GRE JANUARY 2019

PROJECT ID: 6505-03-71

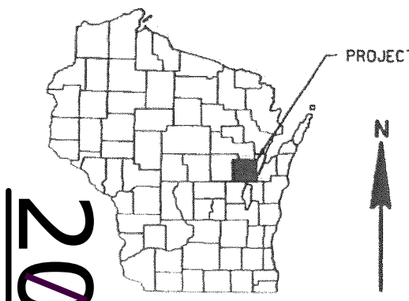
WITH: N/A

COUNTY: OUTAGAMIE

ORDER OF SHEETS

Section No.	1	Title
Section No.	2	Typical Sections and Details (Included Erosion Control)
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 = 174



20

DESIGN DESIGNATION

A.A.D.T.	(2019)	=	2,500
A.A.D.T.	(2039)	=	2,900
D.H.V.	(K30)	=	300
D.D.		=	60/40
T.	(DHV)	=	4.9
DESIGN SPEED		=	60 MPH / 50 MPH
ESALS		=	360,000

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 (SOPER)
- 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)
- OVERHEAD (OH)
- UTILITY PEDESTAL
- POWER POLE
- TELEPHONE POLE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
6505-03-71	WISC 2019077	1

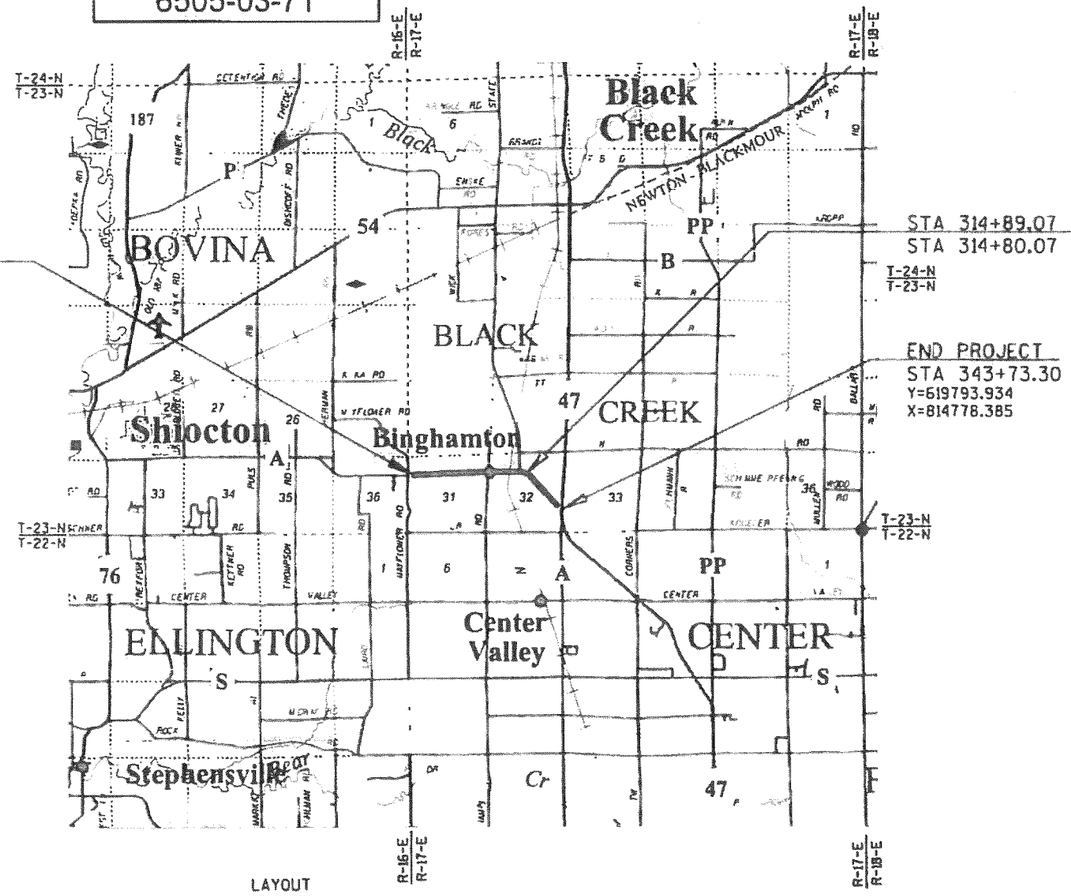
T BLACK CREEK, CTH A

MAYFLOWER RD - STH 47

CTH A

OUTAGAMIE COUNTY

STATE PROJECT NUMBER
6505-03-71



LAYOUT
SCALE 0 2 MILES

TOTAL NET LENGTH OF CENTERLINE = 2.175 MILES

HORIZONTAL POSITIONS SHOWN ON THIS PLAN ARE WISCONSIN COUNTY COORDINATES, OUTAGAMIE COUNTY, NAD83 (2011), IN U.S. SURVEY FEET. VALUES ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES. VERTICAL DATUM NAVD '88.

ACCEPTED FOR
COUNTY OF OUTAGAMIE

7/18/18 (Date)

(Signature)

Highway Commissioner (Title of Official)

PREPARED BY OMNNI ASSOCIATES

OMNNI ASSOCIATES

WISCONSIN
DAVID S. GALE
E-26283
Luxemburg, Wis.
PROFESSIONAL ENGINEER
7/18/18

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PREPARED BY

Surveyor	OMNNI ASSOCIATES
Designer	OMNNI ASSOCIATES
Management Consultant	JT ENGINEERING

APPROVED FOR THE DEPARTMENT

DATE: 7/18/18

Management Consultant Signature

E

FILE NAME : F:\TR\JOBS\E2182A15\CIVIL 3D 2014\SHEETSPLAN\65050371-010101-TI.DWG
LAYOUT NAME - 65050370-010101-T1

PLOT DATE : 7/17/2018 8:39 AM PLOT BY : MATT TOMSOVIC PLOT NAME :

GENERAL NOTES

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

TREES SHOWN WITH AN "X" ON THE PLAN AND PROFILE SHEETS INDICATE GRUBBING UNDER THIS CONTRACT. CLEARING WILL BE BY OTHERS PRIOR TO CONSTRUCTION. NO GRUBBING BEYOND THE R/W OR TLE LIMITS SHALL TAKE PLACE.

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

FILL AS SHOWN ON THE PLANS PERTAINS TO EMBANKMENTS CONSTRUCTED FROM COMMON OR BORROW EXCAVATION. THE ALLOWANCE USED FOR EXPANDING THE FILLS TO COMPUTE THE VOLUME OF MATERIAL REQUIRED IS 25 PERCENT. ALL FILL VOLUMES SHOWN ARE THE ACTUAL VOLUMES.

ALL DISTURBED AREAS NOT OTHERWISE SURFACED ARE TO BE TOPSOILED, FERTILIZED, SEEDED AND MULCHED. DISTURBED AREAS ADJACENT TO LAWNS SHALL BE SEEDED WITH MIXTURE NO. 40, WETLANDS AND WETLAND DITCH BOTTOMS SHALL BE SEEDED WITH SEED MIX NO. 60, AND ALL OTHER AREAS SHALL BE SEEDED WITH MIXTURE NO. 10.

INLET AND DISCHARGE ELEVATIONS FOR DRAINAGE STRUCTURES SHOWN ARE APPROXIMATE AND SHALL BE VERIFIED BY THE ENGINEER IN THE FIELD.

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

THE EXACT LOCATIONS OF ALL EROSION CONTROL ITEMS SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD.

CURB AND GUTTER RADII ARE SHOWN TO THE BACK OF CURB.

CURB HEIGHTS AT THE ENDS OF CURB AND GUTTER SHALL BE TAPERED FROM 6 TO 0 INCHES IN 6 FEET, WHERE APPLICABLE.

WHERE SLOPE INTERCEPT LINES FALL OUTSIDE OF THE EXISTING RIGHT-OF-WAY, TEMPORARY INTERESTS TO ACCOMPLISH CONSTRUCTION WORK HAVE BEEN OBTAINED. THESE RIGHTS ARE EXTENDED TO THE CONTRACTOR.

WETLAND AREAS ARE SHOWN ON THE PLANS, CONTRACTOR SHALL LIMIT CONSTRUCTION ACTIVITIES TO WORK WITHIN THE SLOPE INTERCEPTS IN THE WETLAND AREAS.

A BUTT JOINT SHALL BE PLACED AT ALL LOCATION WHERE NEW PAVEMENT IS TO MATCH EXISTING PAVEMENT. ALL BUTT JOINTS SHALL BE SAWCUT OR REMOVED AS APPROVED BY THE ENGINEER TO PROVIDE A VERTICAL FACE.

ORDER OF "SECTION 2" SHEETS

SHEET TITLE

GENERAL NOTES
PROJECT OVERVIEW
TYPICAL SECTIONS
CONSTRUCTION DETAILS
EROSION CONTROL PLAN
STORM SEWER PLAN
PERMANENT SIGNING PLAN
PAVEMENT MARKING PLAN
TRAFFIC CONTROL PLAN
DETOUR SIGNAGE

UTILITIES

ELECTRIC

WE ENERGIES
SHANE BRUHNKE
800 S LYNNDALE DR
APPLETON, WI 54914
TEL: 920-380-3450
EMAIL: Shane.bruhnke@we-energies.com

COMMUNICATION

CENTURYLINK
TIM KROEZE
19 W FOND DU LAC ST
RIPON, WI 54971
TEL: 920-748-8491
CELL: 920-219-0112
EMAIL: Tim.kroeze@centurylink.com

AT&T
JOE KASSAB
205 SOUTH JEFFERSON ST
GREEN BAY, WI 54301
TEL: 920-433-4200
CELL: 920-202-4002
EMAIL: Jk572@att.com

OTHER CONTACTS

DNR LIAISON

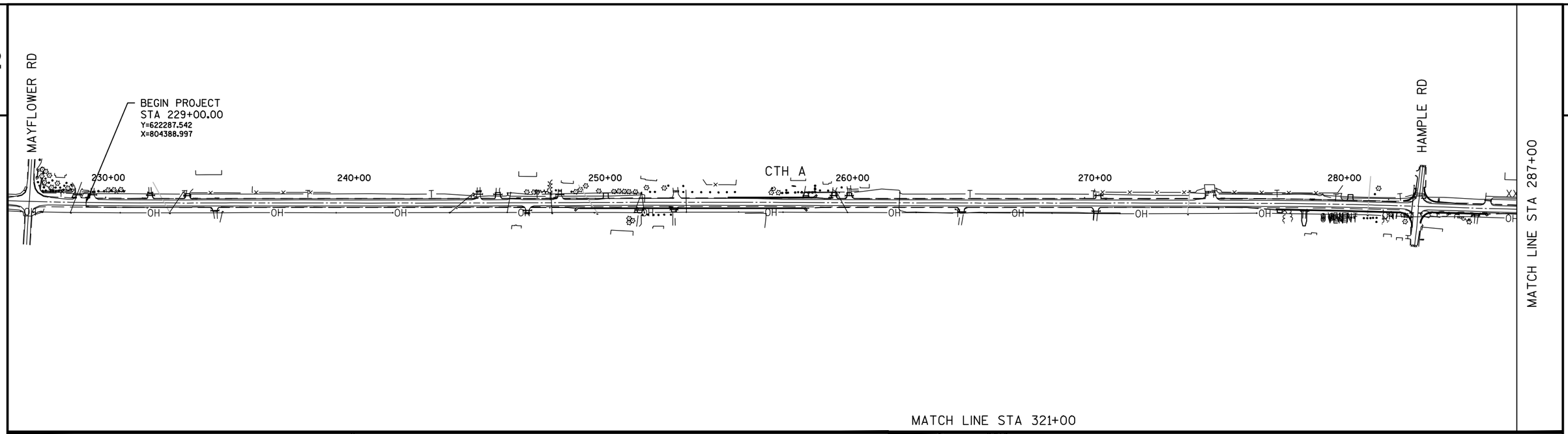
WI DEPARTMENT OF NATURAL RESOURCES
MATT SCHAEVE
2984 SHAWANO AVE
GREEN BAY, WI 54313
TEL: 920-366-1544
EMAIL: Matthew.schaeve@wisconsin.gov

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

RUNOFF COEFFICIENT TABLE

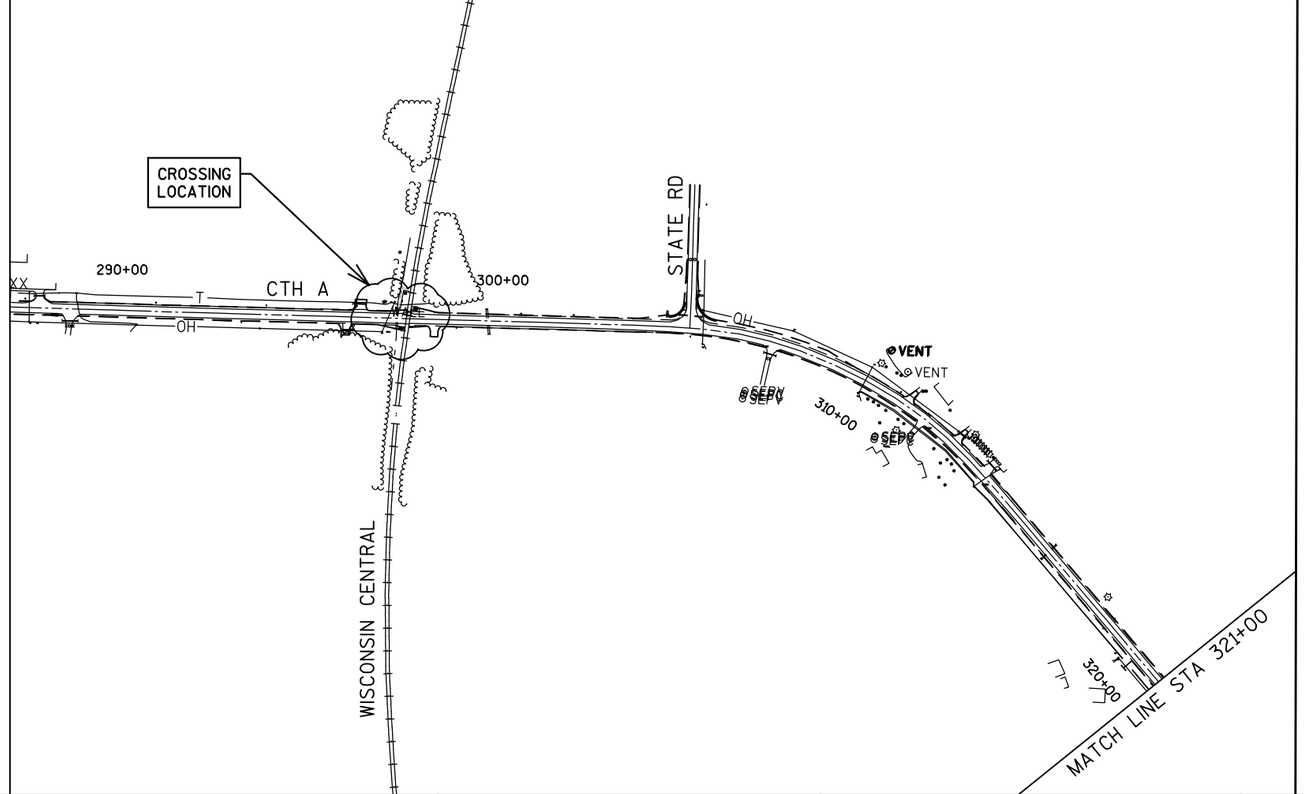
	HYDROLOGIC SOIL GROUP											
	A			B			C			D		
	SLOPE RANGE (PERCENT)			SLOPE RANGE (PERCENT)			SLOPE RANGE (PERCENT)			SLOPE RANGE (PERCENT)		
LAND USE:	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER
ROW CROPS	0.08	0.16	0.22	0.12	0.20	0.27	0.15	0.24	0.33	0.19	0.28	0.38
	0.22	0.30	0.38	0.26	0.34	0.44	0.30	0.37	0.50	0.34	0.41	0.56
MEDIAN STRIP - TURF	0.19	0.20	0.24	0.19	0.22	0.26	0.20	0.23	0.30	0.20	0.25	0.30
	0.24	0.26	0.30	0.25	0.28	0.33	0.26	0.30	0.37	0.27	0.32	0.40
SIDE SLOPE - TURF			0.25			0.27			0.28			0.30
			0.32			0.34			0.36			0.38
PAVEMENT:												
ASPHALT	.70 - .95											
CONCRETE	.80 - .95											
BRICK	.70 - .80											
DRIVES, WALKS	.75 - .85											
ROOFS	.75 - .95											
GRAVEL ROADS, SHOULDERS	.40 - .60											

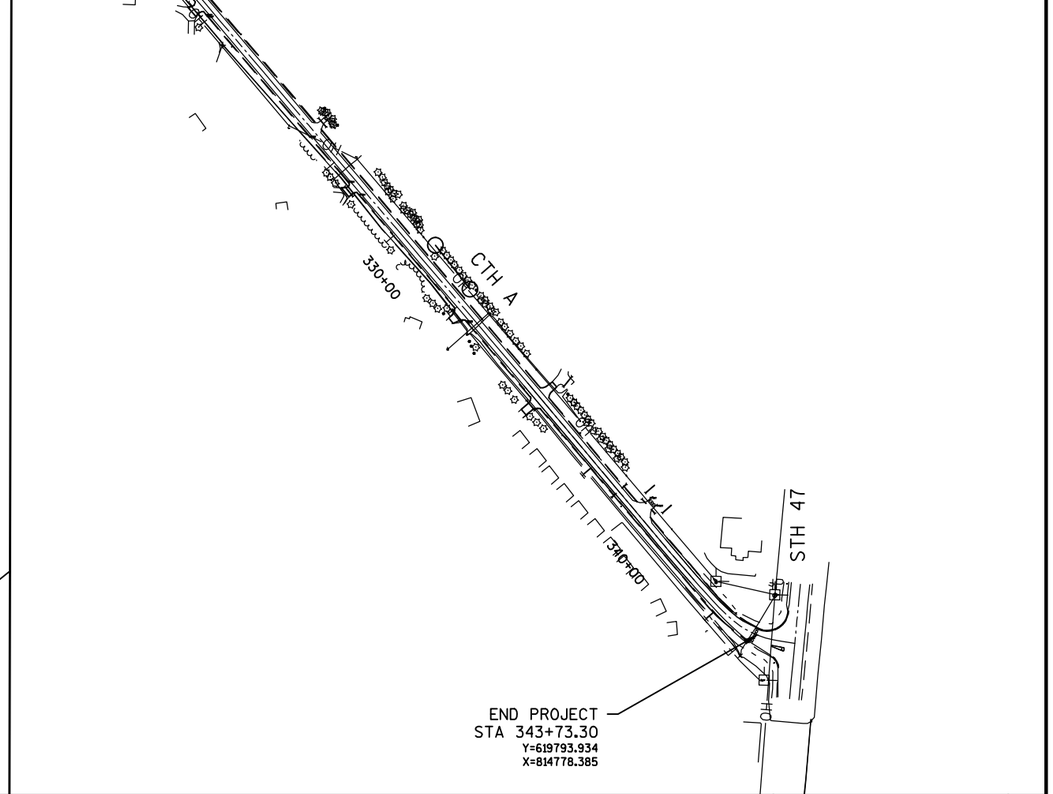
TOTAL PROJECT AREA = 24.96 ACRES
TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = 21.97 ACRES



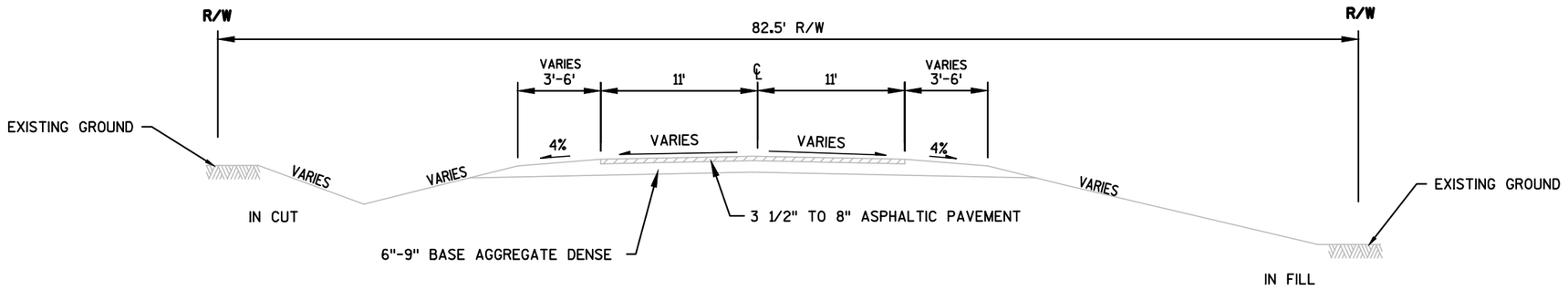
2

MATCH LINE STA 321+00

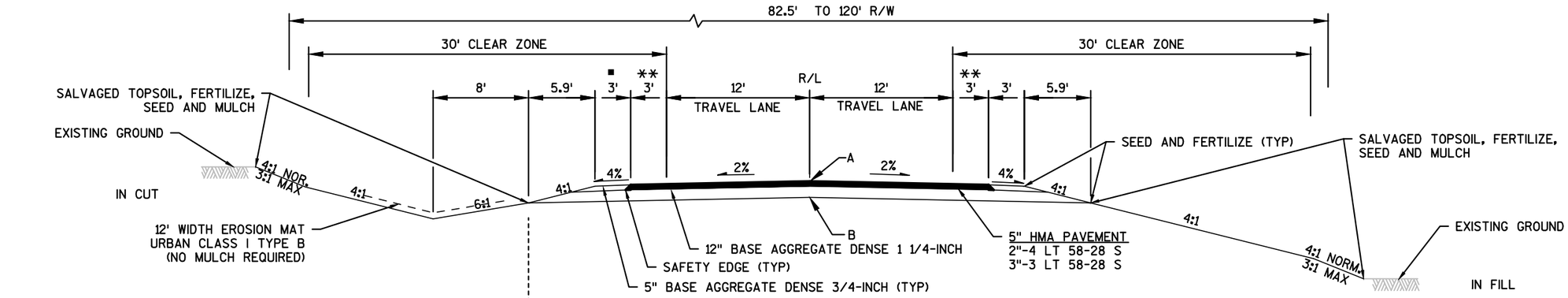




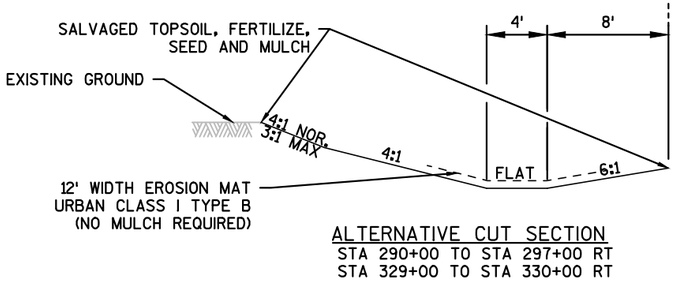
PROJECT NO: 6505-03-71	HWY: CTH A	COUNTY: OUTAGAMIE	PROJECT OVERVIEW	SHEET 3	E



TYPICAL EXISTING SECTION CTH A
STA 229+00 TO STA 343+73.30



TYPICAL FINISHED SECTION CTH A
STA 229+00 TO STA 343+73.30 * ▲



ALTERNATIVE CUT SECTION
STA 290+00 TO STA 297+00 RT
STA 329+00 TO STA 330+00 RT

NOTE A; POINT REFERRED TO ON PROFILE.
NOTE B; POINT REFERRED TO ON CROSS SECTIONS.

* SEE "TYPICAL FINISHED CURB AND GUTTER HALF SECTION CTH A"
FOR: STA 249+00 TO STA 258+00 RT
STA 255+00 TO STA 258+40 LT
STA 277+20 TO STA 282+20 RT
STA 283+15 TO STA 285+60 RT

*SEE "TYPICAL FINISHED SUPERELEVATED SECTION CTH A"
FOR: STA 303+02.81 TO STA 315+41.45
STA 341+67.61 TO sta 343+73.30

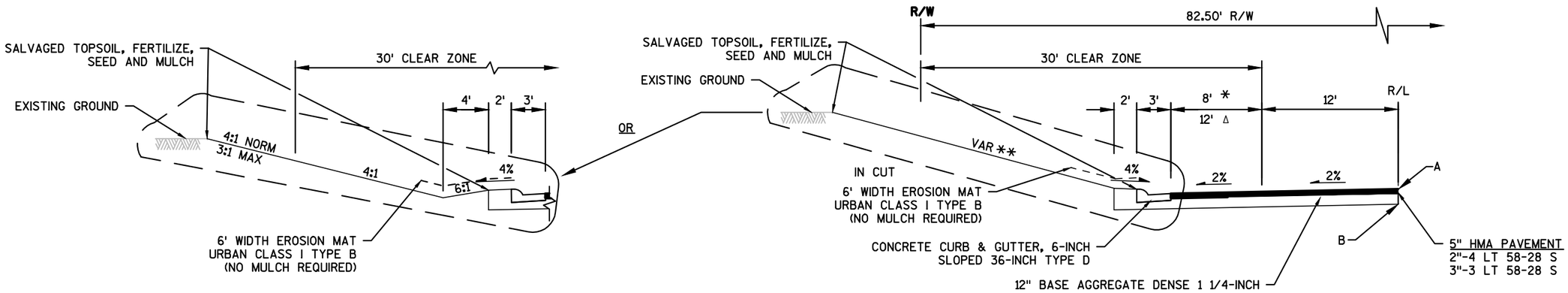
** VARIABLE 3' TO 8.31' AT RAILROAD (SEE CONSTRUCTION DETAIL)

▲ STA 229+00 - 255+00 REQUIRES A VERTICAL LONGITUDINAL JOINT AT THE REFERENCE LINE IN THE SURFACE LAYER TO ACCOMMODATE THE PLACEMENT OF RUMBLE STRIPS.

■ STA 250+00 - 255+00 LT REQUIRES A 6' PAVED, 0' GRAVEL SHOULDER

PROJECT NO: 6505-03-71	HWY: CTH A	COUNTY: OUTAGAMIE	TYPICAL SECTIONS	SHEET 4	E

FILE NAME : F:\TR\JOBS\E2182A15\CIVIL 3D 2014\SHEETSPLAN\65050371-020301-TS.DWG
65050370-020301-ts
PLOT DATE : 7/17/2018 8:51 AM PLOT BY : MATT TOMSOVIC PLOT NAME : PLOT SCALE : 1 IN:10 FT
WISDOT/CADDS SHEET 42

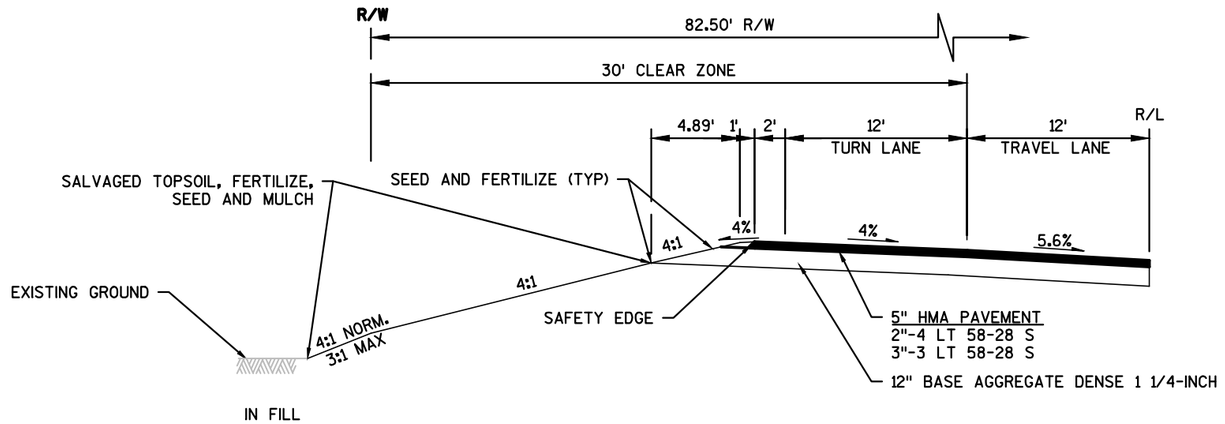


TYPICAL FINISHED CURB AND GUTTER HALF SECTION CTH A

STA 249+00 TO STA 258+00 RT *
STA 255+00 TO STA 258+40 LT *
STA 277+20 TO STA 282+20 RT Δ
STA 283+15 TO STA 285+60 RT *

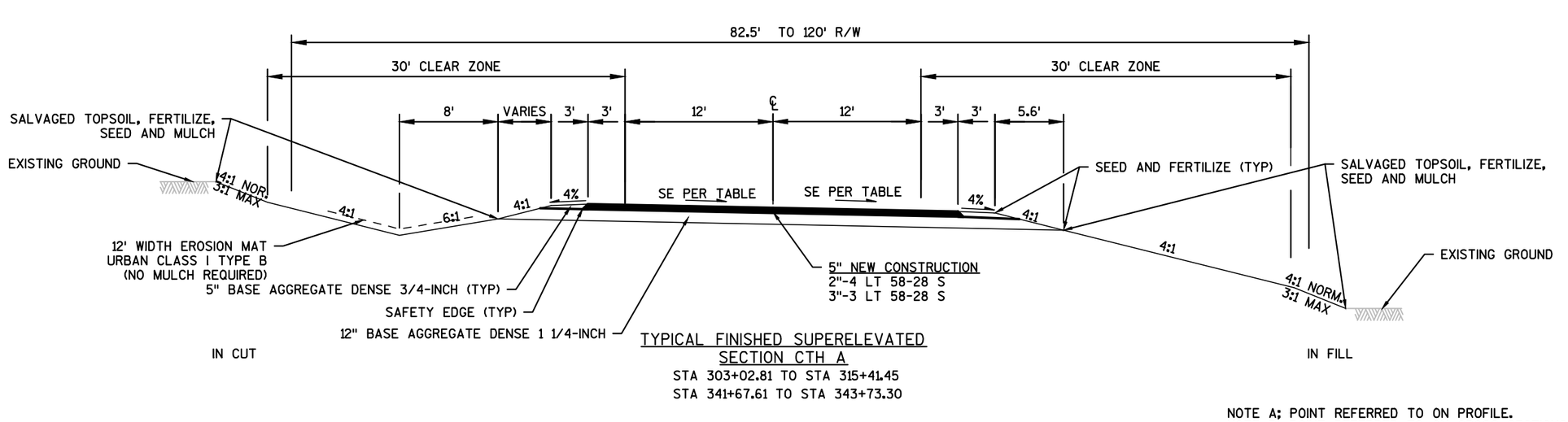
NOTE A; POINT REFERRED TO ON PROFILE.
NOTE B; POINT REFERRED TO ON CROSS SECTIONS.

** VARIABLE, SEE CROSS SECTIONS.



TYPICAL FINISHED HALF SECTION
RIGHT TURN LANE
STA 305+70 TO STA 308+70

2

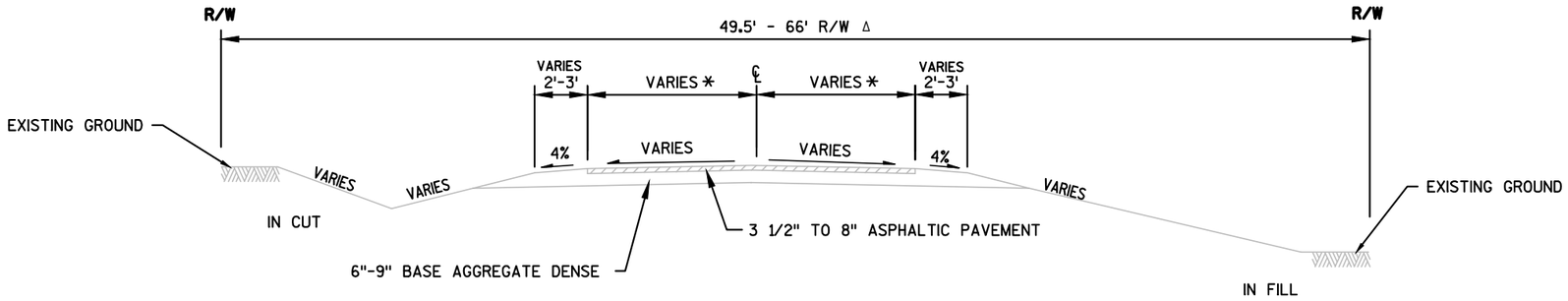


TYPICAL FINISHED SUPERELEVATED SECTION CTH A

STA 303+02.81 TO STA 315+41.45
STA 341+67.61 TO STA 343+73.30

NOTE A; POINT REFERRED TO ON PROFILE.
NOTE B; POINT REFERRED TO ON CROSS SECTIONS.

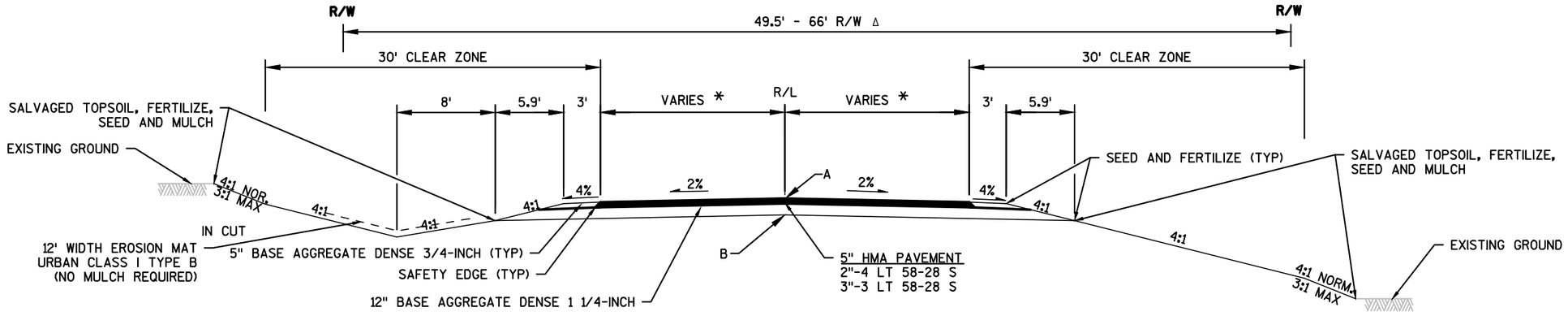
2



TYPICAL EXISTING SECTION SIDEROADS

HAMPLE ROAD NORTH (10')*
HAMPLE ROAD SOUTH (11')*
STATE ROAD (12')*

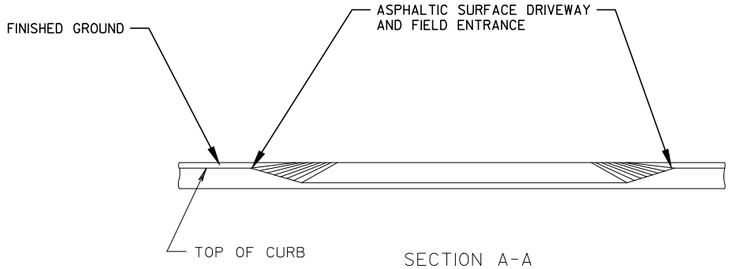
Δ; R/W WIDTH 49.5' HAMPLE RD; 66' STATE RD.



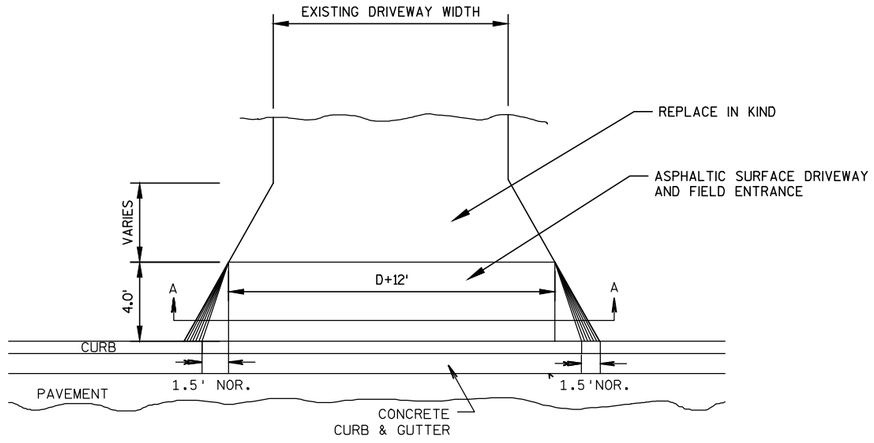
TYPICAL FINISHED SECTION SIDEROADS

HAMPLE ROAD NORTH (10')*
HAMPLE ROAD SOUTH (11')*
STATE ROAD (12')*

NOTE A; POINT REFERRED TO ON PROFILE.
NOTE B; POINT REFERRED TO ON CROSS SECTIONS.
Δ; R/W WIDTH 49.5' HAMPLE RD; 66' STATE RD.



SECTION A-A

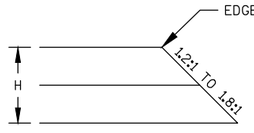


PLAN VIEW

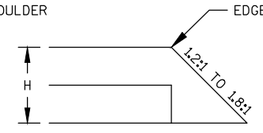
D=DRIVEWAY WIDTH
30' FE
20' P.E. NORMAL, 24'MAX
28' C.E.NORMAL, 35'MAX

RURAL DRIVEWAY INTERSECTION WITH CURB AND GUTTER DETAIL

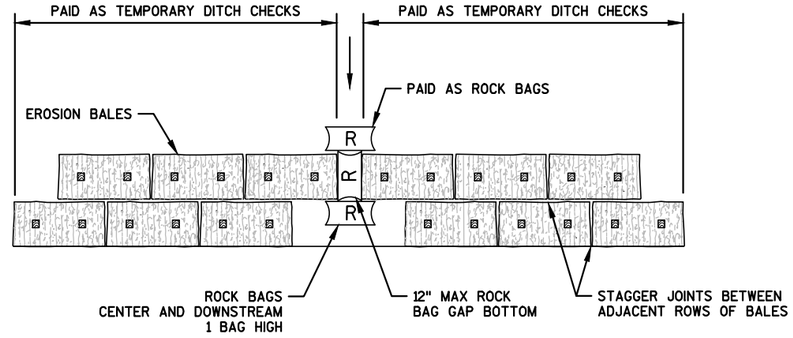
CONSTRUCTED WITH FINAL TWO LAYER



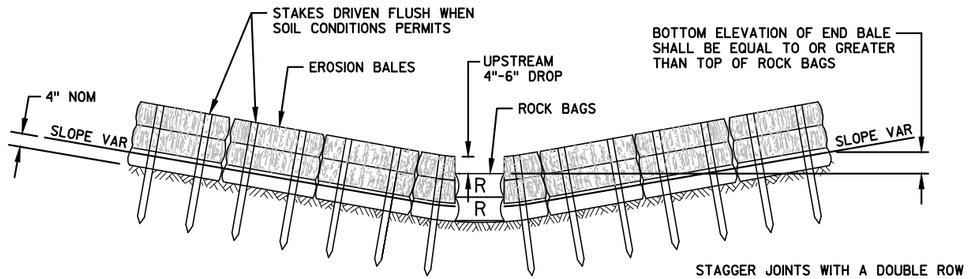
CONSTRUCTED WITH FINAL LAYER



SAFETY EDGE FOR "H" 5" OR LESS



PLAN VIEW

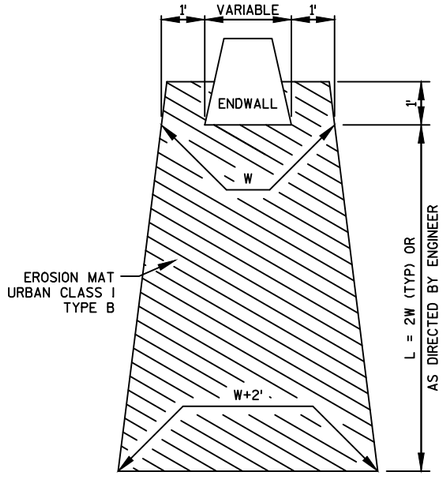


FRONT ELEVATION

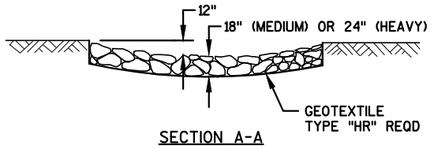
GENERAL NOTES

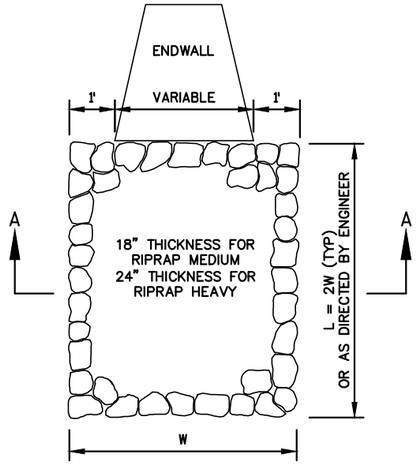
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS.

TEMPORARY DITCH CHECKS WITH ROCK BAG RELIEF

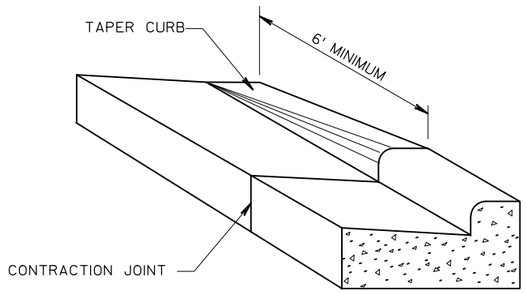


EROSION MAT TREATMENT AT CULVERTS

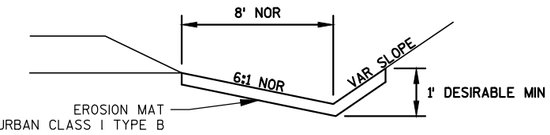




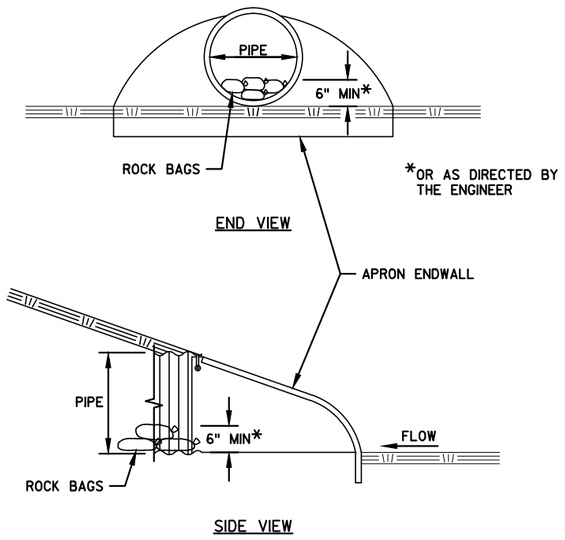
RIPRAP TREATMENT AT CULVERTS



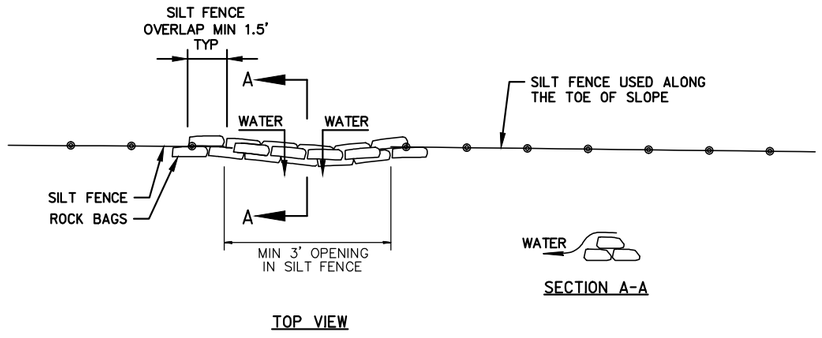
DETAIL OF CURB & GUTTER TERMINI



EROSION MAT DETAIL FOR DITCHES

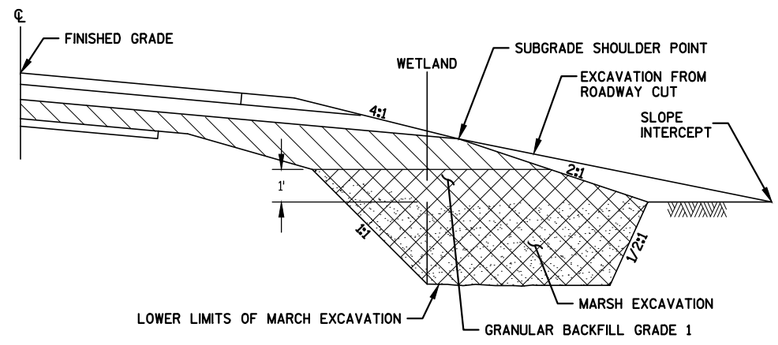


CULVERT PIPE CHECKS



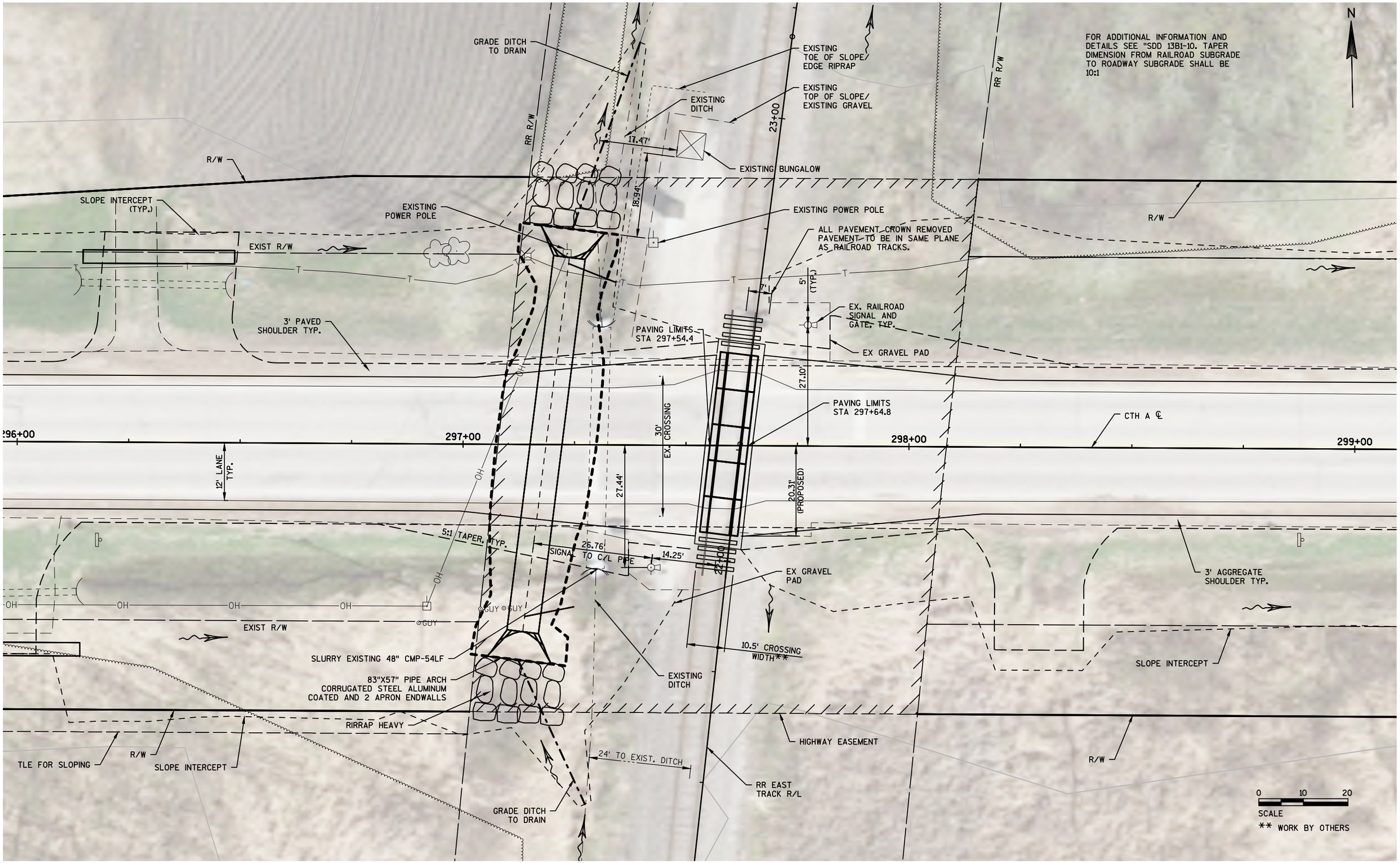
ROCK BAGS USED FOR SILT FENCE RELIEF DETAIL

PAID AS ROCK BAGS



TYPICAL MARSH EXCAVATION FOR RECONSTRUCTION

2

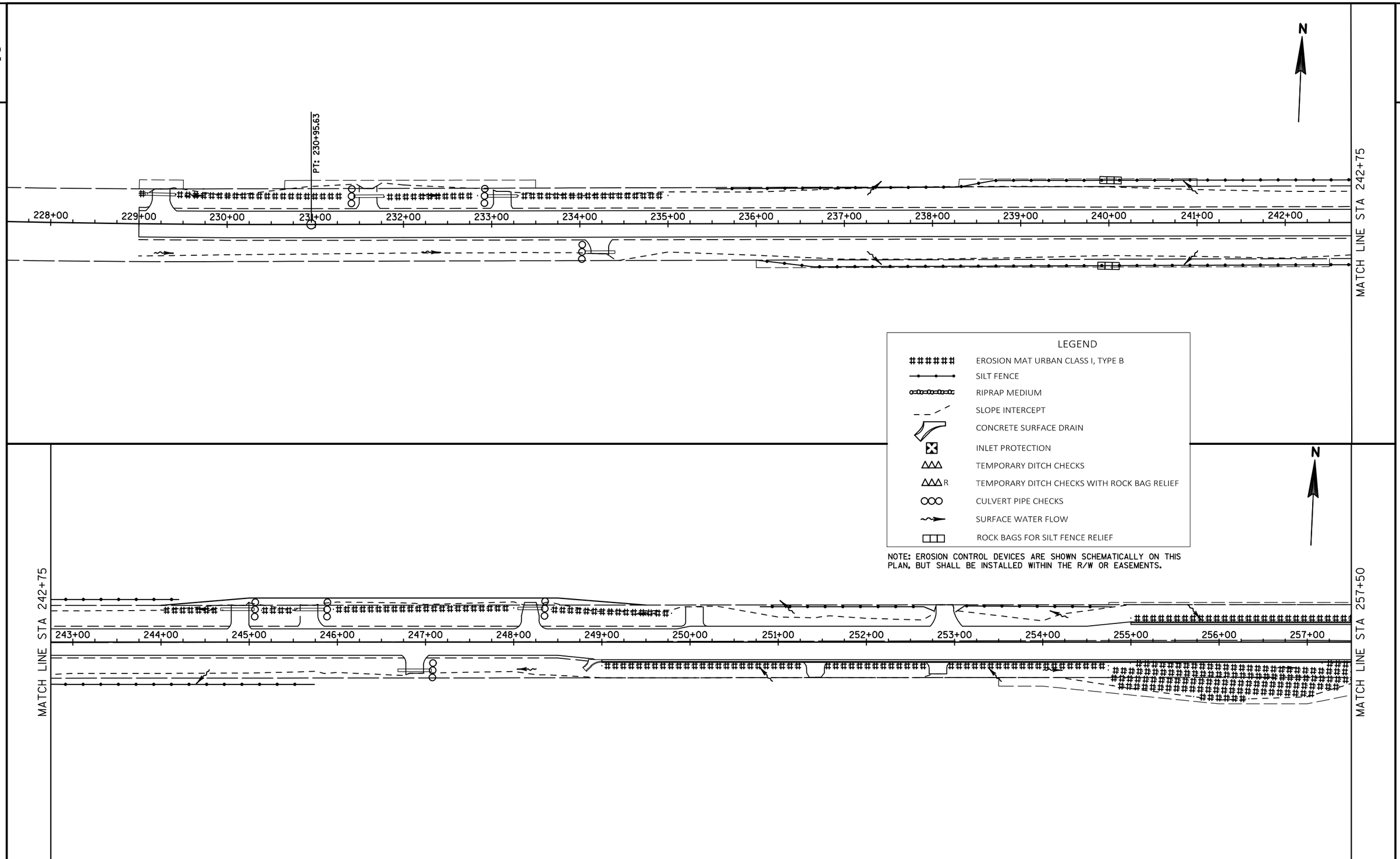


PROJECT NO:6505-03-71	HWY: CTH A	COUNTY:OUTAGAMIE	CONSTRUCTION DETAILS - RAILROAD CROSSING	SHEET 10	E

2

CTH A SUPERELEVATION STATION TABLE

Station	Description	LEFT LANE SLOPE	RIGHT LANE SLOPE
303+02.81'	End Normal Shoulder	-2.00%	-2.00%
303+02.81'	End Normal Crown	-2.00%	-2.00%
303+50.67'	Level Crown	0.00%	-2.00%
303+98.53'	Reverse Crown	2.00%	-2.00%
304+84.67'	Begin Full Super	5.60%	-5.60%
313+68.59'	End Full Super	5.60%	-5.60%
314+54.74'	Reverse Crown	2.00%	-2.00%
314+93.59'	Level Crown	0.00%	-2.00%
315+41.45'	Begin Normal Crown	-2.00%	-2.00%
315+41.45'	Begin Normal Shoulder	-2.00%	-2.00%
341+67.61'	End Normal Shoulder	-2.00%	-2.00%
341+67.61'	End Normal Crown	-2.00%	-2.00%
342+01.90'	Level Crown	-2.00%	0.00%
342+36.18'	Reverse Crown	-2.00%	2.00%
342+61.90'	Begin Full Super	-3.50%	3.50%
343+73.30'	Manual station	-4.58%	1.65%
344+53.84'	End Full Super	-3.50%	3.50%
344+79.56'	Reverse Crown	-2.00%	2.00%
344+86.39'	End Alignment	-2.00%	-2.00%

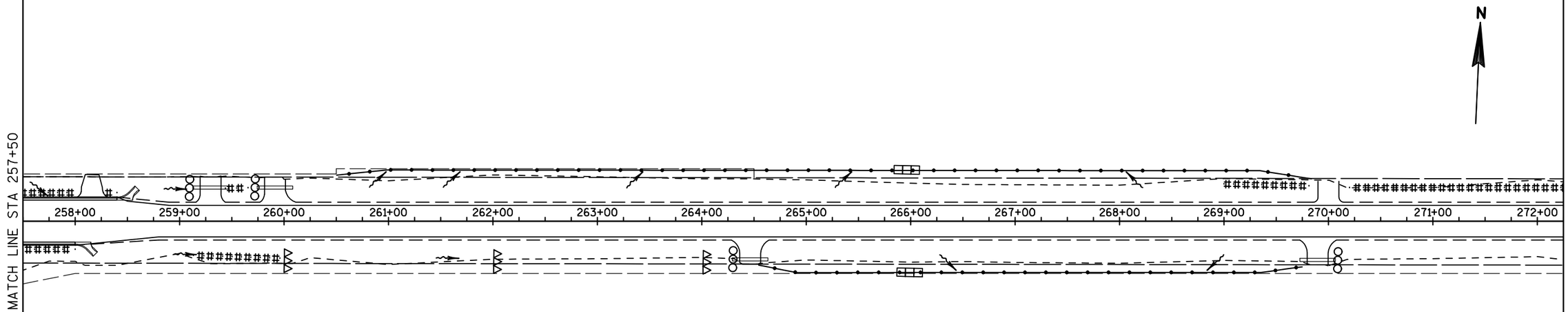


PROJECT NO: 6505-03-71	HWY: CTH A	COUNTY: OUTAGAMIE	EROSION CONTROL	SHEET 12	E

FILE NAME : F:\TR\JOBS\E2182A15\CIVIL 3D 2014\SHEETSPLAN\65050371-022001-EC.DWG
LAYOUT NAME - 65050371-022001-EC

PLOT DATE : 11/6/2018 10:29 AM PLOT BY : JAIRO MAZARIEGOS PLOT NAME : PLOT SCALE : 1 IN:100 FT

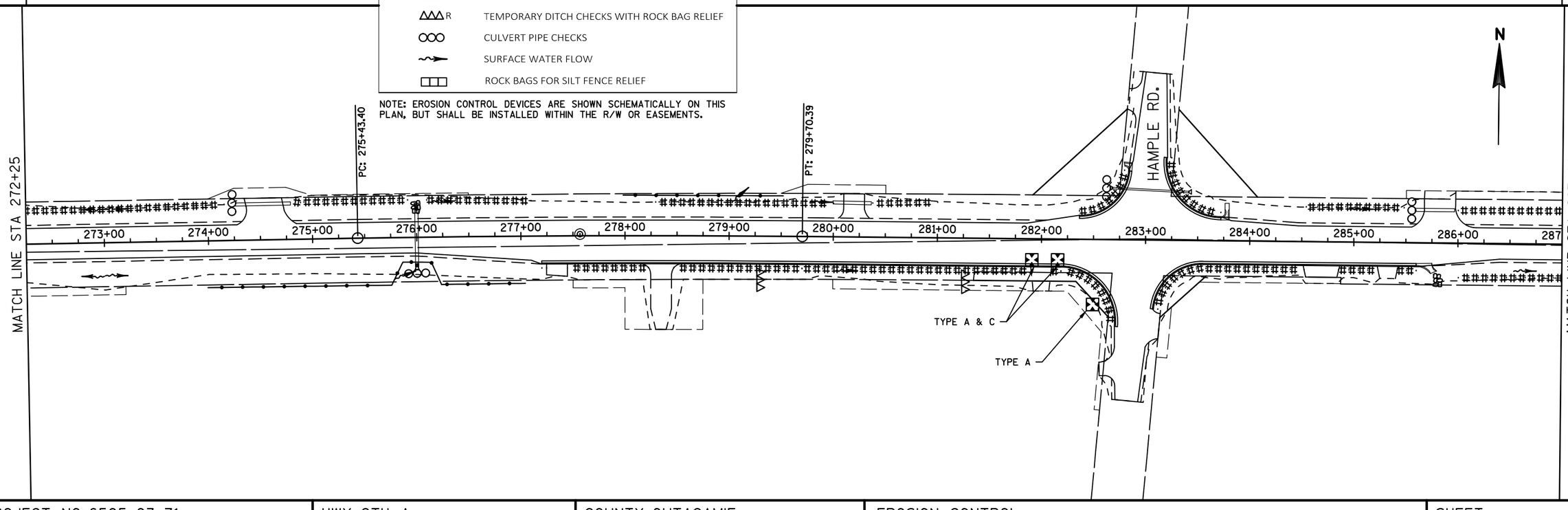
2



LEGEND

- EROSION MAT URBAN CLASS I, TYPE B
- SILT FENCE
- RIPRAP MEDIUM
- SLOPE INTERCEPT
- CONCRETE SURFACE DRAIN
- INLET PROTECTION
- TEMPORARY DITCH CHECKS
- R TEMPORARY DITCH CHECKS WITH ROCK BAG RELIEF
- CULVERT PIPE CHECKS
- SURFACE WATER FLOW
- ROCK BAGS FOR SILT FENCE RELIEF

NOTE: EROSION CONTROL DEVICES ARE SHOWN SCHEMATICALLY ON THIS PLAN, BUT SHALL BE INSTALLED WITHIN THE R/W OR EASEMENTS.



PROJECT NO: 6505-03-71	HWY: CTH A	COUNTY: OUTAGAMIE	EROSION CONTROL	SHEET 13	E

2

2

MATCH LINE STA 287+00

MATCH LINE STA 301+75

+00 288+00 289+00 290+00 291+00 292+00 293+00 294+00 295+00 296+00 297+00 298+00 299+00 300+00 301+00

N

LEGEND

- EROSION MAT URBAN CLASS I, TYPE B
- SILT FENCE
- RIPRAP MEDIUM
- SLOPE INTERCEPT
- CONCRETE SURFACE DRAIN
- INLET PROTECTION
- TEMPORARY DITCH CHECKS
- TEMPORARY DITCH CHECKS WITH ROCK BAG RELIEF
- CULVERT PIPE CHECKS
- SURFACE WATER FLOW
- ROCK BAGS FOR SILT FENCE RELIEF

NOTE: EROSION CONTROL DEVICES ARE SHOWN SCHEMATICALLY ON THIS PLAN, BUT SHALL BE INSTALLED WITHIN THE R/W OR EASEMENTS.

STATE RD.

PC: 304+40.01

302+00 303+00 304+00 305+00 306+00 307+00 308+00 309+00 310+00 311+00 312+00 313+00 314+00 315+00 316+00

PT: 314+13.26

STA BACK = 314+80.07
STA AHEAD = 314+80.07

MATCH LINE STA 301+75

MATCH LINE STA 316+41

EXISTING TREES TO REMAIN. PLACE SILT FENCE ON ROAD SIDE OF TREES.

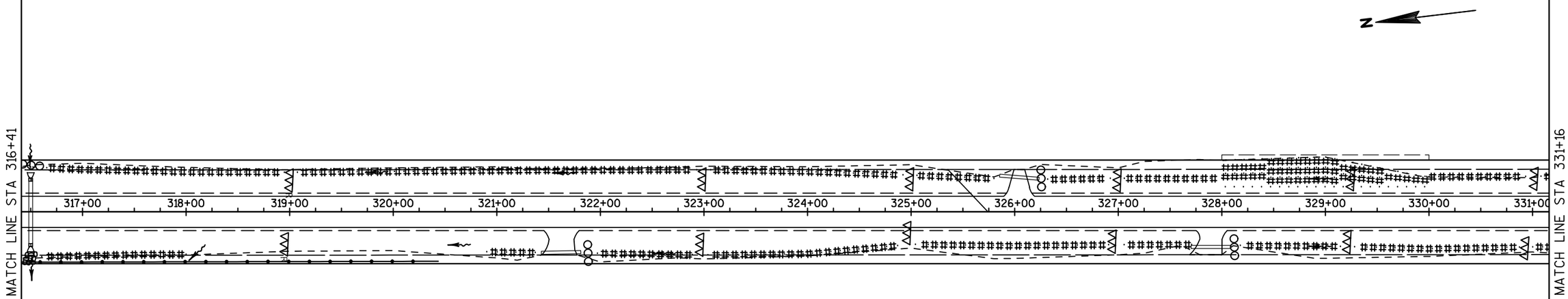
PROJECT NO: 6505-03-71	HWY: CTH A	COUNTY: OUTAGAMIE	EROSION CONTROL	SHEET 14	E

FILE NAME : F:\TR\JOBS\E2182A15\CIVIL 3D 2014\SHEETSPLAN\65050371-022001-EC.DWG
LAYOUT NAME - 65050371-022003-EC

PLOT DATE : 11/6/2018 10:30 AM PLOT BY : JAIRO MAZARIEGOS PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 44

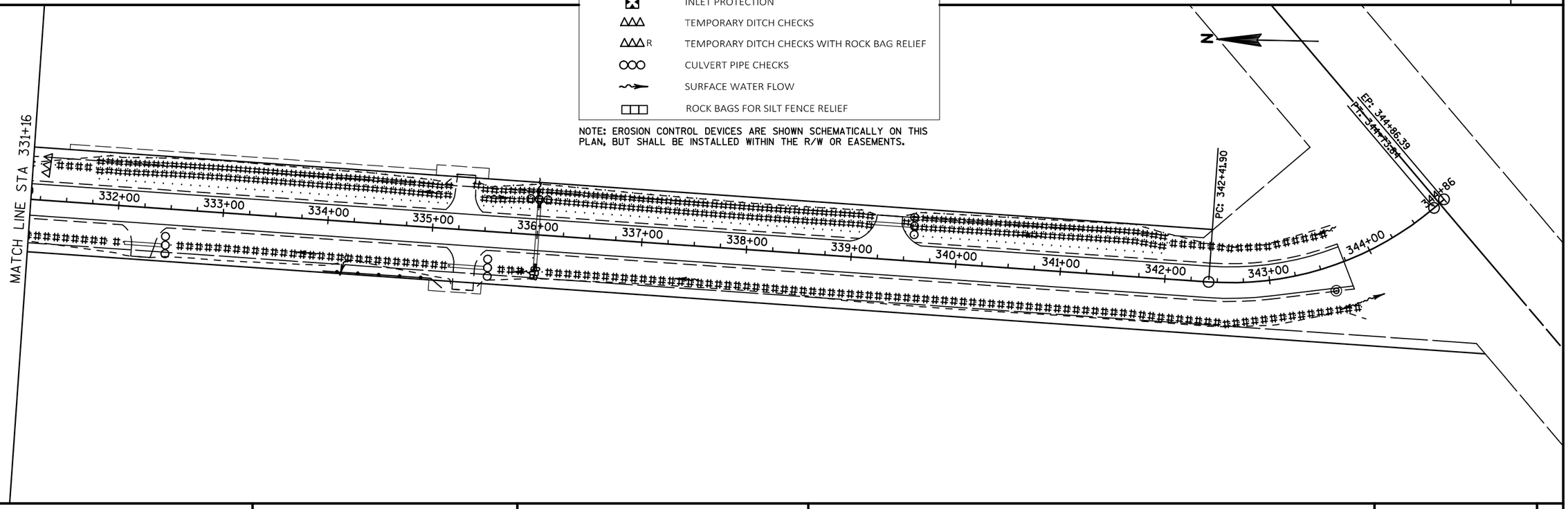
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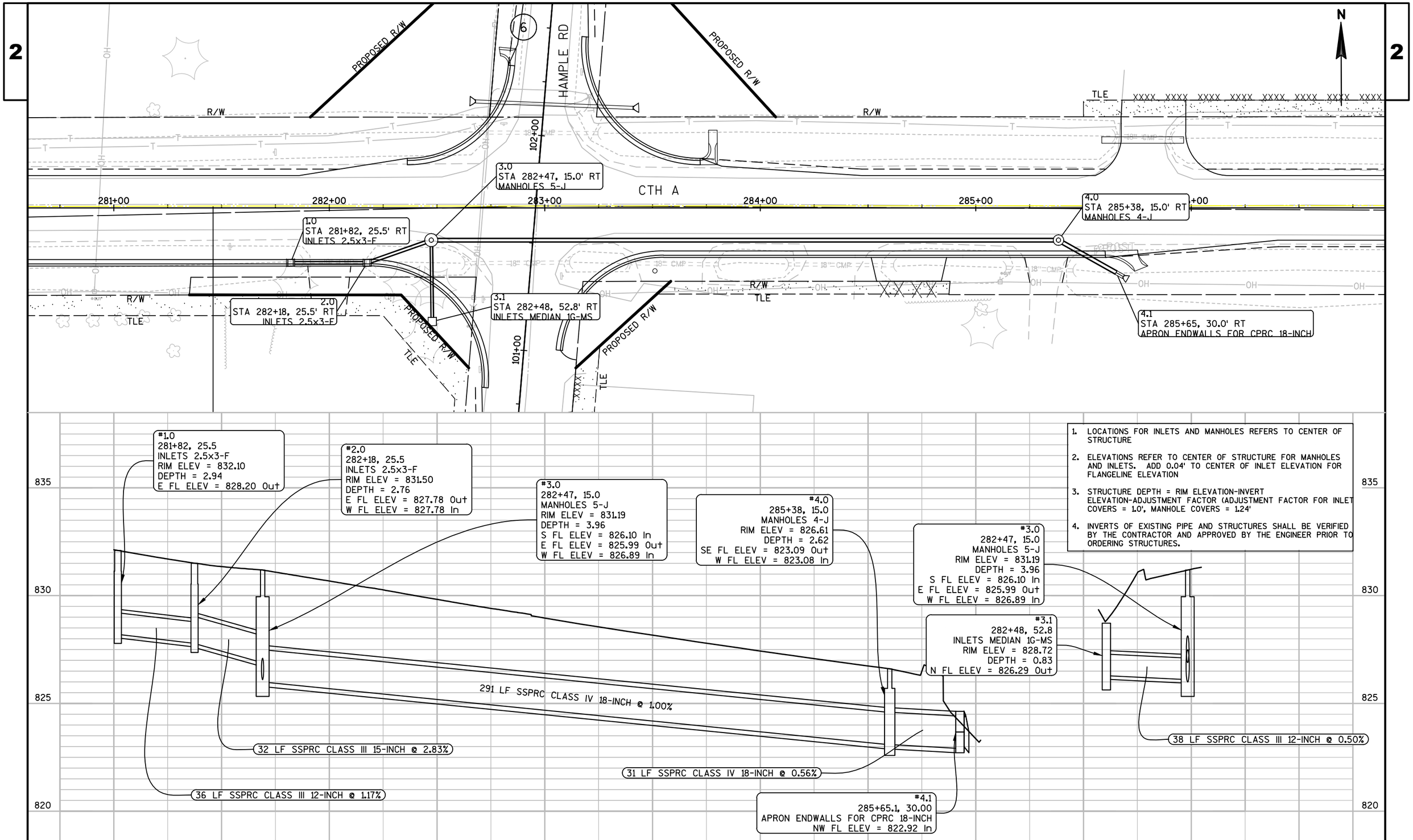
LEGEND

- EROSION MAT URBAN CLASS I, TYPE B
- SILT FENCE
- RIPRAP MEDIUM
- SLOPE INTERCEPT
- CONCRETE SURFACE DRAIN
- INLET PROTECTION
- TEMPORARY DITCH CHECKS
- TEMPORARY DITCH CHECKS WITH ROCK BAG RELIEF
- CULVERT PIPE CHECKS
- SURFACE WATER FLOW
- ROCK BAGS FOR SILT FENCE RELIEF

NOTE: EROSION CONTROL DEVICES ARE SHOWN SCHEMATICALLY ON THIS PLAN, BUT SHALL BE INSTALLED WITHIN THE R/W OR EASEMENTS.

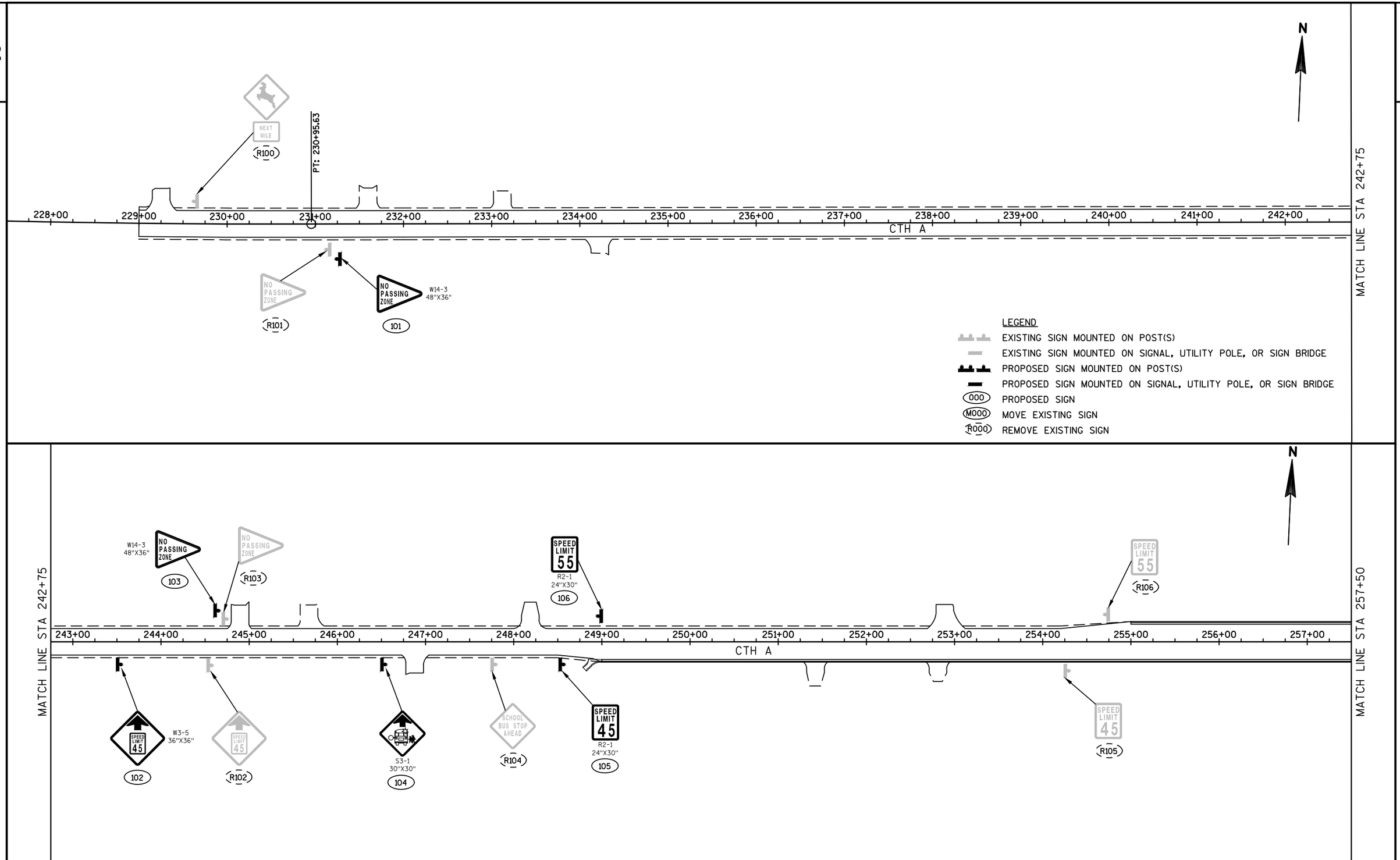


PROJECT NO: 6505-03-71	HWY: CTH A	COUNTY: OUTAGAMIE	EROSION CONTROL	SHEET 15	E



1. LOCATIONS FOR INLETS AND MANHOLES REFERS TO CENTER OF STRUCTURE
2. ELEVATIONS REFER TO CENTER OF STRUCTURE FOR MANHOLES AND INLETS. ADD 0.04' TO CENTER OF INLET ELEVATION FOR FLANGELINE ELEVATION
3. STRUCTURE DEPTH = RIM ELEVATION-INVERT ELEVATION-ADJUSTMENT FACTOR (ADJUSTMENT FACTOR FOR INLET COVERS = 1.0', MANHOLE COVERS = 1.24'
4. INVERTS OF EXISTING PIPE AND STRUCTURES SHALL BE VERIFIED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER PRIOR TO ORDERING STRUCTURES.

PROJECT NO: 6505-03-71	HWY: CTH A	COUNTY: OUTAGAMIE	STORM SEWER	SHEET 16	E



PROJECT NO: 6505-03-71	HWY: CTH A	COUNTY: OUTAGAMIE	PERMANENT SIGNING	SHEET 17	E

2

MATCH LINE STA 257+50

258+00 259+00 260+00 261+00 262+00 263+00 264+00 265+00 266+00 267+00 268+00 269+00 270+00 271+00 272+00

CTH A

N

MATCH LINE STA 272+25

NO PASSING ZONE (R107)

NO PASSING ZONE W14-3 48"X36" (107)

SPEED LIMIT 45 R2-1 24"X30" (108)

BINGHAMTON UNINCORPORATED (R108)

SPEED LIMIT 45

BINGHAMTON UNINCORPORATED I2-3-U 54"X24" (109)

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON SIGNAL, UTILITY POLE, OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON SIGNAL, UTILITY POLE, OR SIGN BRIDGE
- (000) PROPOSED SIGN
- (M000) MOVE EXISTING SIGN
- (R000) REMOVE EXISTING SIGN

2

MATCH LINE STA 272+25

PC: 275+43.40

PT: 279+70.39

273+00 274+00 275+00 276+00 277+00 278+00 279+00 280+00 281+00 282+00 283+00 284+00 285+00 286+00 287

CTH A

N

MATCH LINE STA 287+00

SPEED LIMIT 45 (R112)

SPEED LIMIT 45 R2-1 24"X30" (111)

STOP R1-1 30"X30" (114)

STOP (R113)

HAMPLE RD

DEAD END (R114)

DEAD END W14-1 30"X30" (116)

R109

W2-1 30"X30" (110)

NO PARKING ANY TIME R7-1-L 18"X24" (111A)

(PLACE AT 30° - 45° TO LINE OF TRAFFIC)

NO PARKING (R110)

NO PARKING ANY TIME R7-1-D 18"X24" (111)

NO PARKING ANY TIME R7-1-D 18"X24" (113)

NO PARKING (R112)

COUNTY A

HAMPLE RD

M101

STOP (R115)

STOP R1-1 30"X30" (115)

117

SPEED LIMIT 45 R2-1 24"X30"

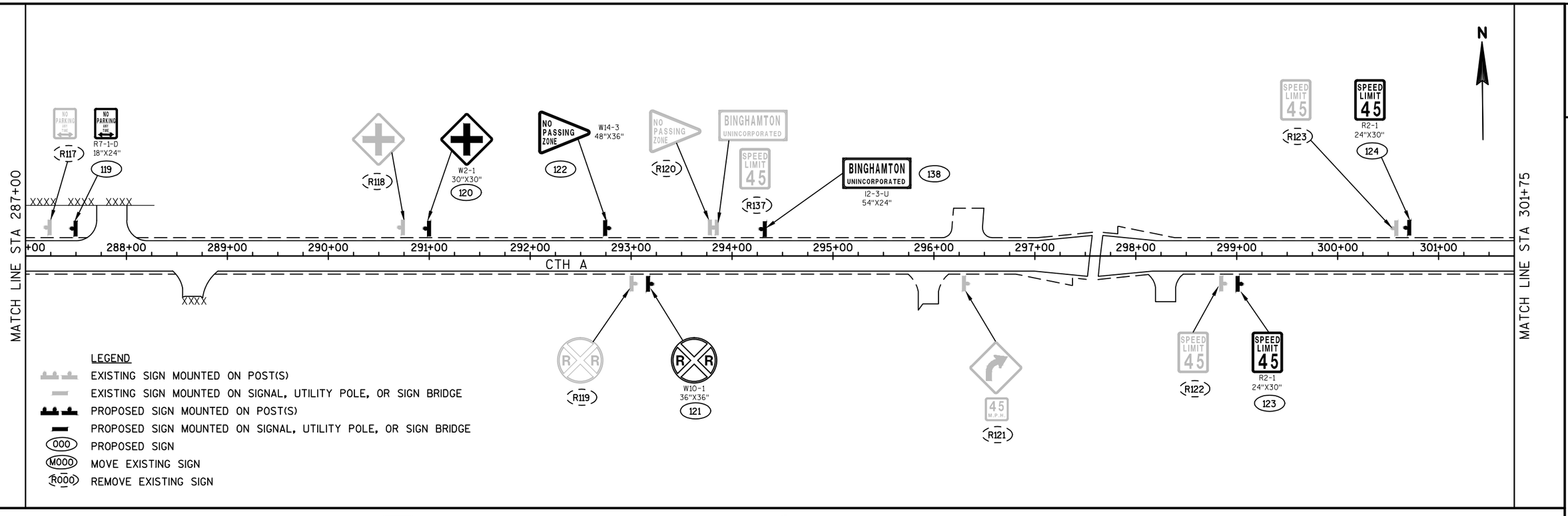
SPEED LIMIT 45

NO PARKING ANY TIME R7-1-D 18"X24" (118)

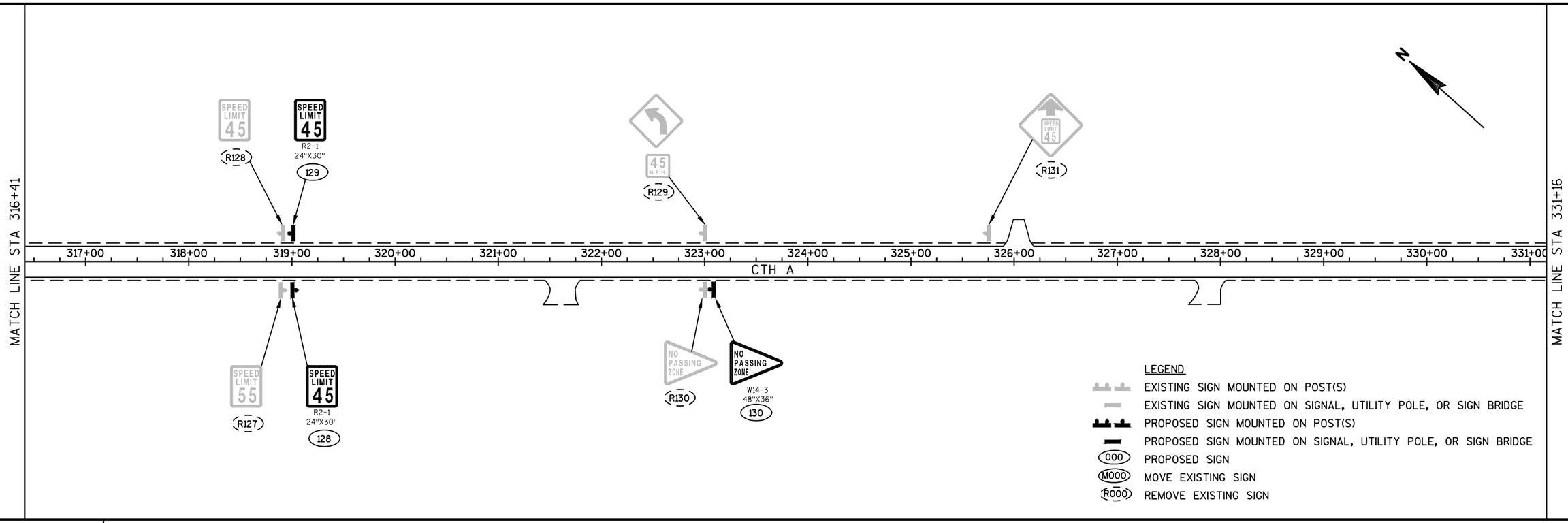
NO PARKING (R116)

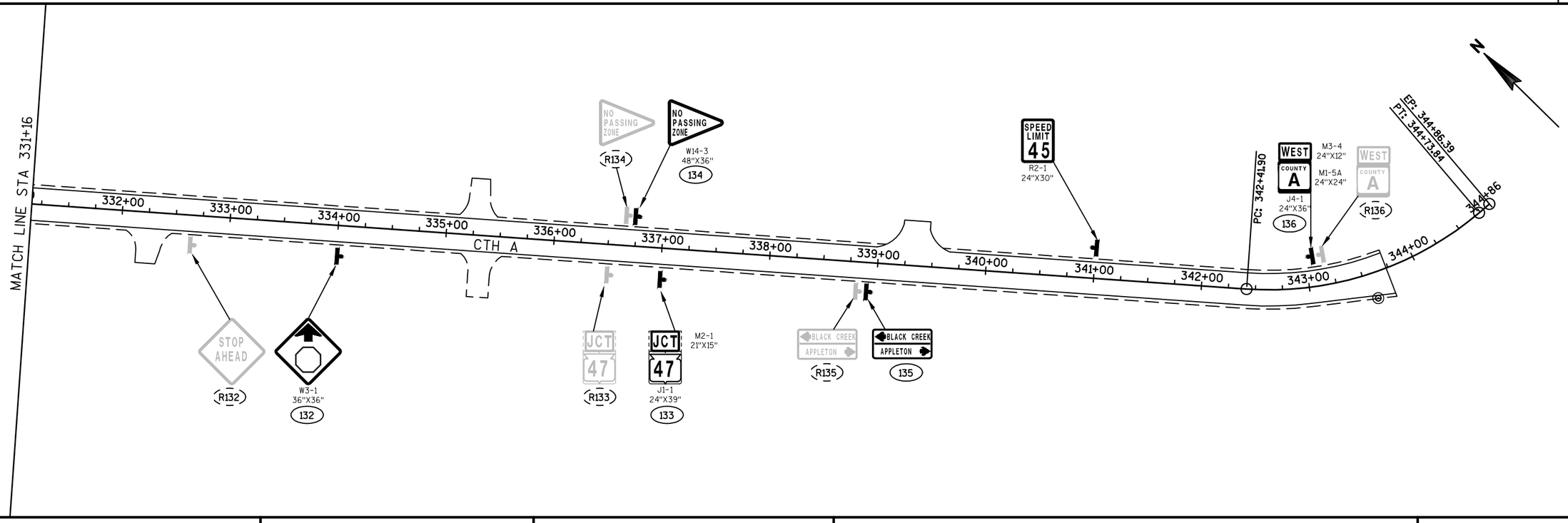
PROJECT NO: 6505-03-71	HWY: CTH A	COUNTY: OUTAGAMIE	PERMANENT SIGNING	SHEET 18	E

2

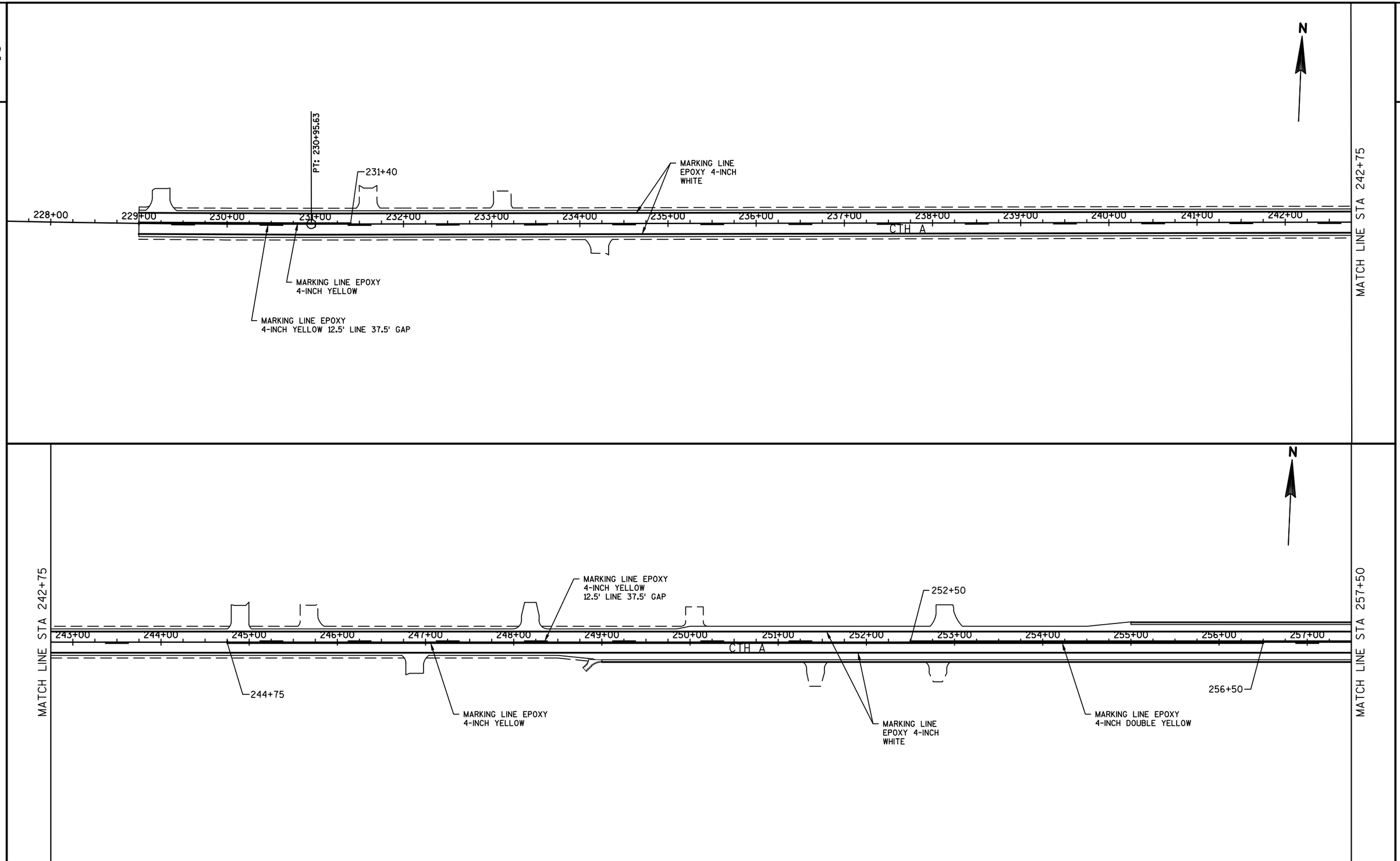


PROJECT NO: 6505-03-71	HWY: CTH A	COUNTY: OUTAGAMIE	PERMANENT SIGNING	SHEET 19	E





PROJECT NO: 6505-03-71	HWY: CTH A	COUNTY: OUTAGAMIE	PERMANENT SIGNING	SHEET 20	E

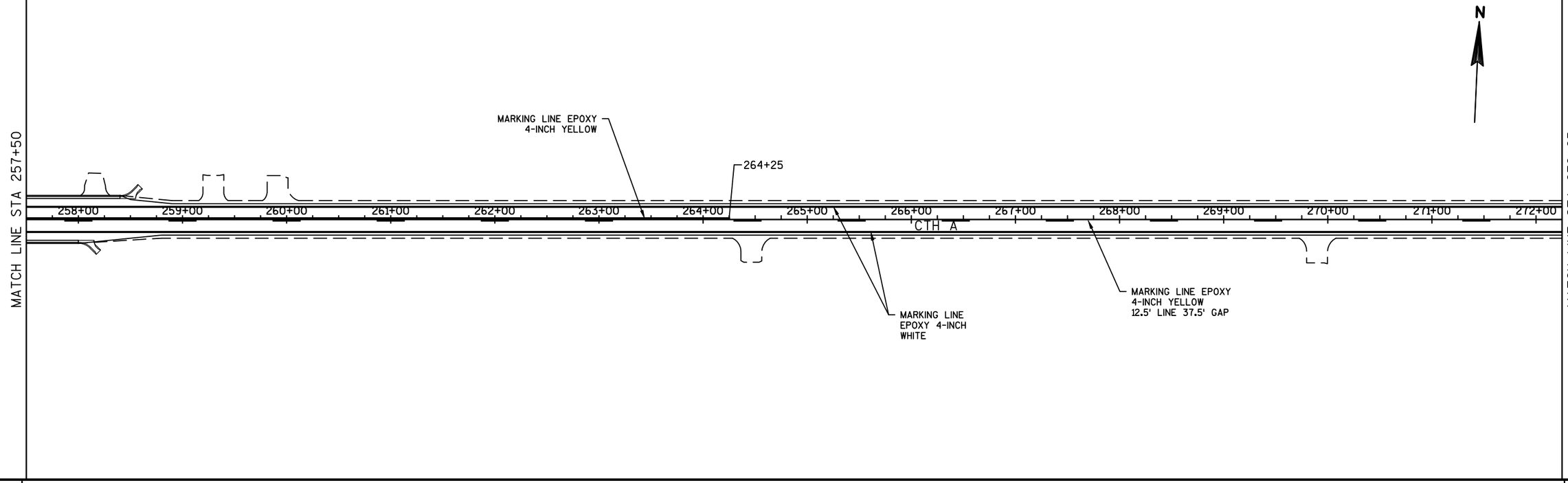


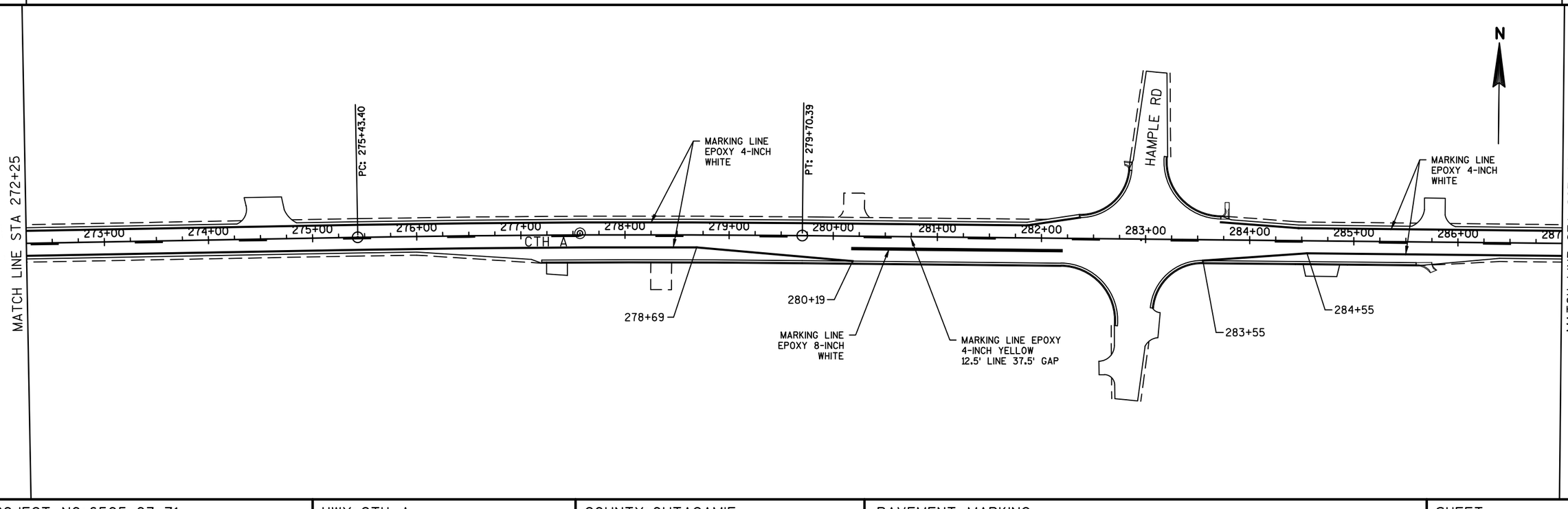
PROJECT NO: 6505-03-71	HWY: CTH A	COUNTY: OUTAGAMIE	PAVEMENT MARKING	SHEET 21	E

FILE NAME : F:\TR\JOBS\E2182A15\CIVIL 3D 2014\SHEETSPLAN\65050371-024501-PM.DWG
LAYOUT NAME - 65050371-022001-PM
65050371-024501-pm
PLOT DATE : 1/12/2018 9:19 AM PLOT BY : MATT BERG PLOT NAME : PLOT SCALE : 1 IN:100 FT

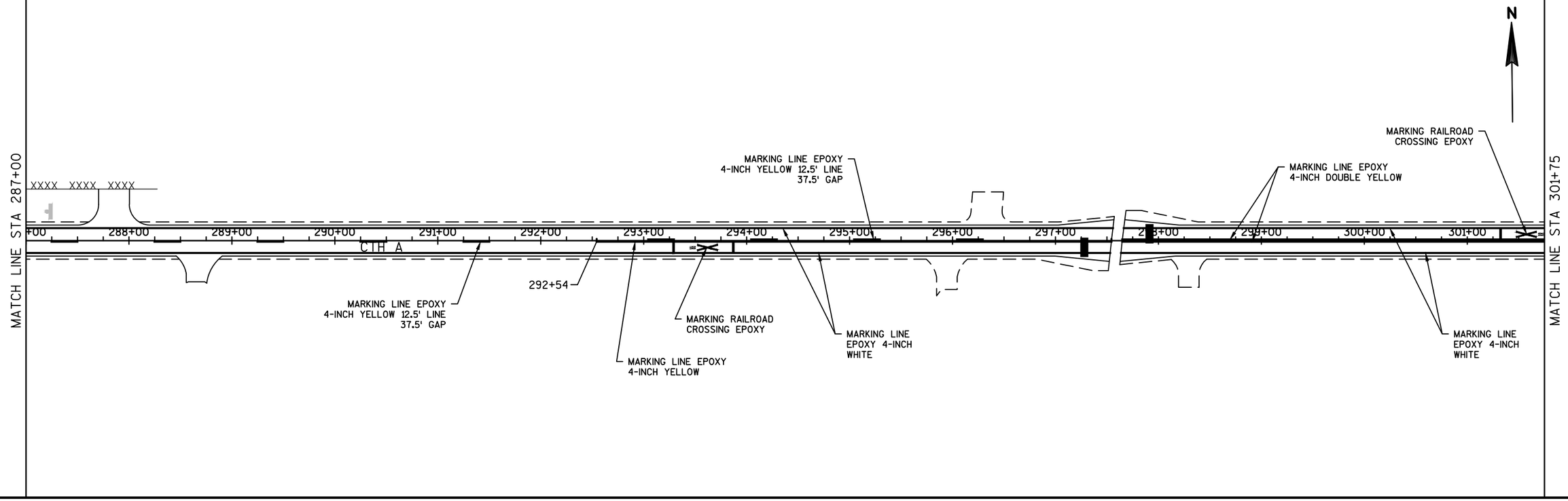
WISDOT/CADDS SHEET 44

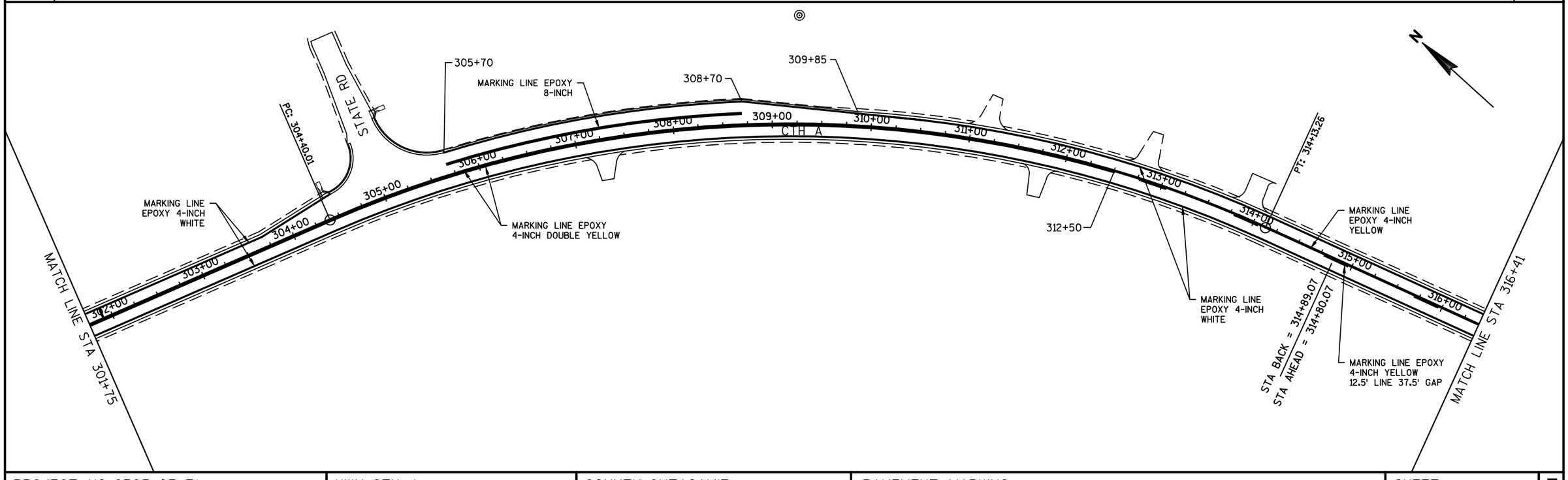
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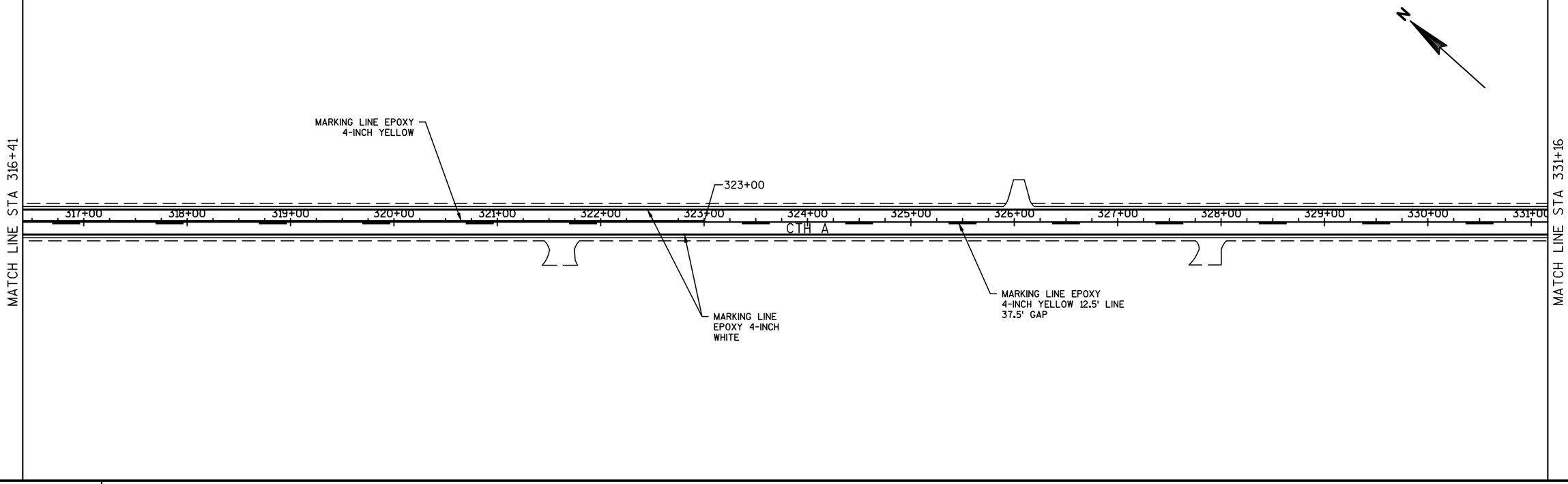


