GRE

NOVEMBER 2017

PROJECT ID: 1500-27-71
WITH:1500-66-71, 1500-67-60

COUNTY: MANITOWOC

ORDER OF SHEETS

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

TOTAL SHEETS = 154

32

N

STATE OF WISCONSIN

DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

MENASHA AVENUE, VILLAGE OF WHITELAW

HEMPTON LAKE ROAD - CHESTNUT LANE

USH 10

MANITOWOC COUNTY

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
1500-27-71	WISC 2017534	1

STATE PROJECT NUMBER
1500-27-71

BEGIN PROJECT
STA 323+50

END PROJECT
STA 395+61.49

LAYOUT
SCALE 0 1 MI.

TOTAL NET LENGTH OF CENTERLINE = 1.37 MILES

HORIZONTAL POSITIONS SHOWN ON THIS PLAN ARE WISCONSIN COUNTY COORDINATES, MANITOWOC COUNTY, NAD83 (2011), IN U.S. SURVEY FEET. VERTICAL POSITIONS SHOWN ON THIS PLAN ARE VERTICAL DATUM NAVD(88)(2012).

DESIGN DESIGNATION

A.A.D.T.	2018	=	5400
A.A.D.T.	2038	=	6900
D.H.V.		=	12.4
D.D.		=	60/40
T.		=	14.8%
DESIGN SPEED		=	35 MPH
ESALS		=	3,445,600

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
- EXISTING CULVERT
- PROPOSED CULVERT (Box or Pipe)
- COMBUSTIBLE FLUIDS (CAUTION)
- MARSH AREA
- WOODED OR SHRUB AREA

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

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

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PREPARED BY

Surveyor	WISDOT
Designer	WISDOT
Project Manager	BRIAN HAEN
Regional Examiner	REGIONAL EXAMINER
Regional Supervisor	CHAD DEGRAVE

APPROVED FOR THE DEPARTMENT
DATE: 3/27/17 Brian Haen (Signature)

E

ORDER OF SHEETS

GENERAL NOTES
PROJECT OVERVIEW
TYPICAL SECTIONS
CONSTRUCTION DETAILS
PLAN DETAILS
PERMANENT SIGNING
PAVEMENT MARKING
TRAFFIC CONTROL
DETOUR PLANS
ALIGNMENT DETAILS
PLAN AND PROFILE
PLAN SHEETS

ABBREVIATIONS

A.A.D.T	ANNUAL AVERAGE DAILY TRAFFIC
B.M.	BENCHMARK
CL	CENTERLINE
D.D	LANE DISTRIBUTION
D.H.V.	DESIGN HOURLY VOLUME
EL. OR ELEV	ELEVATION
MAX.	MAXIMUM
MIN.	MINIMUM
NORM.	NORMAL
REQ'D	REQUIRED
RDWY	ROADWAY
S.E.	SUPERELEVATION
STA	STATION
T.	PERCENT TRUCKS
TYP	TYPICAL

GENERAL NOTES

DETAILS OF CONSTRUCTION NOT SHOWN SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS.

THE EROSION CONTROL ITEMS SHOWN ON THE PLANS ARE AT SUGGESTED LOCATIONS. THE ENGINEER MAY MODIFY LOCATIONS AS NEEDED. ALL EROSION CONTROL MEASURES SHALL BE MAINTAINED UNTIL SUCH TIME AS THE ENGINEER DETERMINES THE MEASURE IS NO LONGER NECESSARY.

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

THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL BUSINESSES AND PRIVATE RESIDENCES AT ALL TIMES.

ALL SIGN LOCATIONS SHALL BE REVIEWED BY THE ENGINEER PRIOR TO INSTALLATION.

DISTURBED LOCATIONS WITHIN THE RIGHT-OF-WAY SHALL BE RESTORED AS DIRECTED BY THE ENGINEER.

A SAWED JOINT IS REQUIRED WHERE NEW PAVEMENT MEETS AN EXISTING PAVED SURFACE.

TRAFFIC CONTROL DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS DIRECTED BY THE ENGINEER.

TWO ARCHAEOLOGY SITES ARE PRESENT IN THE PROJECT VICINITY. THE SAINT MICHAEL'S CHURCH SITE IS ADJACENT TO USH 10 ON THE NORTH-SIDE FROM PINE STREET TO CTH S. THE THE ANTON GRALL FARM SITE IS UN-MAPPED IN THE VICINITY OF THE PROJECT ON THE SOUTH-SIDE OF USH 10 NEAR CHESTNUT LANE. NO STORING MATERIALS, EQUIPMENT OR PARKING OF VEHICLES ON EITHER SITE. NO GROUND DISTURBANCE SHALL TAKE PLACE AT EITHER SITE. SEE PROJECT OVERVIEW SHEET FOR MORE INFORMATION.

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

LOCATION	PAVEMENT TYPE	LAYER THICKNESS
STA 323+50 TO 345+60 PINE ST AND OAK ST	4 MT 58-28 S	1 3/4-INCH LOWER LAYER 1 3/4-INCH UPPER LAYER
STA 345+60 TO 395+61.49	4 MT 58-28 S	3/4-INCH LEVELING LAYER 1 3/4-INCH UPPER LAYER

CONTACTS

WDNR CONTACT
MATT SCHAEVE
DNR NORTHEAST REGIONAL HEADQUARTERS
2984 SHAWANO AVENUE
GREEN BAY, WI 54313
PHONE: 920-662-5472

WISDOT PROJECT MANAGER
BRIAN HAEN
WISDOT NORTHEAST REGION
944 VANDERPERREN WAY
GREEN BAY, WI 54304
PHONE: 920-492-4103

WPS - ELECTRIC
LORI BUTRY
700 N. ADAMS STREET
GREEN BAY, WI 54307
PHONE: 920-433-1703
LABUTRY@INTEGRYSGROUP.COM

COMCAST
ROBERT PERONTO
1614 WASHINGTON STREET
P.O. BOX 429
MANITOWOC, WI 54221
PHONE:

FRONTIER COMMUNICATIONS
STUART NORMAN
521 4TH STREET
WAUSAU, WI 51403
PHONE: 715-847-1320
STUART.NORMAN@FTR.COM

WPS - GAS
LORI BUTRY
700 N. ADAMS STREET
GREEN BAY, WI 54307
PHONE: 920-433-1703
LABUTRY@INTEGRYSGROUP.COM

VILLAGE OF WHITELAW
ALFRED KIEL
147 W. MENASHA AVENUE
P.O. BOX 294
WHITELAW, WI 54247
PHONE: 920-732-3239

VILLAGE OF WHITELAW MUNICIPAL WATER AND SEWER UTILITY
GERALD LINSMEIER
147 W. MENASHA AVE
P.O. BOX 294
WHITELAW, WI 54247
PHONE: 920-732-1331

WISDOT SURVEY COORDINATOR
CORMAC MCINNIS
SURVEY COORDINATOR
944 VANDERPERREN WAY
GREEN BAY, WI 54304
920-492-5638

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

EMERGENCY CONTACT NUMBERS FOR WISCONSIN POWER AND LIGHT COMPANY

ELECTRIC 24 HOUR EMERGENCY SERVICE: 1-800-862-6261
GAS 24 HOUR EMERGENCY SERVICE: 1-800-862-6263

EMERGENCY CONTACT NUMBERS FOR WISCONSIN PUBLIC SERVICE

ELECTRIC 24 HOUR EMERGENCY SERVICE: 1-800-450-7240
GAS 24 HOUR EMERGENCY SERVICE: 1-800-450-7280

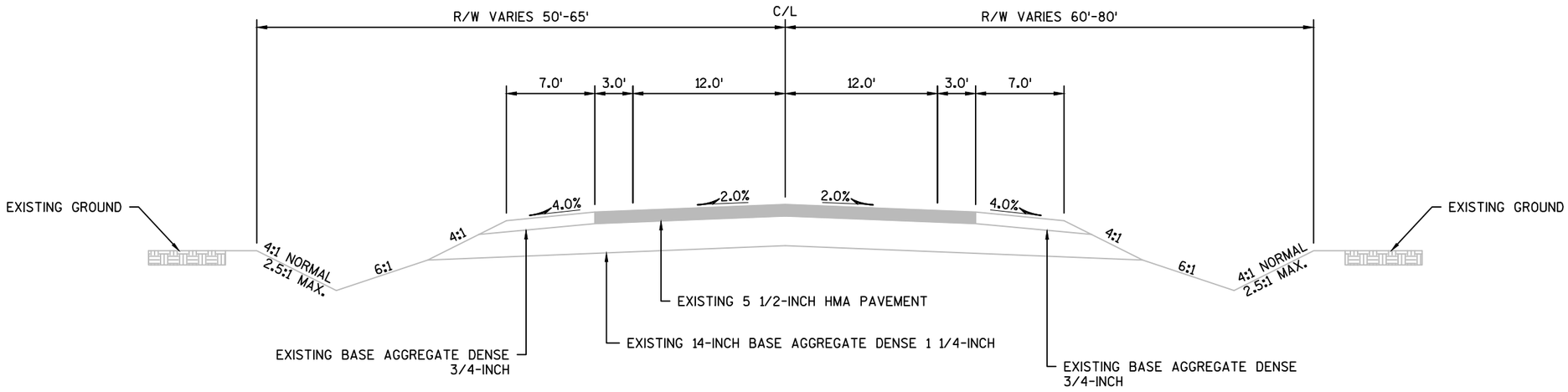
EMERGENCY CONTACT NUMBERS FOR WE ENERGIES