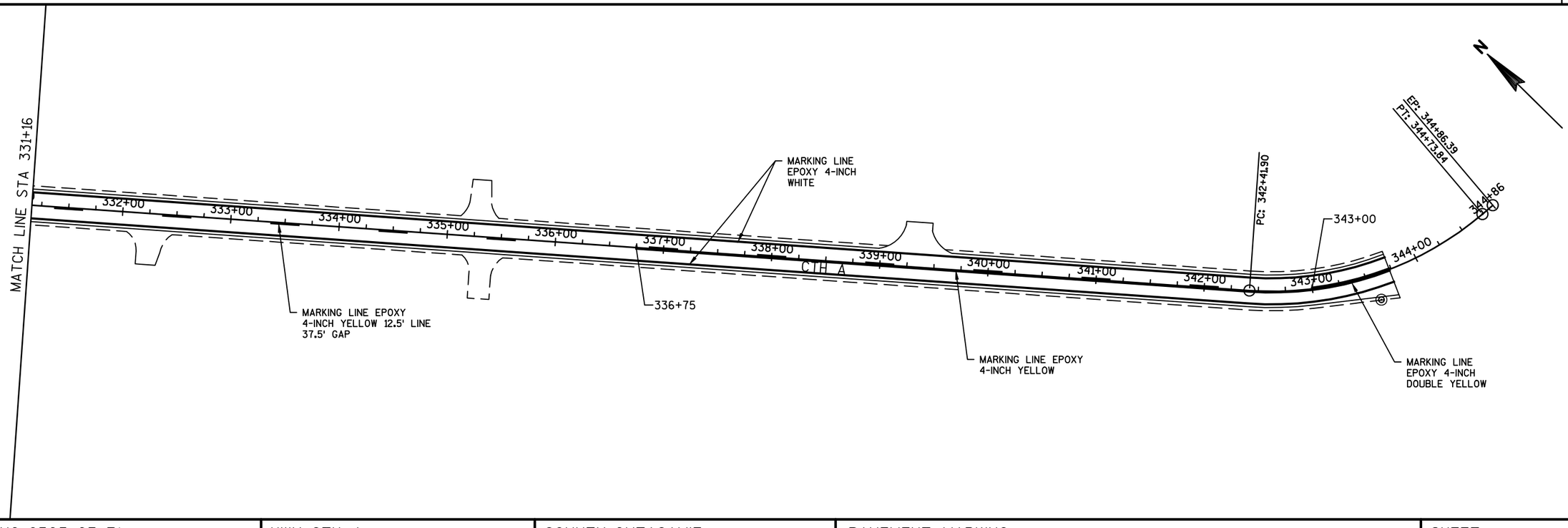
PROJECT NO: 6505-03-71	HWY: CTH A	COUNTY: OUTAGAMIE	PAVEMENT MARKING	SHEET 22	E





PROJECT NO: 6505-03-71	HWY: CTH A	COUNTY: OUTAGAMIE	PAVEMENT MARKING	SHEET 23	E





PROJECT NO: 6505-03-71	HWY: CTH A	COUNTY: OUTAGAMIE	PAVEMENT MARKING	SHEET 24	E

2

1 ROAD CLOSED 4 MILES AHEAD LOCAL TRAFFIC ONLY R11-3 60"X30"

2 ROAD CLOSED 1.5MILES AHEAD LOCAL TRAFFIC ONLY R11-3 60"X30"

3 ROAD CLOSED .5 MILES AHEAD LOCAL TRAFFIC ONLY R11-3 60"X30"

4 ROAD CLOSED 3.5MILES AHEAD LOCAL TRAFFIC ONLY R11-3 60"X30"

5 ROAD CLOSED TO THRU TRAFFIC R11-4 60"X30"

6 ROAD CLOSED AHEAD W20-3-4

7 END ROAD WORK G20-2A 48"X24"

NOTE A: USE SDD "BARRICADES AND SIGNS FOR MAINLINE CLOSURES" DETAIL A AND DETAIL E

NOTE B: USE SDD "BARRICADES AND SIGNS FOR MAINLINE CLOSURES" DETAIL B AND DETAIL E

NOTE C: USE SDD "BARRICADES AND SIGNS FOR SIDEROAD CLOSURES" DETAIL 4

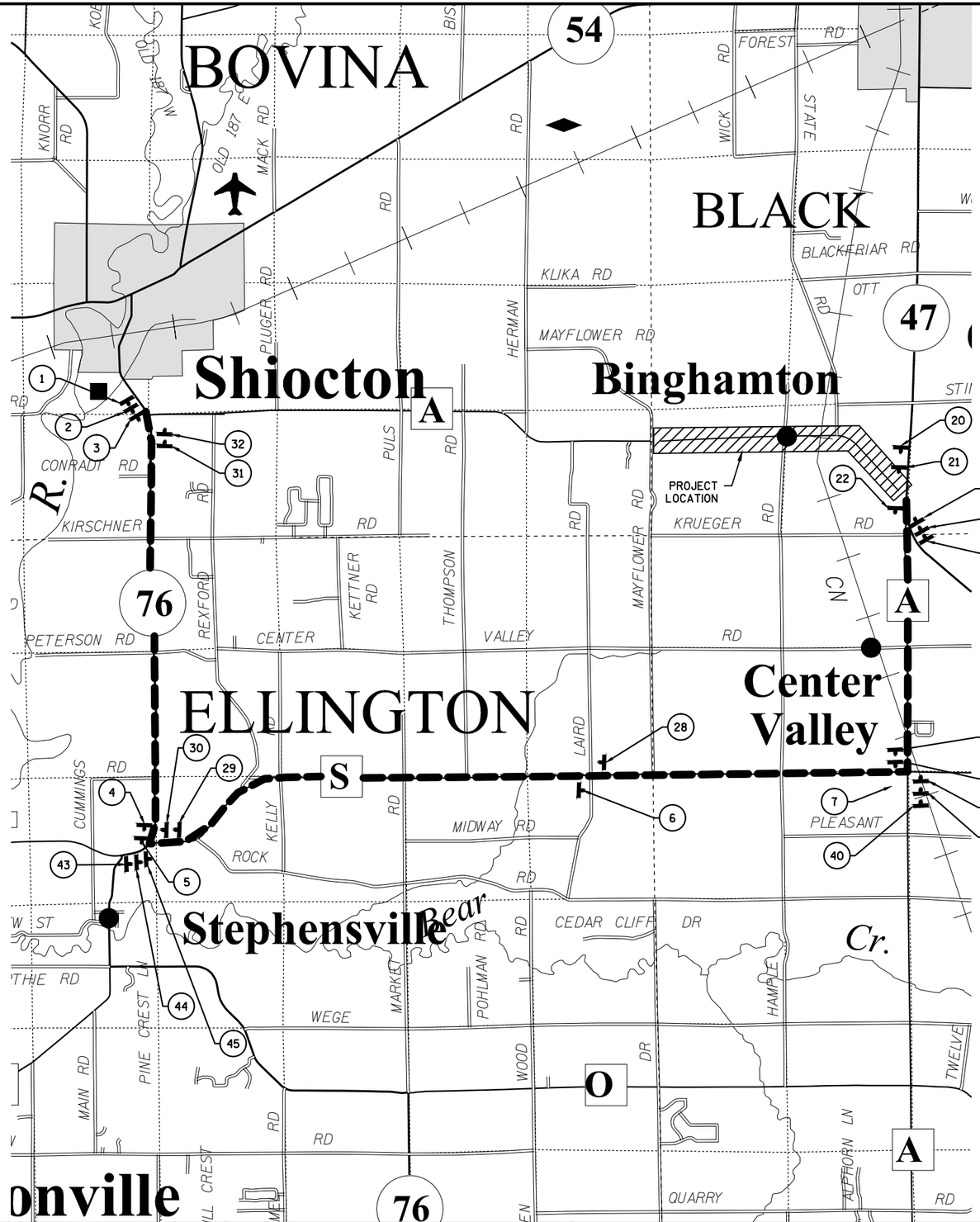
LEGEND

- (00) SIGN NUMBER
- (XX) NOTE LETTER
- POST MOUNTED SIGN
- TYPE III BARRICADE
- WORK AREA

PROJECT NO: 6505-03-71	HWY: CTH A	COUNTY: OUTAGAMIE	TRAFFIC CONTROL	SHEET 25	E

FILE NAME : F:\TR\JOBS\E2182A15\CIVIL 3D 2014\SHEETSPLAN\65050371-025001-TC.DWG
65050370-020301-ts
65050371-025001-tc

PLOT DATE : 2/14/2018 1:26 PM PLOT BY : MATT BERG PLOT NAME : PLOT SCALE : 1 IN:0.75 MI



1 EAST M3-2 24"X12" / COUNTY A M1-5A 24"X24" / DETOUR AHEAD W20-2-A

2 COVER BINGHAMPTON

3 FROM COUNTY A ← TO DETOUR M4-8 24"X12" / EAST M3-2 24"X12" / COUNTY A / M06-1 21"X21"

31 COVER BINGHAMPTON →

32 FROM COUNTY A → TO END DETOUR M4-8A 24"X18" / WEST M3-4 24"X12" / COUNTY A / COVER

43 EAST M3-2 24"X12" / COUNTY A M1-5A 24"X24" / DETOUR AHEAD W20-2-A

4 DETOUR M4-8 24"X12" / EAST M3-2 24"X12" / COUNTY A M1-5A 24"X24" / M05-1L 21"X21"

5 DETOUR M4-8 24"X12" / EAST M3-2 24"X12" / COUNTY A M1-5A 24"X24" / M06-1 21"X21"

44 DETOUR M4-8 24"X12" / EAST M3-2 24"X12" / COUNTY A M1-5A 24"X24" / M05-1R 21"X21"

45 DETOUR M4-8 24"X12" / EAST M3-2 24"X12" / COUNTY A M1-5A 24"X24" / M06-1 21"X21"

29 DETOUR M4-8 24"X12" / WEST M3-4 24"X12" / COUNTY A M1-5A 24"X24" / M05-1R 21"X21"

30 DETOUR M4-8 24"X12" / WEST M3-4 24"X12" / COUNTY A M1-5A 24"X24" / M06-1 21"X21"

28 DETOUR M4-8 24"X12" / WEST M3-4 24"X12" / COUNTY A M1-5A 24"X24" / M06-1 21"X21"

6 DETOUR M4-8 24"X12" / EAST M3-2 24"X12" / COUNTY A M1-5A 24"X24" / M06-1 21"X21"

20 WEST M3-4 24"X12" / COUNTY A M1-5A 24"X24" / DETOUR AHEAD W20-2-A

21 FROM COUNTY A → TO DETOUR M4-8 24"X12" / WEST M3-4 24"X12" / COUNTY A / M06-1 21"X21"

22 FROM COUNTY A → TO COUNTY A → DETOUR M4-8 24"X12" / WEST M3-4 24"X12" / COUNTY A M1-5A 24"X24" / M05-2R 21"X21"

23 FROM COUNTY A ← TO DETOUR M4-8 24"X12" / WEST M3-4 24"X12" / COUNTY A / M06-1 21"X21"

24 DETOUR M4-8 24"X12" / WEST M3-4 24"X12" / COUNTY A M1-5A 24"X24" / M05-1L 21"X21"

25 WEST M3-4 24"X12" / COUNTY A M1-5A 24"X24" / DETOUR AHEAD W20-2-A

26 FROM JCT COUNTY S → TO JCT COUNTY S → DETOUR M4-8 24"X12" / WEST M3-4 24"X12" / COUNTY A M1-5A 24"X24" / M05-1R 21"X21"

7 FROM JCT COUNTY A → TO END DETOUR M4-8A 24"X18" / EAST M3-2 24"X12" / COUNTY A

27 FROM COUNTY S ↔ TO COUNTY S ↔ DETOUR M4-8 24"X12" / WEST M3-4 24"X12" / COUNTY A M1-5A 24"X24" / M06-1 21"X21"

41 DETOUR M4-8 24"X12" / WEST M3-4 24"X12" / COUNTY A M1-5A 24"X24" / M05-1L 21"X21"

42 DETOUR M4-8 24"X12" / WEST M3-4 24"X12" / COUNTY A M1-5A 24"X24" / M06-1 21"X21"

40 WEST M3-4 24"X12" / COUNTY A M1-5A 24"X24" / DETOUR AHEAD W20-2-A

LEGEND
- 00 SIGN NUMBER
- POST MOUNTED SIGN
- DETOUR ROUTE
- WORK AREA

PROJECT NO: 6505-03-71	HWY: CTH A	COUNTY: OUTAGAMIE	DETOUR PLAN	SHEET 26	E

FILE NAME : F:\TR\JOBS\E2182A15\CIVIL 3D 2014\SHEETSPLAN\65050371-027001-DT.DWG
65050370-020301-ts

PLOT DATE : 1/29/2018 2:10 PM PLOT BY : KYLE SKENANDORE PLOT NAME : PLOT SCALE : 1 IN:1 MI

6505-03-71

Line	Item	Item Description	Unit	Total	Qty
0002	201.0205	Grubbing	STA	23.000	23.000
0004	203.0100	Removing Small Pipe Culverts	EACH	42.000	42.000
0006	204.0170	Removing Fence	LF	110.000	110.000
0008	205.0100	Excavation Common	CY	30,056.000	30,056.000
0010	205.0400	Excavation Marsh	CY	370.000	370.000
0012	209.1500	Backfill Granular Grade 1	TON	1,090.000	1,090.000
0014	211.0100	Prepare Foundation for Asphaltic Paving (project) 01. 6505-03-71	LS	1.000	1.000
0016	213.0100	Finishing Roadway (project) 01. 6505-03-71	EACH	1.000	1.000
0018	305.0110	Base Aggregate Dense 3/4-Inch	TON	2,400.000	2,400.000
0020	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	42,530.000	42,530.000
0022	416.1010	Concrete Surface Drains	CY	13.000	13.000
0024	455.0605	Tack Coat	GAL	2,980.000	2,980.000
0026	460.2000	Incentive Density HMA Pavement	DOL	8,030.000	8,030.000
0028	460.5223	HMA Pavement 3 LT 58-28 S	TON	7,560.000	7,560.000
0030	460.5224	HMA Pavement 4 LT 58-28 S	TON	4,980.000	4,980.000
0032	465.0120	Asphaltic Surface Driveways and Field Entrances	TON	190.000	190.000
0034	465.0475	Asphalt Centerline Rumble Strips 2-Lane Rural	LF	2,600.000	2,600.000
0036	521.1012	Apron Endwalls for Culvert Pipe Steel 12-Inch	EACH	2.000	2.000
0038	521.1015	Apron Endwalls for Culvert Pipe Steel 15-Inch	EACH	4.000	4.000
0040	521.1018	Apron Endwalls for Culvert Pipe Steel 18-Inch	EACH	62.000	62.000
0042	521.1277	Apron Endwalls for Pipe Arch Steel 77x52-Inch	EACH	2.000	2.000
0044	521.1283	Apron Endwalls for Pipe Arch Steel 83x57-Inch	EACH	2.000	2.000
0046	521.3112	Culvert Pipe Corrugated Steel 12-Inch	LF	33.000	33.000
0048	521.3115	Culvert Pipe Corrugated Steel 15-Inch	LF	81.000	81.000
0050	521.3118	Culvert Pipe Corrugated Steel 18-Inch	LF	1,455.000	1,455.000
0052	521.6777	Pipe Arch Corrugated Steel Aluminum Coated 77x52-Inch	LF	89.000	89.000
0054	521.6783	Pipe Arch Corrugated Steel Aluminum Coated 83x57-Inch	LF	85.000	85.000
0056	522.0436	Culvert Pipe Reinforced Concrete Class IV 36-Inch	LF	60.000	60.000
0058	522.1018	Apron Endwalls for Culvert Pipe Reinforced Concrete 18-Inch	EACH	1.000	1.000
0060	522.1036	Apron Endwalls for Culvert Pipe Reinforced Concrete 36-Inch	EACH	2.000	2.000
0062	522.2419	Culvert Pipe Reinforced Concrete Horizontal Elliptical Class HE-IV 19x30-Inch	LF	106.000	106.000
0064	522.2619	Apron Endwalls for Culvert Pipe Reinforced Concrete Horizontal Elliptical 19x30-Inch	EACH	4.000	4.000
0066	601.0557	Concrete Curb & Gutter 6-Inch Sloped 36-Inch Type D	LF	2,430.000	2,430.000
0068	606.0200	Riprap Medium	CY	37.000	37.000

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Line	Item	Item Description	Unit	Total	Qty
0070	606.0300	Riprap Heavy	CY	31.000	31.000
0072	608.0312	Storm Sewer Pipe Reinforced Concrete Class III 12-Inch	LF	74.000	74.000
0074	608.0315	Storm Sewer Pipe Reinforced Concrete Class III 15-Inch	LF	32.000	32.000
0076	608.0418	Storm Sewer Pipe Reinforced Concrete Class IV 18-Inch	LF	322.000	322.000
0078	611.0530	Manhole Covers Type J	EACH	2.000	2.000
0080	611.0615	Inlet Covers Type F	EACH	2.000	2.000
0082	611.0642	Inlet Covers Type MS	EACH	1.000	1.000
0084	611.2004	Manholes 4-FT Diameter	EACH	1.000	1.000
0086	611.2005	Manholes 5-FT Diameter	EACH	1.000	1.000
0088	611.3253	Inlets 2.5x3-FT	EACH	2.000	2.000
0090	611.3901	Inlets Median 1 Grate	EACH	1.000	1.000
0092	612.0700	Drain Tile Exploration	LF	300.000	300.000
0094	619.1000	Mobilization	EACH	1.000	1.000
0096	623.0200	Dust Control Surface Treatment	SY	80,000.000	80,000.000
0098	624.0100	Water	MGAL	270.000	270.000
0100	625.0500	Salvaged Topsoil	SY	81,000.000	81,000.000
0102	627.0200	Mulching	SY	54,000.000	54,000.000
0104	628.1504	Silt Fence	LF	8,500.000	8,500.000
0106	628.1520	Silt Fence Maintenance	LF	8,500.000	8,500.000
0108	628.1905	Mobilizations Erosion Control	EACH	6.000	6.000
0110	628.1910	Mobilizations Emergency Erosion Control	EACH	2.000	2.000
0112	628.2008	Erosion Mat Urban Class I Type B	SY	27,000.000	27,000.000
0114	628.7005	Inlet Protection Type A	EACH	3.000	3.000
0116	628.7015	Inlet Protection Type C	EACH	2.000	2.000
0118	628.7504	Temporary Ditch Checks	LF	370.000	370.000
0120	628.7555	Culvert Pipe Checks	EACH	130.000	130.000
0122	628.7570	Rock Bags	EACH	180.000	180.000
0124	629.0210	Fertilizer Type B	CWT	53.000	53.000
0126	630.0110	Seeding Mixture No. 10	LB	550.000	550.000
0128	630.0140	Seeding Mixture No. 40	LB	730.000	730.000
0130	630.0160	Seeding Mixture No. 60	LB	50.000	50.000
0132	630.0200	Seeding Temporary	LB	1,100.000	1,100.000
0134	633.5200	Markers Culvert End	EACH	14.000	14.000
0136	634.0616	Posts Wood 4x6-Inch X 16-FT	EACH	39.000	39.000
0138	637.2210	Signs Type II Reflective H	SF	137.690	137.690
0140	637.2230	Signs Type II Reflective F	SF	87.000	87.000
0142	638.2102	Moving Signs Type II	EACH	2.000	2.000

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Line	Item	Item Description	Unit	Total	Qty
0144	638.2602	Removing Signs Type II	EACH	40.000	40.000
0146	638.3000	Removing Small Sign Supports	EACH	37.000	37.000
0148	638.4000	Moving Small Sign Supports	EACH	2.000	2.000
0150	642.5001	Field Office Type B	EACH	1.000	1.000
0152	643.0300	Traffic Control Drums	DAY	4,450.000	4,450.000
0154	643.0420	Traffic Control Barricades Type III	DAY	2,316.000	2,316.000
0156	643.0705	Traffic Control Warning Lights Type A	DAY	4,632.000	4,632.000
0158	643.0900	Traffic Control Signs	DAY	9,120.000	9,120.000
0160	643.0920	Traffic Control Covering Signs Type II	EACH	3.000	3.000
0162	643.1000	Traffic Control Signs Fixed Message	SF	64.000	64.000
0164	643.5000	Traffic Control	EACH	1.000	1.000
0166	645.0120	Geotextile Type HR	SY	176.000	176.000
0168	646.1020	Marking Line Epoxy 4-Inch	LF	32,670.000	32,670.000
0170	646.3020	Marking Line Epoxy 8-Inch	LF	500.000	500.000
0172	646.5320	Marking Railroad Crossings Epoxy	EACH	2.000	2.000
0174	648.0100	Locating No-Passing Zones	MI	2.170	2.170
0176	650.4000	Construction Staking Storm Sewer	EACH	6.000	6.000
0178	650.4500	Construction Staking Subgrade	LF	11,789.000	11,789.000
0180	650.5000	Construction Staking Base	LF	11,789.000	11,789.000
0182	650.5500	Construction Staking Curb Gutter and Curb & Gutter	LF	2,430.000	2,430.000
0184	650.6000	Construction Staking Pipe Culverts	EACH	7.000	7.000
0186	650.9910	Construction Staking Supplemental Control (project) 01. 6505-03-71	LS	1.000	1.000
0188	650.9920	Construction Staking Slope Stakes	LF	11,789.000	11,789.000
0190	690.0150	Sawing Asphalt	LF	610.000	610.000
0192	740.0440	Incentive IRI Ride	DOL	8,800.000	8,800.000
0194	ASP.1T0A	On-the-Job Training Apprentice at $5.00/HR	HRS	2,000.000	2,000.000
0196	ASP.1T0G	On-the-Job Training Graduate at $5.00/HR	HRS	1,320.000	1,320.000
0198	SPV.0035	Special 01. Pipe Slurry Backfill	CY	105.000	105.000
0200	SPV.0060	Special .01 Research and Locate Existing Land Parcel Monuments	EACH	25.000	25.000
0202	SPV.0060	Special .02 Verify and Replace Existing Land Parcel Monuments	EACH	25.000	25.000

GRUBBING

STATION		TO STATION	ROADWAY	201.0205 GRUBBING STA
CATEGORY 0010				
230+00	-	231+00	CTH A	1
243+00		244+00	CTH A	1
246+00	-	249+00	CTH A	3
255+00	-	259+00	CTH A	4
296+00		297+00	CTH A	1
298+00	-	300+00	CTH A	2
310+00	-	311+00	CTH A	1
312+00		313+00	CTH A	1
326+00	-	335+00	CTH A	9
PROJECT TOTALS				23

BACKFILL GRANULAR GRADE 1

STATION TO STATION	LOCATION	209.1500 BACKFILL GRANULAR GRADE 1 TON	REMARKS
CATEGORY 0010			
297+00 - 300+00	CTH A	1090	MARSH EX. BACKFILL
PROJECT TOTALS		1,090	

REMOVING FENCE

STATION TO STATION	DIR	LOCATION	204.0170 REMOVING FENCE LF
CATEGORY 0010			
255+70 - 256+55	RT	CTH A	110
PROJECT TOTAL			110

BASE AGGREGATE DENSE

STATION	TO	STATION	LOCATION	305.0110 3/4-INCH TONS	305.0120 1 1/4-INCH TONS	624.0100 WATER MGAL
CATEGORY 0010						
229+00	-	249+00	CTH A	448	6,760	43
249+00	-	258+50	CTH A	67	3,531	22
258+50	-	277+00	CTH A	414	6,253	40
277+00	-	285+50	CTH A	95	3,261	20
285+50	-	304+00	CTH A	414	6,253	40
304+00	-	309+00	CTH A	112	2,057	13
309+00	-	343+73	CTH A	791	11,748	76
100+11	-	103+27	HAMPLE RD	36	994	6
110+50	-	111+75	STATE RD	22	517	3
229+00	-	343+73	DRIVES	0	1,155	7
			PROJECT TOTALS	2,400	42,530	270

REMOVING SMALL PIPE CULVERTS

STATION	OFFSET	DIR	LOCATION	203.0100 REMOVING SMALL PIPE CULVERTS EACH	LENGTH (INFORMATION ONLY) FT	COMMENTS
CATEGORY 0010						
229+10	32'	LT	PE	1	32	18" CPM
231+45	31'	LT	PE	1	32	18" CPM
232+95	29'	LT	PE	1	28	18" CPM
234+06	31'	RT	PE	1	32	18" CPM
244+73	35'	LT	PE	1	32	18" CPM
245+51	34'	LT	PE	1	33	18" CPM
246+72	30'	RT	PE	1	32	18" CPM
248+02	34'	LT	PE	1	32	18" CPM
251+23	30'	RT	PE	1	32	15" CPM
252+65	27'	RT	PE	1	32	15" CPM
258+04	29'	LT	PE	1	20	18" CPM
259+14	30'	LT	PE	1	28	18" CPM
259+74	29'	LT	PE	1	30	18" CPM
264+30	36'	RT	PE	1	32	18" CPM
269+74	34'	RT	PE	1	32	18" CPM
269+85	30'	LT	PE	1	32	18" CPM
274+33	31'	LT	PE	1	42	15" CPM
278+20	30'	RT	PE	1	32	15" CPM
281+87	25'	RT	PE	1	32	18" CPM
282+62	26'	RT	HAMPLE RD	1	48	18" CPM
282+69	35'	LT	HAMPLE RD	1	54	18" CPM
283+38	26'	RT	PE	1	41	18" CPM
284+13	26'	RT	PE	1	48	18" CPM
285+14	28'	RT	PE	1	32	18" CPM
285+64	33'	LT	PE	1	27	18" CPM
287+72	32'	LT	PE	1	27	18" CPM
288+48	31'	RT	PE	1	40	18" CPM
295+84	34'	RT	PE	1	30	18" CPM
296+14	35'	LT	PE	1	32	18" CPM
299+74	0'	RT	CTH A	1	65	54" CPM
304+75	31'	LT	PE	1	60	24" CPM
307+11	31'	RT	PE	1	32	18" CPM
312+67	34'	LT	PE	1	24	18" CPM
313+72	34'	LT	PE	1	32	18" CPM
316+52	27'	RT	PE	1	54	36" CPM
321+44	32'	RT	PE	1	48	18" CPM
326+00	32'	LT	PE	1	30	18" CPM
327+82	32'	RT	PE	1	32	18" CPM
332+13	26'	RT	PE	1	40	18" CPM
335+23	30'	RT	PE	1	32	18" CPM
338+54	0'	RT	CTH A	1	52	24" CPM
339+18	33'	LT	PE	1	50	18" CPM
			PROJECT TOTAL	42		

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From - To Station	Location	Common Excavation (1)	Salvaged/Unusable Pavement Material (4)	Available Material (5)	Marsh Excavation (6)	Expanded Marsh Backfill (10)	Unexpanded Fill	Expanded Fill (13)	Mass Ordinate +/- (14)	Comment:
		Cut (2)			(item #205.0500)	Factor 1.50		Factor 1.25		
229+00 - 343+82	CTH A	29,493	3,117	26,376	370	555	8,604	10,755	16,176	
100+11 - 103+27	HAMPLE RD	370	96	274	0	0	40	50	224	
110+50 - 111+75	STATE RD	193	56	137	0	0	171	214	-77	
	Division 1 Subtotal	30,056	3,269	26,786	370	555	8,815	11,018	16,323	
		30,056	3,269	26,786	370	555	8,815	11,018	16,323	
	Total Common Exc	30,056								

1) Common Excavation is Item number 205.0100
2) Salvaged/Unsuable Pavement Material is included in Cut.
4) Salvaged/Unusable Pavement Material
5) Available Material = Cut - Salvaged/Unusuable Pavement Material
6) Marsh Excavation - to be backfilled with Granular Backfill Grade 1.
10) Expanded Marsh Backfill - This is to be filled with Granular Backfill Grade 1. Expanded Marsh Factor = 1.12. Item number 209.2500
13) Expanded Fill. Factor = 1.25
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.

CONCRETE SURFACE DRAINS

STATION	TO	STATION	DIR	LOCATION	416.1010 CONCRETE SURFACE DRAINS CY
CATEGORY 0010					
229+00	-	275+00		CTH A	6
275+00	-	300+00		CTH A	5
300+00	-	344+86		CTH A	2
				PROJECT TOTALS	13

ASPHALTIC ITEMS

STATION	TO	STATION	LOCATION	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
CATEGORY 0010						
229+00		248+50	CTH A	460	1,130	750
248+50		258+90	CTH A	308	760	510
258+90		276+00	CTH A	399	990	660
276+00		286+40	CTH A	308	760	510
286+40		303+64	CTH A	402	1,000	670
303+64		309+85	CTH A	187	460	310
309+85		320+00	CTH A	239	590	400
320+00		330+00	CTH A	233	580	390
330+00		343+73	CTH A	322	800	530
229+00		343+73	SAFETY EDGE		180	40
100+11		101+44	HAMPLE RD SOUTH	39	100	70
101+86		103+27	HAMPLE RD NORTH	40	100	70
110+50		111+75	STATE ST	42	110	70
			PROJECT TOTALS	2,980	7,560	4,980

ASPHALTIC ITEMS

STATION	TO	STATION	LOCATION	465.0120 ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES TON
CATEGORY 0010				
229+00	-	275+00	CTH A	75
275+00	-	300+00	CTH A	50
300+00	-	344+86	CTH A	65
			PROJECT TOTALS	190

ASPHALTIC RUMBLE STRIPS

STATION	TO	STATION	LOCATION	465.0475 ASPHALTIC CENTERLINE RUMBLE STRIPS 2-LANE RURAL LF
CATEGORY 0010				
229+00	-	255+00	CTH A	2,600
			PROJECT TOTALS	2,600

CULVERT PIPE

STATION	DIR	LOCATION	521.3112 CULVERT PIPE CORRUGATED STEEL 12-INCH LF	521.3115 CULVERT PIPE CORRUGATED STEEL 15-INCH LF	521.3118 CULVERT PIPE CORRUGATED STEEL 18-INCH LF	521.1012 APRON ENDWALLS FOR CULVERT PIPE STEEL 12-INCH	521.1015 APRON ENDWALLS FOR CULVERT PIPE STEEL 15-INCH EACH	521.1018 APRON ENDWALLS FOR CULVERT PIPE STEEL 18-INCH EACH	521.1277 APRON ENDWALLS FOR PIPE ARCH STEEL 77X52-INCH EACH	521.1283 APRON ENDWALLS FOR PIPE ARCH STEEL 83X57-INCH EACH	522.0436 CULVERT PIPE REINFORCED CONCRETE CLASS-IV 36-INCH LF	522.1036 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 36-INCH EA	522.2419 CULVERT PIPE REINFORCED CONCRETE HORIZ. ELLIPTICAL CLASS HE-IV 19X30-INCH LF	522.2619 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE HORIZ. ELLIPTICAL 19X30-INCH EA	521.6777 PIPE ARCH CORRUGATED STEEL ALUMINUM COATED 77X52-INCH LF	521.6783 PIPE ARCH CORRUGATED STEEL ALUMINUM COATED 83X57-INCH LF	THICKNESS INCH	633.5200 MARKERS CULVERT END EACH
CATEGORY 0010																		
229+25	LT	CTH A			35			2									0.064	
231+60	LT	CTH A			44			2									0.064	
233+12	LT	CTH A			35			2									0.064	
234+23	RT	CTH A			43			2									0.064	
244+90	LT	CTH A			35			2									0.064	
245+68	LT	CTH A			50			2									0.064	
246+88	RT	CTH A			36			2									0.064	
248+19	LT	CTH A			50			2									0.064	
258+16	LT	CTH A			45			2									0.064	
259+30	LT	CTH A			46			2									0.064	
259+91	LT	CTH A			46			2									0.064	
264+46	RT	CTH A			43			2									0.064	
269+25	LT	CTH A		40			2										0.064	
269+90	RT	CTH A			36			2									0.064	
270+00	LT	CTH A			36			2									0.064	
274+53	LT	CTH A			48			2									0.064	
280+20	LT	CTH A			38			2									0.064	
282+00	RT	CTH A	33			2											0.064	
285+82	LT	CTH A			58			2									0.064	
287+84	LT	CTH A			53			2									0.064	
288+66	RT	CTH A			43			2									0.064	
296+00	RT	CTH A			39			2									0.064	
296+30	LT	CTH A			46			2									0.064	
307+25	RT	CTH A			38			2									0.064	
312+80	LT	CTH A		41			2										0.064	
313+89	LT	CTH A			41			2									0.064	
321+63	RT	CTH A			60			2									0.064	
326+00	LT	CTH A			54			2									0.064	
328+00	RT	CTH A			42			2									0.064	
332+25	RT	CTH A			49			2									0.064	
335+30	RT	CTH A			50			2									0.064	
339+32	LT	CTH A			56			2									0.064	
276+00	---	CTH A											52	2			---	2
102+15	---	HAMPLE RD			73			2									0.064	2
297+19	---	CTH A								2						85	0.109	2
299+76	---	CTH A							2						89		0.109	2
110+54	---	STATE RD			87			2									0.064	2
316+50	---	CTH A									60	2					---	2
336+00	---	CTH A											54	2			---	2
PROJECT TOTALS			33	81	1,455	2	4	62	2	2	60	2	106	4	89	85		14

3

CONCRETE CURB AND GUTTER

STATION TO STATION			DIR	LOCATION	601.0557 CONCRETE CURB AND GUTTER 6-INCH SLOPED 36-INCH TYPE D LF
CATEGORY 0010					
249+00	-	258+00	RT	CTH A	900
255+00		258+40	LT	CTH A	340
277+20		283+00	RT	CTH A	590
282+35		283+00	LT	CTH A	75
283+00		283+75	LT	CTH A	90
283+00		285+60	RT	CTH A	280
304+49		305+00	LT	STATE ST	65
305+00		305+70	RT	STATE ST	90
				PROJECT TOTAL	2,430

RIPRAP AND GEOTEXTILE

STATION	SIDE	PIPE DIA	LOCATION	606.0200 RIPRAP MEDIUM CY	606.0300 RIPRAP HEAVY CY	645.0120 GEOTEXTILE TYPE HR SY
CATEGORY 0010						
276+00	LT	HE-IV 19X30	CTH A	5	---	17
285+65	RT	18	CTH A	2	---	9
297+19	LT	83X57	CTH A	---	31	62
299+77	LT	77X52	CTH A	21	---	56
316+50	RT	36	CTH A	4	---	15
336+00	RT	HE-IV 19X30	CTH A	5	---	17
			TOTAL	37	31	176

STORM SEWER PIPE

STRUCTURE		608.0312 REIN. CONC. CLASS III 12-INCH	608.0315 REIN. CONC. CLASS III 15-INCH	608.0418 REIN. CONC. CLASS IV 18-INCH
FROM	TO	LF	LF	LF
CATEGORY 0010				
1.0	2.0	36		
2.0	3.0		32	
3.1	3.0	38		
3.0	4.0			291
4.0	4.1			31
PROJECT TOTALS		74	32	322

MANHOLES AND INLETS

STRUCT NUM	STA	RL	DIST.	DIR	522.1018 APRON ENDWALL FOR CULVERT PIPE REINFORCED CONCRETE 18-INCH EACH	611.0530 MANHOLE COVERS TYPE J EACH	611.0615 INLET COVERS TYPE F EACH	611.0642 INLET COVERS TYPE MS	611.2004 MANHOLE 4-FT DIA EACH	611.2005 MANHOLE 5-FT DIA EACH	611.3253 INLETS 2.5X3-FT EACH	611.3901 INLETS MEDIAN 1 GRATE EACH	TOP OF COVER/ FLANGE ELEVATION	TOP OF STRUCT ELEV	INV ELEV	STRUCT DEPTH FT
CATEGORY 0010																
1.0	281+82	CTH A	25.5	RT			1				1		832.14	831.14	828.20	2.94
2.0	282+18	CTH A	25.5	RT			1				1		831.54	830.54	827.78	2.76
3.0	282+47	CTH A	15.0	RT		1				1			831.19	829.95	825.99	3.96
3.1	282+48	CTH A	52.8	RT				1				1	828.72	827.72	826.29	2.43
4.0	285+38	CTH A	15.0	RT		1			1				826.61	825.37	823.08	2.62
4.1	285+65	CTH A	30.0	RT	1								---	---	822.92	---
				PROJECT TOTALS	1	2	2	1	1	1	2	1				

GENERAL NOTES: LOCATION REFERS TO THE CENTER OF STRUCTURE
TOP OF COVER/FLANGE ELEVATIONS REFER TO THE CENTER OF STRUCTURE FOR MANHOLES AND FLANGELINE FOR INLETS
ALLOWANCES FOR ADJUSTMENT RINGS AND FRAMES ARE AS FOLLOWS: MANHOLES = 1.24'
INLETS = 1.0'
STRUCTURE DEPTH EQUALS TOP OF STRUCTURE ELEVATION MINUS THE INVERT ELEVATION MINUS THE ALLOWANCE FOR ADJUSTMENT RINGS AND FRAME
INVERTS OF EXISTING PIPE AND STRUCTURES SHOULD BE VERIFIED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER PRIOR TO ORDERING STRUCTURE

LANDSCAPING ITEMS

STATION		TO STATION	LOCATION	625.0500 SALVAGED TOPSOIL SY	627.0200 MULCHING SY	628.2008 EROSION MAT URBAN CLASS I TYPE B SY	629.0210 FERTILIZER TYPE B CWT	630.0110 SEEDING MIXTURE NO. 10 LB	630.0140 SEEDING MIXTURE NO. 40 LB	630.0160 SEEDING MIXTURE NO. 60 LB	630.0200 SEEDING TEMPORARY LB
CATEGORY 0010											
229+00		240+00	CTH A	5,780	5,150	630	3.6	39	52	0	78
240+00		250+00	CTH A	5,320	4,710	610	3.4	36	48	0	72
250+00		260+00	CTH A	5,290	3,130	2,160	3.3	36	48	0	71
260+00		270+00	CTH A	5,600	5,490	110	3.5	38	50	0	76
270+00		280+00	CTH A	4,800	3,740	1,060	3.0	32	43	0	65
280+00		290+00	CTH A / HAMPLE	5,120	3,720	1,400	3.2	35	46	0	69
290+00		300+00	CTH A	7,470	2,230	5,240	4.7	50	67	21	101
300+00		310+00	CTH A / STATE	6,740	3,820	2,920	4.2	45	61	5	91
310+00		320+00	CTH A	5,700	4,740	960	3.6	38	51	5	77
320+00		330+00	CTH A	6,520	4,000	2,520	4.1	44	59	0	88
330+00		343+73	CTH A	8,910	4,160	4,750	5.6	60	80	5	120
			UNDISTRIBUTED	13,750	9,110	4,640	10.6	96	125	14	192
			PROJECT TOTALS	81,000	54,000	27,000	53.0	550	730	50	1,100

DUST CONTROL SURFACE TREATMENT

STATION	TO	STATION	ROADWAY	623.0200 DUST CONTROL SURFACE TREATMENT SY
CATEGORY 0010				
229+00	-	343+73	CTH A	80,000
		PROJECT TOTALS		80,000

EROSION CONTROL ITEMS

STATION		TO STATION	LOCATION	628.1504 SILT FENCE LF	628.1520 SILT FENCE MAINT LF	628.1905 MOB. EROSION CONTROL EA	628.1910 MOB. EMERGENCY EROSION CONTROL EA	628.7005 INLET PROTECT. TYPE A EACH	628.7015 INLET PROTECT. TYPE C EACH	628.7504 TEMP. DITCH CHECKS LF	628.7555 CULVERT PIPE CHECKS EACH	628.7570 ROCK BAGS EACH
CATEGORY 0010												
229+00	-	240+00	CTH A	850	850						6	40
240+00	-	250+00	CTH A	1,000	1,000						8	
250+00	-	260+00	CTH A	400	400						4	
260+00	-	270+00	CTH A	1,450	1,450					40	2	40
270+00	-	280+00	CTH A	480	480						10	
280+00	-	290+00	CTH A		0			3	2	20	8	
290+00	-	300+00	CTH A	1,510	1,510					30	26	20
300+00	-	310+00	CTH A	700	700					30	24	20
310+00	-	320+00	CTH A	520	520					30	10	20
320+00	-	330+00	CTH A	175	175					130	6	
330+00	-	343+73	CTH A		0					30	8	
			UNDISTRIBUTED	1,415	1,415	6	2	0	0	60	18	40
			PROJECT TOTALS	8,500	8,500	6	2	3	2	370	130	180

DRAIN TILE EXPLORATION

STATION	TO	STATION	DIR	LOCATION	612.0700 DRAIN TILE EXPLORATION LF	REMARKS
CATEGORY 0010						
318+00		325+00	LT	CTH A	200	CONTACT LANDOWNER FOR APPROX. LOCATIONS
326+00	-	327+75	RT	CTH A	100	CONTACT LANDOWNER FOR APPROX. LOCATIONS
				PROJECT TOTALS	300	

PERMANENT SIGNS TYPE II AND SIGN SUPPORTS

SIGN NO.	STATION		REFERENCE LINE	FACE DIR.	SIGN CODE	SIGN SIZE	DESCRIPTION	SIGN W X H IN X IN	ASSEMBLY NO.	ASSEMBLY WIDTH IN	ASSEMBLY HEIGHT IN	634.0616 POSTS WOOD 16 FT EACH	637.2210 SIGNS TYPE II REFLECTIVE H SF	637.2230 SIGNS TYPE II REFLECTIVE F SF	REMARKS
CATEGORY 0010															
101	213+40	RT	CTH A	WB	W14-3	2S	NO PASSING ZONE	48 X 36				1	---	5.56	
102	243+50	RT	CTH A	EB	W3-5	2S	SPEED REDUCTION AHEAD	36 X 36				1	---	9.00	SPEED LIMIT = 45
103	244+75	LT	CTH A	EB	W14-3	2S	NO PASSING ZONE	48 X 36				1	---	5.56	
104	246+50	RT	CTH A	EB	S3-1	2	SCHOOL BUS STOP	36 X 36				1	---	9.00	
105	248+50	RT	CTH A	EB	R2-1	2S	SPEED LIMIT	24 X 30				1	5.00	---	SPEED LIMIT = 45
106	249+00	LT	CTH A	WB	R2-1	2S	SPEED LIMIT	24 X 30				1	5.00	---	SPEED LIMIT = 55
107	264+25	RT	CTH A	WB	W14-3	2S	NO PASSING ZONE	48 X 36				1	---	5.56	
108	266+25	RT	CTH A	EB	R2-1	2S	SPEED LIMIT	24 X 30				1	5.00	---	SPEED LIMIT = 45
109	268+25	RT	CTH A	EB			BINGHAMTON	78 X 24				2	13.00	---	BINGHAMTON SIGN
110	275+00	RT	CTH A	EB	W2-1	2S	CROSS ROAD	30 X 30				1	---	6.25	
111A	277+50	RT	CTH A	EB	R7-1-L	2S	NO PARKING	18 X 24				---	3.00	---	
111	281+50	RT	CTH A	EB	R7-1-D	2S	NO PARKING	18 X 24				1	3.00	---	
112	281+75	LT	CTH A	WB	R2-1	2S	SPEED LIMIT	24 X 30				1	5.00	---	SPEED LIMIT = 45
113	100+85	LT	HAMPLE RD	SB	R7-1-D	2S	NO PARKING	18 X 24				1	3.00	---	HAMPLE ROAD
114	102+00	LT	HAMPLE RD	SB	R1-1	2S	STOP	30 X 30				1	6.25	---	
115	101+40	RT	HAMPLE RD	NB	R1-1	2S	STOP	30 X 30				1	6.25	---	
116	102+50	RT	HAMPLE RD	NB	W14-1	2S	DEAD END	30 X 30				1	6.25	---	
117	285+50	RT	CTH A	EB	R2-1	2S	SPEED LIMIT	24 X 30				1	5.00	---	SPEED LIMIT = 45
118	285+50	RT	CTH A	EB	R7-1-D	2S	NO PARKING	18 X 24				---	3.00	---	
119	287+25	LT	CTH A	WB	R7-1-D	2S	NO PARKING	18 X 24				1	3.00	---	
120	291+00	LT	CTH A	WB	W2-1	2S	CROSS ROAD	30 X 30				1	---	6.25	
121	293+25	RT	CTH A	EB	W10-1	2S	RR XING	36 X 36				1	---	7.07	
122	292+54	LT	CTH A	EB	W14-3	2S	NO PASSING ZONE	48 X 36				1	---	5.56	
123	299+00	RT	CTH A	EB	R2-1	2S	SPEED LIMIT	24 X 30				1	5.00	---	
124	300+75	LT	CTH A	WB	R2-1	2S	SPEED LIMIT	24 X 30				1	5.00	---	
125	302+00	LT	CTH A	WB	W10-1	2S	RR XING	36 X 36				1	---	7.07	
126	110+25	LT	STATE RD	SB	R1-1	2S	STOP	30 X 30				1	6.25	---	
127	111+25	RT	STATE RD	NB	R12-53	2S	WEIGHT LIMIT	24 X 30				1	5.00	---	
128	319+00	RT	CTH A	EB	R2-1	2S	SPEED LIMIT	24 X 30				1	5.00	---	SPEED LIMIT = 45
129	319+00	LT	CTH A	WB	R2-1	2S	SPEED LIMIT	24 X 30				1	5.00	---	SPEED LIMIT = 45
130	323+00	RT	CTH A	WB	W14-3	2S	NO PASSING ZONE	48 X 36				1	---	5.56	
132	334+00	RT	CTH A	EB	W3-1	2S	STOP AHEAD	36 X 36				1	---	9.00	
133	337+00	RT	CTH A	EB	M2-1	2	JCT	21 X 15	J1-1	24	39	1	2.19	---	
			CTH A		M1-6	2	STH ROUTE MARKER	24 X 24				---	4.00	---	
134	336+75	LT	CTH A	EB	W14-3	2S	NO PASSING ZONE	48 X 36				1	---	5.56	
135	339+00	RT	CTH A	EB			DESTINATION	84 X 30				2	17.50	---	BLACK CREEK/APPLETON SIGN
136	343+00	LT	CTH A	WB	M3-1	2	CARDINAL DIRECTION	24 X 12	J4-1	24	36	1	2.00	---	
			CTH A		M1-5A	2	CTH ROUTE MARKER	24 X 24				---	4.00	---	
137	341+00	LT	CTH A	WB	R2-1	2S	SPEED LIMIT	24 X 30				1	5.00	---	SPEED LIMIT = 45
138	293+75	LT	CTH A	WB			BINGHAMTON	86 X 24				2	14.33	---	BINGHAMTON SIGN
												PROJECT TOTALS	39	137.69	87.00

REMOVING SIGNS TYPE II AND REMOVING SMALL SIGN SUPPORTS

SIGN NO.	STATION	LOCATION	DESCRIPTION	638.2602 REMOVING SIGNS TYPE II EACH	638.3000 REMOVING SMALL SIGN SUPPORTS EACH	REMARKS
CATEGORY 0010						
R100	229+65 LT	CTH A	DEER CROSSING	1	1	
R101	223+50 RT	CTH A	NO PASSING ZONE	1	1	
R102	244+50 RT	CTH A	SPEED REDUCTION	1	1	
R103	244+75 LT	CTH A	NO PASSING ZONE	1	1	
R104	247+75 RT	CTH A	SCHOOL BUS STOP AHEAD	1	1	
R105	254+25 RT	CTH A	SPEED LIMIT	1	1	
R106	254+75 LT	CTH A	SPEED LIMIT	1	1	
R107	264+10 RT	CTH A	NO PASSING ZONE	1	1	
R108	268+00 RT	CTH A	BINGHAMTON	1	1	
		CTH A	SPEED LIMIT	1	-	
R109	275+00 RT	CTH A	CROSS STREET	1	1	
R110	281+50 RT	CTH A	NO PARKING	1	1	
R111	281+75 LT	CTH A	SPEED LIMIT	1	1	
R112	101+25 LT	HAMPLE	NO PARKING	1	1	
R113	102+00 LT	HAMPLE	STOP	1	1	
R114	102+30 RT	HAMPLE	DEAD END	1	1	
R115	101+40 RT	HAMPLE	STOP	1	1	
R116	285+50 RT	CTH A	SPEED LIMIT	1	1	
		CTH A	NO PARKING	1	-	
R117	287+25 LT	CTH A	NO PARKING	1	1	
R118	291+00 LT	CTH A	CROSS STREET	1	1	
R119	293+25 RT	CTH A	RAILROAD XING	1	1	
R120	293+75 LT	CTH A	NO PASSING ZONE	1	1	
R121	296+25 RT	CTH A	CURVE WARNING	1	1	
R122	298+90 RT	CTH A	SPEED LIMIT	1	1	
R123	300+70 LT	CTH A	SPEED LIMIT	1	1	
R124	302+00 LT	CTH A	RAILROAD XING	1	1	
R125	110+40 LT	STATE	STOP	1	1	
R126	111+00 RT	STATE	WEIGHT LIMIT	1	1	
R127	319+00 RT	CTH A	SPEED LIMIT	1	1	
R128	319+00 LT	CTH A	SPEED LIMIT	1	1	
R129	323+00 LT	CTH A	CURVE WARNING	1	1	
R130	323+00 RT	CTH A	NO PASSING ZONE	1	1	
R131	325+75 LT	CTH A	SPEED REDUCTION	1	1	
R132	322+75 RT	CTH A	STOP AHEAD	1	1	
R133	336+50 RT	CTH A	JCT STH 47	1	1	
R134	336+75 LT	CTH A	NO PASSING ZONE	1	1	
R135	339+00 RT	CTH A	DESTINATION	1	1	BLACK CREEK, APPLETON
R136	343+00 LT	CTH A	WEST CTH A	1	1	
R137	293+75 LT	CTJ	BINGHAMTON	1	-	
			TOTALS	40	37	

MOVING SIGNS TYPE II AND MOVING SMALL SIGN SUPPORTS

SIGN NO.	FROM STATION	TO STATION	LOCATION	DESCRIPTION	638.2102 MOVING SIGNS TYPE II EACH	638.4000 MOVING SMALL SIGN SUPPORTS EACH	REMARKS
CATEGORY 0010							
M101	102+00 , LT	102+00 , RT	HAMPLE	STREET NAMES	1	1	COUNTY A, HAMPLE RD
M102	110+40 , RT	110+40 , RT	STATE	STREET NAMES	1	1	COUNTY A, STATE RD
				TOTALS	2	2	

PAVEMENT MARKING

STATION TO STATION			ROADWAY	646.1020 MARKING LINE EPOXY 4-INCH (YELLOW) LF	646.1020 MARKING LINE EPOXY 4-INCH (WHITE) LF	646.3020 MARKING LINE EPOXY 8-INCH (WHITE) LF	646.5320 MARKING RAILROAD CROSSING EPOXY EACH	648.0100 LOCATING NO-PASSING ZONES MI
CATEGORY 0010								
229+00	-	283+00	CTH A	3839	10458	200	--	1.02
283+00	-	305+00	CTH A	2342	4202	--	2	0.42
305+00	-	343+73	CTH A	4096	7733	300	--	0.73
TOTALS				32,670		500	2	2.17

TRAFFIC CONTROL

LOCATION	APPROX. SERVICE PERIOD DAYS	643.0300 TRAFFIC CONTROL DRUMS NO.	643.0300 DAYS	643.0420 BARRICADES TYPE III NO.	643.0420 DAYS	643.0705 WARNING LIGHTS TYPE A NO.	643.0705 DAYS	643.0900 SIGNS * NO.	643.0900 DAYS	643.1000 SIGNS FIXED MESSAGE** NO.	643.1000 SF
CATEGORY 0010											
CTH A / STH 76	81	--	--	2	162	4	324	1	81	--	--
CTH A / THOMPSON RD	81	--	--	2	162	4	324	1	81	--	--
CTH A / LAIRD RD	81	--	--	2	162	4	324	1	81	--	--
CTH A / MAYFLOWER RD	81	--	--	6	486	12	972	5	405	1	32
HAMPLE RD	81	--	--	4	324	8	648	9	729	--	--
STATE ST	81	--	--	2	162	4	324	5	405	--	--
CTH A / STH 47	81	--	--	8	648	16	1296	4	324	1	32
CTH A	81	50	4050	--	--	--	--	--	--	--	--
UNDISTRIBUTED			400		210		420		210		
TOTALS			**4,450**		**2,316**		**4,632**		**2,316**		**64**

* ADDITIONAL QUANITITES IN "TRAFFIC CONTROL DETOUR SIGN SUMMARY" TABLE

** FIXED MESSAGE SIGNS TO BE PLACED 1 WEEK PRIOR TO CONSTRUCTION

TRAFFIC CONTROL DETOUR SIGN SUMMARY

SIGN NO.	LOCATION	SIGN CODE	SIZE W X H	NUMBER IN SERVICE	APPROX. SERVICE PERIOD 81 DAYS	643.0900 TRAFFIC CONTROL SIGNS * DAY	643.0920 COVERING TYPE II NO OF CYCLES	643.0920 COVERING TYPE II EACH	REMARKS
CATEGORY 0010									
1	STH 76 N. OF CTH A	M3-2	24X12	1	81	81		--	
		M1-5A	24X24	1	81	81		--	
		W20-2A	48X48	1	81	81		--	
2	STH 76 N. OF CTH A, COVER EXISTING SIGN			1	81	--	1	1	COVER BINGHAMPTON
3	STH 76 N. OF CTH A, MODIFY EXISTING SIGN	M4-8	24X12	1	81	81		--	
		M3-2	24X12	1	81	81		--	
		MO6-1	21X21	1	81	81		--	
4	STH 76 N. OF CTH S	M4-8	24X12	1	81	81		--	
		M3-2	24X12	1	81	81		--	
		M1-5A	24X24	1	81	81		--	
		MO5-1L	21X21	1	81	81		--	
5	STH 76 N. OF CTH S	M4-8	24X12	1	81	81		--	
		M3-2	24X12	1	81	81		--	
		M1-5A	24X24	1	81	81		--	
		MO6-1	21X21	1	81	81		--	
6	CTH S W. OF LAIRD RD	M4-8	24X12	1	81	81		--	
		M3-2	24X12	1	81	81		--	
		M1-5A	24X24	1	81	81		--	
		MO6-1	21X21	1	81	81		--	
7	CTH S W. OF CTH A, MODIFY EXISTING SIGN	M4-8A	24X18	1	81	81		--	
		M3-2	24X12	1	81	81		--	
20	STH 47 N. OF CTH A	M3-4	24X12	1	81	81		--	
		M1-5A	24X24	1	81	81		--	
		W20-2A	48X48	1	81	81		--	
21	STH 47 N OF CTH A, MODIFY EXISTING SIGN	M4-8	24X12	1	81	81		--	
		M3-4	24X12	1	81	81		--	
		MO6-1	21X21	1	81	81		--	
22	STH 47 S OF CTH A, MODIFY EXISTING SIGN	M4-8	24X12	1	81	81		--	
		M3-4	24X12	1	81	81		--	
		M1-5A	24X24	1	81	81		--	
		MO5-2R	21X21	1	81	81		--	
23	STH 47 S OF CTH A, MODIFY EXISTING SIGN	M4-8	24X12	1	81	81		--	
		M3-4	24X12	1	81	81		--	
		MO6-1	21X21	1	81	81		--	
24	STH 47 S. OF CTH A	M4-8	24X12	1	81	81		--	
		M3-4	24X12	1	81	81		--	
		M1-5A	24X24	1	81	81		--	
		MO5-1L	21X21	1	81	81		--	
25	STH 47 S. OF CTH A	M3-4	24X12	1	81	81		--	
		M1-5A	24X24	1	81	81		--	
		W20-2A	48X48	1	81	81		--	
26	CTH A N. OF CTH S, MODIFY EXISTING SIGN	M4-8	24X12	1	81	81		--	
		M3-4	24X12	1	81	81		--	
		M1-5A	24X24	1	81	81		--	
		MO5-1R	21X21	1	81	81		--	
						PAGE SUBTOTALS	3,564	1	

* ADDITIONAL QUANTITIES IN "TRAFFIC CONTROL" TABLE

TRAFFIC CONTROL DETOUR SIGN SUMMARY CONTINUED

SIGN NO.	LOCATION	SIGN CODE	SIZE W X H	NUMBER IN SERVICE	APPROX. SERVICE PERIOD 81 DAYS	643.0900 TRAFFIC CONTROL SIGNS * DAY	NO OF CYCLES	643.0920 COVERING TYPE II EACH	REMARKS
CATEGORY 0010									
27	CTH A N. OF CTH S, MODIFY EXISTING SIGN	M4-8	24X12	1	81	81		--	
		M3-4	24X12	1	81	81		--	
		M1-5A	24X24	1	81	81		--	
		MO6-1	21X21	1	81	81		--	
28	CTH S E. OF LAIRD RD	M4-8	24X12	1	81	81		--	
		M3-4	24X12	1	81	81		--	
		M1-5A	24X24	1	81	81		--	
		MO6-1	21X21	1	81	81		--	
29	CTH S. E. OF STH 76	M4-8	24X12	1	81	81		--	
		M3-4	24X12	1	81	81		--	
		M1-5A	24X24	1	81	81		--	
		MO5-1R	21X21	1	81	81		--	
30	CTH S. E. OF STH 76	M4-8	24X12	1	81	81		--	
		M3-4	24X12	1	81	81		--	
		M1-5A	24X24	1	81	81		--	
		MO6-1	21X21	1	81	81		--	
31	STH 76 S. OF CTH A, COVER EXISTING SIGN			1	81	--	1	1	COVER BINGHAMPTON
32	STH 76 S. OF CTH A, MODIFY EXISTING SIGN	M4-8	24X12	1	81	81		--	
		M3-4	24X12	1	81	81		--	
	COVER EXISTING SIGN			1	81	--	1	1	COVER ARROW
40	CTH A S. OF CTH S	M3-4	24X12	1	81	81		--	
		M1-5A	24X24	1	81	81		--	
		W20-2A	48X48	1	81	81		--	
41	CTH A S. OF CTH S	M4-8	24X12	1	81	81		--	
		M3-4	24X12	1	81	81		--	
		M1-5A	24X24	1	81	81		--	
		MO5-1L	21X21	1	81	81		--	
42	CTH A S. OF CTH S	M4-8	24X12	1	81	81		--	
		M3-4	24X12	1	81	81		--	
		M1-5A	24X24	1	81	81		--	
		MO6-1	21X21	1	81	81		--	
43	STH 76 S. OF CTH S	M3-2	24X12	1	81	81		--	
		M1-5A	24X24	1	81	81		--	
		W20-2A	48X48	1	81	81		--	
44	STH 76 S. OF CTH S	M4-8	24X12	1	81	81		--	
		M3-2	24X12	1	81	81		--	
		M1-5A	24X24	1	81	81		--	
		MO5-1R	21X21	1	81	81		--	
45	STH 76 S. OF CTH S	M4-8	24X12	1	81	81		--	
		M3-2	24X12	1	81	81		--	
		M1-5A	24X24	1	81	81		--	
		MO6-1	21X21	1	81	81		--	
					PAGE SUBTOTALS	3,240		2	
					PROJECT TOTALS	6,804		3	

* ADDITIONAL QUANTITIES IN "TRAFFIC CONTROL" TABLE

CONSTRUCTION STAKING

STATION	TO	STATION	LOCATION	650.4000 CONSTRUCTION STAKING STORM SEWER EACH	650.4500 CONSTRUCTION STAKING SUBGRADE LF	650.5000 CONSTRUCTION STAKING BASE LF	650.5500 CONSTRUCTION STAKING CURB GUTTER AND CURB & GUTTER LF	650.6000 CONSTRUCTION STAKING PIPE CULVERTS EACH	650.9910 CONSTRUCTION STAKING SUPPLEMENTAL CONTROL PROJECT 6505-03-71 LS	650.9920 CONSTRUCTION STAKING SLOPE STAKES LF
CATEGORY 0010										
229+00	-	240+00	CTH A		1100	1100			1	1100
240+00	-	250+00	CTH A		1000	1000	100			1000
250+00	-	260+00	CTH A		1000	1000	1140			1000
260+00	-	270+00	CTH A		1000	1000				1000
270+00	-	280+00	CTH A		1000	1000	280	1		1000
280+00	-	290+00	CTH A	6	1000	1000	425			1000
290+00	-	300+00	CTH A		1000	1000		2		1000
300+00	-	310+00	CTH A		1000	1000				1000
310+00	-	320+00	CTH A		1000	1000		1		1000
320+00	-	330+00	CTH A		1000	1000				1000
330+00	-	343+73	CTH A		1373	1373		1		1373
100+11	-	101+00	HAMPLE RD		89	89	165			89
102+25	-	103+27	HAMPLE RD		102	102	165	1		102
110+50	-	111+75	STATE RD		125	125	155	1		125
			PROJECT TOTALS	6	11,789	11,789	2,430	7	1	11,789

SAWING

STATION	DIR	LOCATION	690.0150 ASPHALT LF
CATEGORY 0010			
229+00	-	CTH A	24
229+25	LT	CTH A	14
244+90	LT	CTH A	13
246+88	RT	CTH A	12
248+19	LT	CTH A	14
252+81	LT	CTH A	20
274+53	LT	CTH A	40
285+65-288+25	LT	CTH A	260
288+66	RT	CTH A	16
307+25	RT	CTH A	12
313+89	LT	CTH A	25
326+00	LT	CTH A	11
339+32	LT	CTH A	25
343+73	-	CTH A	40
100+11	-	HAMPLE RD	40
103+27	-	HAMPLE RD	20
111+75	-	STATE RD	24
		PROJECT TOTAL	610

PARCEL MONUMENTS

STATION	TO	STATION	LOCATION	SPV.0060.01 RESEARCH AND LOCATE EXISTING LAND PARCEL MONUMENTS EACH	SPV.0060.02 VERIFY AND REPLACE EXISTING PARCEL MONUMENTS EACH
CATEGORY 0010					
229+00	-	343+73	CTH A	20	20
UNDISTRIBUTED			CTH A	5	5
			PROJECT TOTALS	25	25

PIPE SLURRY BACKFILL

STATION	ROADWAY	SPV.0035.01 PIPE SLURRY BACKFILL CY
CATEGORY 0010		
297+30	CTH A	105

PROJECT TOTALS 105

Conventional Signs and Abbreviations

- SECTION LINE
- QUARTER LINE
- TOWNSHIP AND RANGE LINE
- PROPOSED OR NEW CENTERLINE
- PROPOSED OR NEW R/W LINE
- EXISTING R/W LINE
- LOT LINE
- P.L. PROPERTY LINE
- COUNTY LIMITS LINE
- SLOPE INTERCEPTS
- EXISTING MONUMENTATION
- X FENCE
- SECTION OR QUARTER CORNER
- T TELEPHONE
- G GAS
- W WATER
- E ELECTRIC
- FO FIBER OPTIC
- SAN SANITARY
- SS STORM SEWER
- NO ACCESS (BY ACQUISITION)
- NO ACCESS (BY STATUTORY AUTHORITY)
- NO ACCESS (BY PREVIOUS PROJECT)
- TEMPORARY LIMITED EASEMENT
- HIGHWAY EASEMENT
- FEE TITLE
- RIGHT-OF-WAY MONUMENTS SET AT NEWLY ACQUIRED R/W ANGLE POINTS
- (6) PARCEL NUMBER
- (92) UTILITY PARCEL NUMBER
- (15) RIGHT-OF-WAY POINT NUMBER
- [25] HIGHWAY EASEMENT POINT NUMBER

AC	ACRES	PC LINE	PRIVATE CLAIM LINE
Δ	CENTRAL ANGLE	R	RADIUS
C/L	CENTERLINE	R.	RANGE
COR.	CORNER	R/L	REFERENCE LINE
CTH	COUNTY TRUNK HIGHWAY	R/W	RIGHT OF WAY
D	DEGREE OF CURVE	1/4 LINE	QUARTER LINE
E.	EAST	1/16 LINE	SIXTEENTH LINE
HE	HIGHWAY EASEMENT	S.	SOUTH
L	LENGTH OF CURVE	SEC	SECTION
LC	LONG CHORD	SEC LINE	SECTION LINE
LCB	LONG CHORD BEARING	STH	STATE TRUNK HIGHWAY
MI	MILE	SF	SQUARE FEET
N.	NORTH	STA	STATION
N.T.S.	NOT TO SCALE	T.	TOWN
PC	POINT OF CURVATURE	T	TANGENT LENGTH OF CURVE
PI	POINT OF INTERSECTION	TLE	TEMPORARY LIMITED EASEMENT
PT	POINT OF TANGENCY	USH	UNITED STATES HIGHWAY
PLE	PERMANENT LIMITED EASEMENT	W.	WEST
P/L	PROPERTY LINE		

- POWER POLE
- TELEPHONE POLE
- TELEPHONE PEDESTAL

REVISIONS	R/W PROJECT NUMBER	SHEET NUMBER	TOTAL SHEETS
9-17-2017		4.01	13
12-11-2017	FEDERAL PROJECT NUMBER		

PLAT OF RIGHT-OF-WAY REQUIRED FOR

CTH A

MAYFLOWER RD. TO STH 47

TOWN OF BLACK CREEK — OUTAGAMIE COUNTY

CONSTRUCTION PROJECT NUMBER

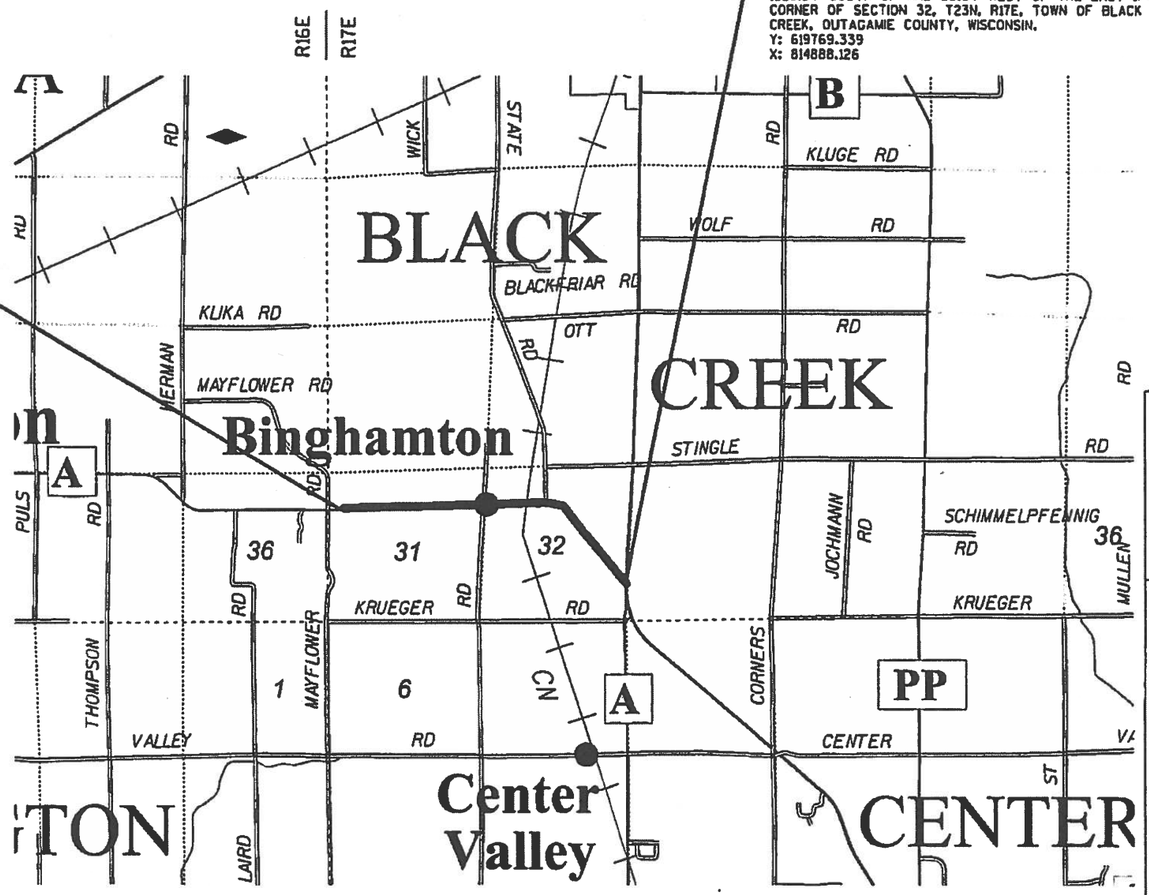
6505-03-71

(OUTAGAMIE COUNTY)
BEGIN RELOCATION ORDER
STATION 229+00.00

1314.88' SOUTH OF AND 198.60' EAST OF THE NORTHWEST CORNER OF SECTION 31, T23N, R17E, TOWN OF BLACK CREEK, OUTAGAMIE COUNTY WISCONSIN.
Y: 622287.542
X: 804388.995

(OUTAGAMIE COUNTY)
END RELOCATION ORDER
STATION 344+86.39

1226.54' SOUTH OF AND 80.84' WEST OF THE EAST 1/4 CORNER OF SECTION 32, T23N, R17E, TOWN OF BLACK CREEK, OUTAGAMIE COUNTY, WISCONSIN.
Y: 619769.339
X: 814888.126



LAYOUT
SCALE 0 5000' 10000'

TOTAL NET LENGTH OF CENTERLINE = 2.19 MI.

Notes:

POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COORDINATE REFERENCE SYSTEM COORDINATES (WISCORS), OUTAGAMIE COUNTY, NAD 83 (1998) IN US SURVEY FEET. VALUES SHOWN ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

RIGHT OF WAY MONUMENTS ARE TYPE 2 MONUMENTS (TYPICALLY 3/4 X 24" REBAR) AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT.

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

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

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

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

A HIGHWAY EASEMENT (HE) IS AN EASEMENT FOR HIGHWAY PURPOSES, AS LONG AS SO USED, INCLUDING THE RIGHT TO PRESERVE, PROTECT, REMOVE OR PLANT THEREON ANY VEGETATION THAT THE HIGHWAY AUTHORITIES MAY DEEM NECESSARY OR DESIRABLE.

OUTAGAMIE COUNTY HIGHWAY 'A' HAS THE DESIGNATION OF A "CONTROLLED ACCESS HIGHWAY" AS SET FORTH IN A FINDING, DETERMINATION AND DECLARATION RECORDED IN THE OFFICE OF THE REGISTER OF DEEDS ON MARCH 25, 1988 IN JACKET 8320, IMAGES 15-25, AS DOCUMENT NUMBER 922501. FOR FURTHER INFORMATION CONTACT THE OUTAGAMIE COUNTY PLANNING DEPARTMENT.

EXISTING HIGHWAY RIGHT-OF-WAY SHOWN HEREON IS BASED UPON THE FOLLOWING:
OUTAGAMIE COUNTY HIGHWAY A RIGHT-OF-WAY MONUMENTATION PLAT, JANUARY 2008
CTH A WDOT RIGHT-OF-WAY PLAT PROJECT S 1254 (1), MARCH 1958
RIGHT-OF-WAY MAP OF CTH A, FRANK M. CHARLESWORTH, JANUARY 1955
VARIOUS OUTAGAMIE COUNTY CERTIFIED SURVEY MAPS; 1743, 2167, 2227, 2442, 2560, 2687, 2958, 3474, 4383, 5383 AND 6454.

ACCEPTED FOR
OUTAGAMIE COUNTY

4/24/17 (Date)
HIGHWAY COMMISSIONER (Signature & Title of Official)

ORIGINAL PLAT PREPARED BY
OMNNI ASSOCIATES
APPLETON, WISCONSIN

WISCONSIN
PAUL D. NORDWIG
S-2784
WRIGHTSTOWN, WI
PROFESSIONAL LAND SURVEYOR

April 24, 2017 (Date) Paul D. Nordwig (Signature)

OUTAGAMIE COUNTY

LEVELS ON = 01, 02, 03, 04, 05, 06, 07, 08, 09, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63

SCHEDULE OF LANDS & INTERESTS REQUIRED

OWNERS NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTEREST TO THE COUNTY OF OUTAGAMIE.

PARCEL NUMBER	PLAT SHEET NUMBER	OWNER	INT. REQD.	TOTAL AREA	AREA ACRES REQUIRED NEW	EXISTING	TOTAL	TOTAL AREA REMAINING	TLE Area	HE Area
60	4.05	DEWAYNE G. OSTERLING & PATSY LEE OSTERLING	TLE	1.17 AC	----	----	----	1.17AC	0.01 AC	----
61	4.05	FRANK J. SAUSEN	TLE	22.55 AC	----	----	----	42.50 AC	0.06 AC	----
62	4.05	JOHN J. SALM	TLE	1.52 AC	----	----	----	1.52 AC	0.05 AC	----
63	4.05	KELLIE A. HILL, A/K/A KELLIE HILL, DOC. 2032129 & DOC. 1769317 & JAMES L. KENT & MARY B. KENT DOC. 1699065	TLE	5.02 AC	----	----	----	5.02 AC	0.01 AC	----
64	4.06	DANIEL R. DELIKOWSKI & JEAN A. DELIKOWSKI, TRUSTEES OF THE DANIEL R. DELIKOWSKI AND JEAN A. DELIKOWSKI REVOCABLE TRUST, DATED 09/27/07	FEE	5.90 AC	0.02 AC	----	0.02 AC	5.88 AC	----	----
66	4.06	JOSHUA P. BARTH	FEE	1.04 AC	0.01 AC	----	0.01 AC	1.03 AC	----	----
67	4.06	TIM NIELAND & BRENDA NIELAND	FEE	1.00 AC	0.04 AC	----	0.04 AC	0.96 AC	----	----
68	4.06	PAUL J. VERHAGEN	FEE	1.01 AC	0.02 AC	----	0.02 AC	0.99 AC	----	----
69	4.07	FRANK J. SAUSEN, MARY BUETTNER & BARBARA SAUSEN, AS TRUSTEES OF THE FRANK J. SAUSEN REVOCABLE TRUST DATED NOVEMBER 16, 2016	TLE	20.00 AC	----	----	----	20.00 AC	0.01 AC	----
71	4.06, 4.07	JEREMIAH J. STEVENS & TIFFANY A. REILAND	TLE	3.18 AC	----	----	----	3.18 AC	0.14 AC	----
72	4.07	TODD D. FRAHM & JENNIFER L. PAALMAN	TLE	1.00 AC	----	----	----	1.00 AC	0.01 AC	----
73	4.07, 4.08	JULE VAN HANDEL & JOAN VAN HANDEL EACH AN UNDIVIDED 1/2 INTEREST AS TENANTS IN COMMON	TLE	40.00 AC	----	----	----	40.00 AC	0.32 AC	----
74	4.07	WILLIAM P. BOTZET & DIANE M. HAWLEY	TLE	14.15 AC	----	----	----	14.15 AC	0.07 AC	----
76	4.07, 4.08	EUGENE R. BLAKE & AUDREY J. HOOYMAN-BLAKE, TRUSTEES OF THE EUGENE R. BLAKE AND AUDREY J. HOOYMAN-BLAKE REVOCABLE TRUST, DATED OCTOBER 5, 2006	TLE	23.04 AC	----	----	----	23.04 AC	0.02 AC	----
77	4.08	JAMES S. KLEIBER, JR. & MARY JO VOLKMAN	TLE	4.99 AC	----	----	----	4.99 AC	0.06 AC	----
79	4.09	KEVIN A. VANDEHEY	FEE	1.66 AC	0.08 AC	----	0.08 AC	1.58 AC	----	----
81	4.09	TODD RETTLER & MELISSA RETTLER	FEE TLE	0.57 AC	0.04 AC	----	0.04 AC	0.53 AC	0.05 AC	----
82	4.09	BASEMENT REPAIR SPECIALISTS, LLC	FEE TLE	0.59 AC	0.02 AC	----	0.02 AC	0.57 AC	0.03 AC	----
83	4.09	ROMENESKO & BALTHAZOR ENTERPRISES, LLC	FEE TLE	4.00 AC	0.08 AC	----	0.08 AC	3.92 AC	0.05 AC	----
84	4.10	KEITH M. ROMENESKO, A ONE-HALF UNDIVIDED JOINT TENANT INTEREST & DAWN M. BALTHAZOR, A ONE-HALF UNDIVIDED JOINT TENANT INTEREST	FEE	32.13 AC	0.04 AC	----	0.04 AC	32.09 AC	----	----
86	4.09, 4.10	ALLEN L. CHIZEK & CARLA R. CHIZEK	FEE TLE	36.90 AC	0.29 AC	----	0.29 AC	36.61 AC	0.03 AC	----
87	4.10	THOMAS J. BEYER	FEE TLE	2.97 AC	0.04 AC	----	0.04 AC	2.93 AC	0.01 AC	----
88	4.10, 4.11	RONALD L. WELCH	FEE TLE	28.19 AC	0.35 AC	----	0.35 AC	27.84 AC	0.12 AC	----
89	4.10, 4.11	BRETT C. EBBEN	FEE TLE	17.10 AC	0.29 AC	----	0.29 AC	16.81 AC	0.01 AC	----
91	4.11	MARIA L. HOPPE, F/K/A MARIA L. VAN THULL	FEE TLE	16.88 AC	0.02 AC	----	0.02 AC	16.86 AC	0.07 AC	----
92	4.11	STEVEN D. RUDOLPH & ROXANNE L. RUDOLPH	FEE TLE	5.00 AC	0.06 AC	----	0.06 AC	4.94 AC	0.02 AC	----
93	4.11, 4.12	SCOTT A. VERBOOMEN	FEE TLE	7.72 AC	0.13 AC	----	0.13 AC	7.59 AC	0.01 AC	----
94	4.11, 4.12	VANDELOO FARMS, LLC VENDEES LAND CONTRACT BETTY J.M. WIECKERT, TRUSTEE OF THE BETTY J.M. WIECKERT SURVIVOR'S TRUST, VENDORS	FEE	24.28	0.15 AC	----	0.15 AC	24.13 AC	----	----
96	4.12	SALIETE T. BIAGINI	FEE	10.01 AC	0.08 AC	----	0.08 AC	9.93 AC	----	----
97	4.12	JACOB L. DERPINGHAUS	FEE	1.64 AC	0.04 AC	----	0.04 AC	1.60 AC	----	----
98	4.12	JEFFERY J. KOLLER & JEAN M. KOLLER	FEE	5.07 AC	0.04 AC	0.16 AC	0.20 AC	4.87 AC	----	----
99	4.12, 4.13	GARY J. RAMSEY & COLETTE D. RAMSEY	FEE TLE	3.81 AC	0.14 AC	----	0.14 AC	3.67 AC	0.05 AC	----
101	4.12	BRUCE A. FISCHER & KAREN M. FISCHER	FEE	1.50 AC	0.04 AC	----	0.04 AC	1.46 AC	----	----
102	4.12, 4.13	ROBERT E. DERUS & DONNA M. DERUS	FEE	6.93 AC	0.05 AC	----	0.05 AC	6.88 AC	----	----
103	4.13	KENNETH P. WAGNER & DENISE M. WAGNER	FEE TLE	35.14 AC	0.06 AC	----	0.06 AC	35.08 AC	0.02 AC	----
104	4.13	HIGHWAY 47 STORAGE, LLC	FEE TLE	12.57 AC	0.24 AC	----	0.24 AC	12.33 AC	0.01 AC	----
106	4.13	MARCUS V. BIAGINI & RACHEL N. BIAGINI	FEE	2.14 AC	0.06 AC	----	0.06 AC	2.08 AC	----	----
107	4.13	FREEDOM DEVELOPMENT SERVICES, LLC A WISCONSIN LIMITED LIABILITY COMPANY VIA DOC #1749909	FEE	4.13 AC	0.07 AC	----	0.07 AC	4.06 AC	----	----
108	4.08	DYKE HOLDINGS-WISCONSIN, L.L.C., A WISCONSIN LIMITED LIABILITY COMPANY N/K/A DYKE HOLDINGS, LLC, A SOUTH DAKOTA LIMITED LIABILITY COMPANY	TLE	32.24 AC	----	----	----	32.24 AC	0.03 AC	----
109	4.09	RODNEY T. SOLEM & SHIRLEY SOLEM	TLE	1.00 AC	----	----	----	1.00 AC	0.01 AC	----
111	4.05, 4.06	WAYNE M. SCHMIDT & DORIS J. SCHMIDT	TLE	46.01 AC	----	----	----	46.01 AC	0.13 AC	----
112	4.08	ANTHONY R. HABECK	TLE	1.00 AC	----	----	----	1.00 AC	0.09 AC	----
113	4.09	ADAM R. GRIESBACH & LORI A. GRIESBACH	TLE	1.08 AC	----	----	----	1.08 AC	0.03 AC	----
114	4.10	WISCONSIN CENTRAL LTD	HE		----	----	----		----	0.28 AC
116	4.11	LANCE SCHROTH & THERESA SCHROTH	TLE	6.00 AC	----	----	----	6.00 AC	0.02 AC	----
201	4.05, 4.06, 4.07, 4.08, 4.09, 4.10, 4.11, 4.12, 4.13	WE ENERGIES	RELEASE OF RIGHTS	----	----	----	----	----	----	----
202	4.11,4.12,4.13	AT&T	RELEASE OF RIGHTS	----	----	----	----	----	----	----
203	4.06,4.07,4.08,4.09	CENTURYLINK	RELEASE OF RIGHTS	----	----	----	----	----	----	----

4

TOWN

SECTION 31

OF

CTH A

N. MAYFLOWER RD

SEC LINE

FRACTIONAL
NW-NW

60 DEWAYNE G. OSTERLING & PATSY LEE OSTERLING

GLEN TANK & CINDY JOHNSON-TANK

62 JOHN J. SALM

63 KELLIE A. HILL, A/K/A KELLIE HILL, DOC. 2032129 & DOC. 1769317 & JAMES L. KENT & MARY B. KENT DOC. 1699065

61 FRANK J. SAUSEN

64 DANIEL R. DELIKOWSKI & JEAN A. DELIKOWSKI, TRUSTEES OF THE DANIEL R. DELIKOWSKI AND JEAN A. DELIKOWSKI REVOCABLE TRUST, DATED 09/27/07

66 JOSHUA P. BARTH

NE-NW

67 TIM NIELAND & BRENDA NIELAND

68 PAUL J. VERHAGEN

69 FRANK J. SAUSEN, MARY BUETTNER & BARBARA SAUSEN AS TRUSTEES OF THE FRANK J. SAUSEN REVOCABLE TRUST DATED 11-16-2017

P/L

4

4

111 WAYNE M. SCHMIDT & DORIS J. SCHMIDT VENDEES LAND CONTRACT LESLIE W. SCHMIDT ESTATE BY PERSONAL REPRESENTATIVE, WAYNE M. SCHMIDT VENDORS

DEWEY SCHMIDT

71 JEREMIAH J. STEVENS & TIFFANY A. REILAND

SE-NW

BLACK CREEK

¼ LINE

FRACTIONAL
SW-NW

SECTION 31

N

TOWN

SECTION 31

NW-NE

72 TODD D. FRAHM & JENNIFER L. PAALMAN

74 WILLIAM P. BOTZET & DIANE M. HAWLEY

76 EUGENE R. BLAKE & AUDREY J. HOOYMAN-BLAKE, TRUSTEES OF THE EUGENE R. BLAKE & AUDREY J. HOOYMAN-BLAKE REVOCABLE TRUST, DATED OCTOBER 5, 2006

1/16 LINE

108 DYKE HOLDINGS-WISCONSIN, L.L.C., A WISCONSIN LIMITED LIABILITY COMPANY N/K/A DYKE HOLDINGS, LLC, A SOUTH DAKOTA LIMITED LIABILITY COMPANY

NE-NE

109 RODNEY T. SOLEM & SHIRLEY SOLEM

79 KEVIN A. VANDEHEY

SEC LINE

HAMPLE RD

83 ROMENESKO & BALTHAZOR ENTERPRISES, LLC

K

6

CTH A

73 JULE VAN HANDEL & JOAN VAN HANDEL EACH AN UNDIVIDED 1/2 INTEREST AS TENANTS IN COMMON

77 JAMES S. KLEIBER, JR. & MARY JO VOLKMAN

SW-NE

SE-NE

NEIGHBORHOOD ACRES LLC, A WISCONSIN LIMITED LIABILITY COMPANY

112 ANTHONY R. HABECK

113 ADAM R. GRIESBACH & LORI A. GRIESBACH

81 TODD RETTLER & MELISSA RETTLER

82 BASEMENT REPAIR SPECIALISTS, LLC

PAULA BOYLAN

SEC LINE

¼ LINE

SECTION 31

BLACK CREEK

REVISION DATE 9-19-2017 NC, 12-11-2017 NC	DATE 4-24-17	SCALE, FEET 0 100 200	HWY: CTH A	STATE R/W PROJECT NUMBER	PLAT SHEET 4.03
	GRID FACTOR		COUNTY: OUTAGAMIE	CONSTRUCTION PROJECT NUMBER:6505-03-71	PS&E SHEET 43 E

FILE NAME : F:\TR\JOBS\E2182A15\CIVIL 3D 2014\RW\E2182-010101-RW.DWG PLOT DATE : 3/29/2017 8:47 AM PLOT BY : DAVE A. YURK PLOT NAME : PLOT SCALE : ********

WISDOT/CADDS SHEET 75

TOWN OF BLACK CREEK

SECTION 32

N

STATE RD

WISCONSIN CENTRAL LTD

CTH A

CTH A

STH 47

SEC LINE

1/4 LINE

1/16 LINE

P/L

NW-NW

NE-NW

SW-NW

SE-NW

NW-NE

SW-NE

SE-NE

NE-SE

NW-SE

SE-SE

(83) ROMENESKO & BALTHAZOR ENTERPRISES, LLC

(84) KEITH M. ROMENESKO, A ONE-HALF UNDIVIDED JOINT TENANT INTEREST & DAWN M. BALTHAZOR, A ONE-HALF UNDIVIDED JOINT TENANT INTEREST

(86) ALLEN L. CHIZEK & CARLA R. CHIZEK

(87) THOMAS J. BEYER

(88) RONALD L. WELCH

(88) RONALD L. WELCH

(89) BRETT C. EBBEN

(91) MARIA L. HOPPE, F/K/A MARIA L. VAN THULL

(92) STEVEN D. RUDOLPH & ROXANNE L. RUDOLPH

(92) STEVEN D. RUDOLPH & ROXANNE L. RUDOLPH

(93) SCOTT A. VERBOOMEN

(94) VANDELOO FARMS, LLC VENDEES LAND CONTRACT BETTY J.M. WIECKERT, TRUSTEE OF THE BETTY J.M. WIECKERT SURVIVOR'S TRUST, VENDORS

(96) SALIETE T. BIAGINI

(97) JACOB L. DERPINGHAUS

(98) JEFFERY J. KOLLER & JEAN M. KOLLER

(99) GARY J. RAMSEY & COLETTE D. RAMSEY

(101) BRUCE A. FISCHER & KAREN M. FISCHER

(102) ROBERT E. DERUS & DONNA M. DERUS

(103) KENNETH P. WAGNER & DENISE M. WAGNER

(103) KENNETH P. WAGNER & DENISE M. WAGNER

(104) HIGHWAY 47 STORAGE, LLC

(106) MARCUS V. BIAGINI & RACHEL N. BIAGINI

(107) FREEDOM DEVELOPMENT SERVICES, LLC A WISCONSIN LIMITED LIABILITY COMPANY VIA DOC #1749909

(114)

(116) LANCE SCHROTH & THERESA SCHROTHL

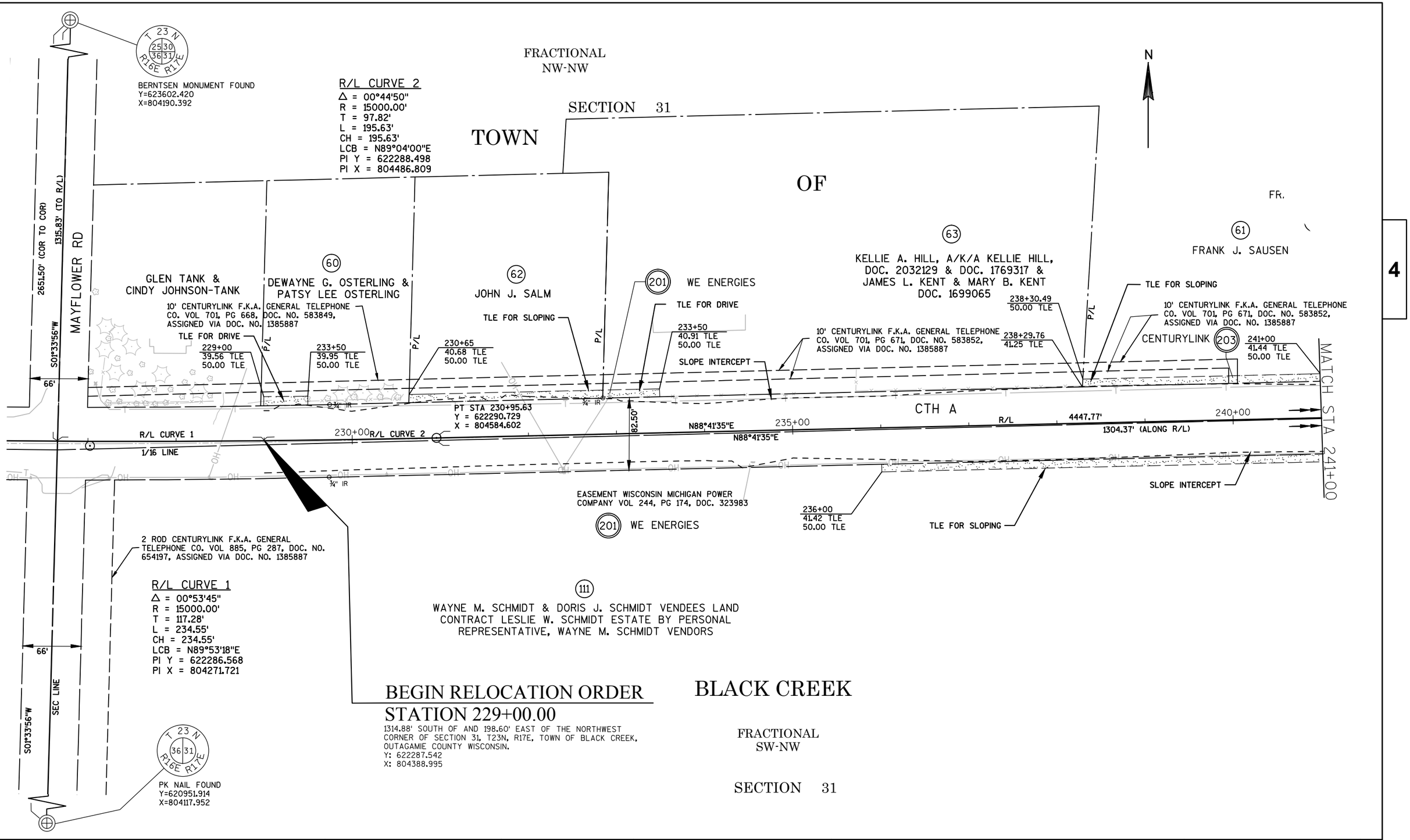
4

4

REVISION DATE 9-19-2017 12-11-2017 NC	DATE 4-24-17	SCALE, FEET 0 100 200	HWY: CTH A	STATE R/W PROJECT NUMBER	PLAT SHEET 4.04
	GRID FACTOR		COUNTY: OUTAGAMIE	CONSTRUCTION PROJECT NUMBER:6505-03-71	PS&E SHEET 44 E

FILE NAME : F:\TR\JOBS\E2182A15\CIVIL 3D 2014\RW\E2182-010101-RW.DWG PLOT DATE : 3/29/2017 8:47 AM PLOT BY : DAVE A. YURK PLOT NAME : PLOT SCALE : ********

WISDOT/CADDS SHEET 75



REVISION DATE 9-19-2017 NC 12-11-2017 NC	DATE 4-24-17	SCALE, FEET 0 50 100	HWY: CTH A	STATE R/W PROJECT NUMBER	PLAT SHEET 4.05
	GRID FACTOR N/A		COUNTY: OUTAGAMIE	CONSTRUCTION PROJECT NUMBER: 6505-03-71	PS&E SHEET 45 E

FILE NAME : F:\TR\JOBS\E2182A15\CIVIL 3D 2014\RW\E2182-010101-RW.DWG PLOT DATE : 3/28/2017 4:36 PM PLOT BY : DAVE A. YURK PLOT NAME : _____ PLOT SCALE : ********

WISDOT/CADDS SHEET 75

SECTION 31

TOWN

NE-NW

FRACTIONAL
NW-NW

1/16 LINE

FRANK J. SAUSEN

61

64

DANIEL R. DELIKOWSKI & JEAN A. DELIKOWSKI,
TRUSTEES OF THE DANIEL R. DELIKOWSKI AND
JEAN A. DELIKOWSKI REVOCABLE TRUST, DATED
09/27/07

70' X 40' JOINT INGRESS/EGRESS EASEMENT
PER CSM #3474

LOT 2
CSM #3474
VOL. 18 PAGE 3474
DOC. #1322741

66

JOSHUA P. BARTH

TIM NIELAND &
BRENDA NIELAND

67

LOT 1
CSM #3474
VOL. 18 PAGE 3474
DOC. #1322741

68

PAUL J. VERHAGEN

FRANK J. SAUSEN, MARY BUETTNER &
BARBARA SAUSEN AS TRUSTEES OF THE
FRANK J. SAUSEN REVOCABLE TRUST
DATED 11-16-2017

69

10' EASEMENT FOR PUBLIC UTILITIES
CENTURYLINK F.K.A. GENERAL TELEPHONE CO.
VOL. 701 PAGE 674, DOC. NO. 583855,
ASSIGNED VIA DOC. NO. 1385887

108 244+00 41.65 R/W

109 245+00 50.00 R/W

110 248+50 50.00 R/W

111 249+50 42.03 R/W

P/L

N83°55'09"E 100.35'

N88°41'35"E

S88°39'11"W 550.00'

350.00'

S86°45'06"E 100.32'

SLOPE INTERCEPT

3/4" IR

3/4" IR

MATCH STA 241+00

MATCH STA 254+00

STA. 242+72.57

N88°41'35"E 1304.37' (ALONG R/L)

N01°18'05"W 41.65'

245+00

82.50'

R/L

CTH A

250+00

4447.77'

1/16 LINE

242+50
40.96 TLE
50.00 TLE

TLE FOR SLOPING

SLOPE INTERCEPT

253+50
40.96 TLE
50.00 TLE

254+00
50.00 TLE

TLE FOR SLOPING

15' DRIVEWAY ACCESS PER DOCUMENT 729280

71

JEREMIAH J. STEVENS &
TIFFANY A. REILAND

WE ENERGIES 201

EASEMENT WISCONSIN MICHIGAN POWER
COMPANY VOL 244, PG 180, DOC. 323989

DEWEY SCHMIDT

1331.71' (TO R/L)

N03°23'56"E

1/16 LINE

SE-NW

SECTION 31

BLACK CREEK

FRACTIONAL
SW-NW

111

WAYNE M. SCHMIDT & DORIS J. SCHMIDT
VENDEES LAND CONTRACT
LESLIE W. SCHMIDT ESTATE
BY PERSONAL REPRESENTATIVE,
WAYNE M. SCHMIDT VENDOR

T 23 N R 16 E 36 31 R 17 E

N88°40'16"E 1564.75'

S88°40'16"W 1365.93'

1/4 LINE

PK NAIL FOUND
Y = 620951.914
X = 804117.952

T 23 N 31 R 17 E

OUTAGAMIE COUNTY
MONUMENT FOUND
Y = 621019.881
X = 807047.844

R/W COORDINATE TABLE

POINT #	Y	X
108	622362.119	805887.680
109	622372.749	805987.464
110	622380.732	806337.373
111	622375.047	806437.528

REVISION DATE 9-19-2017 NC, 12-11-2017 NC	DATE 4-24-17	SCALE, FEET 0 50 100	HWY: CTH A
GRID FACTOR N/A			COUNTY: OUTAGAMIE

STATE R/W PROJECT NUMBER	PLAT SHEET 4.06
CONSTRUCTION PROJECT NUMBER: 6505-03-71	PS&E SHEET 46 E

FILE NAME : F:\TR\JOBS\E2182A15\CIVIL 3D 2014\RW\E2182-010101-RW.DWG PLOT DATE : 3/28/2017 4:41 PM PLOT BY : DAVE A. YURK PLOT NAME : PLOT SCALE : ********

WISDOT/CADDS SHEET 75

4

T23N 30 31 R17E

OUTAGAMIE COUNTY MONUMENT, FOUND
X = 807256.175
Y = 623682.923

(COR TO COR) 1333.48' (TO R/L)

NE-NW

TOWN OF SECTION 31

NW-NE

N

(76) EUGENE R. BLAKE & AUDREY J. HOOYMAN-BLAKE, TRUSTEES OF THE EUGENE R. BLAKE AND AUDREY J. HOOYMAN-BLAKE REVOCABLE TRUST, DATED OCTOBER 5, 2006

FRANK J. SAUSEN, MARY BUETTNER & BARBARA SAUSEN, AS TRUSTEES OF THE FRANK J. SAUSEN REVOCABLE TRUSTDATED NOVEMBER 15, 2015

(69)

LOT 1
CSM #2227
VOL. 12 PAGE 2227
DOC. #1155176

(72) TODD D. FRAHM & JENNIFER L. PAALMAN

2671.18' N04°28'23"E

10' EASEMENT FOR PUBLIC UTILITIES CENTURYLINK F.K.A. GENERAL TELEPHONE CO. VOL. 701 PAGE 674, DOC. NO. 583855, ASSIGNED VIA DOC. NO. 1385887

10' EASEMENT FOR PUBLIC UTILITIES CENTURYLINK F.K.A. GENERAL TELEPHONE CO. VOL. 701 PAGE 673, DOC. NO. 583854, ASSIGNED VIA DOC. NO. 1385887

10' EASEMENT FOR PUBLIC UTILITIES CENTURYLINK F.K.A. GENERAL TELEPHONE CO. VOL. 701 PAGE 673, DOC. NO. 583854, ASSIGNED VIA DOC. NO. 1385887

(74) WILLIAM P. BOTZET & DIANE M. HAWLEY

(203) CENTURYLINK
16.5' INGRESS/EGRESS EASEMENT PER J. 7908 I. 12-15. DOC. 923323 AND J. 7890 I. 28-31. DOC. 922910

(203) CENTURYLINK
10' EASEMENT FOR PUBLIC UTILITIES CENTURYLINK F.K.A. GENERAL TELEPHONE CO. VOL. 701 PAGE 673, DOC. NO. 583854, ASSIGNED VIA DOC. NO. 1385887

254+75
42.40 TLE
45.00 TLE

260+50
45.00 TLE
50.00 TLE

264+50
41.84 TLE
50.00 TLE

TLE FOR SLOPING

SLOPE INTERCEPT

MATCH STA 254+00

MATCH STA 267+00

¾" IR

STA. 256+63.54

N88°41'35"E

255+00

260+00

R/L

CTH A

82.50'

4447.77'

265+00

1/16 LINE

P/L

254+00
50.00 TLE

256+00
70.00 TLE

257+00
70.00 TLE

258+00
50.00 TLE

SLOPE INTERCEPT

EASEMENT WISCONSIN MICHIGAN POWER COMPANY VOL 244, PG 180, DOC. 323989

(201) WE ENERGIES

TLE FOR SLOPING

JULE VAN HANDEL & JOAN VAN HANDEL EACH AN UNDIVIDED 1/2 INTEREST AS TENANTS IN COMMON

(73)

(71) JEREMIAH J. STEVENS & TIFFANY A. REILAND

1/4 LINE

SE-NW

SW-NE

SECTION 31 BLACK CREEK

S04°28'23"W

OUTAGAMIE COUNTY MONUMENT, FOUND
X = 807047.844
Y = 621019.881

T 23 N 31 R 17 E

REVISION DATE 9-19-2017 NC, 12-11-2017 NC	DATE 4-24-17	SCALE, FEET 0 50 100	HWY: CTH A	STATE R/W PROJECT NUMBER	PLAT SHEET 4.07
	GRID FACTOR N/A		COUNTY: OUTAGAMIE	CONSTRUCTION PROJECT NUMBER: 6505-03-71	PS&E SHEET 47 E

FILE NAME : F:\TR\JOBS\E2182A15\CIVIL 3D 2014\RW\E2182-010101-RW.DWG PLOT DATE : 3/28/2017 4:37 PM PLOT BY : DAVE A. YURK PLOT NAME : _____ PLOT SCALE : ********

4

N

SECTION 31

TOWN

NE-NE

OF

(76) NW-NE

EUGENE R. BLAKE & AUDREY J. HOOYMAN-BLAKE, TRUSTEES OF THE EUGENE R. BLAKE AND AUDREY J. HOOYMAN-BLAKE REVOCABLE TRUST, DATED OCTOBER 5, 2006

10' EASEMENT FOR PUBLIC UTILITIES
CENTURYLINK F.K.A. GENERAL TELEPHONE CO.
VOL. 701 PAGE 673, DOC. NO. 583854
ASSIGNED VIA DOC. NO. 1385887

1/16 LINE

P/L

MATCH STA 267+00

¾" IR

N88°41'35"E

270+00

4447.77'

STA. 269+80.34

82.50'

CTH A

R/L

1/16 LINE

275+00

PC STA 275+43.40
Y = 622392.179
X = 809031.211

R/L CURVE 3

PT STA 279+70.39
Y = 622398.842
X = 809458.177

MATCH STA 280+00

DYKE HOLDINGS-WISCONSIN, L.L.C., A WISCONSIN LIMITED LIABILITY COMPANY N/K/A DYKE HOLDINGS, LLC, A SOUTH DAKOTA LIMITED LIABILITY COMPANY

(108)

SLOPE INTERCEPT

274+00
40.22 TLE

274+25
50.00 TLE

TLE FOR DRIVE

274+75
50.00 TLE

275+00
42.00 TLE

276+50
42.00 TLE
39.96 TLE

TLE FOR DRIVE

279+75
50.00 TLE

S89°40'34"E
2496.61'

10' EASEMENT FOR PUBLIC UTILITIES
CENTURYLINK F.K.A. GENERAL TELEPHONE CO.
VOL. 701 PAGE 438, DOC. NO. 583707,
ASSIGNED VIA DOC. NO. 1385887

279+50
41.19 TLE

277+50
42.36 TLE
50.00 TLE

278+00
50.00 TLE
90.00 TLE

TLE FOR SLOPING

278+75
41.82 TLE
90.00 TLE

ANTHONY R. HABECK

(112)

280+00
40.93 TLE
50.00 TLE

(113)

ADAM R. GRIESBACH
&
LORI A. GRIESBACH

(201) WE ENERGIES

TLE FOR SLOPING

(73)

JULE VAN HANDEL & JOAN VAN HANDEL
EACH AN UNDIVIDED 1/2 INTEREST
AS TENANTS IN COMMON

SW-NE

1/16 LINE

P/L

N04°45'00"E 1332.82' (TO R/L)

CENTURYLINK (203)

(77)

JAMES S. KLEIBER, JR. &
MARY JO VOLKMAN

LOT 1
CSM #2560
VOL. 14 PAGE 2560
DOC. #1191536

TLE FOR SLOPING

273+20
42.18 TLE
50.00 TLE

P/L

SLOPE INTERCEPT

NEIGHBORHOOD ACRES LLC,
A WISCONSIN LIMITED
LIABILITY COMPANY

EASEMENT WISCONSIN MICHIGAN POWER COMPANY VOL 222, PG 198, DOC. 290650

(201) WE ENERGIES

SE-NE

SECTION 31

BLACK CREEK

R/L CURVE 3
Δ = 01°37'52"
R = 15000.00'
T = 213.51'
L = 427.00'
CH = 426.98'
LCB = N89°30'31"E
PI Y = 622397.049
PI X = 809244.668

N88°38'07"E 1310.46' S88°38'07"W 1310.46'
1/4 LINE

T 23 N R 17 E 31

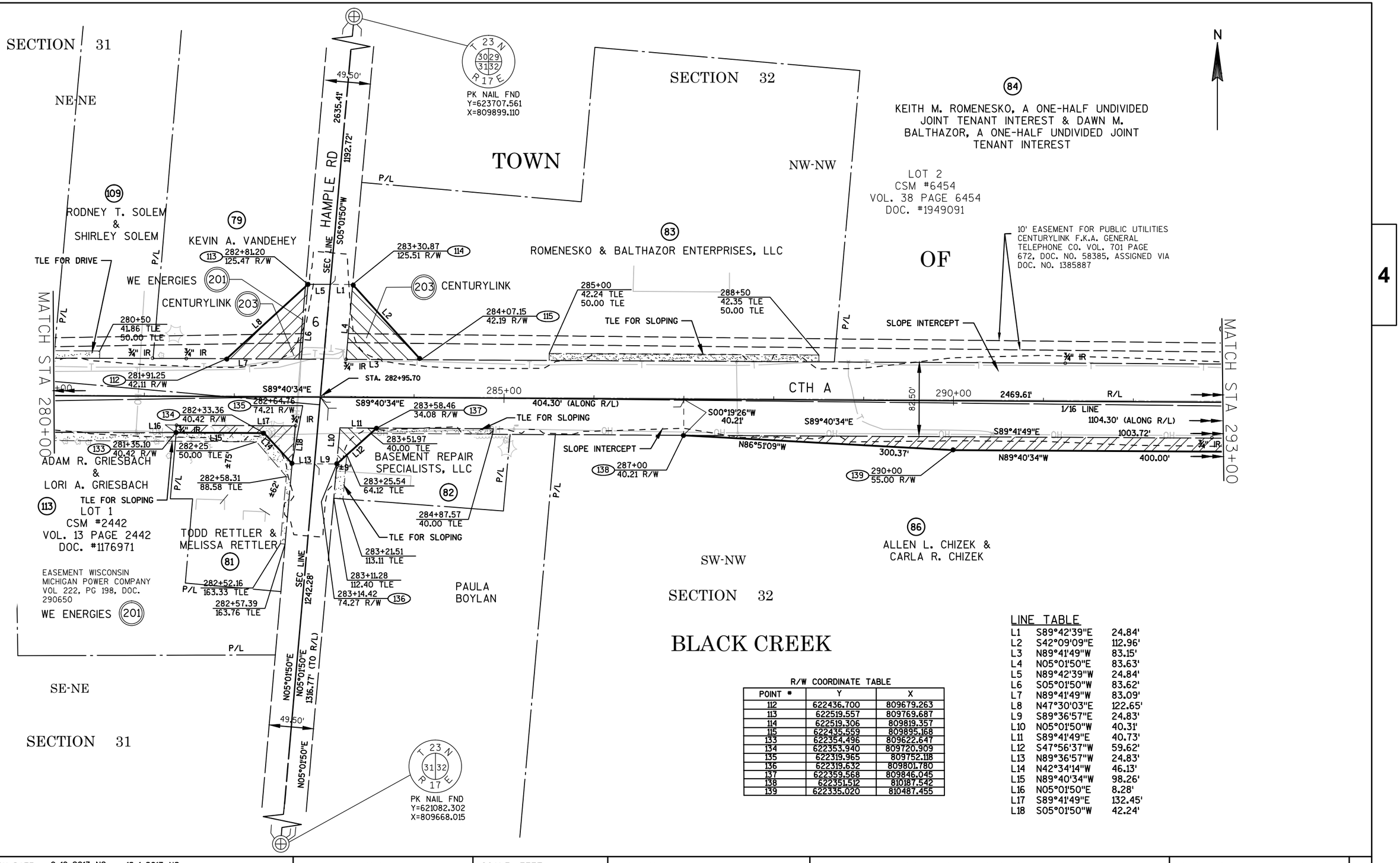
T 23 N R 17 E 31 32

OUTAGAMIE COUNTY
MONUMENT FOUND
Y = 621019.881
X = 807047.844

PK NAIL FOUND
Y = 621082.302
X = 809668.015

REVISION DATE	9-19-2017 NC	12-11-2017		DATE 4-24-17	SCALE, FEET 0 50 100	HWY: CTH A	STATE R/W PROJECT NUMBER	PLAT SHEET 4.08	
				GRID FACTOR N/A		COUNTY: OUTAGAMIE	CONSTRUCTION PROJECT NUMBER: 6505-03-71	PS&E SHEET 48	E

FILE NAME : F:\TR\JOBS\E2182A15\CIVIL 3D 2014\RW\E2182-010101-RW.DWG PLOT DATE : 3/28/2017 4:38 PM PLOT BY : DAVE A. YURK PLOT NAME : _____ PLOT SCALE : ******** WISDOT/CADDS SHEET 75



R/W COORDINATE TABLE

POINT #	Y	X
112	622436.700	809679.263
113	622519.557	809769.687
114	622519.306	809819.357
115	622435.559	809895.168
133	622354.496	809622.647
134	622353.940	809720.909
135	622319.965	809752.118
136	622319.632	809801.780
137	622359.568	809846.045
138	622351.512	810187.542
139	622335.020	810487.455

LINE TABLE

L1	S89°42'39"E	24.84'
L2	S42°09'09"E	112.96'
L3	N89°41'49"W	83.15'
L4	N05°01'50"E	83.63'
L5	N89°42'39"W	24.84'
L6	S05°01'50"W	83.62'
L7	N89°41'49"W	83.09'
L8	N47°30'03"E	122.65'
L9	S89°36'57"E	24.83'
L10	N05°01'50"W	40.31'
L11	S89°41'49"E	40.73'
L12	S47°56'37"W	59.62'
L13	N89°36'57"W	24.83'
L14	N42°34'14"W	46.13'
L15	N89°40'34"W	98.26'
L16	N05°01'50"E	8.28'
L17	S89°41'49"E	132.45'
L18	S05°01'50"W	42.24'

REVISION DATE	DATE 4-24-17	SCALE, FEET 0 50 100	HWY: CTH A	STATE R/W PROJECT NUMBER	PLAT SHEET 4.09
9-19-2017 NC; 12-1-2017 NC	GRID FACTOR N/A		COUNTY: OUTAGAMIE	CONSTRUCTION PROJECT NUMBER: 6505-03-71	PS&E SHEET 49 E

FILE NAME : F:\TR\JOBS\E2182A15\CIVIL 3D 2014\RW\E2182-010101-RW.DWG PLOT DATE : 3/28/2017 4:39 PM PLOT BY : DAVE A. YURK PLOT NAME : _____ PLOT SCALE : ********

TOWN OF BLACK CREEK

SECTION 32

NW-NW

NE-NW

SW-NW

SE-NW

N

100'

WISCONSIN CENTRAL LTD

P/L

1/16 LINE

1/4 LINE

MATCH STA 293+00

MATCH STA 306+00

STATE ROAD

CTH A

66'

82.50'

RONALD L. WELCH (88)

RONALD L. WELCH (88)

RONALD L. WELCH (88)

KEITH M. ROMENESKO, A ONE-HALF UNDIVIDED JOINT TENANT INTEREST & DAWN M. BALTHAZOR, A ONE-HALF UNDIVIDED JOINT TENANT INTEREST (84)

THOMAS J. BEYER (87)

ALLEN L. CHIZEK & CARLA R. CHIZEK (86)

BRETT C. EBBEN (89)

CENTURYLINK (203)

WE ENERGIES (201)

10' EASEMENT FOR PUBLIC UTILITIES CENTURYLINK F.K.A. GENERAL TELEPHONE CO. VOL. 701 PAGE 670, DOC. NO. 583851, ASSIGNED VIA DOC. NO. 1385887

HIGHWAY EASEMENT

SLOPE INTERCEPT

TLE FOR SLOPING

PC STA 304+40.01
Y = 622391.876
X = 811927.749

294+00 42.55 R/W (234)
296+75 60.00 R/W (204)
297+14.51 60.00 HE 60.00 R/W (205)
298+15.20 60.00 HE 60.00 R/W (321)
300+00 60.00 R/W (120)
300+50 50.00 R/W (121)
304+04.56 50.00 R/W (122)
304+70.11 117.13 R/W (123)
305+30.39 113.65 R/W (124)
305+94.46 50.00 R/W (125)
294+00 55.00 R/W 60.00 TLE (140)
295+00 60.00 R/W 65.00 TLE (141)
297+01.75 60.00 HE 60.00 R/W (142)
298+02.22 60.00 HE 60.00 R/W (143)
300+25 60.00 R/W (146)
300+75 50.00 R/W (147)
304+40.01 50.00 R/W (148)
306+00.04 39.24 R/W (149)

304+68.27 198.73 TLE
304+57.64 198.48 TLE
305+24.50 201.80 TLE
305+34.30 202.38 TLE
304+58.58 104.32 TLE
305+41.35 102.01 TLE
305+83.68 60.00 TLE

CURVE B
CURVE C
CURVE A
CURVE 4

N86°41'37"E 275.55'
N89°41'49"W 312.51'
S89°40'34"E 184.80'
N89°41'49"W 629.86'
S89°40'34"E 354.56'
S89°40'34"E 1104.30'
S89°41'49"E 1003.72'
S89°40'34"E 408.54'
S89°40'34"E 2469.61'
N89°40'34"W 400.00'
N86°48'49"W 100.13'
N89°40'34"W 201.75'
S89°40'34"E 222.78'
N89°40'34"W 365.01'
S89°41'49"E 638.84'
N00°19'31"E 42.55'
N06°30'54"E 42.96'
S06°30'54"W 40.03'
N04°45'03"E 1327.85' (TO R/L)
S89°11'00"E 1340.70'
N89°11'00"W 1340.70'

STA. 296+30.80
295+00
300+00
305+00
R/L

L4 L7 L8 L9 L11 L12 L17 L18 L19 L20

C-1 C-2 C-3 C-4 C-5 C-6 C-H

HE

IP

¾" IR

1/2" IR

CURVE D
Δ = 00°12'03"
R = 5779.65'
T = 10.13'
L = 20.26'
CH = 20.26'
LCB = S05°53'44"W

CURVE E
Δ = 00°10'23"
R = 5779.65'
T = 8.73'
L = 17.45'
CH = 17.45'
LCB = S06°54'18"W

CURVE F
Δ = 00°10'33"
R = 5679.65'
T = 8.71'
L = 17.42'
CH = 17.42'
LCB = N07°01'18"E

CURVE G
Δ = 00°12'17"
R = 5679.65'
T = 10.15'
L = 20.30'
CH = 20.30'
LCB = N05°59'39"E

CURVE H
Δ = 01°27'15"
R = 1187.53'
T = 15.07'
L = 30.14'
CH = 30.14'
LCB = N88°58'12"W

HE C-1
Δ = 01°11'47"
R = 5779.65'
T = 60.34'
L = 120.68'
CH = 120.68'
LCB = S06°23'36"W

HE C-2
Δ = 01°13'03"
R = 5679.65'
T = 60.35'
L = 120.70'
CH = 120.70'
LCB = N06°30'02"E

CURVE A
Δ = 7°51'29"
R = 1105.03'
T = 75.90'
L = 151.55'
CH = 151.43'
LCB = S85°46'05"E

CURVE B
Δ = 23°14'04"
R = 1187.53'
T = 244.14'
L = 481.56'
CH = 478.27'
LCB = N73°26'11"W

CURVE C
Δ = 15°05'29"
R = 1210.00'
T = 160.28'
L = 318.71'
CH = 317.79'
LCB = S74°30'05"E

R/L CURVE 4
Δ = 48°04'17"
R = 1160.00'
T = 517.33'
L = 973.25'
CH = 944.54'
LCB = S65°38'25"E
PI Y = 622378.950
PI X = 812445.075

LINE TABLE

L4	S89°40'34"E	39.51'
L7	S78°21'56"E	50.99'
L8	N46°07'12"E	95.67'
L9	S00°18'10"W	74.14'
L11	N89°43'08"W	154.14'
L12	S79°00'51"W	50.99'
L17	N00°18'10"E	70.71'
L18	S40°46'33"E	93.55'
L19	N89°40'34"W	100.69'
L20	S89°40'34"E	100.46'

HIGHWAY EASEMENT - R/W COORDINATE TABLE

POINT #	Y	X
142	622326.052	811189.166
143	622325.484	811289.630
205	622445.978	811202.603
321	622445.408	811303.295

R/W COORDINATE TABLE

POINT #	Y	X
120	622444.363	811488.091
121	622434.081	811538.032
122	622432.076	811892.585
123	622498.390	811961.544
124	622491.101	812027.506
125	622420.257	812088.606
140	622332.758	810887.448
141	622327.193	810987.418
146	622324.224	811512.410
147	622333.941	811562.466
148	622331.877	811927.466
149	622331.120	812081.600
204	622446.201	811163.094
234	622430.309	810888.000
235	622437.050	811013.040

PK NAIL FOUND
Y = 621082.302
X = 809668.015

T 23 N R 17 E 31 32

T 23 N R 17 E 32

COMPUTED
Y = 621044.083
X = 812349.150

REVISION DATE	9-19-2017	12-11-2017	

DATE 4-24-17

GRID FACTOR N/A

SCALE, FEET 0 50 100

HWY: CTH A

COUNTY: OUTAGAMIE

STATE R/W PROJECT NUMBER

CONSTRUCTION PROJECT NUMBER: 6505-03-71

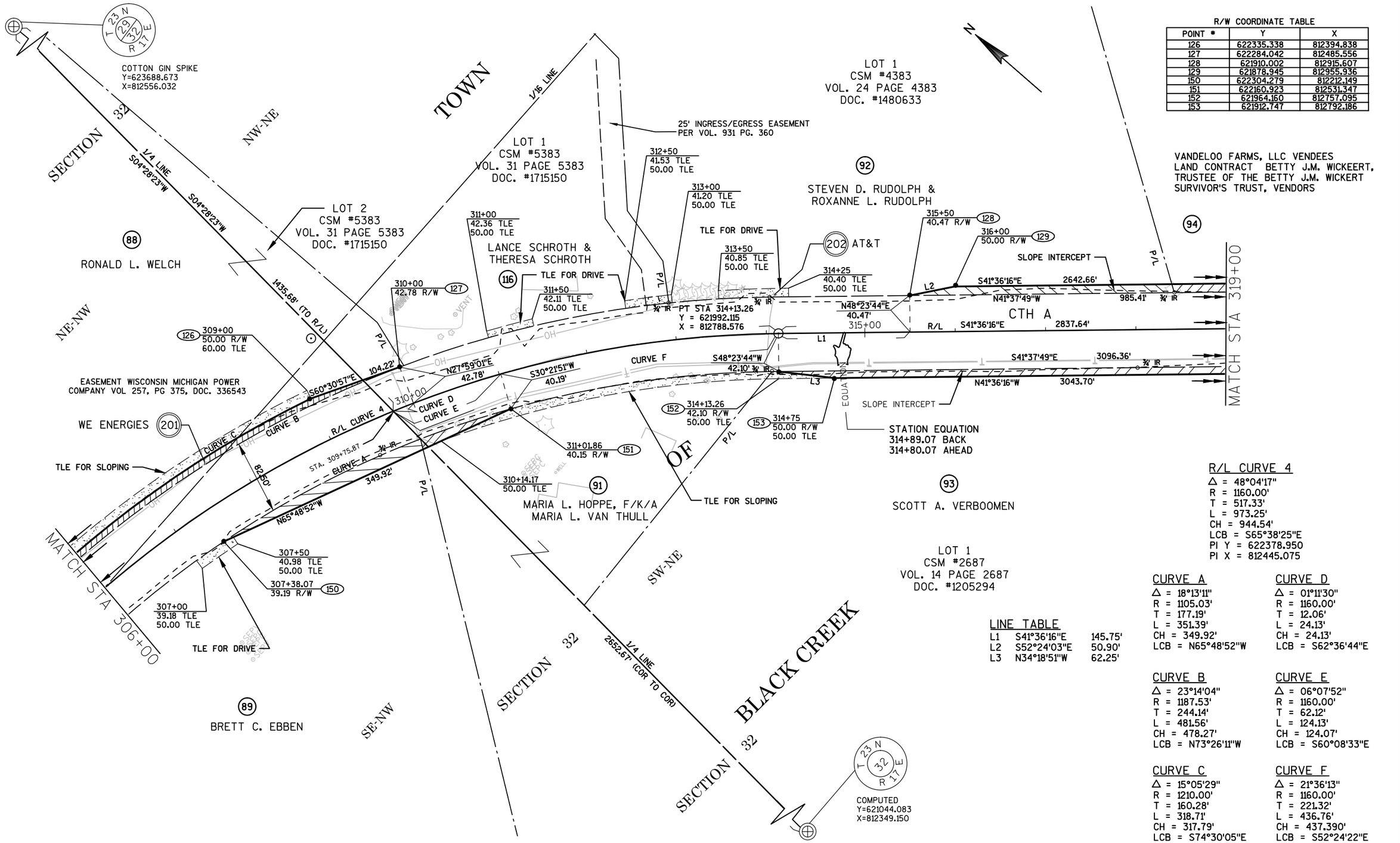
PLAT SHEET 4.10

PS&E SHEET 50

E

FILE NAME : F:\TR\JOBS\E2182A15\CIVIL 3D 2014\RW\E2182-010101-RW.DWG PLOT DATE : 3/28/2017 4:39 PM PLOT BY : DAVE A. YURK PLOT NAME : _____ PLOT SCALE : ********

WISDOT/CADDS SHEET 75



R/W COORDINATE TABLE

POINT #	Y	X
126	622335.338	812394.838
127	622284.042	812485.556
128	621910.002	812915.607
129	621878.945	812955.936
150	622304.279	812212.149
151	622160.923	812531.347
152	621964.160	812757.095
153	621912.747	812792.186

LINE TABLE

L1	S41°36'16"E	145.75'
L2	S52°24'03"E	50.90'
L3	N34°18'51"W	62.25'

R/L CURVE 4
Δ = 48°04'17"
R = 1160.00'
T = 517.33'
L = 973.25'
CH = 944.54'
LCB = S65°38'25"E
PI Y = 622378.950
PI X = 812445.075

CURVE A
Δ = 18°13'11"
R = 1105.03'
T = 177.19'
L = 351.39'
CH = 349.92'
LCB = N65°48'52"W

CURVE B
Δ = 23°14'04"
R = 1187.53'
T = 244.14'
L = 481.56'
CH = 478.27'
LCB = N73°26'11"W

CURVE C
Δ = 15°05'29"
R = 1210.00'
T = 160.28'
L = 318.71'
CH = 317.79'
LCB = S74°30'05"E

CURVE D
Δ = 01°11'30"
R = 1160.00'
T = 12.06'
L = 24.13'
CH = 24.13'
LCB = S62°36'44"E

CURVE E
Δ = 06°07'52"
R = 1160.00'
T = 62.12'
L = 124.13'
CH = 124.07'
LCB = S60°08'33"E

CURVE F
Δ = 21°36'13"
R = 1160.00'
T = 221.32'
L = 436.76'
CH = 437.390'
LCB = S52°24'22"E

REVISION DATE	9-19-2017 NC	12-11-2017	

DATE 4-24-17	SCALE, FEET 0 50 100	HWY: CTH A	STATE R/W PROJECT NUMBER	PLAT SHEET 4.11
GRID FACTOR N/A		COUNTY: OUTAGAMIE	CONSTRUCTION PROJECT NUMBER: 6505-03-71	PS&E SHEET 51 E

FILE NAME : F:\TR\JOBS\E2182A15\CIVIL 3D 2014\RW\E2182-010101-RW.DWG PLOT DATE : 3/29/2017 8:49 AM PLOT BY : DAVE A. YURK PLOT NAME : _____ PLOT SCALE : ********

WISDOT/CADDS SHEET 75

4

LINE TABLE

L1	N88°56'45"W	55.76'
L2	N41°36'16"W	130.06'
L3	N04°59'57"E	56.31'

T 23 N R 17 E 32 153

PK NAIL FND
Y=620995.880
X=814968.969

N

SECTION 32

TOWN

SE-NE

OF

NE-SE

SW-NE

NW-SE

1/4 LINE

1/16 LINE

P/L

LOT 2
CSM #4383
VOL. 24 PAGE 4383
DOC. #1480633

94 VANDELOO FARMS, LLC VENDEES LAND CONTRACT BETTY J.M. WIECKERT, TRUSTEE OF THE BETTY J.M. WIECKERT SURVIVOR'S TRUST, VENDORS

98 JEFFERY J. KOLLER & JEAN M. KOLLER

LOT 2
CSM #2176
VOL. 12 PAGE 2176
DOC. #1151202

99 GARY J. RAMSEY & COLETTE D. RAMSEY

LOT 3
CSM #2176
VOL. 12 PAGE 2176
DOC. #1151202

MATCH STA 319+00

MATCH STA 332+00

SLOPE INTERCEPT

S41°36'16"E 985.41'

N41°37'49"W

320+00

325+00

330+00

S41°36'16"E 2837.64'

R/L

N41°37'49"W 1492.20'

N88°56'45"W 2620.26'

1317.50'

328+00
50.00 TLE
55.00 TLE

330+00
50.00 TLE
55.00 TLE

331+50
50.00 TLE
55.00 TLE

TLE FOR SLOPING

¾" IR

STA. 327+04.15

L1

L2

L3

825.0'

S41°37'49"E 3043.70'

N41°36'16"W

3096.36'

±70'

±15'

202 AT&T

93 SCOTT A. VERBOOMEN

LOT 1
CSM #2687
VOL. 14 PAGE 2687
DOC. #1205294

96 SALIETE T. BIAGINI

LOT 2
CSM #2687
VOL. 14 PAGE 2687
DOC. #1205294

100' X 100' INGRESS/EGRESS EASEMENT
PER DOC. 1630818

97 JACOB L. DERPINGHAUS

18' INGRESS/EGRESS EASEMENT
JACKET 10405, IMAGE 41,
AS DOC. 983084

101 BRUCE A. FISCHER & KAREN M. FISCHER

102 ROBERT E. DERUS & DONNA M. DERUS

LOT 1
CSM #1743
VOL. 9 PAGE 1743
DOC. #1095546
LESS & EXCEPTING
J 18036, 117
DOC#1187839

S88°56'45"E

BLACK CREEK

T 23 N R 17 E 32

COMPUTED
Y=621044.083
X=812349.150

REVISION DATE 9-19-2017 NC 12-11-2017	DATE 4-24-17	SCALE, FEET 0 50 100	HWY: CTH A	STATE R/W PROJECT NUMBER	PLAT SHEET 4.12
	GRID FACTOR N/A		COUNTY: OUTAGAMIE	CONSTRUCTION PROJECT NUMBER: 6505-03-71	PS&E SHEET 52 E

FILE NAME : F:\TR\JOBS\E2182A15\CIVIL 3D 2014\RW\E2182-010101-RW.DWG PLOT DATE : 3/29/2017 8:49 AM PLOT BY : DAVE A. YURK PLOT NAME : _____ PLOT SCALE : ********

WISDOT/CADDS SHEET 75

END RELOCATION ORDER
STATION 344+86.39

1226.54' SOUTH OF AND 80.84' WEST OF THE EAST 1/4 CORNER OF SECTION 32, T23N, R17E, TOWN OF BLACK CREEK, OUTAGAMIE COUNTY WISCONSIN.
Y: 619769.339
X: 814888.126

4

4

LOT 2
CSM #2176
VOL. 12 PAGE 2176
DOC. #1151202

KENNETH P. WAGNER
&
DENISE M. WAGNER

LOT 1
CSM #2958
VOL. 16 PAGE 2958
DOC. #1239882
CORRECTED BY
DOC. #1242668

TOWN

PK NAIL FOUND
Y = 620995.880
X = 814968.969

T 22 N
S 32 33
R 19 E

OUTLOT 1
CSM #2958
VOL. 16 PAGE 2958
DOC. #1239882
CORRECTED BY
DOC. #1242668

S04°12'24"W
125.00'
S04°12'24"W
STH 47
1229.18'
1/4 LINE

99
GARY J. RAMSEY &
COLETTE D. RAMSEY

INGRESS/EGRESS EASEMENT
PER DOC. 2050519

LOT 2
CSM #2958
VOL. 16 PAGE 2958
DOC. #1239882
CORRECTED BY
DOC. #1242668

107
FREEDOM DEVELOPMENT SERVICES, LLC
A WISCONSIN LIMITED LIABILITY COMPANY
VIA DOC #1749909

WE ENERGIES 201

LOT 3
CSM #2176
VOL. 12 PAGE 2176
DOC. #1151202

103

106
MARCUS V. BIAGINI &
RACHEL N. BIAGINI

202 AT&T

TLE FOR DRIVE
335+00
55.00 TLE
60.00 TLE

335+50
50.00 TLE
60.00 TLE

SLOPE INTERCEPT

P/L

±58'

OH

PIP

STA. 344+80.62

S85°54'09"E
12.55'

342+42.81
50.00 R/W
130

N85°53'15"W
11.91'

PT STA 344+73.84
X = 619770.235
Y = 814875.612

2868.53'

R/L CURVE 5

STA 332+00

S41°36'16"E
2642.66'
N41°37'49"W
¾" IR
¾" IR
¾" IR
1492.20'
¾" IR

CTH A

S41°36'16"E
335+00
82.50'
R/L
340+00
2837.64'

PC STA 342+41.90
Y = 619870.273
X = 814672.723

S41°37'49"E
¾" IR
N41°36'16"W
3096.36'
¾" IR
3043.70'
¾" IR
S04°38'18"W
12.96'

TLE FOR DRIVE
335+00
50.00 TLE
60.00 TLE

SLOPE INTERCEPT

±45' ±42' ±47' ±47' ±48' ±45' ±44' ±50' ±48' ±51' ±57'

OF

WE ENERGIES 201

373 344+37.84
140.70 R/W

R/L CURVE 5
Δ = 44°17'54"
R = 300.00'
T = 122.12'
L = 231.95'
CH = 226.21'
LCB = S63°45'12"E
PI Y = 619778.961
PI X = 814753.807

HARRISON MONUMENT
FOUND
Y = 618134.478
X = 814766.873

T 23 N R 17 E
S 32 33 4 5
T 22 N R 17 E

155 335+50
50.00 TLE
60.00 TLE

±84'

102
ROBERT E. DERUS &
DONNA M. DERUS

103
KENNETH P. WAGNER
& DENISE M. WAGNER

104
HIGHWAY 47 STORAGE, LLC

LOT 1
CSM #1743
VOL. 9 PAGE 1743
DOC. #1095546
LESS & EXCEPTING
J 18036, I17
DOC#1187839

LOT 2
CSM #1743
VOL. 9 PAGE 1743
DOC. #1095546

SECTION 32
NE-SE

VALLEY NORTH STORAGE
CONDOMINIUMS PLAT

BLACK CREEK

1/16 LINE
SE-NE

R/W COORDINATE TABLE

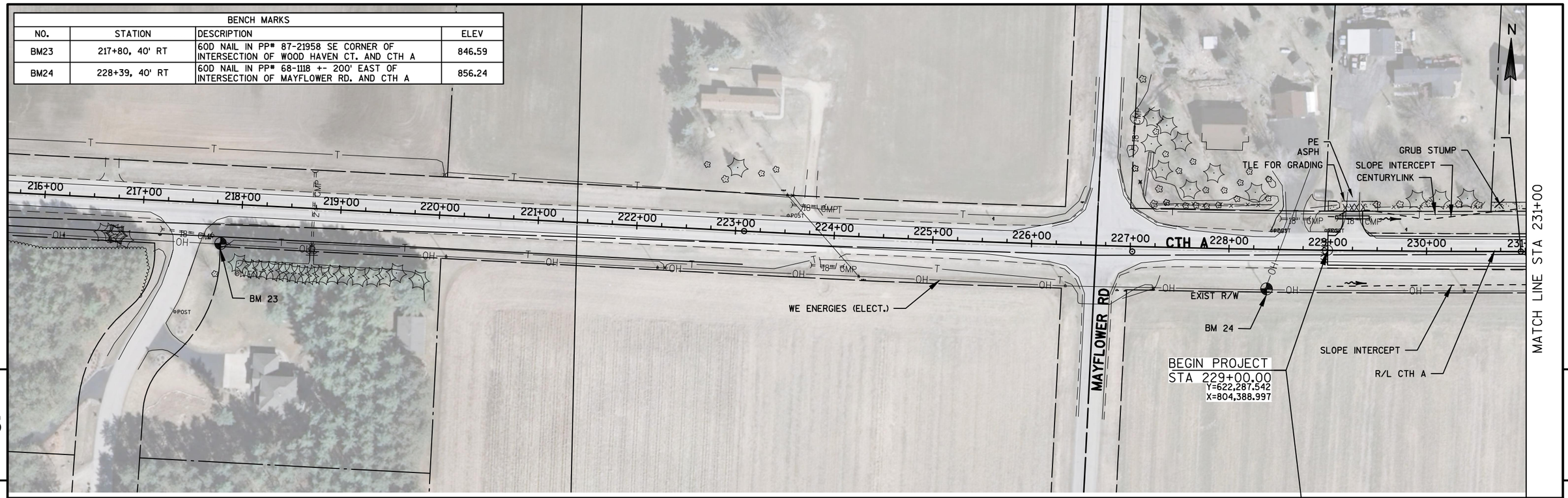
POINT #	Y	X
130	619902.901	814710.618
373	619636.826	814813.152

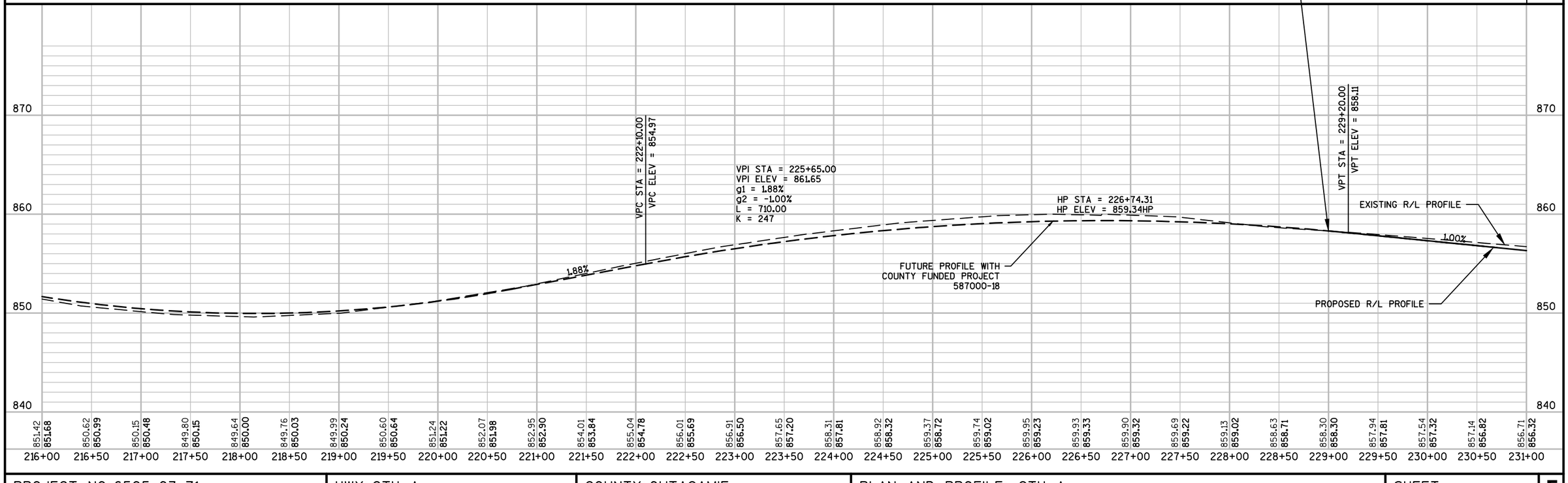
REVISION DATE	DATE	SCALE, FEET	HWY: CTH A	STATE R/W PROJECT NUMBER	PLAT SHEET 4.13	
9-19-2017 NC, 12-11-2017	4-24-17	0 50 100	COUNTY: OUTAGAMIE	CONSTRUCTION PROJECT NUMBER: 6505-03-71	PS&E SHEET 53	E
	GRID FACTOR N/A					

FILE NAME : F:\TR\JOBS\E2182A15\CIVIL 3D 2014\RW\E2182-010101-RW.DWG PLOT DATE : 3/29/2017 8:49 AM PLOT BY : DAVE A. YURK PLOT NAME : _____ PLOT SCALE : ********

WISDOT/CADDS SHEET 75

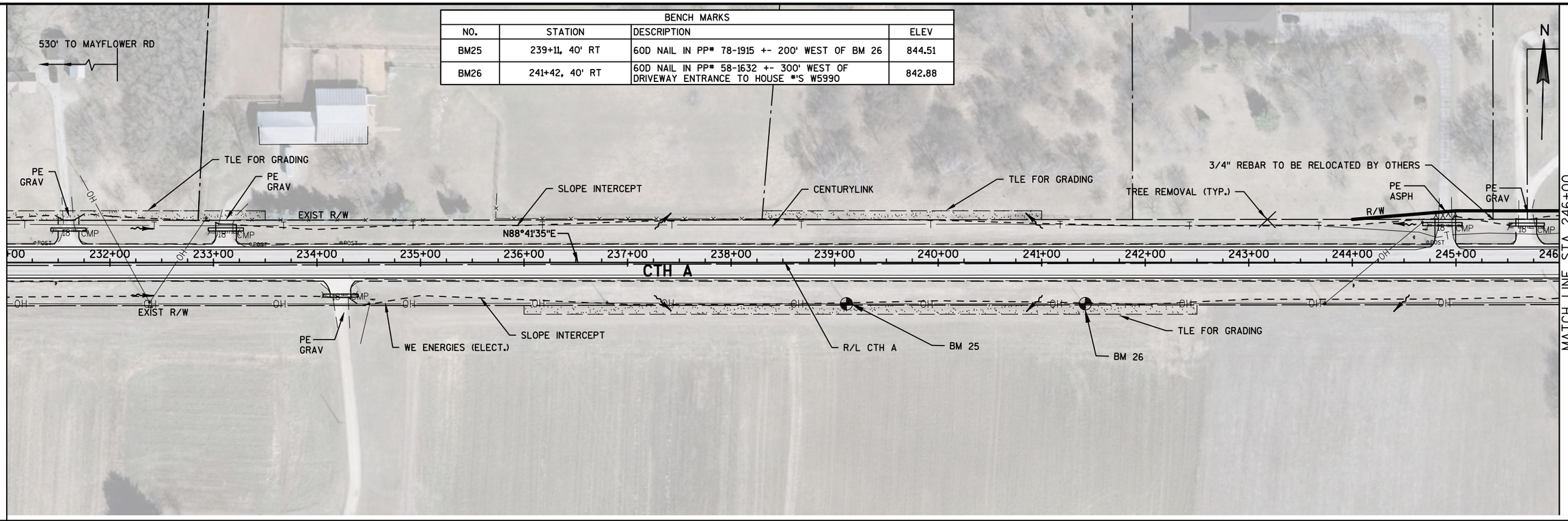
BENCH MARKS			
NO.	STATION	DESCRIPTION	ELEV
BM23	217+80, 40' RT	60D NAIL IN PP* 87-21958 SE CORNER OF INTERSECTION OF WOOD HAVEN CT. AND CTH A	846.59
BM24	228+39, 40' RT	60D NAIL IN PP* 68-1118 +- 200' EAST OF INTERSECTION OF MAYFLOWER RD. AND CTH A	856.24

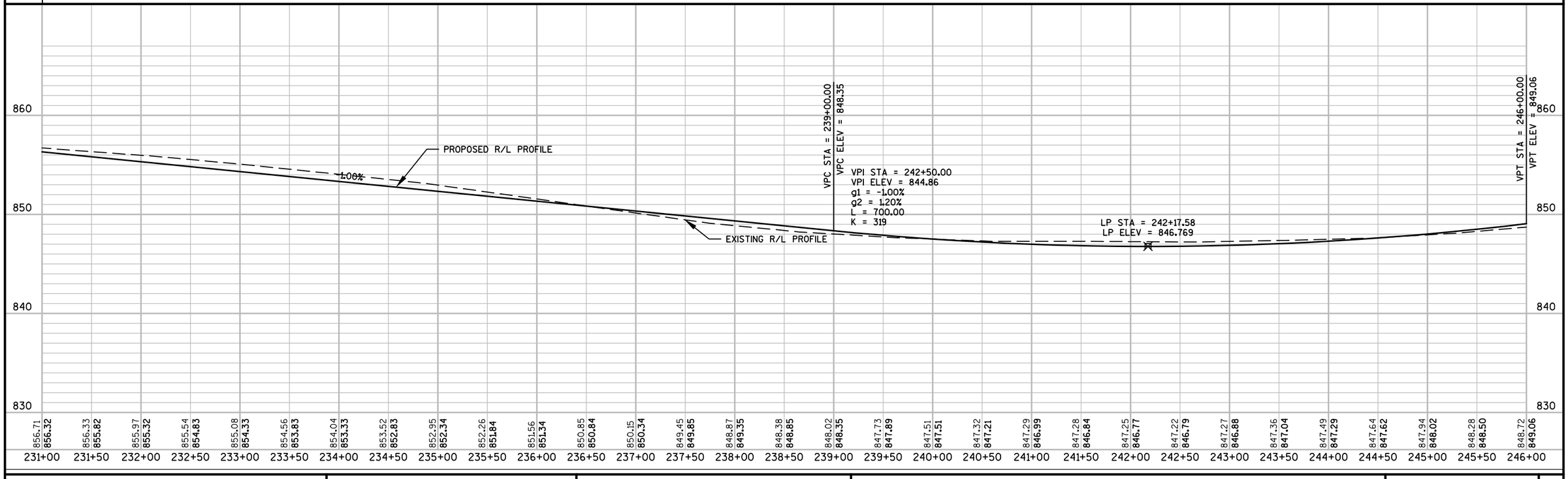




PROJECT NO: 6505-03-71	HWY: CTH A	COUNTY: OUTAGAMIE	PLAN AND PROFILE: CTH A	SHEET 54	E

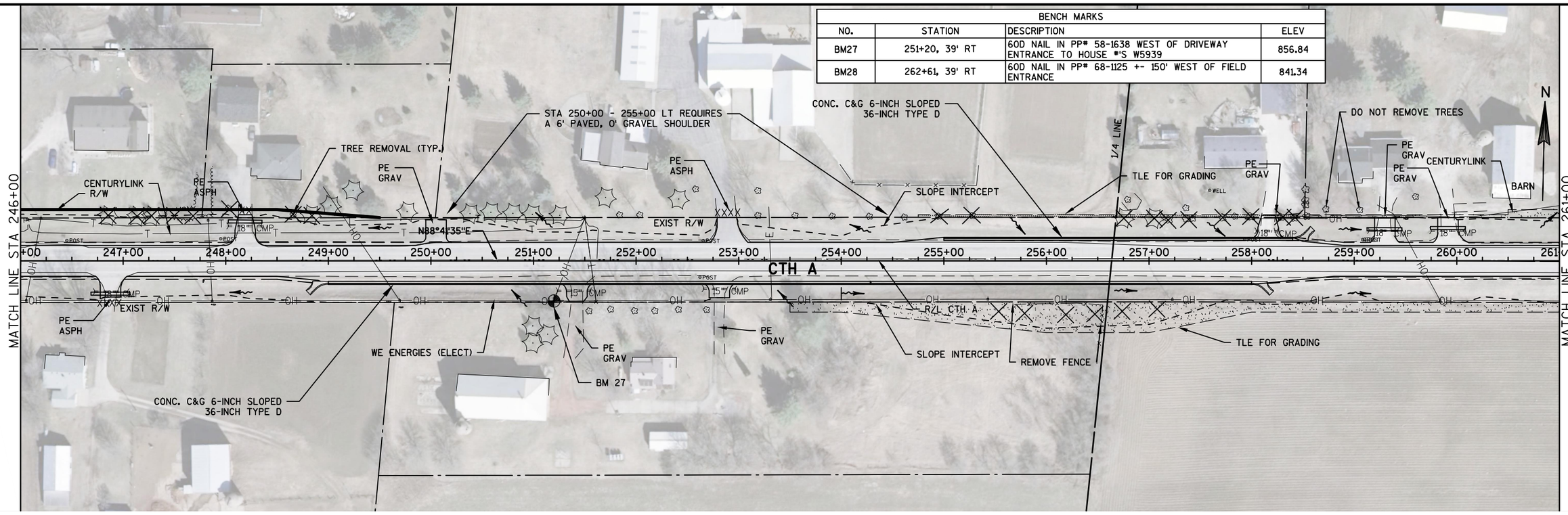
BENCH MARKS			
NO.	STATION	DESCRIPTION	ELEV
BM25	239+11, 40' RT	60D NAIL IN PP* 78-1915 +- 200' WEST OF BM 26	844.51
BM26	241+42, 40' RT	60D NAIL IN PP* 58-1632 +- 300' WEST OF DRIVEWAY ENTRANCE TO HOUSE *'S W5990	842.88

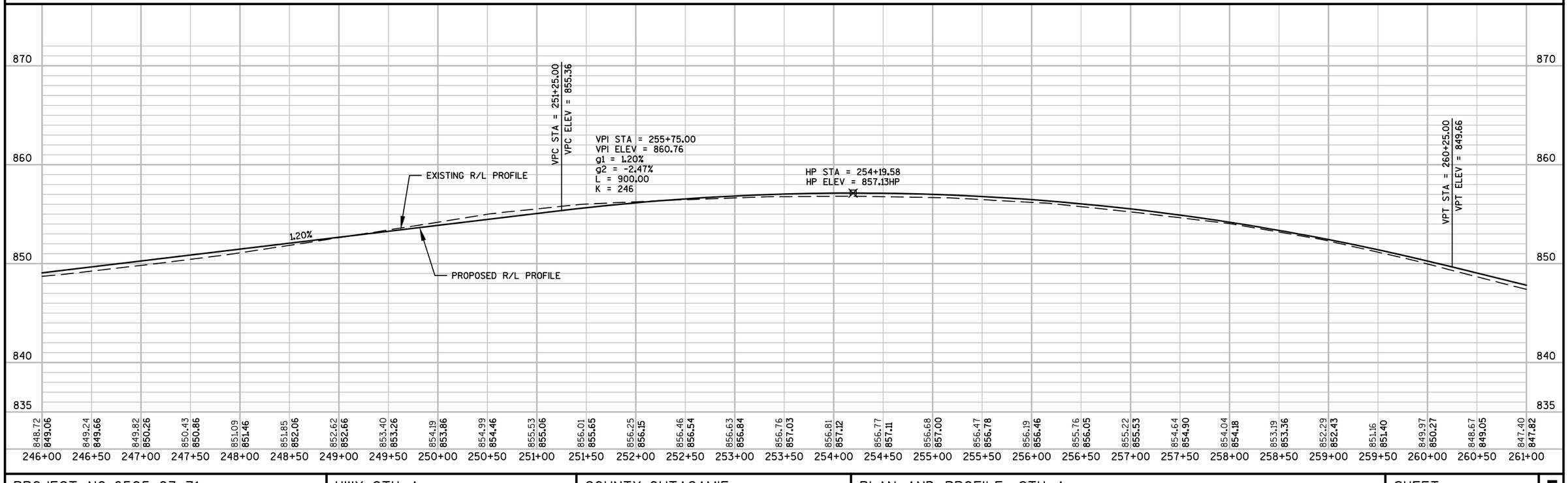




PROJECT NO: 6505-03-71	HWY: CTH A	COUNTY: OUTAGAMIE	PLAN AND PROFILE: CTH A	SHEET 55	E

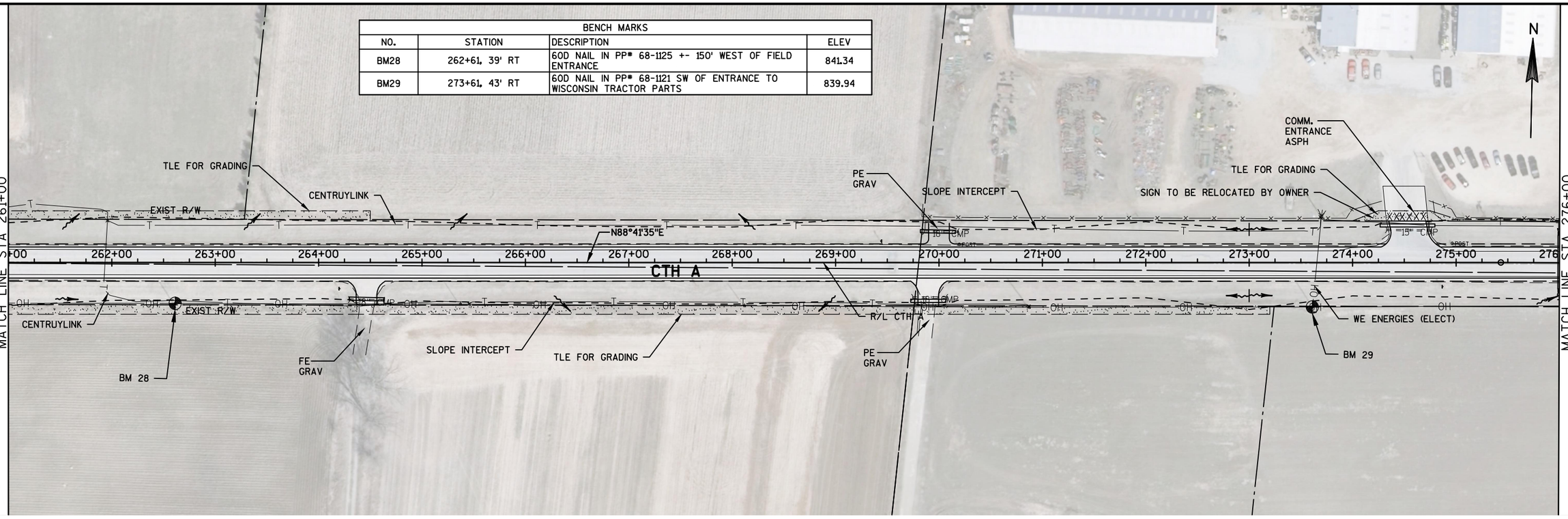
BENCH MARKS			
NO.	STATION	DESCRIPTION	ELEV
BM27	251+20, 39' RT	60D NAIL IN PP* 58-1638 WEST OF DRIVEWAY ENTRANCE TO HOUSE *'S W5939	856.84
BM28	262+61, 39' RT	60D NAIL IN PP* 68-1125 +- 150' WEST OF FIELD ENTRANCE	841.34

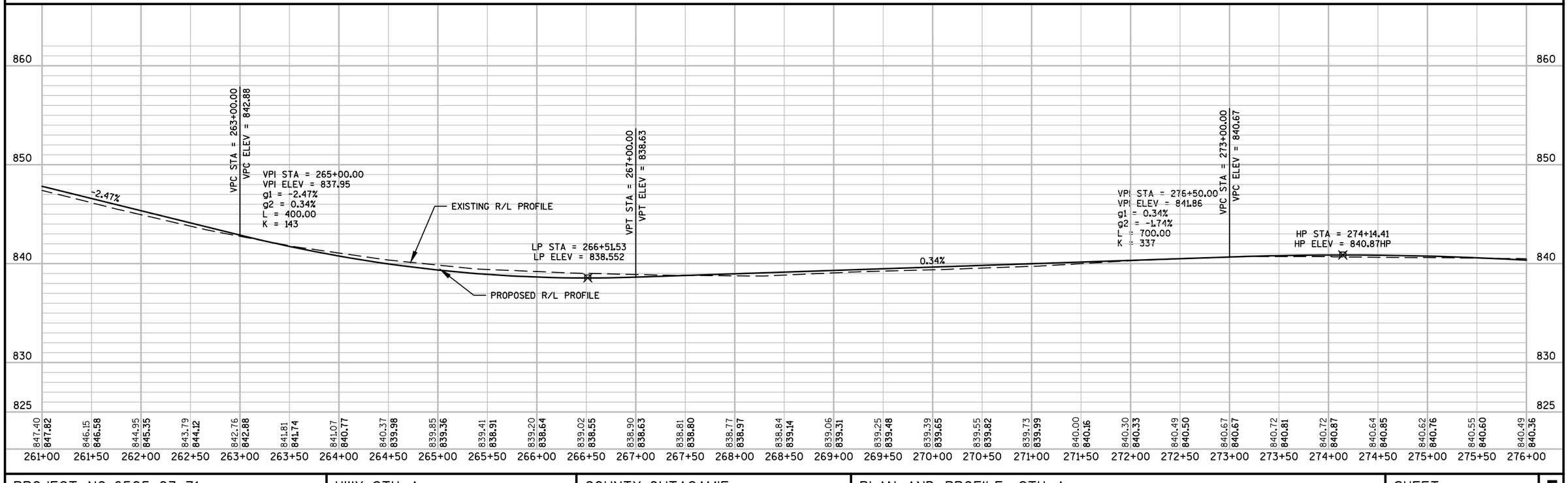




PROJECT NO: 6505-03-71	HWY: CTH A	COUNTY: OUTAGAMIE	PLAN AND PROFILE: CTH A	SHEET 56	E

BENCH MARKS			
NO.	STATION	DESCRIPTION	ELEV
BM28	262+61, 39' RT	60D NAIL IN PP* 68-1125 +- 150' WEST OF FIELD ENTRANCE	841.34
BM29	273+61, 43' RT	60D NAIL IN PP* 68-1121 SW OF ENTRANCE TO WISCONSIN TRACTOR PARTS	839.94





PROJECT NO: 6505-03-71	HWY: CTH A	COUNTY: OUTAGAMIE	PLAN AND PROFILE: CTH A	SHEET 57	E

PI STA = 277+56.91
Y = 622397.049
X = 809244.668
DELTA = 001°37'52"
D = 000°22'55"
T = 213.51
L = 427.00
R = 15000.00
PC STA = 275+43.40
PT STA = 279+70.39

FE STA 279+71 LT
RELOCATED TO
PE STA 280+15 LT

PE STA 102+40 LT
RELOCATED TO
PE STA 103+00 LT

BENCH MARKS			
NO.	STATION	DESCRIPTION	ELEV
BM29	273+61, 43' RT	60D NAIL IN PP* 68-1121 SW OF ENTRANCE TO WISCONSIN TRACTOR PARTS	839.94
BM30	285+11, 34' RT	60D NAIL IN PP* 63-1014 WEST OF DRIVEWAY ENTRANCE TO HOUSE *'S W5685	825.92

N

MATCH LINE STA 276+00

MATCH LINE STA 291+00

HAMPLE RD

CTH A (RL) STA 282+95.70=
HAMPLE RD (HA) STA 101+66.35HA

CTH A

EXIST R/W

S89°40'34"E

IP TO BE RESET IF NEEDED

POLE & POST TO BE REMOVED BY OTHERS

19"X30" CULVERT PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL CLASS HE-IV AND 2 APRON ENDWALLS REQ'D

CENTURYLINK

FE GRAV

TLE FOR GRADING

R/W

R=47.0'
X=809724.421
Y=622464.337

SAWCUT AND MATCH EX.

REMOVE 18" CMP

R=52.0'
X=809860.315
Y=622468.569

R/L CTH A

BM 30

CONSTRUCTION PERMIT OBTAINED FOR DITCH BACKSLOPE (STA 290+00 TO STA 293+00)

SLOPE INTERCEPT

PE ASPH 30' WIDTH REQ'D

TREE REMOVAL (TYP.)

40' CURB OPENING REQ'D

PE GRAV

CONC. C&G 6-INCH SLOPED 36-INCH TYPE D

EX. SEPTIC SYSTEM

R=52.0'
X=809706.294
Y=622315.438

REMOVE 18" CMP

PE ASPH

TLE FOR DRIVE

R=47.0'
X=809842.541
Y=622323.667

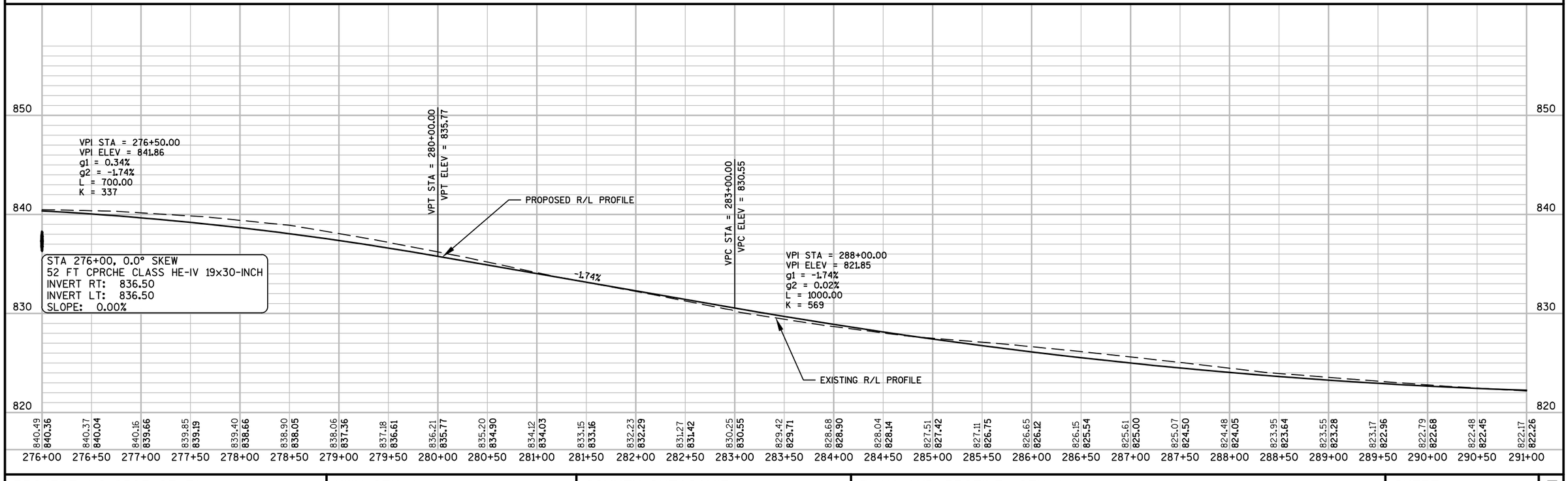
LIMITS OF POTENTIAL SURFACE CONTAMINATION; NO EXCAVATION WITHIN THIS AREA.

WE ENERGIES (ELECT)

WETLAND BOUNDARY

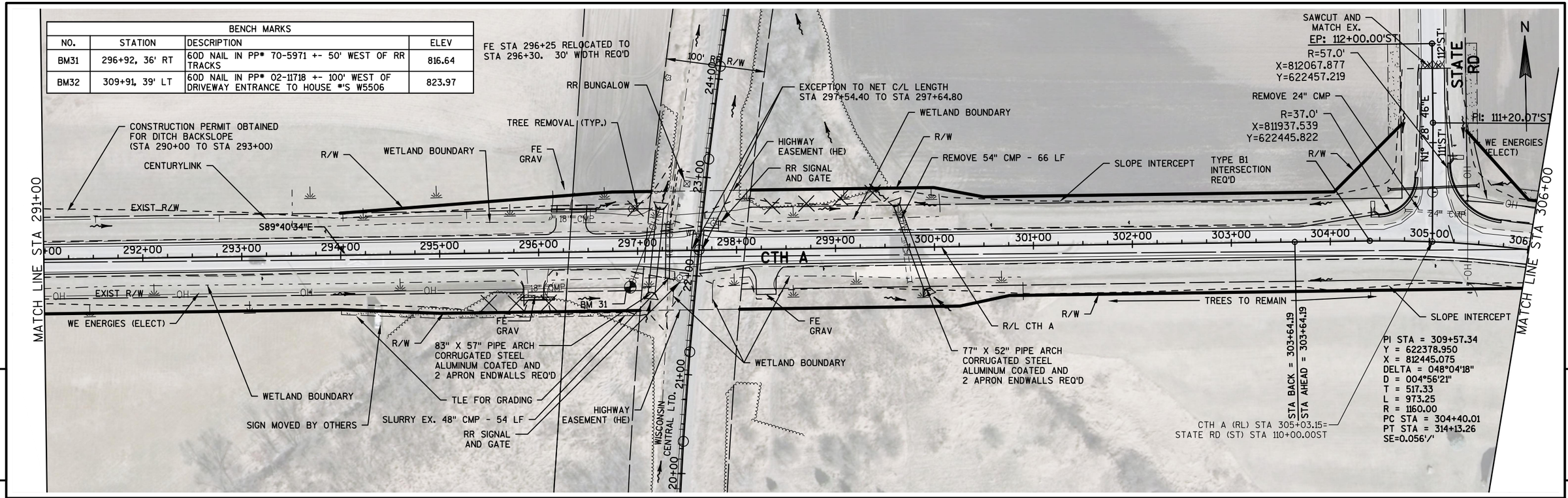
NE & NW QUADRANT: TYPE D INT REQ'D. (MODIFIED W/ 8' OFFSET TO FLANGE OF C&G AND SMALLER RADII)
SE & SW QUADRANT: TYPE B2 INTERSECTION REQ'D

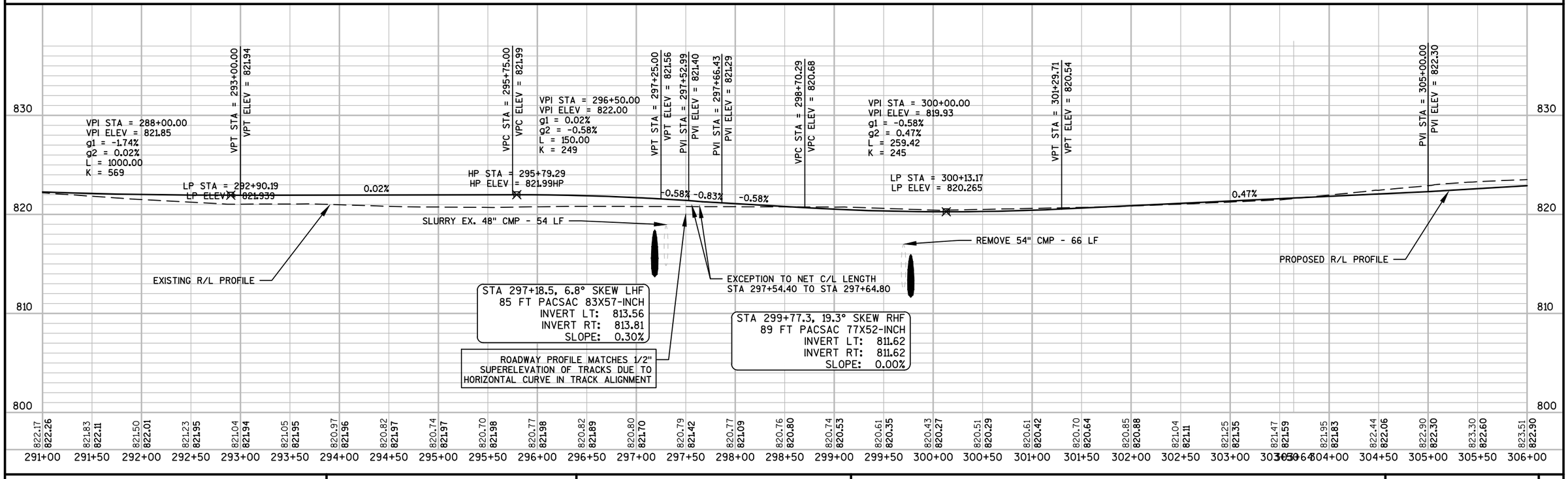
REMOVE PE STA 283+60 RT
RELOCATE PE STA 284+35 RT TO 284+75 RT



PROJECT NO: 6505-03-71	HWY: CTH A	COUNTY: OUTAGAMIE	PLAN AND PROFILE: CTH A	SHEET 58	E

BENCH MARKS			
NO.	STATION	DESCRIPTION	ELEV
BM31	296+92, 36' RT	60D NAIL IN PP* 70-5971 +- 50' WEST OF RR TRACKS	816.64
BM32	309+91, 39' LT	60D NAIL IN PP* 02-11718 +- 100' WEST OF DRIVEWAY ENTRANCE TO HOUSE #'S W5506	823.97





PROJECT NO: 6505-03-71	HWY: CTH A	COUNTY: OUTAGAMIE	PLAN AND PROFILE: CTH A	SHEET 59	E

PI STA = 309+57.34
Y = 622378.950
X = 812445.075
DELTA = 048°04'18"
D = 004°56'21"
T = 517.33
L = 973.25
R = 1160.00
PC STA = 304+40.01
PT STA = 314+13.26
SE = 5.6%

BENCH MARKS			
NO.	STATION	DESCRIPTION	ELEV
BM32	309+91, 39' LT	60D NAIL IN PP* 02-11718 +- 100' WEST OF DRIVEWAY ENTRANCE TO HOUSE *'S W5506	823.97
BM33	322+79, 38' RT	60D NAIL IN PP* 98-03622 +- 50' SE OF DRIVEWAY ENTRANCE TO HOUSE *'S W5506 AND W 5449	826.11

MATCH LINE STA 306+00
MATCH LINE STA 321+00
CTH A
EXIST R/W
TLE FOR GRADING
TLE FOR DRIVE
TREES TO REMAIN
PE GRAV
PE ASPH
BM 32
R/W
WE ENERGIES (ELECT)
TREE REMOVAL (TYP.)
SLOPE INTERCEPT
EX. SEPTIC SYSTEM
AT&T
R/L CTH A
STA AHEAD = 314+80.07
STA BACK = 314+89.07
6' PAVED SHOULDER FOR MAILBOX ACCESS
WETLAND BOUNDARY
S41°36'16"E
36" CULVERT PIPE REINFORCED CONCRETE CLASS IV AND 2 APRON ENDWALLS REQ'D
1/4 LINE
18" CMP
18" CMPP
N

VPC STA = 310+00.00
VPC ELEV = 825.30
VPI STA = 312+00.00
VPI ELEV = 826.50
g1 = 0.60%
g2 = -0.30%
L = 400.00
K = 447
VPT STA = 314+00.00
VPT ELEV = 825.91
STA BACK = 314+89.07
STA AHEAD = 314+80.07
VPC STA = 317+00.00
VPC ELEV = 825.00
VPI STA = 318+00.00
VPI ELEV = 824.70
g1 = -0.30%
g2 = 0.71%
L = 200.00
K = 199
VPT STA = 319+00.00
VPT ELEV = 825.41
VPC STA = 319+75.00
VPC ELEV = 825.94
HP STA = 312+67.99
HP ELEV = 826.10HP
EXISTING R/L PROFILE
PROPOSED R/L PROFILE
0.60%
-0.30%
0.71%
LP STA = 317+58.74
LP ELEV = 824.909
VPI STA = 321+25.00
VPI ELEV = 827.01
g1 = 0.71%
g2 = 1.82%
L = 300.00
K = 271

STA 316+50, 0.0° SKEW
60 FT CPRC CLASS IV 36-INCH
INVERT LT: 819.22
INVERT RT: 819.03
SLOPE: -0.31%

840
830
820
810

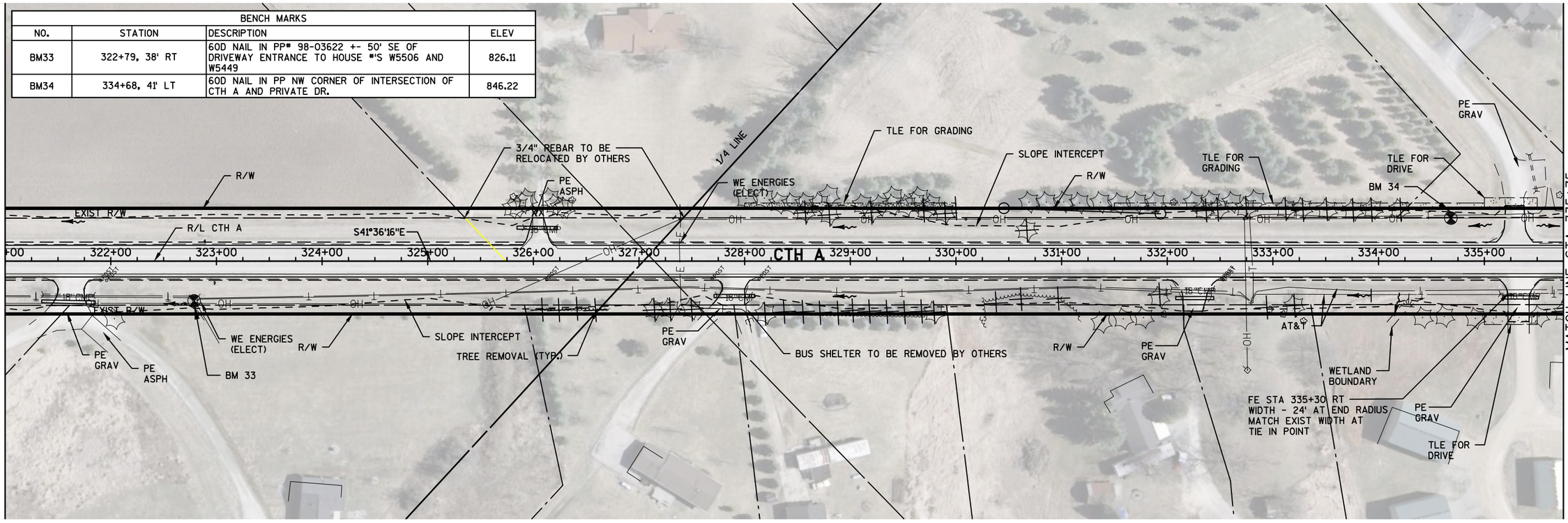
306+00	306+50	307+00	307+50	308+00	308+50	309+00	309+50	310+00	310+50	311+00	311+50	312+00	312+50	313+00	313+50	314+00	314+50	315+00	315+50	316+00	316+50	317+00	317+50	318+00	318+50	319+00	319+50	320+00	320+50	321+00
823.51	823.66	823.82	824.02	824.21	824.53	824.72	825.01	825.22	825.42	825.58	825.83	825.92	825.83	825.76	825.62	825.52	825.30	825.00	825.00	824.94	824.89	824.89	824.92	825.06	825.20	825.35	825.66	826.08	826.59	827.11	827.74
822.90	823.20	823.50	823.80	824.10	824.40	824.70	825.00	825.30	825.57	825.79	825.95	826.05	826.10	826.09	826.03	825.91	825.76	825.63	825.59	825.44	825.29	825.14	825.00	824.91	824.95	825.12	825.41	825.77	826.13	826.58	827.12

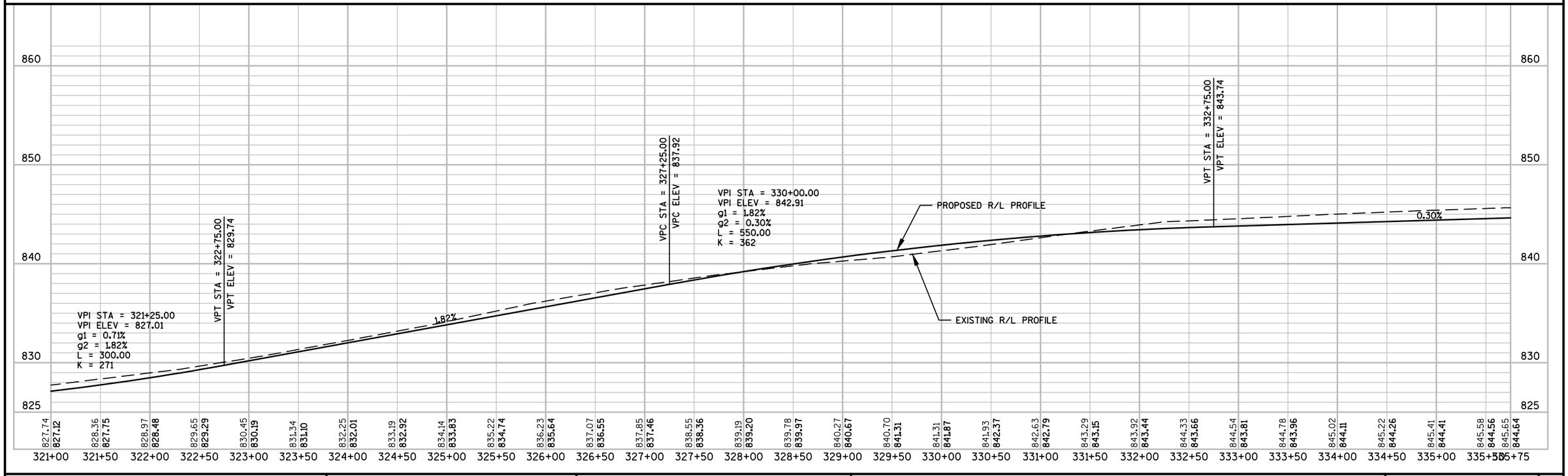
PROJECT NO: 6505-03-71	HWY: CTH A	COUNTY: OUTAGAMIE	PLAN AND PROFILE: CTH A	SHEET 60 E

FILE NAME : F:\TR\JOBS\E2182A15\CIVIL 3D 2014\SHEETSPLAN\65050371-050100-PP.DWG
LAYOUT NAME - 65050371-050106-PP
PLOT DATE : 11/5/2018 7:37 AM PLOT BY : MATT TOMSOVIC PLOT NAME : PLOT SCALE : **********

WISDOT/CADDS SHEET 44

BENCH MARKS			
NO.	STATION	DESCRIPTION	ELEV
BM33	322+79, 38' RT	60D NAIL IN PP* 98-03622 +- 50' SE OF DRIVEWAY ENTRANCE TO HOUSE *'S W5506 AND W5449	826.11
BM34	334+68, 41' LT	60D NAIL IN PP NW CORNER OF INTERSECTION OF CTH A AND PRIVATE DR.	846.22





PROJECT NO: 6505-03-71	HWY: CTH A	COUNTY: OUTAGAMIE	PLAN AND PROFILE: CTH A	SHEET 61	E

BENCH MARKS			
NO.	STATION	DESCRIPTION	ELEV
BM34	334+68, 41' LT	60D NAIL IN PP NW CORNER OF INTERSECTION OF CTH A AND PRIVATE DR.	846.22
BM35	345+46, 200' RT	60D NAIL IN PP SERVICING SIGN FOR ROMY'S NITINGALE EAST OF INTERSECTION OF CTH A AND STH 47	846.26

PI STA = 343+64.01
Y = 619778.961
X = 814753.807
DELTA = 044°17'54"
D = 019°05'55"
T = 122.12
L = 231.94
R = 300.00
PC STA = 342+41.90
PT STA = 344+73.84
SE = 3.5%

MATCH LINE STA 335+75

EXISTING GATE TO REMAIN
COMM. ENTRANCE ASPH
CUT 18-IN PIPE AND ADJUST ENDWALL TO MATCH NEW BACKSLOPE
SLOPE INTERCEPT
R/W
EXIST R/W
S41°36'16"E
WE ENERGIES (ELECT)
344+86
BM 35
STH 47
SECTION LINE
CTH A
336+00
337+00
338+00
339+00
340+00
341+00
342+00
343+00
344+00
AT&T
SLOPE INTERCEPT
R/L CTH A
R/W
BEGIN TAPER 343+00
WE ENERGIES (ELECT)
SAWCUT AND MATCH EX.
19"x30" CULVERT PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL CLASS HE-IV AND 2 APRON ENDWALLS REQ'D
REMOVE 24" CMP - 52 LF
END PROJECT
STA 343+73.30
Y=619,793.934
X=814,778.385

PVI STA = 343+73.30
PVI ELEV = 847.03
EXISTING R/L PROFILE
PROPOSED R/L PROFILE
0.30%
REMOVE 24" CMP - 52 LF

STA 336+00, 0.0° SKEW
54 FT CPRCHE CLASS HE-IV 19x30-INCH
INVERT RT: 840.71
INVERT LT: 841.16
SLOPE: 0.83%

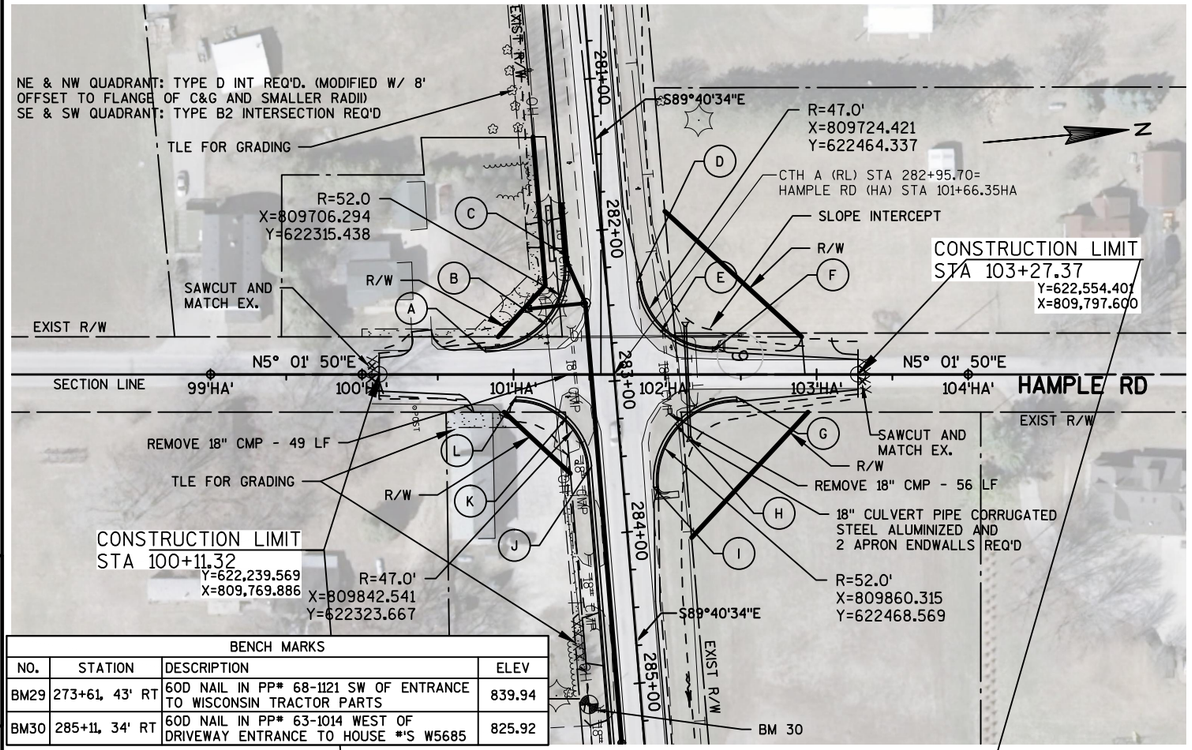
60 50 40 30 25
860 850 840 830 825

845.65 844.64 845.68 844.71 845.72 844.86 845.72 845.01 845.71 845.16 845.86 845.31 846.03 845.46 846.23 845.61 846.37 845.76 846.40 845.91 846.45 846.06 846.52 846.21 846.63 846.36 846.76 846.51 846.84 846.66 846.87 846.81 846.95 846.96 847.18 847.66

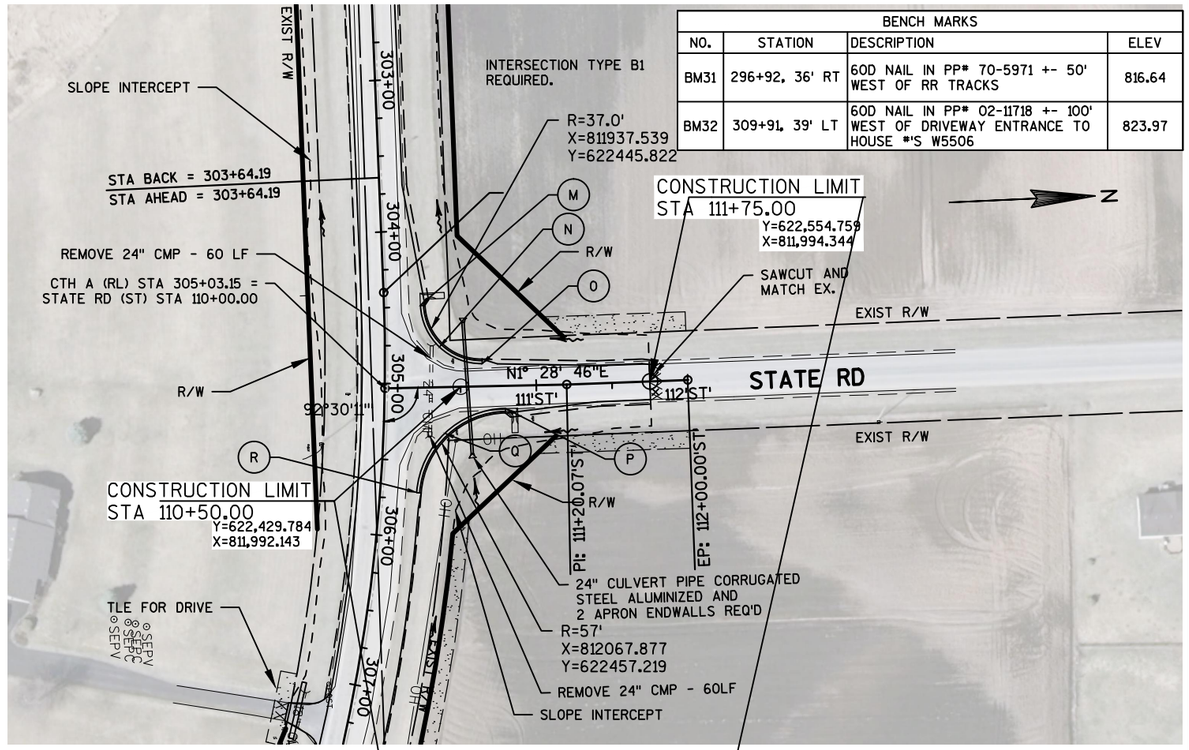
335+75 336+00 336+50 337+00 337+50 338+00 338+50 339+00 339+50 340+00 340+50 341+00 341+50 342+00 342+50 343+00 343+50 344+00 344+50 345+00

PROJECT NO: 6505-03-71	HWY: CTH A	COUNTY: OUTAGAMIE	PLAN AND PROFILE: CTH A	SHEET 62	E

FILE NAME : F:\TR\JOBS\E2182A15\CIVIL 3D 2014\SHEETSPLAN\65050371-050100-PP.DWG
LAYOUT NAME - 65050371-050108-PP
PLOT DATE : 11/5/2018 7:38 AM PLOT BY : MATT TOMSOVIC PLOT NAME : PLOT SCALE : **********

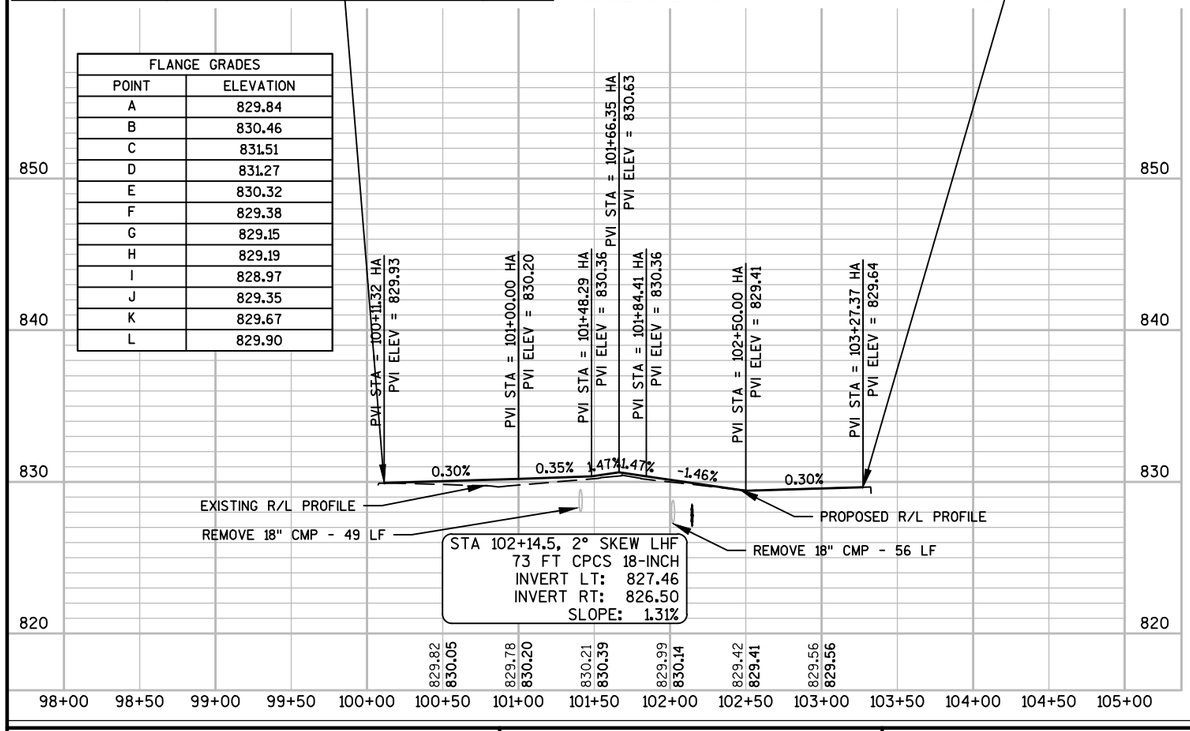


BENCH MARKS			
NO.	STATION	DESCRIPTION	ELEV
BM29	273+61, 43' RT	60D NAIL IN PP* 68-1121 SW OF ENTRANCE TO WISCONSIN TRACTOR PARTS	839.94
BM30	285+11, 34' RT	60D NAIL IN PP* 63-1014 WEST OF DRIVEWAY ENTRANCE TO HOUSE #'S W5685	825.92

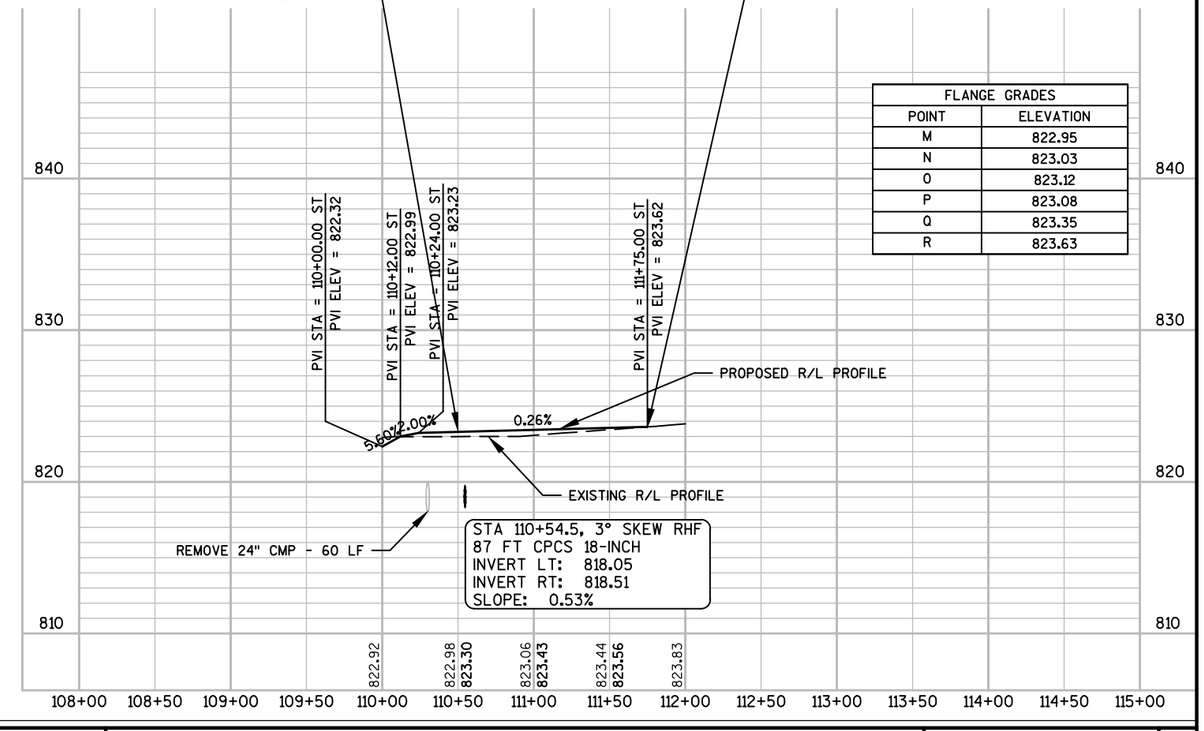


BENCH MARKS			
NO.	STATION	DESCRIPTION	ELEV
BM31	296+92, 36' RT	60D NAIL IN PP* 70-5971 +- 50' WEST OF RR TRACKS	816.64
BM32	309+91, 39' LT	60D NAIL IN PP* 02-11718 +- 100' WEST OF DRIVEWAY ENTRANCE TO HOUSE #'S W5506	823.97

FLANGE GRADES	
POINT	ELEVATION
A	829.84
B	830.46
C	831.51
D	831.27
E	830.32
F	829.38
G	829.15
H	829.19
I	828.97
J	829.35
K	829.67
L	829.90



FLANGE GRADES	
POINT	ELEVATION
M	822.95
N	823.03
O	823.12
P	823.08
Q	823.35
R	823.63

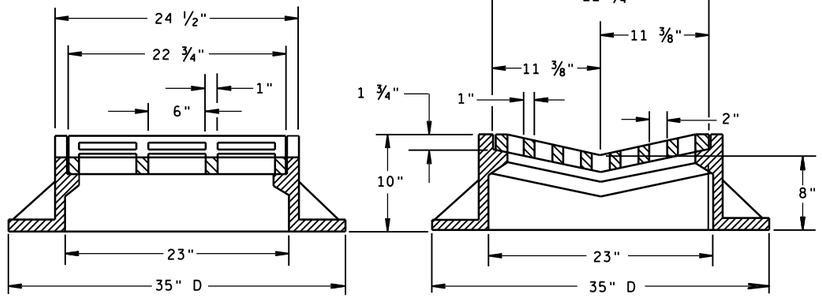


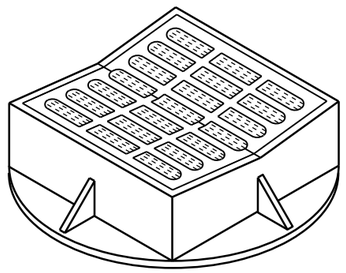
PROJECT NO: 6505-03-71	HWY: CTH A	COUNTY: OUTAGAMIE	PLAN AND PROFILE: HAMPLE RD AND STATE RD	SHEET 63	E

Standard Detail Drawing List

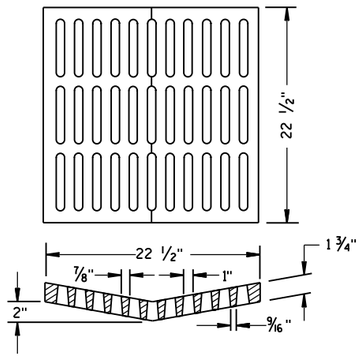
08A05-19B	INLET COVERS TYPE B, B-A, C, MS, MS-A, & WM
08A05-19C	INLET COVERS TYPE F, HM, HM-S, S, T, V, HM-GJ, & HM-GJ-S
08A05-19D	INLET COVER TYPE BW, MANHOLE COVERS, TYPE K, J, J-S, L & M
08B09-02	MANHOLES 3-FT, 4-FT, 5-FT, 6-FT, 7-FT AND 8-FT DIAMETER
08C07-02	INLETS 2X2-FT, 2X2.5-FT, 2X3-FT AND 2.5X3-FT
08C08-02	INLETS MEDIAN 1 AND 2 GRATE
08D01-20A	CONCRETE CURB & GUTTER
08D01-20B	CONCRETE CURB, TIES AND CURB AND GUTTER APPLICATIONS
08D04-05	CONCRETE SURFACE DRAINS & ASPHALTIC FLUMES
08D21-01	DRIVEWAYS WITHOUT CURB & GUTTER
08E08-03	TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS
08E09-06	SILT FENCE
08E10-02	INLET PROTECTION TYPE A, B, C AND D
08F01-11	APRON ENDWALLS FOR CULVERT PIPE
08F02-01	APRON ENDWALLS FOR PIPE ARCH AND ELLIPTICAL PIPE
08F04-07	JOINT TIES FOR CONCRETE PIPE AND CONCRETE COLLAR DETAIL
08F06-04	REINFORCED CONCRETE APRON ENDWALL FOR PIPE UNDERDRAIN
09A01-13A	AT-GRADE SIDE ROAD INTERSECTION, TYPES "B1", "B2", "C" AND D AND TEE INTERSECTION BYPASS LANE
13A11-03A	2-LANE RURAL CENTER LINE RUMBLE STRIP, MILLING
13A11-03B	2-LANE RURAL CENTER LINE RUMBLE STRIP, MILLING
13B01-10	PAVEMENT DETAILS FOR RAILROAD APPROACH
15A03-02A	FLEXIBLE MARKER POST FOR CULVERT END
15A03-02B	FLEXIBLE MARKER POST FOR CULVERT END
15C02-06A	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-06B	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-06C	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
15C07-14B	PAVEMENT MARKING WORDS
15C08-18A	LONGITUDINAL MARKING (MAINLINE)
15C09-11A	SIGNING AND PAVEMENT MARKING DETAILS FOR RAILROAD-HIGHWAY GRADE CROSSINGS
15C11-07B	CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS
15C12-06	TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION
15C19-05A	MOVING PAVEMENT MARKING OPERATION TWO-LANE TWO-WAY ROADWAY
15C35-02A	PAVEMENT MARKING (INTERSECTIONS)
15D38-02A	TEMPORARY TRAFFIC CONTROL SIGN MOUNTING
15D38-02B	ATTACHMENT OF SIGNS TO POSTS

6



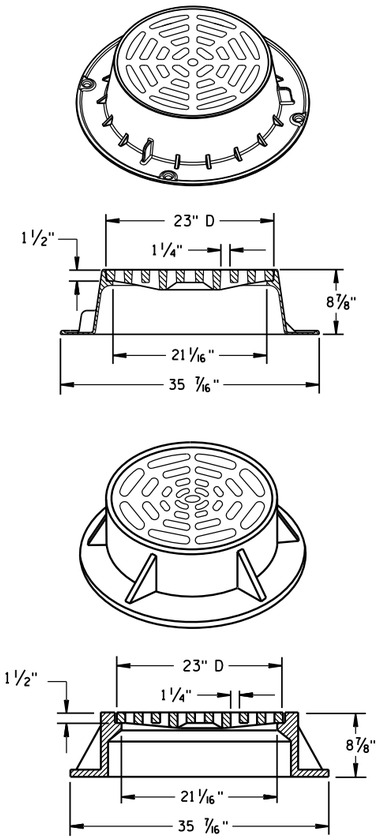


TYPE "B"



ALTERNATIVE GRATE FOR TYPE "B" COVER

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



TYPE "C"

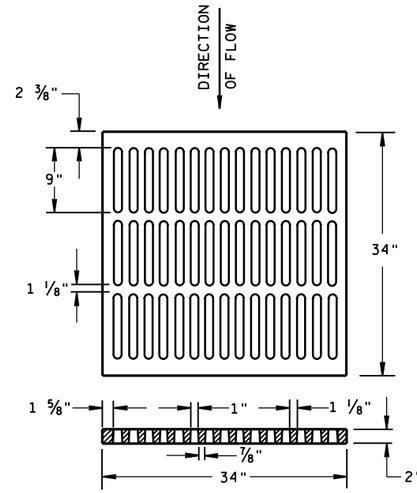
NOTE: EITHER CASTING IS ACCEPTABLE

GENERAL NOTES

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

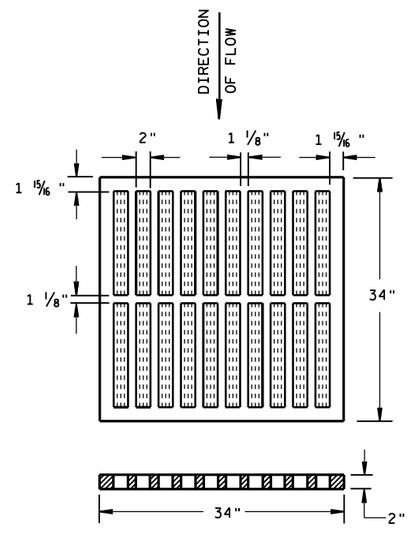
DETAIL DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR CATCH BASIN, MANHOLE AND INLET COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

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



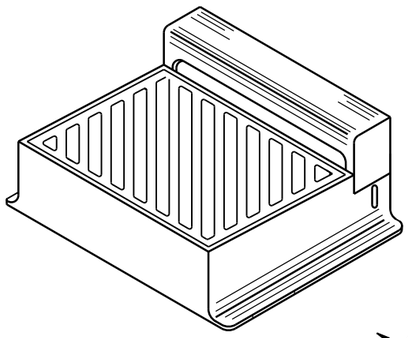
ALTERNATIVE TYPE "MS"

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

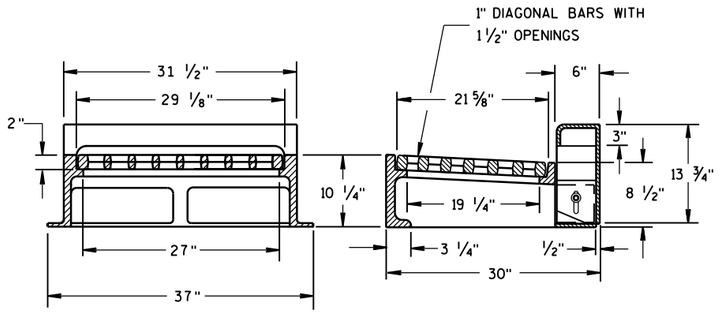


TYPE "MS"

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



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



NOTE: CURB BOX HEIGHT ADJUSTABLE 6" TO 9"

TYPE "WM"

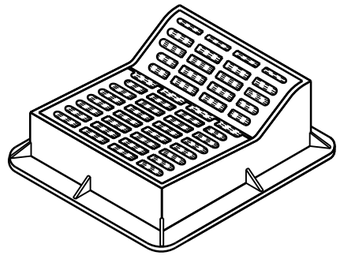
INLET COVERS
TYPE B, B-A, C, MS, MS-A, & WM

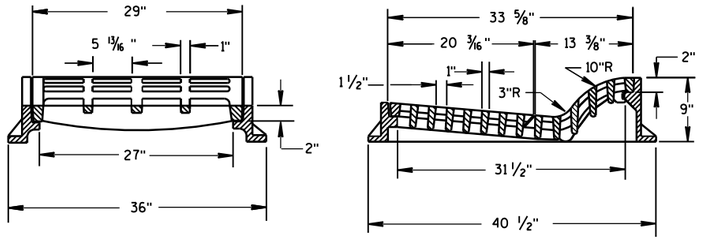
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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

6

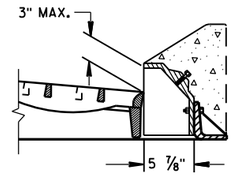
S.D.D. 8 A 5-19b





TYPE "F"

USE WITH TYPES A & D CONCRETE CURB & GUTTER, 36 INCH.



ALTERNATIVE CURB BOX FOR TYPE "HM" COVER

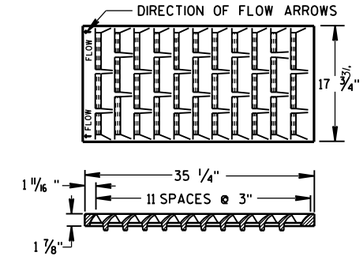
USE WITH TYPES G & J CONCRETE CURB & GUTTER, 30 INCH
NOTED AS TYPE HM-GJ ON DRAINAGE TABLE

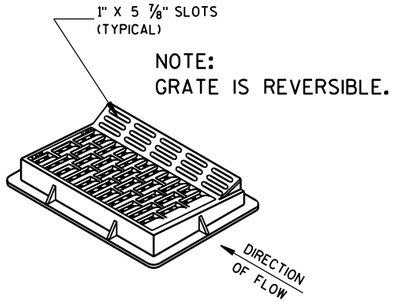
NOTE:
SPECIAL GRATE FOR THE
TYPE "H" COVER MAY ALSO BE
USED FOR THE TYPE "HM-GJ" COVER
NOTED AS TYPE HM-GJ-S ON DRAINAGE TABLE

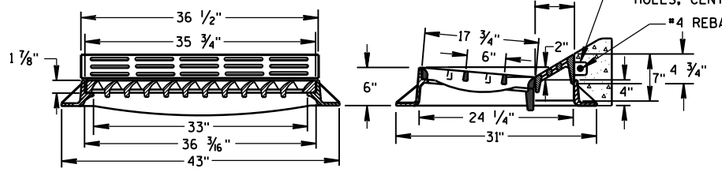
GENERAL NOTES

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 INLET COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.



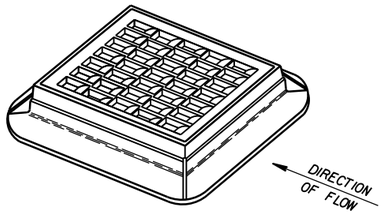


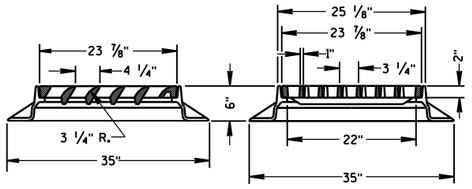


TYPE "HM"

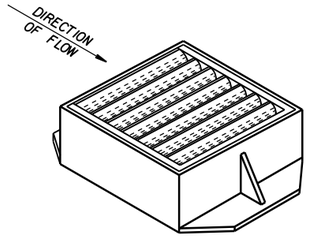
USE WITH TYPES A & D CONCRETE CURB & GUTTER, 36 INCH.

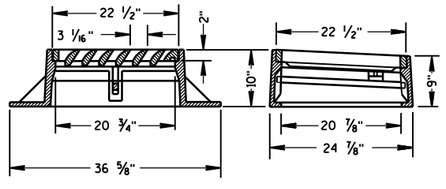
NOTE:
SPECIAL GRATE FOR THE
TYPE "H" COVER MAY ALSO BE
USED FOR THE TYPE "HM" COVER
NOTED AS TYPE HM-S ON DRAINAGE TABLE



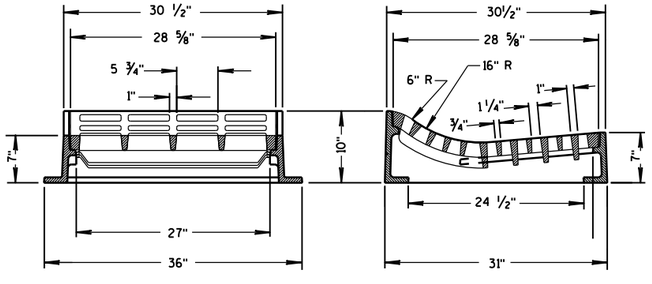


TYPE "S"



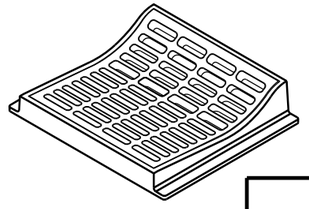


TYPE "V"



TYPE "T"

USE WITH TYPES R & T CONCRETE CURB & GUTTER, 36 INCH.