ELECTRIC 24 HOUR EMERGENCY SERVICE: 1-800-662-4797
GAS 24 HOUR EMERGENCY SERVICE: 1-800-261-5325

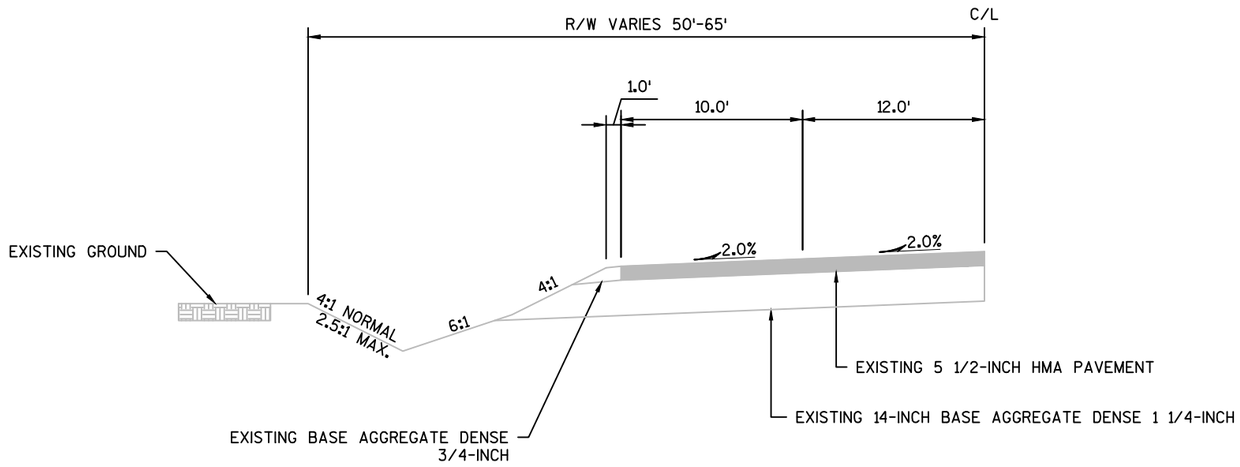
2

PROJECT NO: 1500-27-71	HWY: USH 10	COUNTY: MANITOWOC	PROJECT OVERVIEW	SHEET 3	E

2



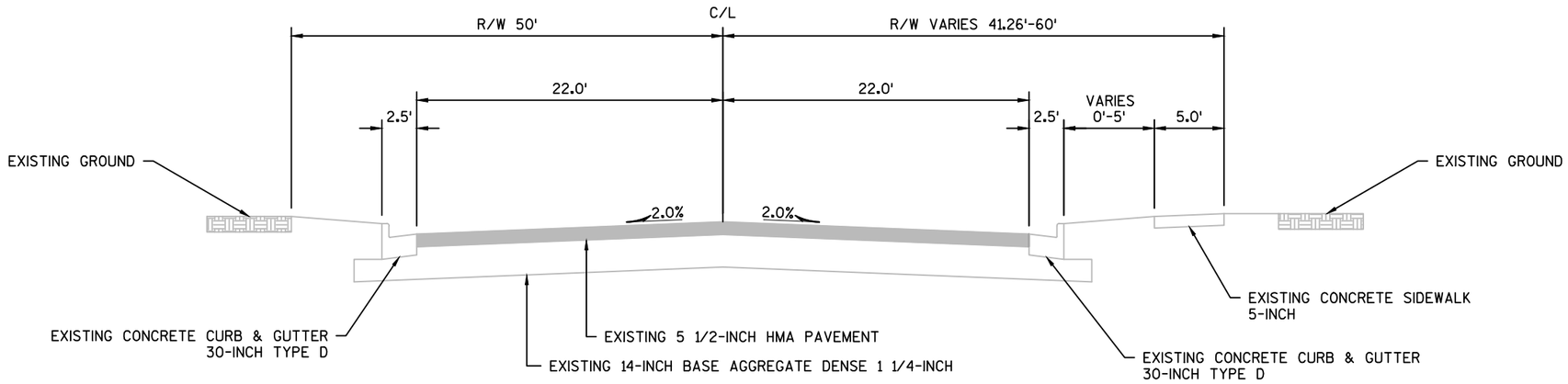
USH 10
EXISTING TYPICAL SECTION
STA 323+50 - STA 335+06



USH 10
EXISTING TYPICAL SECTION
STA 329+75 LT - STA 335+06 LT

WESTBOUND RIGHT TURN LANE AT
HEMPTON LAKE ROAD

PROJECT NO: 1500-27-71	HWY: USH 10	COUNTY: MANITOWOC	TYPICAL SECTION	SHEET 4	E



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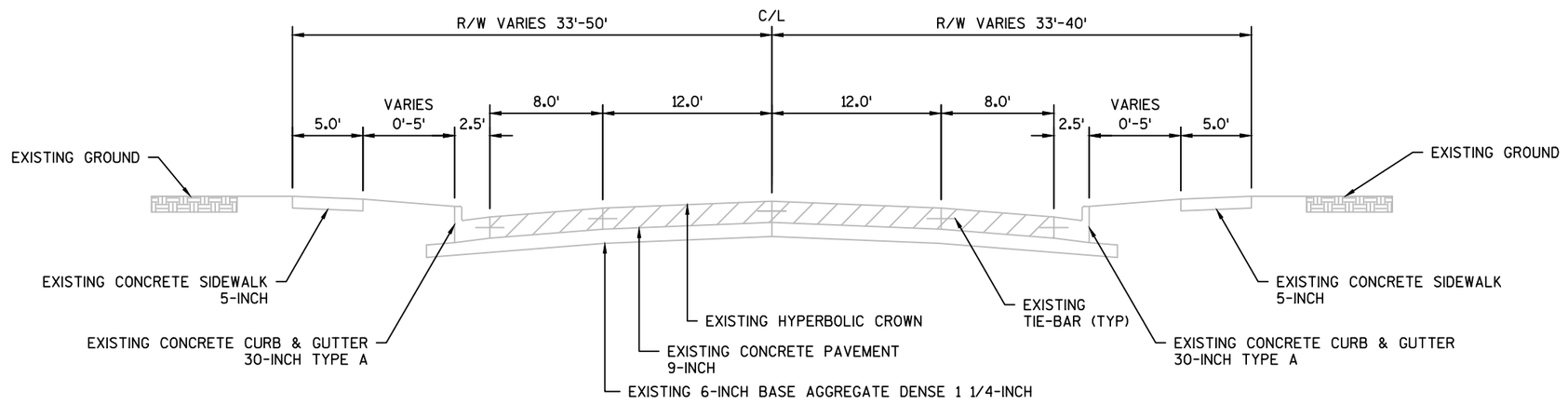
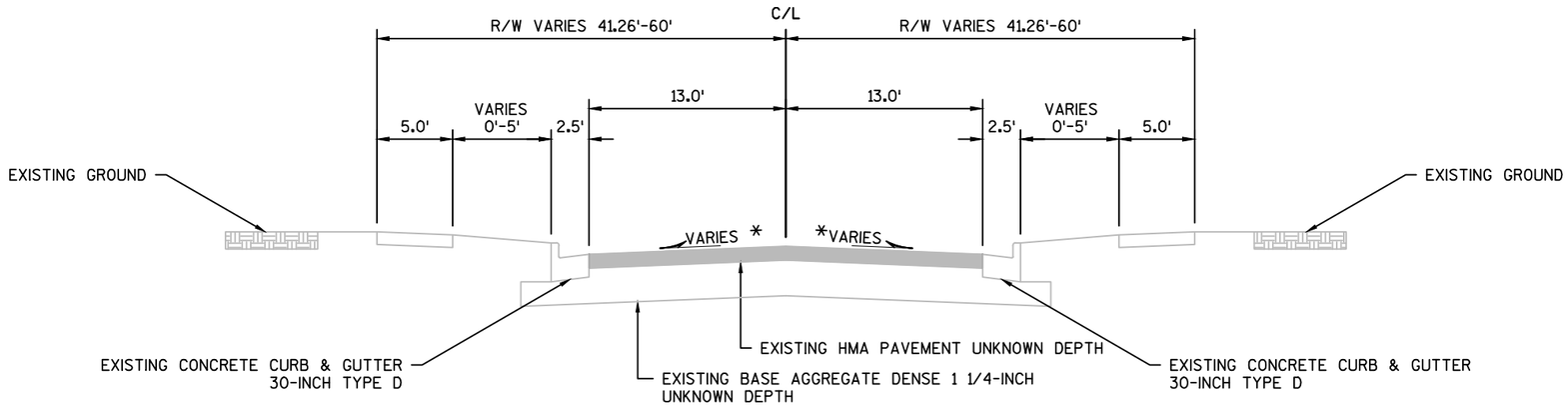
STA 335+06 - STA 345+60