INLET COVERS
TYPE F, HM, HM-S, S, T, V, HM-GJ, & HM-GJ-S

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
11/27/2013
DATE

/S/ Jerry H. Zogg
ROADWAY STANDARDS ENGINEER

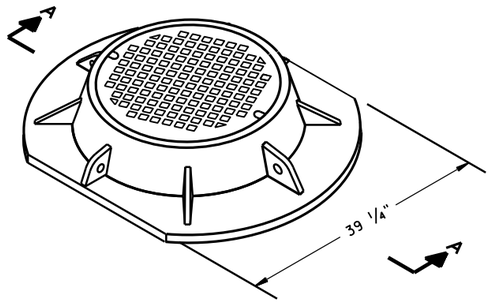
FHWA

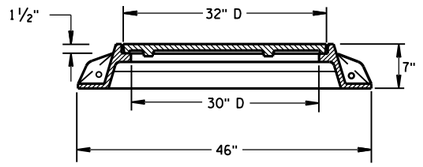
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S.D.D. 8 A 5-19c

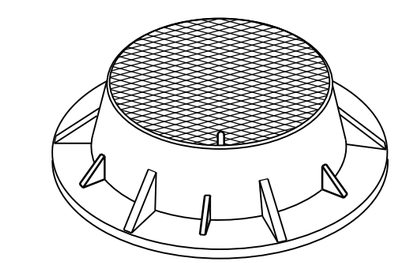
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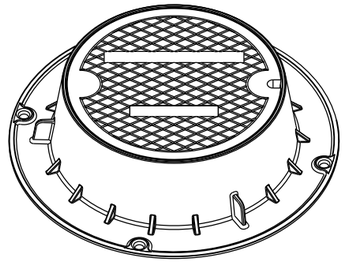
S.D.D. 8 A 5-19c

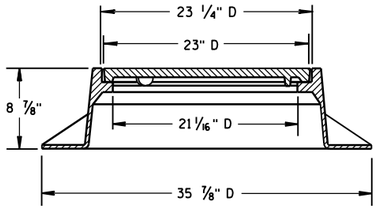


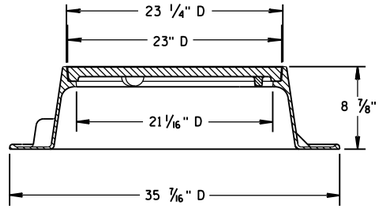


SECTION A-A
TYPE "K"









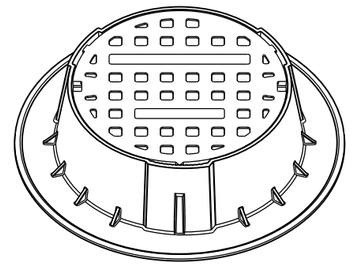
TYPE "J"
NOTE: EITHER CASTING IS ACCEPTABLE

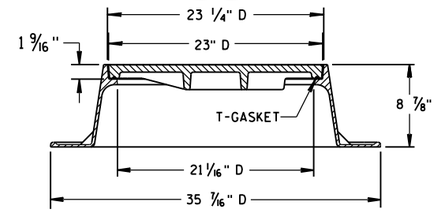
GENERAL NOTES

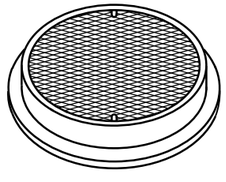
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

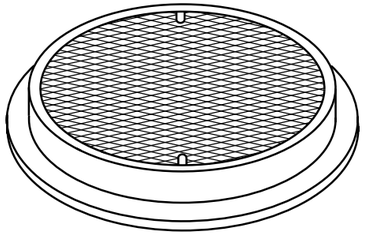
DETAIL DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR MANHOLE COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

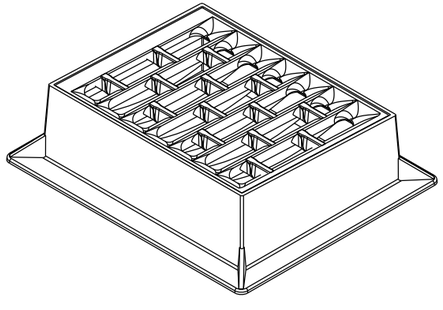
ROUND FRAMES AND COVERS SHALL HAVE CONTINUOUSLY MACHINED BEARING SURFACES TO PREVENT ROCKING AND RATTLING.

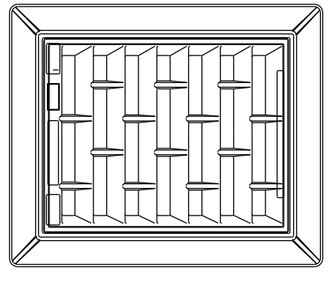


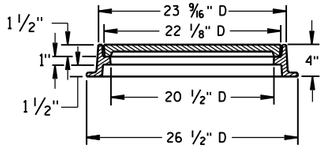




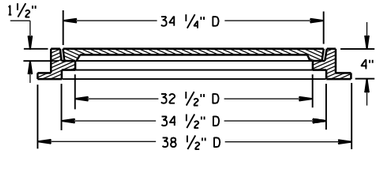




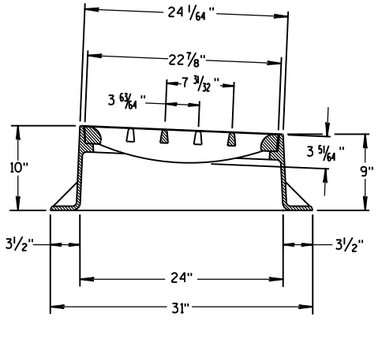


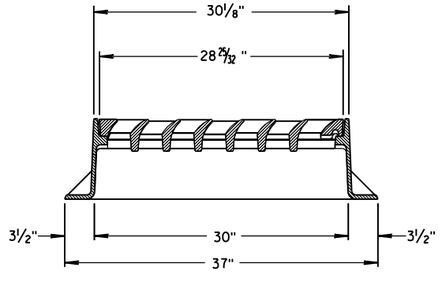


TYPE "L"

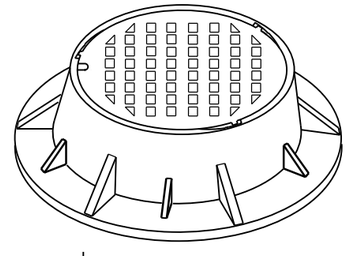


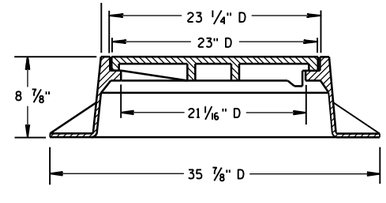
TYPE "M"





INLET COVER TYPE "BW"





TYPE "J" SPECIAL
TYPE "B" NON-ROCKING SELF-SEAL LID
(NOTED AS TYPE J-S ON THE DRAINAGE TABLE)
NOTE: EITHER CASTING IS ACCEPTABLE

INLET COVER TYPE BW
MANHOLE COVERS, TYPE K, J, J-S, L & M

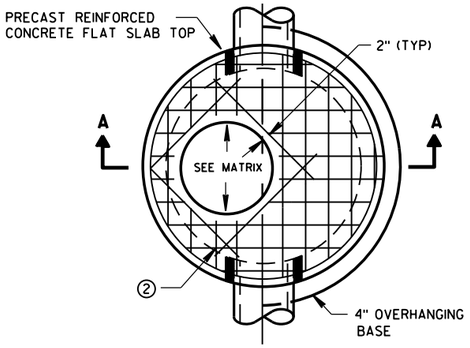
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
11/27/2013
DATE
FHWA

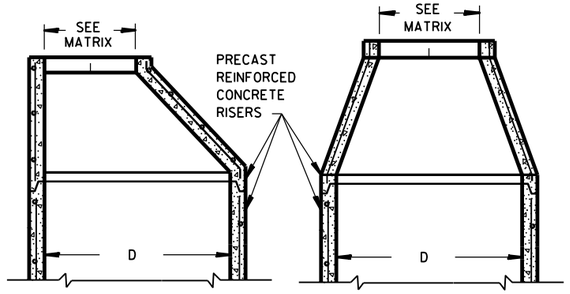
/S/ Jerry H. Zogg
ROADWAY STANDARDS DEVELOPMENT ENGINEER

6

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

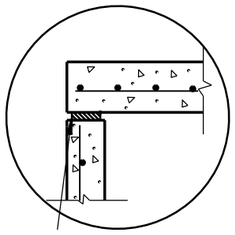


PLAN VIEW CIRCULAR OPENING

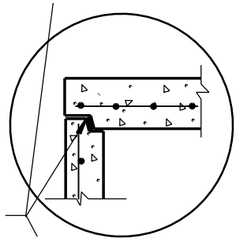


OPTIONAL PRECAST REINFORCED CONCRETE ECCENTRIC TOP

OPTIONAL PRECAST REINFORCED CONCRETE CONCENTRIC TOP

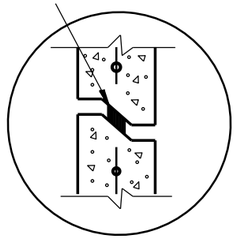


TOP WITH PLAIN END JOINT



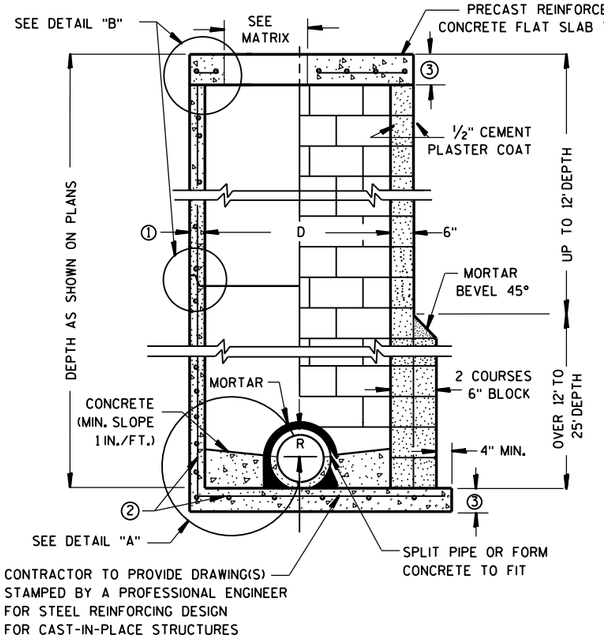
JOINTS TO BE SEALED WITH A BUTYL RUBBER SEAL PER SEALANT MANUFACTURERS RECOMMENDATIONS CONFORMING TO ASTM C990 (TYP)

TOP WITH TONGUE AND GROOVE JOINT



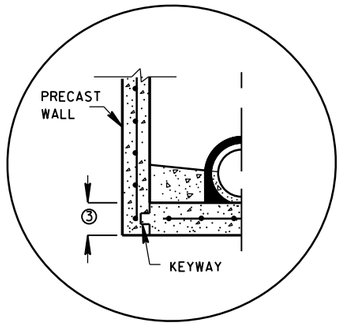
RISER WITH TONGUE AND GROOVE JOINT

DETAIL "B"

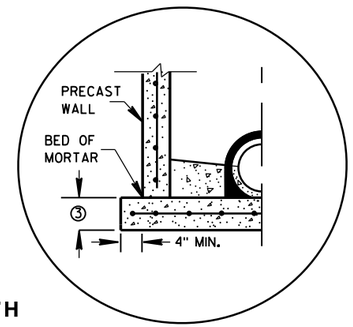


PRECAST REINFORCED CONCRETE WITH MONOLITHIC BASE

CONCRETE BLOCK WITH CAST-IN-PLACE OR PRECAST REINFORCED CONCRETE BASE ②

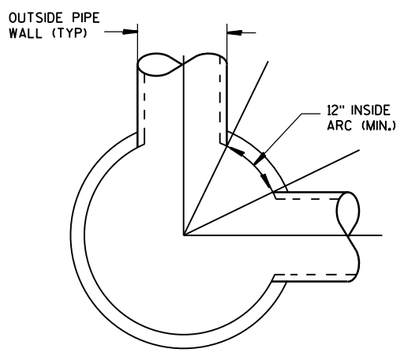


PRECAST REINFORCED CONCRETE WITH INTEGRAL BASE OPTION



SEPARATE PRECAST REINFORCED CONCRETE BASE OPTION

DETAIL "A"



DETAIL "C"

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

ECCENTRIC CONE TOPS MAY BE USED ON ALL STRUCTURES, AND 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 DIMENSION OF 1 INCH.

STEPS OF APPROVED POLYPROPYLENE PLASTIC COATED REINFORCEMENT BAR ARE ACCEPTABLE. REINFORCING BAR MUST BE A MINIMUM OF ½" 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.

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

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

ALL PRECAST MANHOLE UNITS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF AASHTO DESIGNATION M 199.

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 "C".

① MINIMUM WALL THICKNESS SHALL BE 4 INCHES FOR 3-FT, 5 INCHES FOR 4-FT, 6 INCHES FOR 5-FT, 7 INCHES FOR 6-FT, 8 INCHES FOR 7-FT AND 9 INCHES FOR 8-FT DIAMETER PRECAST MANHOLES.

② FOR PRECAST MANHOLES PROVIDE REINFORCING STEEL IN ACCORDANCE TO AASHTO M199.

③ PRECAST FLAT SLAB TOPS AND BASES WITH A DIAMETER OF 48" AND LESS SHALL HAVE A MINIMUM THICKNESS OF 6". PRECAST FLAT SLAB TOPS AND BASES WITH A DIAMETER LARGER THAN 48" SHALL HAVE A MINIMUM THICKNESS OF 8".

MANHOLE COVER OPENING MATRIX

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

PIPE MATRIX

MANHOLE SIZE	MAXIMUM INSIDE PIPE DIAMETER FOR TWO PIPES	
	180° SEPARATION (IN)	90° SEPARATION (IN)
3-FT	15	12
4-FT	24	18
5-FT	36	24
6-FT	42	36
7-FT	48	36
8-FT	60	42

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

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

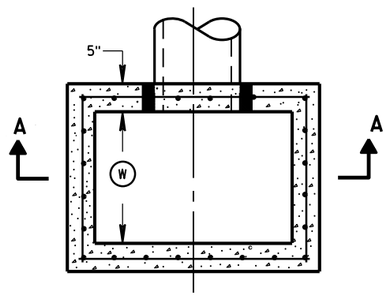
APPROVED

Sept., 2016
DATE

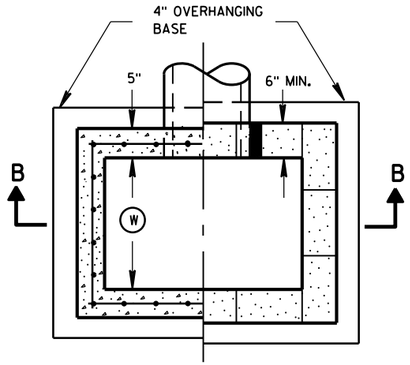
/S/ Rodney Taylor
ROADWAY STANDARDS DEVELOPMENT
UNIT SUPERV

FHWA

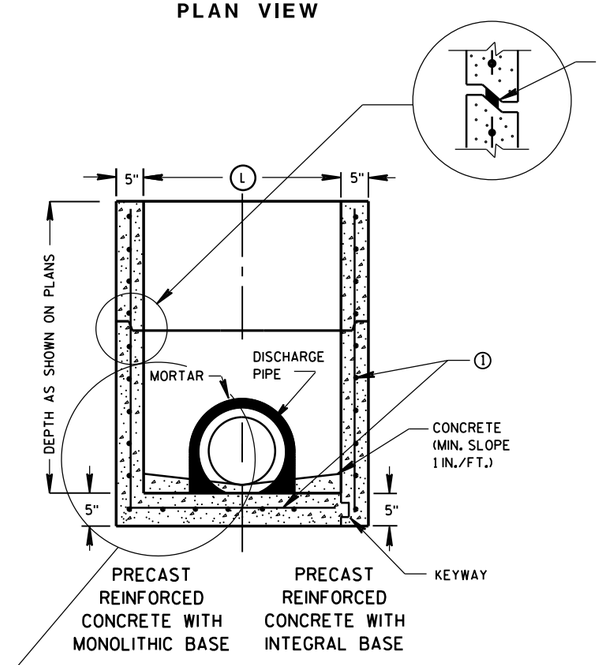
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S.D.D. 8 B 9-2



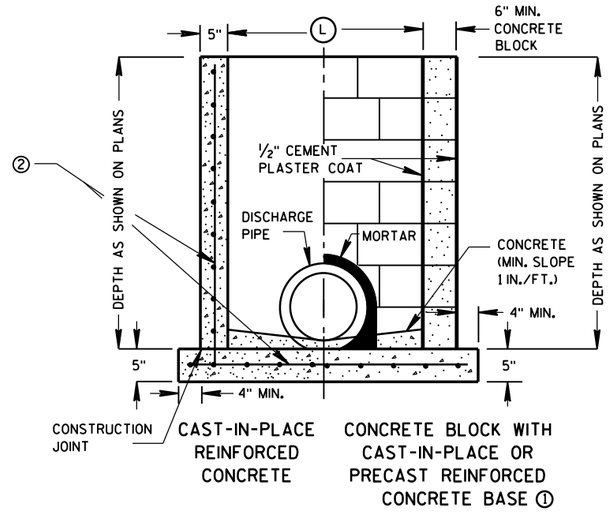
PLAN VIEW



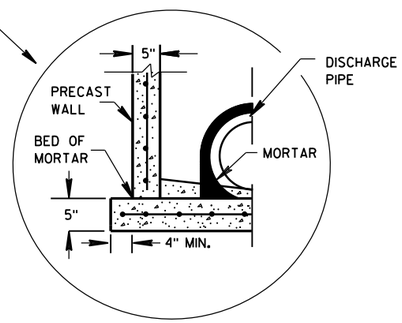
PLAN VIEW



SECTION A-A



SECTION B-B



SEPARATE PRECAST REINFORCED CONCRETE BASE OPTION

GENERAL NOTES

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

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

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

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

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

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

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

4" OVERHANGING BASES ARE REQUIRED FOR CAST-IN-PLACE REINFORCED CONCRETE AND 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.

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

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

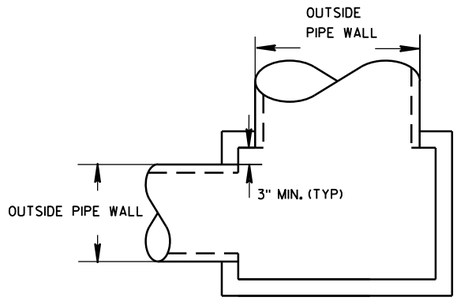
② CONTRACTOR TO PROVIDE DRAWING(S) STAMPED BY A PROFESSIONAL ENGINEER FOR STEEL REINFORCING DESIGN FOR CAST-IN-PLACE STRUCTURES.

INLET COVER MATRIX

INLET SIZE		INLET COVER TYPE	ALL A'S	ALL B'S	BW	F	ALL H'S	S	T	V	WM
	WIDTH (W) (FT)	LENGTH (L) (FT)									
2X2-FT	2	2	X	X				X		X	
2X2.5-FT	2	2.5			X			X	X	X	X
2X3-FT	2	3					X				
2.5X3-FT	2.5	3				X					

PIPE MATRIX

INLET SIZE	MAXIMUM INSIDE PIPE DIAMETER	
	WIDTH (IN)	LENGTH (IN)
2X2-FT	12	12
2X2.5-FT	12	18
2X3-FT	12	24
2.5X3-FT	18	24



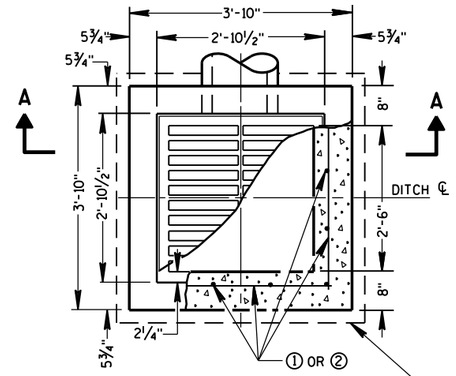
DETAIL "A"

INLETS 2X2-FT, 2X2.5-FT, 2X3-FT AND 2.5X3-FT

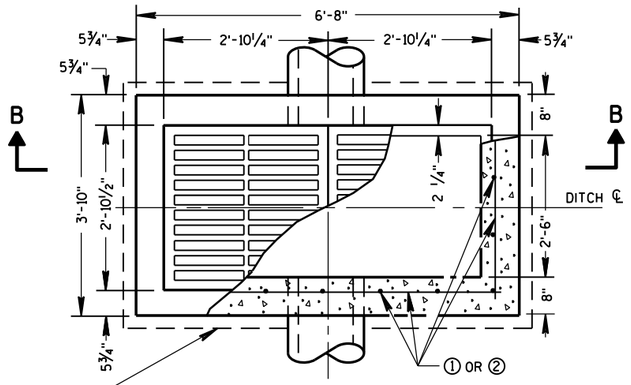
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept., 2016 — DATE
/S/ Rodney Taylor
ROADWAY STANDARDS D IT UNIT SUPERVIS
FHWA

INLETS 2X2-FT, 2X2.5-FT, 2X3-FT AND 2.5X3-FT

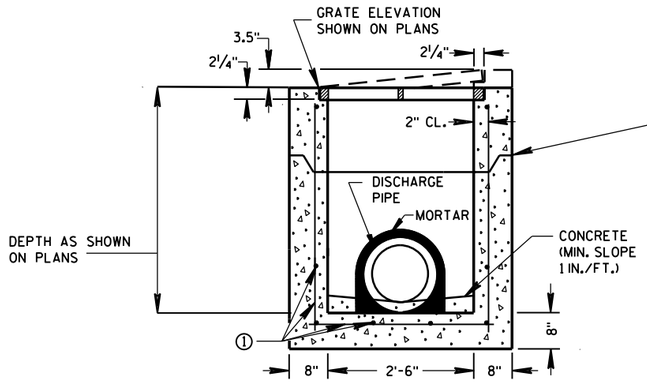


PLAN VIEW

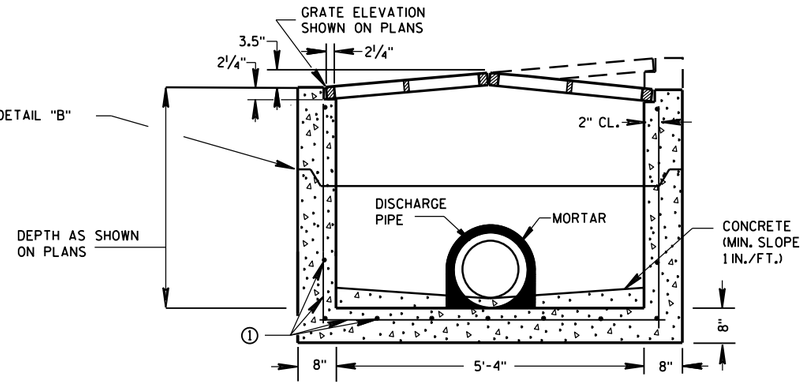


PLAN VIEW

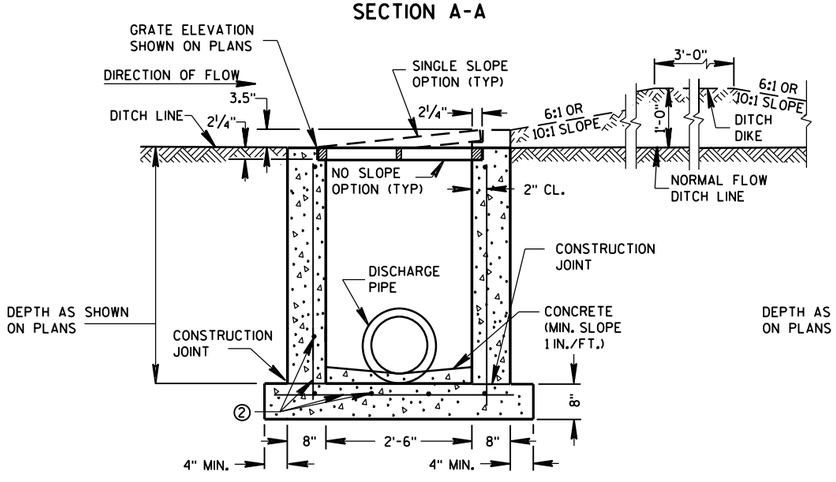
4" OVERHANGING BASE ON REINFORCED CAST-IN-PLACE CONCRETE INLETS



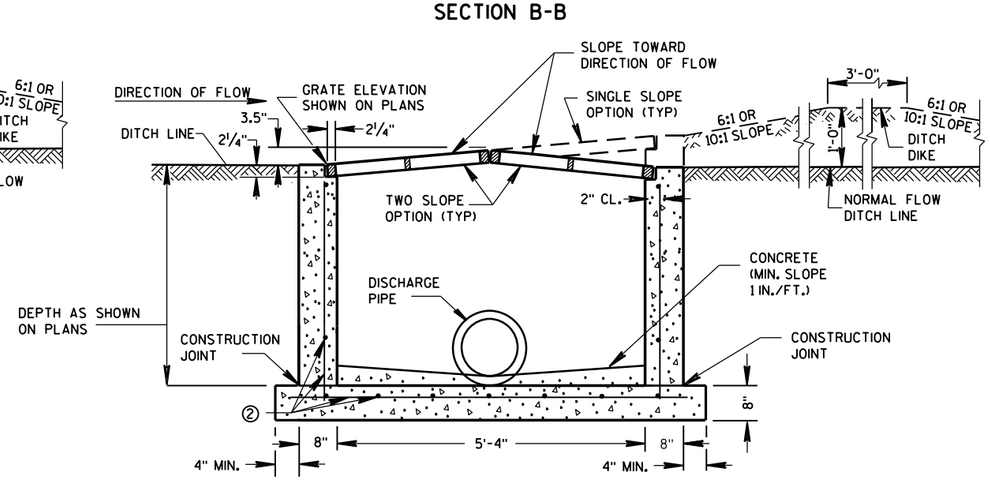
PRECAST REINFORCED CONCRETE SECTION A-A



PRECAST REINFORCED CONCRETE SECTION B-B



REINFORCED CAST-IN-PLACE CONCRETE SECTION A-A



REINFORCED CAST-IN-PLACE CONCRETE SECTION B-B

INLETS MEDIAN 1 GRATE

INLETS MEDIAN 2 GRATE

GENERAL NOTES

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

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

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

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

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

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

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

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

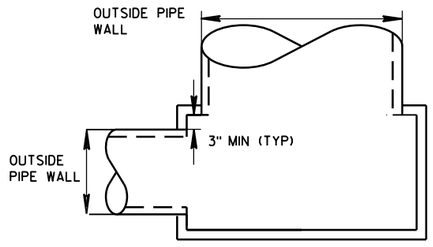
MAXIMUM INSIDE PIPE DIAMETER DETERMINED BY 3" CLEARANCE ON EACH SIDE OF THE OUTSIDE WALL OF THE PIPE. SEE DETAIL "A". ASSUMES PIPE ENTERS PERPENDICULAR TO THE STRUCTURE.

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

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

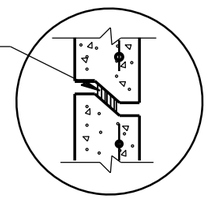
PIPE MATRIX

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



DETAIL "A"

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



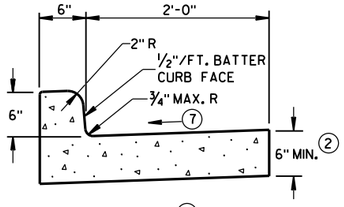
DETAIL "B"

INLETS MEDIAN 1 AND 2 GRATE

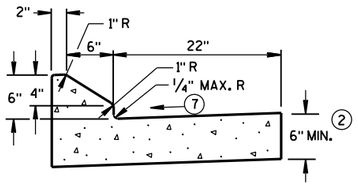
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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

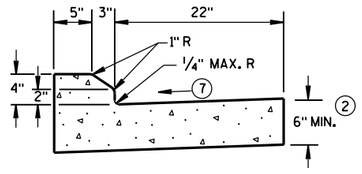
6
S.D.D. 8 C 8-2



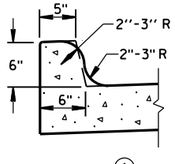
TYPES A (1) & D



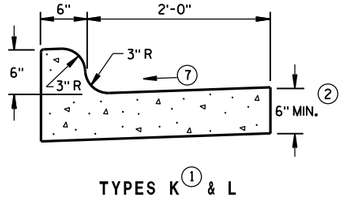
6" SLOPED CURB TYPES G (1) & J



4" SLOPED CURB TYPES G (1) & J

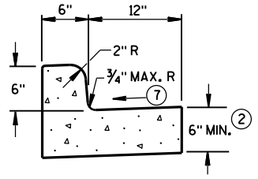


TYPES K (1) & L
(OPTIONAL CURB SHAPE)



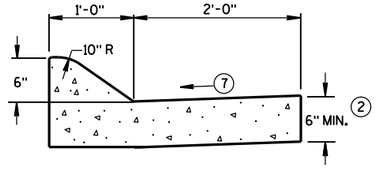
TYPES K (1) & L

CONCRETE CURB & GUTTER 30"

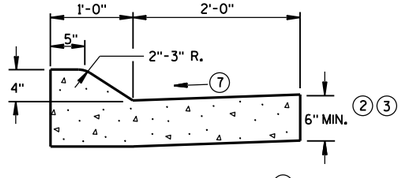


TYPES A (1) & D

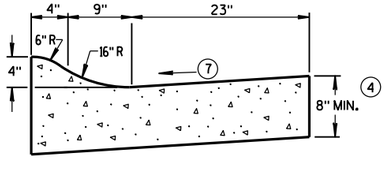
CONCRETE CURB & GUTTER 18"



6" SLOPED CURB TYPES A (1) & D

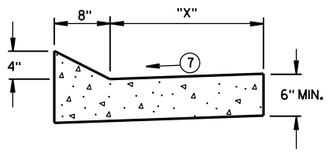


4" SLOPED CURB TYPES A (1) & D



4" SLOPED CURB TYPES R (1) & T (5)

CONCRETE CURB & GUTTER 36"



TYPES TBT & TBTT (1)

CONCRETE CURB & GUTTER

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

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS 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 & GUTTER SHALL CONFORM TO THE DETAILS SHOWN FOR CONCRETE CURB & GUTTER INCLUDING THE TRANSVERSE GUTTER SLOPE.

WHERE THE TRANSVERSE JOINTS IN THE PAVEMENT ARE REQUIRED TO BE SEALED, THE JOINTS IN THE INTEGRAL CURB AND GUTTER SHALL BE SEALED TO THE FACE OF CURB WITH THE SAME TYPE OF SEALANT. THE COST OF FURNISHING AND INSTALLING THIS SEALANT SHALL BE INCIDENTAL TO THE ITEM CONCRETE CURB AND GUTTER.

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 GUTTER 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) THE FACE OF CURB IS 6" FROM THE BACK OF CURB.

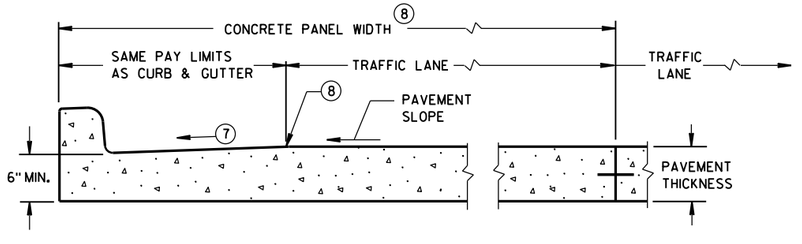
(6) WHEN REVERSE SLOPE GUTTER IS REQUIRED, THE LOCATION(S) WILL BE SHOWN ELSEWHERE IN THE PLAN.

(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.

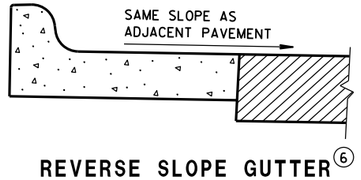
PAVEMENT THICKNESS AND MAXIMUM CONCRETE PANEL WIDTH TABLE

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



PARTIAL SECTION OF PAVEMENT *
WITH INTEGRAL CURB & GUTTER

* BIKE LANE IS NOT SHOWN.



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

CONCRETE CURB & GUTTER

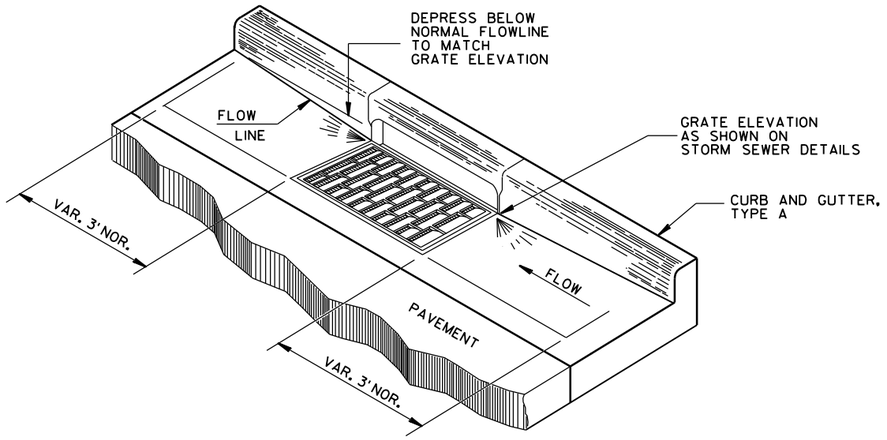
STATE OF WISCONSIN
DEPARTMENT OF TRANSPO...

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S.D.D. 8 D 1-20a



DETAIL OF CURB AND GUTTER AT INLETS

(TYPE H INLET COVER SHOWN)

GENERAL NOTES

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

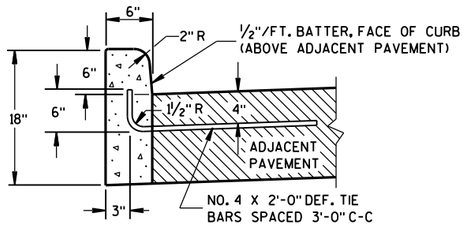
PAVEMENT TIES AND TIE BARS SHALL BE EPOXY COATED IN CONFORMANCE WITH SUBSECTION 505.2.6.2 OF THE STANDARD SPECIFICATIONS.

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

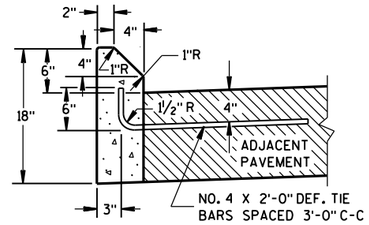
(1) TIE BARS ARE REQUIRED FOR CURB AND GUTTER TYPES A, G, K, R AND TBTT.

(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.

(9) REFER TO SDD 8D18 AND SDD 8D19 FOR ADDITIONAL DRIVEWAY ENTRANCE CURB DETAILS.

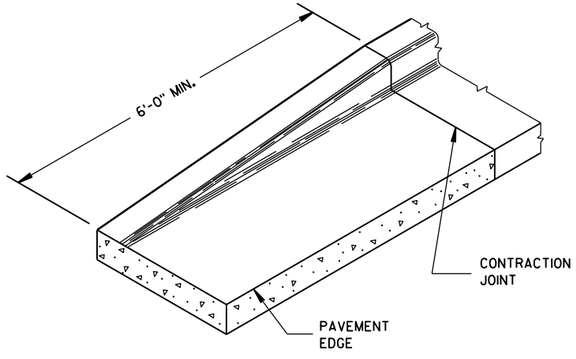


TYPES A(1) & D

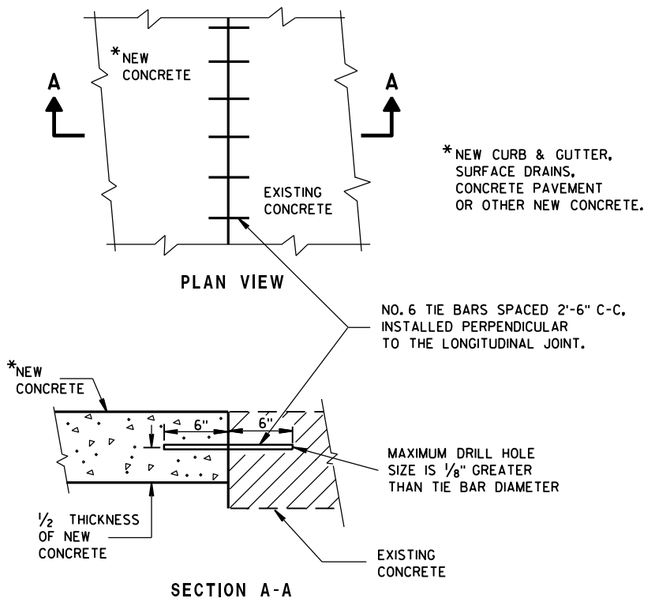


TYPES G(1) & J

CONCRETE CURB



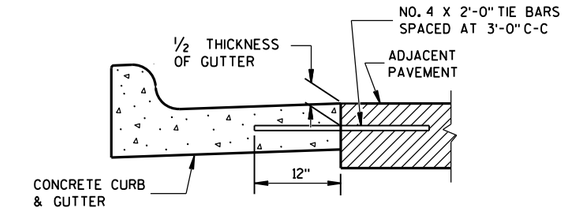
END SECTION CURB & GUTTER



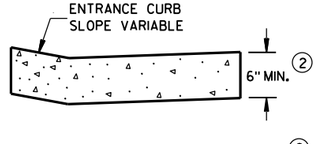
PLAN VIEW

SECTION A-A

TIE BARS DRILLED INTO EXISTING PAVEMENT



TYPICAL TIE BAR LOCATION (1)



DRIVEWAY ENTRANCE CURB (9)

(WHEN DIRECTED BY THE ENGINEER)

CONCRETE CURB, TIES AND CURB AND GUTTER APPLICATIONS

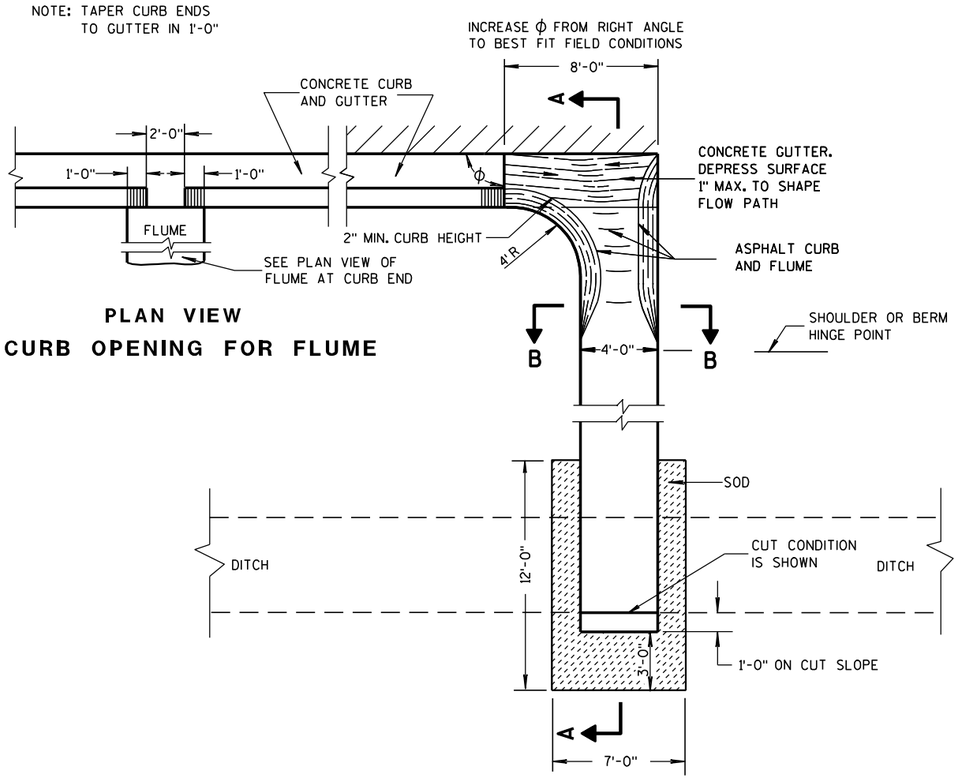
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June, 2017 — DATE
/S/ Rodney Taylor
ROADWAY STANDARDS UNIT SUPERVISOR
72
FHWA
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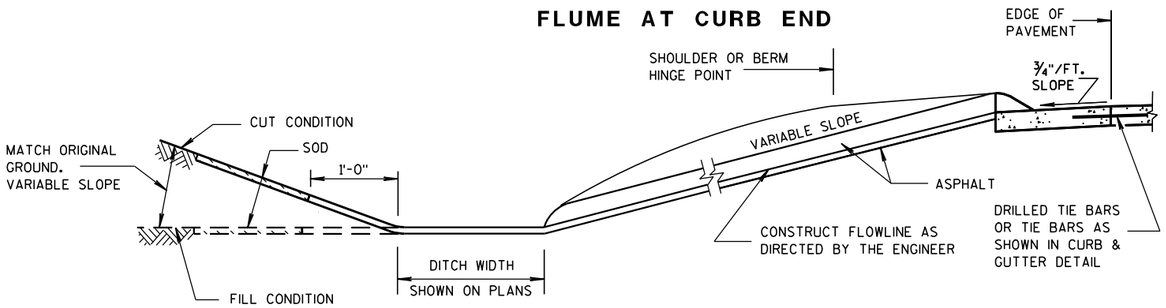
S.D.D. 8 D 1-20b

ASPHALTIC FLUME

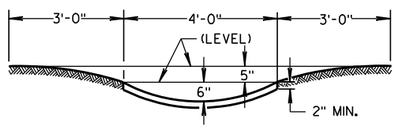


PLAN VIEW
CURB OPENING FOR FLUME

PLAN VIEW
FLUME AT CURB END



SECTION A-A



SECTION B-B

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.

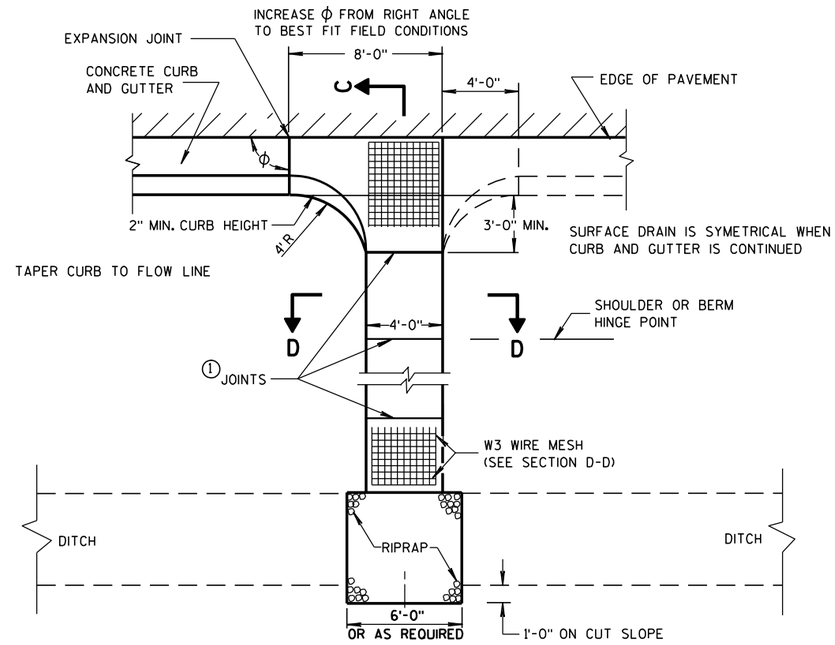
WELDED STEEL WIRE FABRIC SHALL BE IN ACCORDANCE WITH AASHTO SPECIFICATION M55.

① JOINTS SHALL BE $\frac{1}{8}$ TO $\frac{1}{4}$ INCH WIDE BY $1\frac{1}{2}$ INCHES DEEP AND SPACED AT UNIFORM INTERVALS OF APPROXIMATELY 4 FEET.

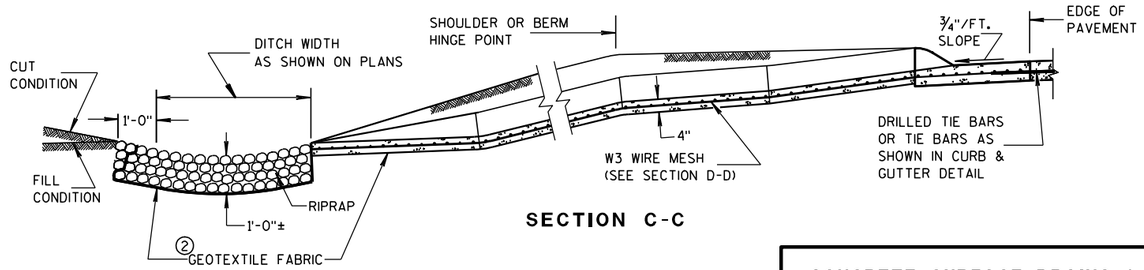
② GEOTEXTILE FABRIC TYPE "R" SHALL UNDERLAY THE FULL LENGTH AND WIDTH OF THE CONCRETE SURFACE DRAIN AND RIPRAP.

③ CONCRETE SURFACE DRAIN WITHOUT CURB AND GUTTER MAY BE USED ON BACKSLOPES WHEN SPECIFIED

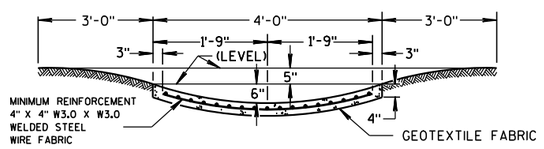
③ CONCRETE SURFACE DRAIN



PLAN VIEW



SECTION C-C



SECTION D-D

CONCRETE SURFACE DRAINS & ASPHALTIC FLUMES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

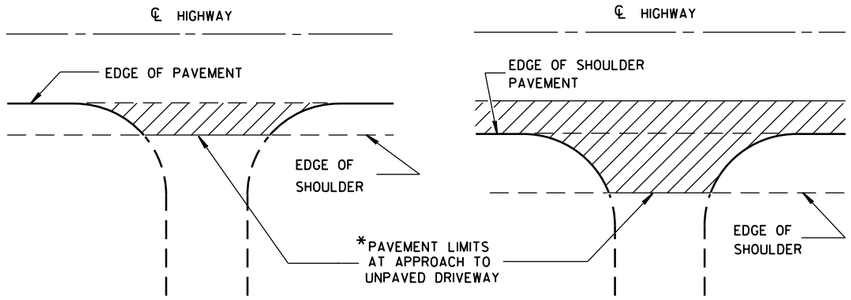
APPROVED
9-4-08 DATE
/S/ Jerry H. Zogg
ROADWAY STANDARDS ENGINEER
MENT
FHWA

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S.D.D. 8 D 4-5

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S.D.D. 8 D 4-5

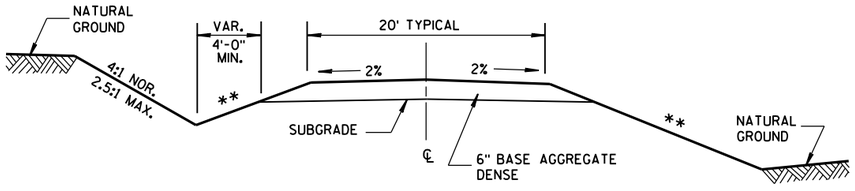


*WHERE DRIVEWAY IS PAVED, APPROACH PAVEMENT SHOULD BE EXTENDED TO MATCH DRIVEWAY PAVEMENT.

PLAN VIEW
(UNPAVED SHOULDER ON HIGHWAY)

PLAN VIEW
(PAVED SHOULDER ON HIGHWAY)

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

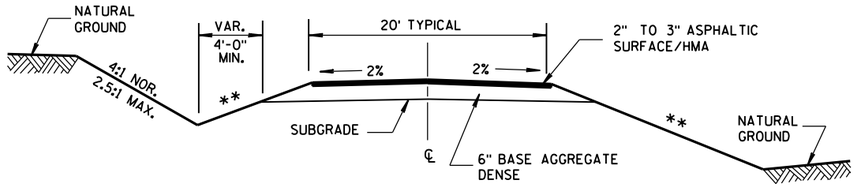


IN CUT **IN FILL**

TYPICAL CROSS SECTION FOR PRIVATE DRIVE OR FIELD ENTRANCE AGGREGATE SURFACE

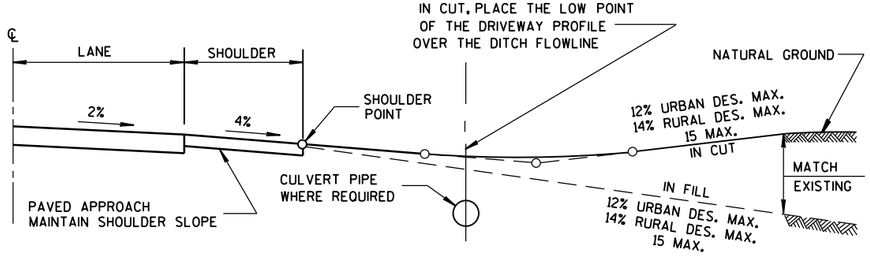
** SLOPE CAN VARY WITH SPEED. SEE 11-45-2.6.2.

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



IN CUT **IN FILL**

TYPICAL CROSS SECTION FOR PRIVATE DRIVE OR FIELD ENTRANCE ASPHALTIC SURFACE



TYPICAL DRIVEWAY PROFILES

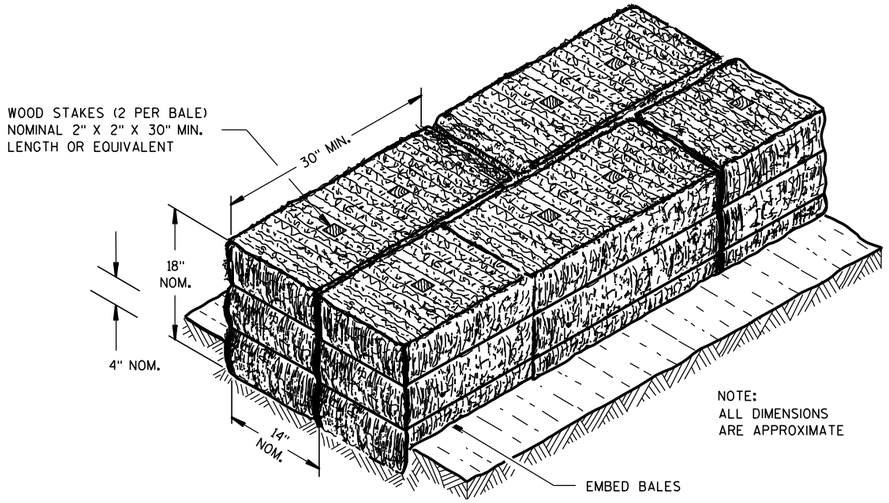
DRIVEWAYS WITHOUT CURB & GUTTER

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

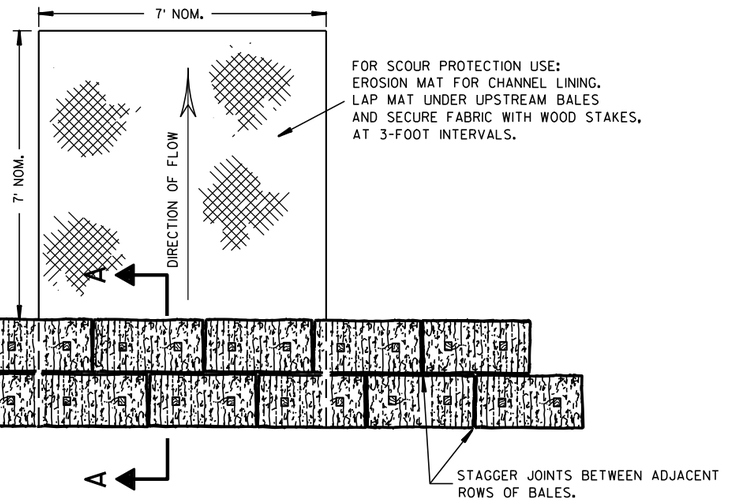
APPROVED
December, 2016 /S/ Rodney Taylor
DATE ROADWAY STANDARDS UNIT SUPERV
FHWA

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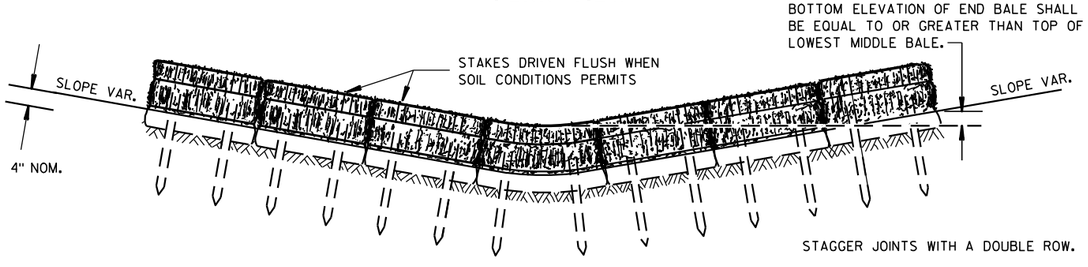
S.D.D. 8 D 21-1



SECTION A-A



PLAN VIEW



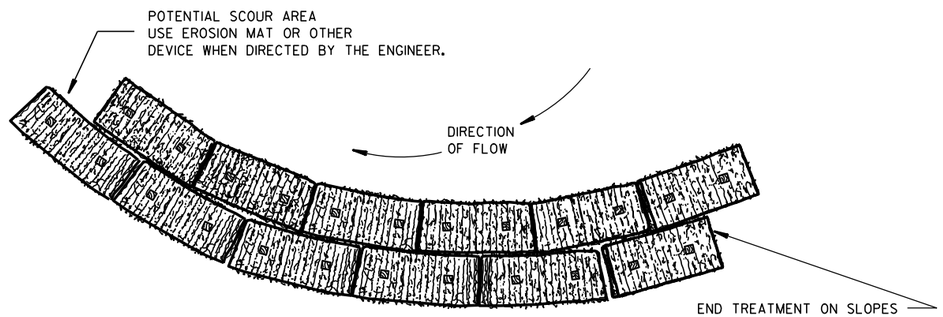
FRONT ELEVATION

TEMPORARY DITCH CHECK USING EROSION BALES ①

GENERAL NOTES

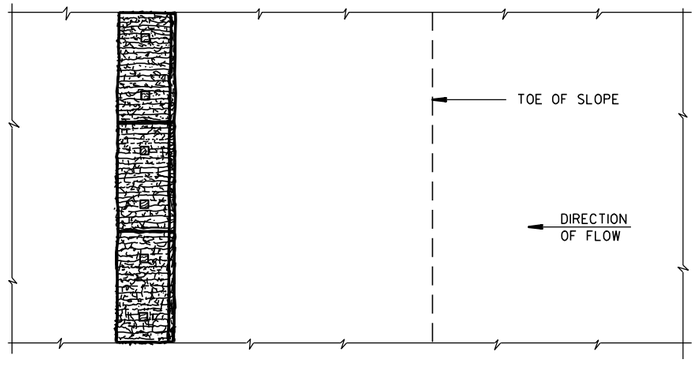
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

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

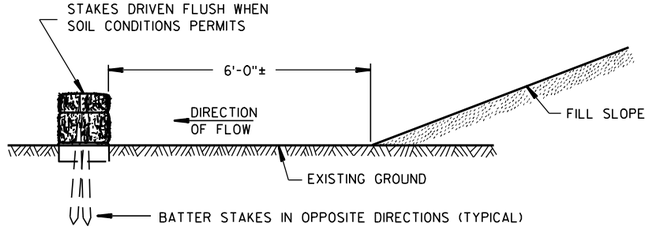


PLAN VIEW

WHEN ALTERING THE DIRECTION OF FLOW



PLAN VIEW



FRONT ELEVATION

WHEN EXISTING GROUND SLOPES AWAY FROM FILL SLOPE

EROSION BALES FOR SHEET FLOW

TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

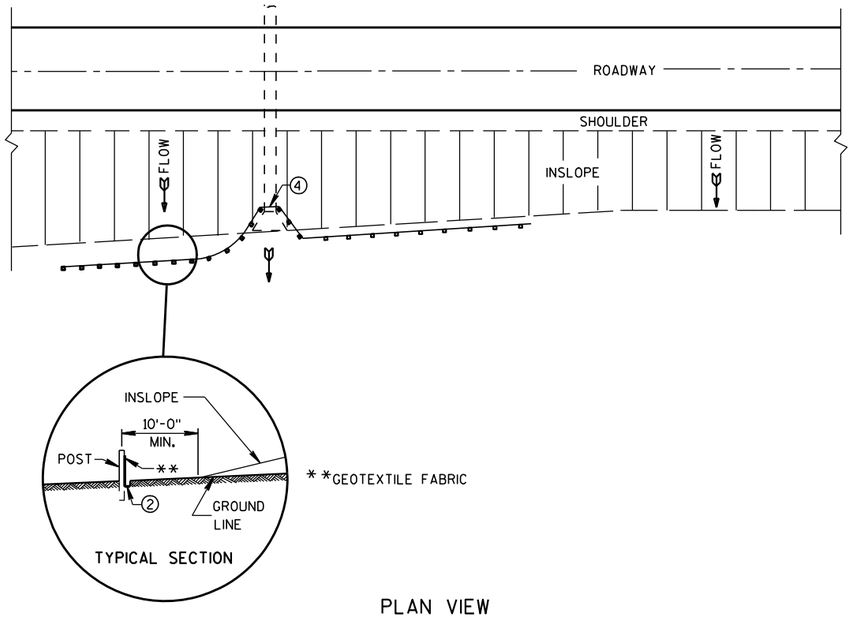
6/04/02 — DATE

/S/ Beth Cannestra — CHIEF ROADWAY DEVELOPMENT ENGINEER

FHWA

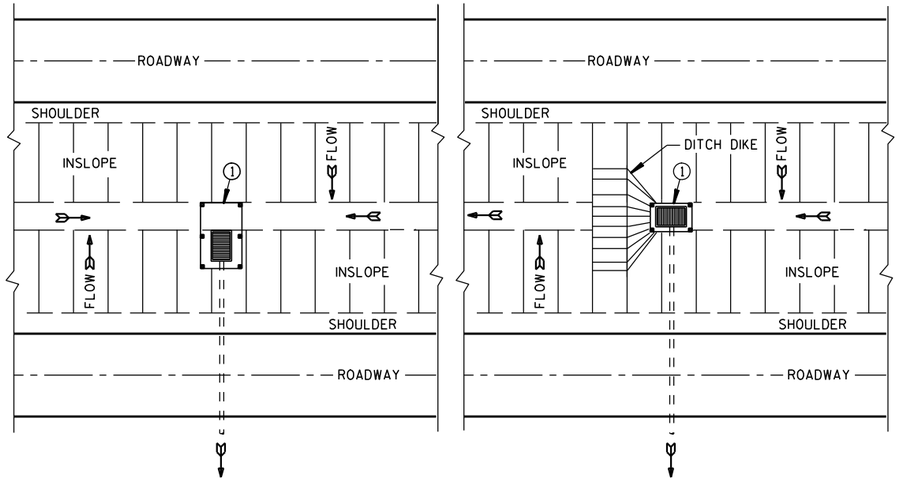
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PLAN VIEW

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.

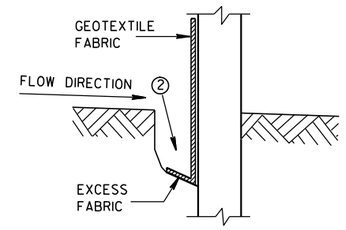
① HORIZONTAL BRACE REQUIRED WITH 2" X 4" WOODEN FRAME OR EQUIVALENT AT TOP OF POSTS.

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.

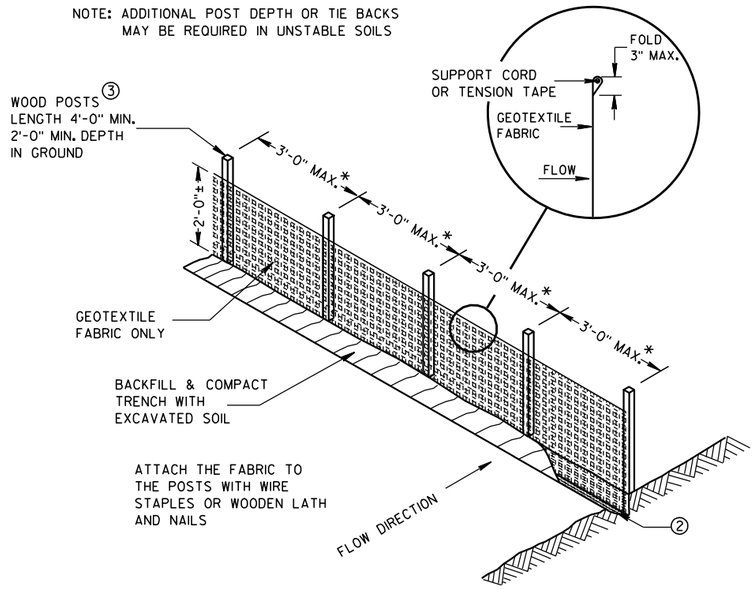
③ WOOD POSTS SHALL BE A MINIMUM SIZE OF 1⅛" X 1⅛" OF OAK OR HICKORY.

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

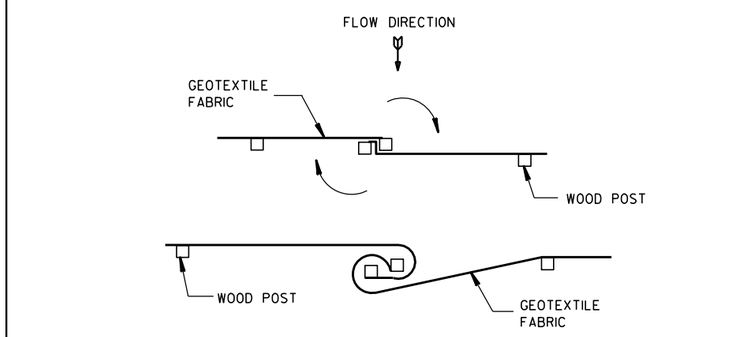
⑤ CONSTRUCT SILT FENCE FROM A CONTINUOUS ROLL IF POSSIBLE BY CUTTING LENGTHS TO AVOID JOINTS. IF A JOINT IS NECESSARY USE ONE OF THE FOLLOWING TWO METHODS; A) OVERLAP THE END POSTS AND TWIST, OR ROTATE, AT LEAST 180 DEGREES, B) HOOK THE END OF EACH SILT FENCE LENGTH.



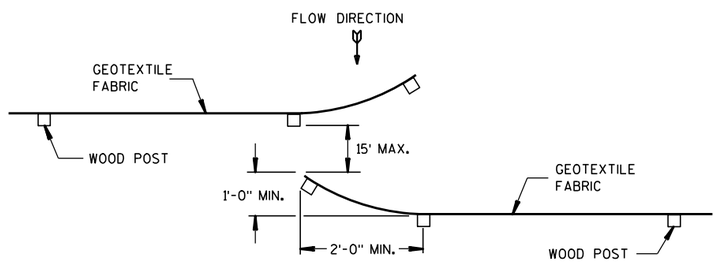
TRENCH DETAIL



SILT FENCE

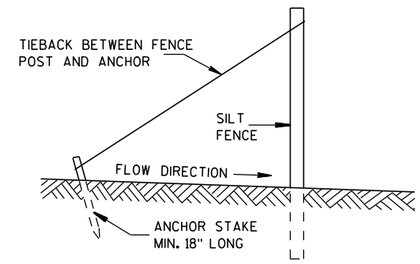


TWIST METHOD



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

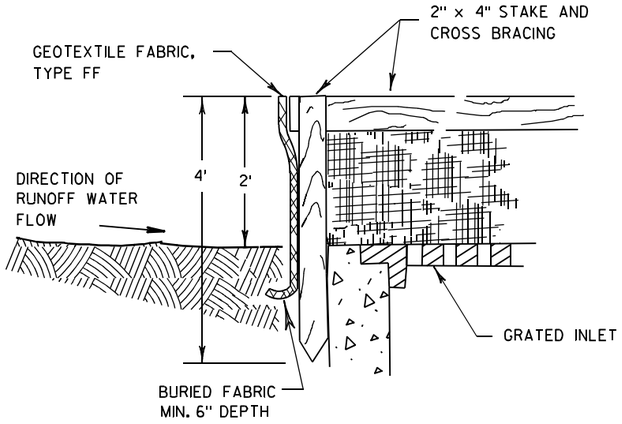
APPROVED
4-29-05 DATE
/S/ Beth Cannestra
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

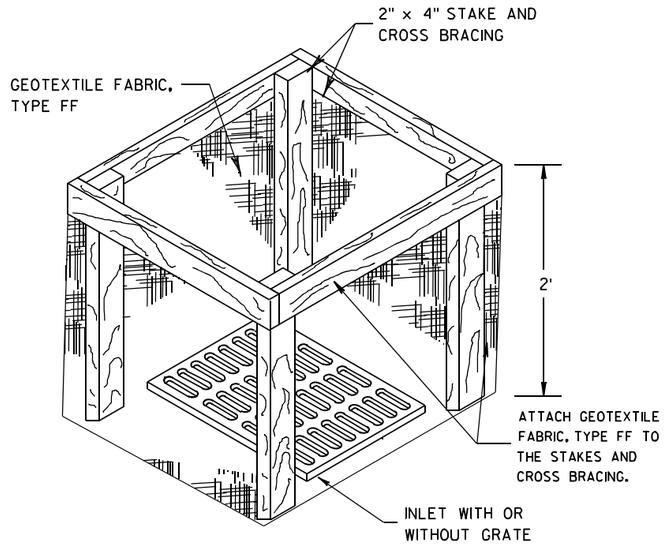
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S.D.D. 8 E 9-6

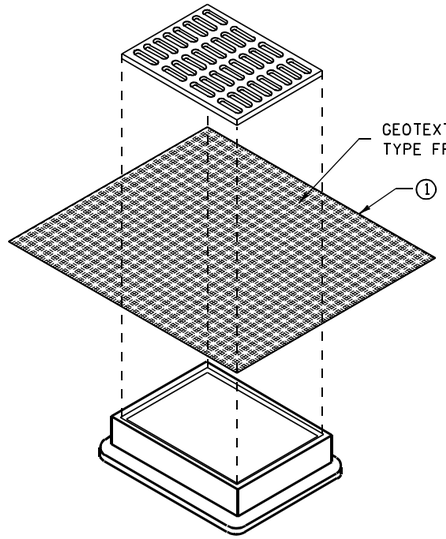
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S.D.D. 8 E 9-6



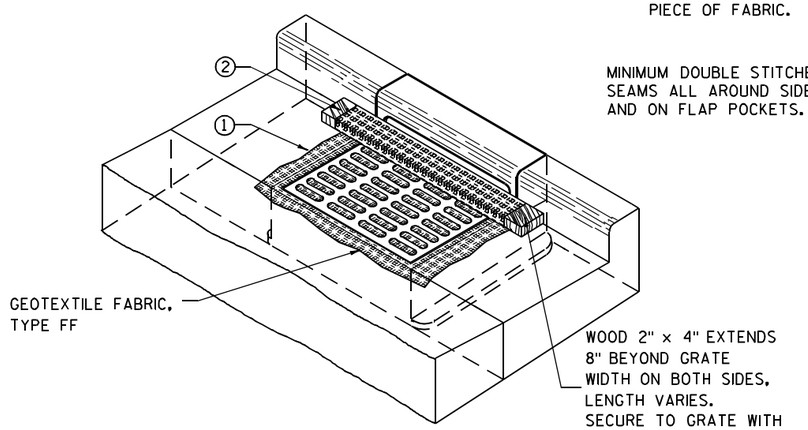


INLET PROTECTION, TYPE A

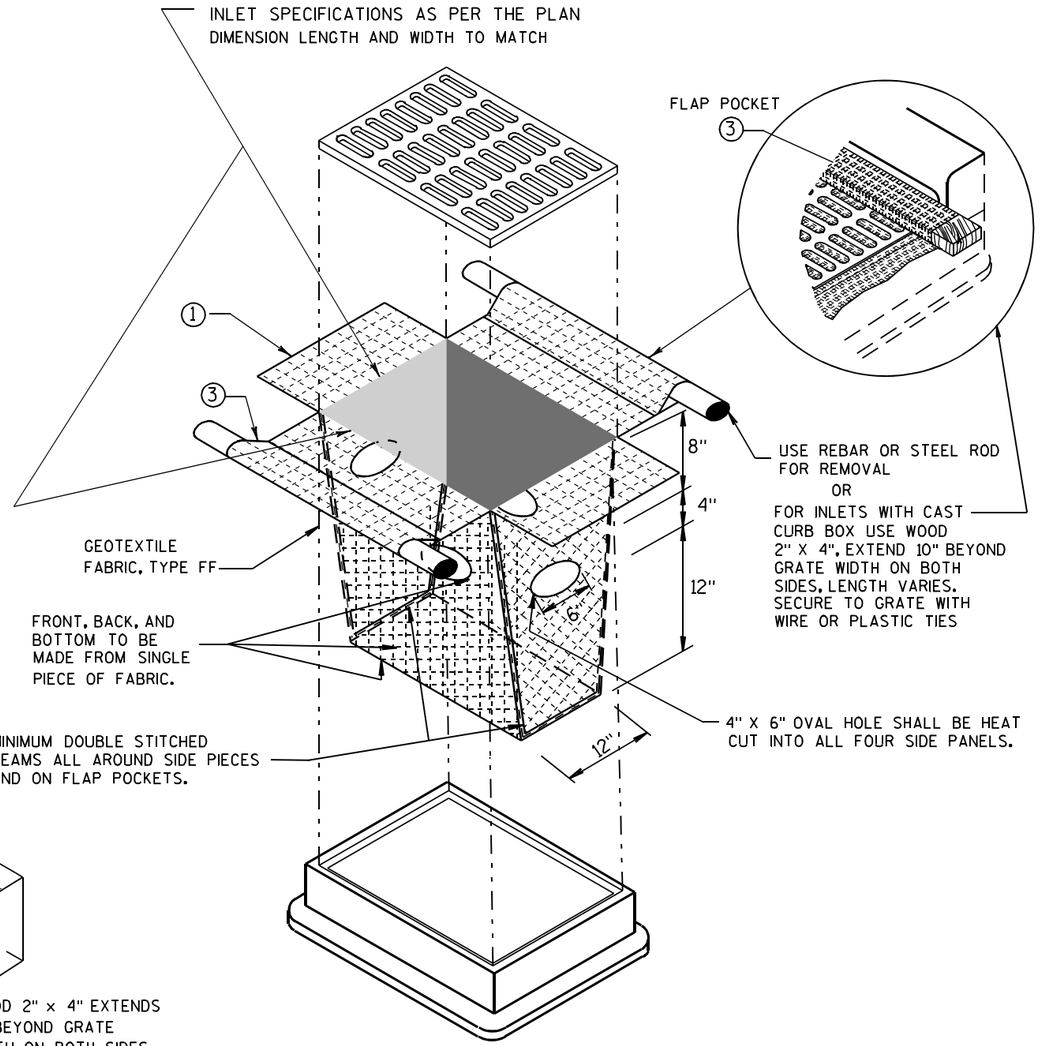


INLET PROTECTION, TYPE B
(WITHOUT CURB BOX)

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



INLET PROTECTION, TYPE C (WITH CURB BOX)



INLET PROTECTION, TYPE D

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

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

6

S.D.D. 8 E 10-2

METAL APRON ENDWALLS

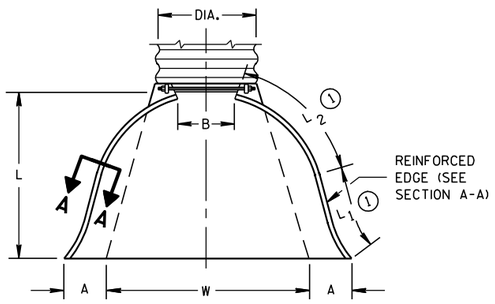
PIPE DIA. (IN.)	MIN. THICK. (Inches) STEEL	MIN. THICK. (Inches) ALUM.	DIMENSIONS (Inches) A (±1")	B (MAX.)	H (±1")	L (±1 1/2")	L1 ①	L2 ①	W (±2")	APPROX. SLOPE	BODY
12	.064	.060	6	6	6	21	12	17 1/2	24	2 1/2 to 1	1 Pc.
15	.064	.060	7	8	6	26	14	21 3/4	30	2 1/2 to 1	1 Pc.
18	.064	.060	8	10	6	31	15	28 1/4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

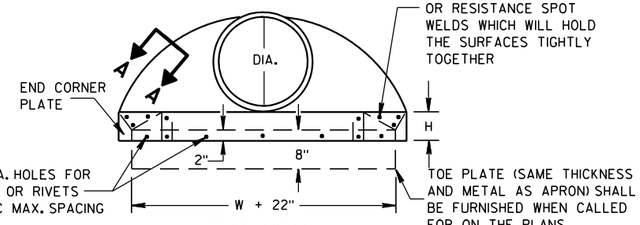
REINFORCED CONCRETE APRON ENDWALLS

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

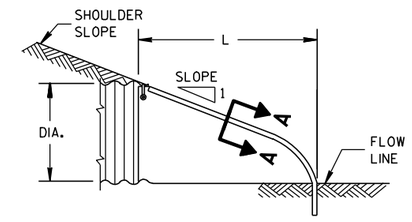
*MINIMUM
**MAXIMUM



PLAN VIEW

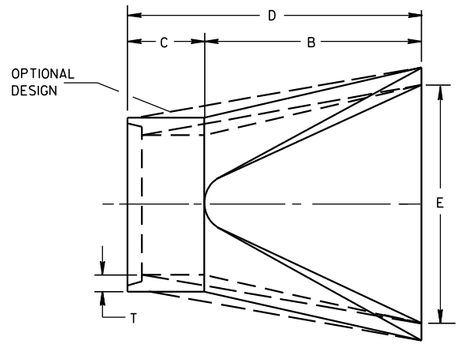


END VIEW

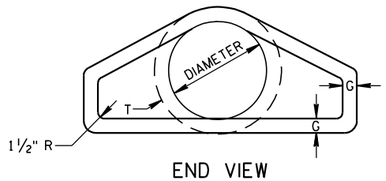


SIDE ELEVATION

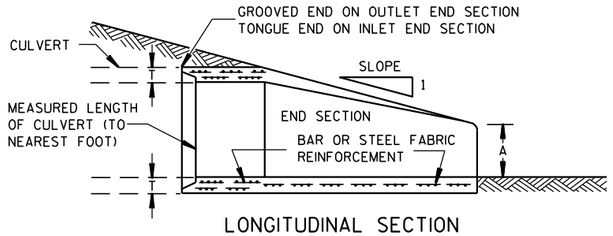
METAL ENDWALLS



PLAN

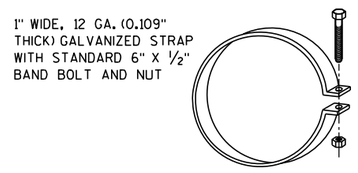


END VIEW



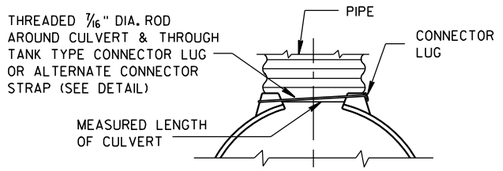
LONGITUDINAL SECTION

CONCRETE ENDWALLS

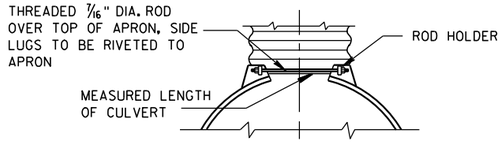


ALTERNATE FOR TYPE 1 CONNECTION

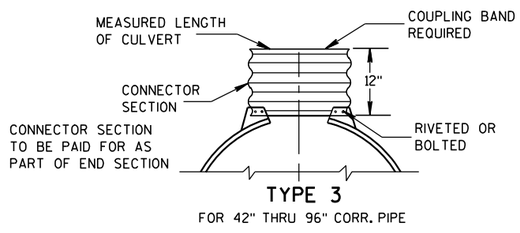
END SECTION CONNECTOR STRAP



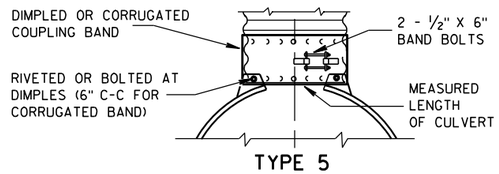
TYPE 1
FOR 12" THRU 24" CORR. PIPE



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

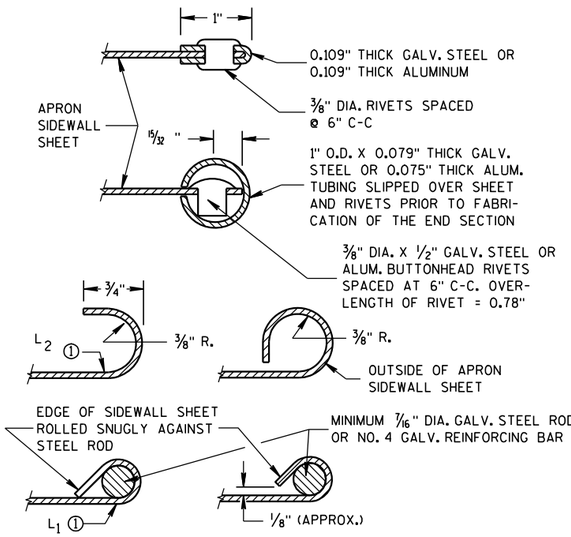
NOTE: DIMPLED BAND FITS OVER OUTSIDE OF ENDWALL. AND CORRUGATED BAND FITS INSIDE ENDWALL. DIMPLED BAND MAY BE USED WITH HELICALLY CORRUGATED PIPE.

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.

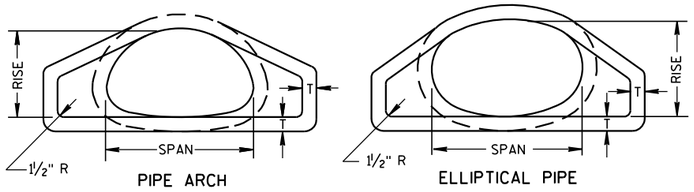
WHERE TWO OR MORE PIPES WITH APRON ENDWALLS ARE LAID ADJACENT TO EACH OTHER, THEY SHALL BE SEPARATED BY A DISTANCE SUFFICIENT TO PROVIDE A MINIMUM CLEARANCE OF 6 INCHES BETWEEN APRON ENDWALLS.

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

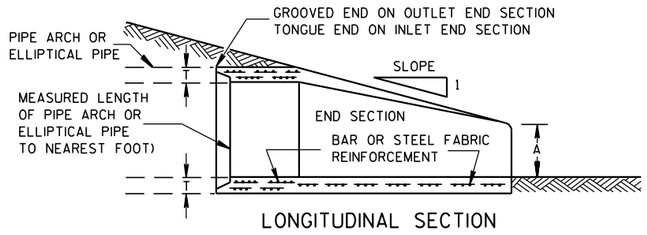
APRON ENDWALLS FOR CULVERT PIPE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

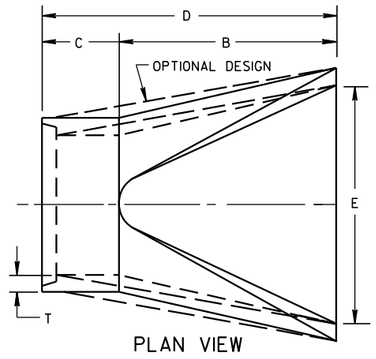
APPROVED
11/30/94 DATE
/S/ Rory L. Rhinesmith
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA



END VIEW

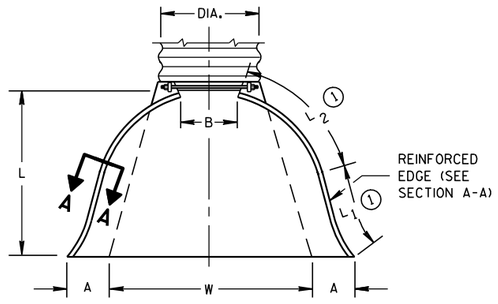


LONGITUDINAL SECTION

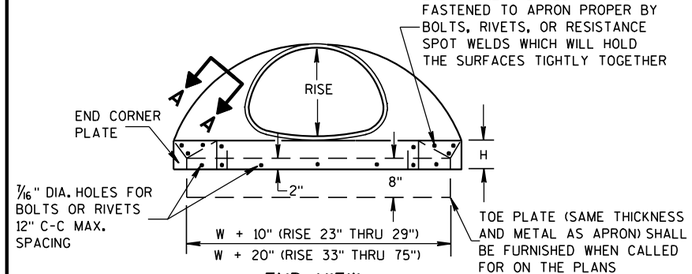


PLAN VIEW

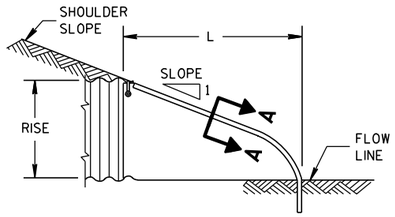
CONCRETE ENDWALLS



PLAN VIEW

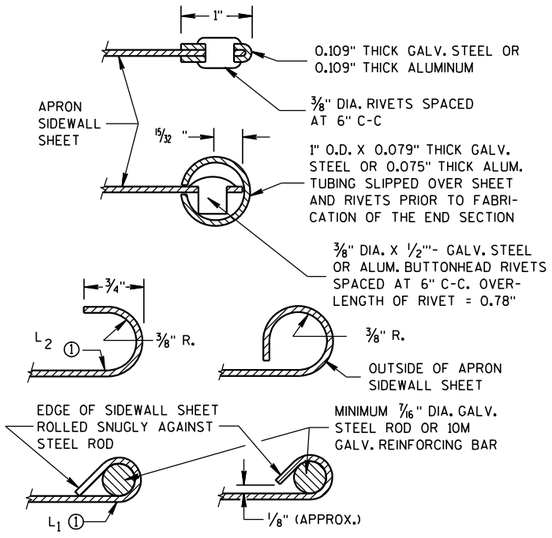


END VIEW



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

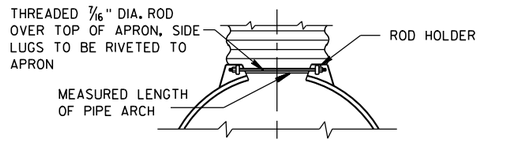
REINFORCED CONCRETE PIPE ARCH

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

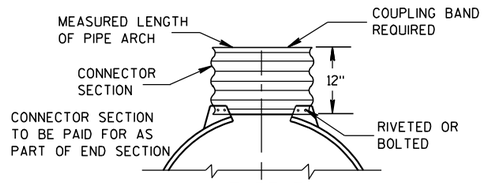
EQUIV. DIA. (Inches)	DIMENSIONS (Inches) ** SPAN	** RISE	T	A	B	C	D	E	APPROX. SLOPE
24	30	19	3¼	8½	39	33	72	48	3 to 1
30	38	24	3¾	9½	54	18	72	60	3 to 1
36	45	29	4½	11⅛	60	24	84	72	2½ to 1
42	53	34	5	15¾	60	36	96	78	2½ to 1
48	60	38	5½	21	60	36	96	84	2½ to 1
54	68	43	6	25½	60	36	96	90	2½ to 1
60	76	48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

**NOMINAL SIZE



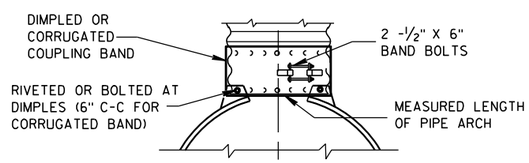
TYPE 2

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

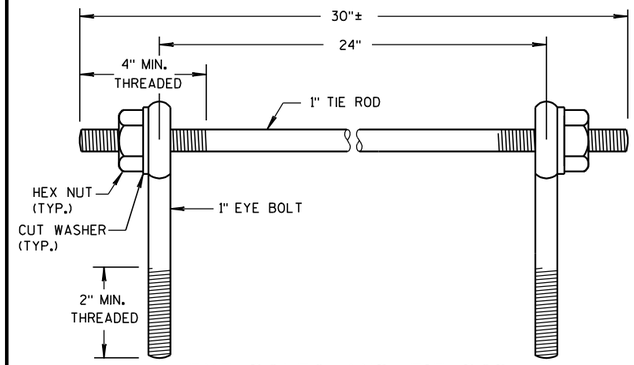
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

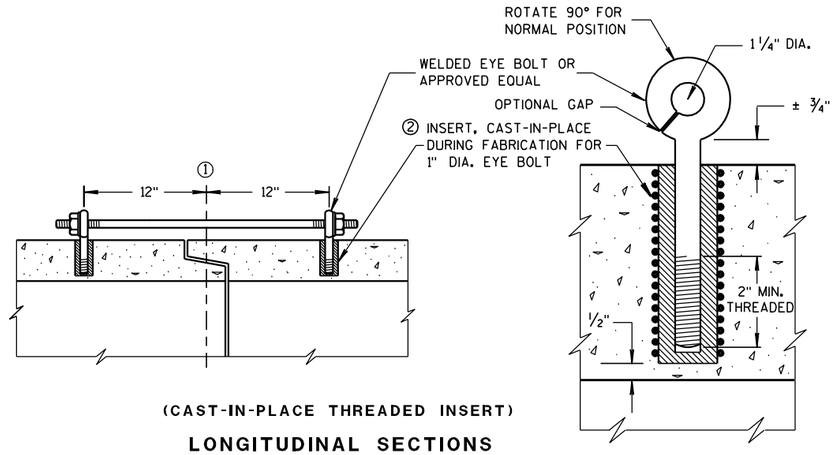
11/30/94 — DATE

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

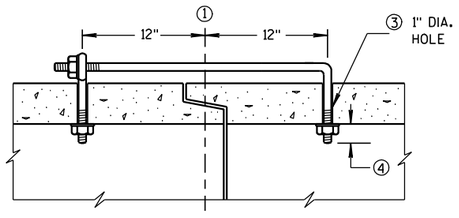
② THE INSIDE OF THE THREADED INSERTS SHALL BE CLEAN TO ALLOW THE INSERTION OF THREADED EYE BOLTS.

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

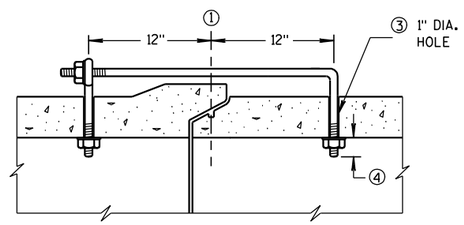
④ BOLT PROJECTION INSIDE OF PIPE SHALL NOT EXCEED 2 INCHES.

⑤ OPENING TO BE ROD DIAMETER PLUS 1 INCH.

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



(TONGUE & GROOVE PIPE)

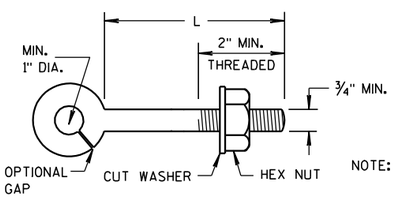


(MODIFIED BELL PIPE)

LONGITUDINAL SECTION

EYE BOLT DIMENSION TABLE

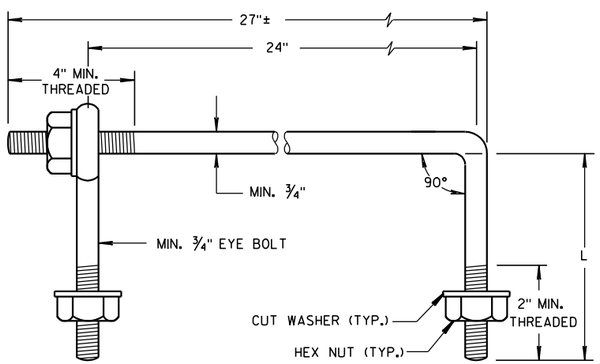
PIPE SIZE	L = LENGTH	
	TONGUE & GROOVE PIPE	MODIFIED BELL PIPE
18" TO 24"	4 1/2"	6 1/4"
30"	5"	7"
36"	5 1/2"	7"
42"	6"	
48"	6 1/2"	
60"	7 1/2"	
66"	8"	



NOTE:

EYE BOLT

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



EYE BOLT AND TIE ROD

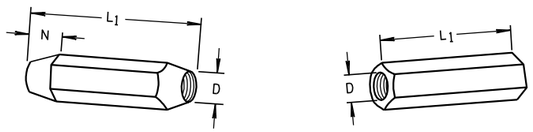
(JOINT TIES FOR 18" TO 66" DIA. CONCRETE PIPE)

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

ADJUSTABLE TIE ROD TABLE

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

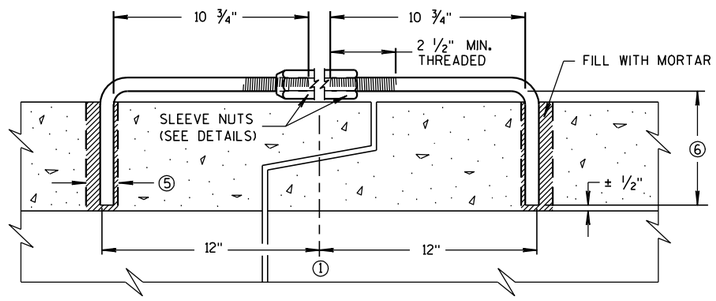
DIMENSIONS SHOWN ARE IN INCHES



TAPERED PLAIN

RIGHT AND LEFT THREADS

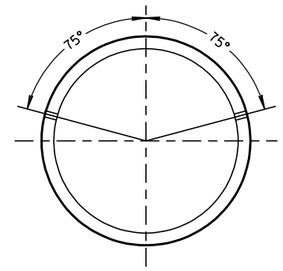
SLEEVE NUTS



LONGITUDINAL SECTION

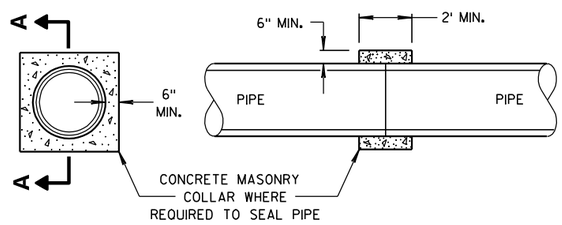
(JOINT TIES FOR 12" TO 108" DIA. CONCRETE PIPE)

ADJUSTABLE TIE ROD (ALTERNATE NO. 3)



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

TRANSVERSE SECTION



SECTION A-A

CONCRETE COLLAR DETAIL

JOINT TIES FOR CONCRETE PIPE AND CONCRETE COLLAR DETAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
6/5/2012 — DATE
/S/ Jerry H. Zogg — ROADWAY STANDARDS ENGINEER
80
FHWA

6

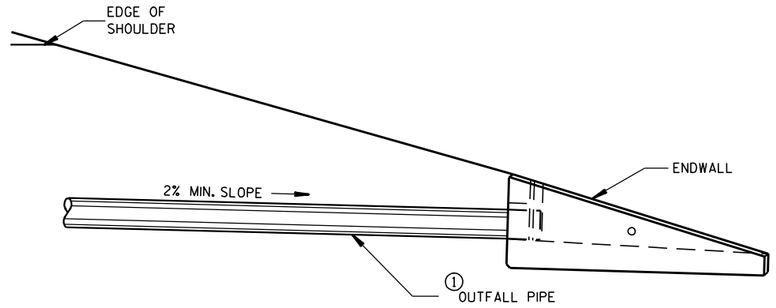
S.D.D. 8 F 4-7

6

S.D.D. 8 F 4-7

DIMENSIONS IN INCHES											
PIPE DIA.	A	B	C	D	E	F	G	H	J	L	Z
**4	6	12	5 1/4	9	8	32	36	11	2 3/8	6 1/2	4
6	8	14	7 1/4	11	10	42	44	13	3 5/8	8 1/2	6

**APRON ENDWALL FOR 6 INCH DIAMETER PIPE MAY BE SUBSTITUTED FOR THIS SIZE PROVIDED THE HOLE IN THE HEADWALL IS SIZED AND LOCATED TO CONFORM TO THE 4 INCH DIAMETER PIPE DIMENSIONS (C & J)



INSTALLATION 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.

ALTERNATIVE DESIGNS WHICH PROVIDE EQUIVALENT CAPACITY AND STRENGTH MAY BE USED WHEN APPROVED BY THE ENGINEER. ENDWALL MAY BE EITHER PRECAST OR CAST-IN-PLACE CONCRETE.

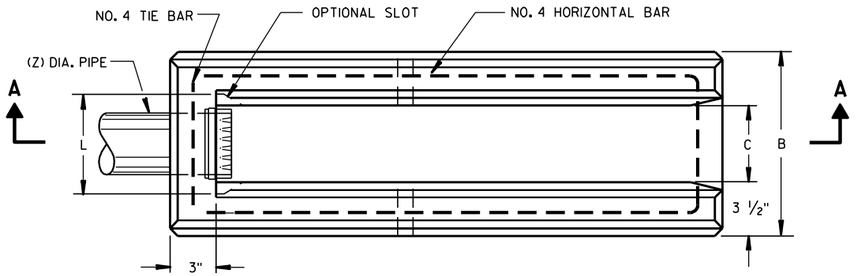
THE UNDERDRAIN PIPE SHALL BE FULLY INSERTED AND SEALED INTO THE ENDWALL WITH CEMENT MORTAR PRIOR TO BACKFILLING AROUND THE STRUCTURE.

THE UPPERMOST POINT OF THE ENDWALL SHALL BE PLACED FLUSH WITH THE ROADWAY SLOPE. ADJACENT EMBANKMENT SLOPES SHALL BE SHAPED TO FIT THE SIDES AND TOE OF THE ENDWALL. EXACT PLACEMENT OF THE OUTFALL PIPE AND ENDWALL SHALL BE DETERMINED BY THE ENGINEER TO MATCH THE ELEVATIONS AND FLOW DIRECTION OF THE ROADSIDE DITCH.

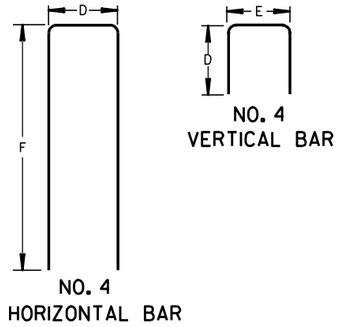
① THE OUTFALL PIPE UNDERDRAIN AND FITTINGS SHALL CONFORM TO THE REQUIREMENTS OF THE SPECIFICATION FOR POLY (VINYL CHORIDE) (PVC) PLASTIC DRAIN, WASTE AND VENT PIPE AND FITTINGS, ASTM DESIGNATION: D 2665, SCHEDULE 40 PVC OR THE STANDARD SPECIFICATION FOR TYPE PSM POLY (VINYL CHORIDE) (PVC) SEWER PIPE AND FITTINGS, ASTM DESIGNATION: D 3034, TYPE PSM SDR 23.5 PVC SEWER PIPE, ALL JOINTS SHALL BE SOLVENT WELDED.

THE OUTFALL PIPE INCLUDING ALL FITTINGS AND THE RODENT SHIELD SHALL BE MEASURED AND PAID FOR AS PIPE UNDERDRAIN UNPERFORATED.

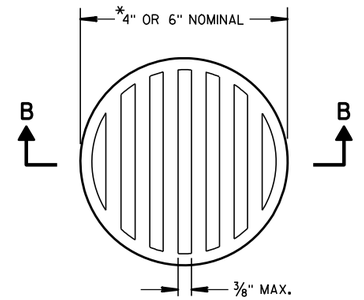
② THE RODENT SHIELD SHALL BE A PVC GRATE SIMILAR TO THIS DETAIL. THE GRATE IS COMMERCIALLY AVAILABLE AS A FLOOR STRAINER. A PIPE COUPLING IS REQUIRED FOR THE ATTACHMENT OF THIS SHIELD TO THE OUTFALL PIPE. THE SHIELD SHALL BE FASTENED TO THE PIPE COUPLING WITH TWO OR MORE NO. 10 X 1-INCH STAINLESS STEEL SHEET METAL SCREWS.



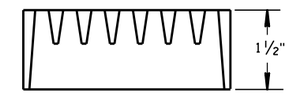
PLAN VIEW



BAR STEEL REINFORCEMENT DETAILS



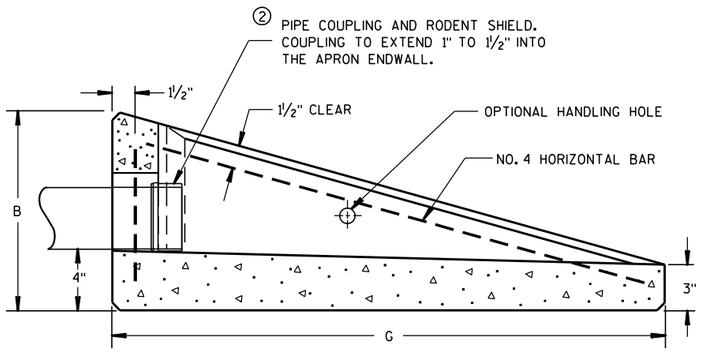
NOTE: ORIENT SHIELD SO SLOTS ARE VERTICAL.



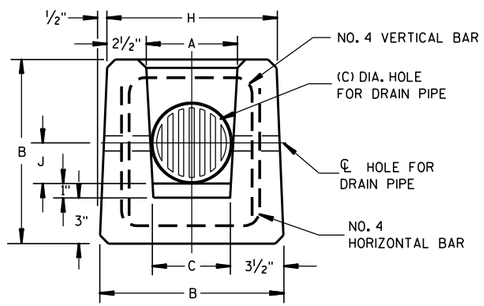
SECTION B-B

② RODENT SHIELD

*NOTE: DIMENSIONS ARE APPROXIMATE. THE GRATE IS SIZED TO FIT INTO A PIPE COUPLING.



SECTION A-A



END VIEW

CONCRETE APRON ENDWALL FOR UNDERDRAIN

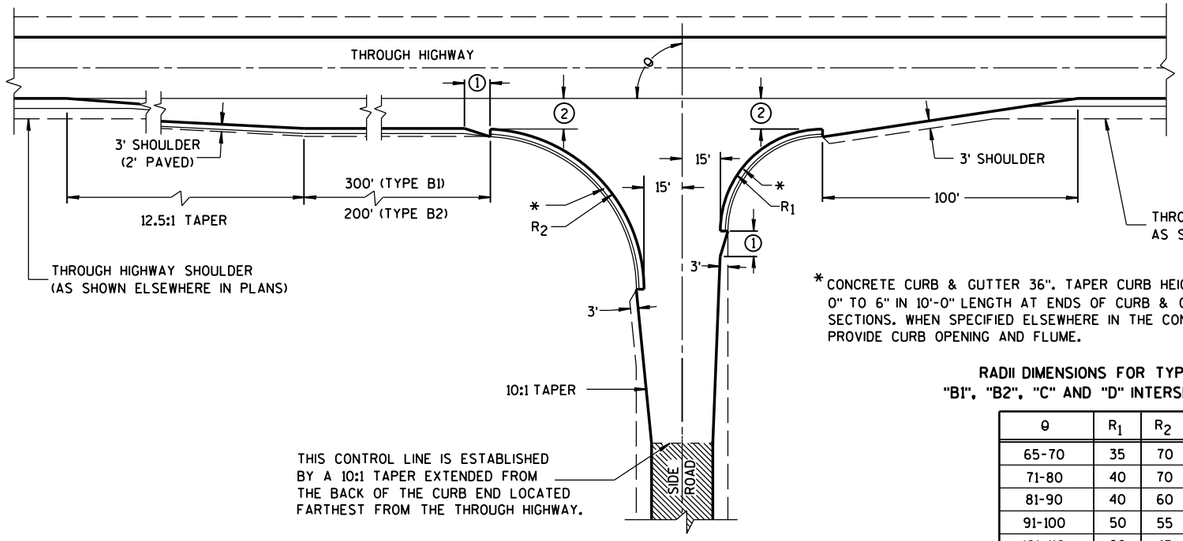
REINFORCED CONCRETE APRON ENDWALL FOR PIPE UNDERDRAIN

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
3/10/98 DATE
/S/ Rory L. Rhinesmith
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

6

S.D.D. 8 F 6-4

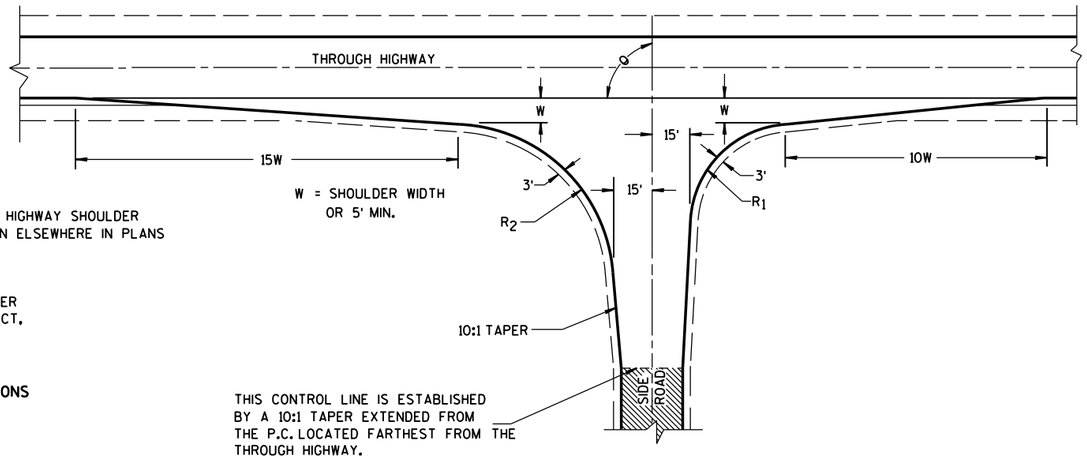


TYPE "B1" AND "B2"

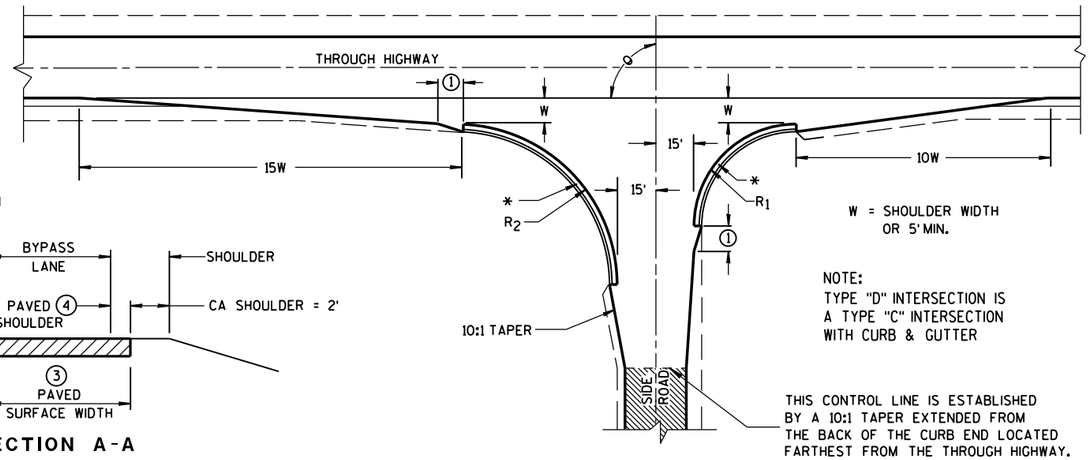
*CONCRETE CURB & GUTTER 36". TAPER CURB HEIGHT 0" TO 6" IN 10'-0" LENGTH AT ENDS OF CURB & GUTTER SECTIONS. WHEN SPECIFIED ELSEWHERE IN THE CONTRACT, PROVIDE CURB OPENING AND FLUME.