USH 10
EXISTING TYPICAL SECTION
STA 345+60 - 395+61.49

PROJECT NO: 1500-27-71	HWY: USH 10	COUNTY: MANITOWOC	TYPICAL SECTION	SHEET 5	E

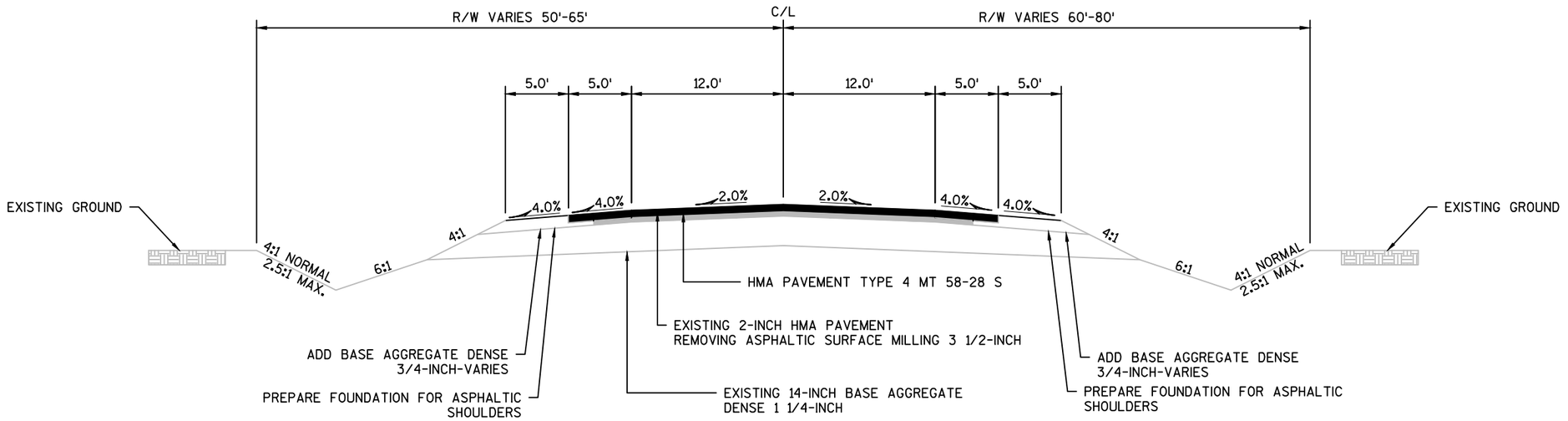
2



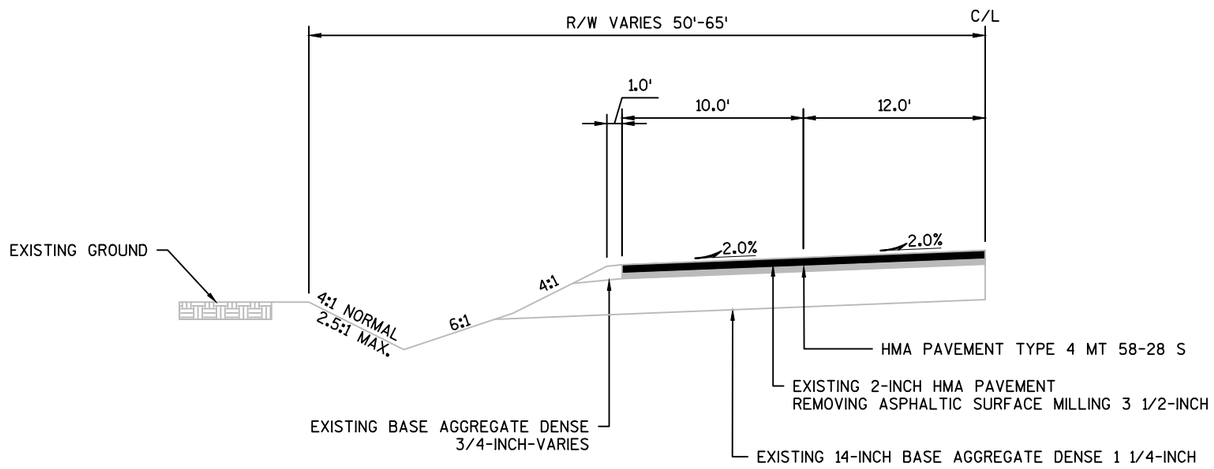
SIDEROAD
EXISTING TYPICAL SECTION
PINE ST
OAK ST

*CROSS-SLOPE VARIES
FROM 0.5% TO 2.0%

PROJECT NO: 1500-27-71	HWY: USH 10	COUNTY: MANITOWOC	TYPICAL SECTION	SHEET 6	E



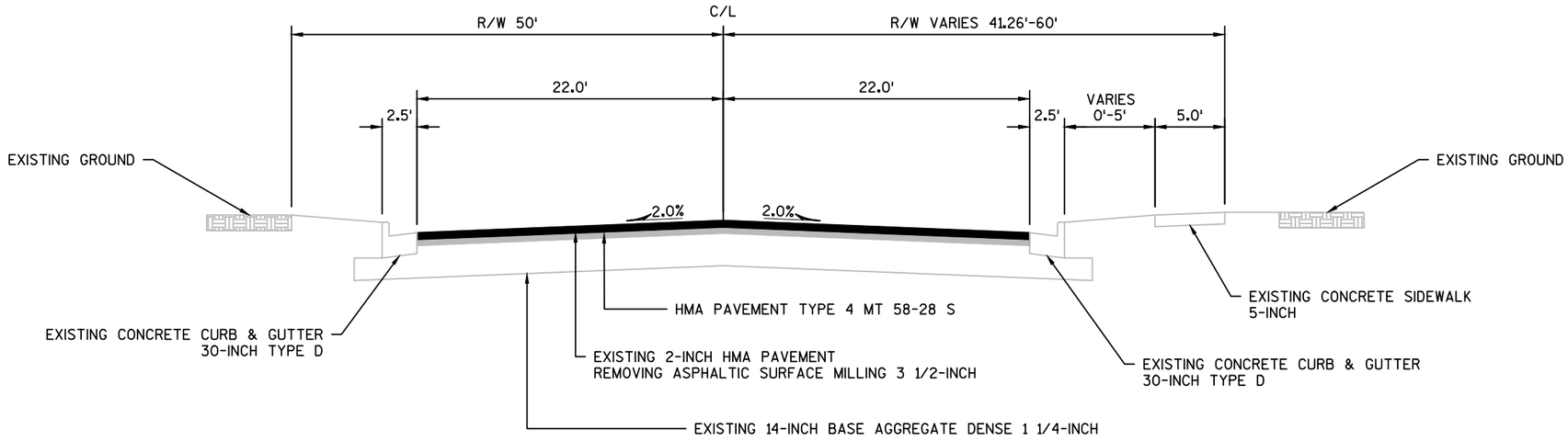
USH 10
FINISHED TYPICAL SECTION
STA 323+50 - STA 335+06