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

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



TYPE "C"



TYPE "D"

GENERAL NOTES

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

SIDE ROAD SURFACING NOTE

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

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

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

EXISTING PAVED SURFACE

BYPASS LANE

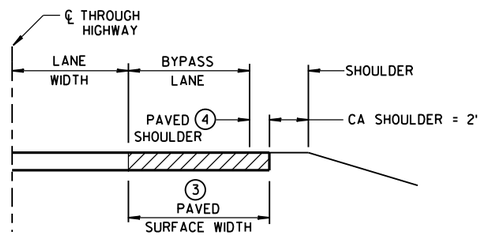
(1) 10-FT TYPICAL.

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

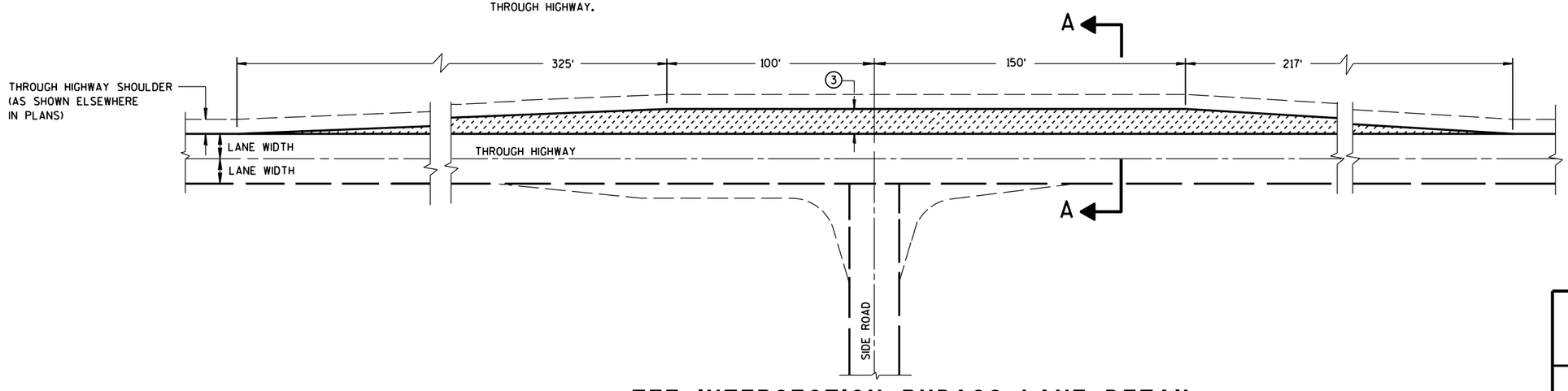
**10-FT MAY BE USED ON TYPE B2 ON RESURFACING PROJECTS IF SPECIFIED IN THE CONTRACT.

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

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



SECTION A-A
(SHOWING BYPASS LANE AND SHOULDER)



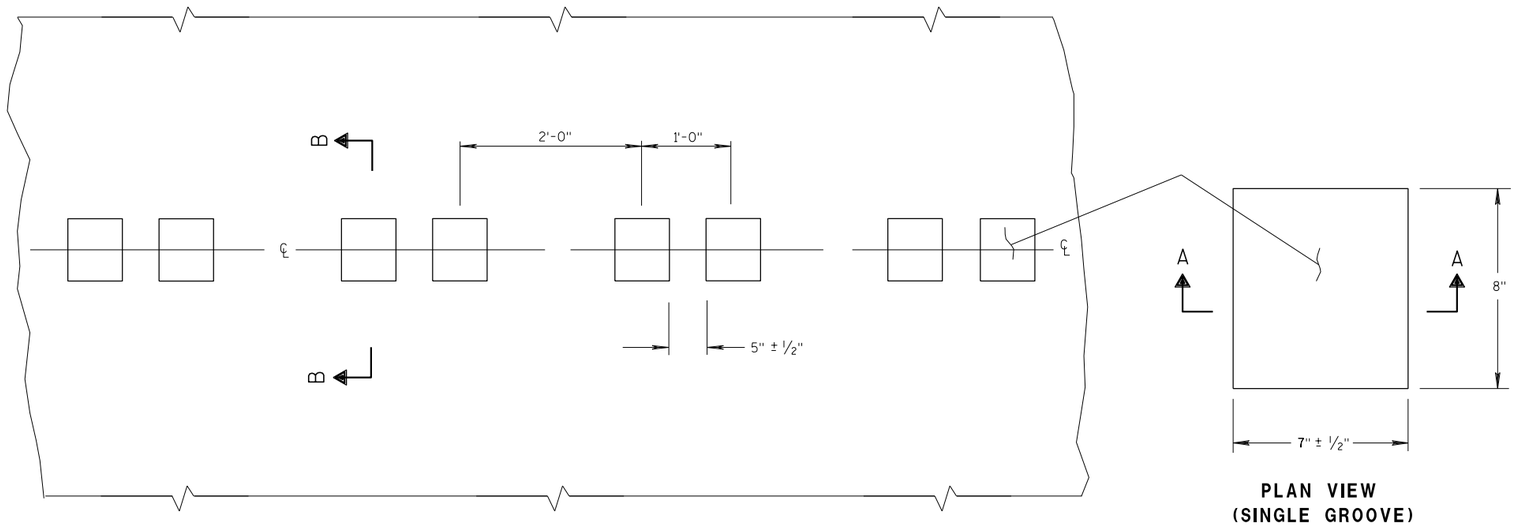
TEE INTERSECTION BYPASS LANE DETAIL

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

STATE OF WISCONSIN
DEPARTMENT OF TRANSPO

6

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



PLAN VIEW
CENTER LINE WITH GROOVES

PLAN VIEW
(SINGLE GROOVE)

PLACEMENT DETAIL FOR MILLED RUMBLE STRIP

GENERAL NOTES

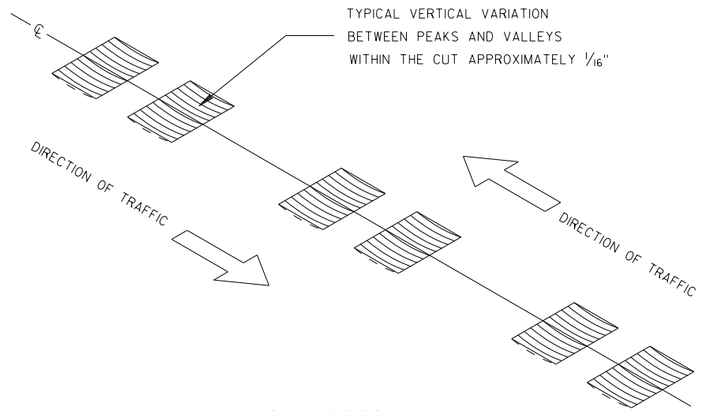
DETAILS OF CONSTRUCTION SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

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

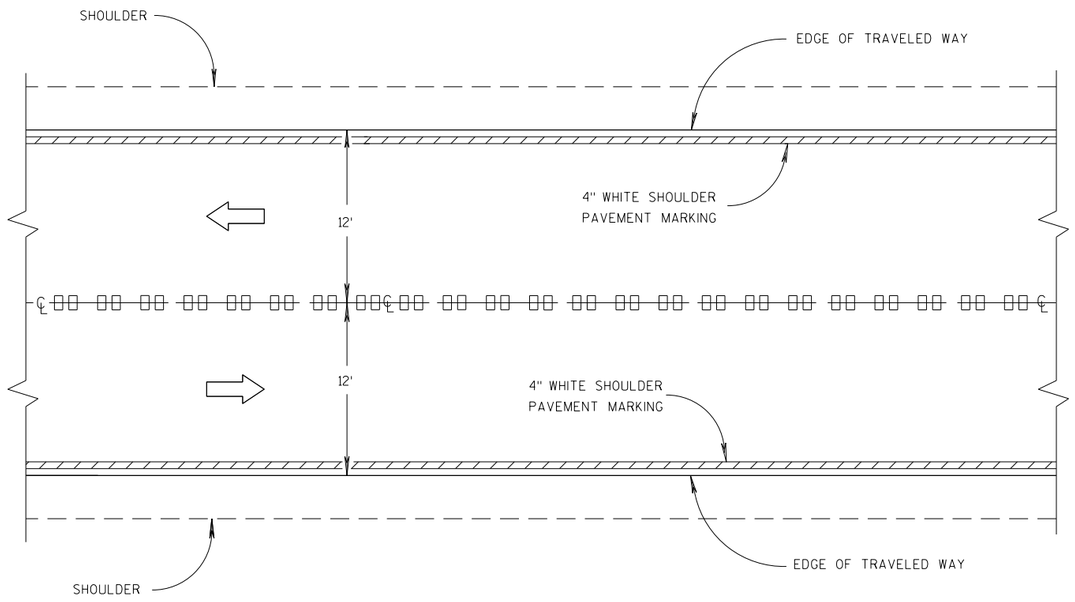
INSTALL PERMANENT MARKING EPOXY 4-INCH AFTER THE GROOVES ARE INSTALLED.

SEE SIGNING PLAN FOR SIGN REQUIREMENTS THAT MAY BE NEEDED.

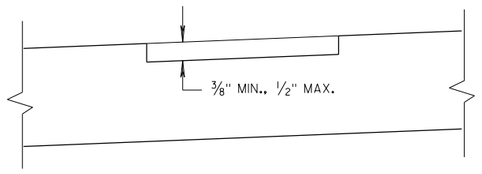
(1) CENTERLINE GROOVES MAY BE OMITTED IN AREAS WITH HIGH CONCENTRATIONS OF DRIVEWAYS, WHEN DIRECTED BY THE ENGINEER.



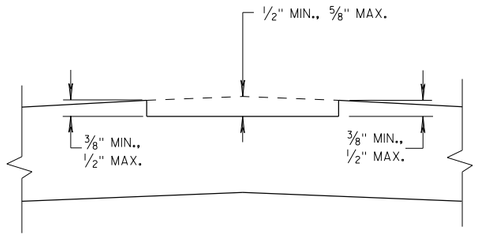
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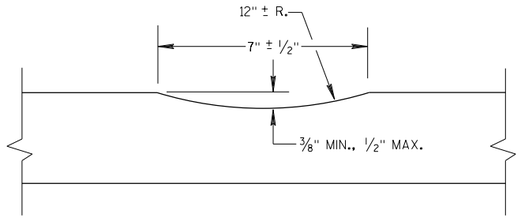
CENTER LINE GROOVES ON TWO-WAY ROADWAYS



SECTION B-B
SUPERELEVATED ROADWAY



SECTION B-B
CROWNED ROADWAY

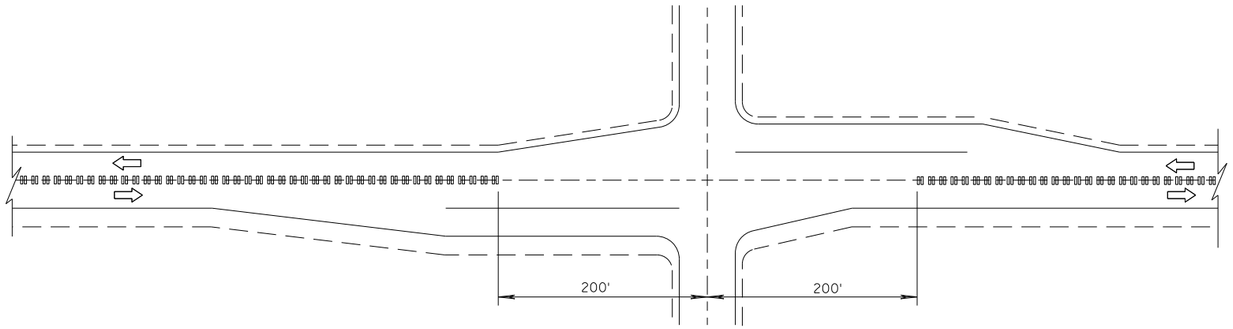


SECTION A-A

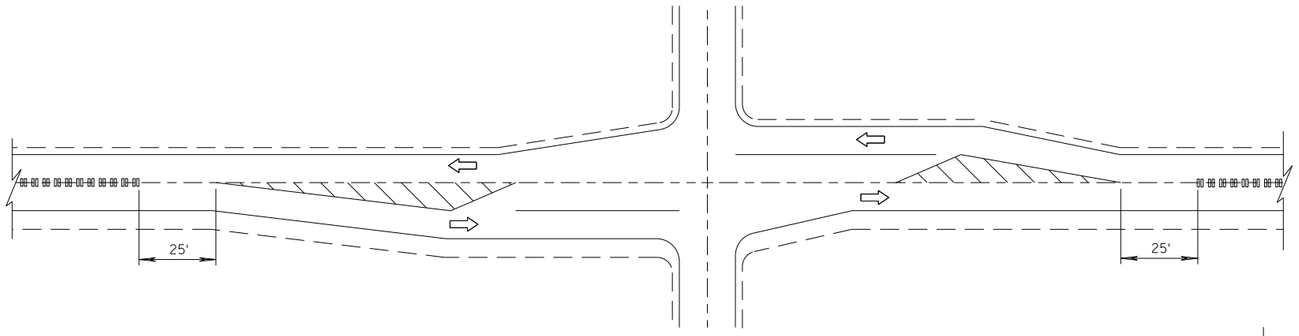
2-LANE RURAL
CENTER LINE RUMBLE STRIP, MILLING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

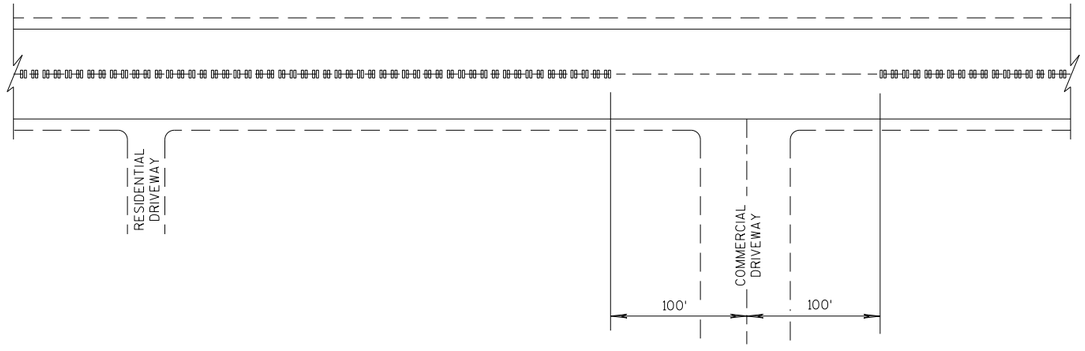
6
S.D.D. 13 A 11-3a



CENTER LINE GROOVES AT INTERSECTIONS

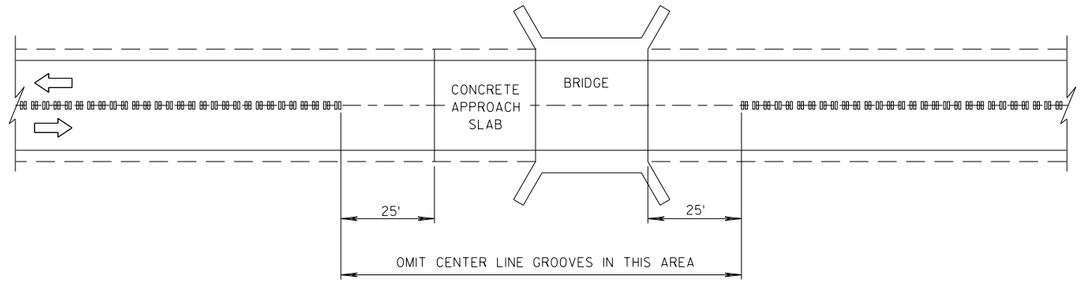


CENTER LINE GROOVES AT INTERSECTIONS
(WITH LEFT TURN LANES)

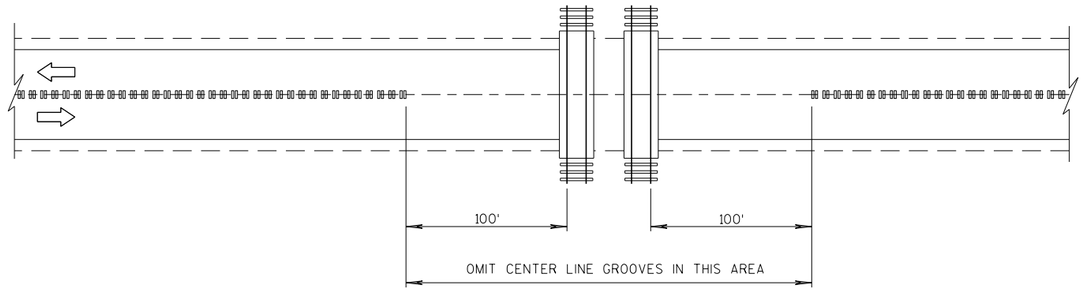


CENTER LINE GROOVES AT DRIVEWAYS (1)

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



CENTER LINE GROOVES AT BRIDGES



CENTER LINE GROOVES AT RAILROADS

6

S.D.D. 13 A 11-3b

2-LANE RURAL
CENTER LINE RUMBLE STRIP, MILLING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

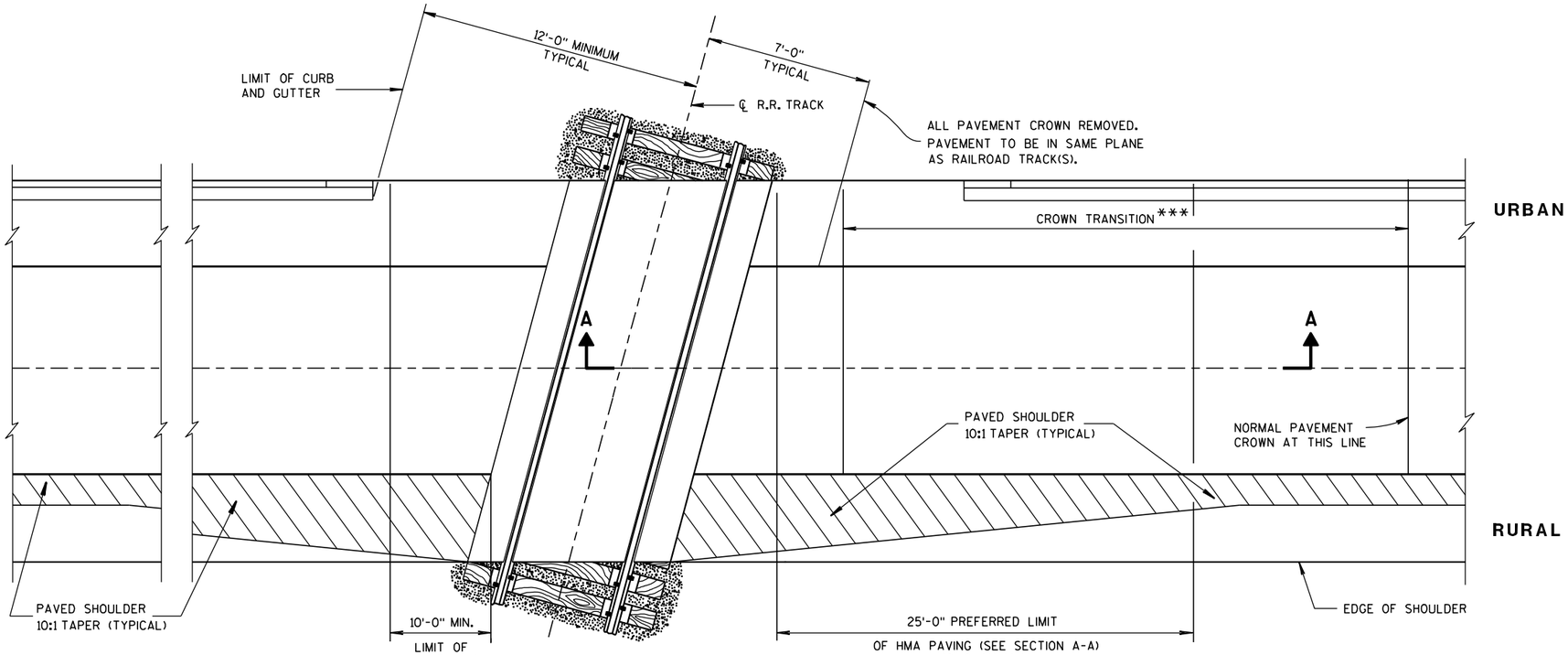
7/2018
DATE

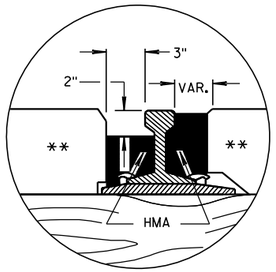
/S/ Rodney T
ROADWAY STANDARDS DE IT
UNIT SUPERVISOR

FHWA

6

S.D.D. 13 A 11-3b





DETAIL B

HMA FLANGEWAY AND FIELD FILLERS

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.

TIMBER, CONCRETE OR RUBBER CROSSING SURFACE MATERIAL, RAILS, TIES, BALLAST, GEOTEXTILE FABRIC AND CROSSING DRAINAGE SYSTEM BY OTHERS UNLESS OTHERWISE PROVIDED.

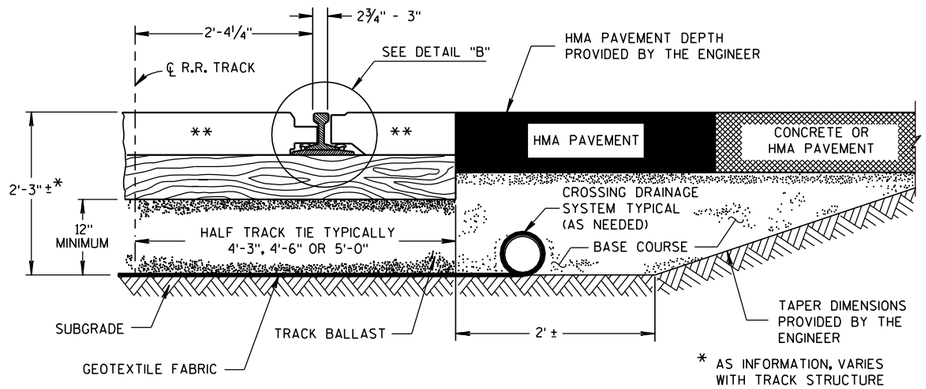
HMA PAVEMENT APPROACHES AND HMA PAVEMET CROSSING SURFACES TO BE PLACED BY CONTRACTOR UNLESS OTHERWISE PROVIDED.

HMA FLANGEWAY AND FIELD FILLERS TO BE PLACED AND THOROUGHLY HAND COMPACTED BY THE CONTRACTOR WHEN NOT PROVIDED BY OTHERS. SEE DETAIL B. HMA FILLERS NOT REQUIRED WHEN RUBBER FILLERS ARE PROVIDED.

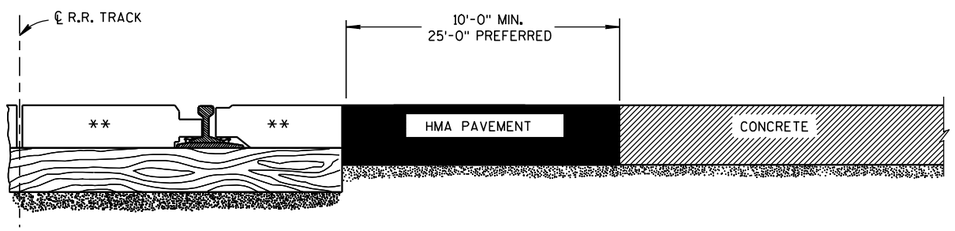
HMA PAVEMENT SHALL BE ROLLED PARALLEL TO THE TRACK.

** CROSSING SURFACE MAY BE TIMBER, RUBBER, CONCRETE, HMA PAVEMENT OR A COMBINATION OF SUCH MATERIALS.

*** CROWN TRANSITION LENGTH SHOWN ELSEWHERE IN THE PLAN.



TYPICAL HALF SECTION



SECTION A-A

CONCRETE PAVEMENT APPROACH



SECTION A-A

HMA PAVEMENT APPROACH

EXAMPLES OF PAVEMENT APPROACHES

PAVEMENT DETAILS FOR RAILROAD APPROACH

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

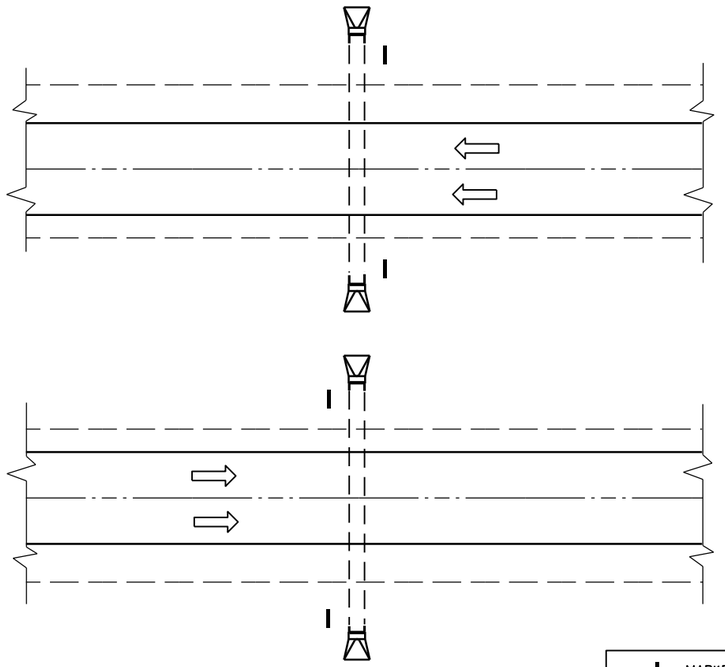
APPROVED
8-28-09 DATE
/S/ Ronald E. Adams
CHIEF, RAILROADS & HAI 85 CTION
FHWA

6

S.D.D. 13 B 1-10

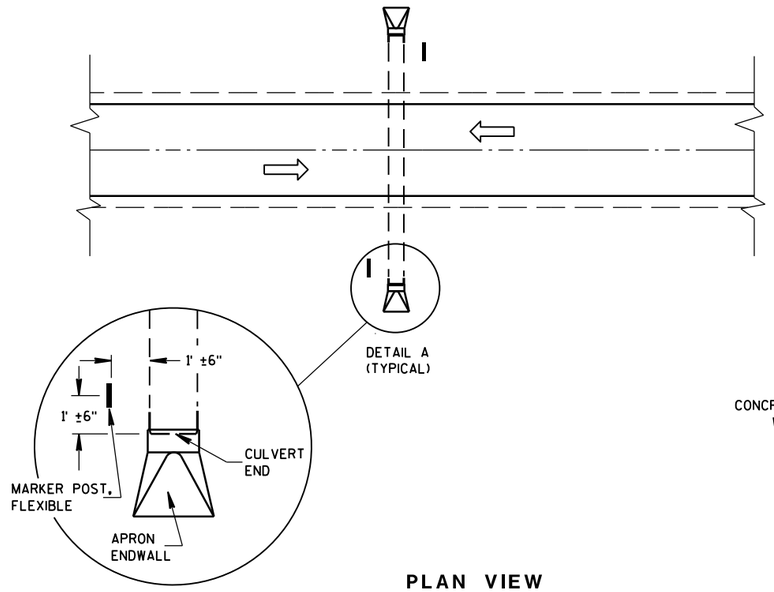
6

S.D.D. 13 B 1-10



PLAN VIEW

DIVIDED HIGHWAY



DETAIL A
(TYPICAL)

PLAN VIEW

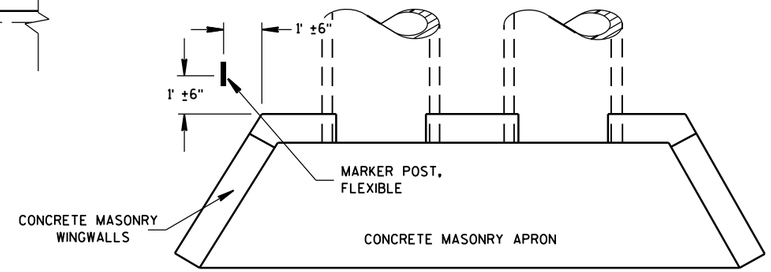
UNDIVIDED HIGHWAY

MARKER POST, FLEXIBLE

DIRECTION OF TRAFFIC FLOW

GENERAL NOTES

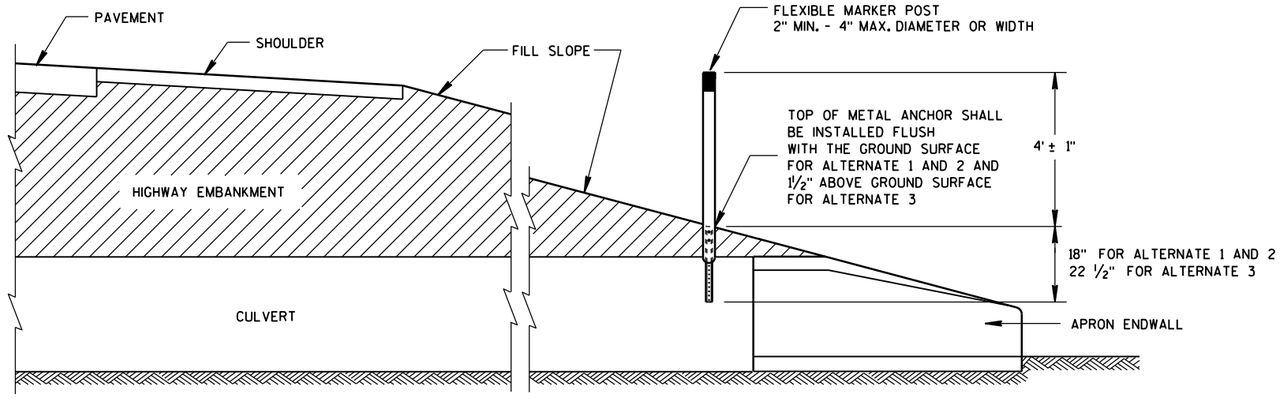
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.



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

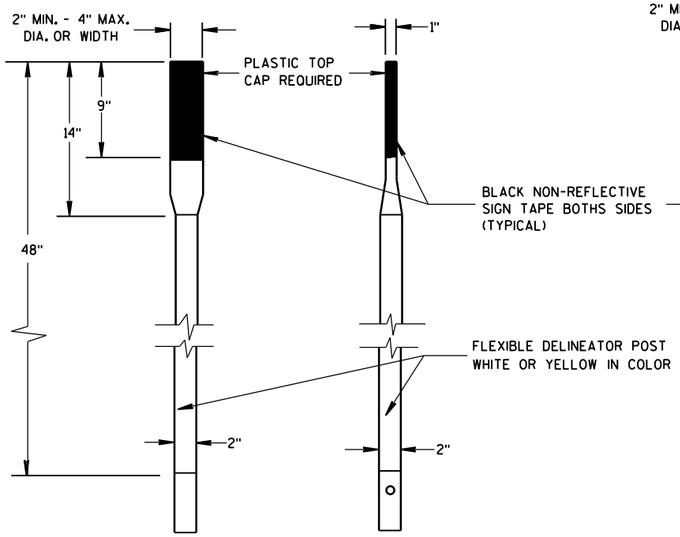
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

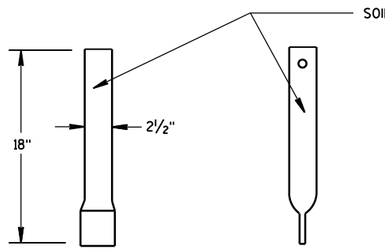
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S.D.D. 15 A 3-2a

6

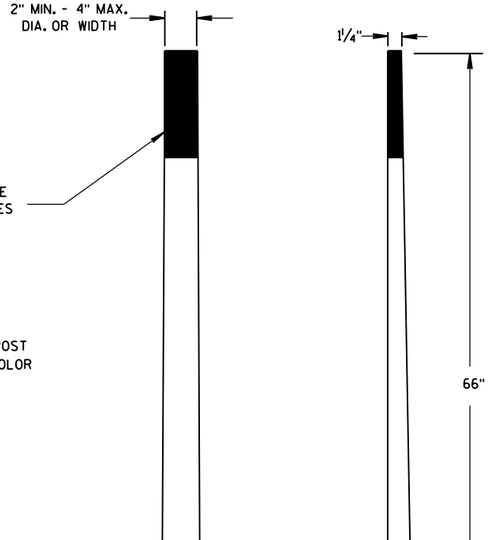
S.D.D. 15 A 3-2a





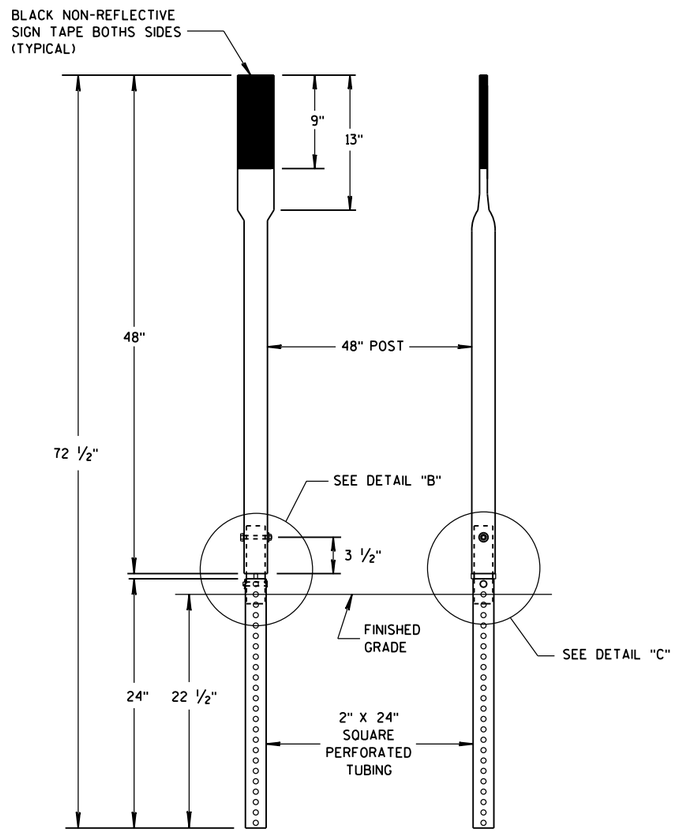
FRONT VIEW SIDE VIEW

ALTERNATE 1



FRONT VIEW SIDE VIEW

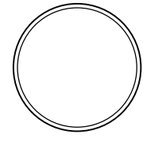
ALTERNATE 2



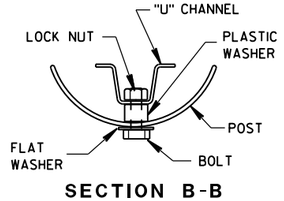
FRONT VIEW SIDE VIEW

ALTERNATE 3

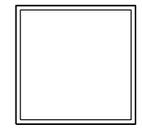
FLEXIBLE MARKER POSTS



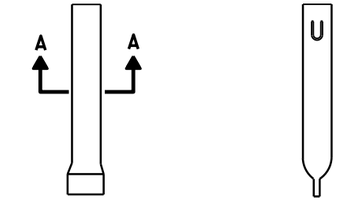
SECTION A-A



SECTION B-B

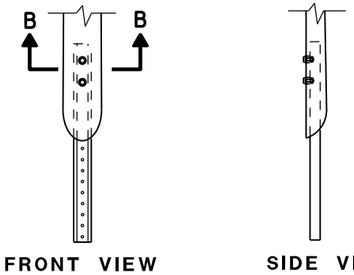


SECTION C-C



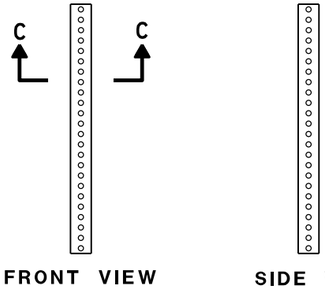
FRONT VIEW SIDE VIEW

ALTERNATE 1



FRONT VIEW SIDE VIEW

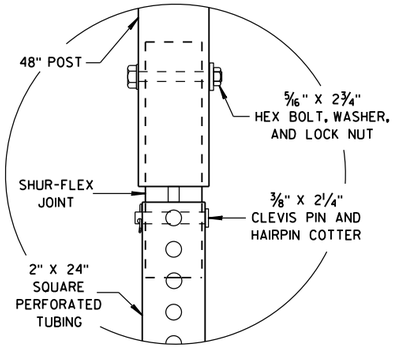
ALTERNATE 2



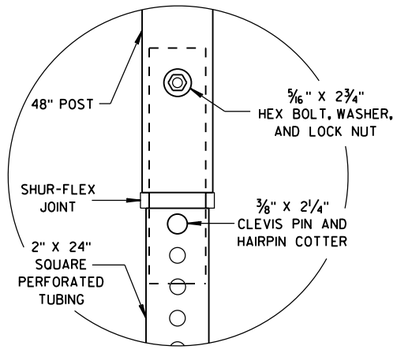
FRONT VIEW SIDE VIEW

ALTERNATE 3

FLEXIBLE MARKER POST ANCHORS



DETAIL B



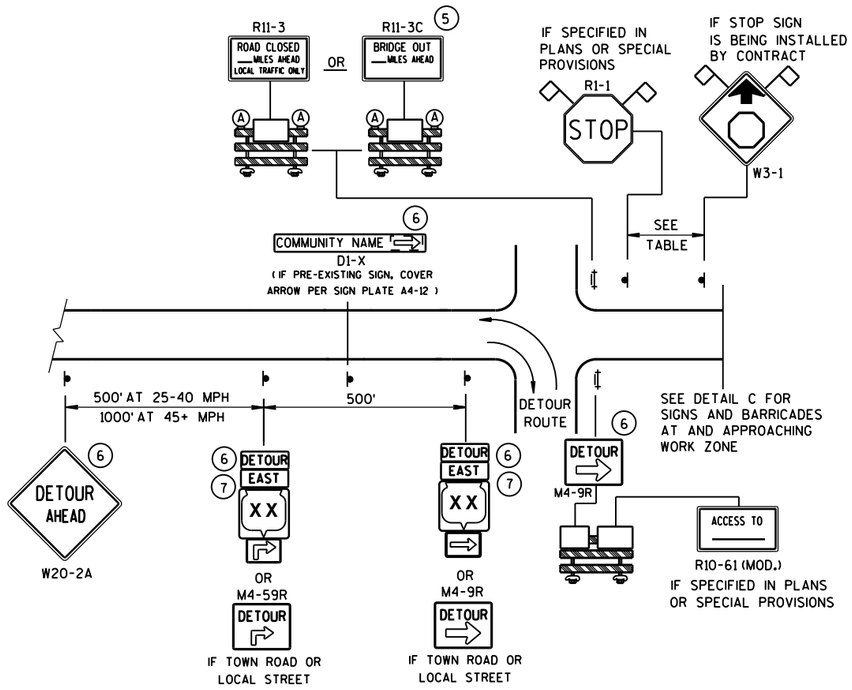
DETAIL C

FLEXIBLE MARKER POST
FOR CULVERT END

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

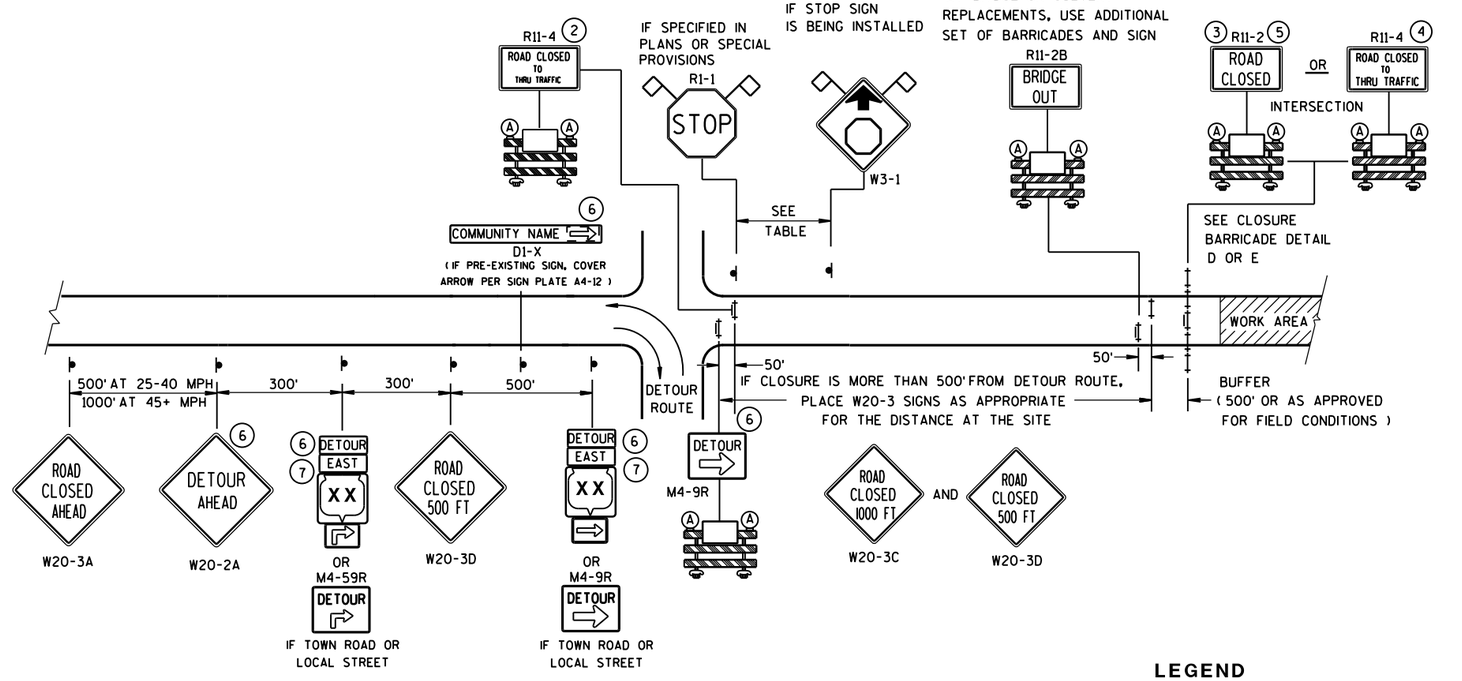
APPROVED
10/1/2012
DATE
/S/ Travis Feltes
STATE TRAFFIC ENGINEER
IGN
FHWA

6
S.D.D. 15 A 3-2b



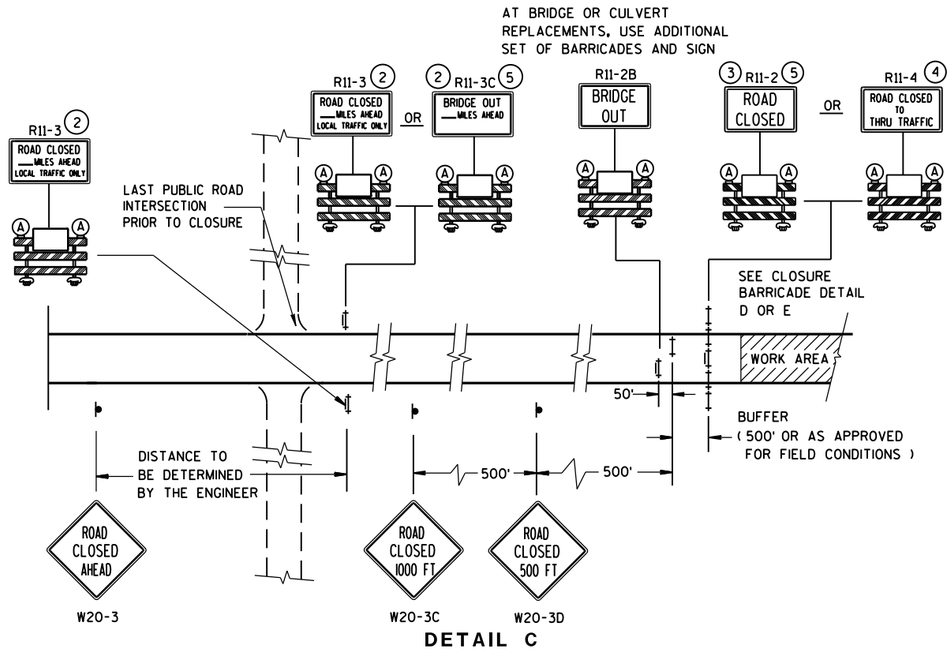
DETAIL A
MAINLINE CLOSURE WITH POSTED DETOUR

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



DETAIL B
MAINLINE CLOSURE WITH POSTED DETOUR

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



DETAIL C
MAINLINE CLOSURE, NO POSTED DETOUR

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

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

LEGEND

- SIGN ON PERMANENT SUPPORT
- TYPE III BARRICADE
- TYPE III BARRICADE WITH ATTACHED SIGN
- (A) TYPE "A" WARNING LIGHT (FLASHING)
- WORK AREA
- DETOUR / EAST — M4-8 / M3-X
- XX — M1-4; COUNTY XX — M1-5A; XX — M1-6
- M05-1 OR M06-1
- FLAGS, 16" X 16" MIN., (ORANGE)

BARRICADES AND SIGNS FOR MAINLINE CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

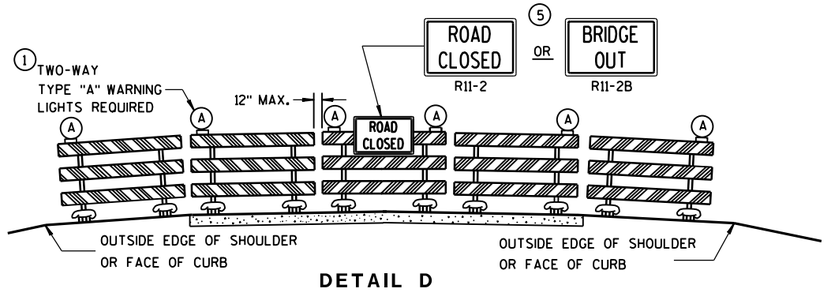
Sept. 2015 — DATE
/S/ Peter Amakobe Atepe
STATEWIDE WORK ZONE TRAFFIC SAFETY ENGINEER
FHWA

6

S.D.D. 15 C 2-6a

6

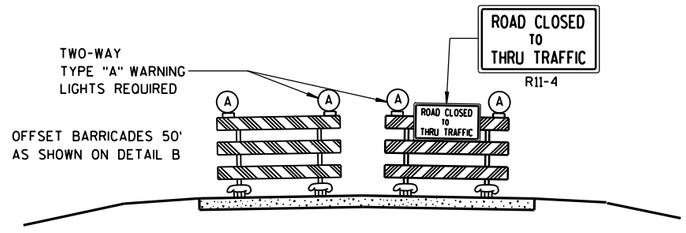
S.D.D. 15 C 2-6a



DETAIL D

ROAD CLOSURE BARRICADE DETAIL

APPROACH VIEW



DETAIL E

LANE CLOSURE BARRICADE DETAIL

APPROACH VIEW

SEE SDD 15C2-SHEET "**a**" FOR LEGEND

GENERAL NOTES

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

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

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

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

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

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

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

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

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

ALL SIGNS SHALL BE 48" X 48" UNLESS OTHERWISE NOTED BELOW:
- R11-2 SHALL BE 48" X 30".
- R11-3, 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". (30" X 15" 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.)
- D1-X SHALL BE AS SHOWN ON SPECIFIC PROJECT SIGNING DETAIL SHEETS.
- R1-1 SHALL BE 36" X 36".

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

(2) THESE SIGNS AND BARRICADES ARE NOT REQUIRED IF ROAD CLOSURE BEGINS AT 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 LANE 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 MAINLINE CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

Sept. 2015 — DATE

/S/ Peter Amakobe Atepe
STATEWIDE WORK ZO SAFETY ENGI — FHWA — FIC

6

S.D.D. 15 C 2-6b

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

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.

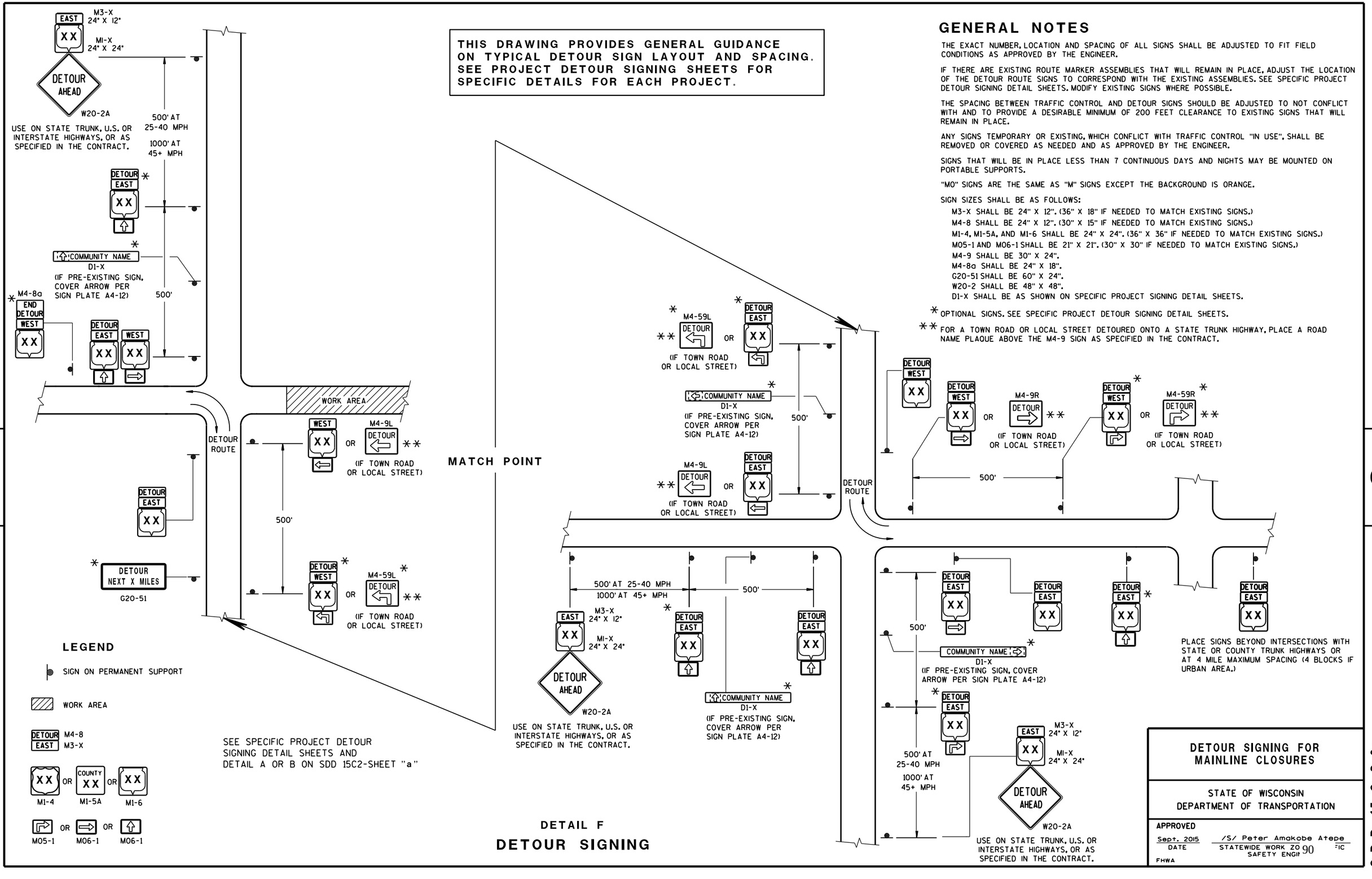
"MO" SIGNS ARE THE SAME AS "M" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

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". (30" X 15" 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.)
- M4-9 SHALL BE 30" X 24".
- M4-8a SHALL BE 24" X 18".
- G20-51 SHALL BE 60" X 24".
- W20-2 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.



DETAIL F

DETOUR SIGNING

DETOUR SIGNING FOR MAINLINE CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

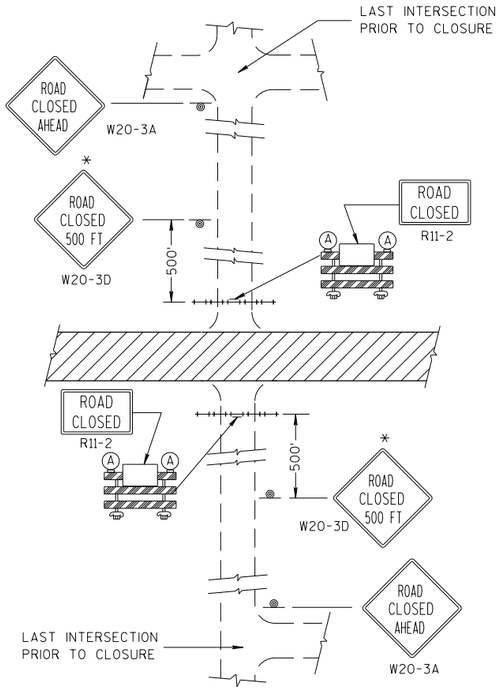
Sept. 2015 — DATE

/S/ Peter Amakobe Atepe — STATEWIDE WORK ZONE SAFETY ENGINEER

FHWA

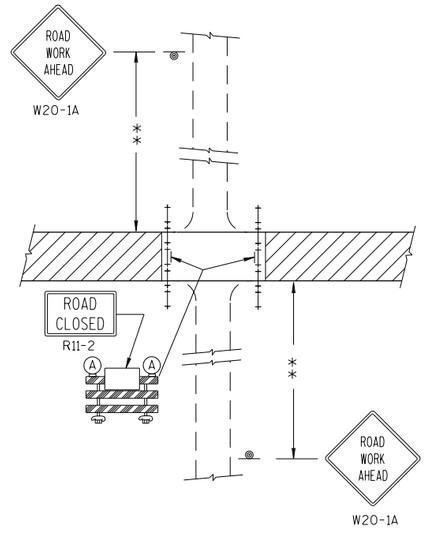
S.D.D. 15 C 2-6c

6



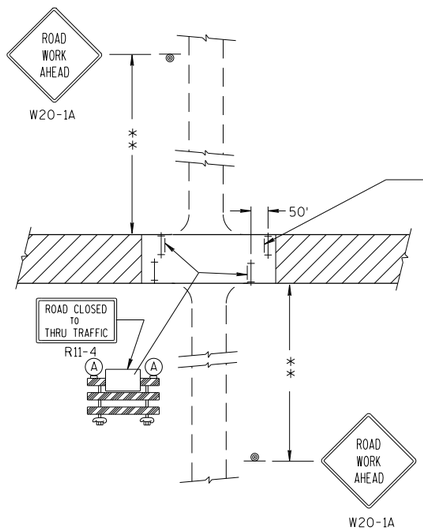
DETAIL 1

(NO ACCESS TO PROJECT)



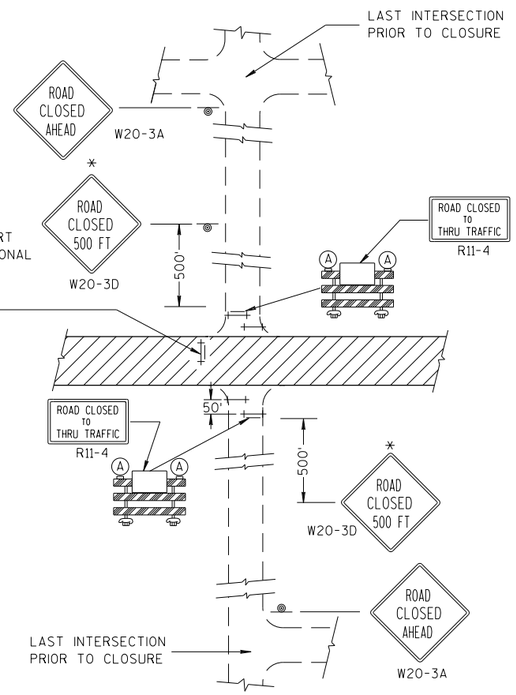
DETAIL 2

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



DETAIL 3

(PUBLIC CROSS-TRAFFIC MAINTAINED. CONTRACTOR,
LOCAL BUSINESS AND RESIDENT ACCESS).



DETAIL 4

(CONTRACTOR, LOCAL BUSINESS AND
RESIDENT 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 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 RE-ESTABLISHED.

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

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

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

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

THE R11-2, R11-3 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 FT. OR LESS FROM THE WORK ZONE.

**500' MAX. OR AT LAST INTERSECTION WHICHEVER IS CLOSER.

LEGEND

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

BARRICADES AND SIGNS FOR SIDEROAD CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

7/2018
DATE

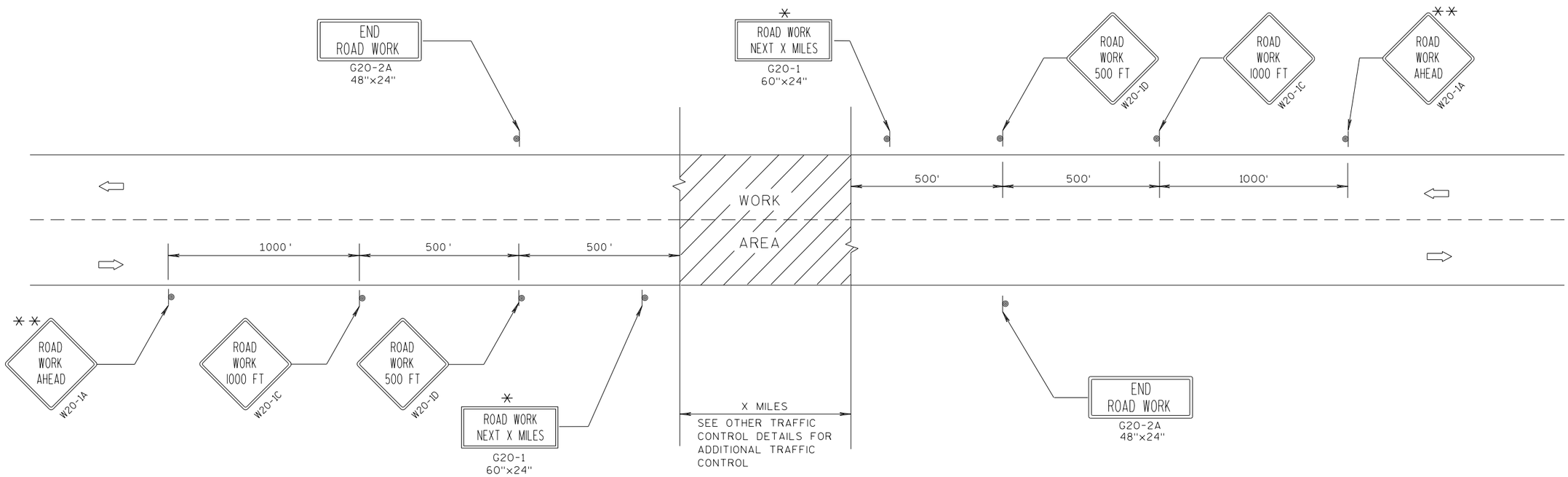
/S/ Andrew Heidtke
WORK ZONE ENGI

FHWA

6

S.D.D. 15 C 3-5

TYPICAL SIDEROAD APPROACH WARNING SIGN DETAIL



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.

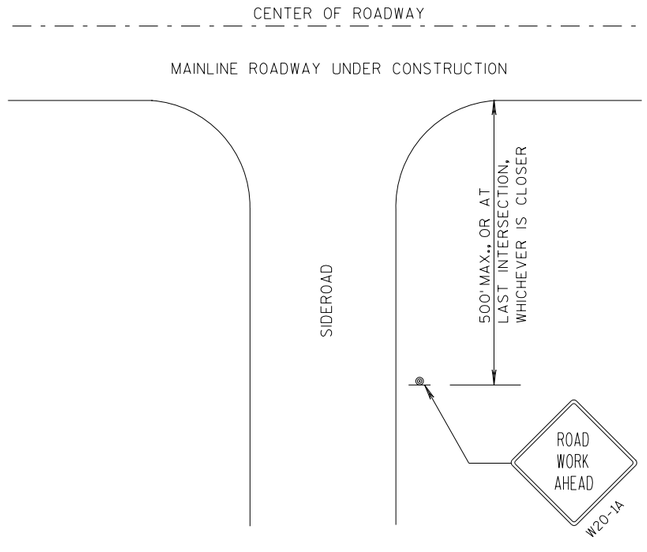
ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 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 RE-ESTABLISHED.

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

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



LEGEND

- SIGN ON PERMANENT SUPPORT
- DIRECTION OF TRAFFIC
- WORK AREA

TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 M.P.H. OR GREATER TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

7/2018
DATE

/S/ Andrew Heldtke
WORK ZONE ENGI

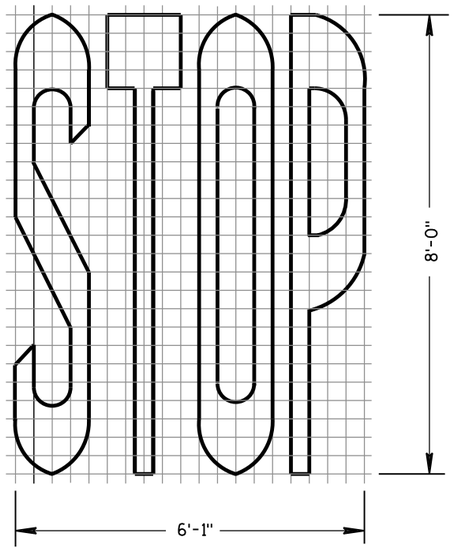
FHWA

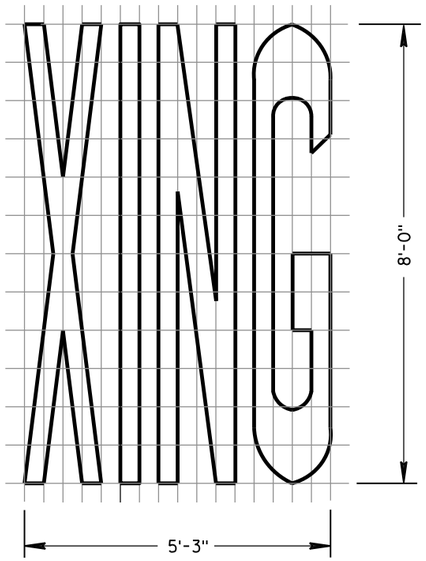
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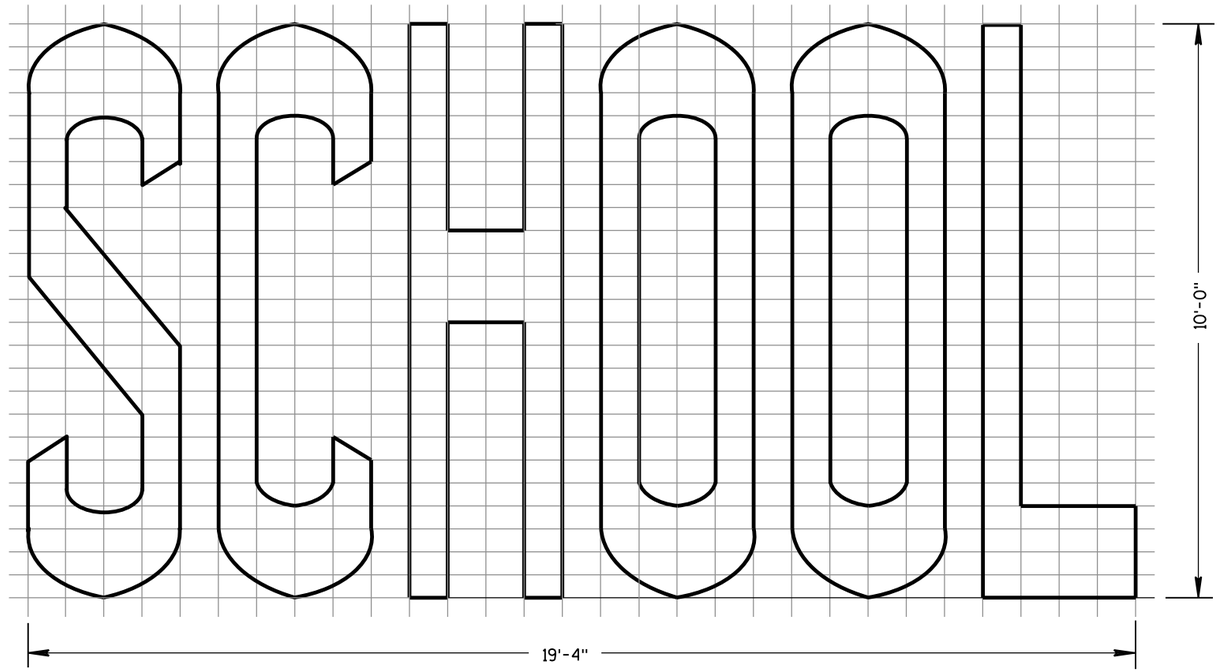
S.D.D. 15 C 4-5

GENERAL NOTES

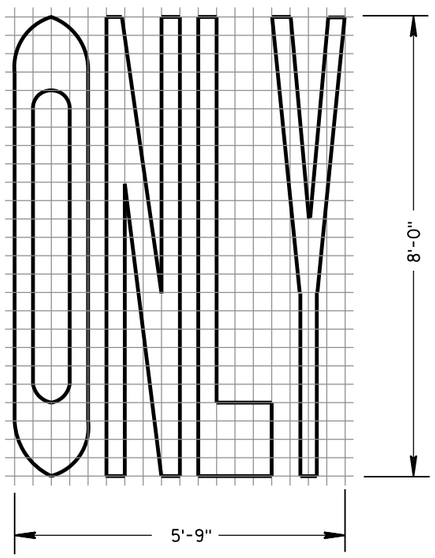
DETAILS OF INSTALLATION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

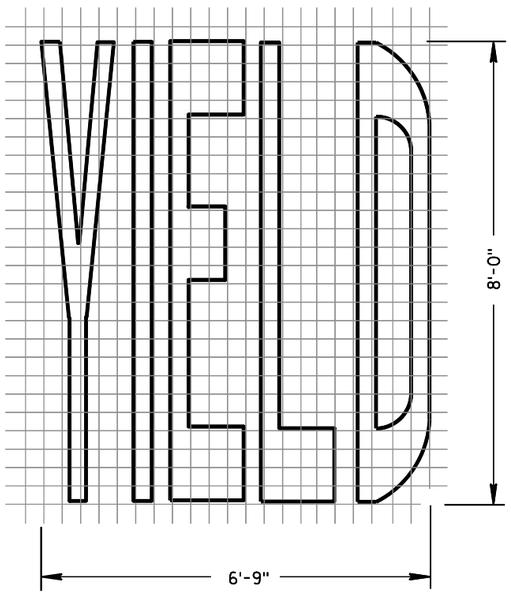


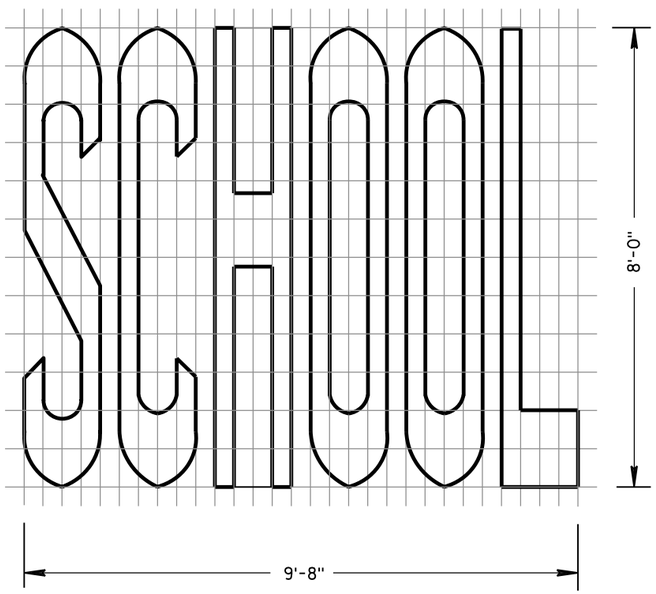




TWO-LANE







SINGLE-LANE

PAVEMENT MARKING WORDS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

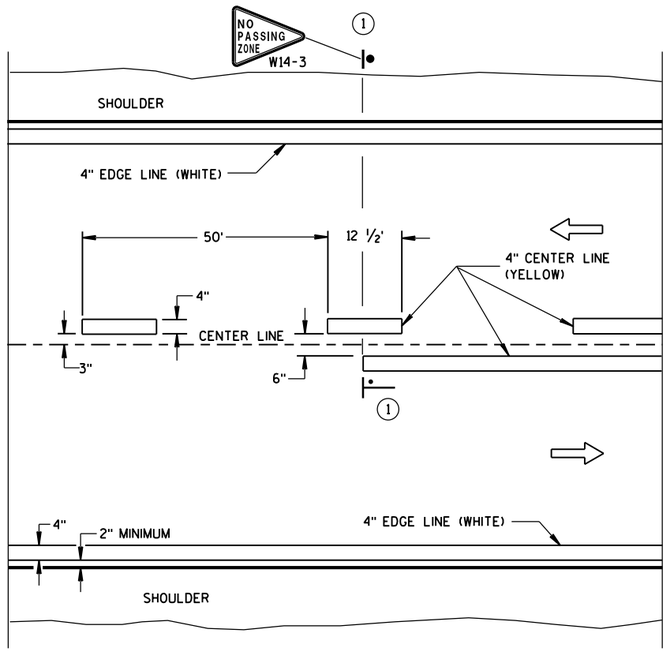
APPROVED
June 2017 — DATE
/S/ Matthew R. Rauch — STATE SIGNING AND MARKING ENGINEER
FHWA

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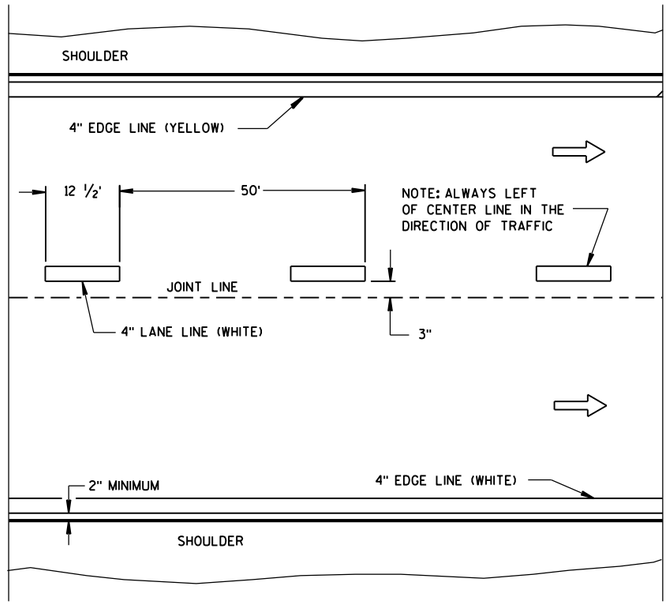
S.D.D. 15 C 7-14b

6

S.D.D. 15 C 7-14b



TWO WAY TRAFFIC



ONE WAY TRAFFIC

PERMANENT PAVEMENT MARKING

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.

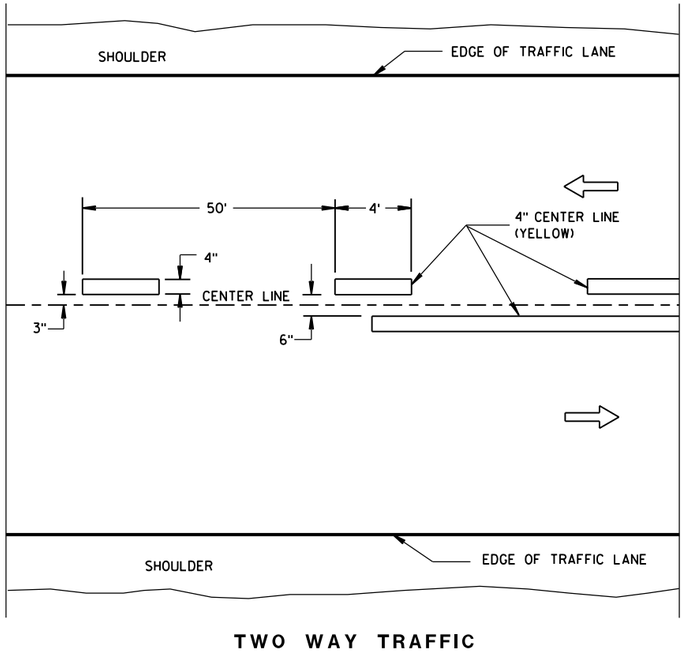
NOTE

ARROW SYMBOL (⇨) SHOWS DIRECTION OF TRAVEL

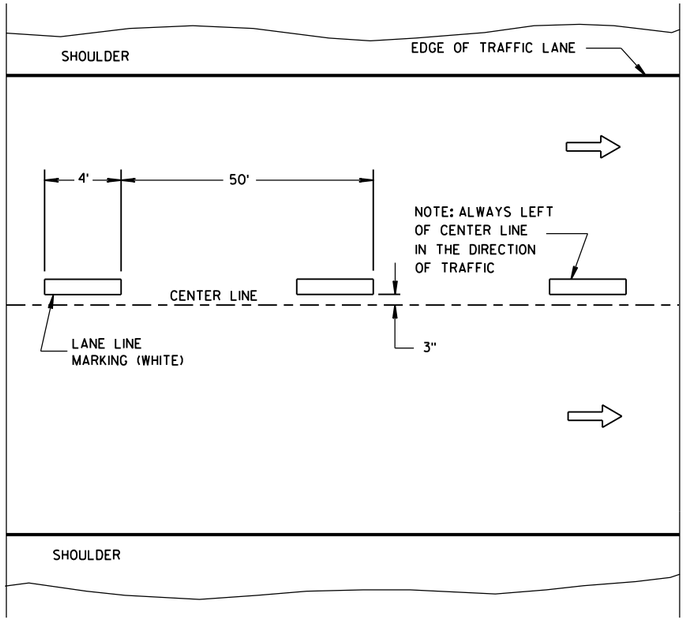
LEGEND

"T" MARKING

POST MOUNTED SIGN



TWO WAY TRAFFIC



ONE WAY TRAFFIC

TEMPORARY PAVEMENT MARKING

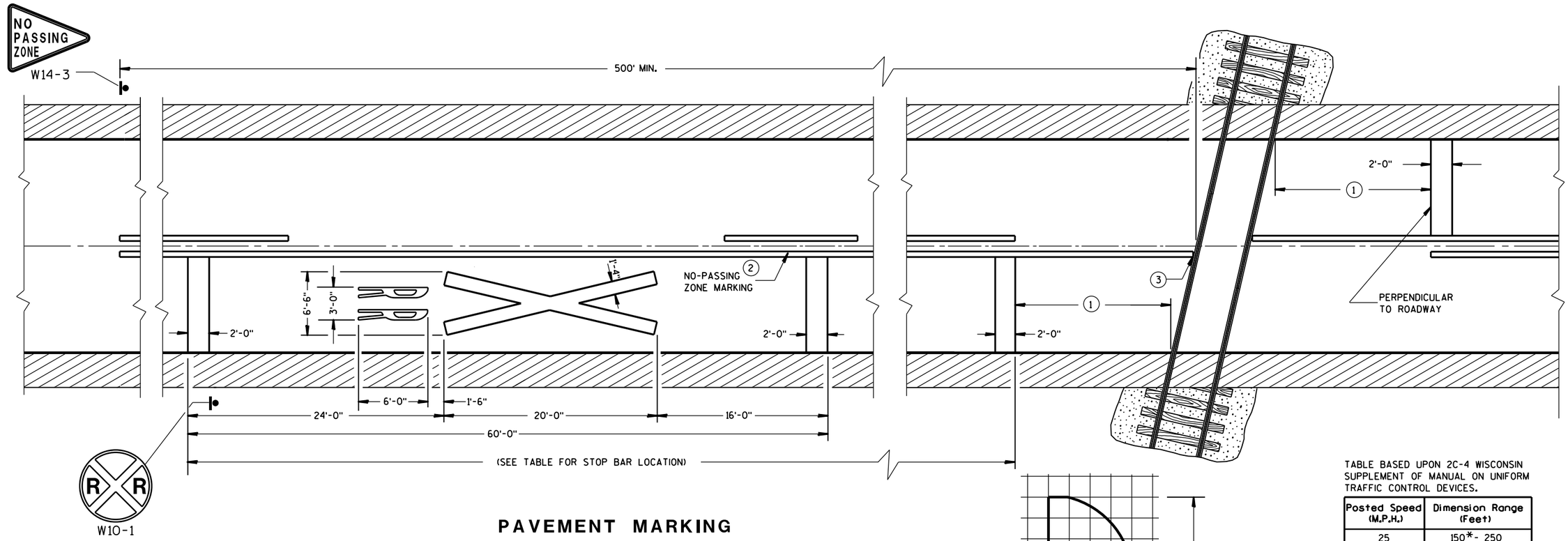
LONGITUDINAL MARKING (MAINLINE)	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED	
June 2017 (DATE)	/S/ Matthew R. Rauch (STATE SIGNING AND MARKING ENGINEER)
FHWA	

6

S.D.D. 15 C 8-18a

6

S.D.D. 15 C 8-18a



PAVEMENT MARKING

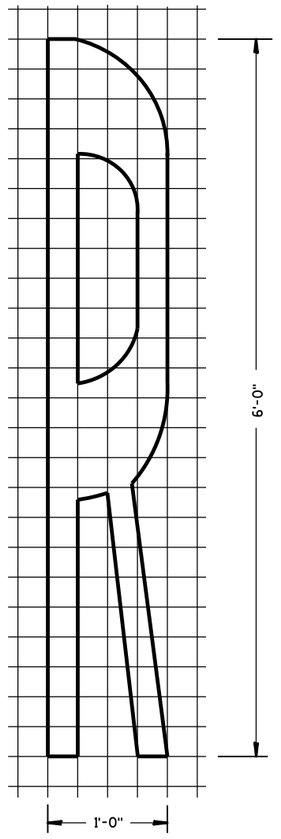


TABLE BASED UPON 2C-4 WISCONSIN SUPPLEMENT OF MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

Posted Speed (M.P.H.)	Dimension Range (Feet)
25	150*- 250
30	200*- 300
35	250*- 450
40	300*- 500
45	400*- 650
50	550*- 800
55	750*- 1000
60	1000*- 1250
65	1000*- 1250

* THE MINIMUM DISTANCES IN THE TABLE ARE DESIRABLE AND SHOULD BE USED. THE DISTANCES MAY BE INCREASED UP TO THE MAXIMUM TO ALLOW FOR FIELD CONDITIONS SUCH AS THE CLOSE PROXIMITY OF DRIVEWAYS, BRIDGES, SIDEROADS OR OTHER FEATURES THAT WOULD PROHIBIT THE MINIMUM DISTANCES FROM BEING USED.

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.

ON MULTI-LANE ROADS THE TRANSVERSE BANDS SHOULD EXTEND ACROSS ALL APPROACH LANES, AND INDIVIDUAL R X R SYMBOLS SHOULD BE USED IN EACH APPROACH LANE.

CENTER OR LANE LINES AND NO-PASSING ZONE MARKINGS SHOWN ON THIS DRAWING ARE REQUIRED AND PAID FOR UNDER OTHER ITEMS IN THE CONTRACT.

RETRACE EXISTING SYMBOL WHERE EXISTING SYMBOLS ARE PLACED.

(1) MINIMUM 8' FROM ANY RAILROAD WARNING DEVICES (SIGNALS, GATES, ETC.) OR 25' FROM THE NEAREST RAIL, WHICHEVER DISTANCE IS GREATER.

(2) 500' MINIMUM. MARKING LIMITS MAY BE EXTENDED AS DIRECTED BY THE ENGINEER TO MEET ADJACENT NO-PASSING ZONE MARKINGS.

(3) FOR MULTIPLE TRACK CROSSINGS, THE BARRIER LINE SHALL EXTEND TO THE NEAR RAIL OF THE FURTHEST TRACK IN THE DIRECTION OF HIGHWAY TRAVEL.

SIGNING AND PAVEMENT MARKING DETAILS FOR RAILROAD-HIGHWAY GRADE CROSSINGS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

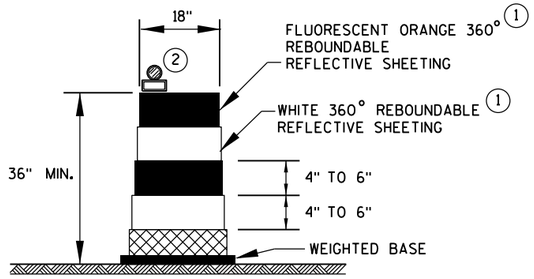
Sept., 2017 — DATE
/S/ Matthew R. Rauch — STATE SIGNING AND MARKING ENGINEER
FHWA

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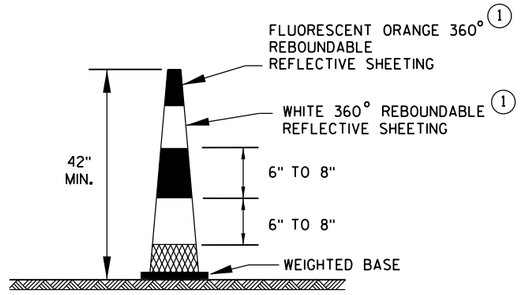
S.D.D. 15 C 9-11a

6

S.D.D. 15 C 9-11a



DRUM

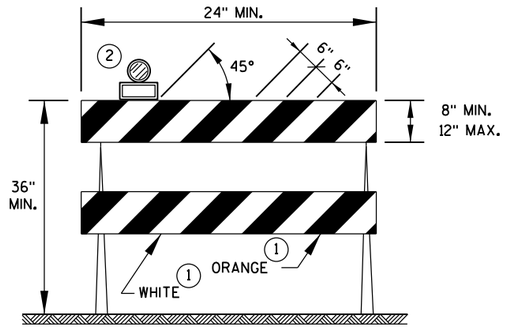


42" CONE

DO NOT USE IN TAPERS
1/2 SPACING OF DRUMS

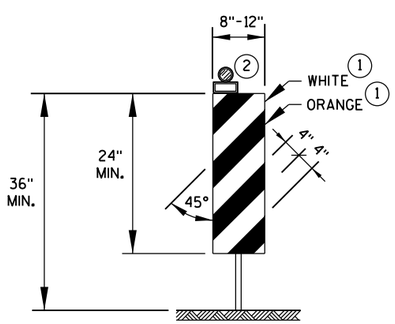
GENERAL NOTES

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.



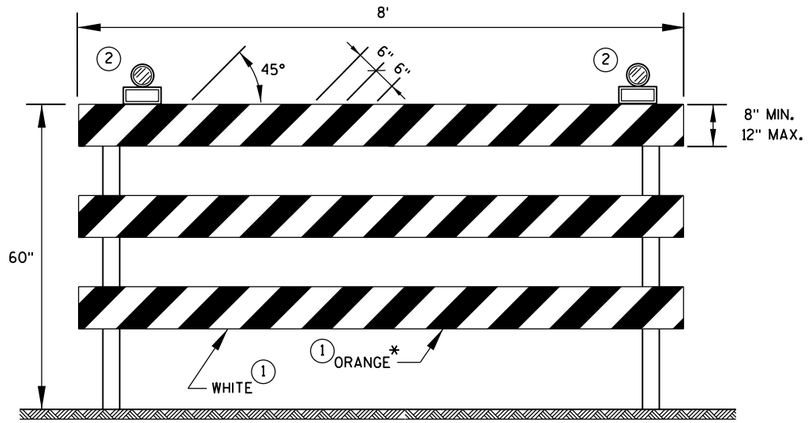
TYPE 2 BARRICADE

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



VERTICAL PANEL

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



TYPE 3 BARRICADE

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

* IF USED FOR A PERMANENT APPLICATION, USE RED SHEETING.

CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

June 2017 — DATE

/S/ Andrew Heidtke — WORK ZONE ENG

FHWA

6

S.D.D. 15 C 11-7b

6

S.D.D. 15 C 11-7b

LEGEND

- SIGN ON PORTABLE OR PERMANENT SUPPORT
- DIRECTION OF TRAFFIC
- WORK AREA
- FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF

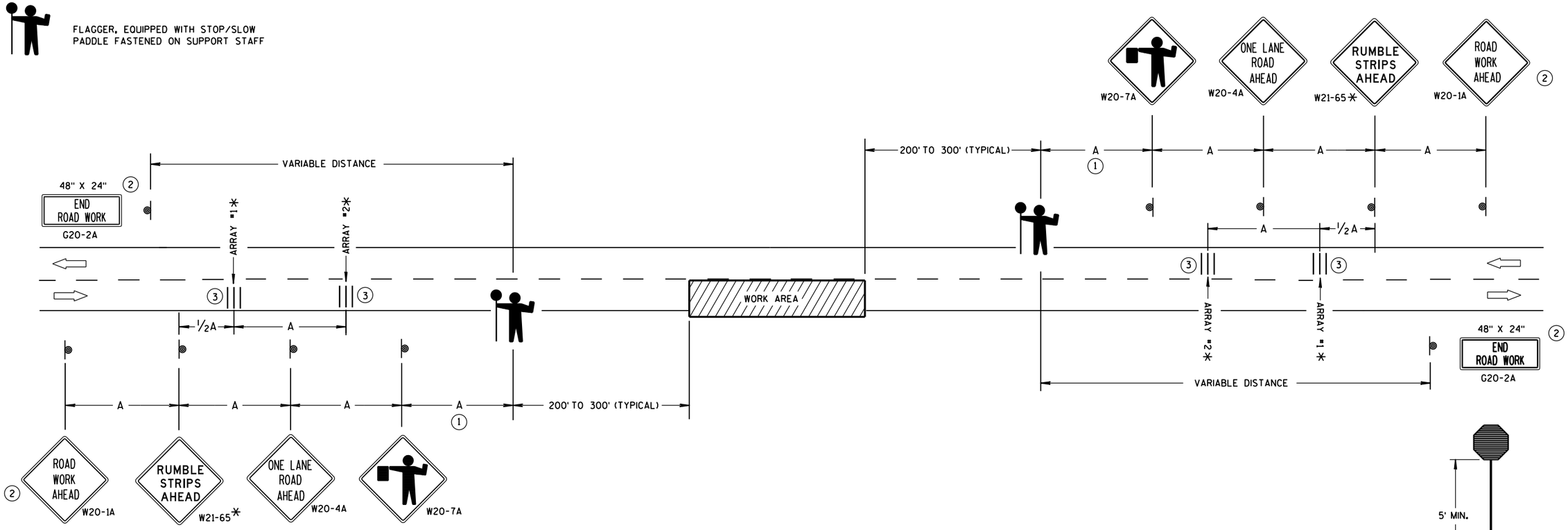
SIGN AND TEMPORARY RUMBLE STRIP ARRAY SPACING TABLE

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

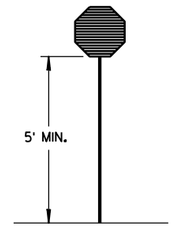


W03-4

USE OF THE "BE PREPARED TO STOP" 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



STOP/SLOW PADDLE ON SUPPORT STAFF

GENERAL NOTES

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

THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS AND DEVICES (AND THE 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.

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

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.

INSTALL TEMPORARY RUMBLE STRIPS PER MANUFACTURER'S RECOMMENDATIONS.

PLACE ADVANCE SIGNING PRIOR TO INSTALLING TEMPORARY RUMBLE STRIPS.

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

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 RUMBLE STRIPS PRIOR TO COVERING OR REMOVING ALL ADVANCE SIGNING.

* UTILIZE TEMPORARY RUMBLE STRIPS WHEN FLAGGING OPERATION IS ANTICIPATED TO BE STATIONARY IN EXCESS OF TWO HOURS.

(1) FOR A MOVING WORK OPERATION, SIGNING AND TEMPORARY RUMBLE STRIPS (IF USED) SHALL BE REESTABLISHED (AS SIMULTANEOUSLY AS PRACTICAL) AT APPROXIMATELY 3,500 FOOT 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.

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

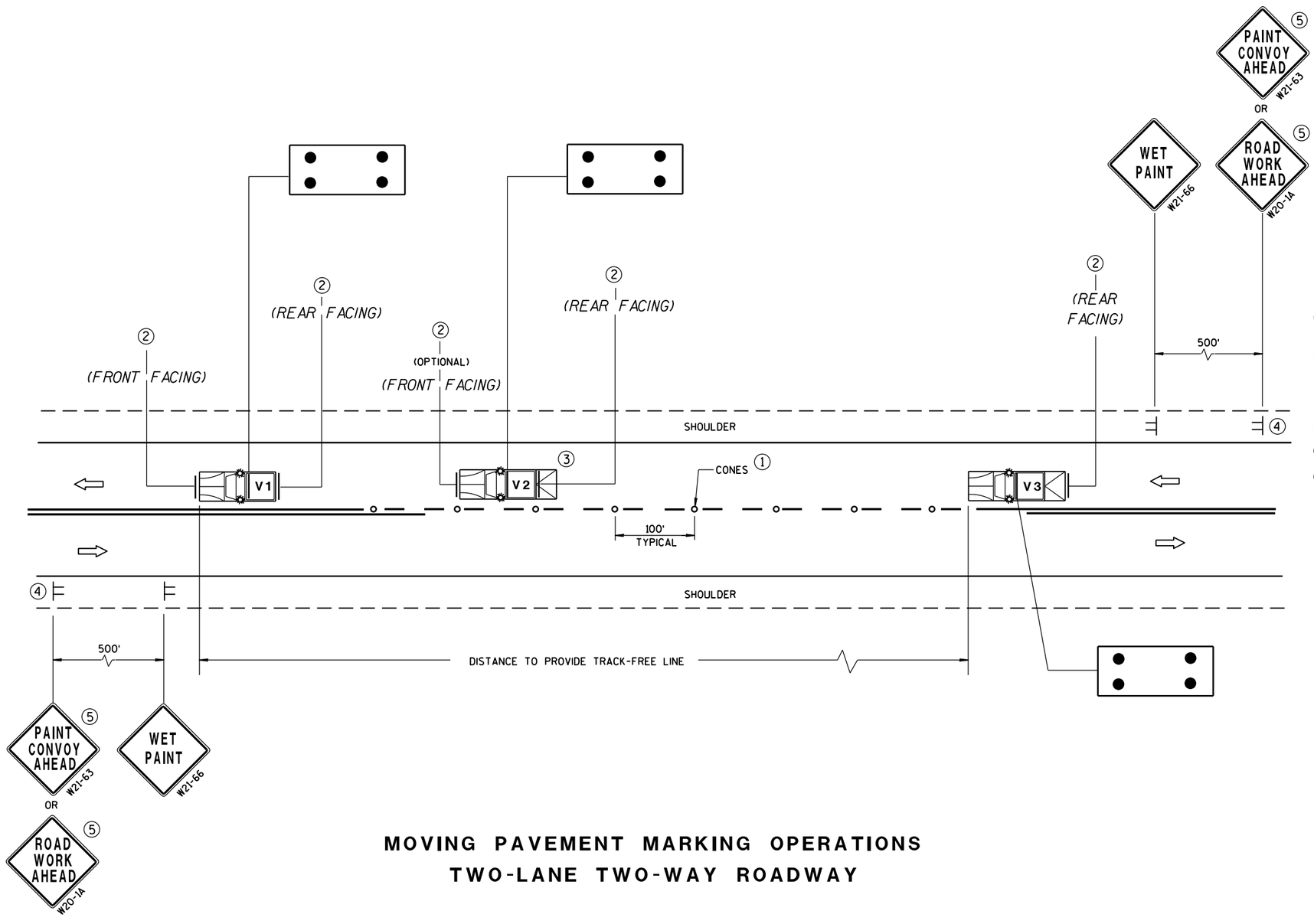
TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June 2017
DATE
/S/ Andrew Heldtke
WORK ZONE ENG
FHWA

6

S.D.D. 15 C 12-6



MOVING PAVEMENT MARKING OPERATIONS
TWO-LANE TWO-WAY ROADWAY

GENERAL NOTES

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

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

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

IF SPEED LIMIT IS 40 MPH OR LESS STATIONARY SIGNS MAY BE OMITTED IF CONES ARE USED.

ALTERNATE SIGN MESSAGES, SUCH AS "PAINT CREW AHEAD" OR "ROAD PAINTING AHEAD" MAY BE USED.

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

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

THIS DRAWING SHALL BE USED FOR CENTERLINE OR EDGELINE MARKING.

WHEN NO WORK ACTIVITY IS TAKING PLACE, REMOVE OR TURN THE STATIONARY WARNING SIGNS AWAY FROM TRAFFIC.

(1) CONES MAY BE OMITTED ON PAINTED LINE IF APPROVED BY THE ENGINEER. CONSIDER PAVEMENT MARKING DRY OR CURE TIMES AND TRAFFIC VOLUME.

(2) USE STANDARD SIGN W21-64 WITH APPROPRIATE ARROW.

WET PAINT W21-64 OR WET PAINT W21-64

(3) OPTIONAL TRUCK-MOUNTED ATTENUATOR.

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

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

LEGEND

V1 LEAD VEHICLE

V2 SHADOW VEHICLE

V3 TRAIL VEHICLE WITH TMA

TMA TRUCK-MOUNTED ATTENUATOR

SIGN ON TEMPORARY SUPPORT

DIRECTION OF TRAFFIC

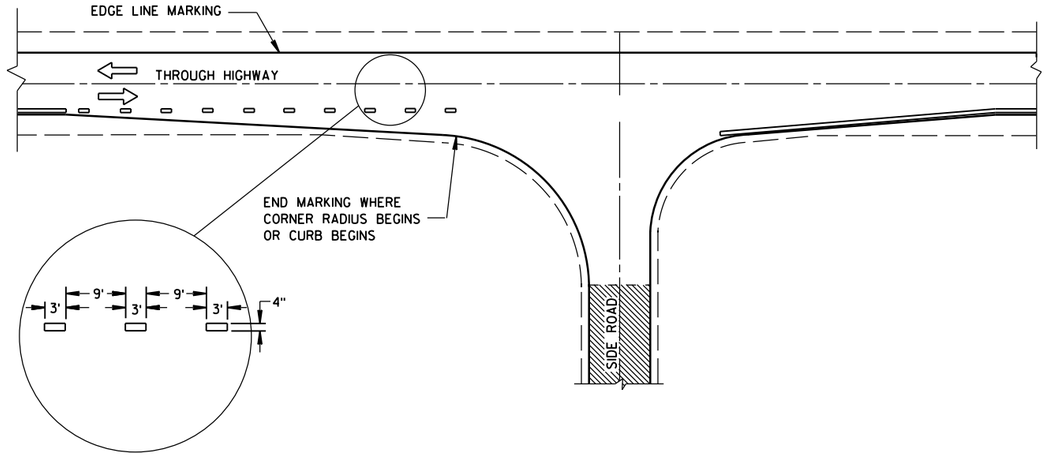
CONES

FLASHING ARROW PANEL (CAUTION)

MOVING PAVEMENT MARKING OPERATION TWO-LANE TWO-WAY ROADWAY	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED	
Sept., 2017 DATE	/S/ Andrew Heldtke WORK ZONE ENGR
FHWA	

6

S.D.D. 15 C 19-5a



MINOR INTERSECTION

GENERAL NOTES

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

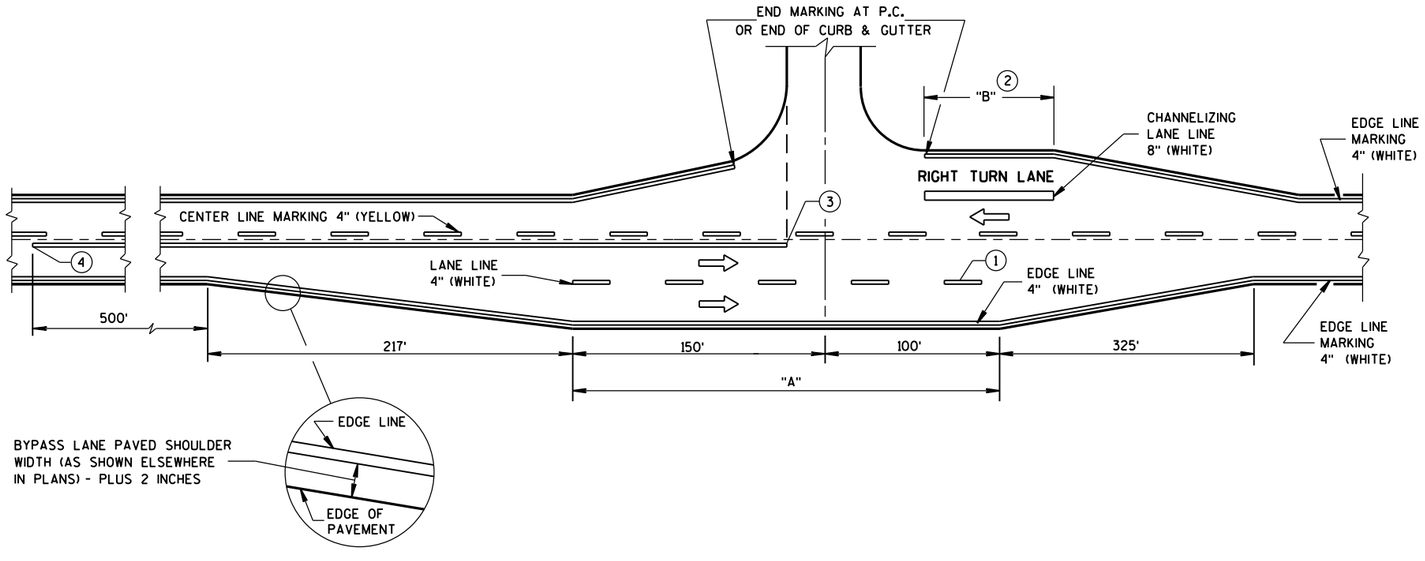
(1) WHEN DISTANCE "A" IS LESS THAN 250 FEET, OMIT LANE LINE.

(2) WHEN DISTANCE "B" IS LESS THAN 100 FEET, OMIT CHANNELIZING LANE LINE.

(3) BARRIER LINE ENDS AT SIDE ROAD PAVEMENT/SURFACE EDGE EXTENSION.

(4) BARRIER LINE STARTS 500 FEET PRIOR TO THE BYPASS TAPER.

ARROW SYMBOL (⇨) SHOWS DIRECTION OF TRAVEL



MAJOR INTERSECTIONS

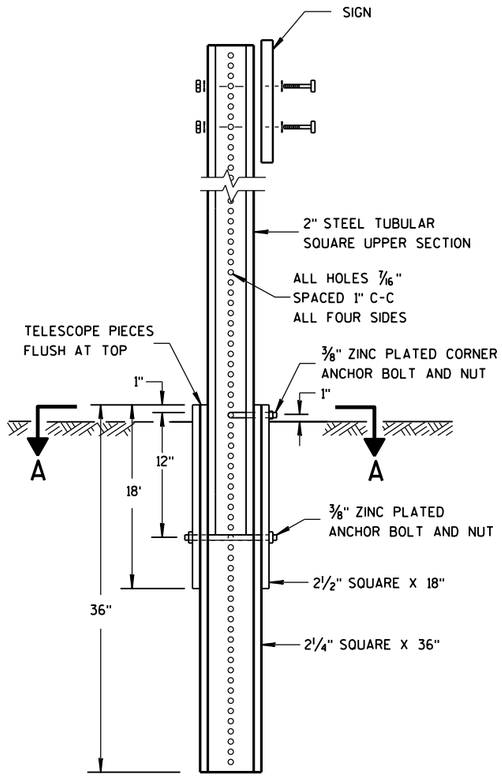
(INTERSECTION WITH FULL RIGHT TURN LANE OR BYPASS LANE)

PAVEMENT MARKING
(INTERSECTIONS)

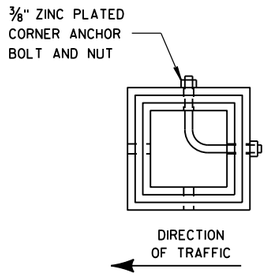
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

6

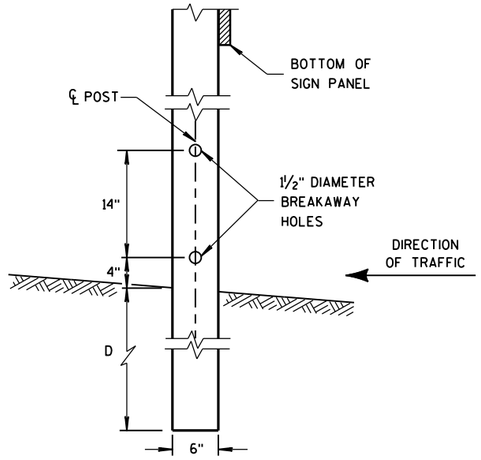
S.D.D. 15 C 35-2a



DETAIL OF TUBULAR STEEL SIGN POST



SECTION A-A



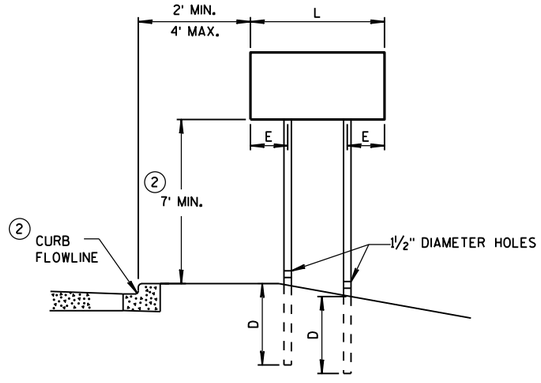
4"x6" WOOD POST MODIFICATION

GENERAL NOTES

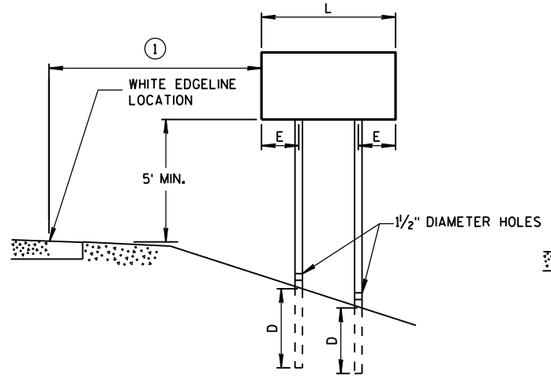
(1) 6 FEET FROM THE EDGE OF PAVEMENT (EDGE LINE LOCATION) UNLESS OTHERWISE DIRECTED BY THE PROJECT ENGINEER. LATERAL OFFSET SHOULD BE ADJUSTED TO AVOID THE DITCH FLOWLINE.

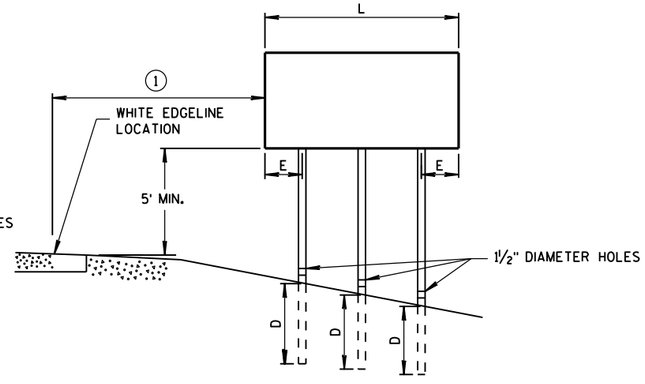
(2) THE EXISTENCE OF CURB AND GUTTER DOES NOT IN ITSELF MANDATE THE VERTICAL CLEARANCE ILLUSTRATED. THAT HEIGHT IS TYPICALLY MEASURED WHERE THERE IS SIDEWALK ADJACENT TO THE ROADWAY OR PARKING IS PERMITTED. IN THE ABSENCE OF SIDEWALK, VERTICAL CLEARANCE IS MEASURED FROM THE TOP OF THE CURB. IF NO SIDEWALK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

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



URBAN AREA





RURAL AREA

POST MOUNTING DETAIL FOR TEMPORARY TRAFFIC CONTROL FIXED MESSAGE SIGNS

TUBULAR STEEL POSTS

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

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

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

WOOD POST EMBEDMENT DEPTH

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

4" X 6" WOOD POST

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

SEE NOTE (3)

TEMPORARY TRAFFIC CONTROL SIGN MOUNTING

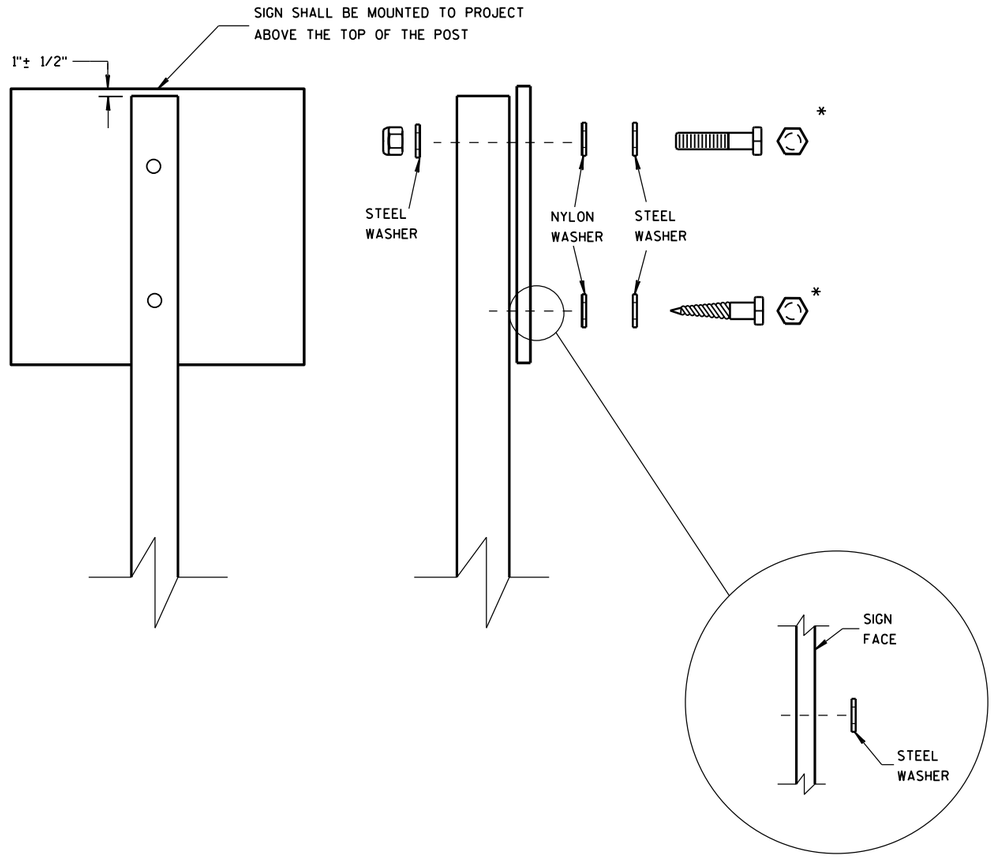
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

6

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

6

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



WASHER PLACEMENT WHEN SIGN HAS OTHER THAN TYPE H OR TYPE F FACE

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

A. HOT DIP GALVANIZED IN ACCORDANCE WITH ASTM DESIGNATION: A 153, CLASS D, OR SC 3

B. ELECTRO-GALVANIZED IN ACCORDANCE WITH ASTM DESIGNATION: B 633, TYPE III, SC 3

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

WOOD POSTS (4" x 4" or 4" x 6")

LAG SCREWS - 3/8" X 3"

MACHINE BOLTS - 5/16" X 6-1/2" OR 7" LENGTH W/ NUTS

SQUARE STEEL POSTS (2" x 2")

MACHINE BOLTS - 3/8" X 3-1/4" LENGTH W/ NUTS

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 FOR ALL TYPE H SIGNS

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

6

6

S.D.D. 15 D 38-2b

S.D.D. 15 D 38-2b

ATTACHMENT OF SIGNS TO POSTS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

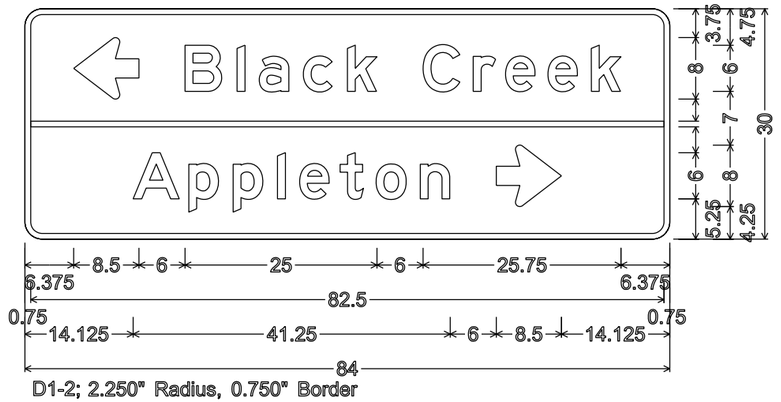
June 2017
DATE

/S/ Andrew Heldtke
WORK ZONE ENG

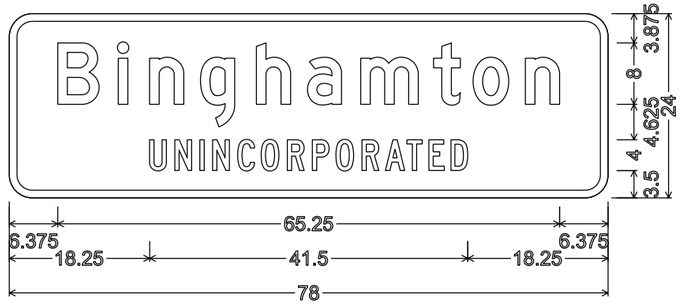
FHWA

NOTES

1. All Signs Type II - Type H Reflective
2. Color:
   Background - Green
   Message - White
3. Message Series - E except as noted



D1-2; 2.250" Radius, 0.750" Border



I2-3 ; 3.000" Radius, 1.000" Border,
"Binghamton" D; "UNINCORPORATED" C

7

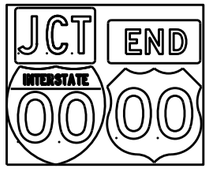
7

PROJECT NO: 6505-03-71	HWY: CTH A	COUNTY: OUTAGAMIE	PERMANENT SIGNING	SHEET NO: 102	E

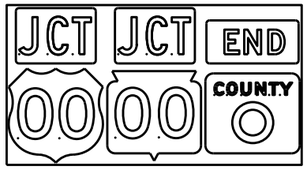
TYPICAL ASSEMBLIES



J1-1



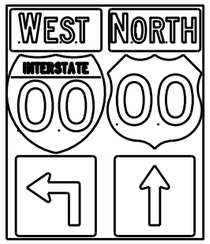
J1-2



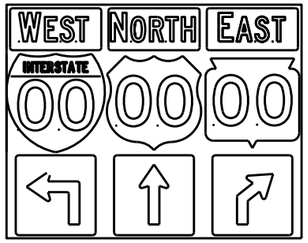
J1-3



J2-1



J2-2

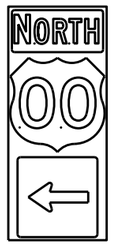


J2-3

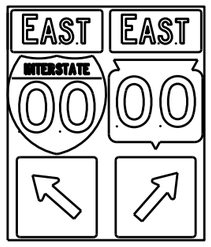


JV

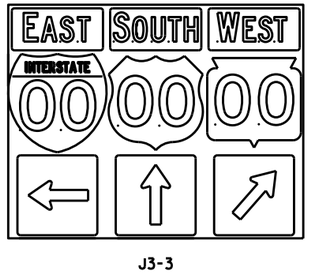
(Typical Vertical J-Assembly
See Note 10 and 11)



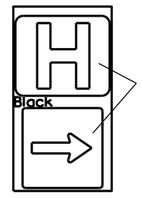
J3-1



J3-2



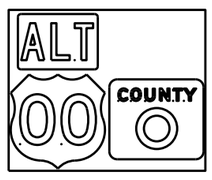
J3-3



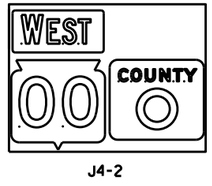
JH-1



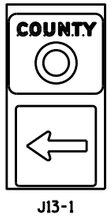
J4-1



J4-2



J4-2



J13-1



J12-1



J32-1



J33-1

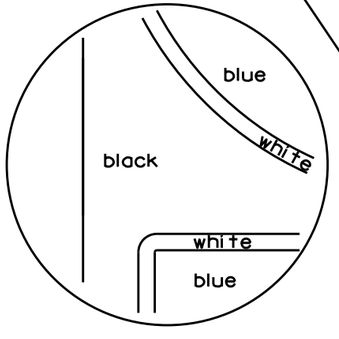


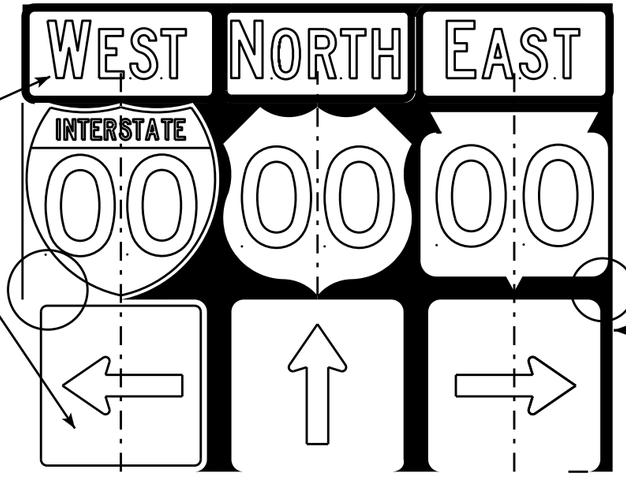
J23-1

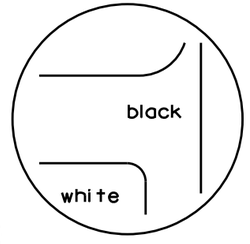


J22-1

[blue background with interstate]







[black background]

NOTES

1. Signs are Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Black Non-reflective
   Message - see Note 5
3. Message Series - See Note 5
4. Corners shall be square or rounded if base material is plywood. If base material is metal the corners shall be rounded.
5. The colors and message spacing on each marker shall be according to the applicable route marker panel specifications.
6. Certain marker heads require the component pieces to be the same color. As an example, all the components used with an M1-1 Interstate marker shall be blue.
7. Single panel j-assemblies shall only be used with route marker shields that are same size. If the route marker shields are different size use multiple piece component.
8. Route assemblies that have 24 inch route shields and have dimensions greater than 48 inches (both vertical and horizontal) shall have one horizontal splice between the arrows and route shields. Vertical splices shall not be used on route assemblies with a horizontal dimension of 144 inches or less. The contractor shall not use more than one vertical joint per sign and the joint shall be between route shields.
9. Route assemblies that have 36 inch shields and have dimensions greater than 48 inchs (both vertical and horizontal) shall have two horizontal splices. One horizontal splice shall be between the cardinal direction and route shields and the other horizontal splice shall be between the arrows and route shields. Vertical splices shall not be used on route assemblies with a horizontal dimension of 144 or less. The contractor shall not use more than one vertical joint per sign and the joint shall be between route shields.
10. All Vertical J Assemblies are given a Sign Code of JV
11. For JV Assemblies that have a mixture of Interstate and non Interstate shields, arrows and cardinals shall be white on blue.

ROUTE MARKERS & COMPONENTS
IN TYPICAL ASSEMBLIES

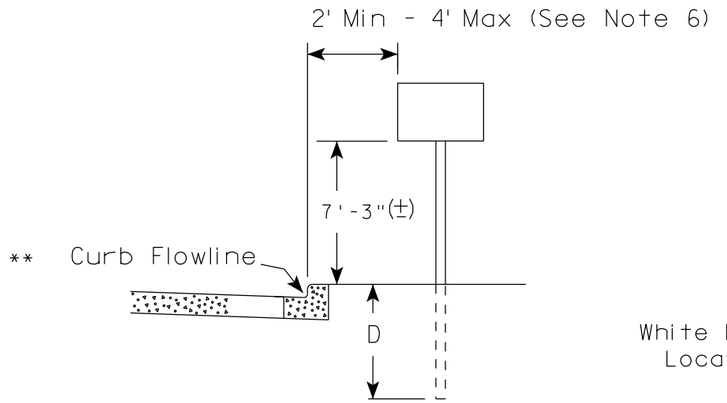
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

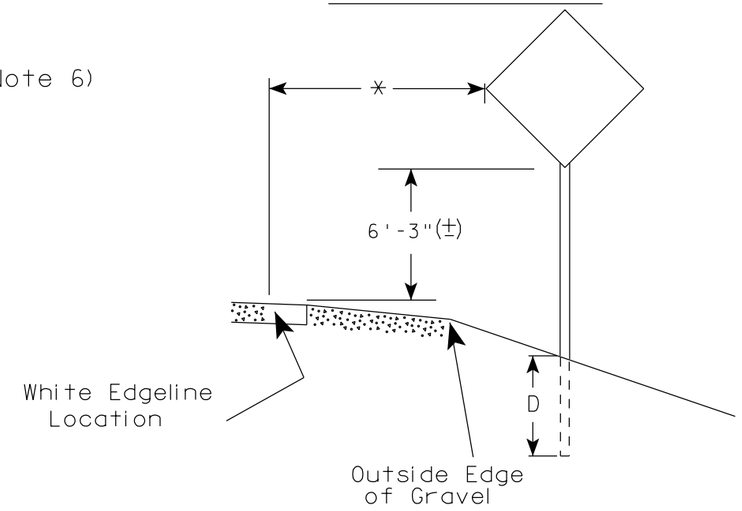
DATE 2/06/14 PL... A2-1S.8

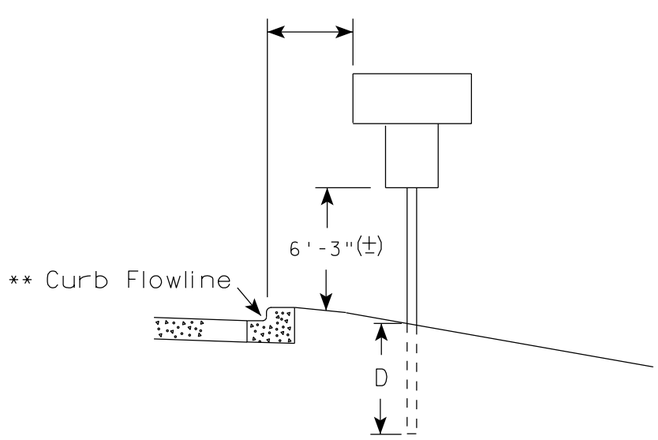
PROJECT NO: | SHEET NO: E

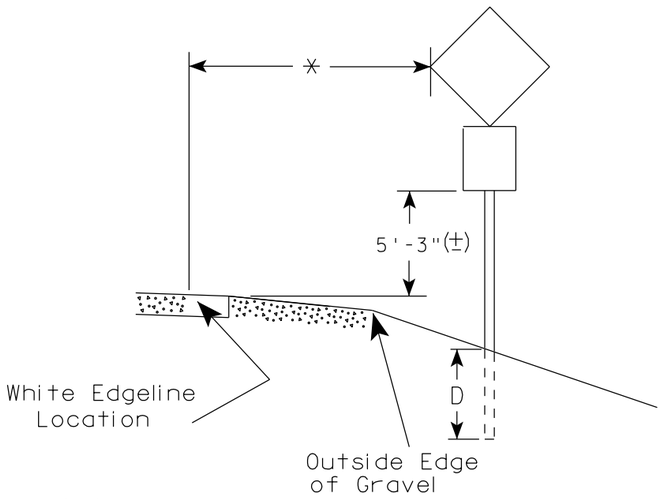
URBAN AREA



RURAL AREA (See Note 2)







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 barrier wall, see A4-10 sign plate.
3. For expressways and freeways, mounting height is 7'- 3" (±) or 6'-3" (±) depending upon existence of a sub-sign.
4. Minimum mounting height for J assemblies (A2-1S) is 7'-3" (±) or 6'-3" (±) per urban or rural detail respectively.
5. Minimum mounting height for signs mounted on traffic signal poles is 5'- 3" (±).
6. Offset distance shall be consistent with existing signs or consistent throughout length of project.
7. The (±) tolerance for mounting height is 3 inches.
8. Folding signs shall be mounted at a height of 5'-3" (±) or as directd by the Engineer.
9. The Double Arrow sign (W12-1) shall be mounted at a height of 2'-3" (±). The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), 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" (±).

POST EMBEDMENT DEPTH

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

** 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.

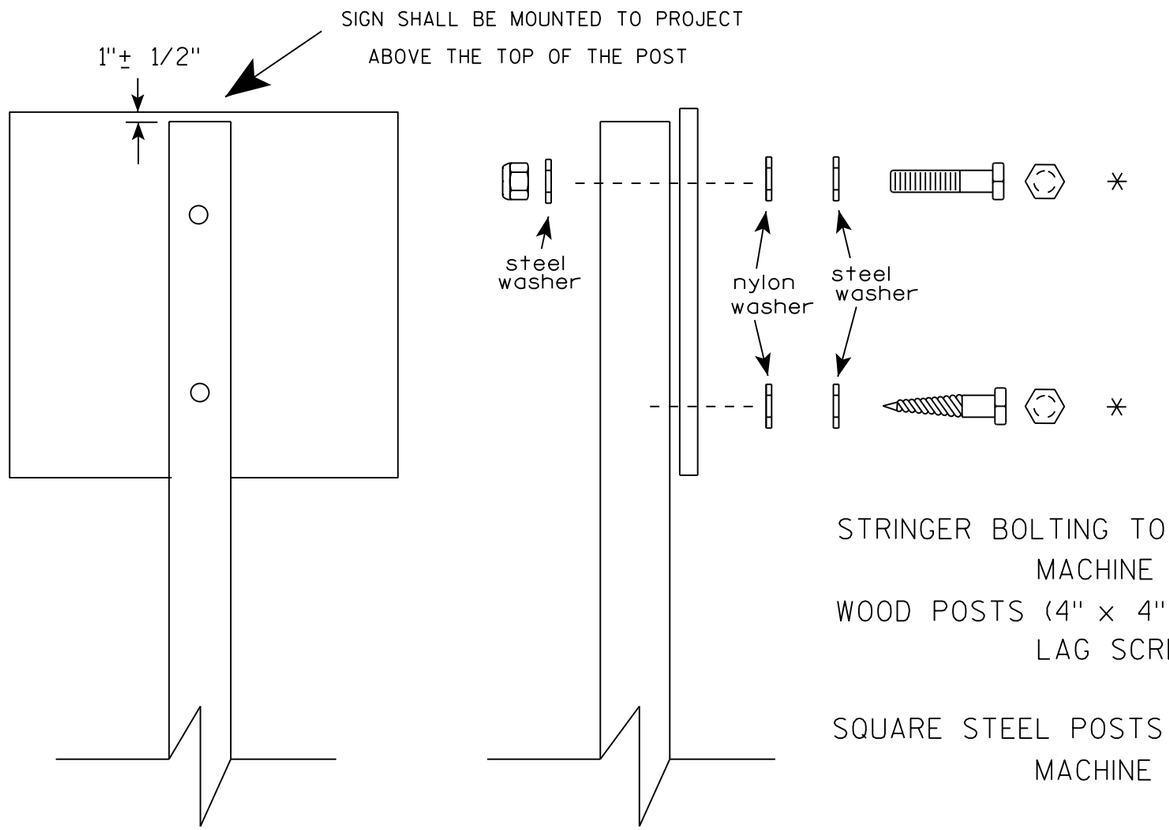
TYPICAL INSTALLATION OF PERMANENT TYPE II SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 7/23/15 PLATE NO. A4-3.20

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	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 4" or 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

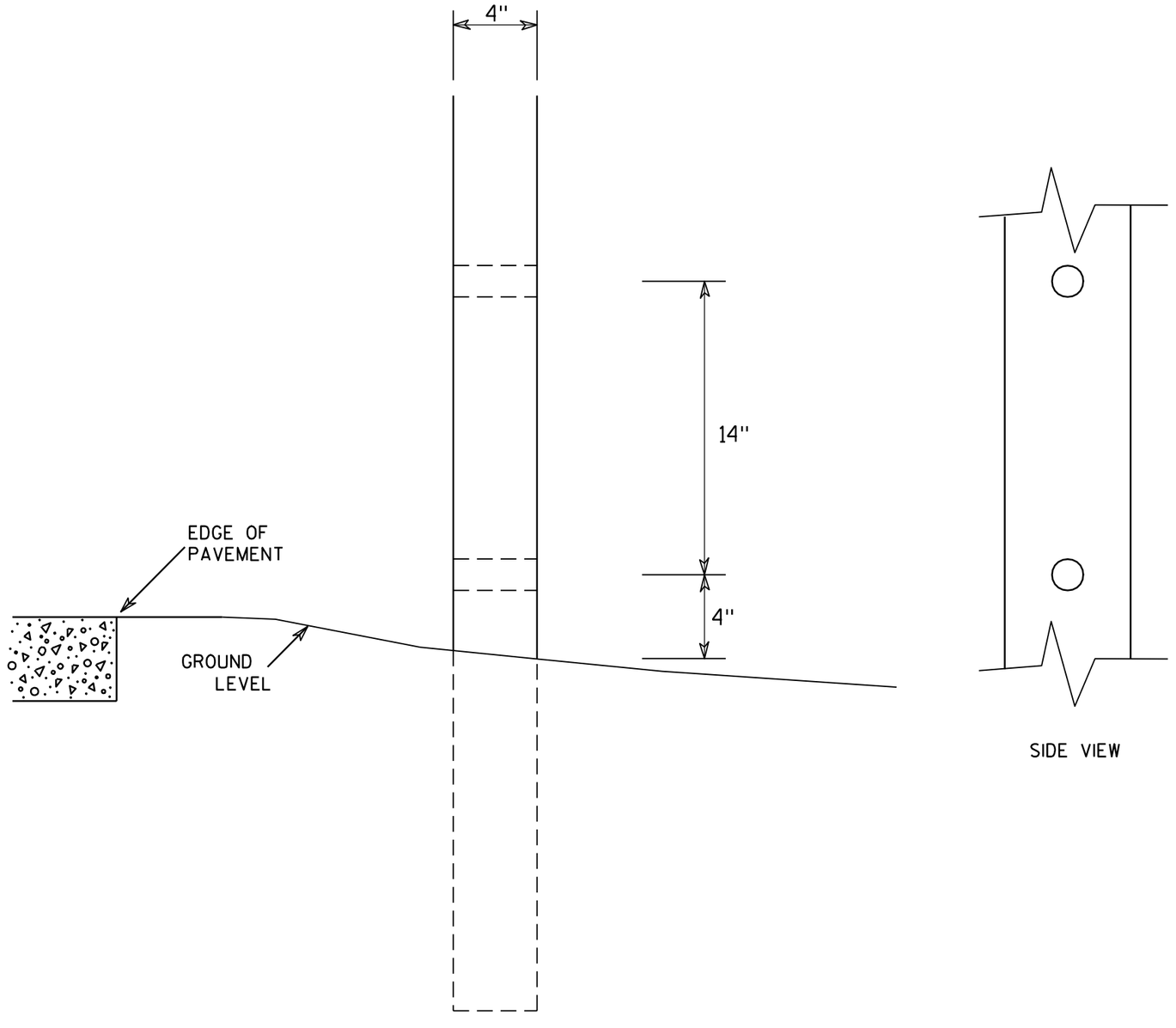
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
For State Traffic Engineer

DATE 8/11/16 PLATE NO. A4-8.8

PROJECT NO: SHEET NO: E

FILE NAME : C:\CADfiles\Projects\tr_stdplate\A48.DGN PLOT DATE : 11-AUG-2016 11:35 PLOT BY : $$ plotuser $$



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.

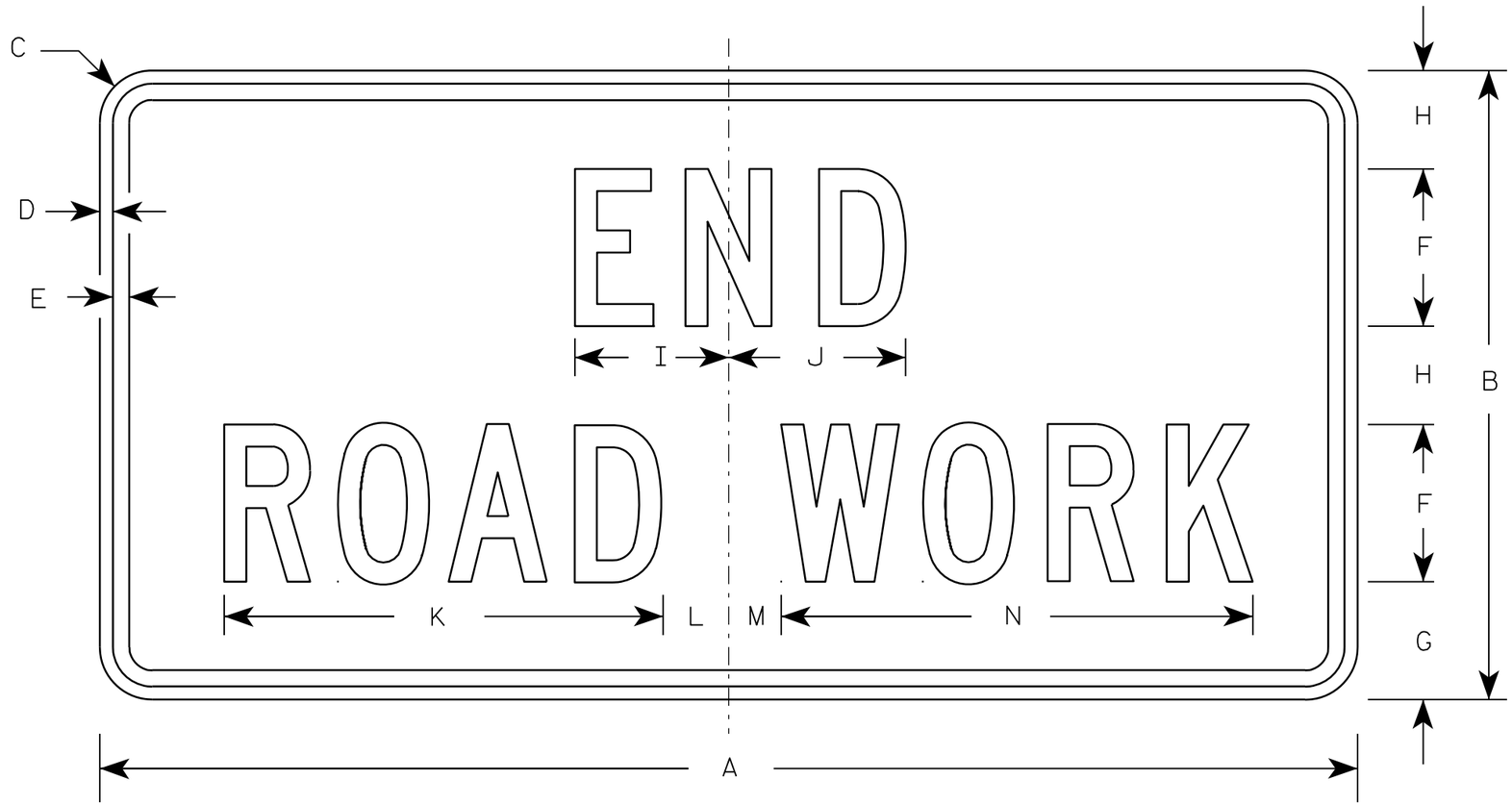
4 X 6 WOOD POST MODIFICATIONS

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: 106	E



G20-2A

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Message Series - 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.

Metric equivalent for this sign is:

SIZE	
1	900 mm X 450 mm
2	1200 mm X 600 mm
3	1200 mm X 600 mm
4	1200 mm X 600 mm
5	1200 mm X 600 mm

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.	Area m2
1	36	18	1 1/8	3/8	1/2	4	3 3/4	2 1/2	4 1/8	4 1/8	11 1/8	2	1	12 1/8													4.5	0.41
2	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 7/8	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2													8.0	0.72
3	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 7/8	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2													8.0	0.72
4	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 7/8	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2													8.0	0.72
5	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 7/8	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2													8.0	0.72

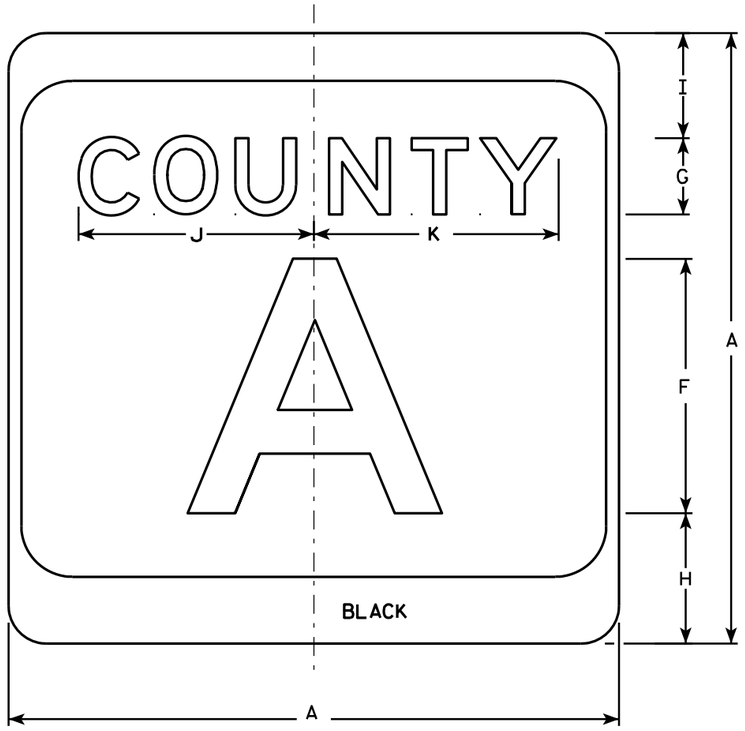
STANDARD SIGN
G20-2A

WISCONSIN DEPT OF TRANSPORTATION

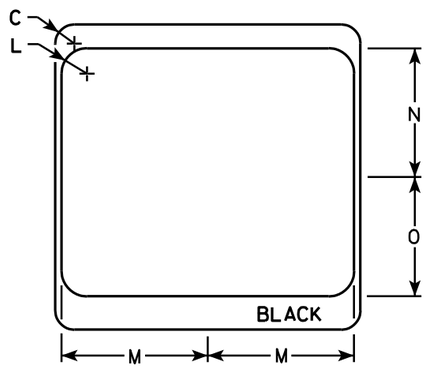
APPROVED Matthew R Rauch
for State Traffic Engineer

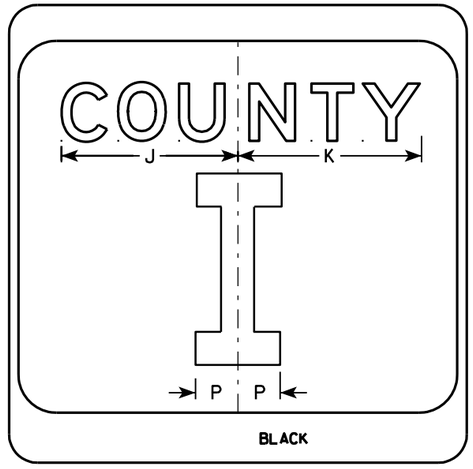
DATE 9/30/09 PLATE NO. G20-2A.8

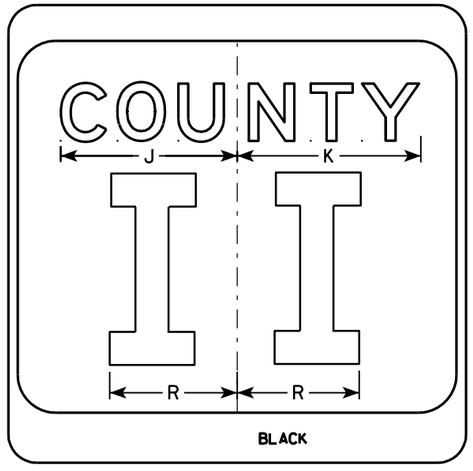
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 107	E



M1-5A







NOTES

1. Sign is Type II - see Note 7 - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White & Black - See Note 7
   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. Message Series E for 1 letter.
   Message Series D for 2 letters unless message is too big then Series C.
   Message Series C for 3 letters unless message is too big then Series B.
6. Substitute appropriate letters & optically center to achieve proper balance.
7. Permanent Signs
   Background - Type H Reflective
   Detour or temporary Signs
   Background - Reflective

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24		1 1/2			10	3	5 1/8	4 1/8	9 1/4	9 5/8	2	11 1/2	10 1/8	9 3/8	2 1/4		6 5/8									4.0
3	36		2 1/4			16	4	7 5/8	5 5/8	12 1/4	12 7/8	3	17 1/8	15 1/4	14	3 3/8		10									9.0
4	36		2 1/4			16	4	7 5/8	5 5/8	12 1/4	12 7/8	3	17 1/8	15 1/4	14	3 3/8		10									9.0
5	36		2 1/4			16	4	7 5/8	5 5/8	12 1/4	12 7/8	3	17 1/8	15 1/4	14	3 3/8		10									9.0

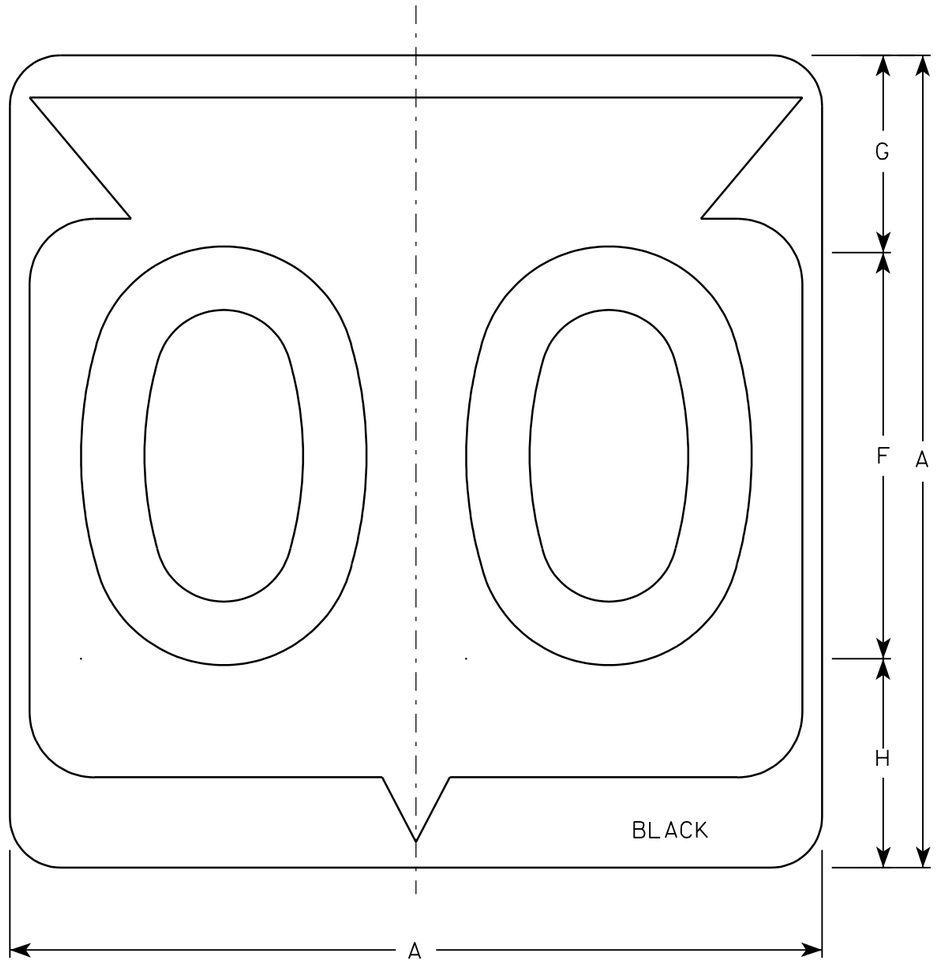
CTH MARKER
M1-5A FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 9/27/11 PLATE NO. M1-5A.8

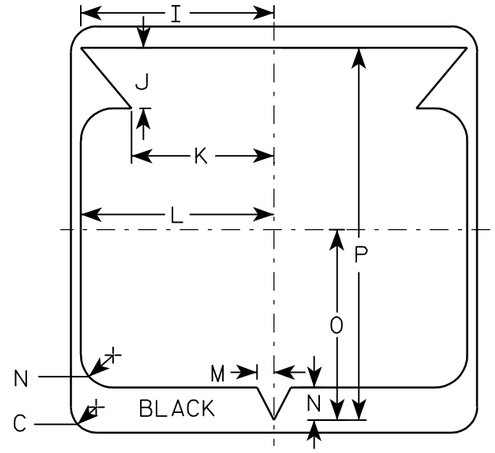
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 108 | E



M1-6

NOTES

1. Sign is Type II - See Note 6 - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White & Black - See Note 6
   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. Substitute appropriate Series numerals and adjust spacing as per plate A10-1.
6. Permanent Signs
   Background - Type H Reflective
   Detour or temporary Signs
   Background - Reflective



Metric equivalent for this sign is:

SIZE	
1	
2	600 mm X 600 mm
3	900 mm X 900 mm
4	900 mm X 900 mm
5	900 mm X 900 mm

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.	Area m2
1																												
2	24		1 1/2			12	5 1/2	6 1/2	10 1/4	2 1/2	8 7/8	11 1/2	1	1 7/8	11 1/4	21 7/8											4.0	.36
3	36		2 1/4			18	8 3/4	9 1/4	15 3/8	5 3/8	12 5/8	17 1/8	1 1/2	2 7/8	16 7/8	33											9.0	.81
4	36		2 1/4			18	8 3/4	9 1/4	15 3/8	5 3/8	12 5/8	17 1/8	1 1/2	2 7/8	16 7/8	33											9.0	.81
5	36		2 1/4			18	8 3/4	9 1/4	15 3/8	5 3/8	12 5/8	17 1/8	1 1/2	2 7/8	16 7/8	33											9.0	.81

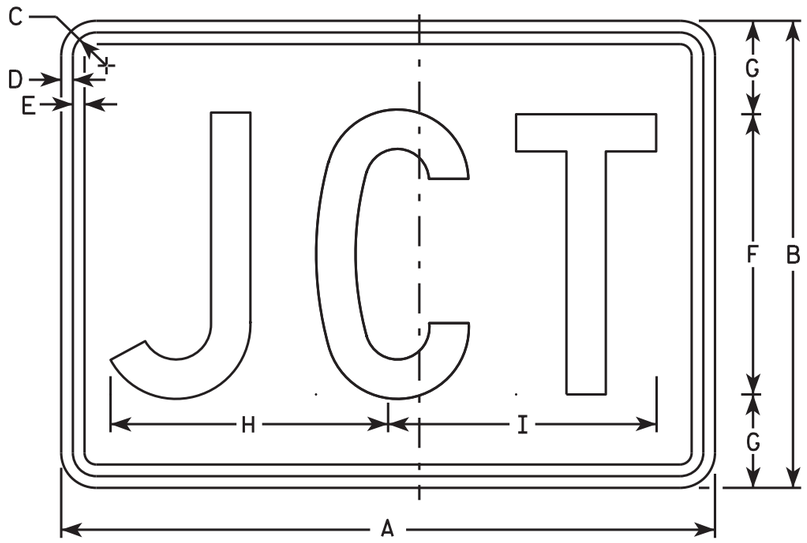
STATE ROUTE MARKER M1-6 FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

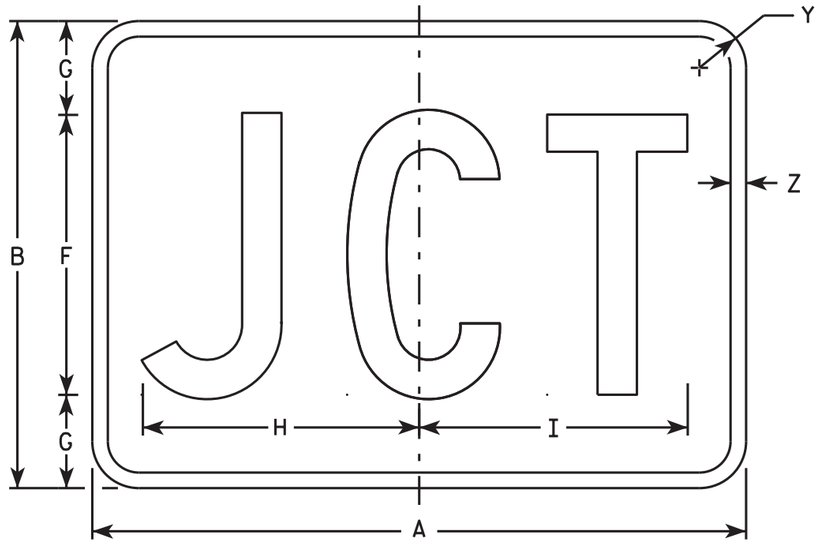
APPROVED Chester J Spang for State Traffic Engineer

DATE 3/20/02 PLATE NO. M1-6.9

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 109	E



M2-1
MM2-1
MP2-1



MB2-1
MK2-1
MN2-1
MR2-1

NOTES

1. Sign is Type II - Type H
2. Color:
   Background - See note 5
   Message - See note 5
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. M2-1 Background - White
   Message - Black
   MB2-1 Background - Blue
   Message - White
   MK2-1 Background - Green
   Message - White
   MM2-1 Background - White
   Message - Green
   MN2-1 Background - Brown
   Message - White
   MP2-1 Background - White
   Message - Blue
   MR2-1 Background - Brown
   Message - Yellow

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	21	15	1 1/8	3/8	3/8	9	3	8 7/8	8 5/8																1 1/2	1/2	2.20
3	30	21	1 1/8	3/8	3/8	13	4	12 7/8	12 3/8																1 1/2	1/2	4.40
4	30	21	1 1/8	3/8	3/8	13	4	12 7/8	12 3/8																1 1/2	1/2	4.40
5	30	21	1 1/8	3/8	3/8	13	4	12 7/8	12 3/8																1 1/2	1/2	4.40

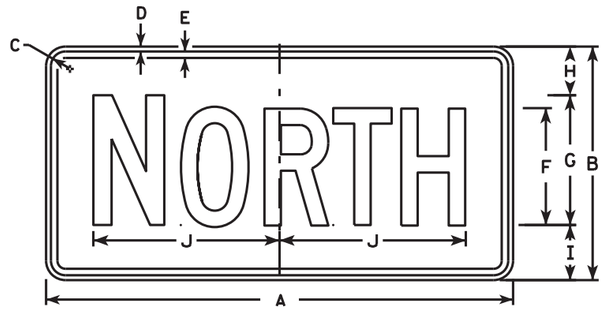
STANDARD SIGN
M2-1

WISCONSIN DEPT OF TRANSPORTATION

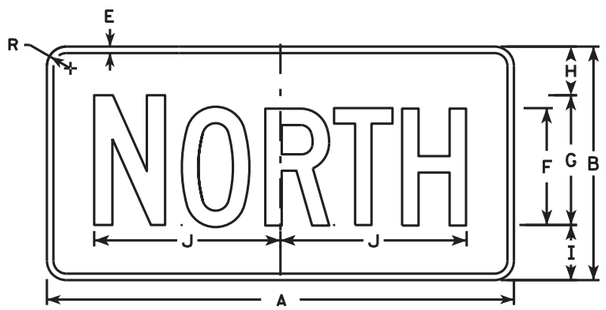
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 10/15/15 PLATE NO. M2-1.12

PROJECT NO: | HWY: | COUNTY: | SHEET NO. 110 | E



M3-1
MM3-1
MP3-1



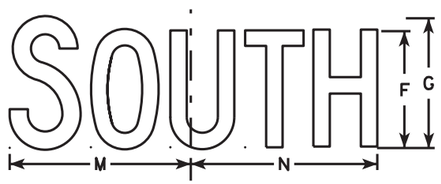
MB3-1
MK3-1
MN3-1



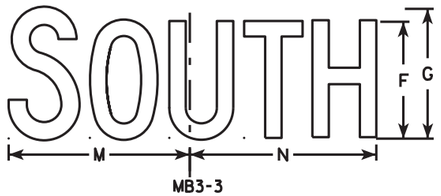
M3-2
MM3-2
MP3-2



MB3-2
MK3-2
MN3-2



M3-3
MM3-3
MP3-3



MB3-3
MK3-3
MN3-3



M3-4
MM3-4
MP3-4



MB3-4
MK3-4
MN3-4

NOTES

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

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

STANDARD SIGNS
M3-1 thur M3-4
SERIES

WISCONSIN DEPT OF TRANSPORTATION

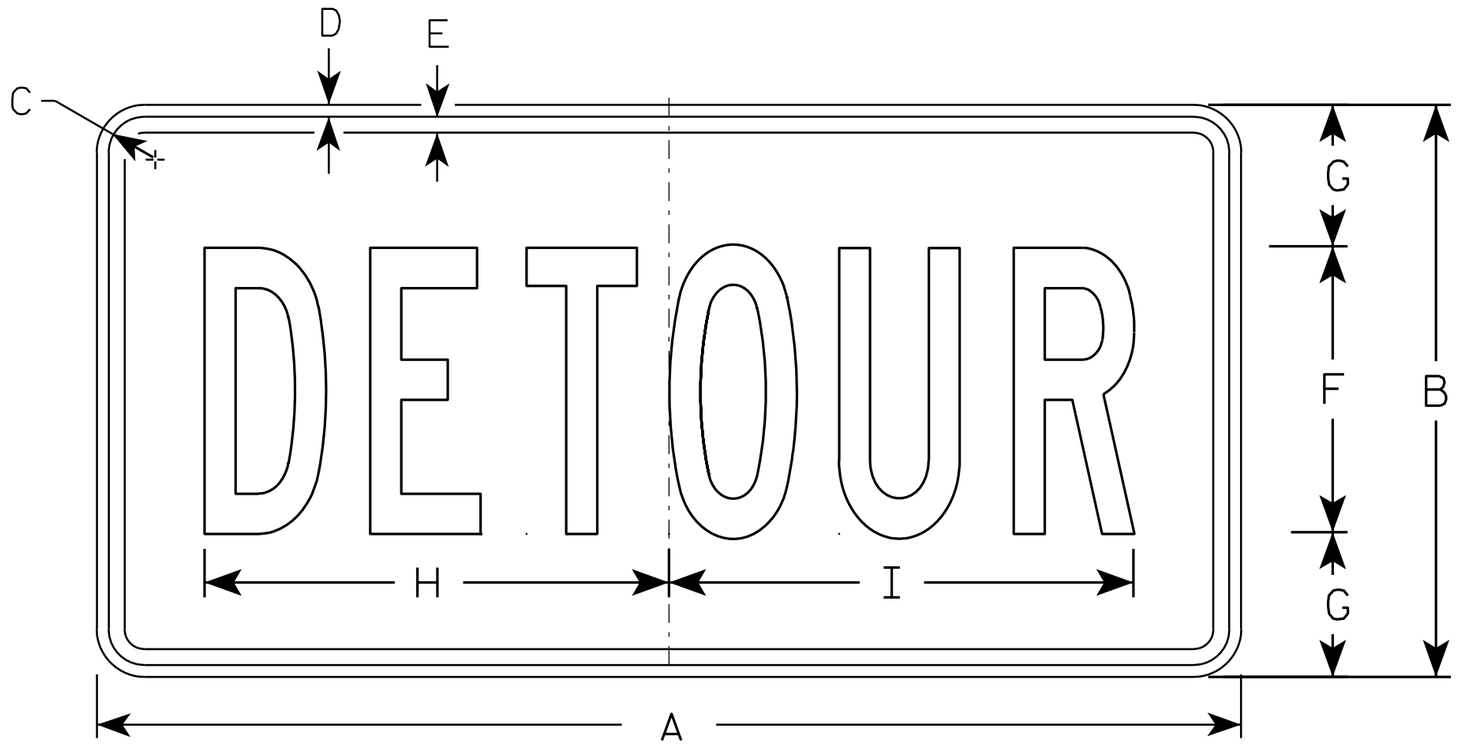
APPROVED Matthew R Rauch for State Traffic Engineer

DATE 10/15/15 PLATE NO. M3-1.14

PROJECT NO: | HWY: | COUNTY: | SHEET NO. 111 | E

7

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\M31.DGN PLOT DATE : 15-OCT-2015 12:16 PLOT BY : ss...plotuser...ss PLOT NAME : PLOT SCALE : 18.607113:1.000000
WISDOT/CADDS SHEET 42



M4-8

NOTES

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

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

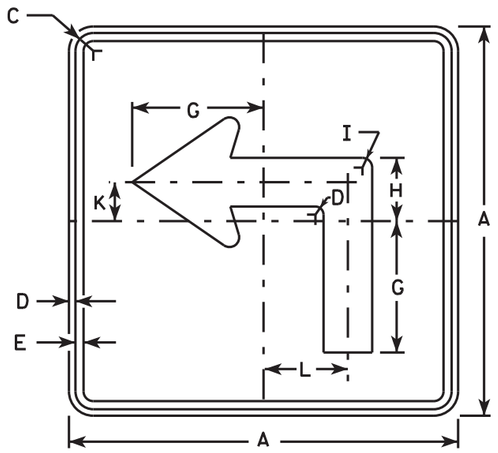
STANDARD SIGN
M4-8

WISCONSIN DEPT OF TRANSPORTATION

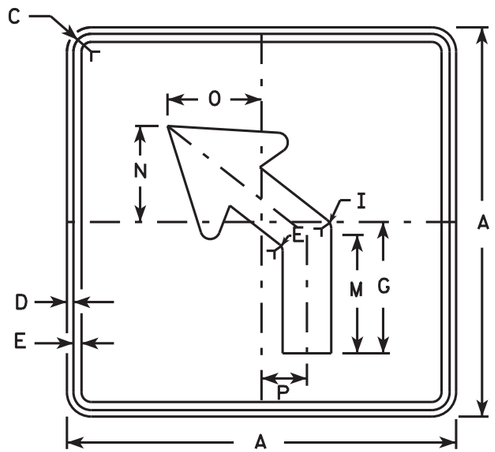
APPROVED Matthew R Rauch
for State Traffic Engineer

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

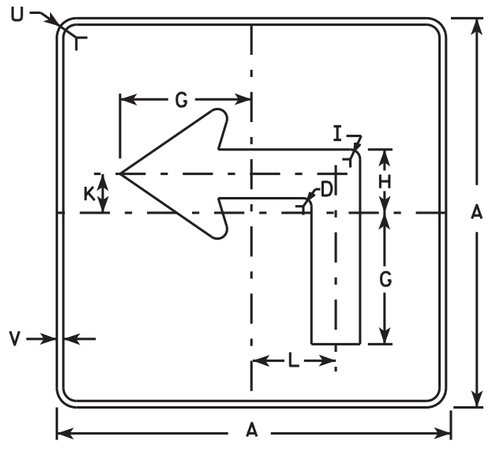
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 112	E



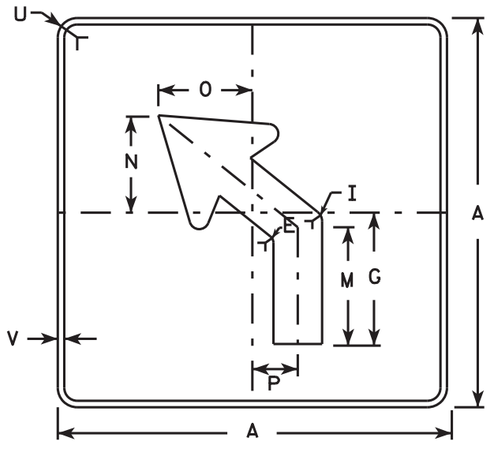
M5-1L
MM5-1L
MO5-1L
MP5-1L



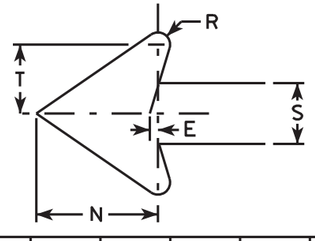
M5-2L
MM5-2L
MO5-2L
MP5-2L



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



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



NOTES

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

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

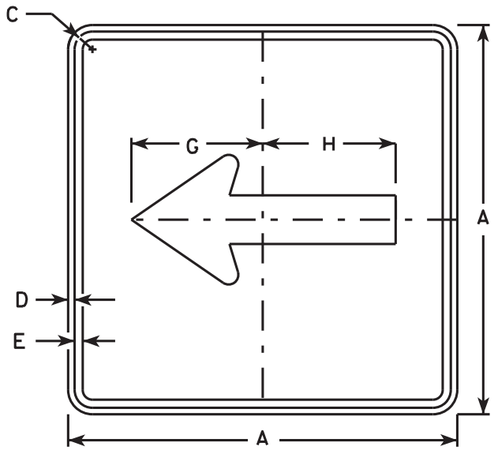
STANDARD SIGN
M5-1 & M5-2

WISCONSIN DEPT OF TRANSPORTATION

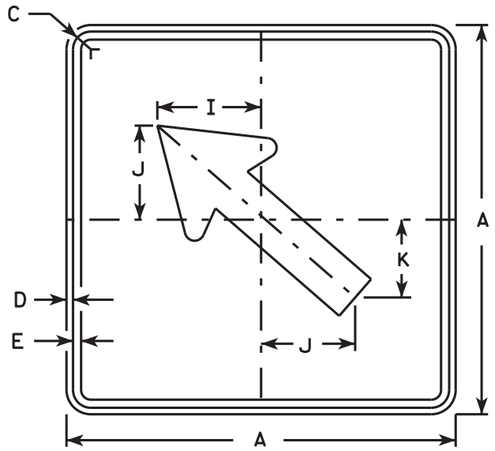
APPROVED Matthew R Rauch
for State Traffic Engineer

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

PROJECT NO: | HWY: | COUNTY: | SHEET NO. 113 | E



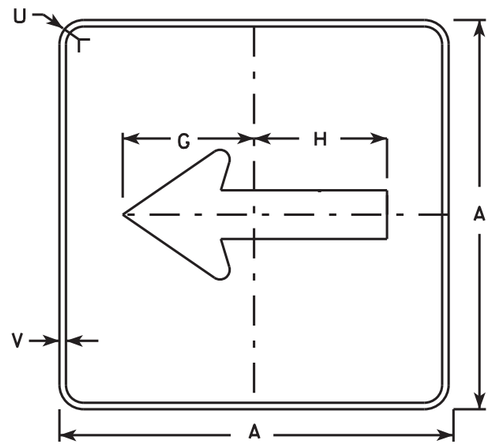
M6-1
MM6-1
MO6-1
MP6-1



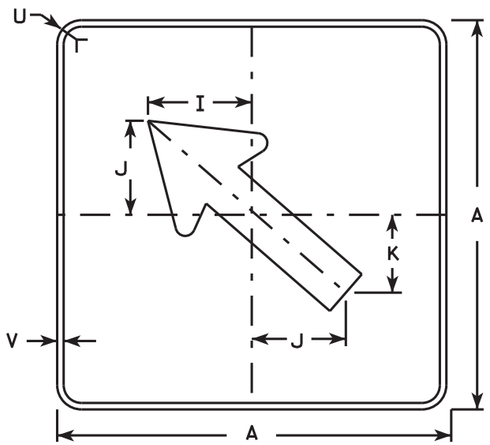
M6-2
MM6-2
MO6-2
MP6-2

NOTES

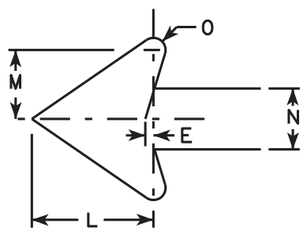
1. Signs are Type II - Type H except as Shown
2. Color:
   Background - See note 4
   Message - See note 4
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. M6-1 and M6-2 Background - White
   Message - Black
   MB6-1 and MB6-2 Background - Blue
   Message - White
   MK6-1 and MK6-2 Background - Green
   Message - White
   MM6-1 and MM6-2 Background - White
   Message - Green
   MN6-1 and MN6-2 Background - Brown
   Message - White
   MO6-1 and MO6-2 Background - Orange - Type F Reflective
   Message - Black
   MP6-1 and MP6-2 Background - White
   Message - Blue
   MR6-1 and MR6-2 Background - Brown
   Message - Yellow



MB6-1
MK6-1
MN6-1
MR6-1



MB6-2
MK6-2
MN6-2
MR6-2



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

STANDARD SIGN
M6-1 & M6-2
SERIES

WISCONSIN DEPT OF TRANSPORTATION

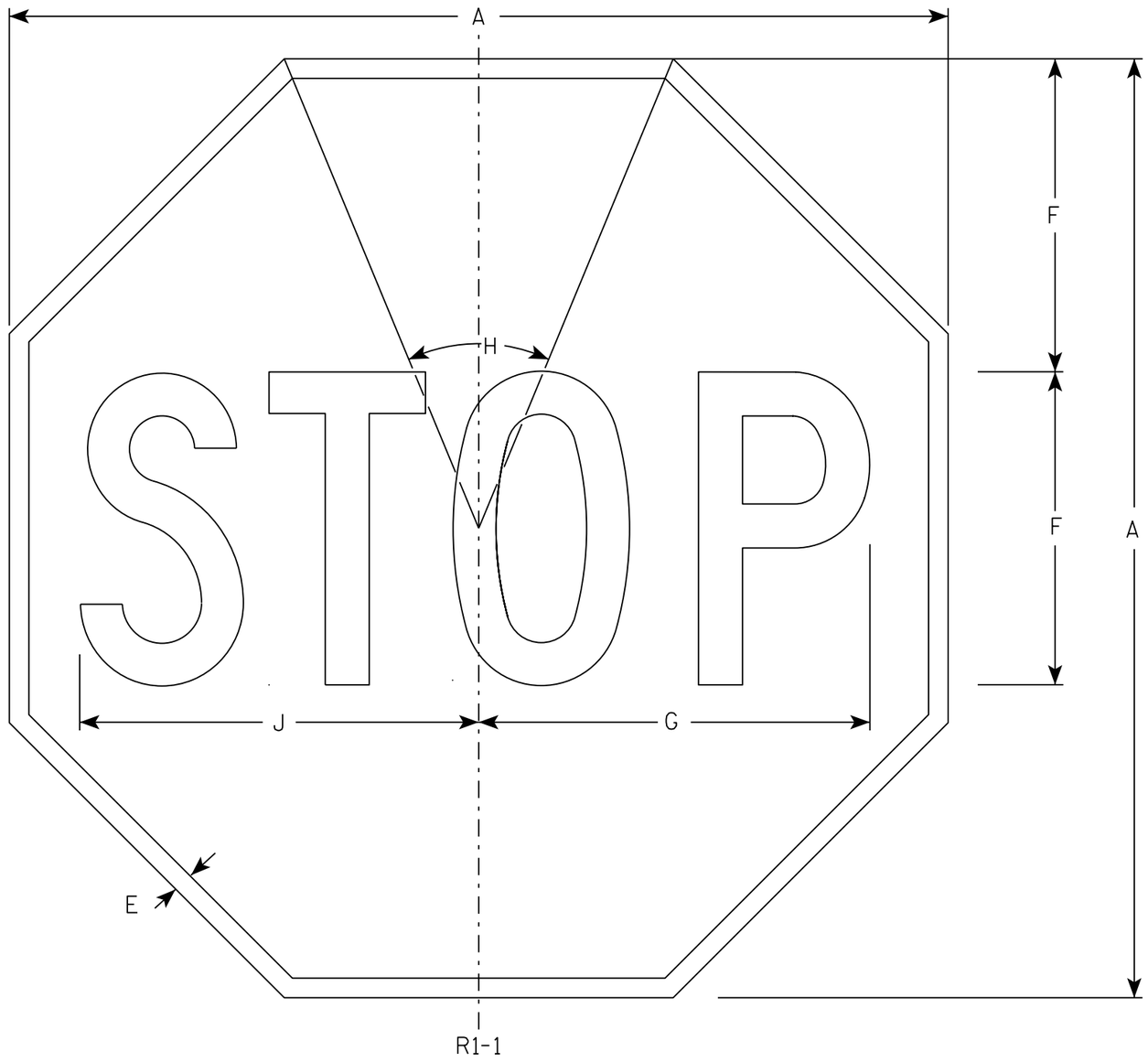
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 10/15/15 PLATE NO. M6-1.15

PROJECT NO: | HWY: | COUNTY: | SHEET NO. 114 | E

7

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\M61.DGN PLOT DATE : 15-OCT-2015 13:17 PLOT BY : ss...plotuser...ss PLOT NAME : PLOT SCALE : 18.607113:1.000000
WISDOT/CADDS SHEET 42



NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
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
7	12				1/4	4	5	45°		5 1/8																	0.78

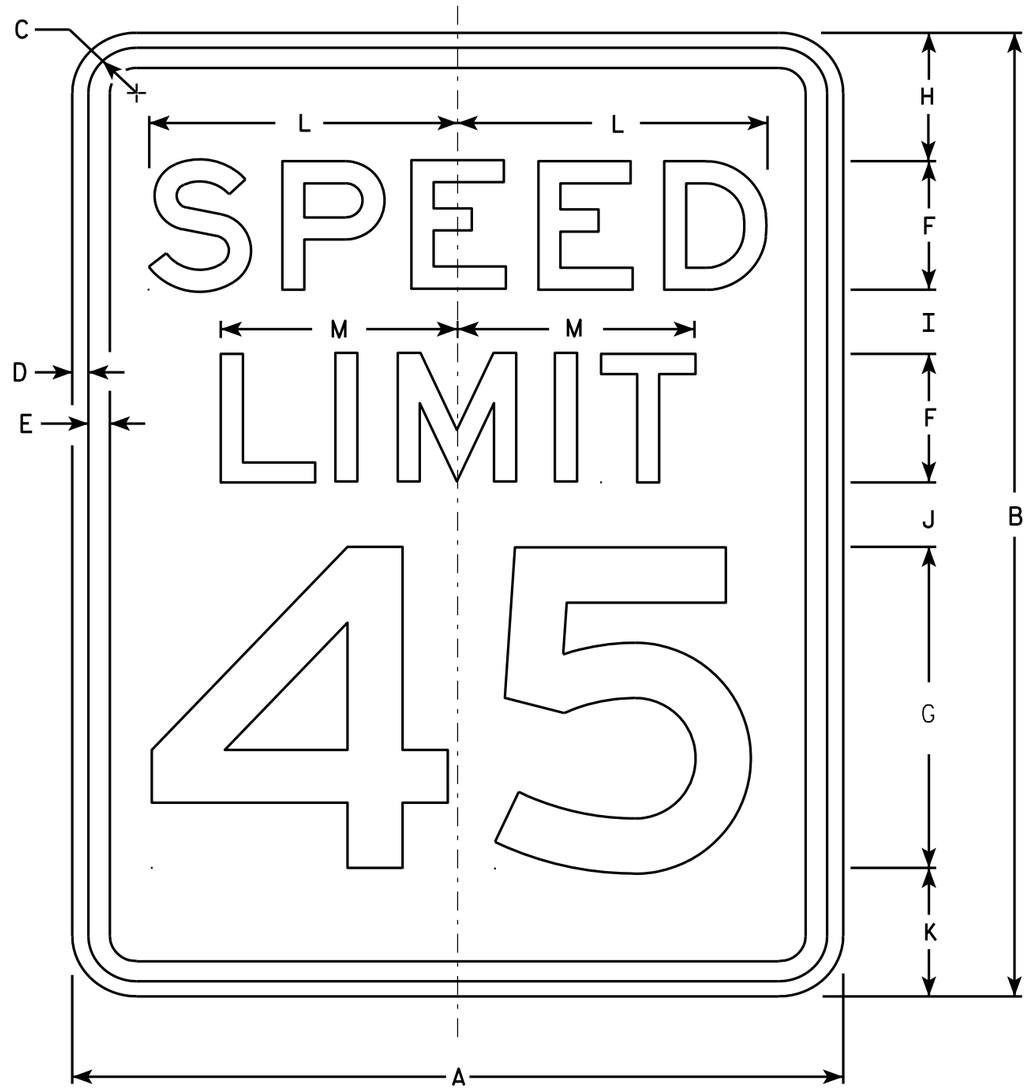
STANDARD SIGN
R1-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/12/15 PLATE NO. R1-1.13

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



R2-1

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - E
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Substitute appropriate numerals and optically adjust spacing to achieve proper balance.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	18	24	1 1/8	3/8	1/2	3	8	3	2	2	3	7 1/4	5 1/2														3.0
2S	24	30	1 1/8	3/8	1/2	4	10	3	2 1/4	3 3/8	3 3/8	9 5/8	7 3/8														5.0
2M	30	36	1 3/8	1/2	5/8	5	12	5	2 1/2	2 1/2	4	12	9 1/4														7.5
3	36	48	1 3/8	1/2	5/8	6	14	6	5	5	6	14 3/8	11														12.0
4	36	48	1 3/8	1/2	5/8	6	14	6	5	5	6	14 3/8	11														12.0
5	48	60	2 1/4	3/4	1	8	20	6	4 1/2	6 3/4	6 3/4	19 1/4	14 5/8														20.0

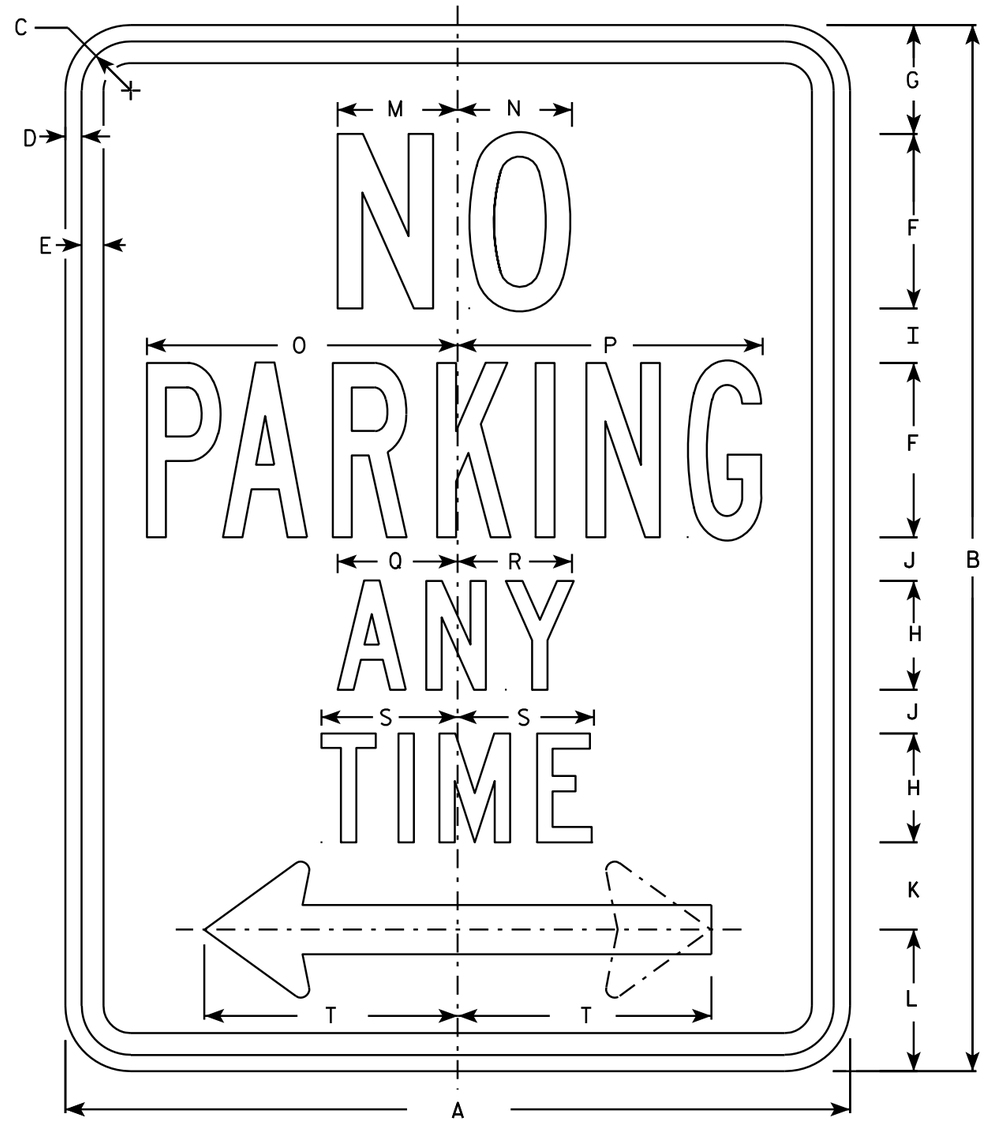
STANDARD SIGN
R2-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/26/10 PLATE NO. R2-1.13

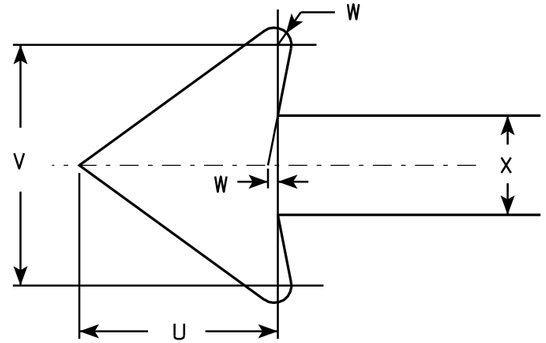
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 116 | E



R7-1

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Red
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, 3 and 4 are series C, line 2 is series B.
6. R7-1D (double arrow)
   R7-1L (left arrow)
   R7-1R (right arrow)



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	12	18	1 1/8	3/8	3/8	3	1 7/8	2	7/8	5/8	1 1/2	2 1/2	2	2	4 7/8	4 7/8	2 1/4	2 1/8	2 1/2	3 7/8	1 1/2	1 3/4	1/8	3/4			1.5
2S	18	24	1 1/8	3/8	1/2	4	2 1/2	2 1/2	1 1/4	1	2	3 1/4	2 3/4	2 5/8	7 1/8	7	2 3/4	2 5/8	3 1/8	5 7/8	2 1/4	2 5/8	1/4	1 1/8			3.0
2M	24	30	1 1/8	3/8	1/2	5	3	3	2	1 1/4	2 1/2	4	3 1/4	3 3/8	9 1/4	9 1/4	3 1/4	3 1/4	3 3/4	7 3/4	3	3 1/2	1/4	1 1/2			5.0
3	24	30	1 1/8	3/8	1/2	5	3	3	2	1 1/4	2 1/2	4	3 1/4	3 3/8	9 1/4	9 1/4	3 1/4	3 1/4	3 3/4	7 3/4	3	3 1/2	1/4	1 1/2			5.0
4																											
5																											

STANDARD SIGN
R7-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/31/2011 PLATE NO. R7-1.9

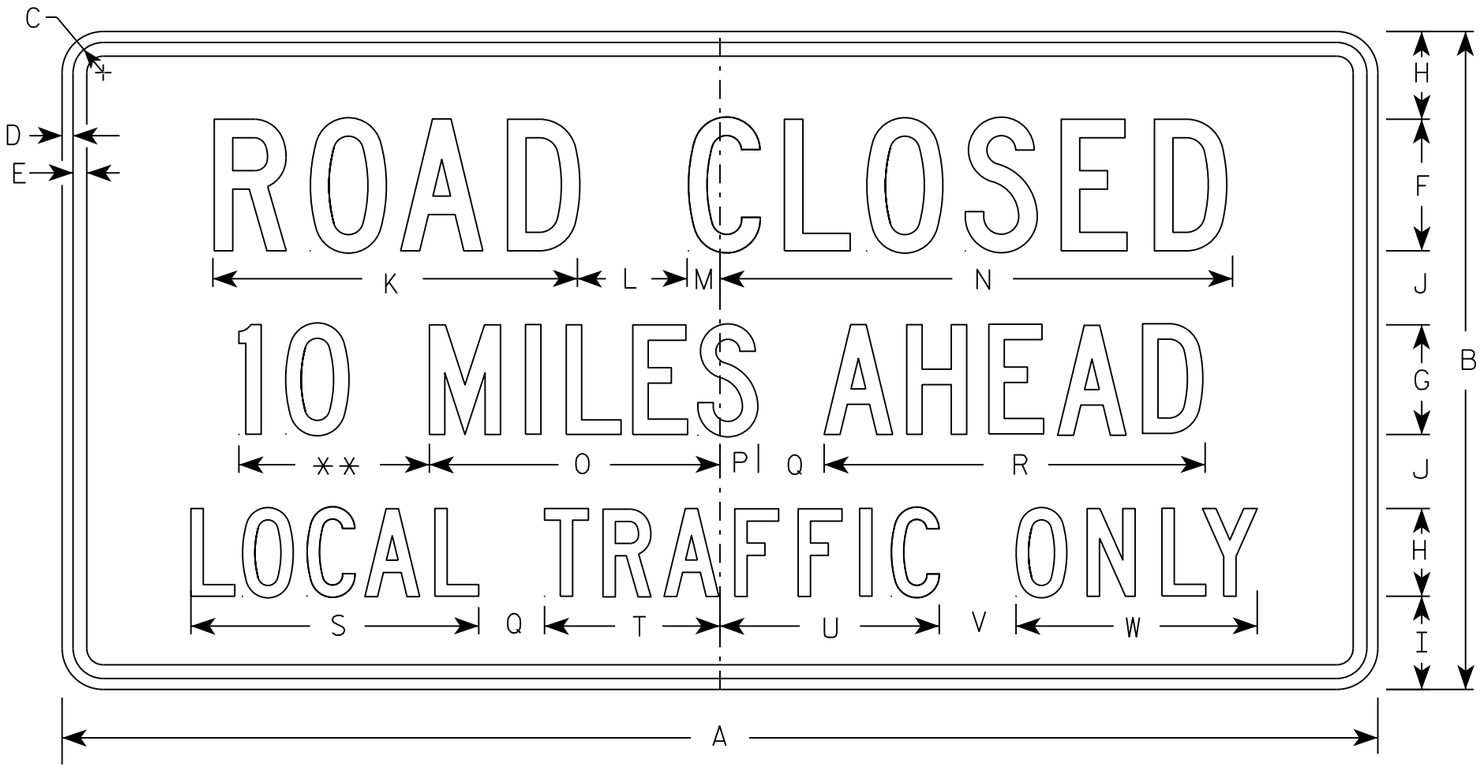
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 117 | E

FILE NAME : C:\Users\PROJECTS\tr_stdplate\R71.DGN PLOT DATE : 31-MAR-2011 09:20 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 3.476110:1.000000

WISDOT/CADDS SHEET 42

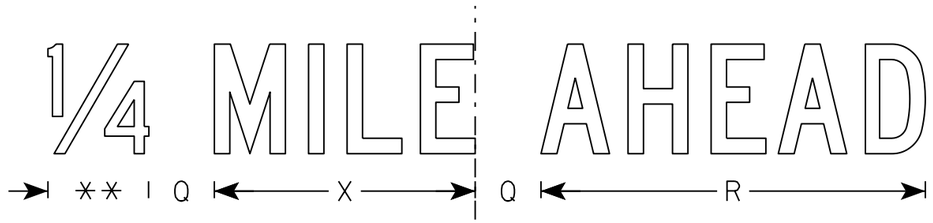
NOTES

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



R11-3

** See Note 5



SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36	18	1 3/8	1/2	5/8	4	3	2 1/2	2	2	11 1/8	3	1 1/8	15 1/4	8	1 1/2	2	10 3/4	8 3/8	4 3/4	6 1/2	2	6 3/4	7 1/8			4.5
2S	60	30	1 3/8	1/2	5/8	6	5	4	4 1/4	3 3/8	16 5/8	5	1 1/2	23	13 1/4	1 3/4	3	17 3/8	13 1/8	8	10	3 1/2	11	11 7/8			12.5
2M	60	30	1 3/8	1/2	5/8	6	5	4	4 1/4	3 3/8	16 5/8	5	1 1/2	23	13 1/4	1 3/4	3	17 3/8	13 1/8	8	10	3 1/2	11	11 7/8			12.5
3																											
4																											
5																											

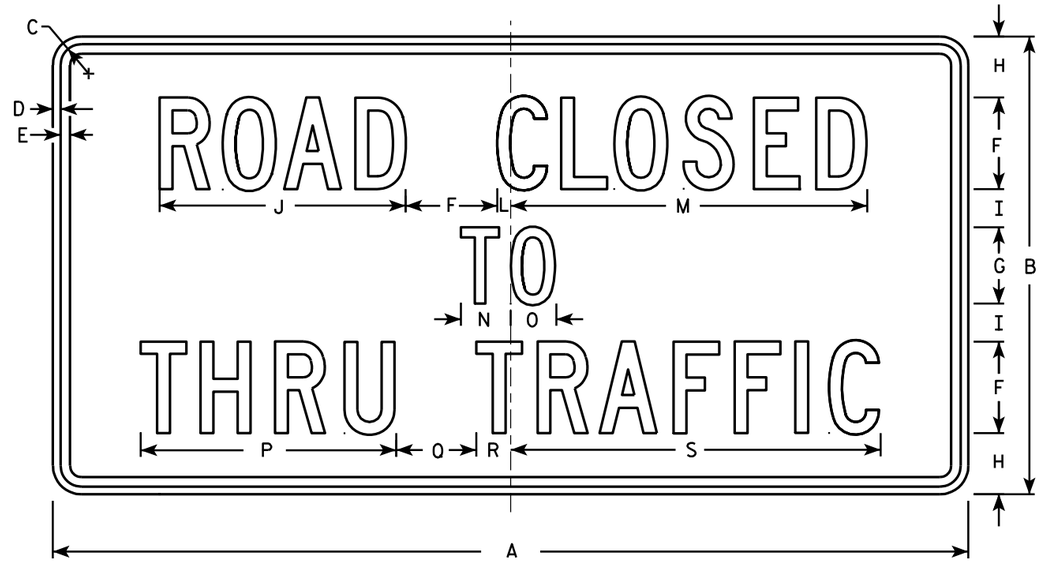
STANDARD SIGN
R11-3

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/15/17 PLATE NO. R11-3.8

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 118	E



R11-4

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
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 3/8	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 3/8	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

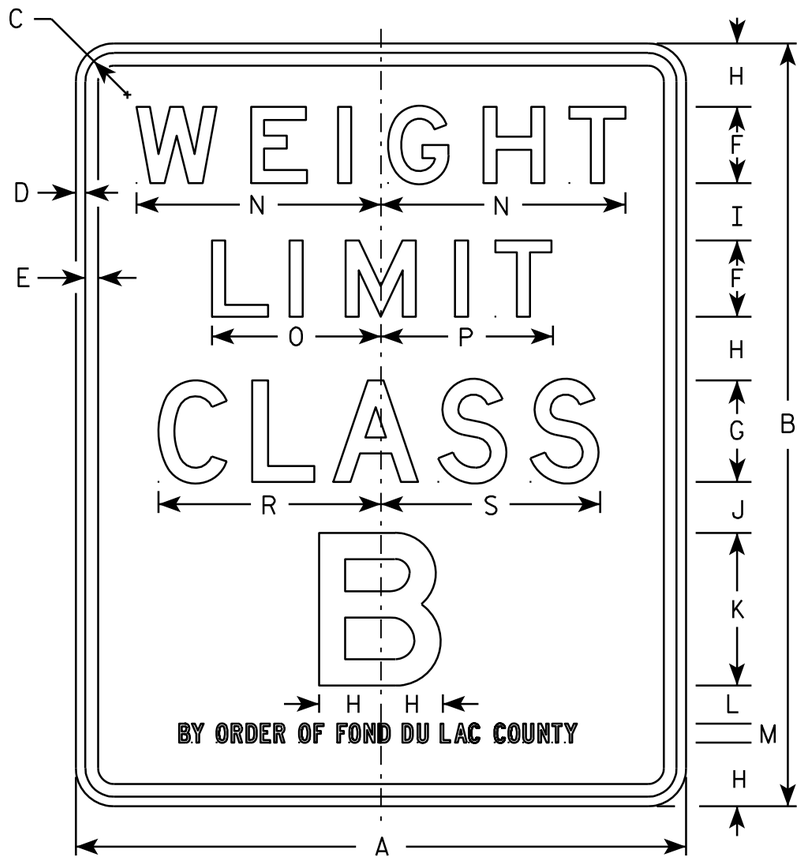
APPROVED Matthew R Rauch for State Traffic Engineer

DATE 4/1/11 PLATE NO. R11-4.3

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 119 | E

7

FILE NAME : C:\Users\PROJECTS\tr_stdplate\R114.DGN PLOT DATE : 01-APR-2011 14:11 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 9.931739:1.000000 WISDOT/CADDS SHEET 42



R12-53

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   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, 2 & 4 are Series E.
   Line 3 is Series D.
   Line 5 is Series C.
6. Line 5 of the sign shall vary with the name of the maintaining authority.

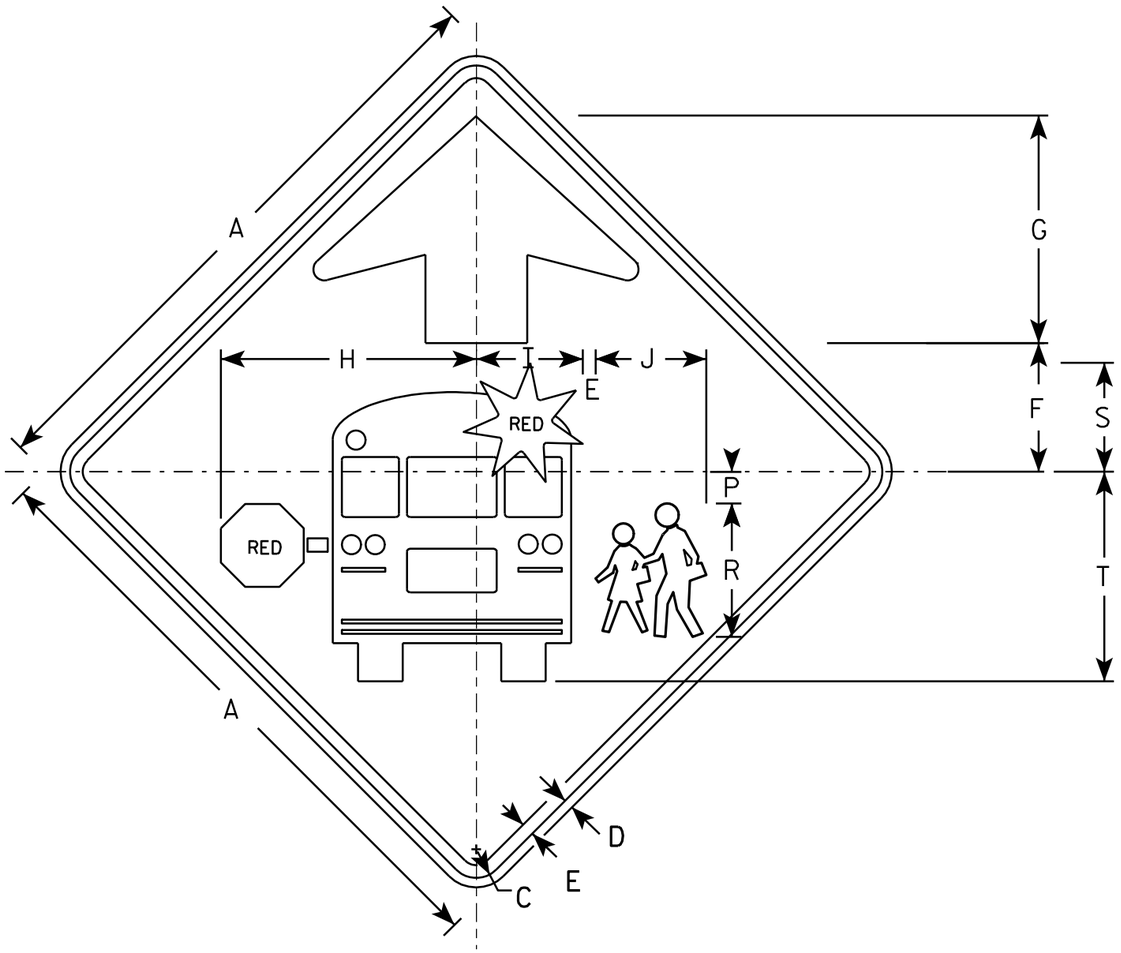
SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	24	30	1 1/8	3/8	1/2	3	4	2 1/2	2 1/4	2	6	1 1/2	3/4	9 5/8	6 5/8	6 3/4		8 3/4	8 5/8								5.0
2M	24	30	1 1/8	3/8	1/2	3	4	2 1/2	2 1/4	2	6	1 1/2	3/4	9 5/8	6 5/8	6 3/4		8 3/4	8 5/8								5.0
3																											
4																											
5																											

STANDARD SIGN
R12-53

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer
DATE 4/1/11 PLATE NO. R12-53.3

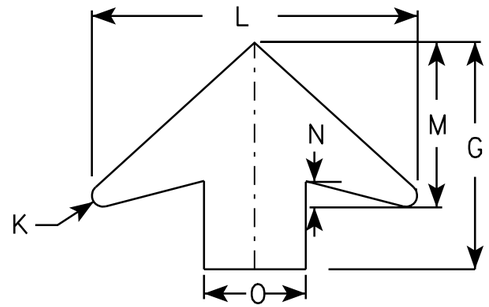
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 120 | E



S3-1

NOTES

1. All Signs Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - YELLOW-GREEN
   Message - BLACK except as noted
   Circles except PEDS- RED BACKGROUND
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



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 3/8	1/2	5/8	6 1/4	11 1/4	12 1/2	5 1/4	5 1/2	1/2	16	8	1 1/4	5	1 1/2		6 5/8	5 3/8	10 3/8							6.25
2	36		1 5/8	5/8	3/4	7 1/2	13 1/2	15 1/8	6 1/4	6 1/2	5/8	19 1/4	9 3/4	1 5/8	6	1 7/8		7 7/8	6 3/8	12 3/8							9.0
3	48		2 1/4	3/4	1	10	17 7/8	20 1/8	8 3/8	8 3/4	7/8	25 5/8	13	2	8	2 1/2		10 1/2	8 1/2	16 1/2							16.0
4	48		2 1/4	3/4	1	10	17 7/8	20 1/8	8 3/8	8 3/4	7/8	25 5/8	13	2	8	2 1/2		10 1/2	8 1/2	16 1/2							16.0
5																											

STANDARD SIGN
S3-1

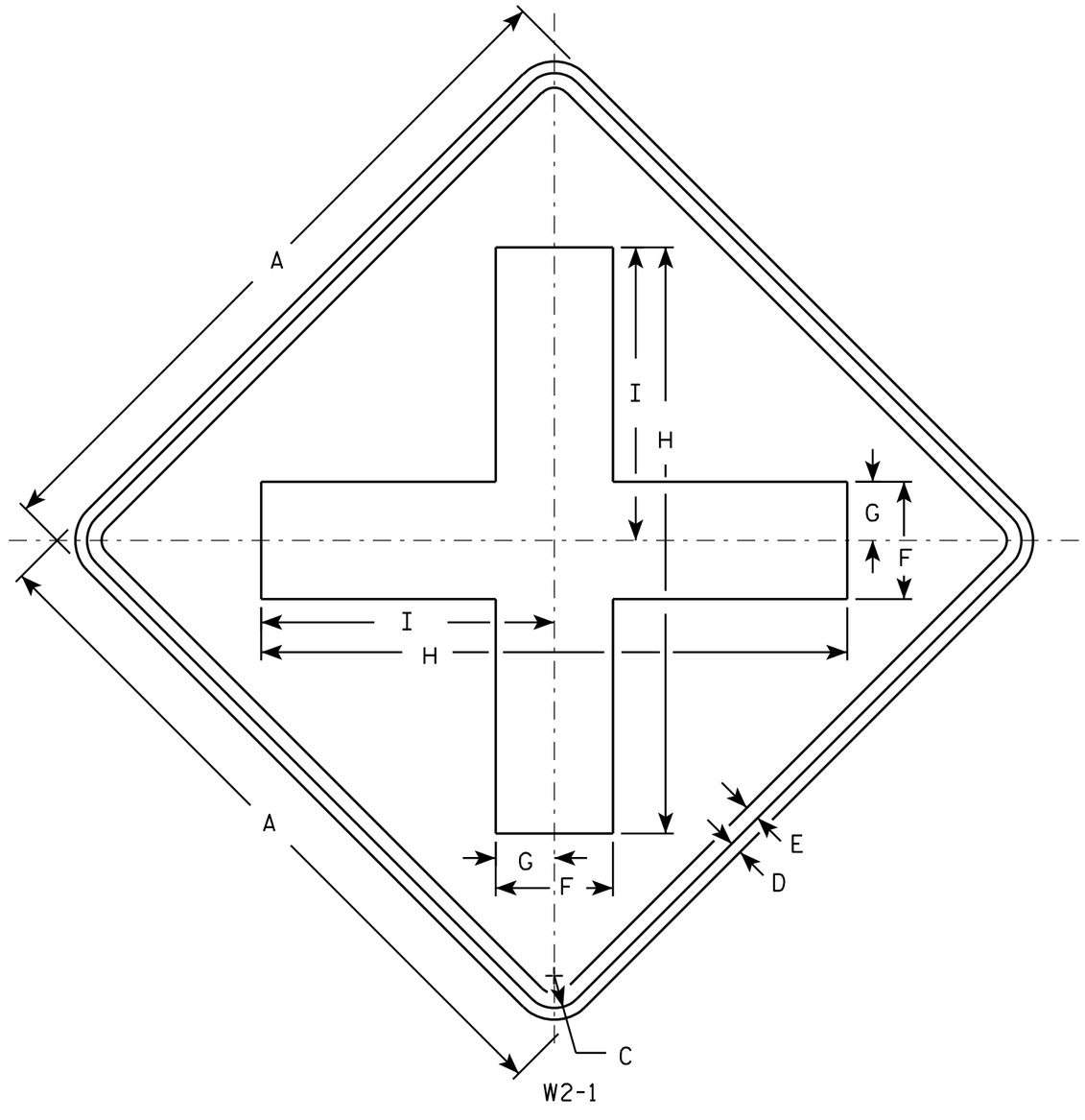
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 6/8/10 PLATE NO. S3-1.6

PROJECT NO:

SHEET NO: 121 E



NOTES

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

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	24		1 1/8	3/8	1/2	4	2	20	10																		4.0
2S	30		1 3/8	1/2	5/8	5	2 1/2	25	12 1/2																		6.25
2M	30		1 3/8	1/2	5/8	5	2 1/2	25	12 1/2																		6.25
3	36		1 5/8	5/8	3/4	6	3	30	15																		9.0
4	48		2 1/4	3/4	1	8	4	40	20																		16.0
5																											

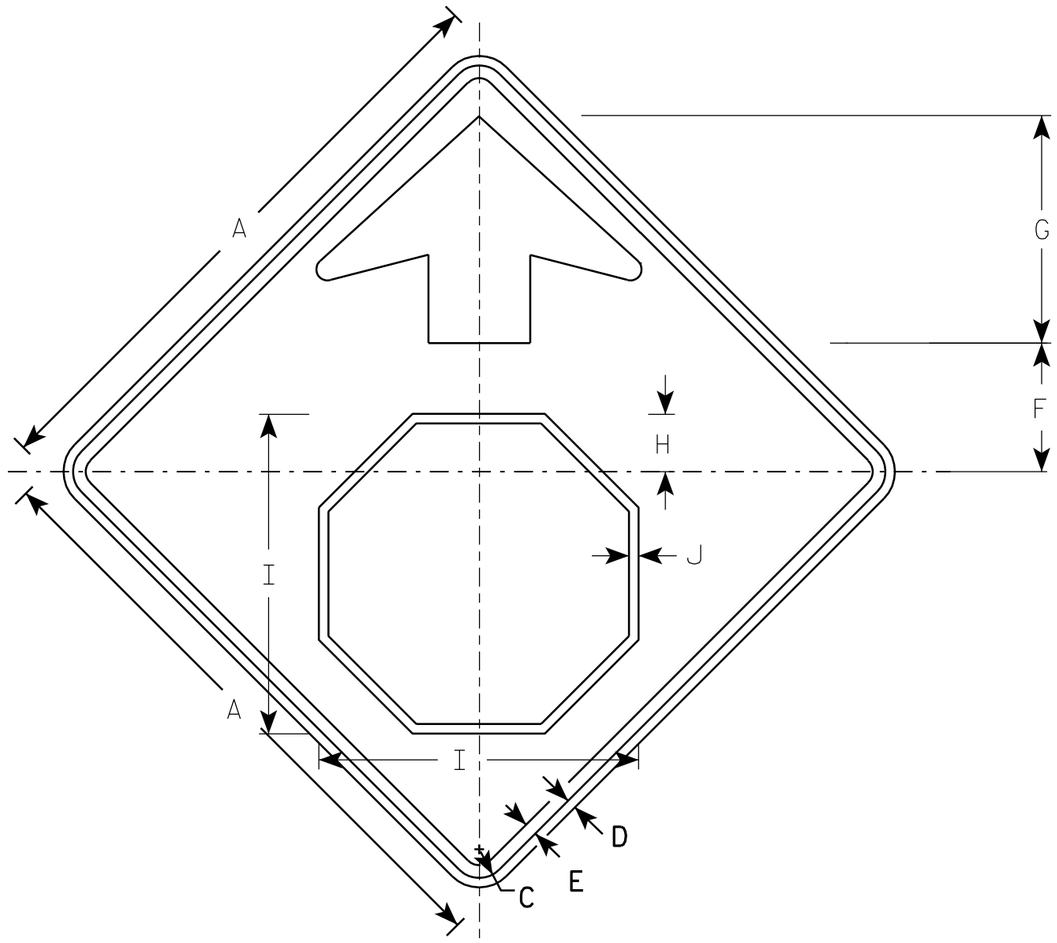
STANDARD SIGN
W2-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/29/12 PLATE NO. W2-1.9

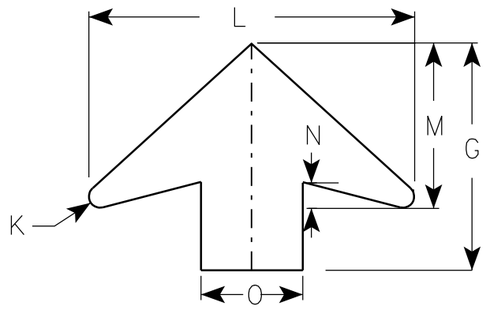
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 122	E



W3-1

NOTES

1. All Signs Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
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 3/8	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		1 5/8	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		1 5/8	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		1 5/8	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		2 1/4	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		2 1/4	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

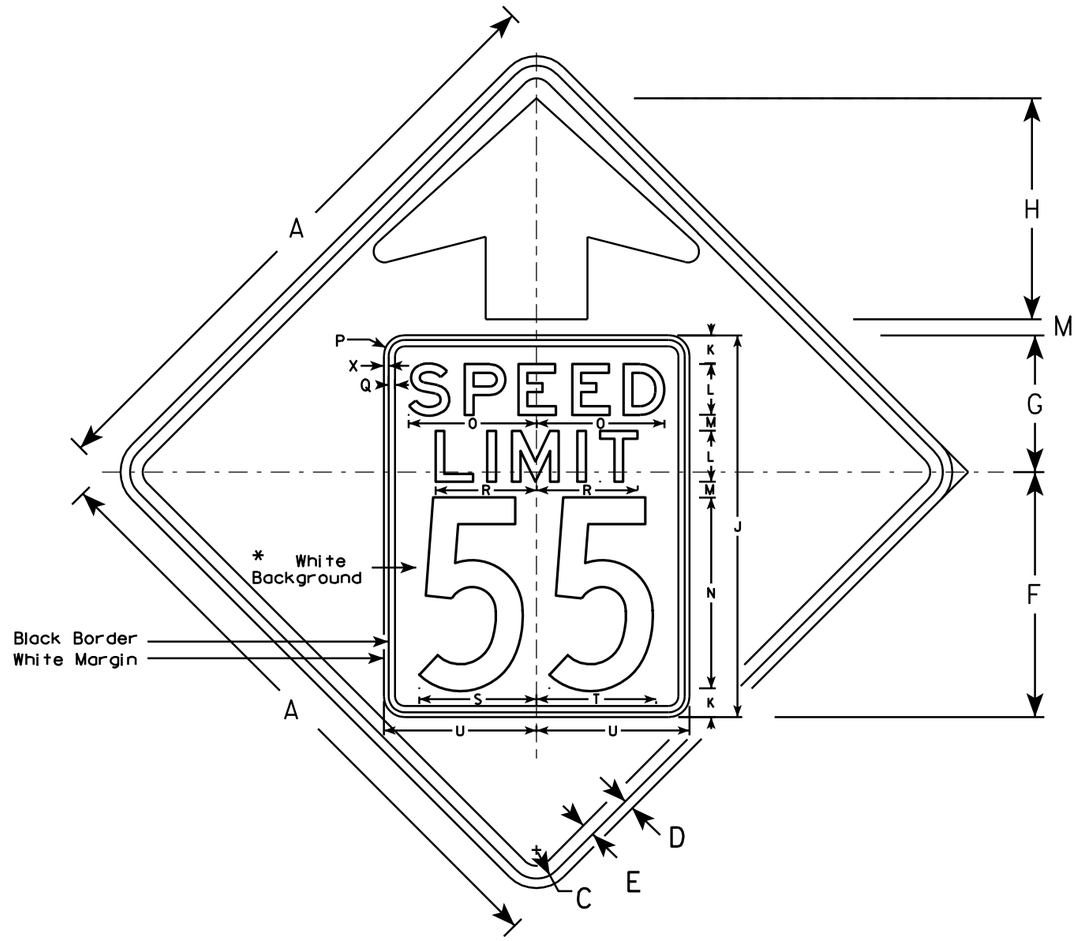
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 6/7/10 PLATE NO. W3-1.12

PROJECT NO:

SHEET NO: 123 E

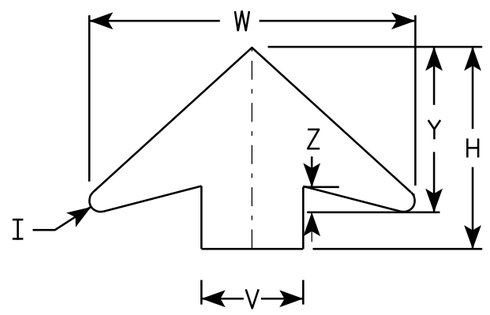


W3-5

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color: *
   Background - YELLOW*
   Message - BLACK
3. Message Series - C for numbers Series E for wording
4. Substitute appropriate numerals and optically adjust spacing to achieve proper balance

*Speed Limit Sign shall have a White 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																											
2S	36		1 5/8	5/8	3/4	14 1/2	9 1/2	11 1/2	5/8	24	2	3	1	12	7 1/8	1 1/2	3/8	5 3/4	7 1/4	7 1/8	9	6	19 1/4	3/8	9 3/4	1 5/8	9.0
2M	36		1 5/8	5/8	3/4	14 1/2	9 1/2	11 1/2	5/8	24	2	3	1	12	7 1/8	1 1/2	3/8	5 3/4	7 1/4	7 1/8	9	6	19 1/4	3/8	9 3/4	1 5/8	9.0
3	36		1 5/8	5/8	3/4	14 1/2	9 1/2	11 1/2	5/8	24	2	3	1	12	7 1/8	1 1/2	3/8	5 3/4	7 1/4	7 1/8	9	6	19 1/4	3/8	9 3/4	1 5/8	9.0
4	48		2 1/4	3/4	1	19 1/4	10 3/4	17 3/8	7/8	30	2 1/4	4	1 1/4	15	10	1 5/8	1/2	8	9 1/4	9 3/8	12	8	25 5/8	3/8	13	2	16.0
5	48		2 1/4	3/4	1	19 1/4	10 3/4	17 3/8	7/8	30	2 1/4	4	1 1/4	15	10	1 5/8	1/2	8	9 1/4	9 3/8	12	8	25 5/8	3/8	13	2	16.0

STANDARD SIGN
W3-5

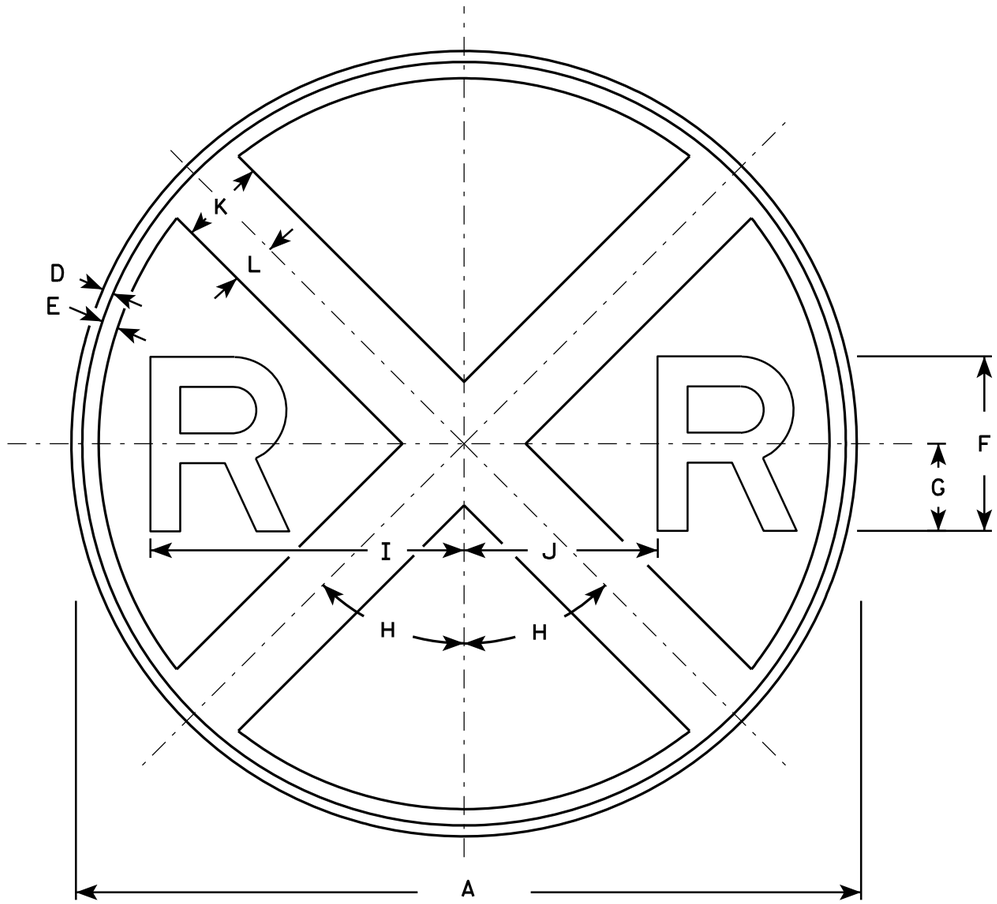
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/29/12 PLATE NO. W3-5.5

PROJECT NO:

SHEET NO: 124 E



W10-1

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   Message - Black
3. Message Series - E

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			3/8	5/8	7	3 1/2	45°	12 3/8	7 1/8	3	1 1/2															4.91
2S	36			5/8	3/4	8	4	45°	14 3/8	8 5/8	4	2															7.07
2M	36			5/8	3/4	8	4	45°	14 3/8	8 5/8	4	2															7.07
3																											
4	48			3/4	1 1/4	10	5	45°	18 3/8	11 5/8	5	2 1/2															12.57
5																											

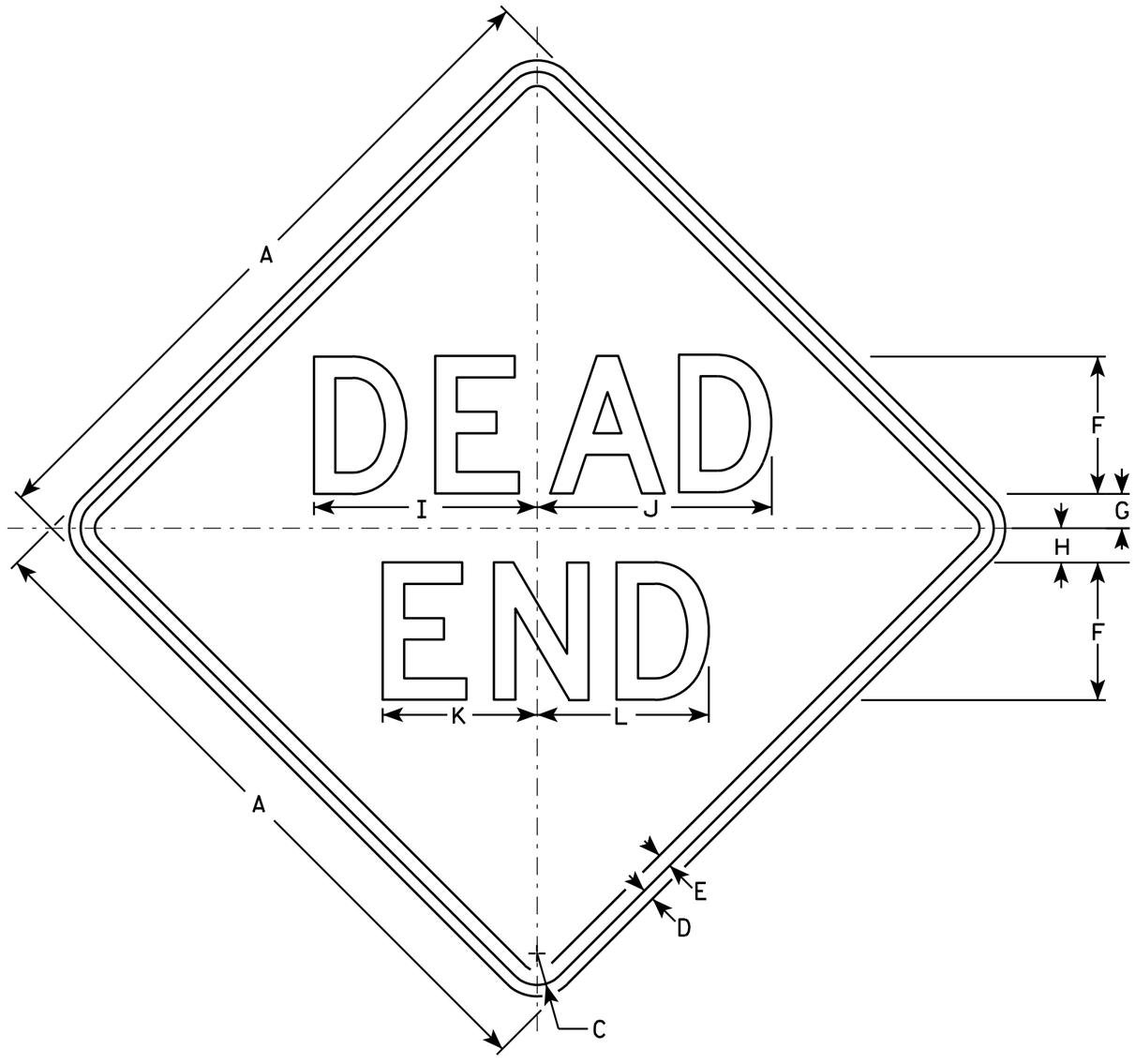
STANDARD SIGN
W10-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch for State Traffic Engineer

DATE 3/13/13 PLATE NO. W10-1.8

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



W14-1

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   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.