USH 10
FINISHED TYPICAL SECTION
STA 329+75 LT - STA 335+06 LT

WESTBOUND RIGHT TURN LANE AT
HEMPTON LAKE ROAD

PROJECT NO: 1500-27-71	HWY: USH 10	COUNTY: MANITOWOC	TYPICAL SECTION	SHEET 7	E



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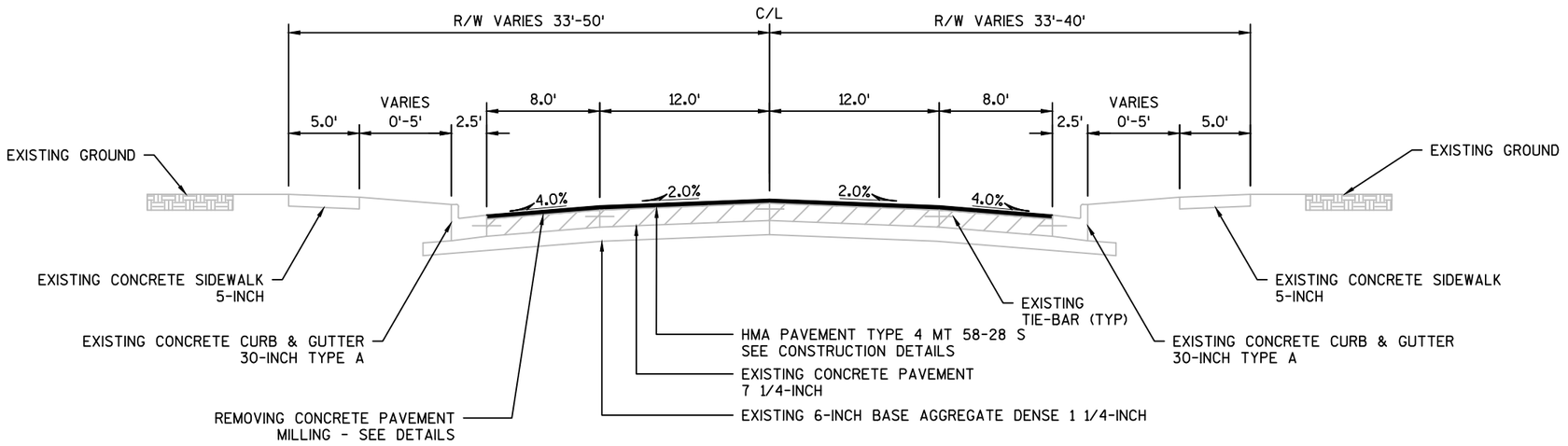
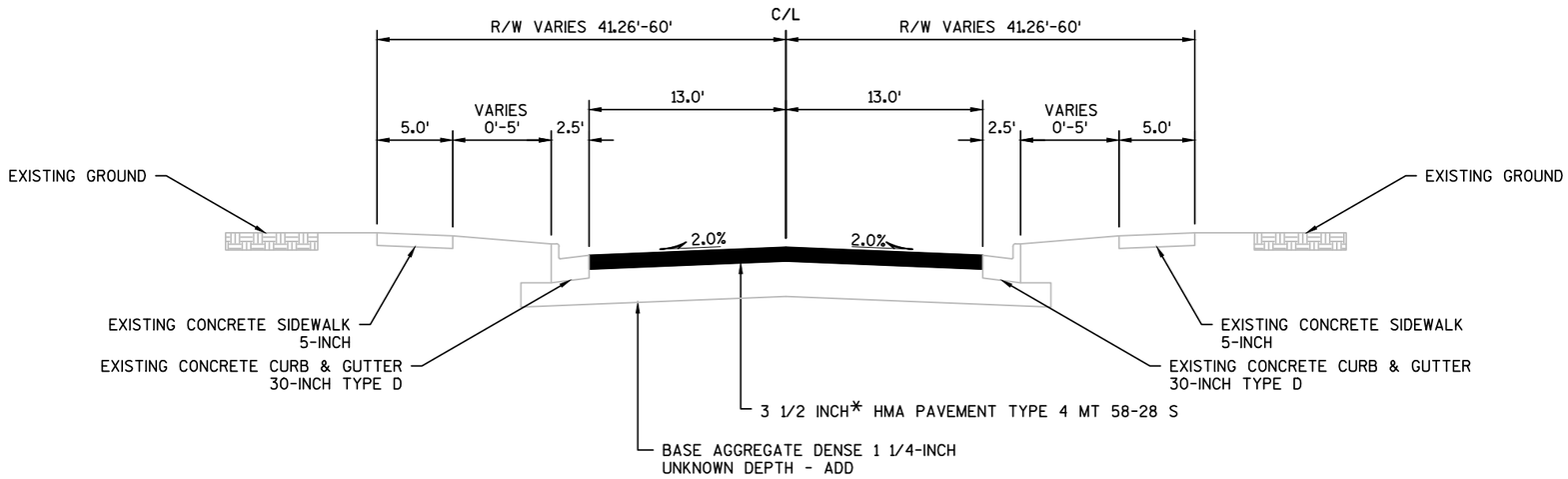
FINISHED TYPICAL SECTION
STA 335+06 - STA 345+60



USH 10
FINISHED TYPICAL SECTION
STA 345+60 - 395+61.49

PROJECT NO:1500-27-71	HWY: USH 10	COUNTY: MANITOWOC	TYPICAL SECTION	SHEET 8	E

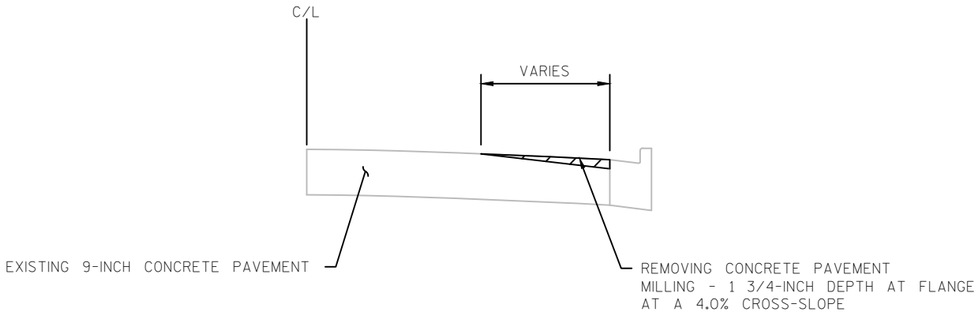
2



SIDEROAD
FINISHED TYPICAL SECTION
PINE ST
OAK ST

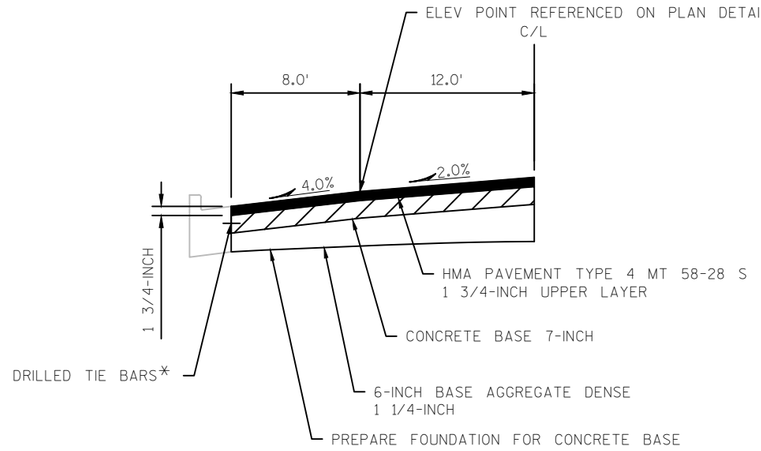
*3 1/2-INCH MINIMUM THICKNESS, USE LEVELING LAYER TO ACHIEVE CROSS SLOPE CORRECTION

PROJECT NO:1500-27-71	HWY: USH 10	COUNTY: MANITOWOC	TYPICAL SECTION	SHEET 9	E



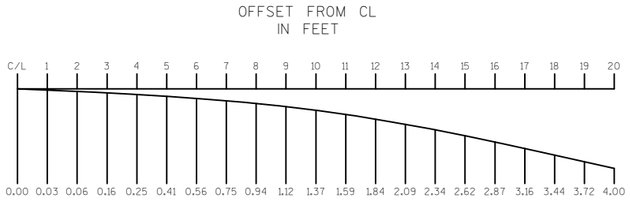
USH 10
CONCRETE MILLING DETAIL
STA 345+60 - 395+61.49

MILLING IS SYMMETRIC
ABOUT THE CENTERLINE
EXCLUDES 372+00 LT -
383+34.79 LT



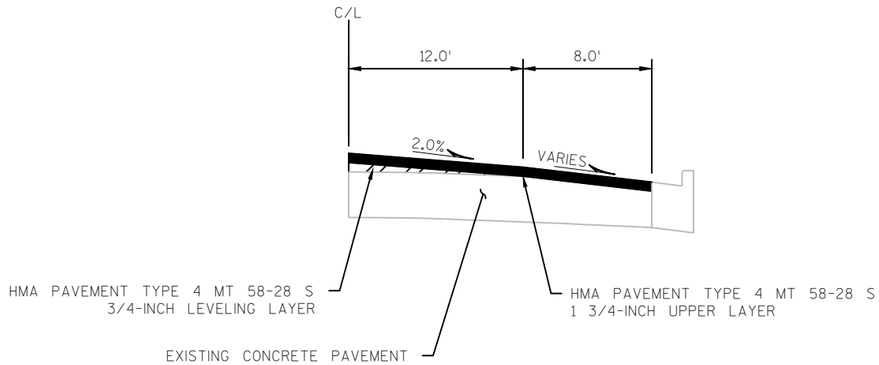
USH 10
CONCRETE BASE DETAIL
STA 372+00 LT - 383+34.79 LT

* FOR ADDITIONAL DETAILS REFER TO SDD
CONCRETE CURB, TIES AND CURB AND GUTTER
APPLICATIONS (TYPICAL TIE BAR LOCATION). MINIMUM
TIE BAR DEPTH OF 3".



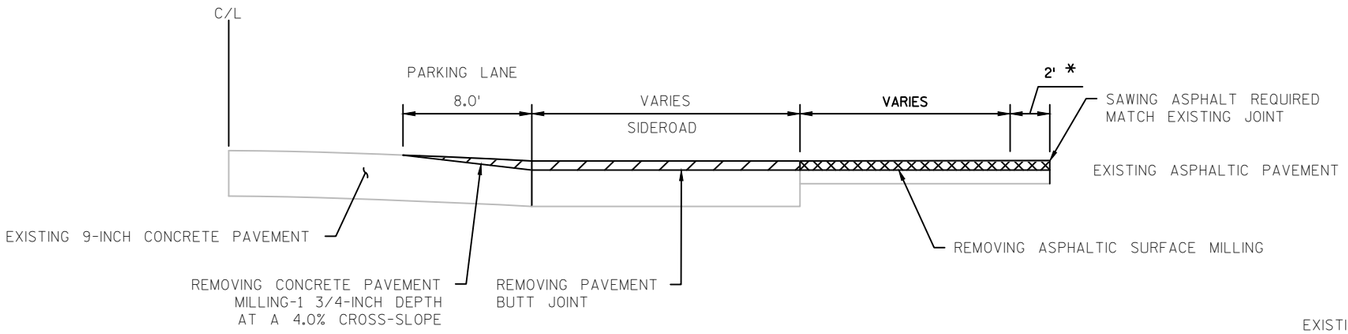
USH 10
EXISTING HYPERBOLIC CROWN
DETAIL
STA 345+60 - 395+61.49

HYPERBOLIC CROWN MAY VARY DUE
TO PREVIOUS DIAMOND GRINDING



USH 10
ASPHALTIC PAVING DETAIL
STA 345+60 - 395+61.49

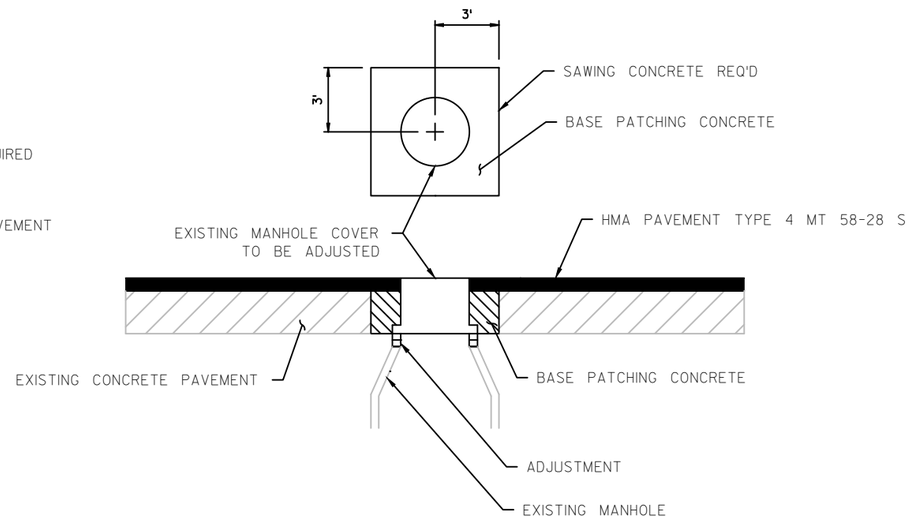
PAVING IS SYMMETRIC ABOUT
THE CENTERLINE
EXCLUDES STA 372+00 -
383+34.79 LT



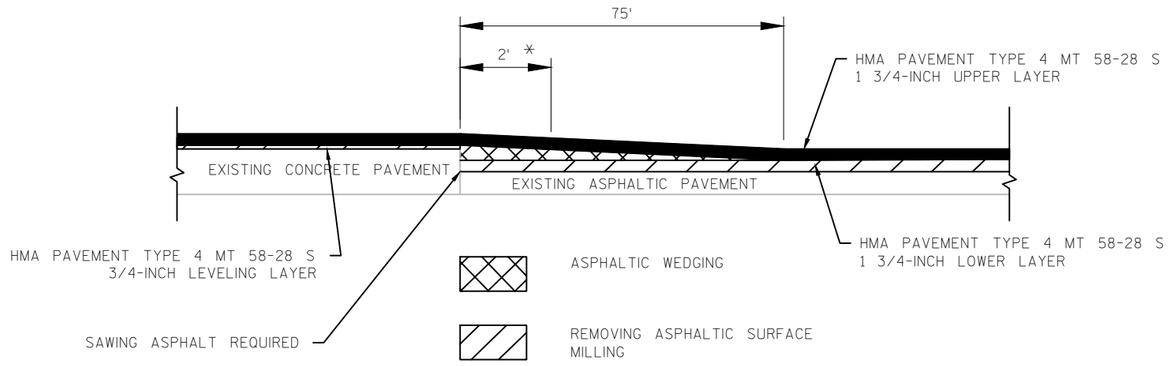
USH 10
REMOVING PAVEMENT BUTT
JOINT DETAIL
AT SIDEROADS

MARIE STREET
KOHLER STREET
HICKORY STREET
ELM STREET
CTH S
CHESTNUT LANE

* TO BE PAID FOR AS
REMOVING ASPHALTIC SURFACE BUTT JOINT



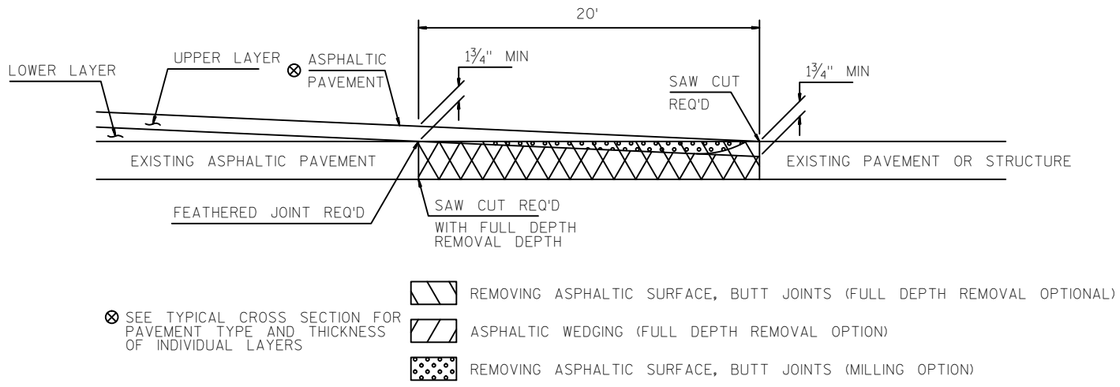
ADJUSTING MANHOLE COVERS



USH 10
CONCRETE TO ASPHALT TRANSITION DETAIL
STA 345+60

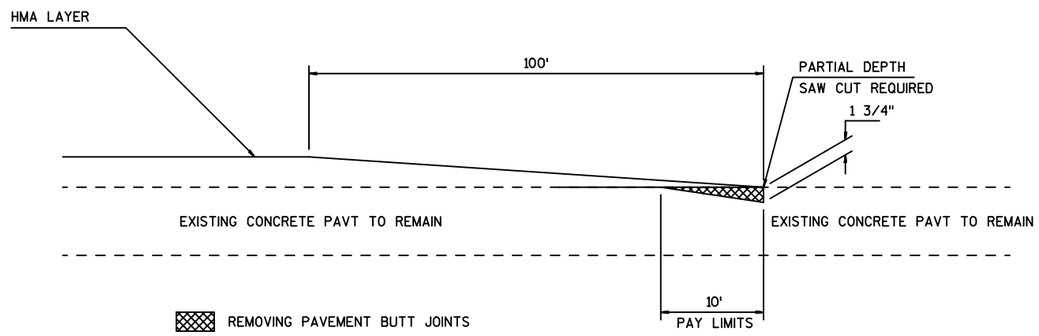
* TO BE PAID FOR AS
REMOVING ASPHALTIC SURFACE BUTT JOINT

2



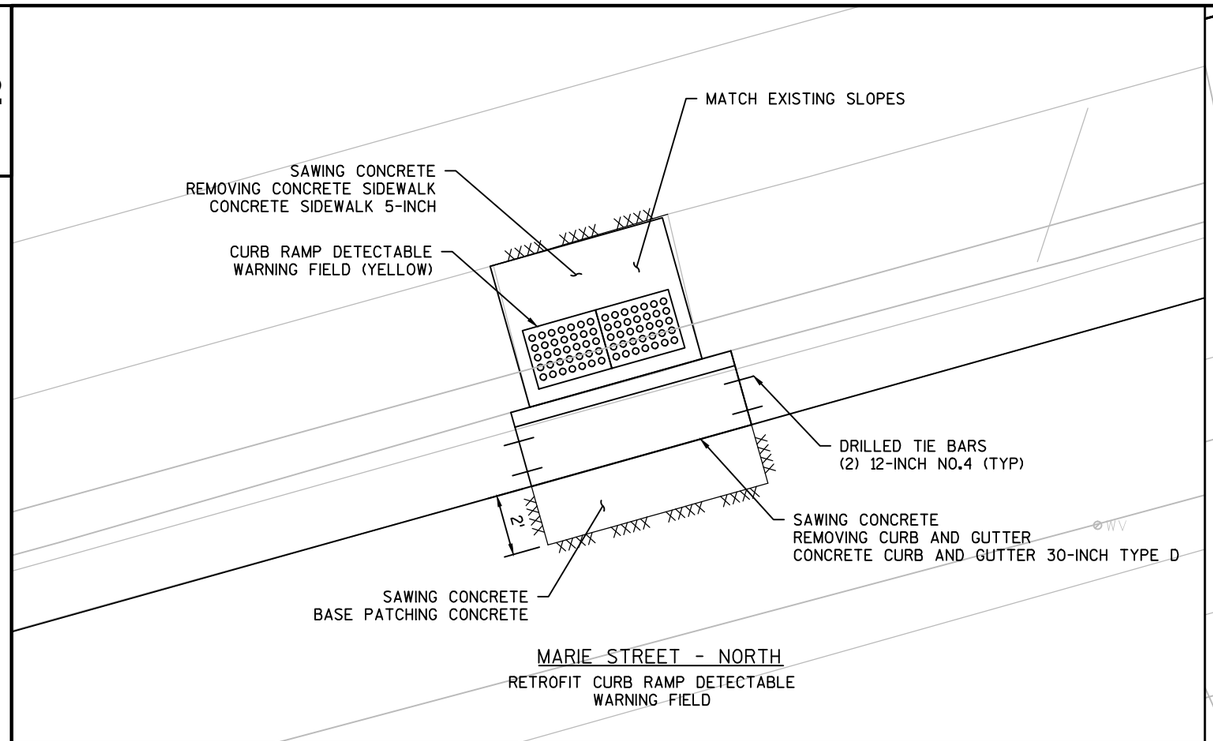
BUTT JOINT DETAIL FOR NON-MILLED ASPHALTIC PAVEMENTS