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	24		1 1/8	3/8	1/2	5	1	2	8 1/4	8 5/8	5 5/8	6 1/4															4.0
2S	30		1 3/8	1/2	5/8	6	1 1/2	2 1/2	9 3/4	10 1/4	6 3/4	7 1/2															6.25
2M	30		1 3/8	1/2	5/8	6	1 1/2	2 1/2	9 3/4	10 1/4	6 3/4	7 1/2															6.25
3	36		1 5/8	5/8	3/4	7	2	3	11 3/8	12	7 7/8	8 3/4															9.0
4																											
5																											

STANDARD SIGN
W14-1

WISCONSIN DEPT OF TRANSPORTATION

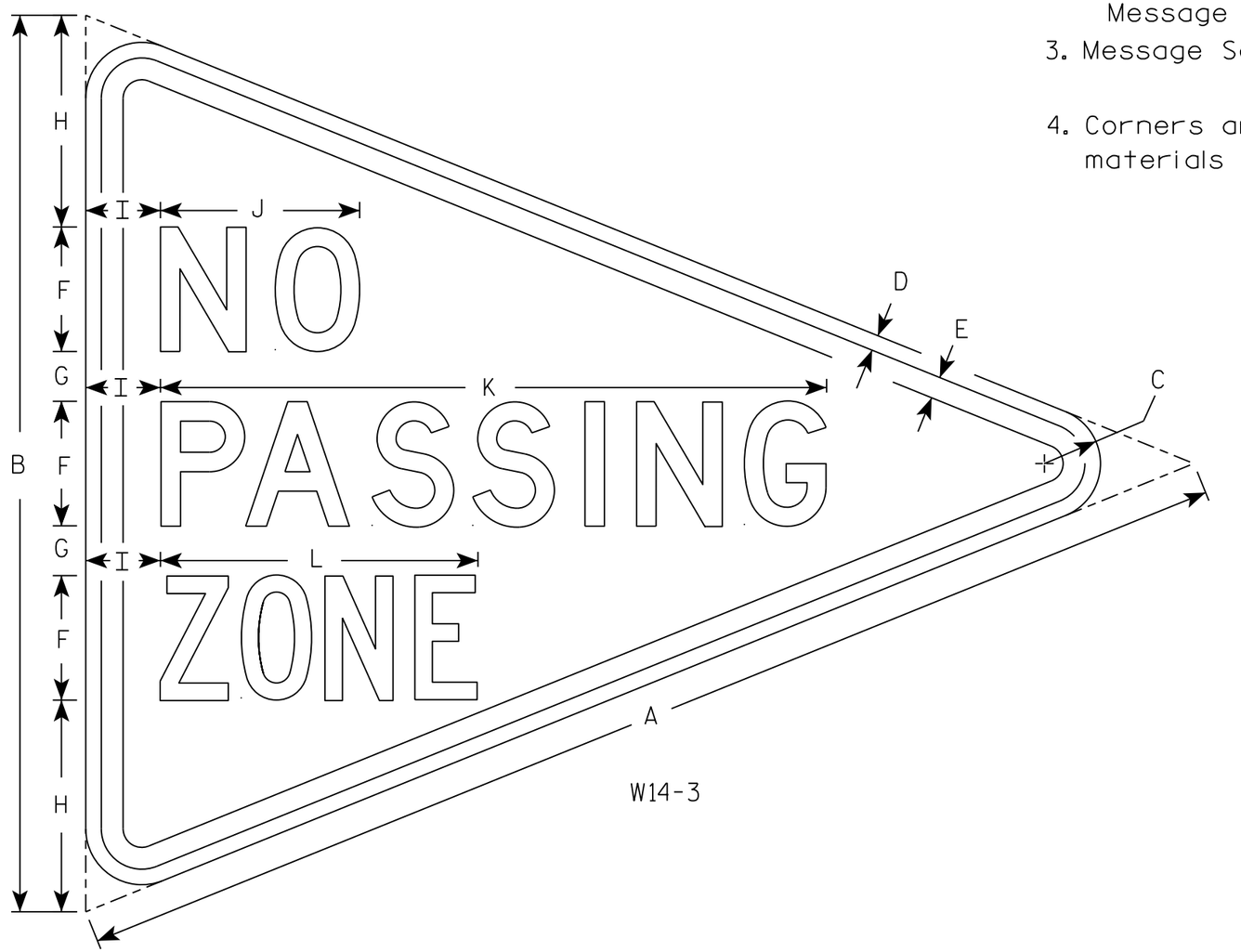
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/13/13 PLATE NO. W14-1.7

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

NOTES

1. Sign is Type II- Type F Reflective
2. Color:
   Background - Yellow
   Message - Black
3. Message Series - Lines 1 and 2 are Series D.
   Line 3 is series C.
4. Corners and borders shall be rounded on all base materials for this sign.



W14-3

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	48	36	2 1/4	5/8	7/8	5	2	8 1/2	3	8	26 3/4	12 3/4															5.56
2M																											
3																											
4																											
5																											

STANDARD SIGN
W14-3

WISCONSIN DEPT OF TRANSPORTATION

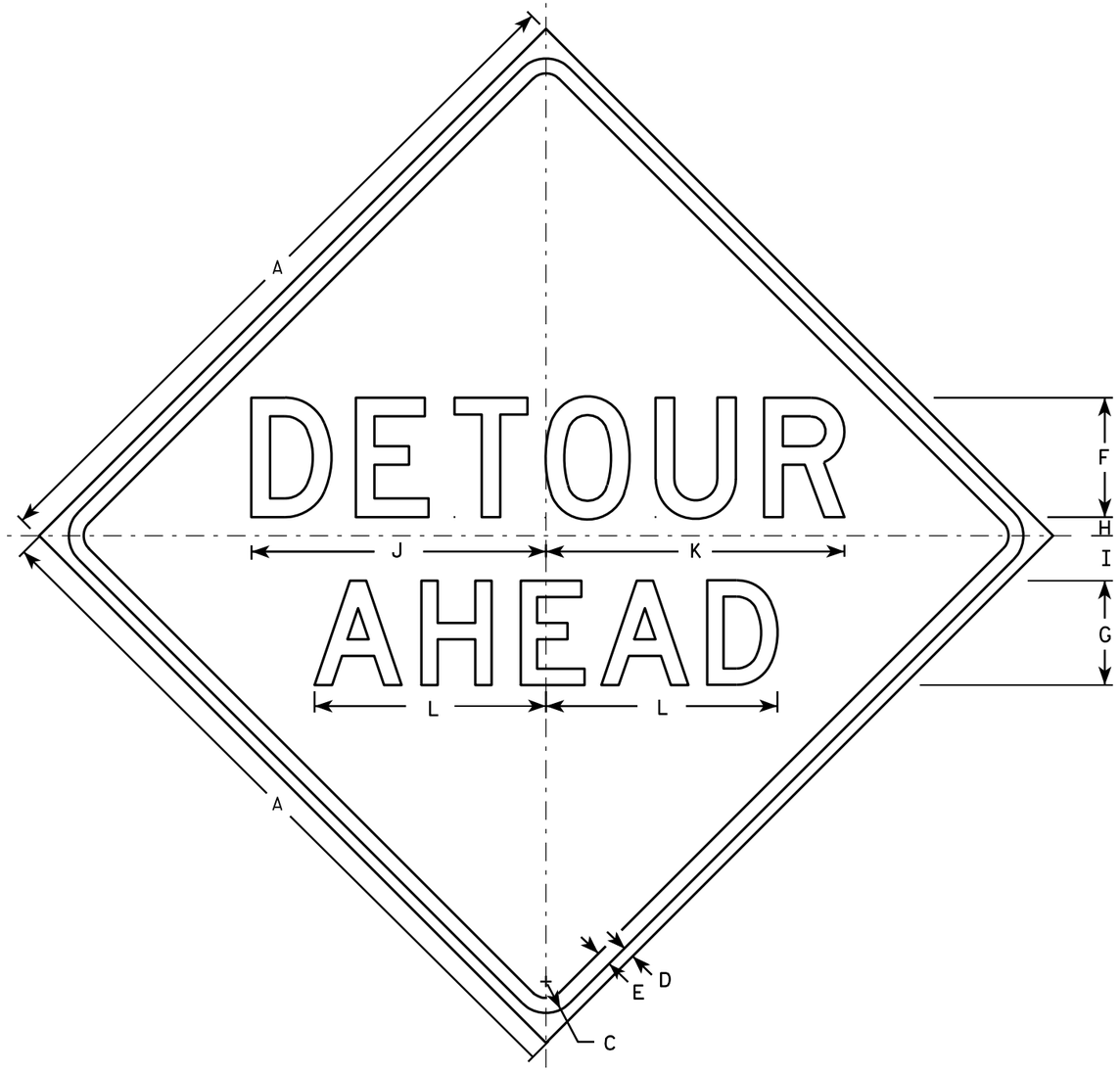
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/21/17 PLATE NO. W14-3.10

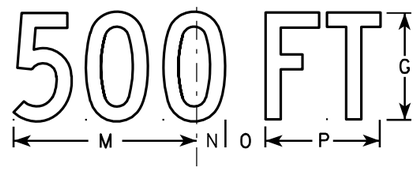
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 127 | E

7

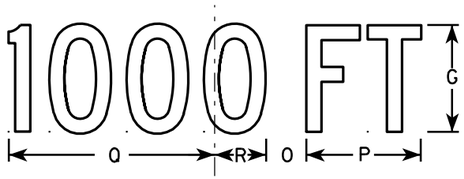
7



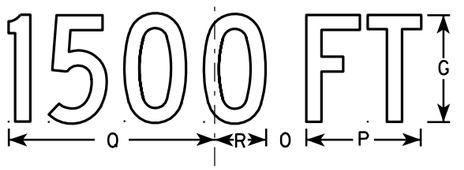
W20-2A



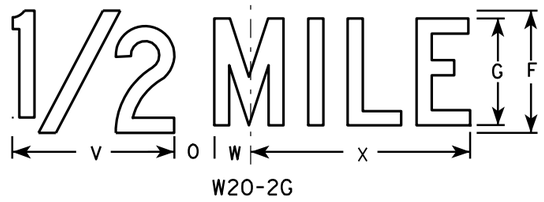
W20-2D



W20-2C



W20-2B



W20-2G



W20-2F

NOTES

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

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

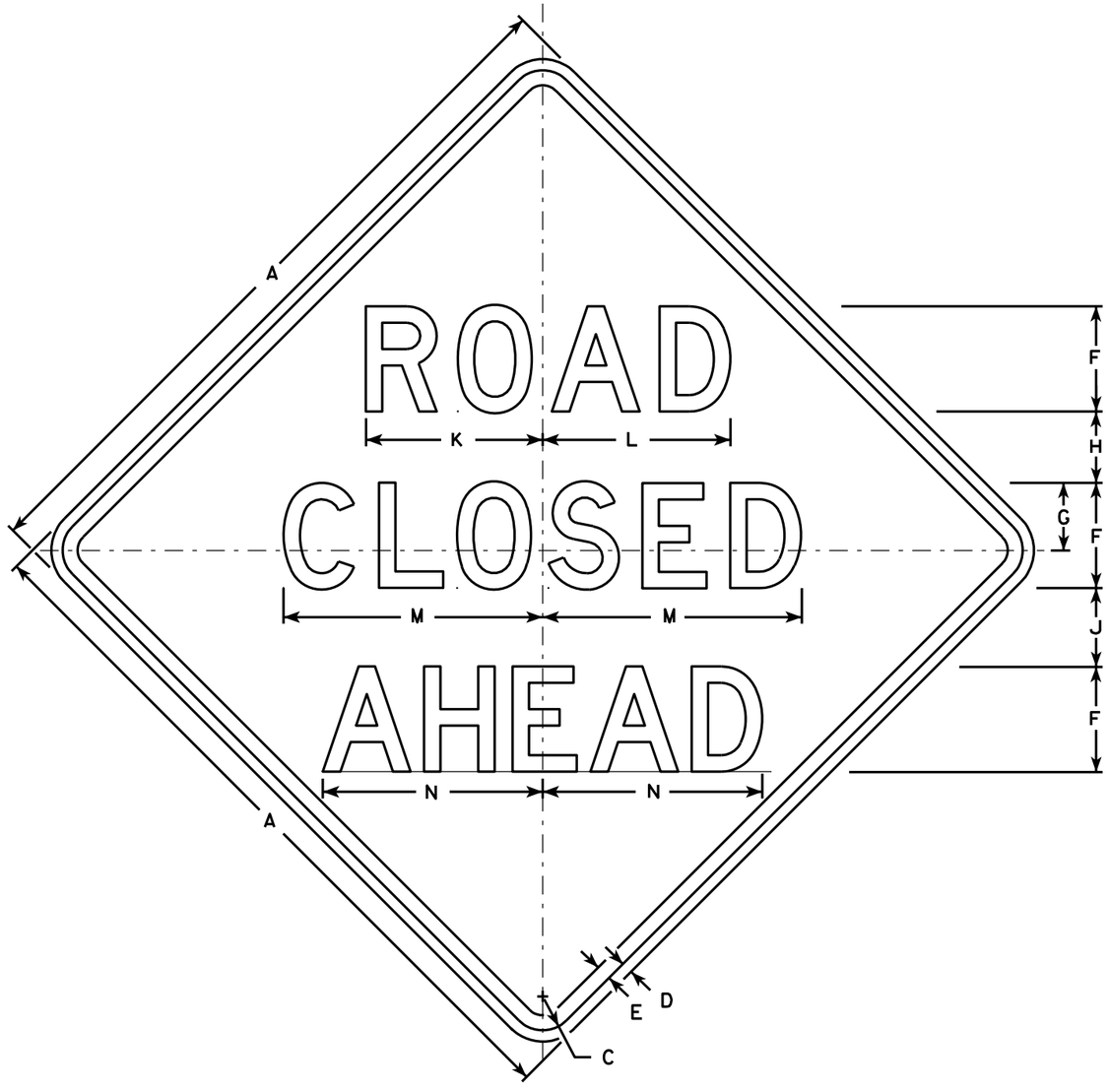
STANDARD SIGN
W20-2A,B,C,D,F & G

WISCONSIN DEPT OF TRANSPORTATION

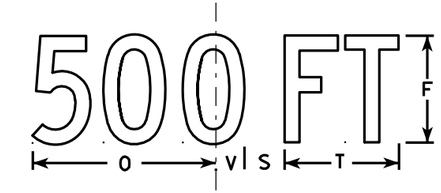
APPROVED Matthew R Rauch
for State Traffic Engineer

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

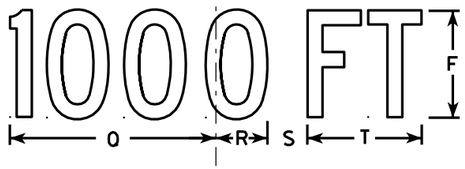
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 128 E



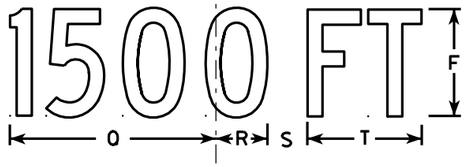
W20-3A



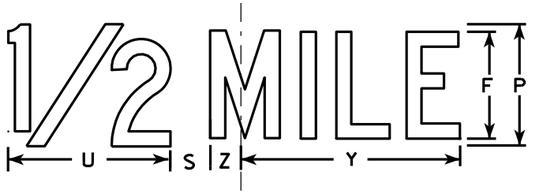
W20-3D



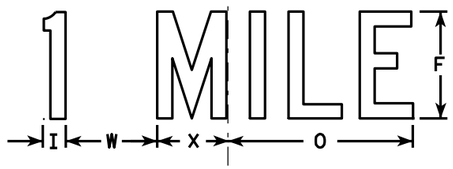
W20-3C



W20-3B



W20-3G



W20-3F

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Message Series - see note 5
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. 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		1 5/8	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		2 1/4	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		2 1/4	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		2 1/4	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		2 1/4	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		2 1/4	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 3/18/11 PLATE NO. W20-3.7

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

FILE NAME : C:\Users\PROJECTS\tr_stdplate\W203.DGN PLOT DATE : 18-MAR-2011 12:08 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 9.931739:1.000000

WISDOT/CADDS SHEET 42

7

7

STATION	AREA (SF)				Incremental Vol (CY) (Unadjusted)				Cumulative Vol (CY)				
	Cut	Salvaged/Unusable Pavement Material	Fill	Marsh Exc	Cut	Salvaged/Unusable Pavement Material	Fill	Marsh Exc	Cut 1.00	Expanded Fill 1.25	Expanded Marsh Backfill 1.12	Reduced Marsh in Fill 0.60	Mass Ordinate
					Note 1	Note 2	Note 3		Note 1		Note 4	Note 6	Note 8
229+00	48.15	7.33	9.67	0.00	0	0	0	0	0	0	0	0.00	0.00
230+00	63.43	7.33	3.84	0.00	207	27	25	0	207	31	0	0.00	148.20
231+00	76.65	7.33	0.24	0.00	259	27	8	0	466	41	0	0.00	370.99
232+00	103.21	7.33	0.00	0.00	333	27	0	0	799	41	0	0.00	676.35
233+00	116.17	7.33	0.00	0.00	406	27	0	0	1,205	41	0	0.00	1,055.46
234+00	82.32	7.33	1.11	0.00	368	27	2	0	1,573	44	0	0.00	1,393.32
235+00	77.27	7.33	5.47	0.00	296	27	12	0	1,868	59	0	0.00	1,646.50
236+00	58.21	7.33	23.27	0.00	251	27	53	0	2,119	126	0	0.00	1,803.73
237+00	40.68	7.33	52.46	0.00	183	27	140	0	2,303	301	0	0.00	1,784.40
238+00	29.86	7.33	62.33	0.00	131	27	213	0	2,433	567	0	0.00	1,622.16
239+00	35.06	7.33	62.97	0.00	120	27	232	0	2,553	857	0	0.00	1,425.21
240+00	47.24	7.33	52.63	0.00	152	27	214	0	2,706	1,124	0	0.00	1,282.89
241+00	59.82	7.33	38.31	0.00	198	27	168	0	2,904	1,335	0	0.00	1,243.51
242+00	66.96	7.33	29.48	0.00	235	27	126	0	3,139	1,492	0	0.00	1,294.21
243+00	64.51	7.33	19.79	0.00	243	27	91	0	3,382	1,606	0	0.00	1,396.47
244+00	56.72	7.33	17.73	0.00	225	27	69	0	3,607	1,693	0	0.00	1,506.97
245+00	79.61	7.33	10.28	0.00	252	27	52	0	3,859	1,757	0	0.00	1,667.46
246+00	45.48	7.33	19.10	0.00	232	27	54	0	4,091	1,825	0	0.00	1,803.96
247+00	43.95	7.33	7.30	0.00	166	27	49	0	4,256	1,887	0	0.00	1,881.31
248+00	45.08	7.33	16.05	0.00	165	27	43	0	4,421	1,941	0	0.00	1,964.99
249+00	50.39	7.33	24.97	0.00	177	27	76	0	4,598	2,035	0	0.00	2,019.71
250+00	72.08	7.33	24.18	0.00	227	27	91	0	4,825	2,149	0	0.00	2,105.60
251+00	83.42	7.33	21.15	0.00	288	27	84	0	5,113	2,254	0	0.00	2,261.48
252+00	67.26	7.33	21.79	0.00	279	27	80	0	5,392	2,354	0	0.00	2,413.96
253+00	61.81	7.33	21.34	0.00	239	27	80	0	5,631	2,453	0	0.00	2,526.01
254+00	42.31	7.33	25.46	0.00	193	27	87	0	5,824	2,562	0	0.00	2,583.36
255+00	114.96	7.33	29.99	0.00	291	27	103	0	6,115	2,690	0	0.00	2,719.08
256+00	268.90	7.33	28.38	0.00	711	27	108	0	6,826	2,825	0	0.00	3,267.67
257+00	194.78	7.33	15.48	0.00	859	27	81	0	7,685	2,927	0	0.00	3,997.67
258+00	49.52	7.33	39.70	0.00	452	27	102	0	8,137	3,054	0	0.00	4,295.21
259+00	52.64	7.33	7.55	0.00	189	27	88	0	8,326	3,164	0	0.00	4,347.86
260+00	63.31	7.33	13.64	0.00	215	27	39	0	8,541	3,213	0	0.00	4,486.39
261+00	33.27	7.33	33.01	0.00	179	27	86	0	8,720	3,321	0	0.00	4,530.12
262+00	33.41	7.33	41.27	0.00	123	27	138	0	8,843	3,493	0	0.00	4,454.49
263+00	46.03	7.33	20.22	0.00	147	27	114	0	8,990	3,635	0	0.00	4,432.10
264+00	67.89	7.33	11.55	0.00	211	27	59	0	9,201	3,709	0	0.00	4,542.36
265+00	72.40	7.33	16.13	0.00	260	27	51	0	9,461	3,773	0	0.00	4,710.94
266+00	74.36	7.33	7.67	0.00	272	27	44	0	9,733	3,828	0	0.00	4,900.51
267+00	60.44	7.33	17.44	0.00	250	27	46	0	9,982	3,886	0	0.00	5,064.88
268+00	42.20	7.33	26.03	0.00	190	27	81	0	10,173	3,987	0	0.00	5,127.17
269+00	41.56	7.33	24.51	0.00	155	27	94	0	10,328	4,104	0	0.00	5,138.14
270+00	68.34	7.33	4.95	0.00	204	27	55	0	10,531	4,172	0	0.00	5,246.30

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10) Expanded Marsh Backfill - This is to be filled with Granular Backfill Grade 1. Expanded Marsh Factor = 1.12. Item number 209.2500
13) Expanded Fill. Factor = 1.25
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.

STATION	AREA (SF)				Incremental Vol (CY) (Unadjusted)				Cumulative Vol (CY)				Mass Ordinate
	Cut	Salvaged/Unusable Pavement Material	Fill	Marsh Exc	Cut	Salvaged/Unusable Pavement Material	Fill	Marsh Exc	Cut	Expanded Fill	Expanded Marsh Backfill	Reduced Marsh in Fill	
									1.00	1.25	1.12	0.60	
					Note 1	Note 2	Note 3		Note 1		Note 4	Note 6	Note 8
271+00	40.38	7.33	10.67	0.00	201	27	29	0	10,733	4,208	0	0.00	5,384.33
272+00	52.12	7.33	8.59	0.00	171	27	36	0	10,904	4,253	0	0.00	5,483.93
273+00	60.88	7.33	13.08	0.00	209	27	40	0	11,113	4,303	0	0.00	5,615.88
274+00	45.65	7.33	10.35	0.00	197	27	43	0	11,310	4,357	0	0.00	5,731.76
275+00	50.10	7.33	6.00	0.00	177	27	30	0	11,488	4,395	0	0.00	5,844.07
276+00	59.69	7.33	11.42	0.00	203	27	32	0	11,691	4,435	0	0.00	5,979.89
277+00	83.40	7.33	4.36	0.00	265	27	29	0	11,956	4,472	0	0.00	6,181.19
278+00	93.64	7.33	10.84	0.00	328	27	28	0	12,284	4,507	0	0.00	6,446.71
279+00	85.79	7.33	11.94	0.00	332	27	42	0	12,616	4,560	0	0.00	6,699.11
280+00	78.83	7.33	8.76	0.00	305	27	38	0	12,921	4,608	0	0.00	6,928.90
281+00	65.87	7.33	10.40	0.00	268	27	35	0	13,189	4,652	0	0.00	7,125.35
282+00	56.73	7.33	17.07	0.00	227	27	51	0	13,416	4,715	0	0.00	7,261.64
283+00	120.77	7.33	0.00	0.00	329	27	32	0	13,745	4,755	0	0.00	7,523.68
284+00	47.69	7.33	17.05	0.00	312	27	32	0	14,057	4,794	0	0.00	7,769.04
285+00	67.27	7.33	20.75	0.00	213	27	70	0	14,270	4,882	0	0.00	7,867.28
286+00	103.63	7.33	6.21	0.00	316	27	50	0	14,586	4,944	0	0.00	8,094.19
287+00	103.01	7.33	3.85	0.00	383	27	19	0	14,969	4,968	0	0.00	8,426.42
288+00	102.87	7.33	4.43	0.00	381	27	15	0	15,350	4,987	0	0.00	8,761.36
289+00	81.75	7.33	5.80	0.00	342	27	19	0	15,692	5,011	0	0.00	9,052.40
290+00	72.17	7.33	5.51	0.00	285	27	21	0	15,977	5,037	0	0.00	9,284.10
291+00	70.50	7.33	4.91	0.00	264	27	19	0	16,241	5,061	0	0.00	9,497.02
292+00	47.57	7.33	11.21	0.00	219	27	30	0	16,460	5,098	0	0.00	9,651.20
293+00	27.09	7.33	23.66	0.00	138	27	65	0	16,598	5,179	0	0.00	9,681.59
294+00	18.07	7.33	28.88	0.00	84	27	97	0	16,682	5,301	0	0.00	9,616.44
295+00	15.89	7.33	49.64	0.00	63	27	145	0	16,744	5,482	0	0.00	9,470.43
296+00	9.62	7.33	62.79	0.00	47	27	208	0	16,792	5,743	0	0.00	9,230.27
297+00	47.26	7.33	77.40	28.50	105	27	260	53	16,897	6,067	59	31.67	8,952.27
297+31	27.68	7.33	133.66	25.00	43	8	121	31	16,940	6,219	94	50.13	8,816.73
297+94	39.40	7.33	68.36	25.00	78	17	236	58	17,018	6,514	159	85.18	8,547.85
298+00	40.03	7.33	72.35	20.60	9	2	15	5	17,027	6,533	165	88.14	8,532.87
299+00	58.22	7.33	43.52	20.00	182	27	215	75	17,209	6,801	249	133.26	8,374.32
300+00	76.75	7.33	44.13	29.90	250	27	162	92	17,459	7,004	352	188.70	8,338.76
301+00	83.25	7.33	14.03	0.00	296	27	108	55	17,755	7,139	414	221.92	8,440.05
302+00	75.36	7.33	7.10	0.00	294	27	39	0	18,049	7,188	414	221.92	8,657.70
303+00	66.32	7.33	8.27	0.00	262	27	28	0	18,311	7,223	414	221.92	8,857.35
304+00	69.70	7.33	32.49	0.00	252	27	75	0	18,563	7,317	414	221.92	8,987.75
305+00	109.48	7.33	1.27	0.00	332	27	63	0	18,895	7,396	414	221.92	9,214.27
306+00	80.50	7.33	32.65	0.00	352	27	63	0	19,247	7,474	414	221.92	9,460.41
307+00	67.01	7.33	35.63	0.00	273	27	126	0	19,520	7,632	414	221.92	9,548.37
308+00	57.90	7.33	39.91	0.00	231	27	140	0	19,751	7,807	414	221.92	9,577.67
309+00	50.00	7.33	28.83	0.00	200	27	127	0	19,951	7,966	414	221.92	9,591.20
310+00	46.19	7.33	7.27	0.00	178	27	67	0	20,129	8,050	414	221.92	9,658.60

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10) Expanded Marsh Backfill - This is to be filled with Granular Backfill Grade 1. Expanded Marsh Factor = 1.12. Item number 209.2500
13) Expanded Fill. Factor = 1.25
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.

STATION	AREA (SF)				Incremental Vol (CY) (Unadjusted)				Cumulative Vol (CY)				Mass Ordinate
	Cut	Salvaged/Unusable Pavement Material	Fill	Marsh Exc	Cut	Salvaged/Unusable Pavement Material	Fill	Marsh Exc	Cut	Expanded Fill	Expanded Marsh Backfill	Reduced Marsh in Fill	
									1.00	1.25	1.12	0.60	
					Note 1	Note 2	Note 3		Note 1		Note 4	Note 6	Note 8
311+00	43.16	7.33	9.83	0.00	165	27	32	0	20,295	8,089	414	221.92	9,757.33
312+00	52.71	7.33	17.68	0.00	178	27	51	0	20,472	8,153	414	221.92	9,844.05
313+00	36.54	7.33	28.58	0.00	165	27	86	0	20,638	8,260	414	221.92	9,875.10
314+00	47.34	7.33	42.18	0.00	155	27	131	0	20,793	8,424	414	221.92	9,839.49
315+09	31.06	7.33	47.32	0.00	158	30	181	0	20,951	8,650	414	221.92	9,742.31
316+09	34.26	7.33	47.53	0.00	121	27	176	0	21,072	8,869	414	221.92	9,616.55
317+09	52.06	7.33	41.30	0.00	160	27	164	0	21,232	9,075	414	221.92	9,543.64
318+09	58.65	7.33	31.41	0.00	205	27	135	0	21,437	9,243	414	221.92	9,553.19
319+09	55.15	7.33	29.70	0.00	211	27	113	0	21,648	9,385	414	221.92	9,595.32
320+09	62.87	7.33	32.79	0.00	219	27	116	0	21,866	9,529	414	221.92	9,642.10
321+09	76.10	7.33	26.35	0.00	257	27	110	0	22,124	9,666	414	221.92	9,735.40
322+09	75.07	7.33	24.76	0.00	280	27	95	0	22,403	9,784	414	221.92	9,869.88
323+09	64.87	7.33	24.67	0.00	259	27	92	0	22,663	9,899	414	221.92	9,987.46
324+09	63.02	7.33	22.72	0.00	237	27	88	0	22,899	10,009	414	221.92	10,087.44
325+09	65.59	7.33	14.89	0.00	238	27	70	0	23,138	10,096	414	221.92	10,211.40
326+09	103.06	7.33	2.42	0.00	312	27	32	0	23,450	10,136	414	221.92	10,456.49
327+09	77.19	7.33	1.67	0.00	334	27	8	0	23,784	10,145	414	221.92	10,753.66
328+09	74.01	7.33	5.76	0.00	280	27	14	0	24,064	10,162	414	221.92	10,989.28
329+09	80.08	7.33	18.33	0.00	285	27	45	0	24,349	10,218	414	221.92	11,191.70
330+09	28.17	7.33	29.20	0.00	200	27	88	0	24,550	10,328	414	221.92	11,254.98
331+09	45.06	7.33	12.16	0.00	136	27	77	0	24,685	10,424	414	221.92	11,267.68
332+09	122.25	7.33	1.16	0.00	310	27	25	0	24,995	10,455	414	221.92	11,519.51
333+09	159.65	7.33	0.00	0.00	522	27	2	0	25,517	10,457	414	221.92	12,011.72
334+09	141.61	7.33	0.00	0.00	558	27	0	0	26,075	10,457	414	221.92	12,542.47
335+09	141.62	7.33	0.00	0.00	524	27	0	0	26,599	10,457	414	221.92	13,039.81
336+09	131.47	7.33	0.11	0.00	506	27	0	0	27,105	10,458	414	221.92	13,518.13
337+09	102.08	7.33	0.10	0.00	433	27	0	0	27,538	10,458	414	221.92	13,922.99
338+09	82.84	7.33	1.25	0.00	342	27	3	0	27,880	10,461	414	221.92	14,235.17
339+09	91.07	7.33	5.30	0.00	322	27	12	0	28,202	10,477	414	221.92	14,514.92
340+09	88.72	7.33	4.92	0.00	333	27	19	0	28,535	10,500	414	221.92	14,797.06
341+09	73.79	7.33	10.86	0.00	301	27	29	0	28,836	10,537	414	221.92	15,034.32
342+09	60.84	7.33	22.53	0.00	249	27	62	0	29,085	10,614	414	221.92	15,179.19
343+09	56.63	7.33	19.09	0.00	218	27	77	0	29,303	10,710	414	221.92	15,273.24
343+73	83.42	7.33	7.21	0.00	190	20	36	0	29,493	10,755	414	221.92	15,398.77

29,493	3,117	8,604	370

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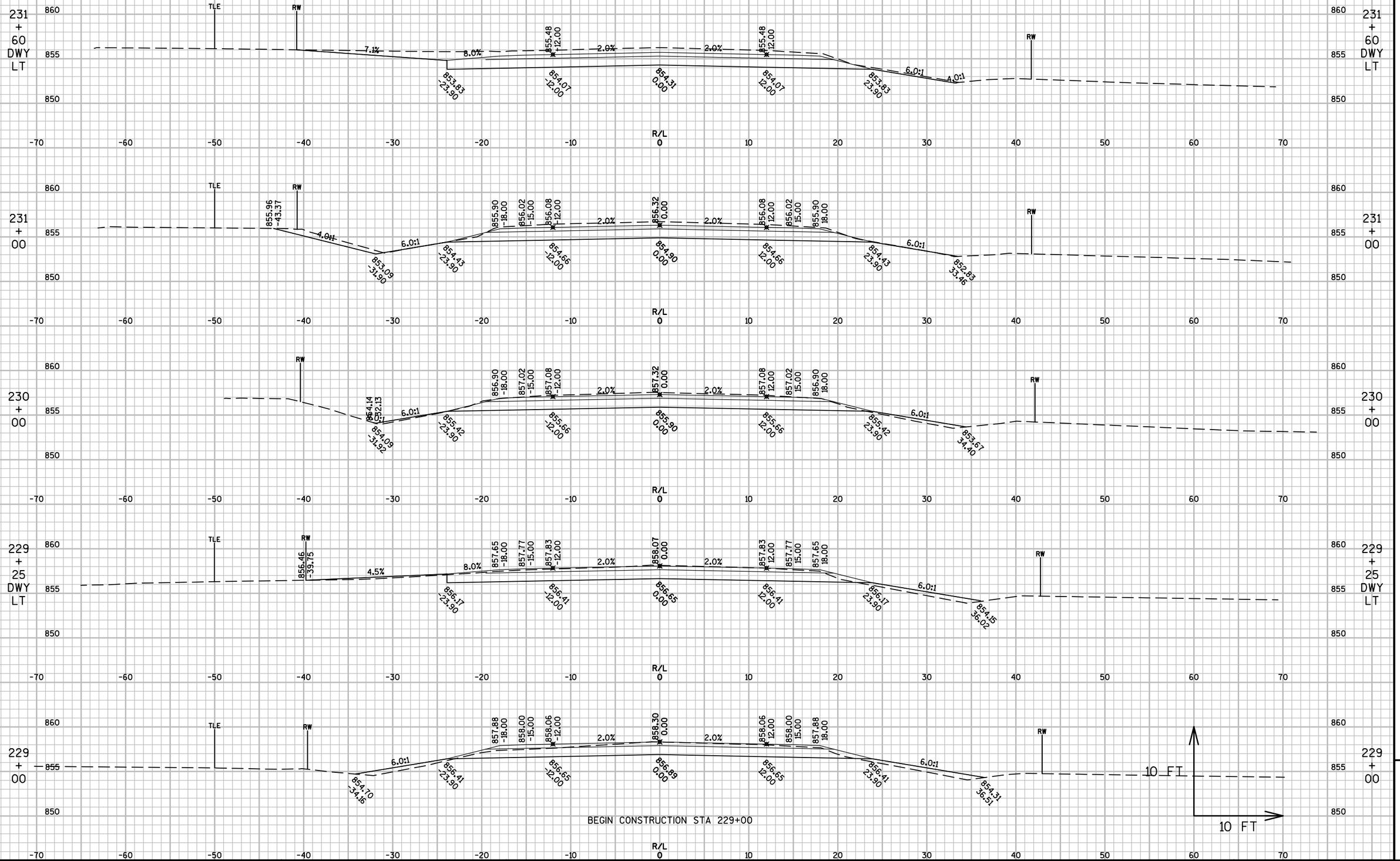
Hample Road Earthwork

STATION	AREA (SF)			Incremental Vol (CY) (Unadjusted)			Cumulative Vol (CY)		
	Cut	Salvaged/Unusable Pavement Material	Fill	Cut	Salvaged/Unusable Pavement Material	Fill	Cut 1.00	Expanded Fill 1.25	Mass Ordinate
				Note 1	Note 2	Note 3	Note 1		Note 8
100+11	42.43	9.33	0.00	0	0	0	0	0	0.00
100+50	45.94	11.00	0.00	63	15	0	63	0	48.74
101+00	41.57	13.33	5.80	81	23	5	144	7	100.52
101+25	57.71	22.00	42.86	46	16	23	190	35	101.97
End / Begin									
102+25	51.79	14.66	9.77	0	0	0	190	35	101.97
102+50	53.77	12.33	0.80	49	12	5	239	41	132.22
103+00	43.24	10.00	3.17	90	21	4	329	46	196.77
103+27	37.69	8.33	3.53	41	9	3	370	50	224.26
				370	96	40			

State Road Earthwork

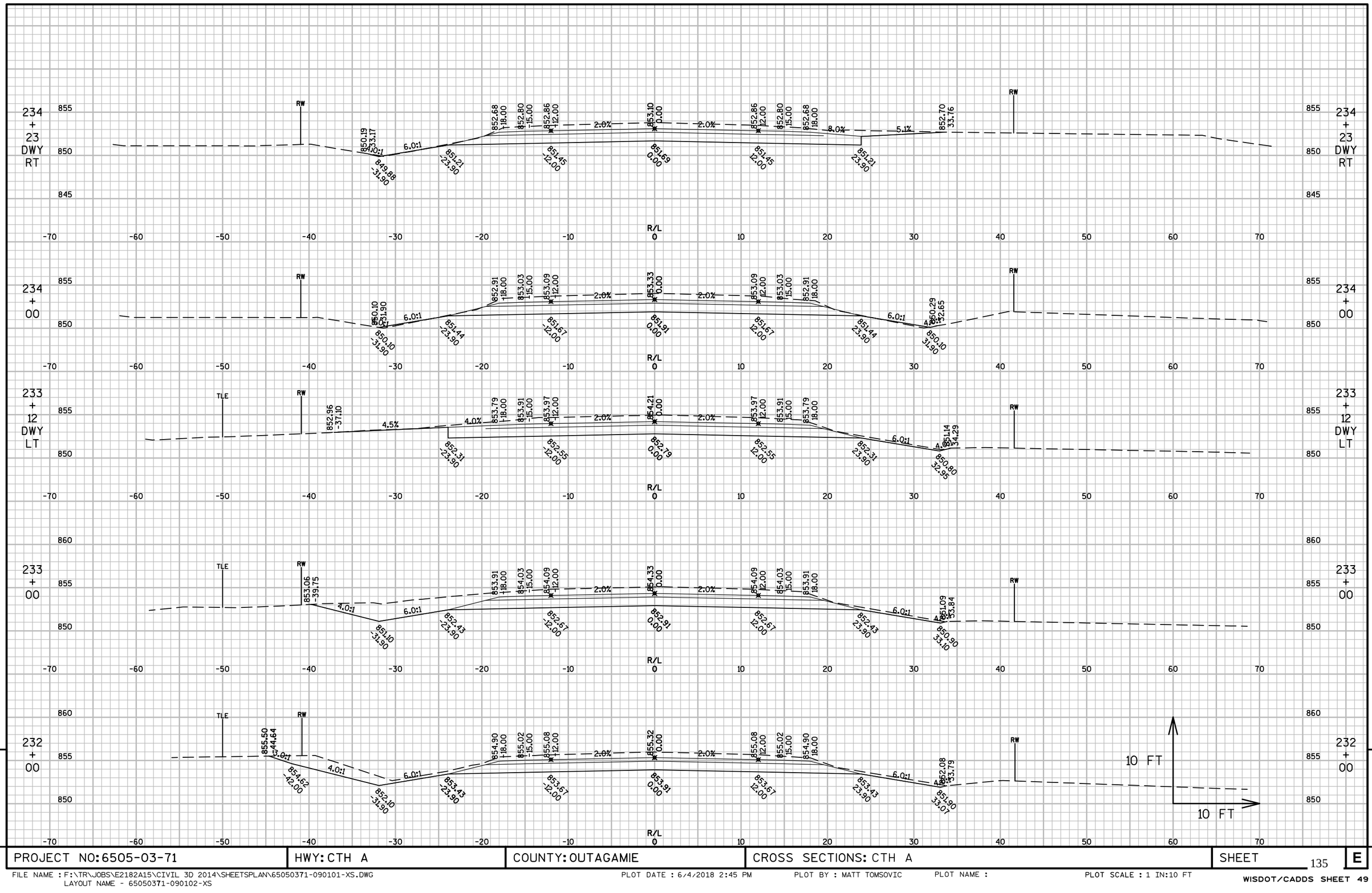
STATION	AREA (SF)			Incremental Vol (CY) (Unadjusted)			Cumulative Vol (CY)		
	Cut	Salvaged/Unusable Pavement Material	Fill	Cut	Salvaged/Unusable Pavement Material	Fill	Cut 1.00	Expanded Fill 1.25	Mass Ordinate
				Note 1	Note 2	Note 3	Note 1		Note 8
110+50	63.81	13.33	94.78	0	0	0	0	0	0.00
111+00	38.84	12.66	29.17	95	24	115	95	143	-72.48
111+50	32.88	11.00	15.78	66	22	42	161	195	-80.00
111+75	34.99	11.00	15.51	31	10	14	193	214	-76.87
				193	56	171			

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13) Expanded Fill. Factor = 1.25
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PROJECT NO: 6505-03-71	HWY: CTH A	COUNTY: OUTAGAMIE	CROSS SECTIONS: CTH A	SHEET	E

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PLOT DATE : 6/4/2018 2:45 PM
PLOT BY : MATT TOMSOVIC
PLOT NAME :
PLOT SCALE : 1 IN:10 FT
WISDOT/CADDS SHEET 49

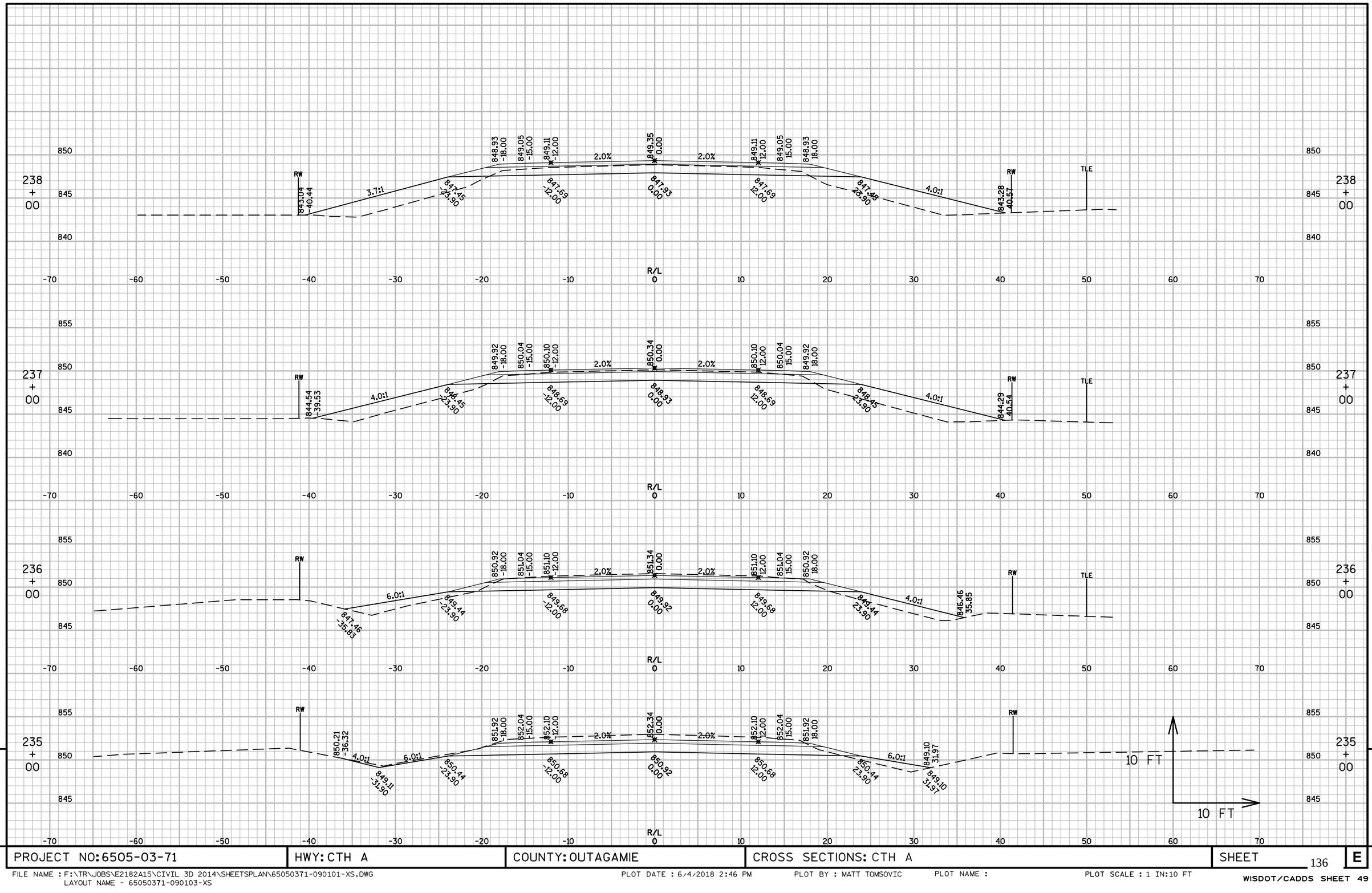


PROJECT NO: 6505-03-71	HWY: CTH A	COUNTY: OUTAGAMIE	CROSS SECTIONS: CTH A	SHEET	E

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WISDOT/CADDS SHEET 49



9

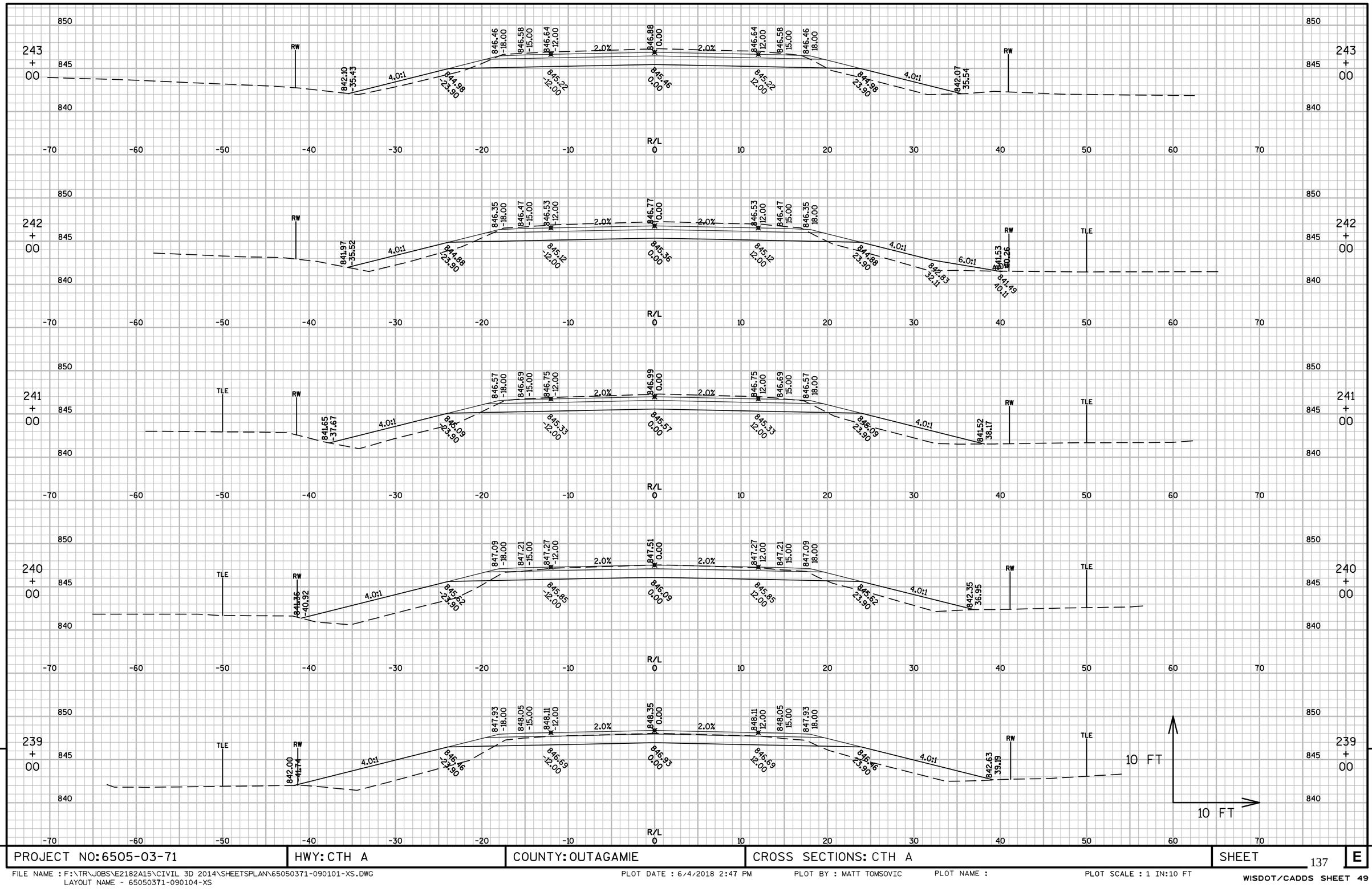
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LAYOUT NAME - 65050371-090103-XS

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WISDOT/CADDS SHEET 49



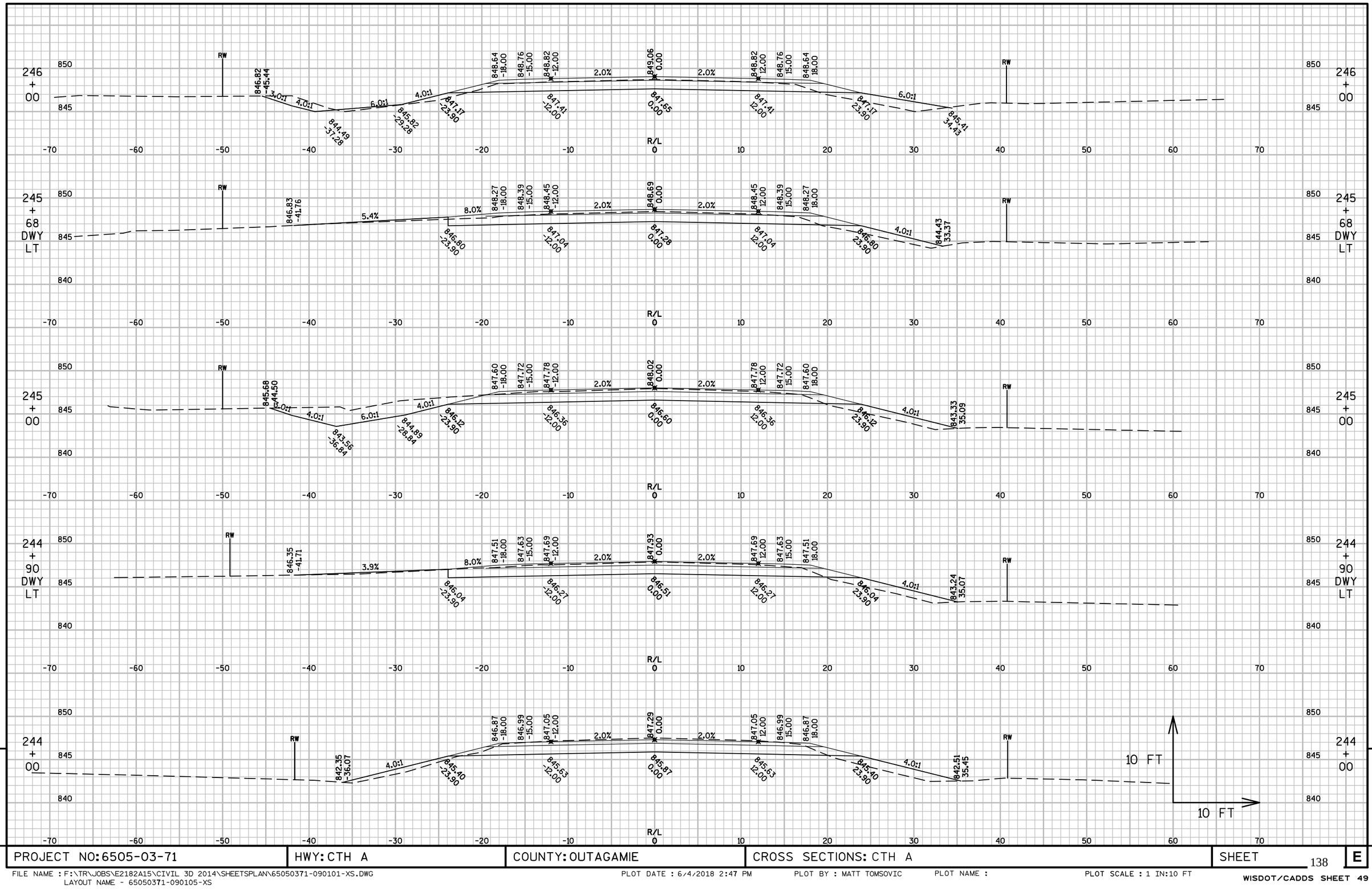
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PROJECT NO: 6505-03-71	HWY: CTH A	COUNTY: OUTAGAMIE	CROSS SECTIONS: CTH A	SHEET	E

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LAYOUT NAME - 65050371-090104-XS

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WISDOT/CADDS SHEET 49

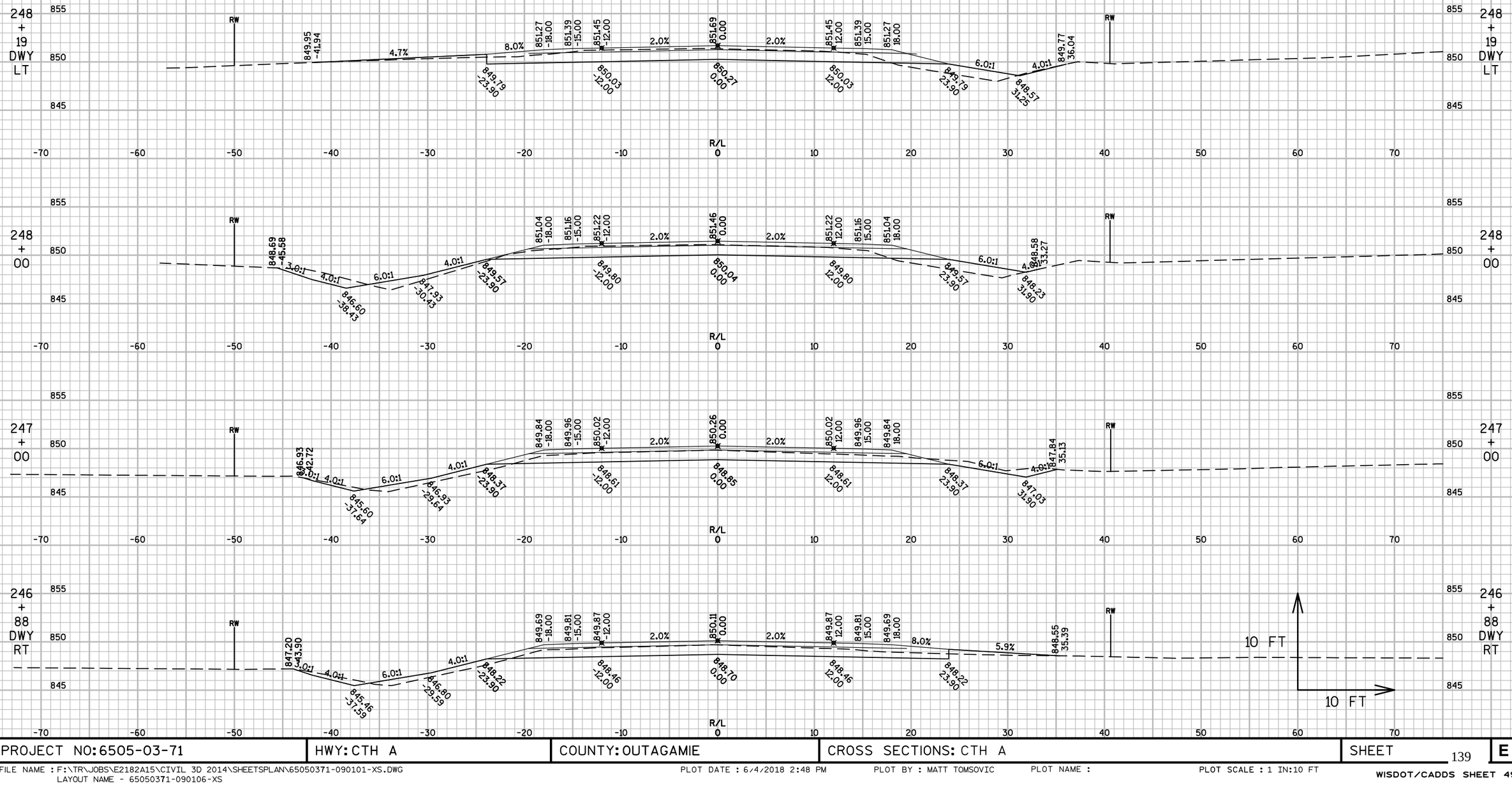


PROJECT NO: 6505-03-71	HWY: CTH A	COUNTY: OUTAGAMIE	CROSS SECTIONS: CTH A	SHEET	E

FILE NAME : F:\TR\JOBS\E2182A15\CIVIL 3D 2014\SHEETSPLAN\65050371-090101-XS.DWG
LAYOUT NAME - 65050371-090105-XS

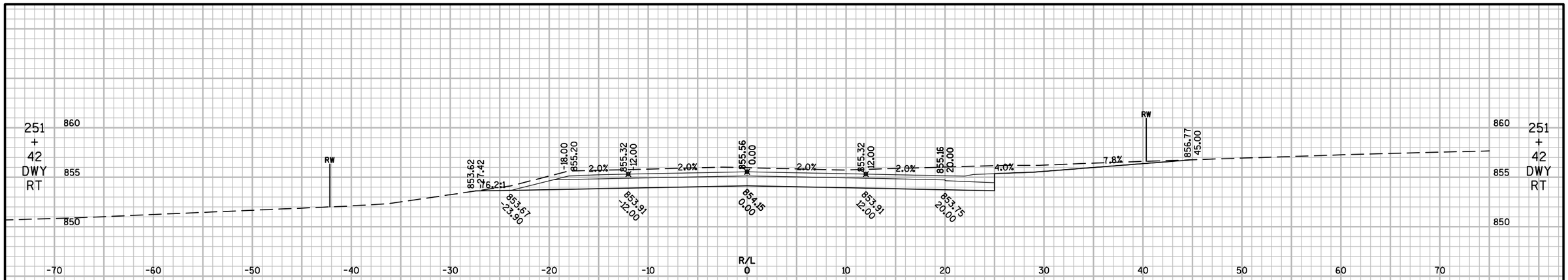
PLOT DATE : 6/4/2018 2:47 PM PLOT BY : MATT TOMSOVIC PLOT NAME : PLOT SCALE : 1 IN:10 FT

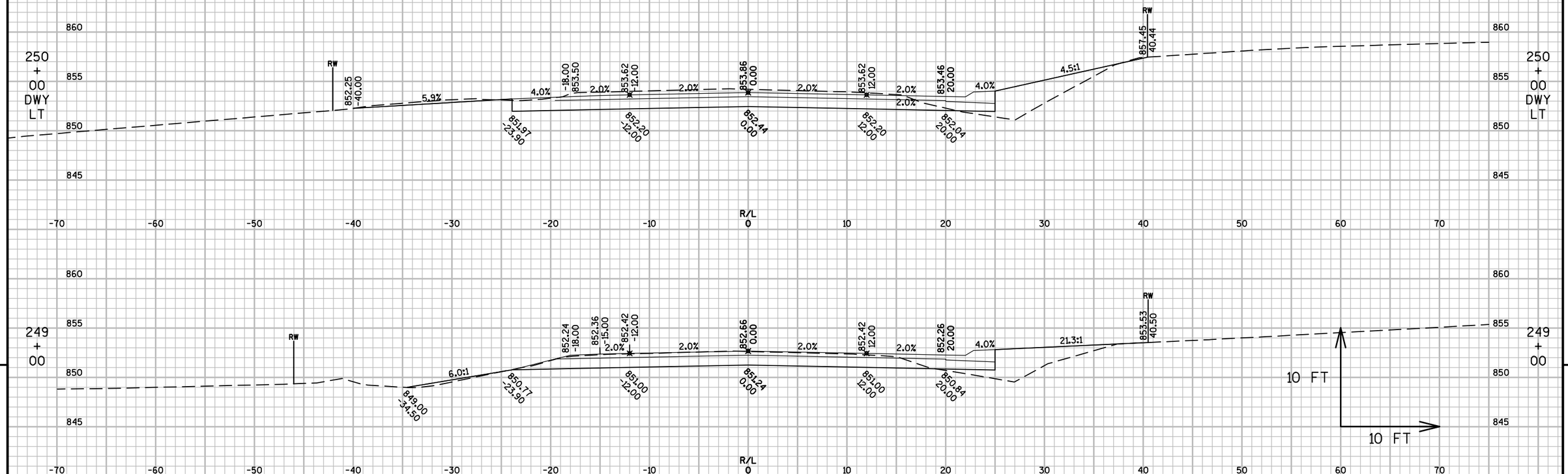
WISDOT/CADDS SHEET 49



9

PROJECT NO: 6505-03-71	HWY: CTH A	COUNTY: OUTAGAMIE	CROSS SECTIONS: CTH A	SHEET 139	E





9

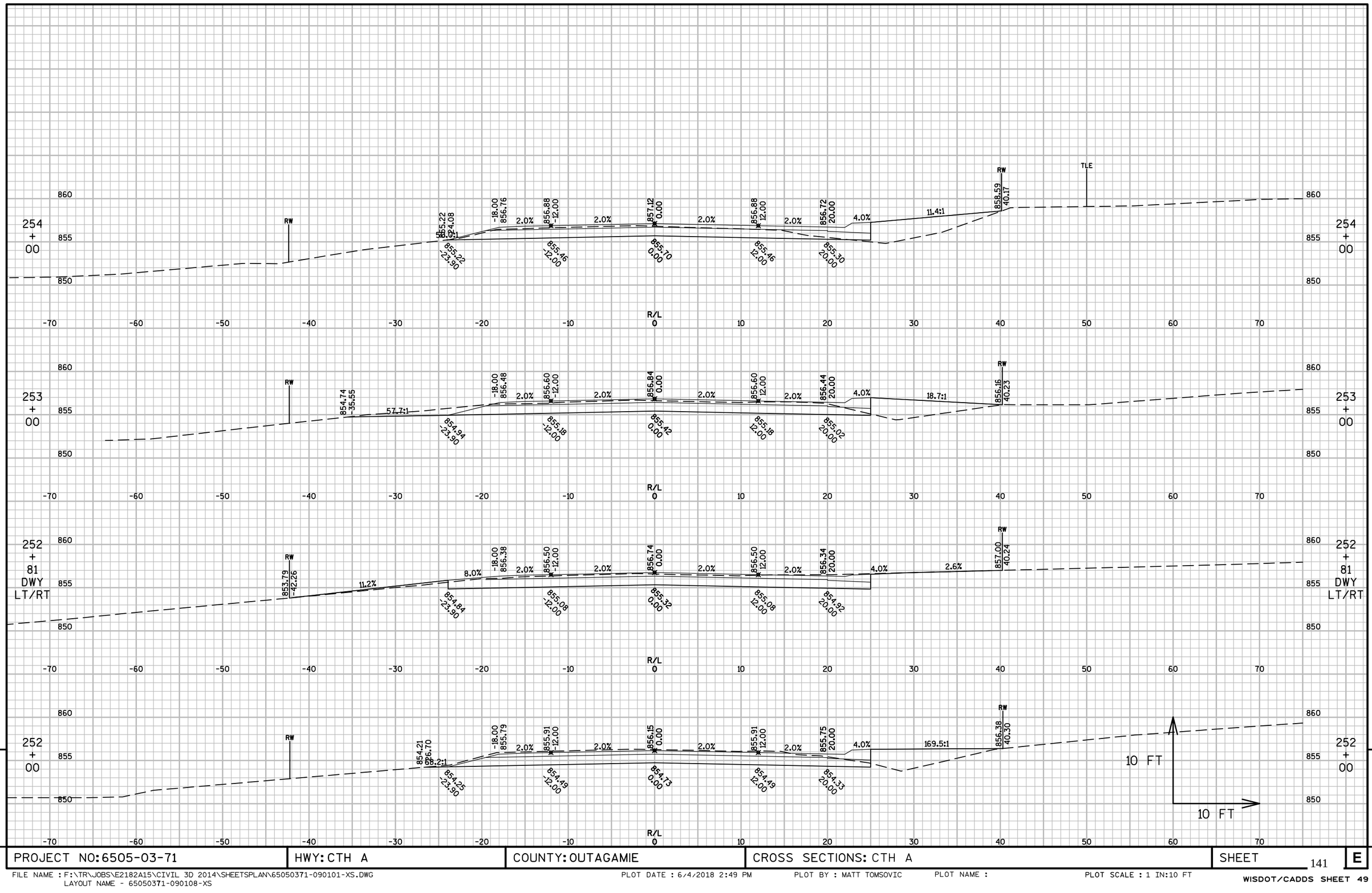
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PROJECT NO: 6505-03-71	HWY: CTH A	COUNTY: OUTAGAMIE	CROSS SECTIONS: CTH A	SHEET 140	E

FILE NAME : F:\TR\JOBS\E2182A15\CIVIL 3D 2014\SHEETSPLAN\65050371-090101-XS.DWG
LAYOUT NAME - 65050371-090107-XS

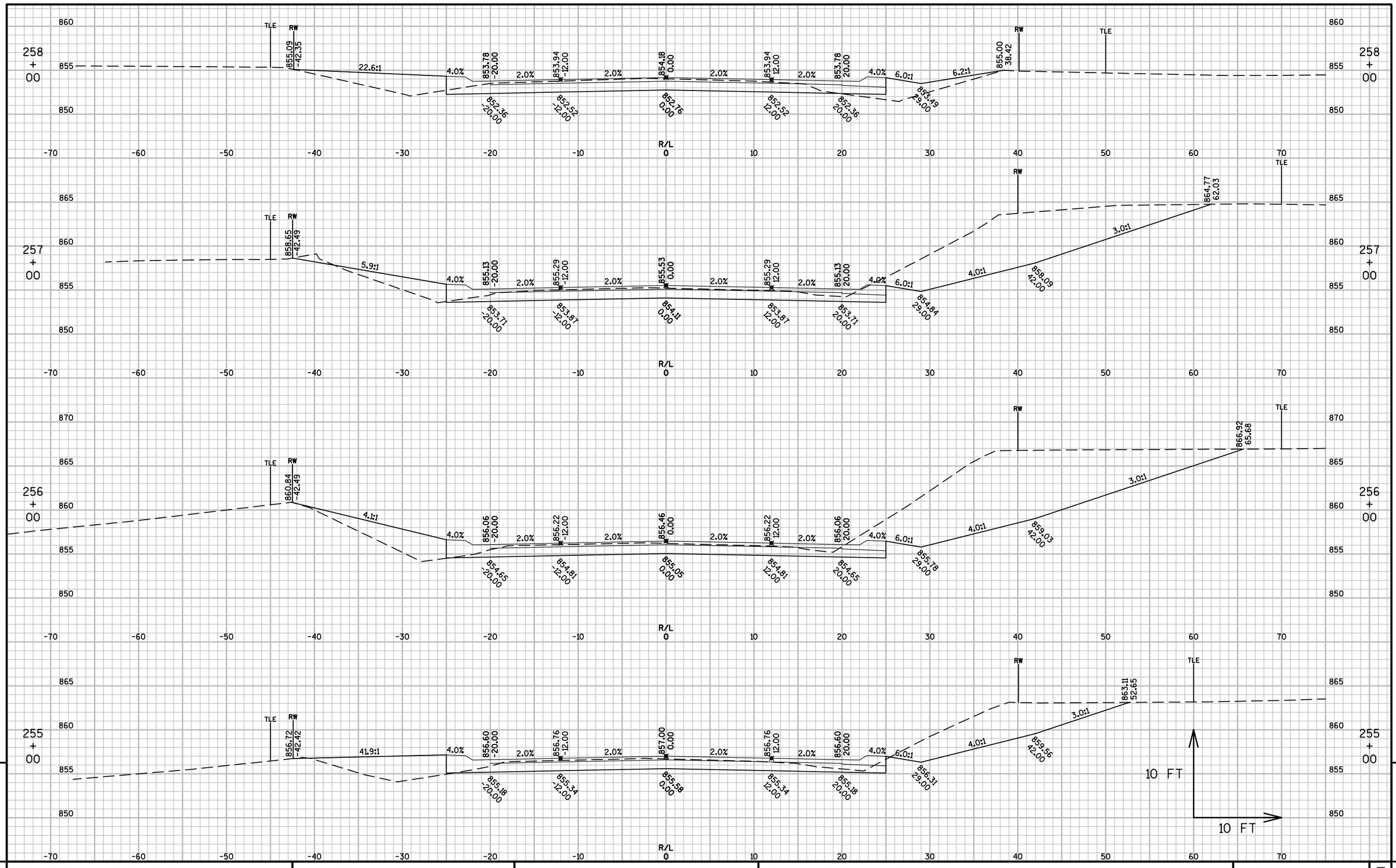
PLOT DATE : 6/4/2018 2:48 PM PLOT BY : MATT TOMSOVIC PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49



9

PROJECT NO: 6505-03-71	HWY: CTH A	COUNTY: OUTAGAMIE	CROSS SECTIONS: CTH A	SHEET 141	E



9

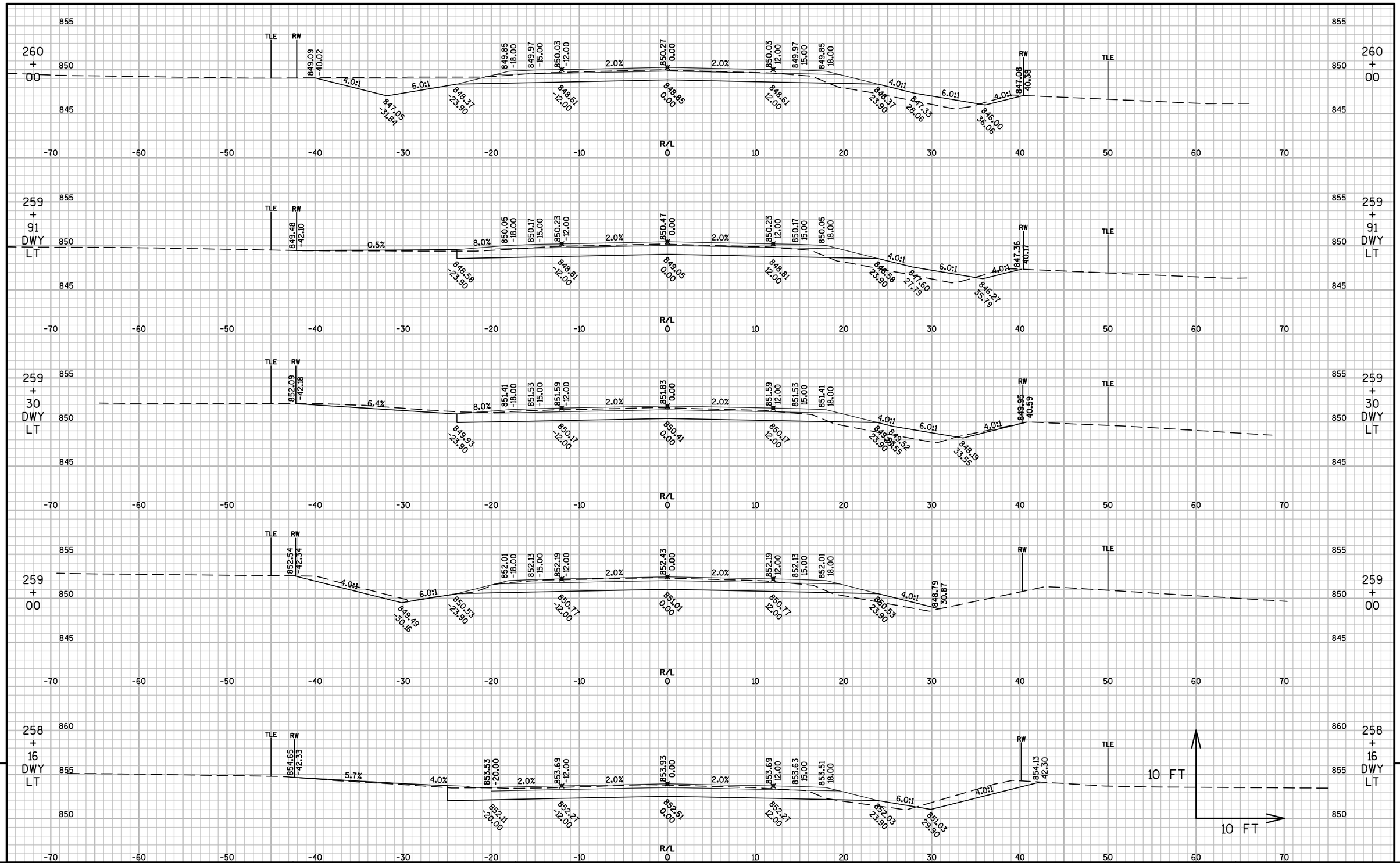
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PROJECT NO: 6505-03-71	HWY: CTH A	COUNTY: OUTAGAMIE	CROSS SECTIONS: CTH A	SHEET 142	E

FILE NAME : F:\TR\JOBS\E2182A15\CIVIL 3D 2014\SHEETSPLAN\65050371-090101-XS.DWG
LAYOUT NAME - 65050371-090109-XS

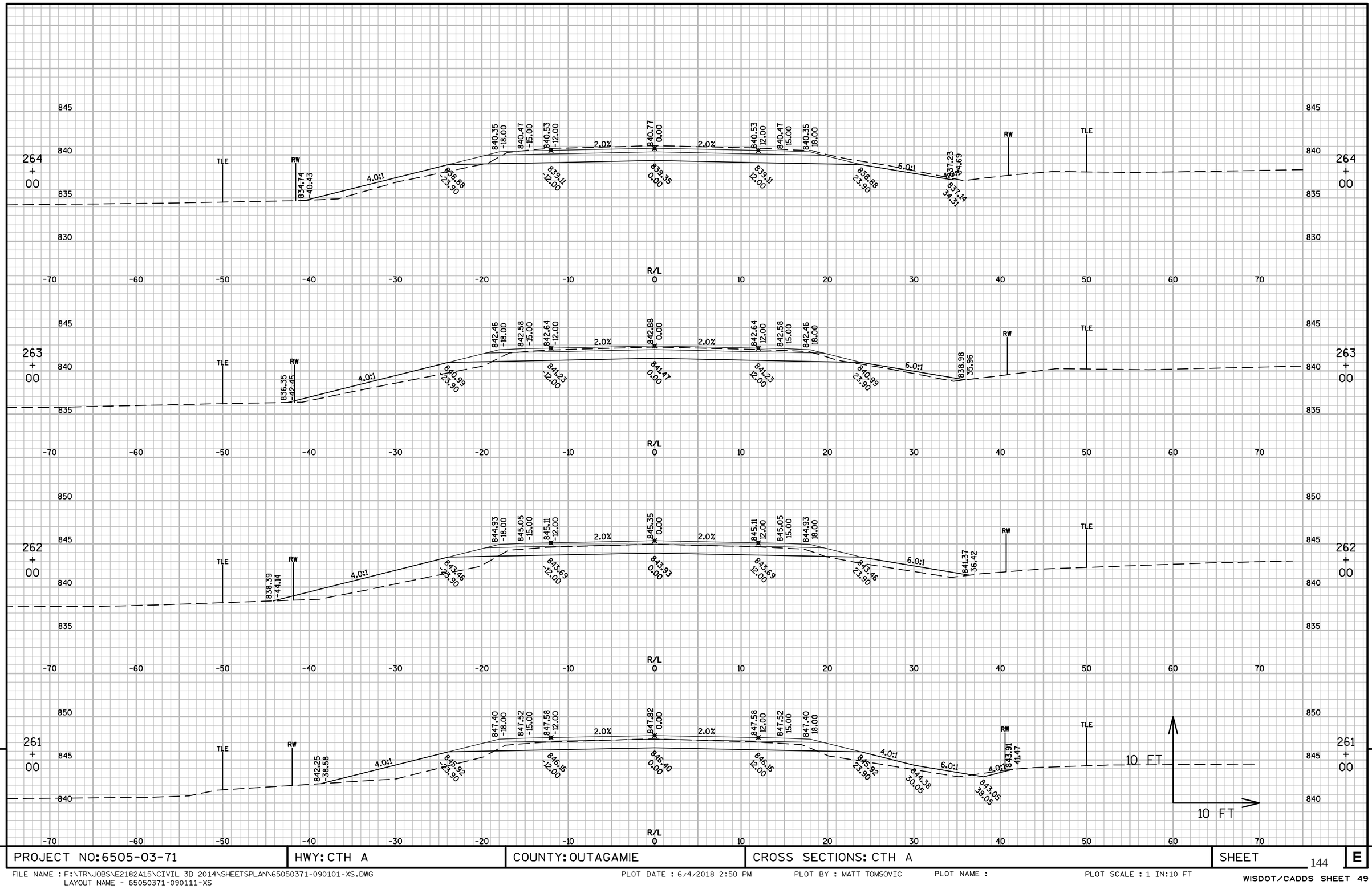
PLOT DATE : 6/4/2018 2:49 PM PLOT BY : MATT TOMSOVIC PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49



PROJECT NO: 6505-03-71	HWY: CTH A	COUNTY: OUTAGAMIE	CROSS SECTIONS: CTH A	SHEET	E

FILE NAME : F:\TR\JOBS\E2182A15\CIVIL 3D 2014\SHEETSPLAN\65050371-090101-XS.DWG
LAYOUT NAME - 65050371-090110-XS
PLOT DATE : 6/4/2018 2:50 PM
PLOT BY : MATT TOMSOVIC
PLOT NAME :
PLOT SCALE : 1 IN:10 FT
WISDOT/CADDS SHEET 49



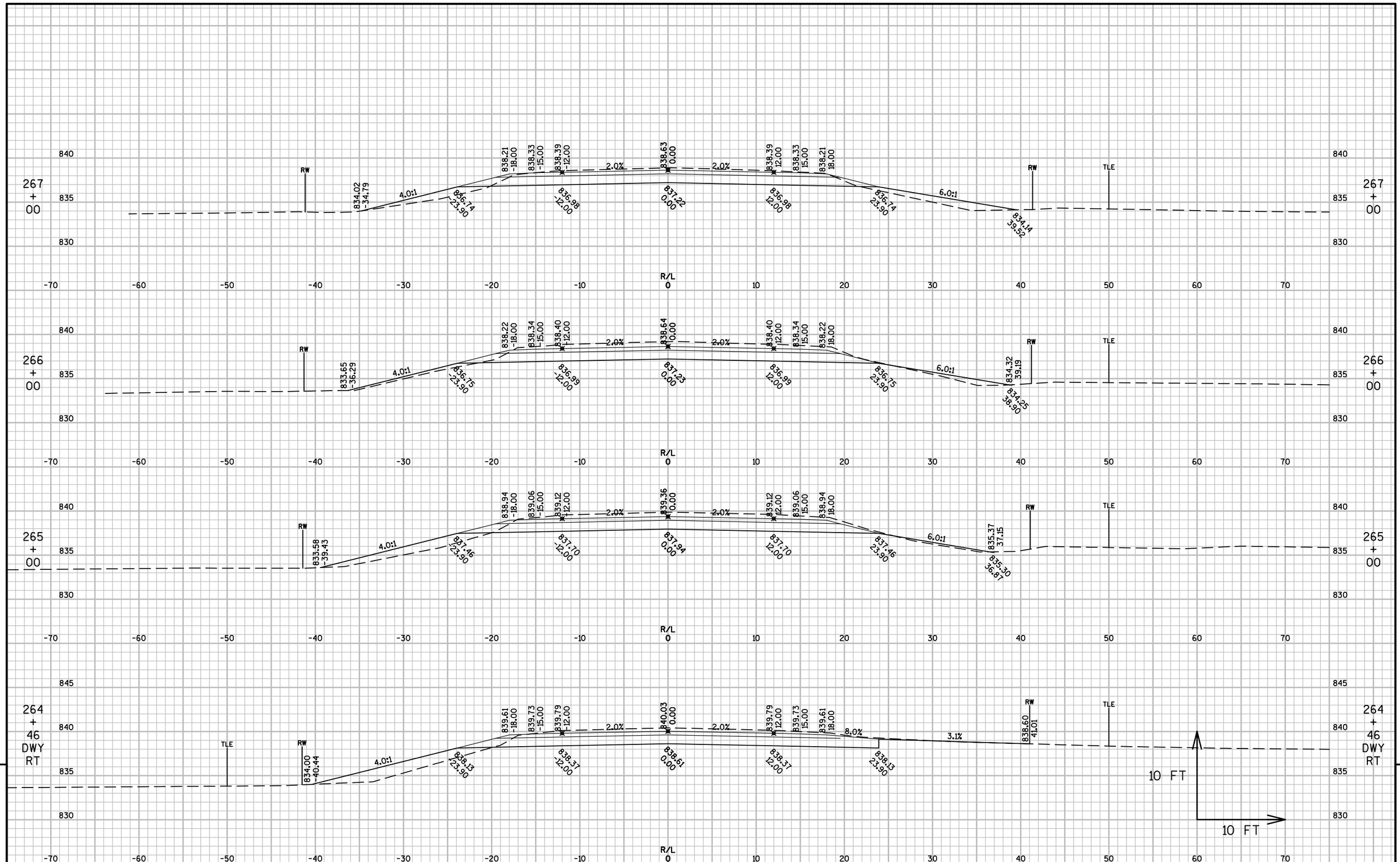
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PROJECT NO: 6505-03-71	HWY: CTH A	COUNTY: OUTAGAMIE	CROSS SECTIONS: CTH A	SHEET 144 E

FILE NAME : F:\TR\JOBS\E2182A15\CIVIL 3D 2014\SHEETSPLAN\65050371-090101-XS.DWG
LAYOUT NAME - 65050371-090111-XS

PLOT DATE : 6/4/2018 2:50 PM PLOT BY : MATT TOMSOVIC PLOT NAME : PLOT SCALE : 1 IN:10 FT



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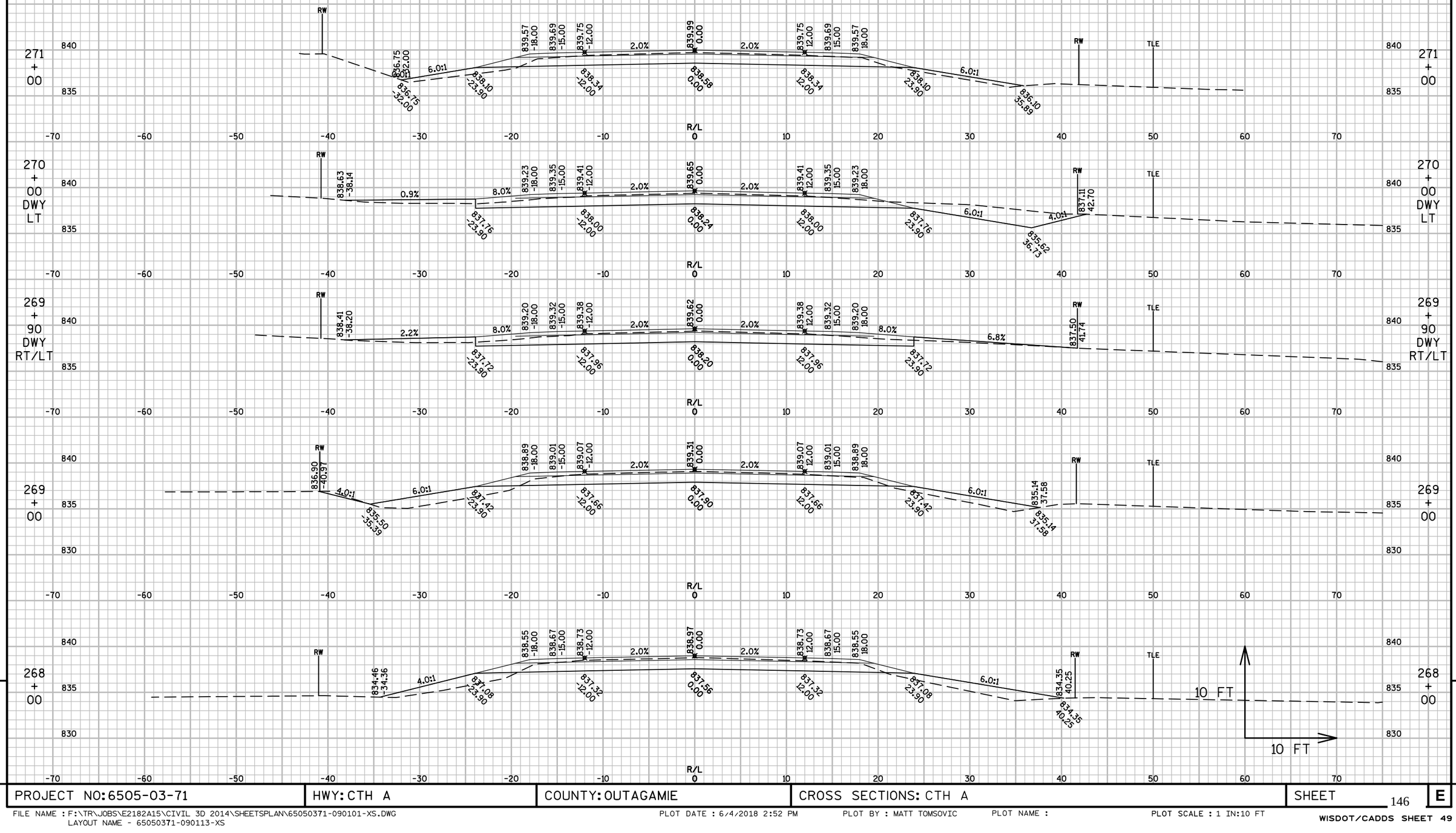
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PROJECT NO: 6505-03-71	HWY: CTH A	COUNTY: OUTAGAMIE	CROSS SECTIONS: CTH A	SHEET 145	E

FILE NAME : F:\TR\JOBS\E2182A15\CIVIL 3D 2014\SHEETSPLAN\65050371-090101-XS.DWG
LAYOUT NAME - 65050371-090112-XS

PLOT DATE : 6/4/2018 2:51 PM PLOT BY : MATT TOMSOVIC PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49

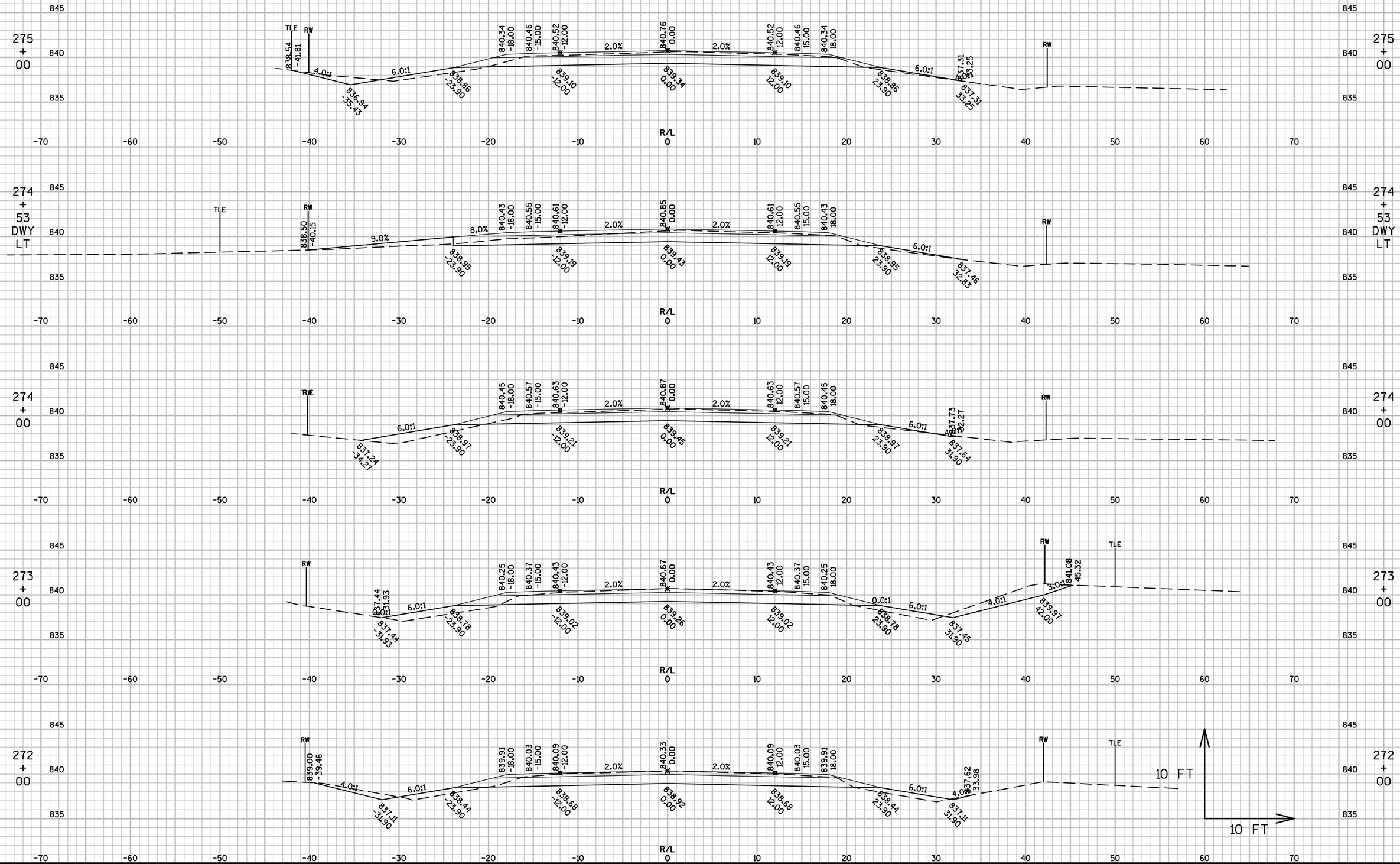


PROJECT NO: 6505-03-71	HWY: CTH A	COUNTY: OUTAGAMIE	CROSS SECTIONS: CTH A	SHEET	E

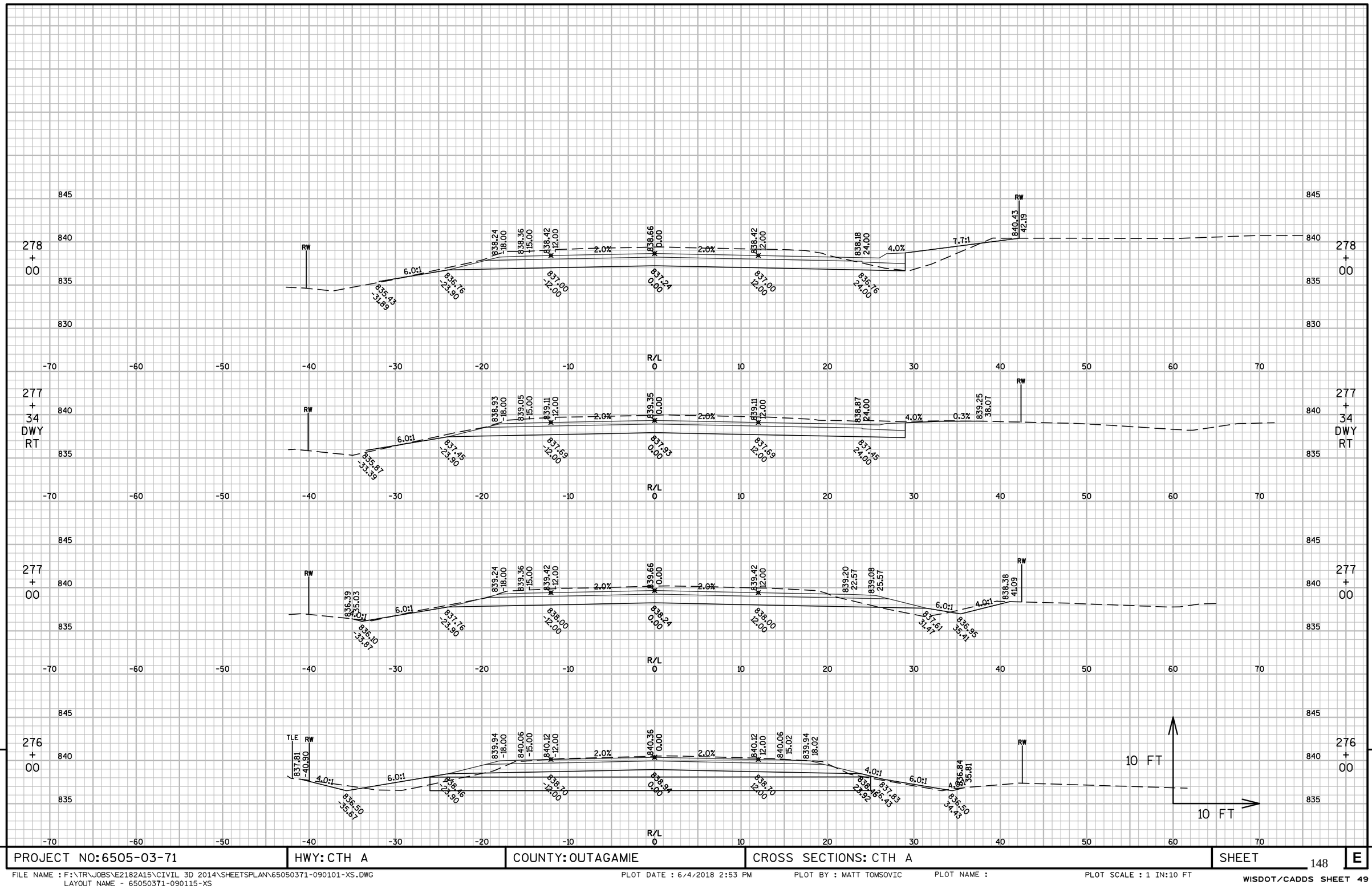
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LAYOUT NAME - 65050371-090113-XS

PLOT DATE : 6/4/2018 2:52 PM PLOT BY : MATT TOMSOVIC PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49