* MAINLINE



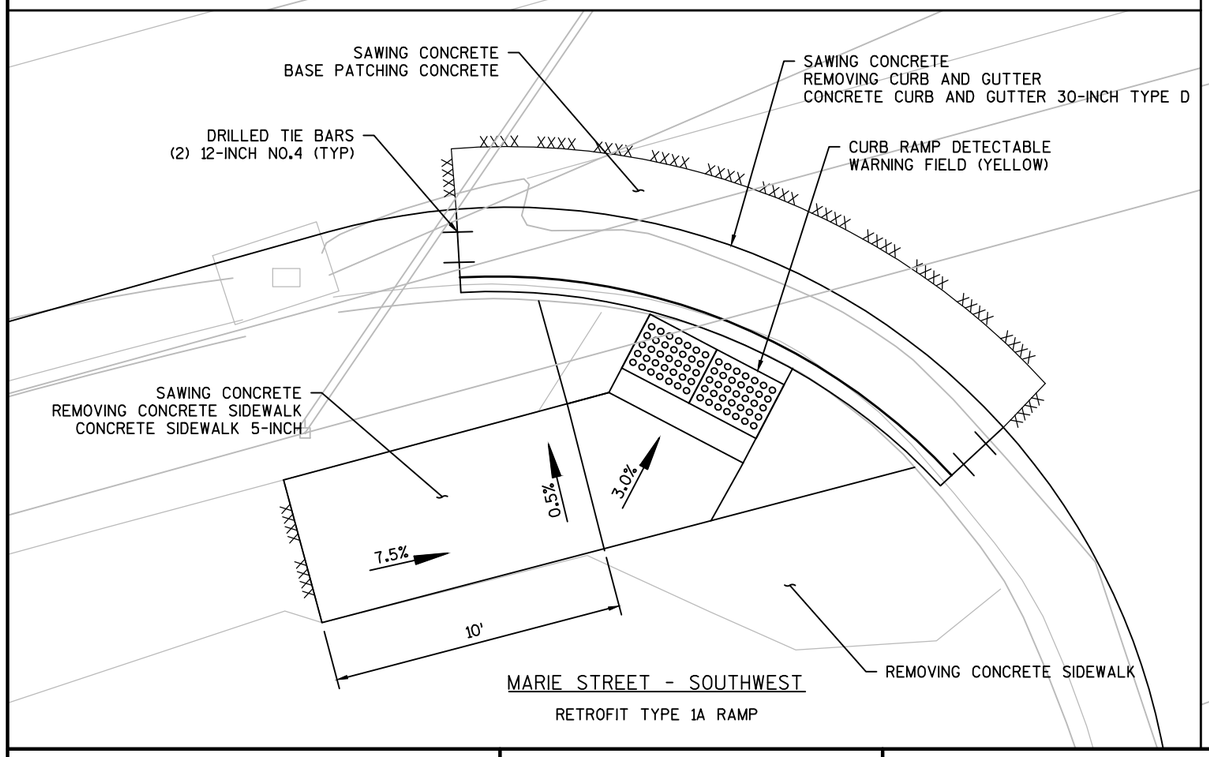
REMOVING PAVEMENT BUTT JOINT DETAIL

MAINLINE STA 395+61.49



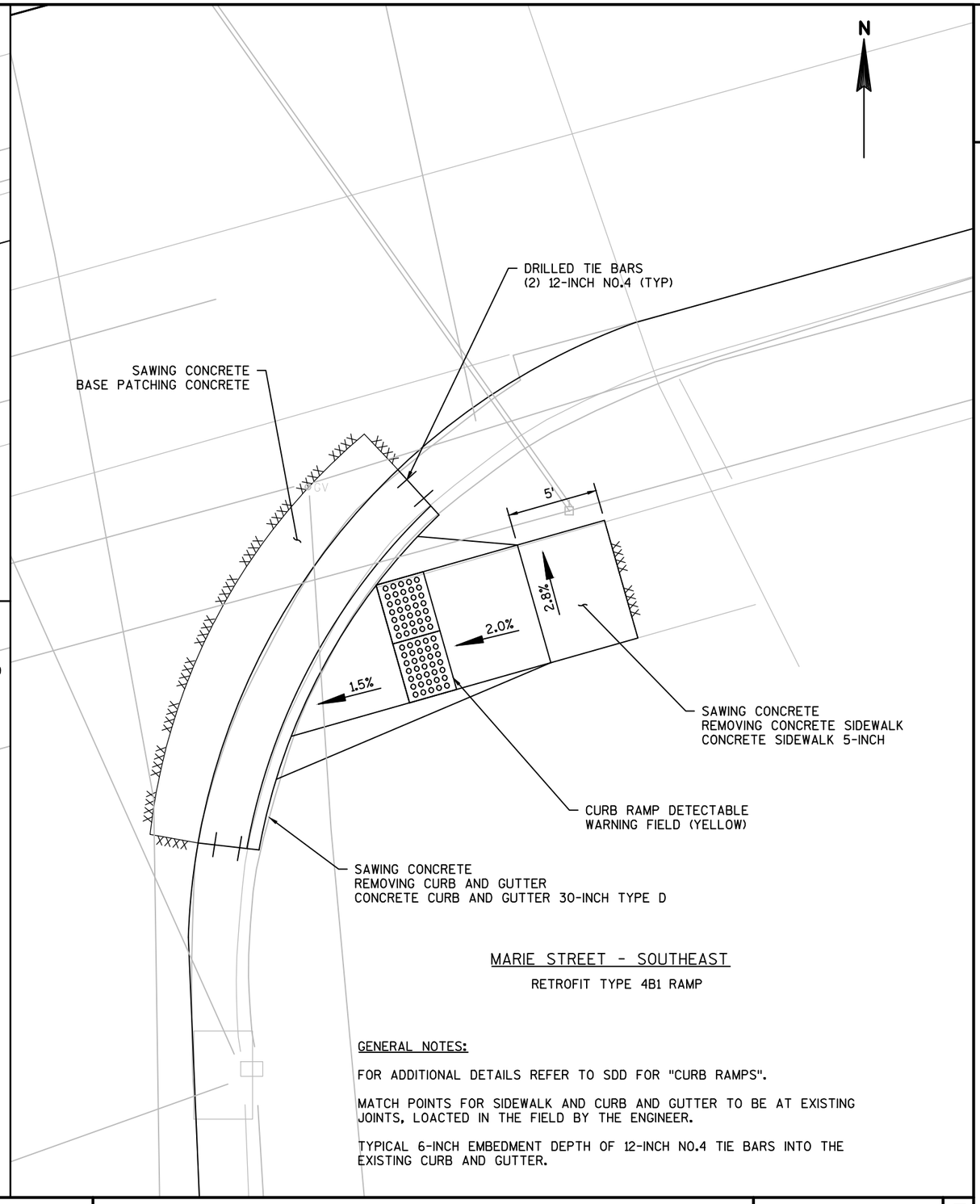
MARIE STREET - NORTH

RETROFIT CURB RAMP DETECTABLE WARNING FIELD



MARIE STREET - SOUTHWEST

RETROFIT TYPE 1A RAMP



MARIE STREET - SOUTHEAST

RETROFIT TYPE 4B1 RAMP

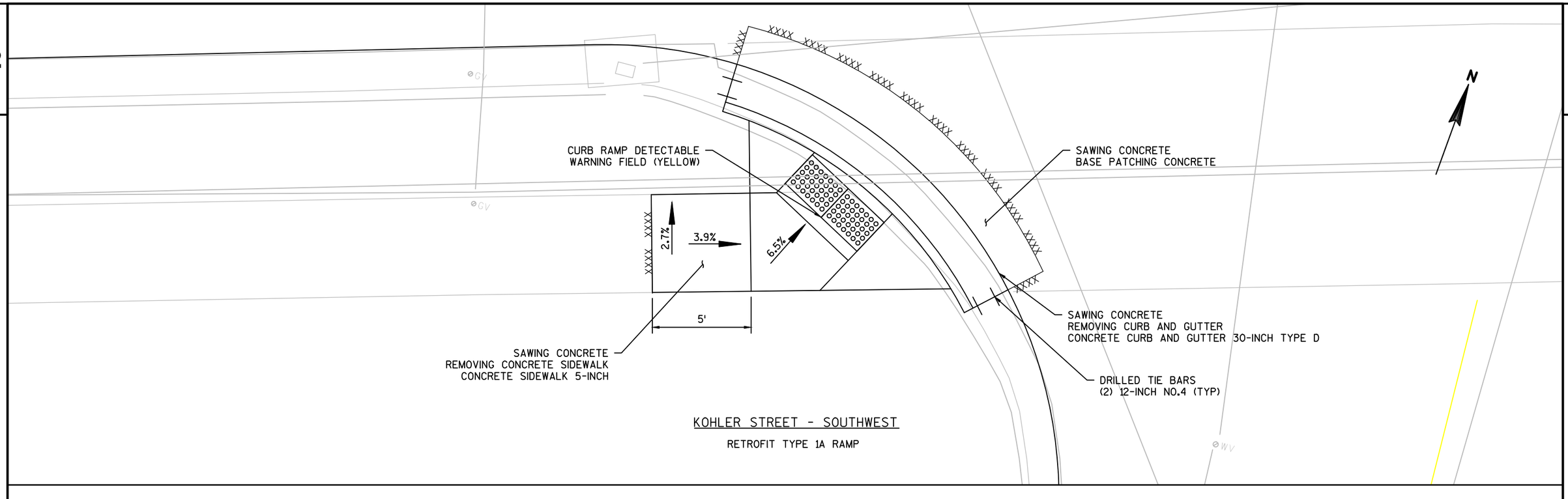
GENERAL NOTES:

FOR ADDITIONAL DETAILS REFER TO SDD FOR "CURB RAMPS".

MATCH POINTS FOR SIDEWALK AND CURB AND GUTTER TO BE AT EXISTING JOINTS, LOACTED IN THE FIELD BY THE ENGINEER.