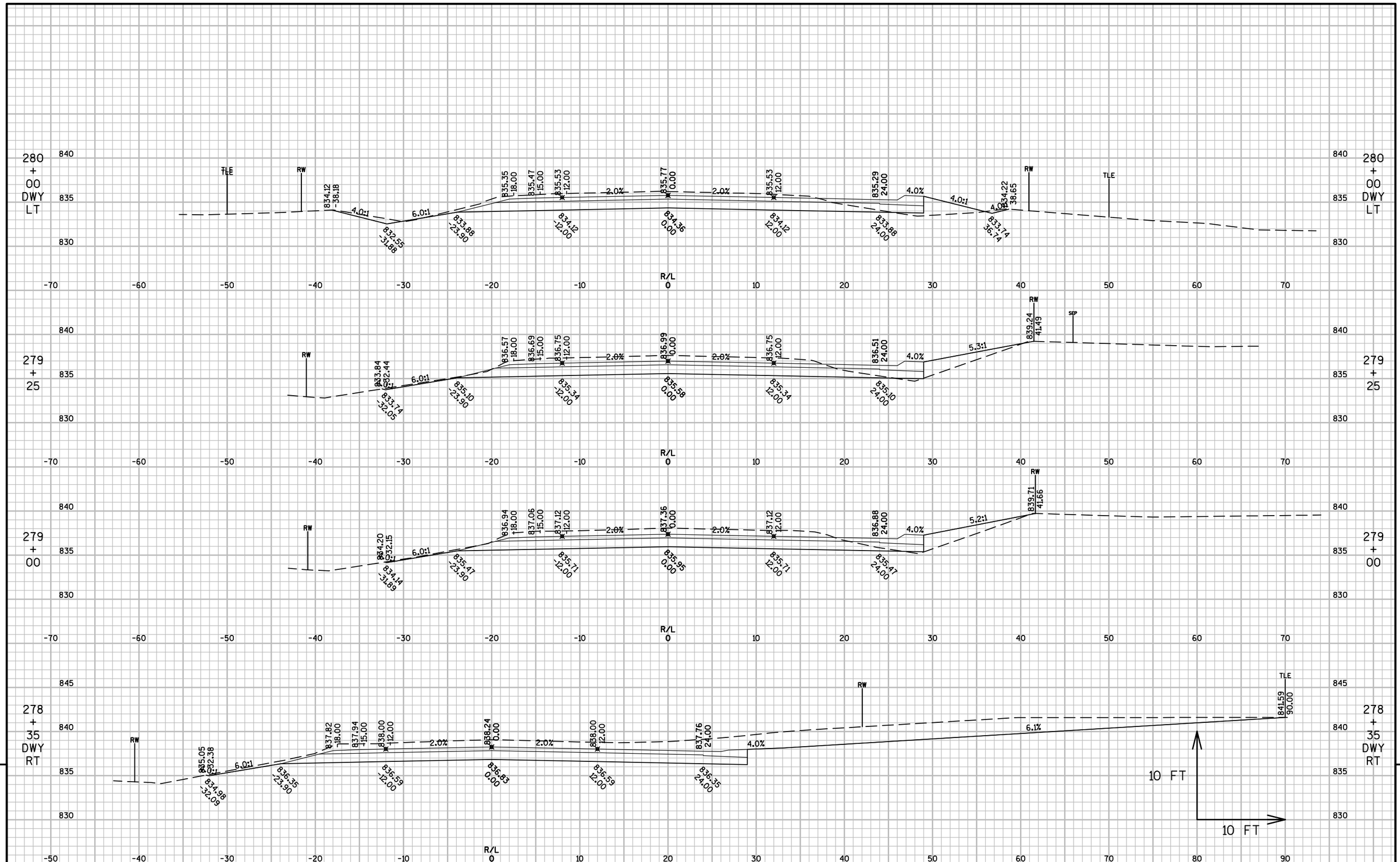


PROJECT NO: 6505-03-71	HWY: CTH A	COUNTY: OUTAGAMIE	CROSS SECTIONS: CTH A	SHEET 147	E



9

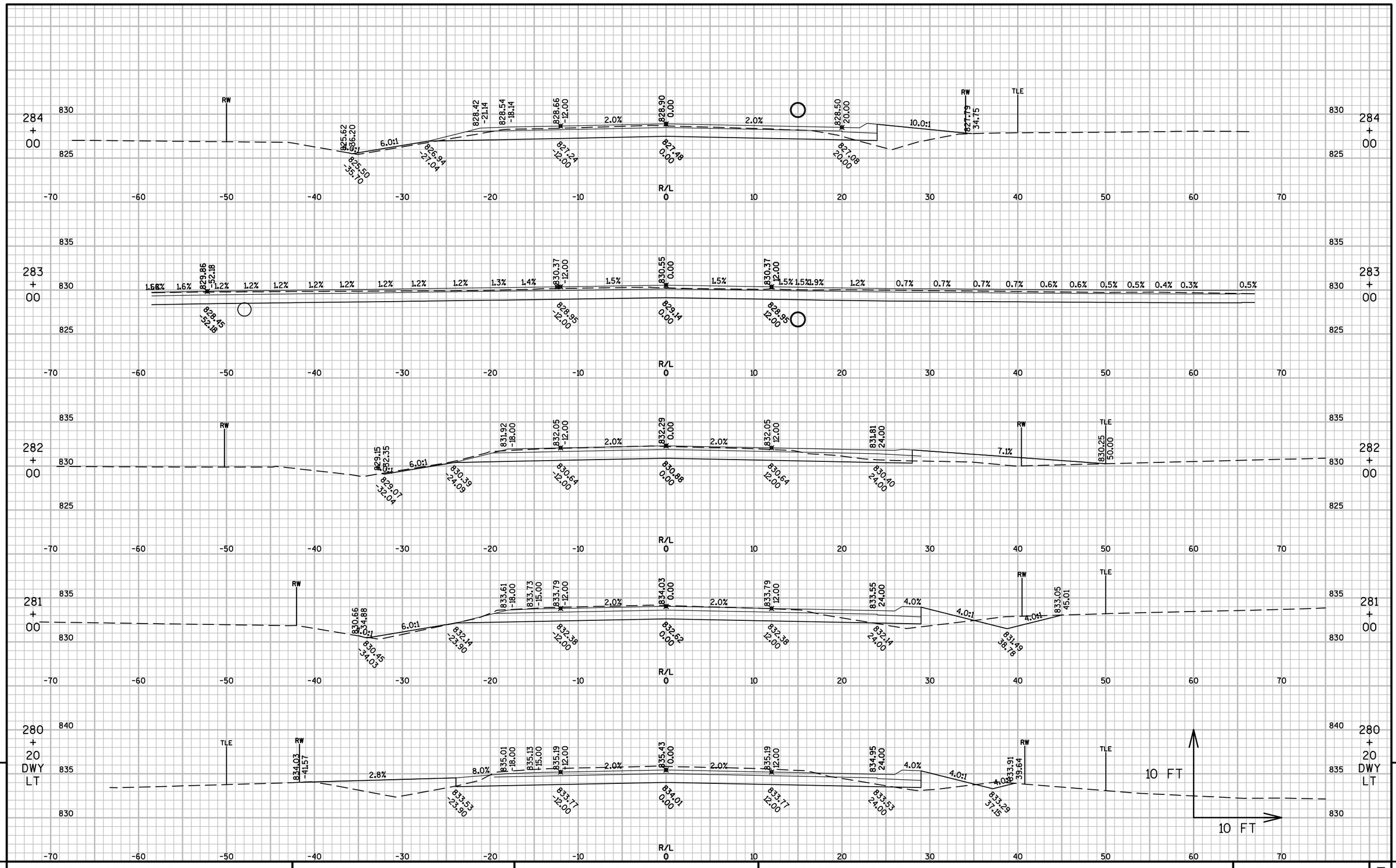
PROJECT NO: 6505-03-71	HWY: CTH A	COUNTY: OUTAGAMIE	CROSS SECTIONS: CTH A	SHEET 148	E



9

9

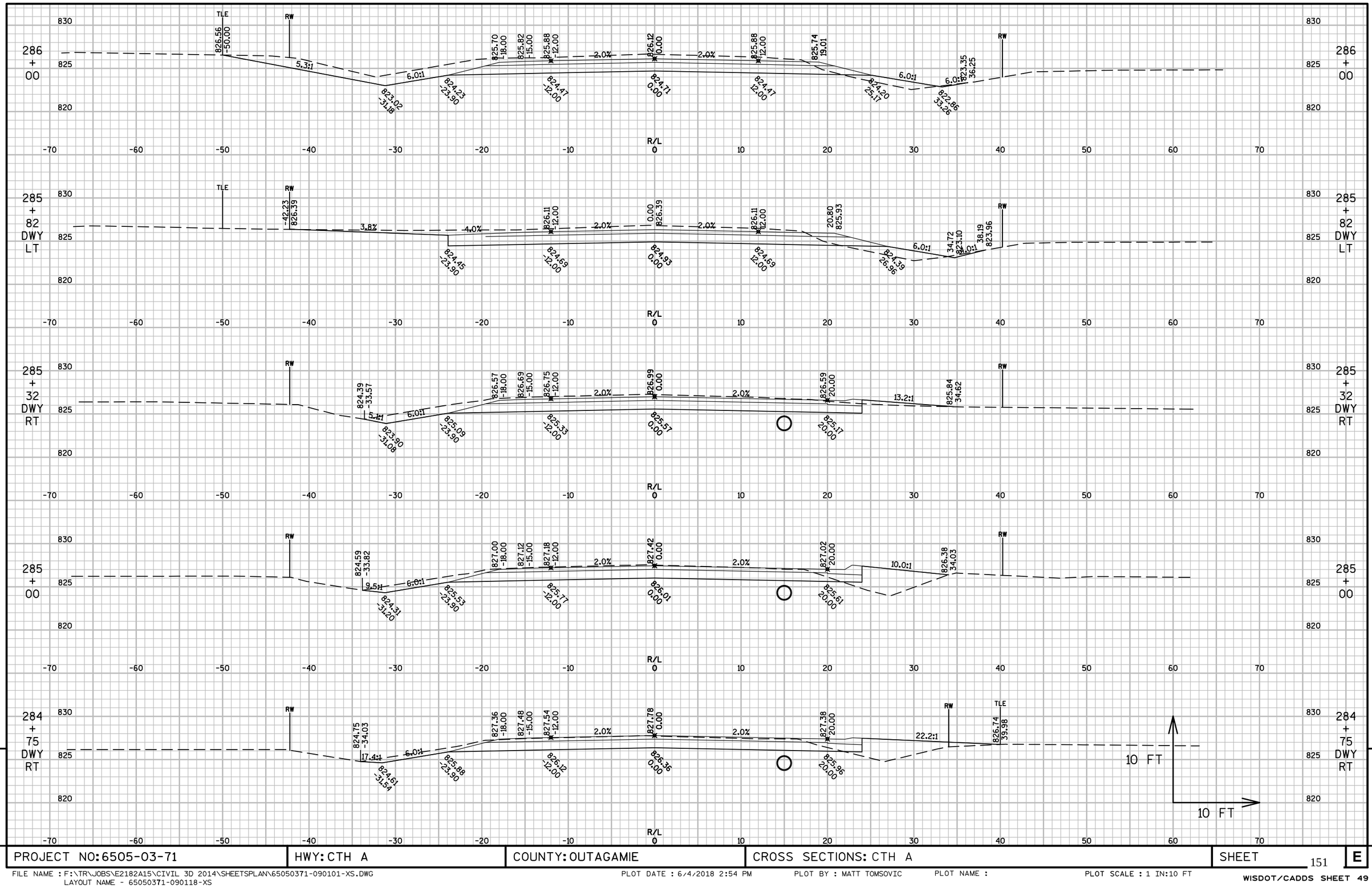
PROJECT NO: 6505-03-71	HWY: CTH A	COUNTY: OUTAGAMIE	CROSS SECTIONS: CTH A	SHEET 149	E



PROJECT NO: 6505-03-71	HWY: CTH A	COUNTY: OUTAGAMIE	CROSS SECTIONS: CTH A	SHEET 150	E

FILE NAME : F:\TR\JOBS\E2182A15\CIVIL 3D 2014\SHEETSPLAN\65050371-090101-XS.DWG
LAYOUT NAME - 65050371-090117-XS

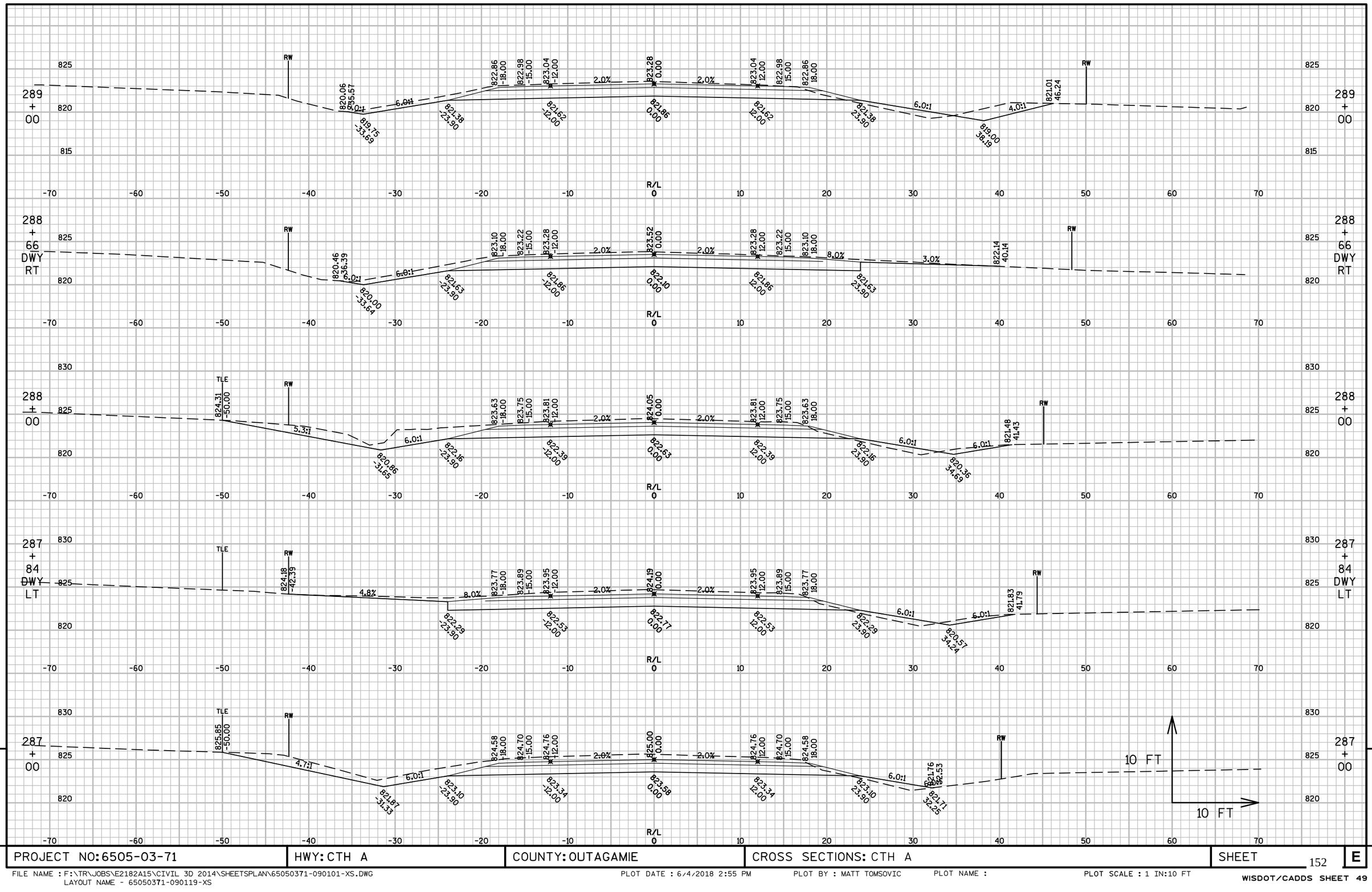
PLOT DATE : 6/4/2018 2:54 PM PLOT BY : MATT TOMSOVIC PLOT NAME : PLOT SCALE : 1 IN:10 FT



PROJECT NO: 6505-03-71	HWY: CTH A	COUNTY: OUTAGAMIE	CROSS SECTIONS: CTH A	SHEET	E

FILE NAME : F:\TR\JOBS\E2182A15\CIVIL 3D 2014\SHEETSPLAN\65050371-090101-XS.DWG
LAYOUT NAME - 65050371-090118-XS

PLOT DATE : 6/4/2018 2:54 PM PLOT BY : MATT TOMSOVIC PLOT NAME : PLOT SCALE : 1 IN:10 FT



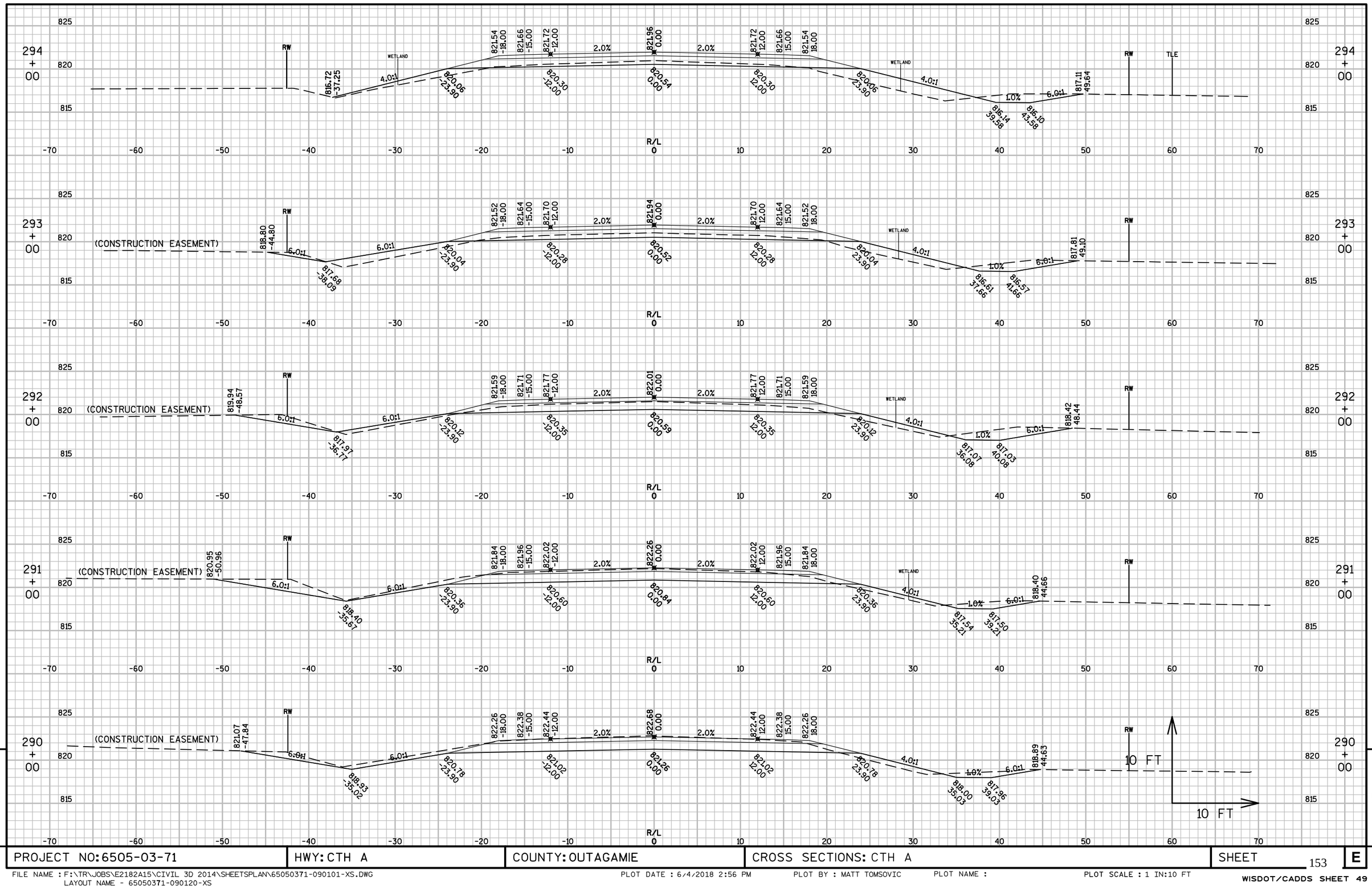
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PROJECT NO: 6505-03-71	HWY: CTH A	COUNTY: OUTAGAMIE	CROSS SECTIONS: CTH A	SHEET	E

FILE NAME : F:\TR\JOBS\E2182A15\CIVIL 3D 2014\SHEETSPLAN\65050371-090101-XS.DWG
LAYOUT NAME - 65050371-090119-XS

PLOT DATE : 6/4/2018 2:55 PM PLOT BY : MATT TOMSOVIC PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49



9

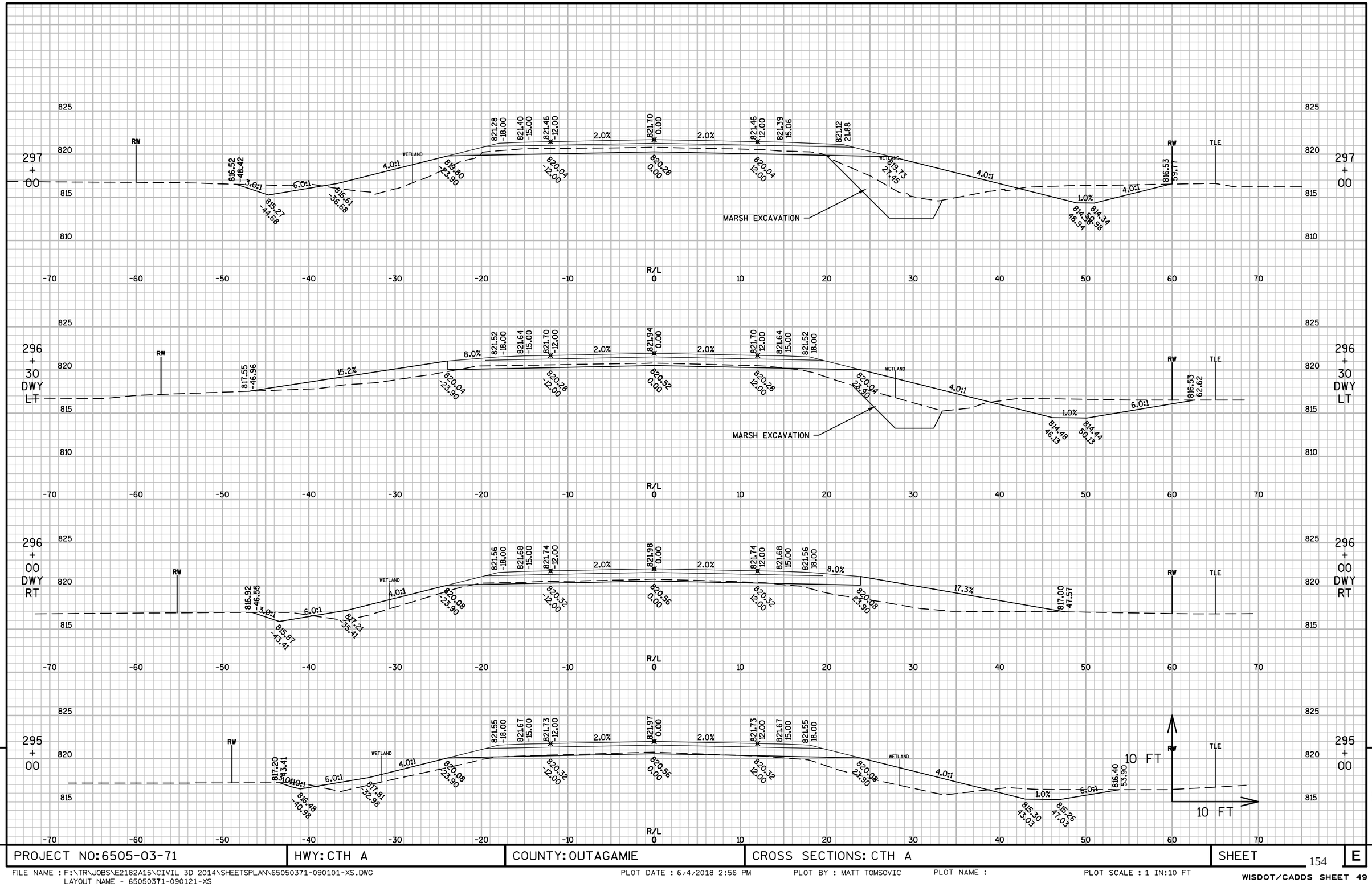
PROJECT NO: 6505-03-71	HWY: CTH A	COUNTY: OUTAGAMIE	CROSS SECTIONS: CTH A	SHEET 153	E

FILE NAME : F:\TR\JOBS\E2182A15\CIVIL 3D 2014\SHEETSPLAN\65050371-090101-XS.DWG
LAYOUT NAME - 65050371-090120-XS

PLOT DATE : 6/4/2018 2:56 PM PLOT BY : MATT TOMSOVIC PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49

9



9

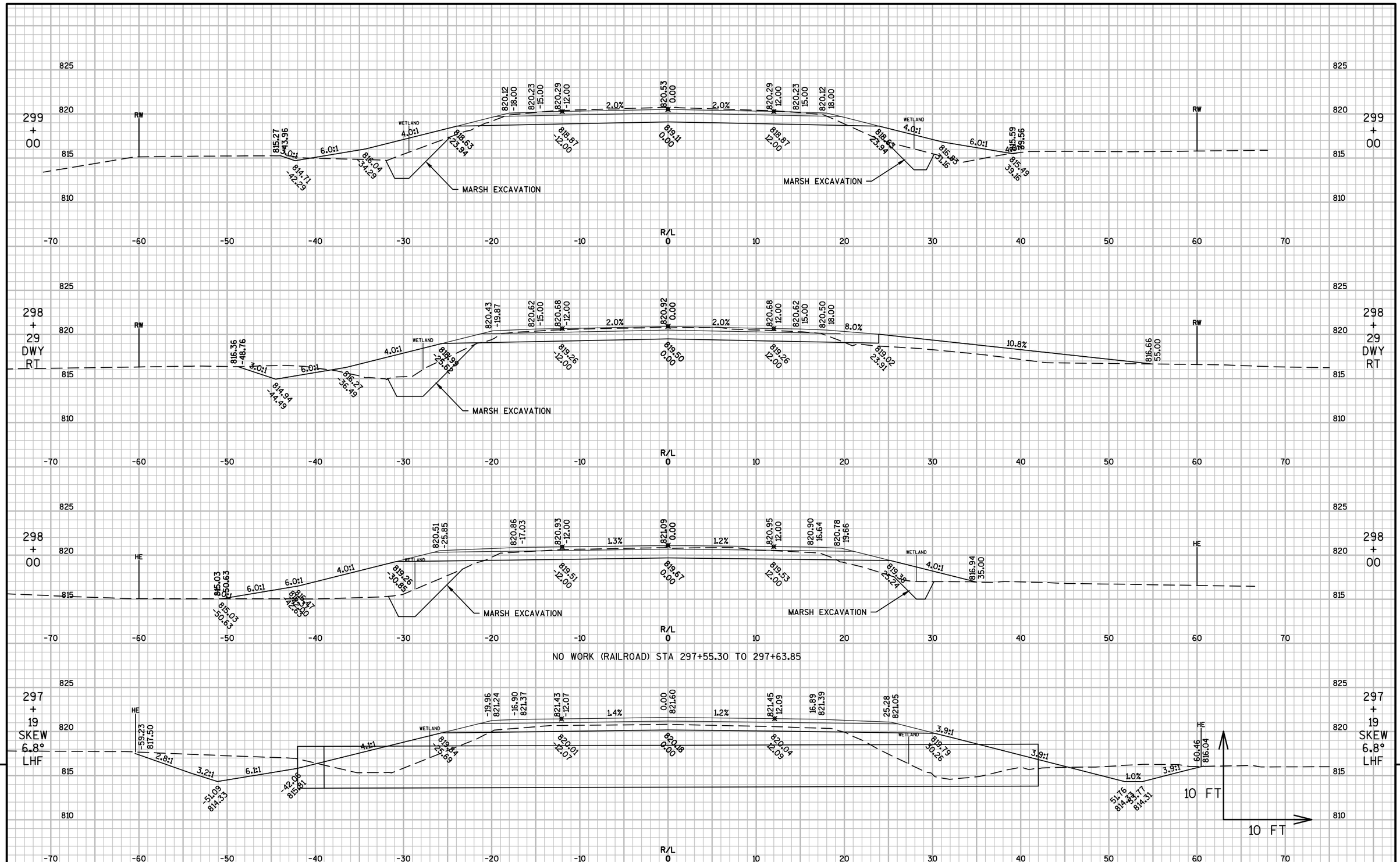
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PROJECT NO: 6505-03-71	HWY: CTH A	COUNTY: OUTAGAMIE	CROSS SECTIONS: CTH A	SHEET 154	E

FILE NAME : F:\TR\JOBS\E2182A15\CIVIL 3D 2014\SHEETSPLAN\65050371-090101-XS.DWG
LAYOUT NAME - 65050371-090121-XS

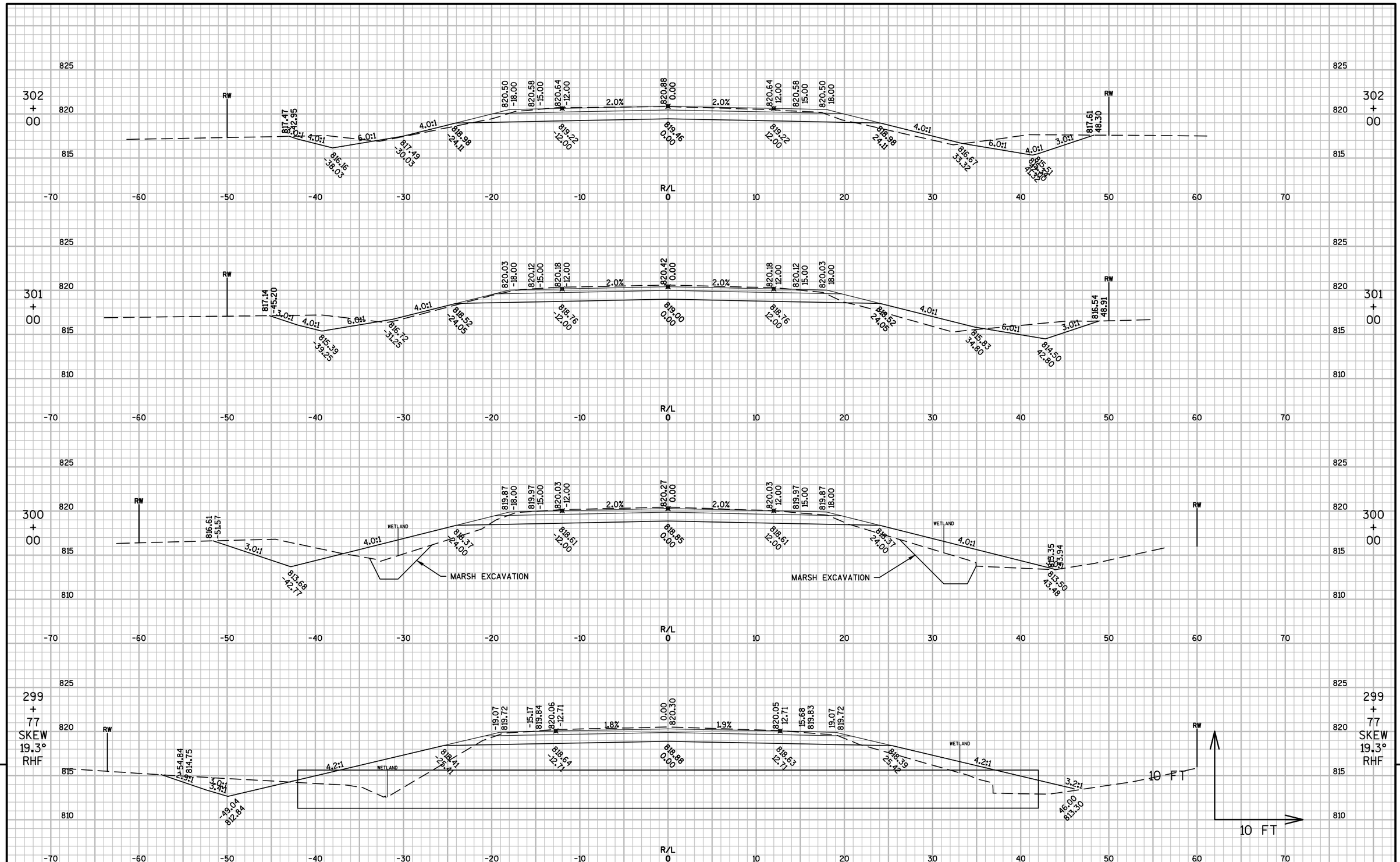
PLOT DATE : 6/4/2018 2:56 PM PLOT BY : MATT TOMSOVIC PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49

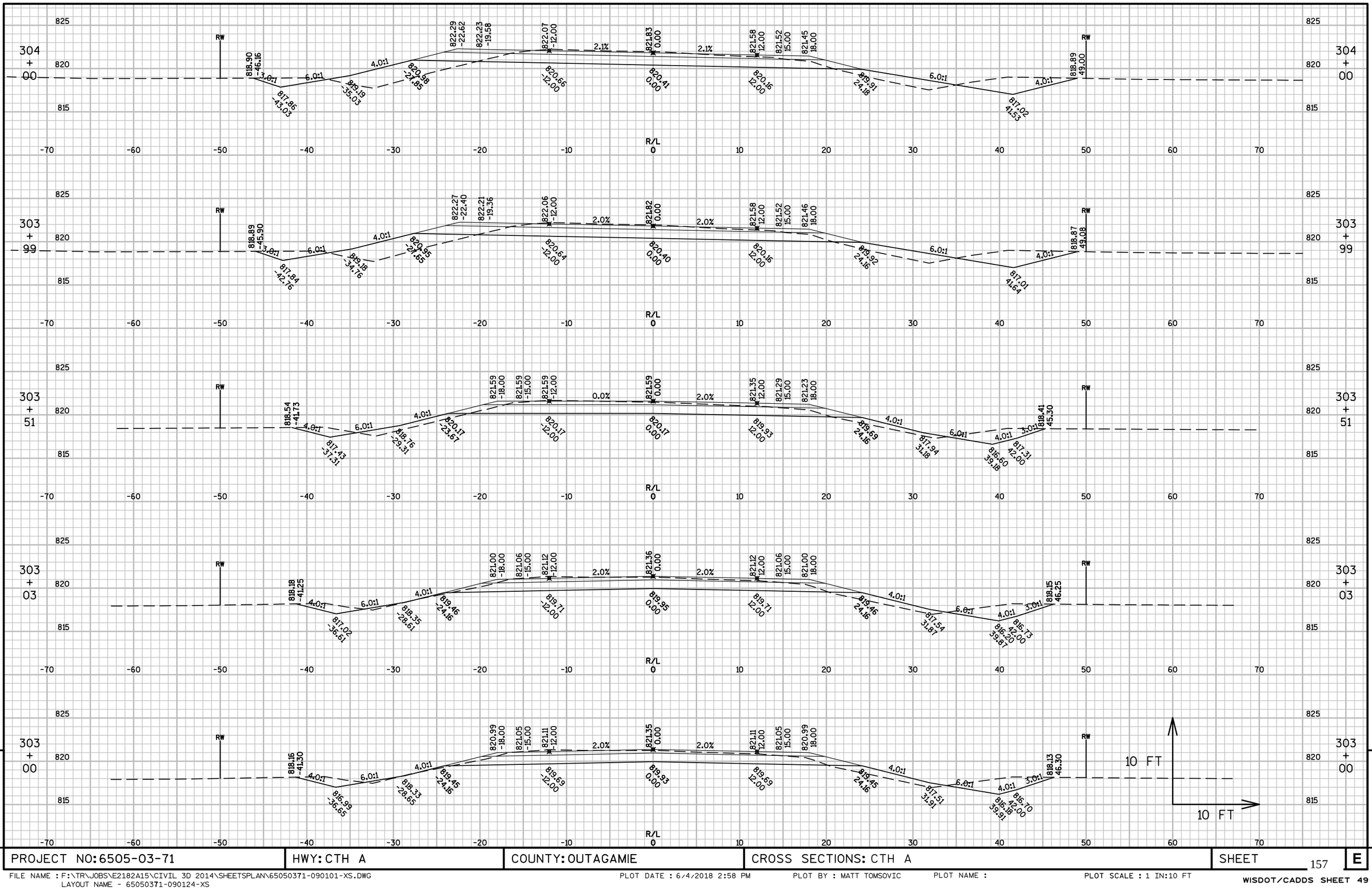


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PROJECT NO: 6505-03-71	HWY: CTH A	COUNTY: OUTAGAMIE	CROSS SECTIONS: CTH A	SHEET 155	E



9	PROJECT NO: 6505-03-71	HWY: CTH A	COUNTY: OUTAGAMIE	CROSS SECTIONS: CTH A	SHEET 156 E



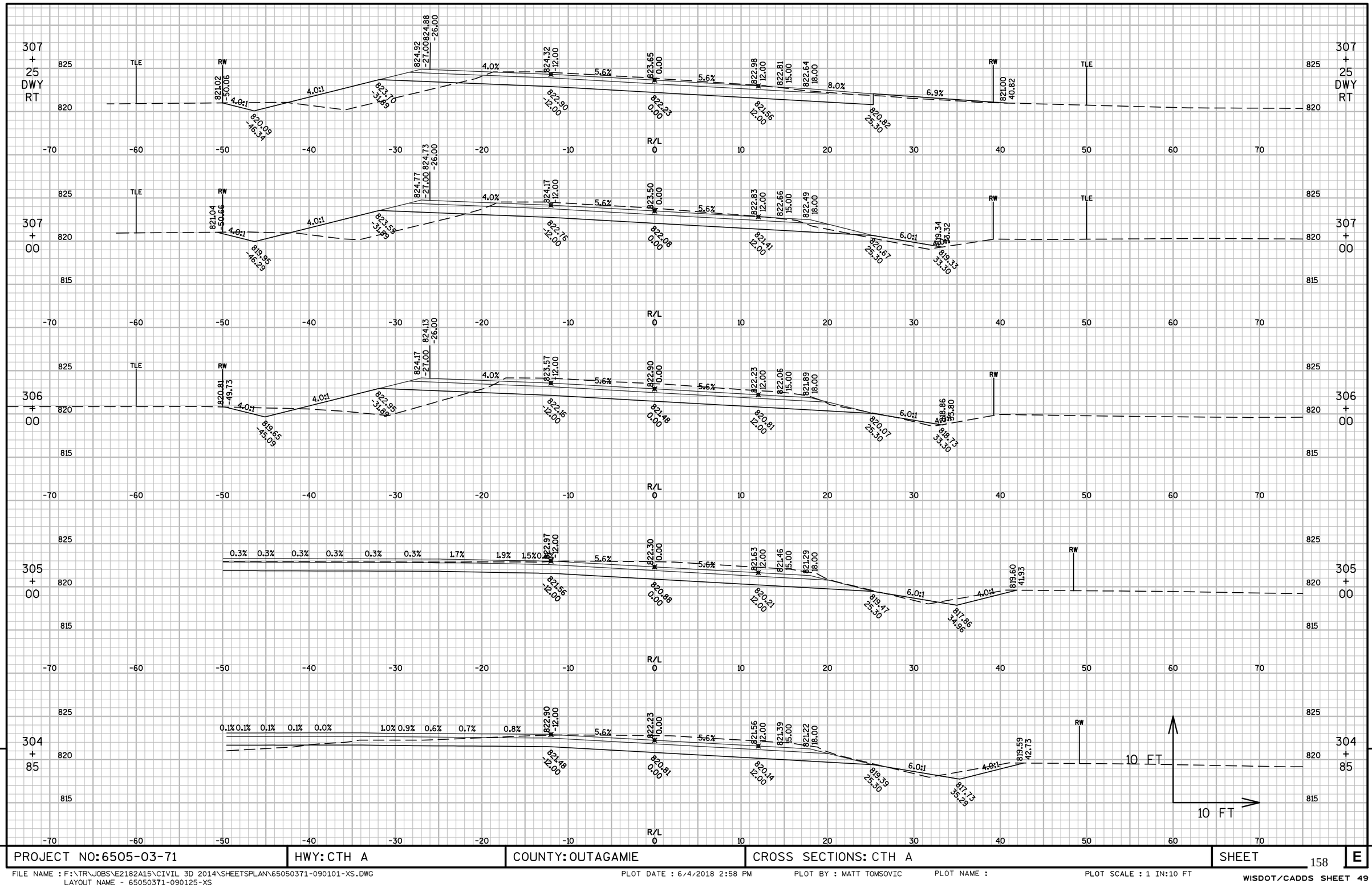
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PROJECT NO: 6505-03-71	HWY: CTH A	COUNTY: OUTAGAMIE	CROSS SECTIONS: CTH A	SHEET	E

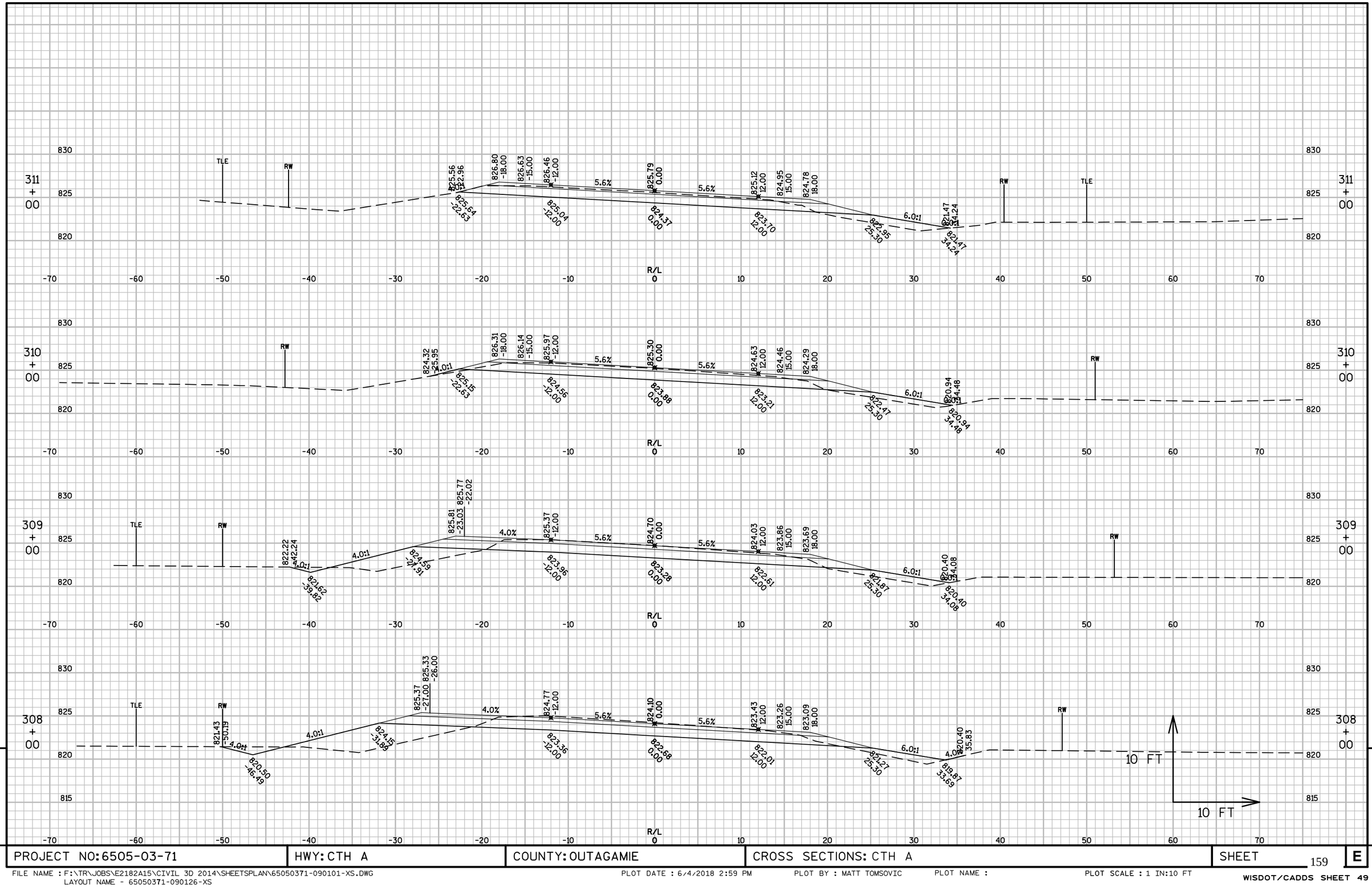
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LAYOUT NAME - 65050371-090124-XS

PLOT DATE : 6/4/2018 2:58 PM PLOT BY : MATT TOMSOVIC PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49



PROJECT NO: 6505-03-71	HWY: CTH A	COUNTY: OUTAGAMIE	CROSS SECTIONS: CTH A	SHEET 158	E

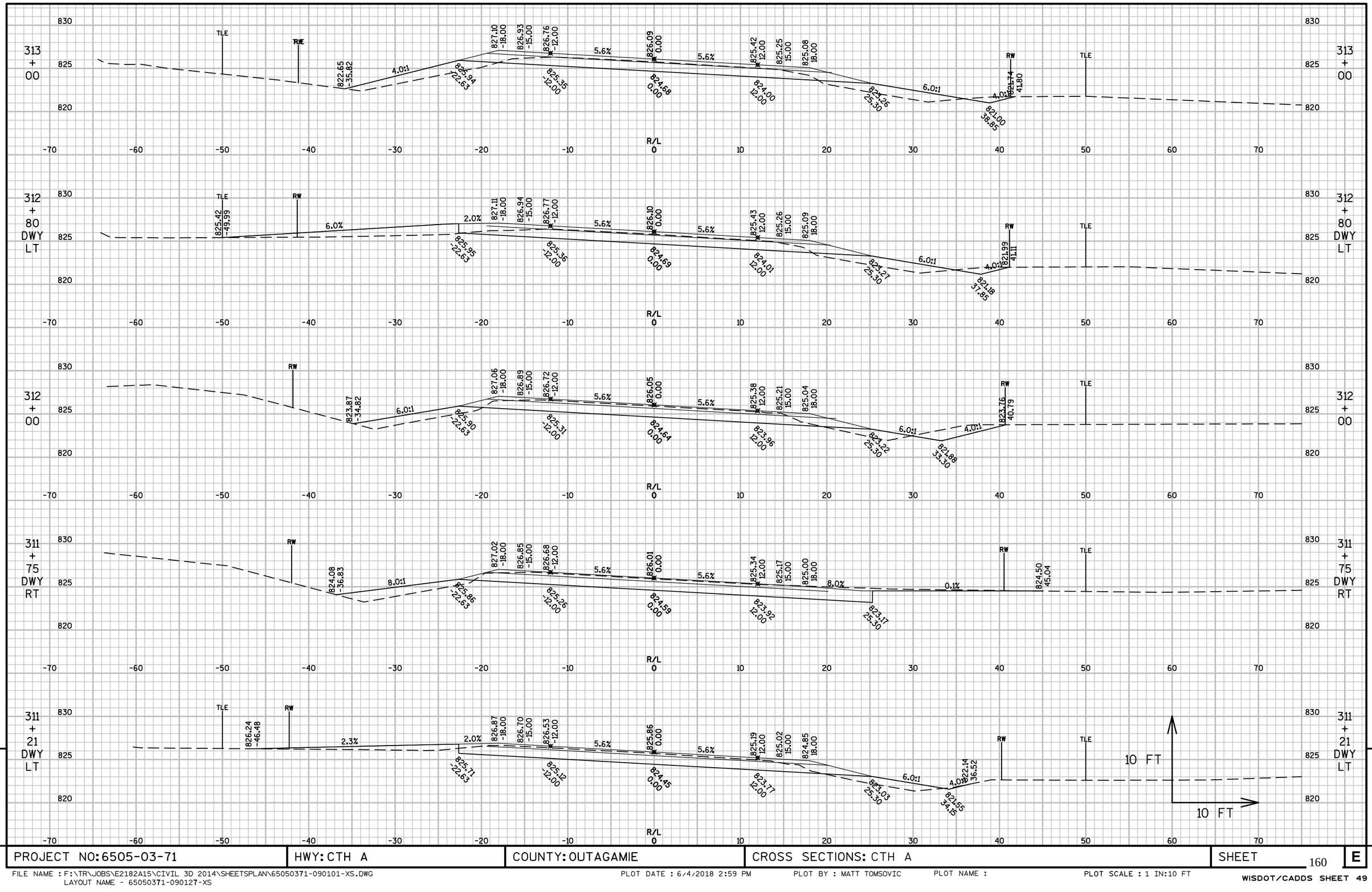


PROJECT NO: 6505-03-71	HWY: CTH A	COUNTY: OUTAGAMIE	CROSS SECTIONS: CTH A	SHEET 159	E

FILE NAME : F:\TR\JOBS\E2182A15\CIVIL 3D 2014\SHEETSPLAN\65050371-090101-XS.DWG
LAYOUT NAME - 65050371-090126-XS

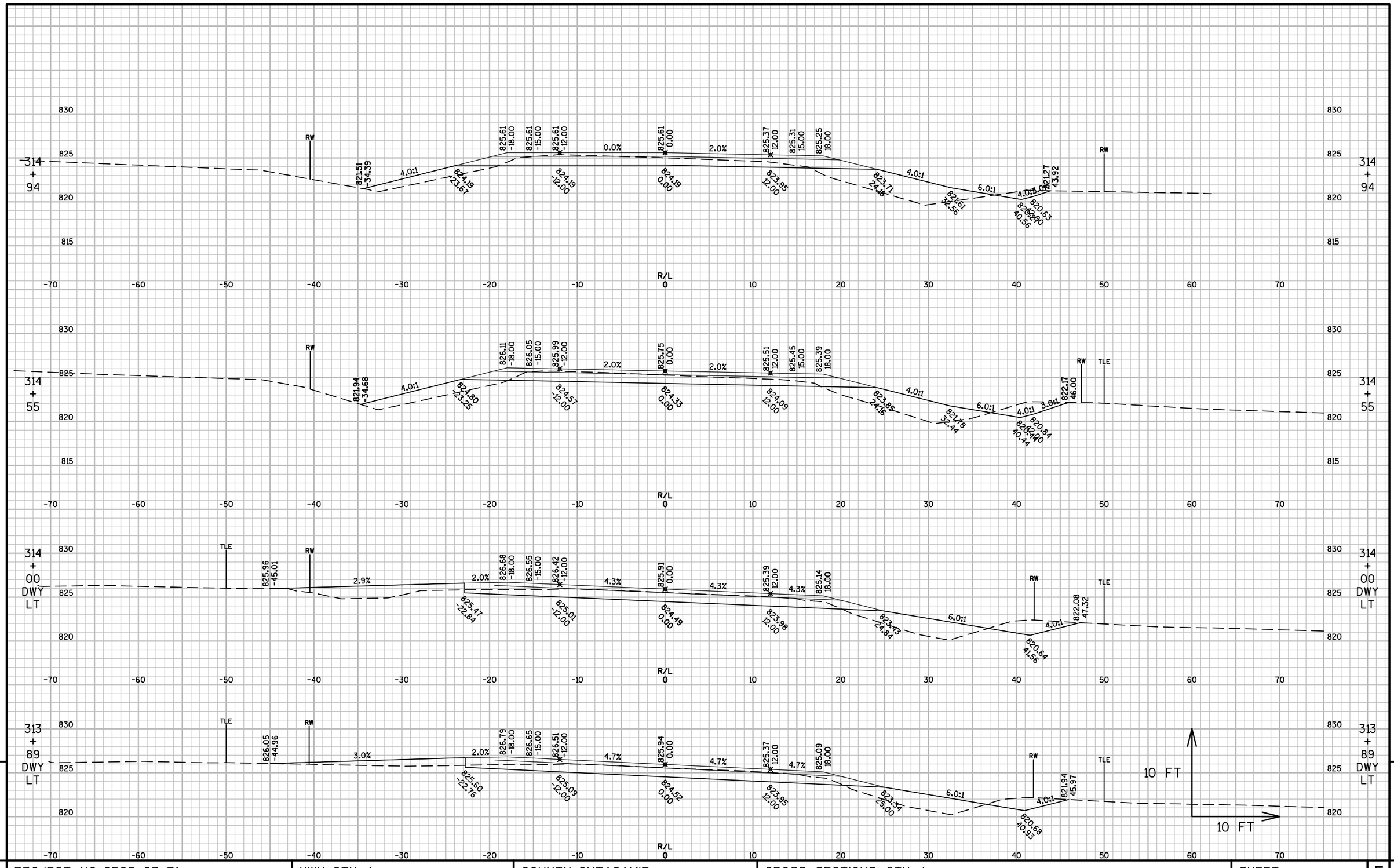
PLOT DATE : 6/4/2018 2:59 PM PLOT BY : MATT TOMSOVIC PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49



9

PROJECT NO: 6505-03-71	HWY: CTH A	COUNTY: OUTAGAMIE	CROSS SECTIONS: CTH A	SHEET 160	E



9

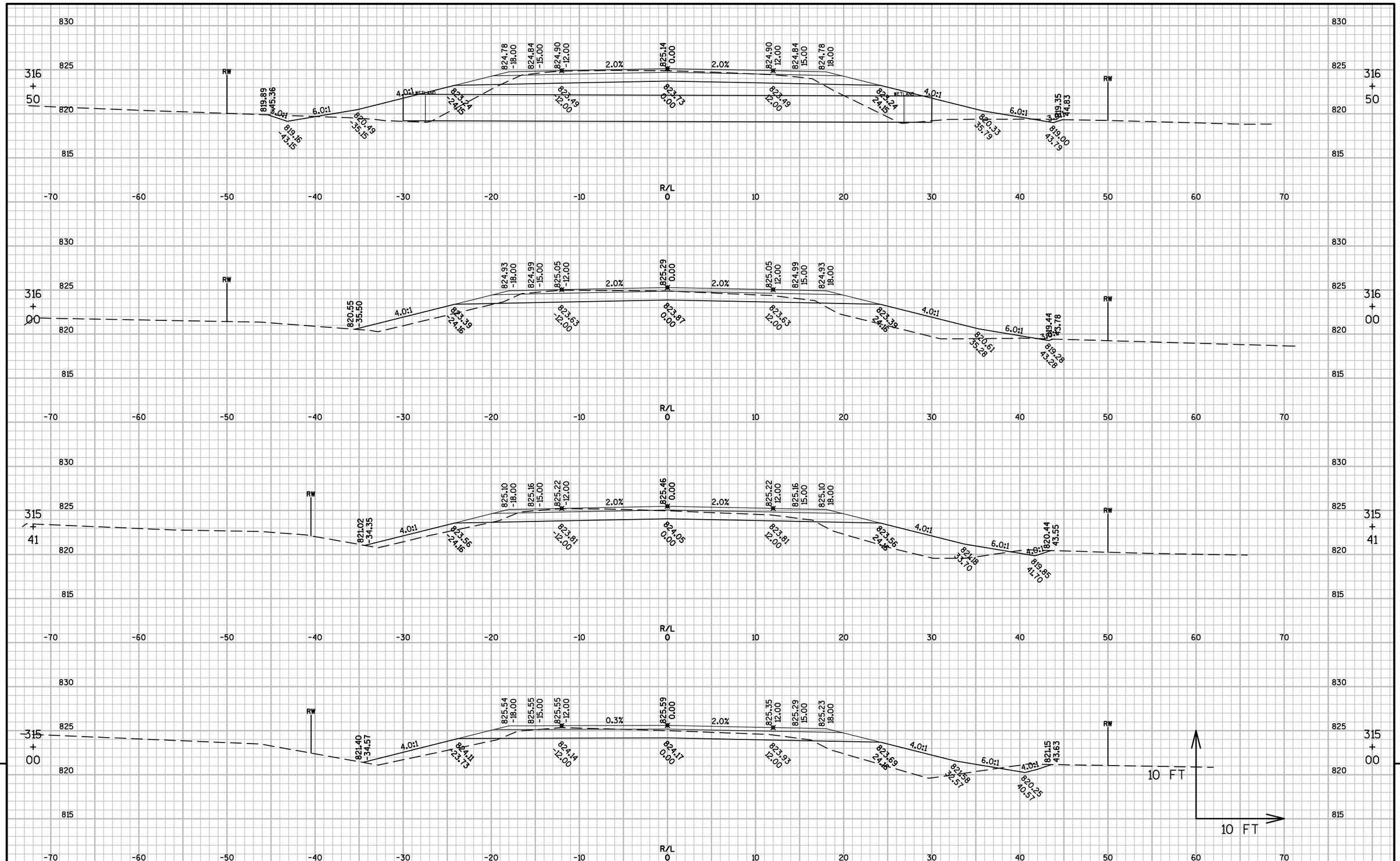
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PROJECT NO: 6505-03-71	HWY: CTH A	COUNTY: OUTAGAMIE	CROSS SECTIONS: CTH A	SHEET 161	E

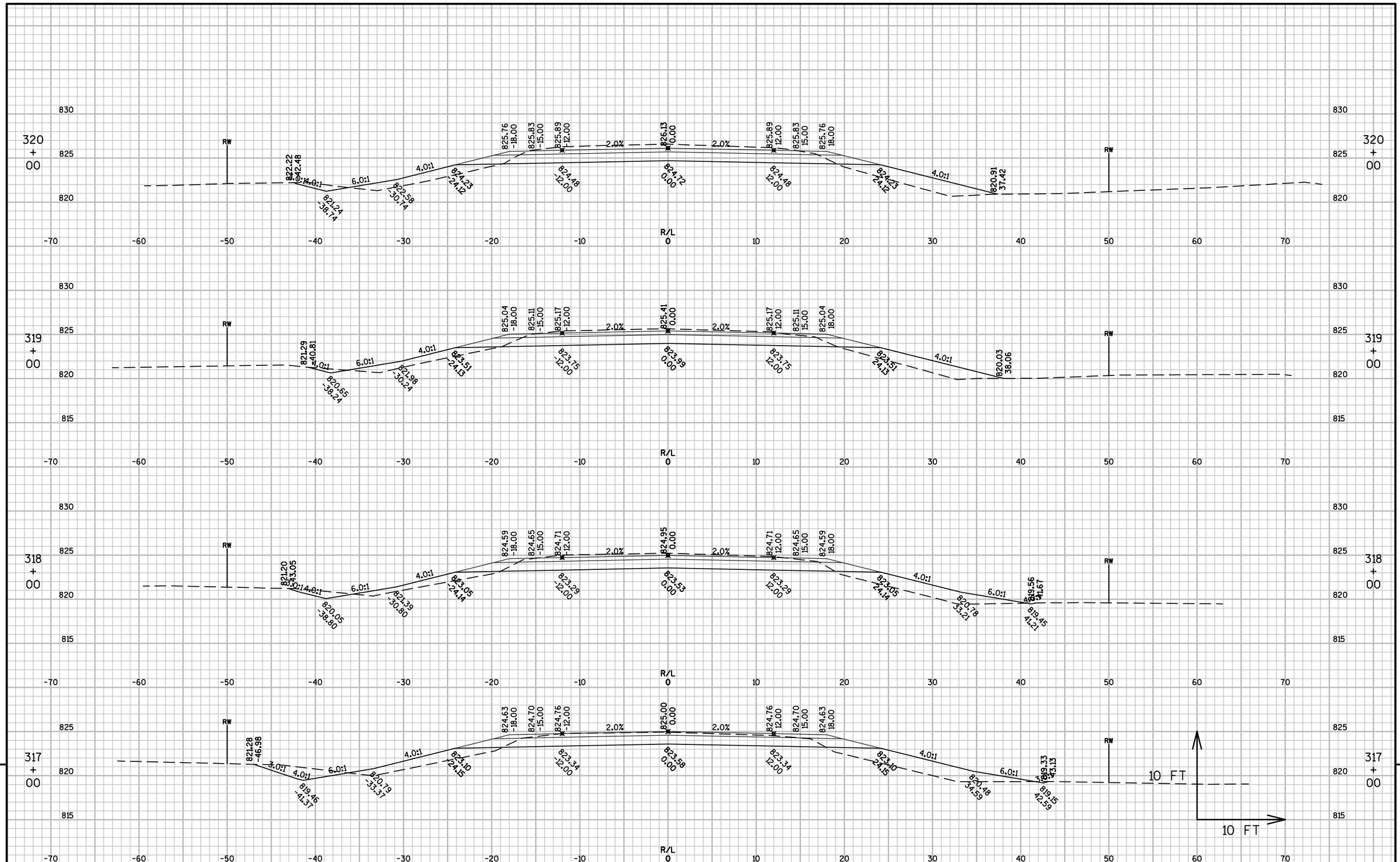
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LAYOUT NAME - 65050371-090128-XS

PLOT DATE : 6/4/2018 3:00 PM PLOT BY : MATT TOMSOVIC PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49



PROJECT NO: 6505-03-71	HWY: CTH A	COUNTY: OUTAGAMIE	CROSS SECTIONS: CTH A	SHEET 162 E



9

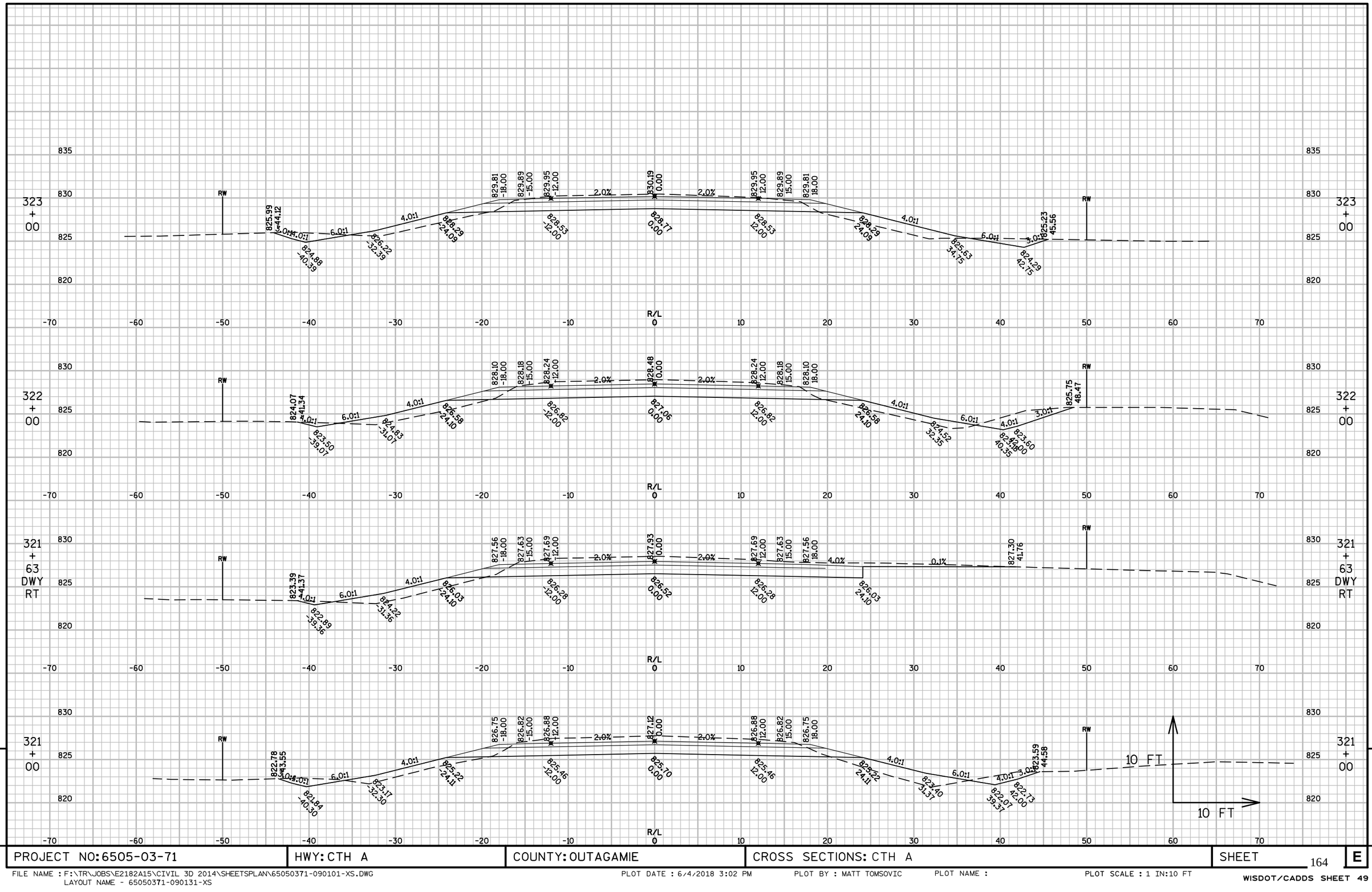
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PROJECT NO: 6505-03-71	HWY: CTH A	COUNTY: OUTAGAMIE	CROSS SECTIONS: CTH A	SHEET 163	E

FILE NAME : F:\TR\JOBS\E2182A15\CIVIL 3D 2014\SHEETSPLAN\65050371-090101-XS.DWG
LAYOUT NAME - 65050371-090130-XS

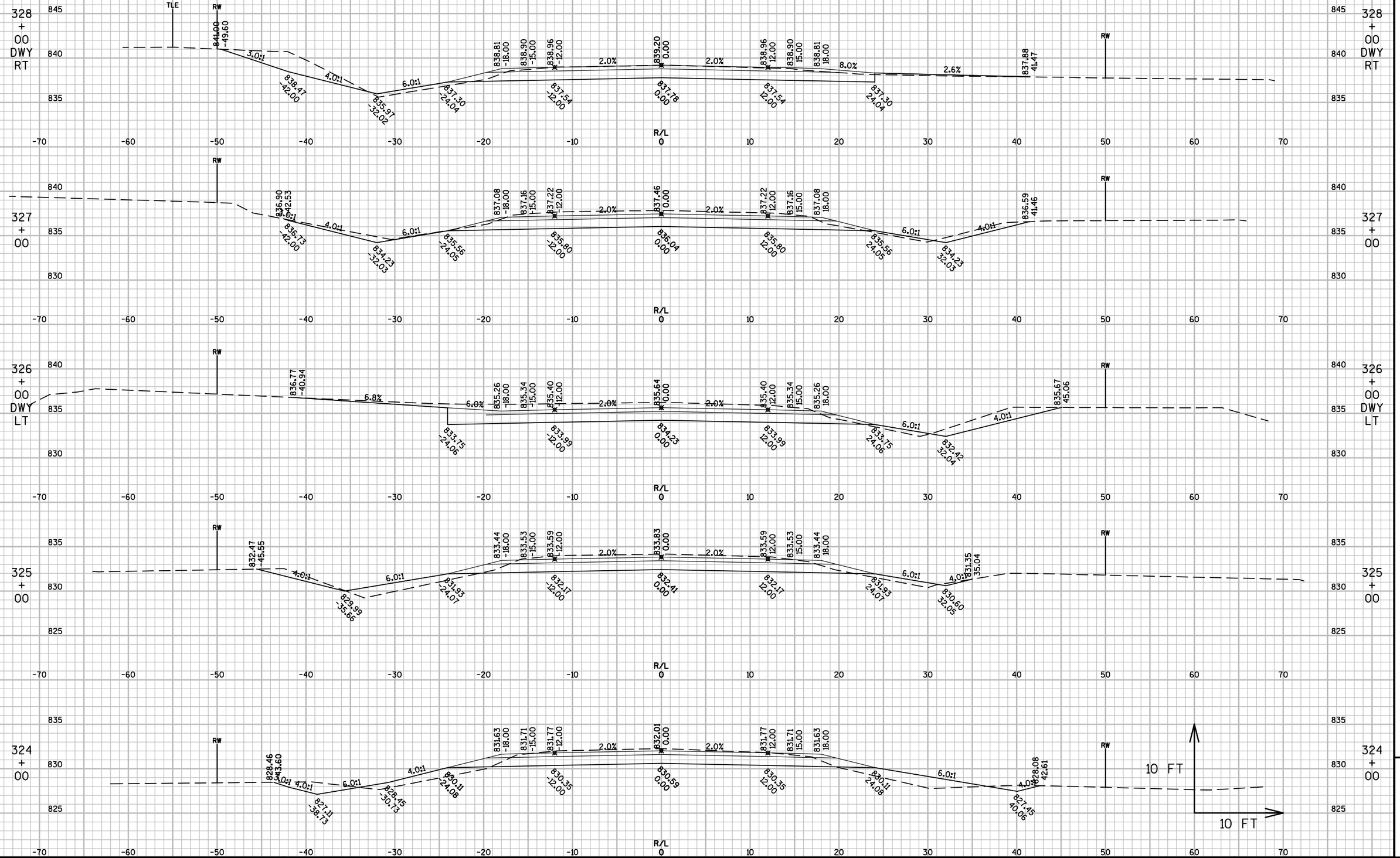
PLOT DATE : 6/4/2018 3:01 PM PLOT BY : MATT TOMSOVIC PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49



9

PROJECT NO: 6505-03-71	HWY: CTH A	COUNTY: OUTAGAMIE	CROSS SECTIONS: CTH A	SHEET 164	E

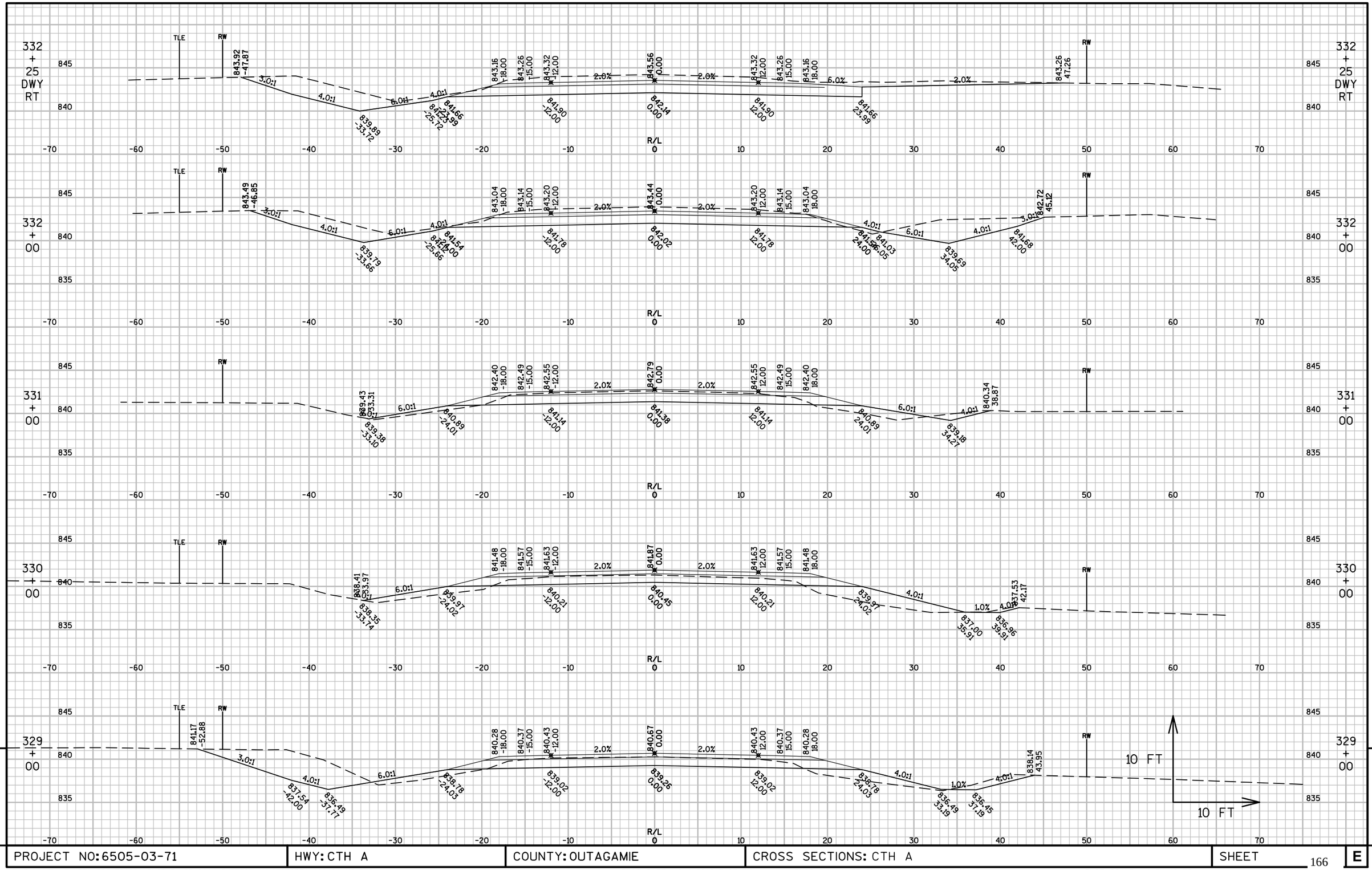


PROJECT NO: 6505-03-71	HWY: CTH A	COUNTY: OUTAGAMIE	CROSS SECTIONS: CTH A	SHEET	E

FILE NAME : F:\TR\JOBS\E2182A15\CIVIL 3D 2014\SHEETSPLAN\65050371-090101-XS.DWG
LAYOUT NAME - 65050371-090132-XS

PLOT DATE : 6/4/2018 3:02 PM PLOT BY : MATT TOMSOVIC PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49

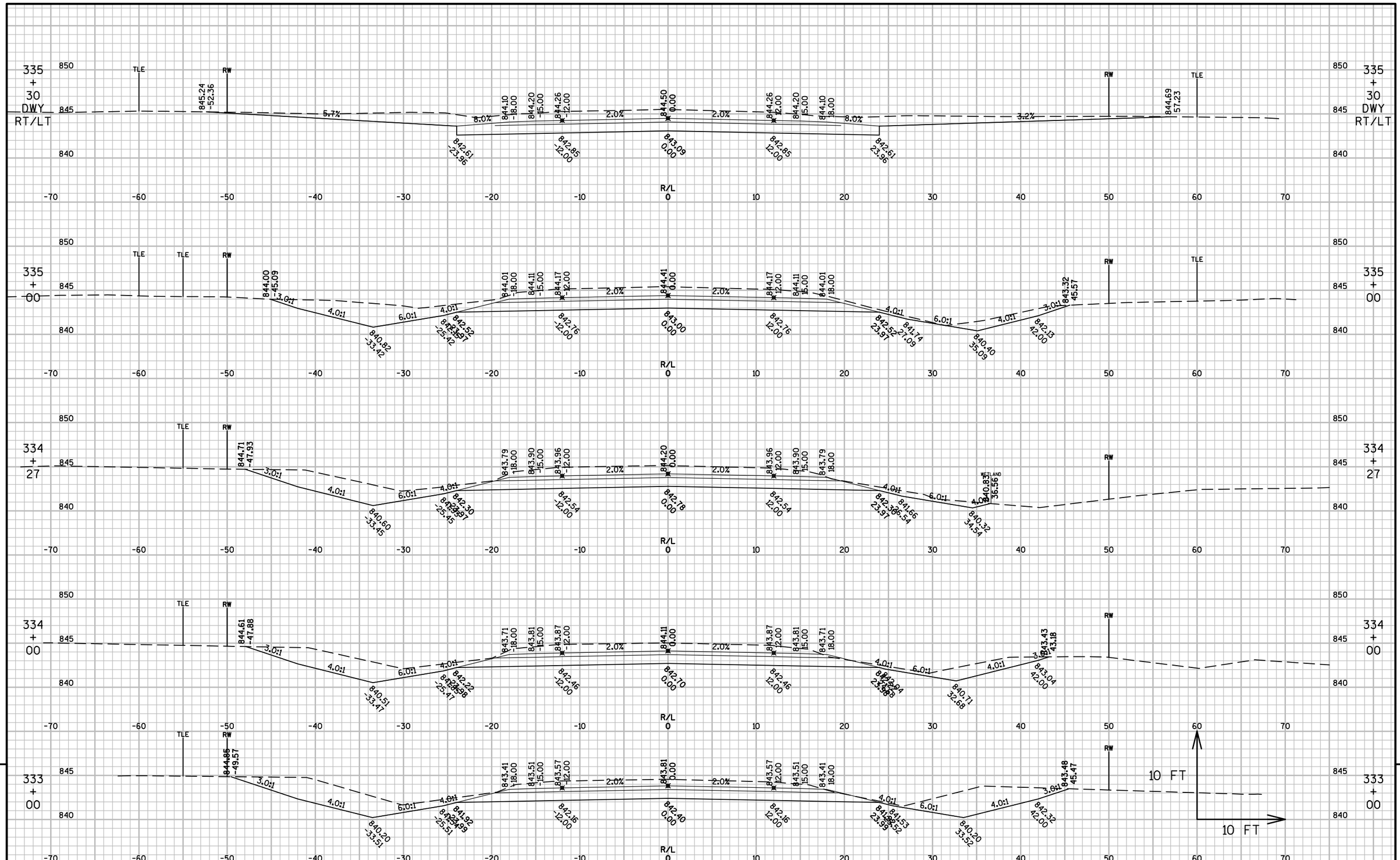


PROJECT NO: 6505-03-71	HWY: CTH A	COUNTY: OUTAGAMIE	CROSS SECTIONS: CTH A	SHEET 166	E

FILE NAME : F:\TR\JOBS\E2182A15\CIVIL 3D 2014\SHEETSPLAN\65050371-090101-XS.DWG
LAYOUT NAME - 65050371-090133-XS

PLOT DATE : 6/4/2018 3:03 PM PLOT BY : MATT TOMSOVIC PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49



9

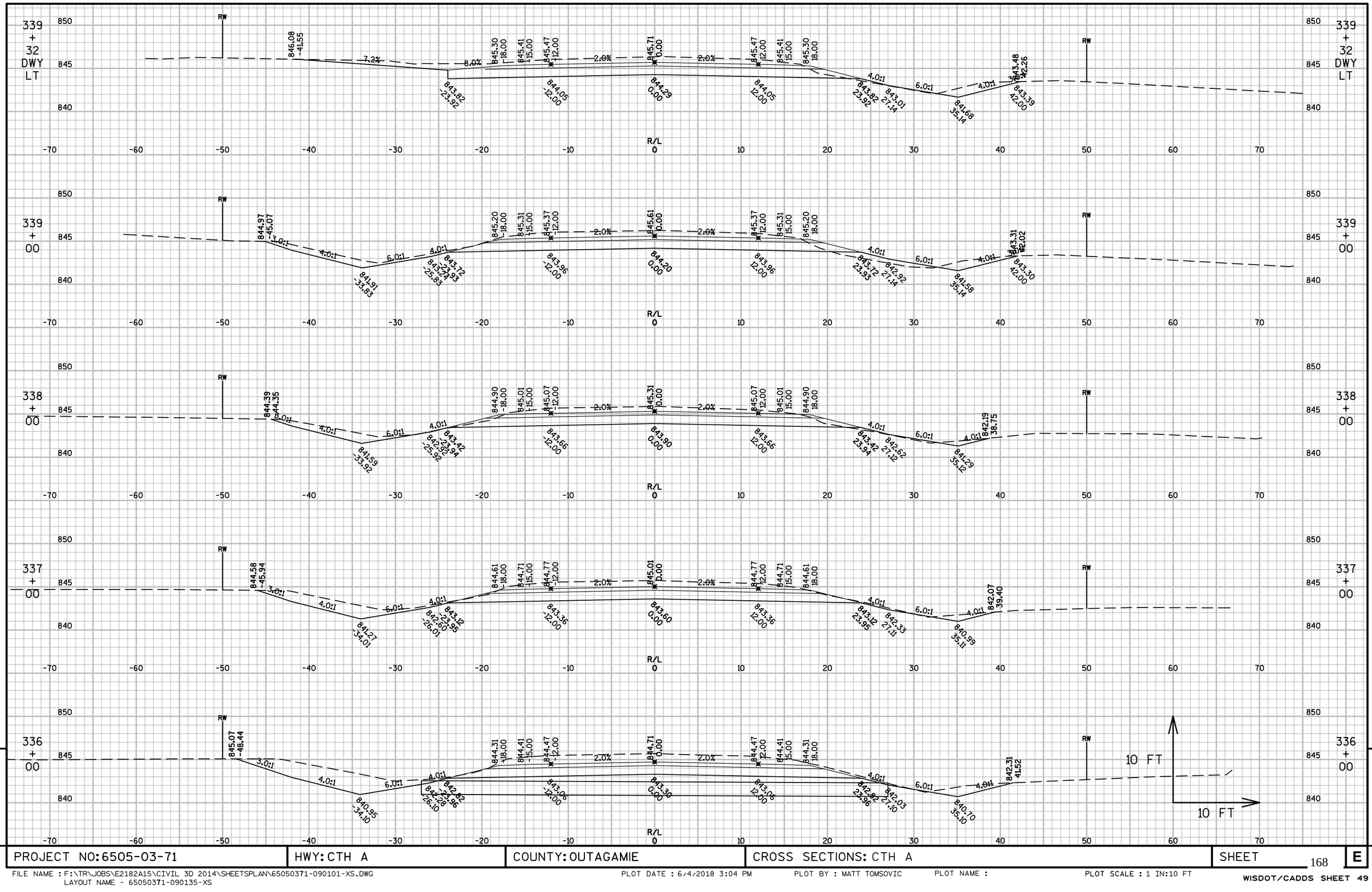
PROJECT NO: 6505-03-71	HWY: CTH A	COUNTY: OUTAGAMIE	CROSS SECTIONS: CTH A	SHEET 167	E

FILE NAME : F:\TR\JOBS\E2182A15\CIVIL 3D 2014\SHEETSPLAN\65050371-090101-XS.DWG
LAYOUT NAME - 65050371-090134-XS

PLOT DATE : 6/4/2018 3:03 PM PLOT BY : MATT TOMSOVIC PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49

9



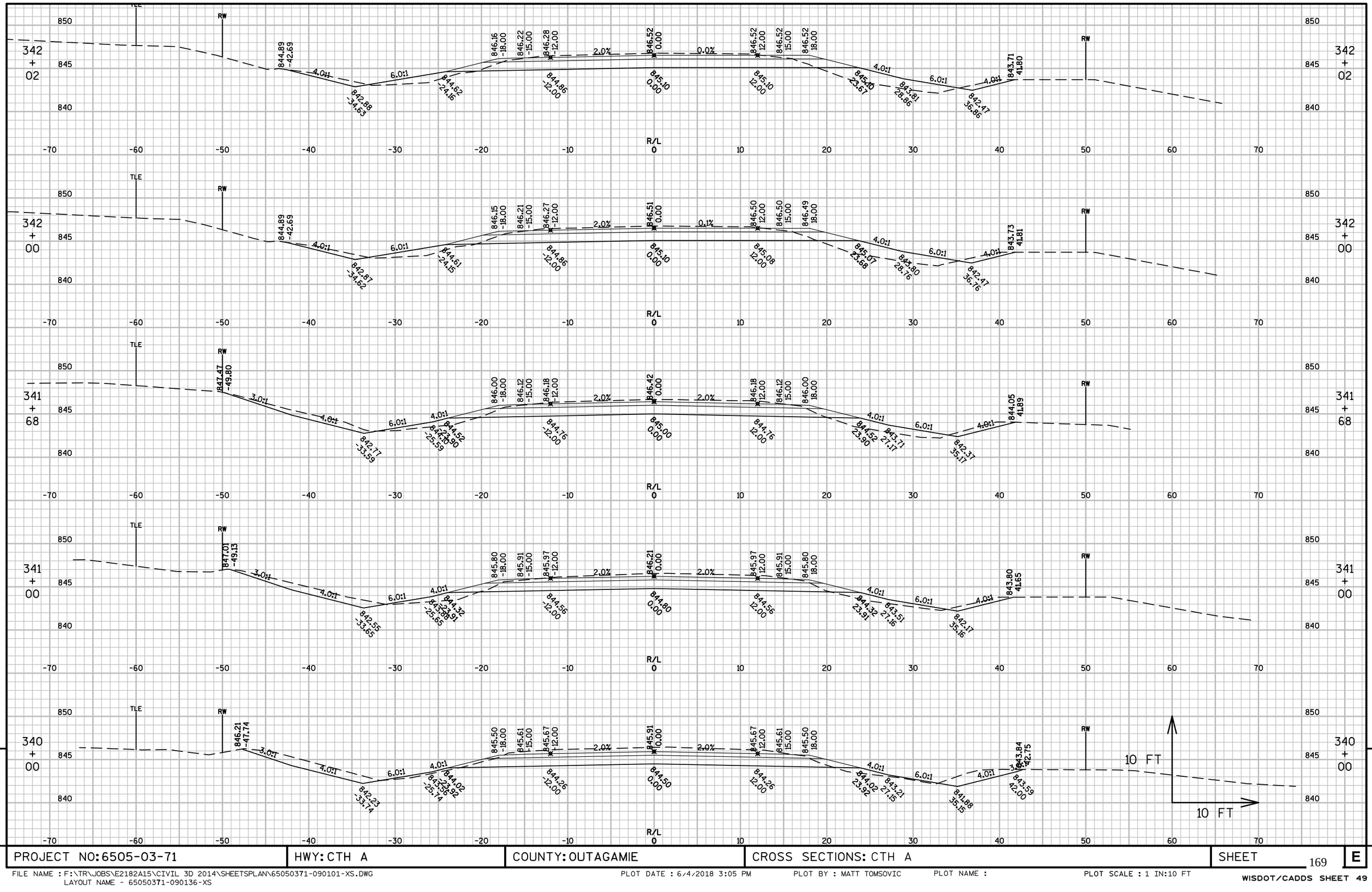
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PROJECT NO: 6505-03-71	HWY: CTH A	COUNTY: OUTAGAMIE	CROSS SECTIONS: CTH A	SHEET	E

FILE NAME : F:\TR\JOBS\E2182A15\CIVIL 3D 2014\SHEETSPLAN\65050371-090101-XS.DWG
LAYOUT NAME - 65050371-090135-XS

PLOT DATE : 6/4/2018 3:04 PM PLOT BY : MATT TOMSOVIC PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49



9

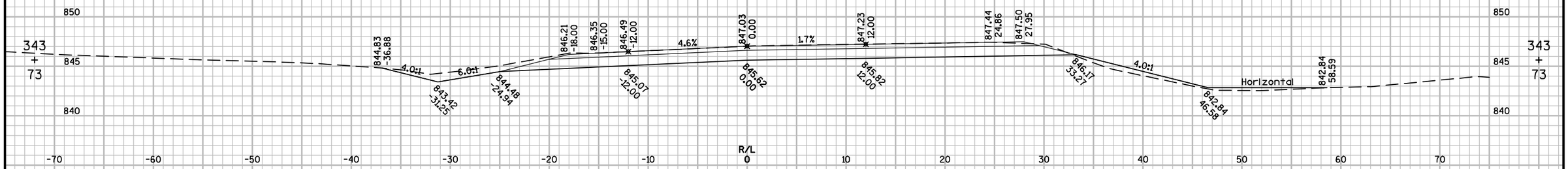
PROJECT NO: 6505-03-71	HWY: CTH A	COUNTY: OUTAGAMIE	CROSS SECTIONS: CTH A	SHEET 169	E

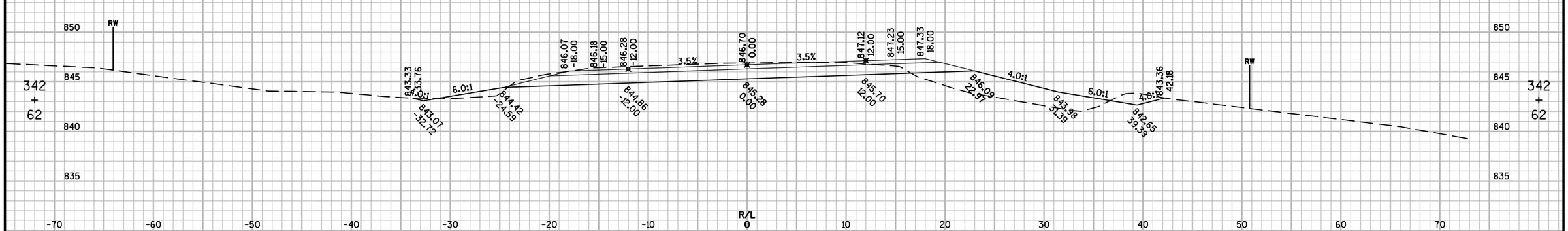
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LAYOUT NAME - 65050371-090136-XS

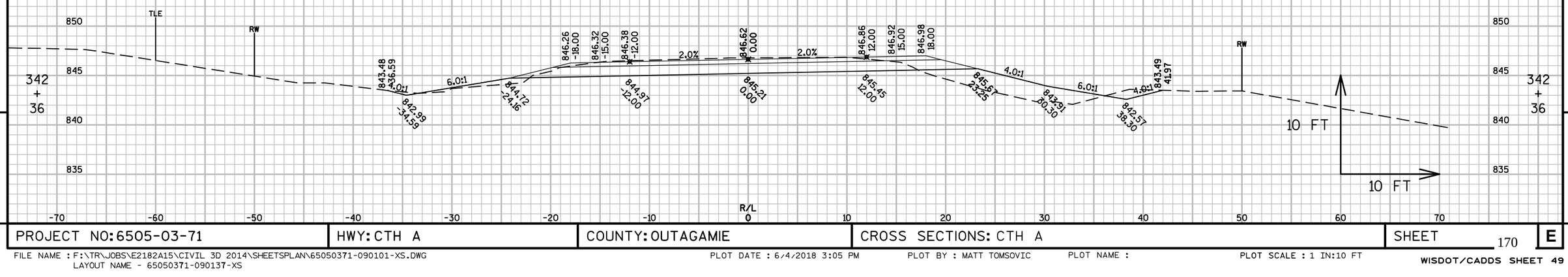
PLOT DATE : 6/4/2018 3:05 PM PLOT BY : MATT TOMSOVIC PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49

END CONSTRUCTION STA 343+73



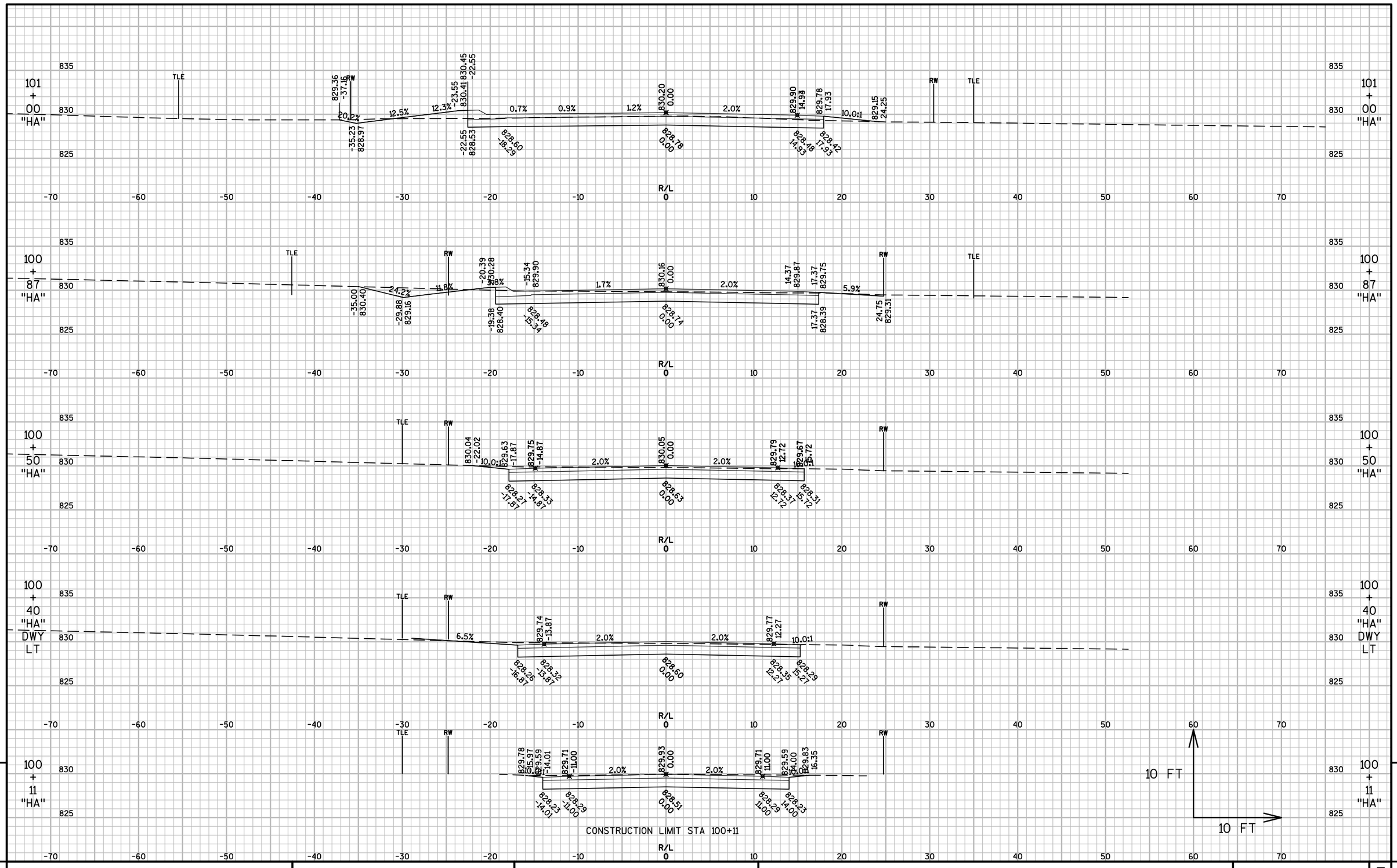




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9

PROJECT NO: 6505-03-71	HWY: CTH A	COUNTY: OUTAGAMIE	CROSS SECTIONS: CTH A	SHEET 170	E



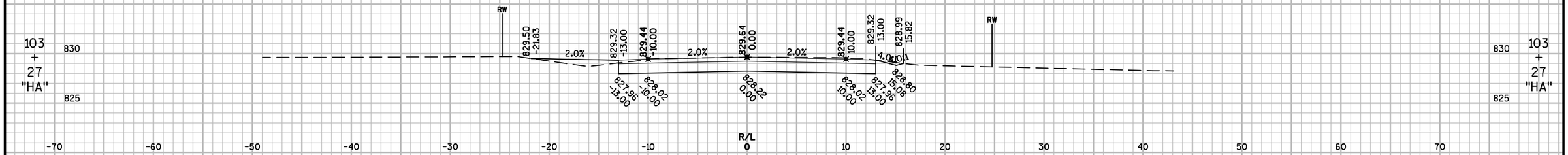
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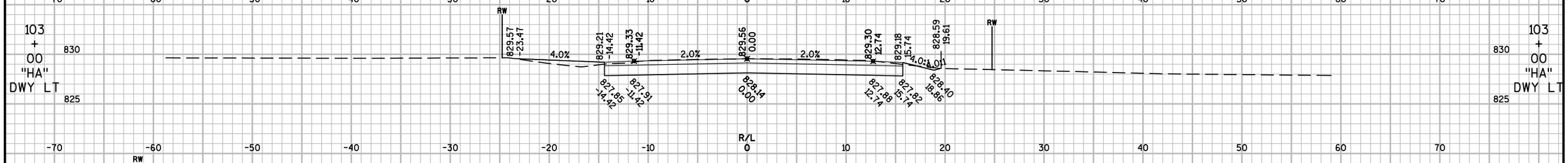
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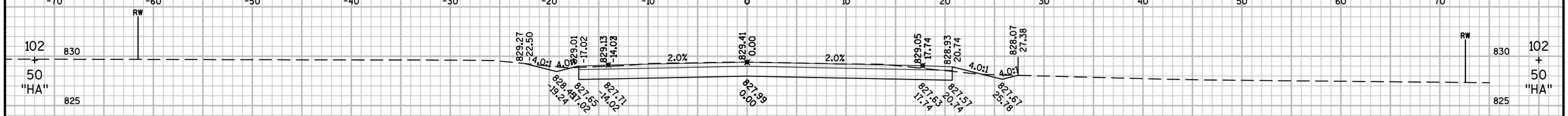
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LAYOUT NAME - 65050371-090160-XS

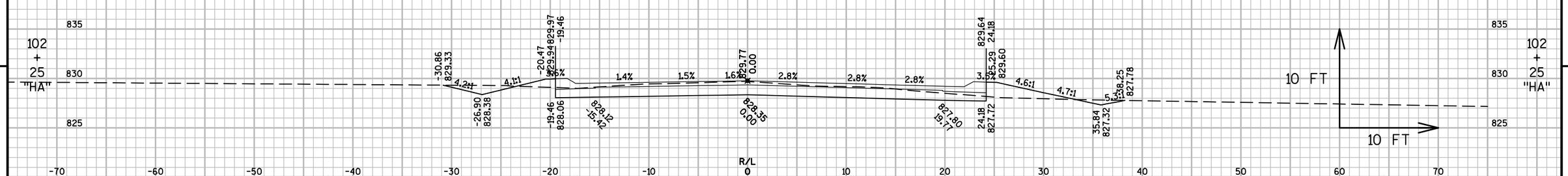
PLOT DATE : 6/4/2018 3:06 PM PLOT BY : MATT TOMSOVIC PLOT NAME : PLOT SCALE : 1 IN:10 FT

CONSTRUCTION LIMIT STA 103+27









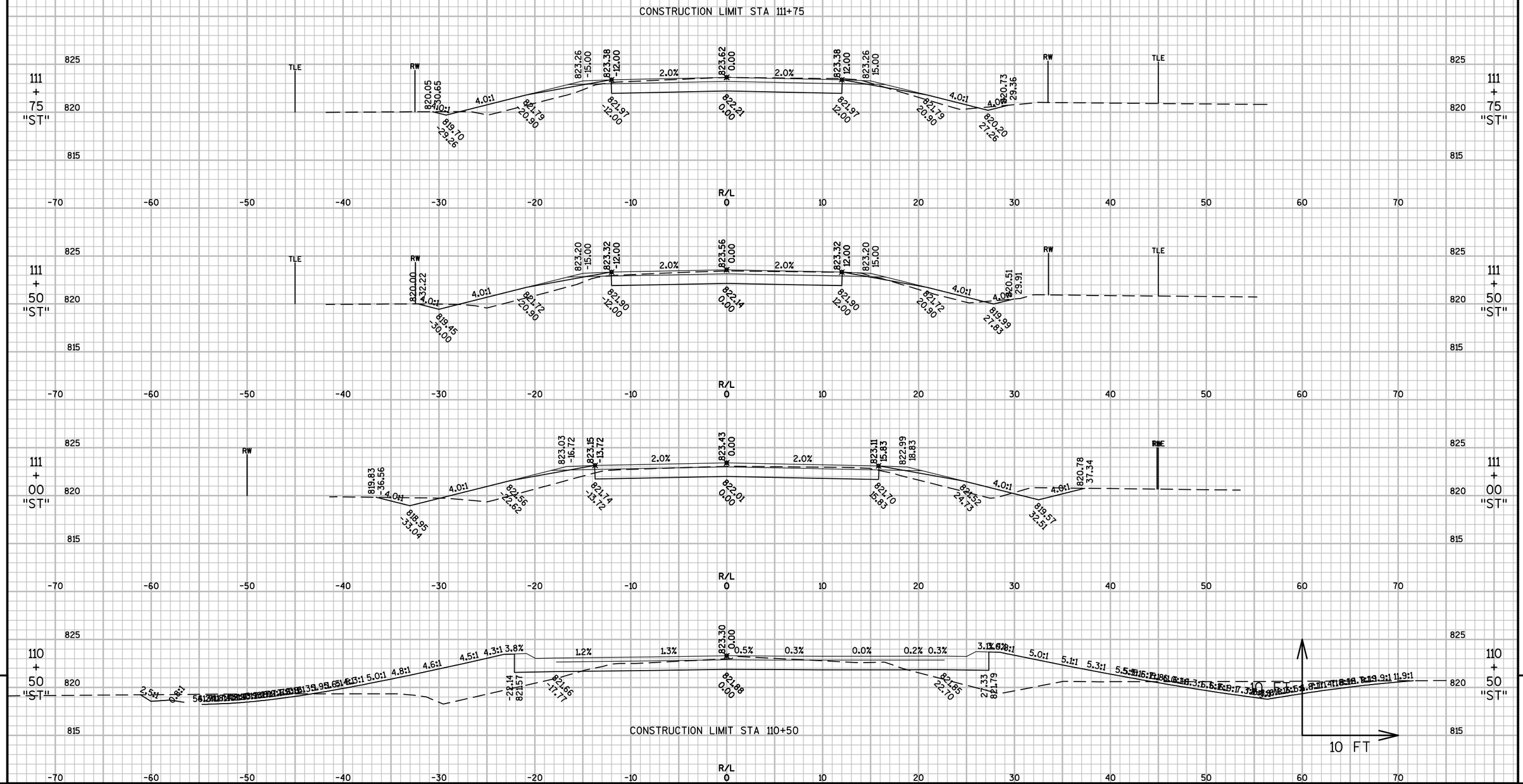
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PROJECT NO: 6505-03-71	HWY: CTH A	COUNTY: OUTAGAMIE	CROSS SECTIONS: HAMPLE RD	SHEET 172	E

FILE NAME : F:\TR\JOBS\E2182A15\CIVIL 3D 2014\SHEETSPLAN\65050371-090101-XS.DWG
LAYOUT NAME - 65050371-090161-XS

PLOT DATE : 6/4/2018 3:07 PM PLOT BY : MATT TOMSOVIC PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49



PROJECT NO: 6505-03-71	HWY: CTH A	COUNTY: OUTAGAMIE	CROSS SECTIONS: STATE RD	SHEET 173	E

FILE NAME : F:\TR\JOBS\E2182A15\CIVIL 3D 2014\SHEETSPLAN\65050371-090101-XS.DWG
LAYOUT NAME - 65050371-090170-XS

PLOT DATE : 6/4/2018 3:07 PM PLOT BY : MATT TOMSOVIC PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49

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