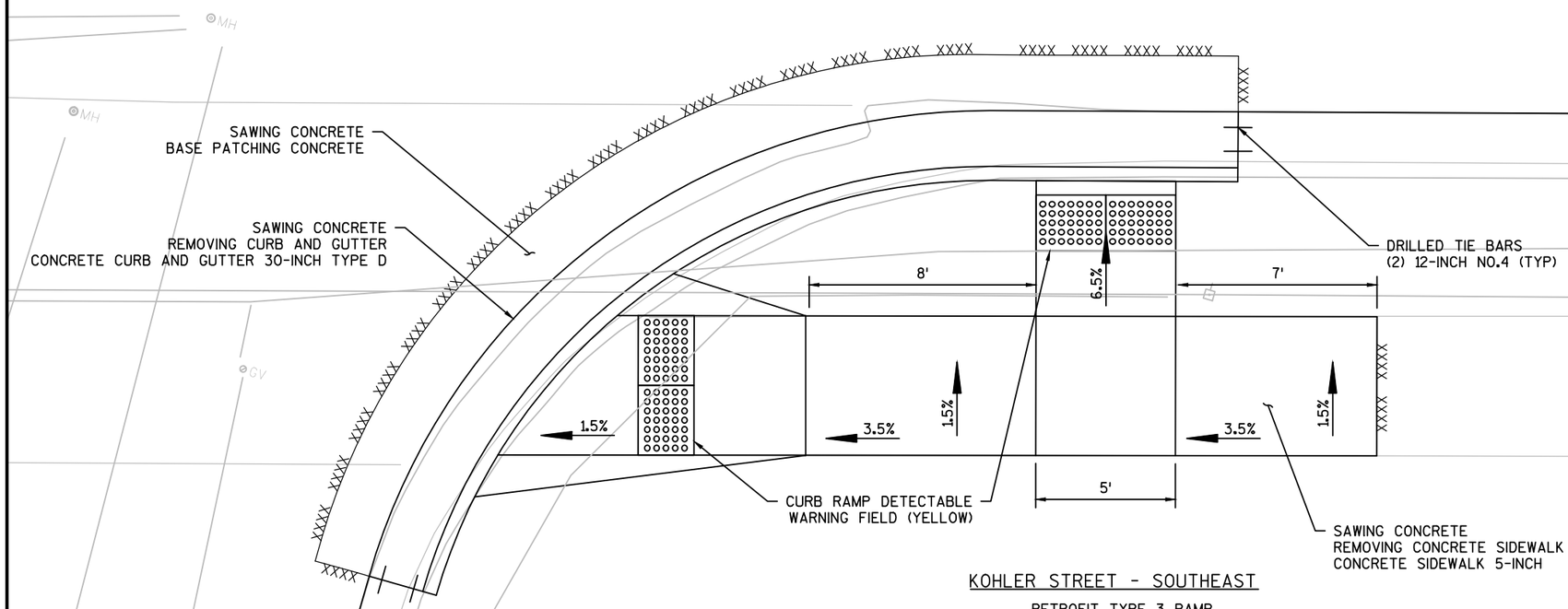
TYPICAL 6-INCH EMBEDMENT DEPTH OF 12-INCH NO.4 TIE BARS INTO THE EXISTING CURB AND GUTTER.

PROJECT NO:1500-27-71	HWY: USH 10	COUNTY: MANITOWOC	CURB RAMP DETAIL - MARIE STREET	SHEET 13	E



KOHLER STREET - SOUTHWEST

RETROFIT TYPE 1A RAMP



KOHLER STREET - SOUTHEAST

RETROFIT TYPE 3 RAMP

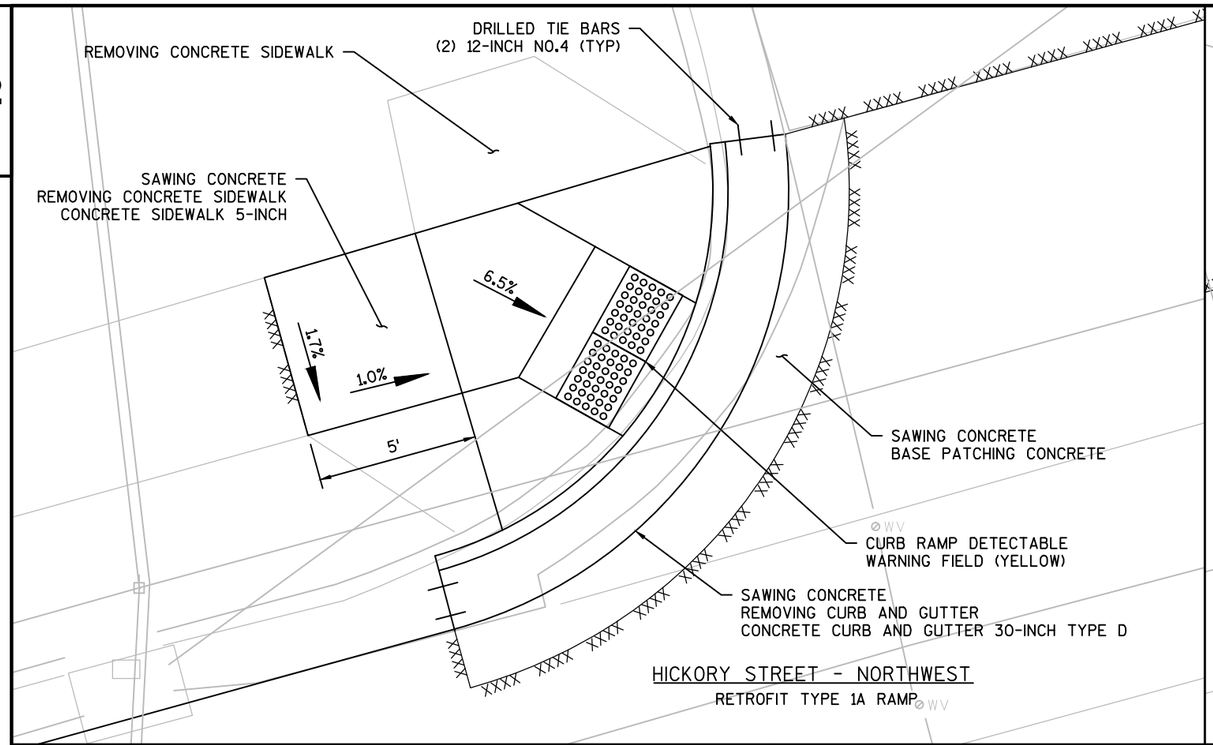
GENERAL NOTES:

FOR ADDITIONAL DETAILS REFER TO SDD FOR "CURB RAMPS".

MATCH POINTS FOR SIDEWALK AND CURB AND GUTTER TO BE AT EXISTING JOINTS, LOACTED IN THE FIELD BY THE ENGINEER.

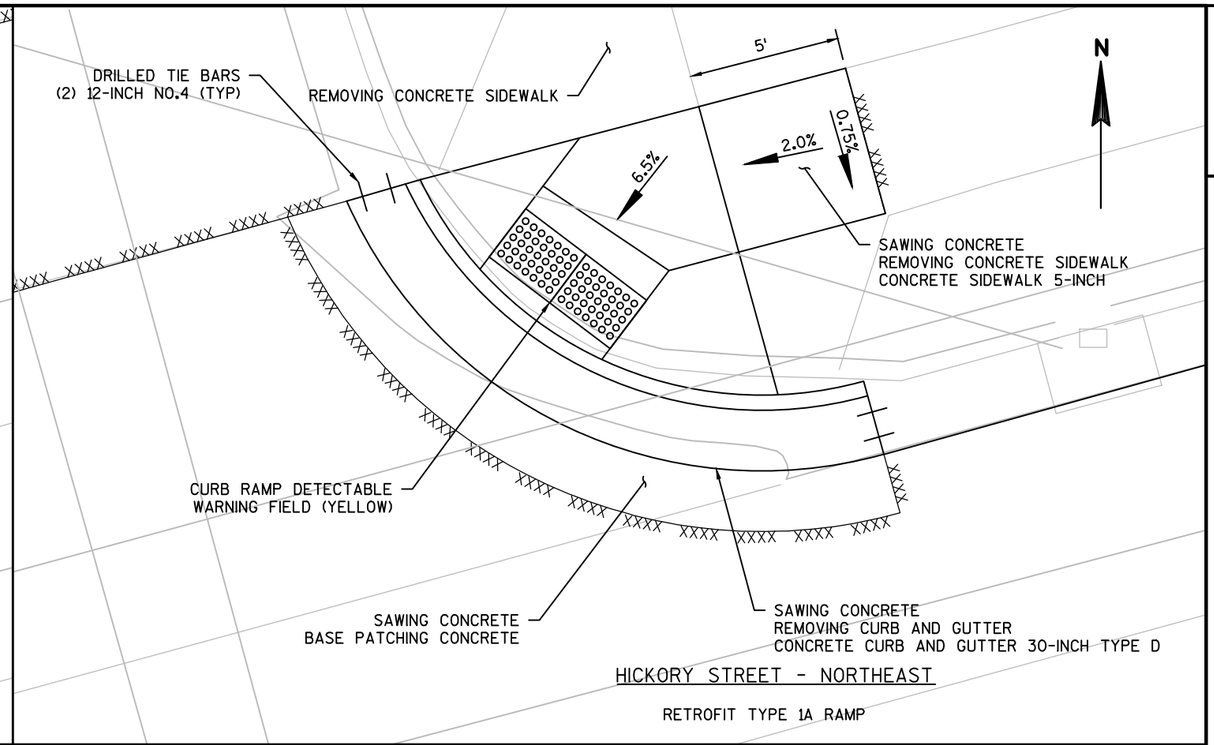
TYPICAL 6-INCH EMBEDMENT DEPTH OF 12-INCH NO.4 TIE BARS INTO THE EXISTING CURB AND GUTTER.

PROJECT NO: 1500-27-71	HWY: USH 10	COUNTY: MANITOWOC	CURB RAMP DETAIL - KOHLER STREET	SHEET 14	E



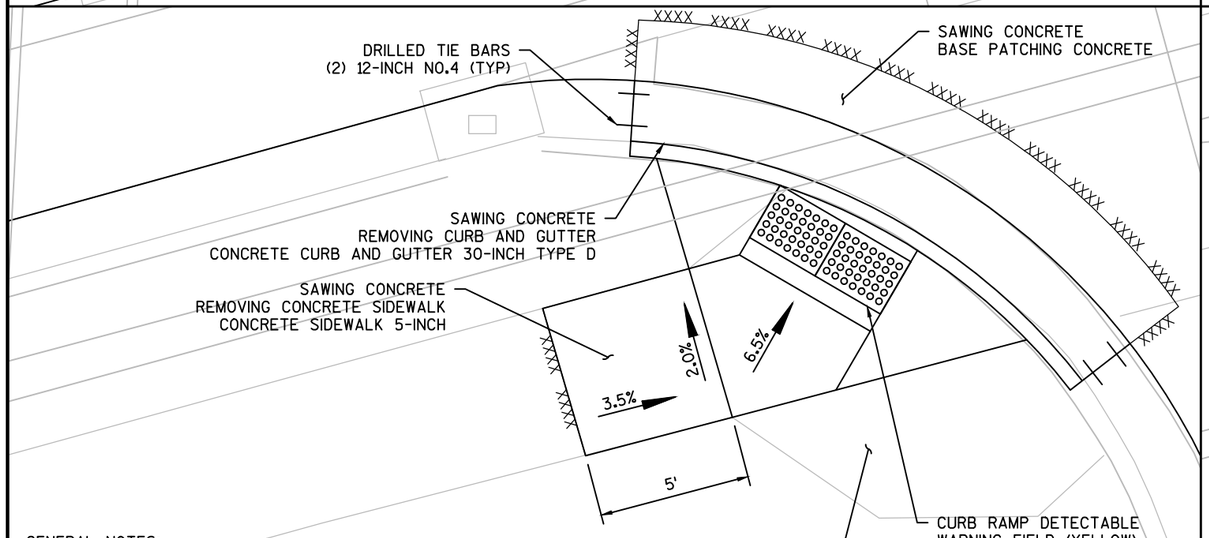
HICKORY STREET - NORTHWEST

RETROFIT TYPE 1A RAMP



HICKORY STREET - NORTHEAST

RETROFIT TYPE 1A RAMP



HICKORY STREET - SOUTHWEST

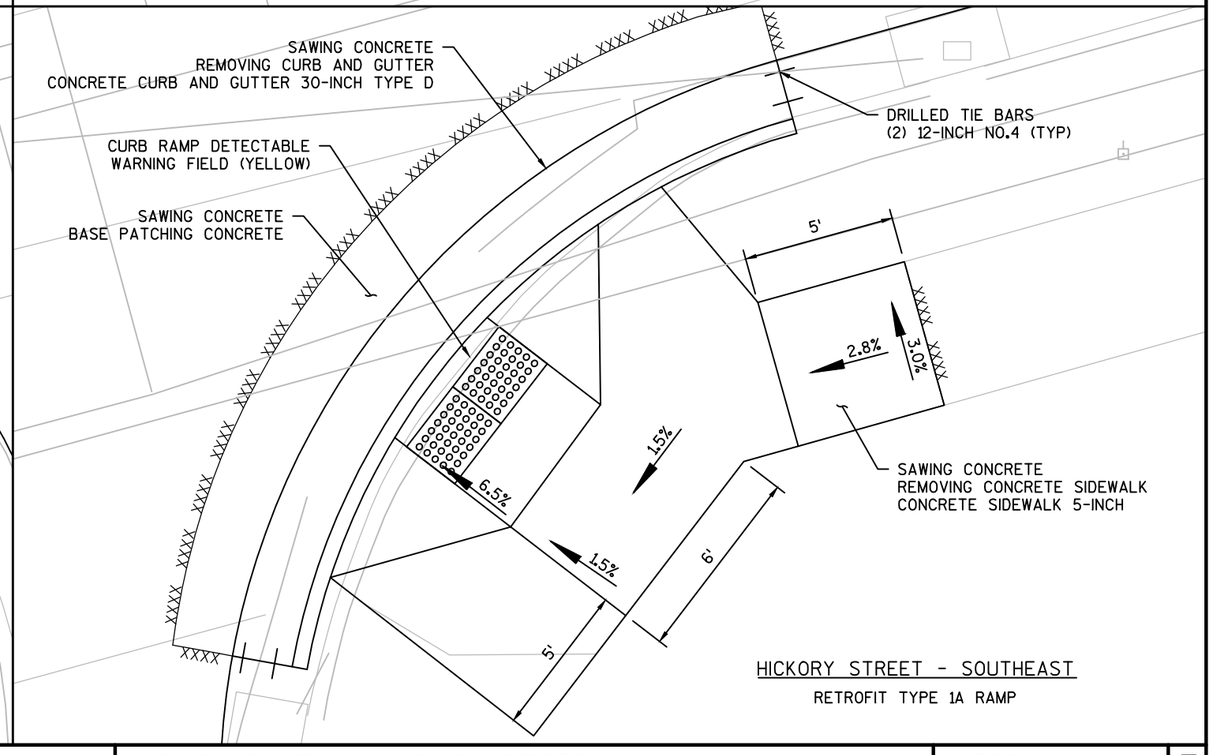
RETROFIT TYPE 1A RAMP

GENERAL NOTES:

FOR ADDITIONAL DETAILS REFER TO SDD FOR "CURB RAMPS".

MATCH POINTS FOR SIDEWALK AND CURB AND GUTTER TO BE AT EXISTING JOINTS, LOACTED IN THE FIELD BY THE ENGINEER.

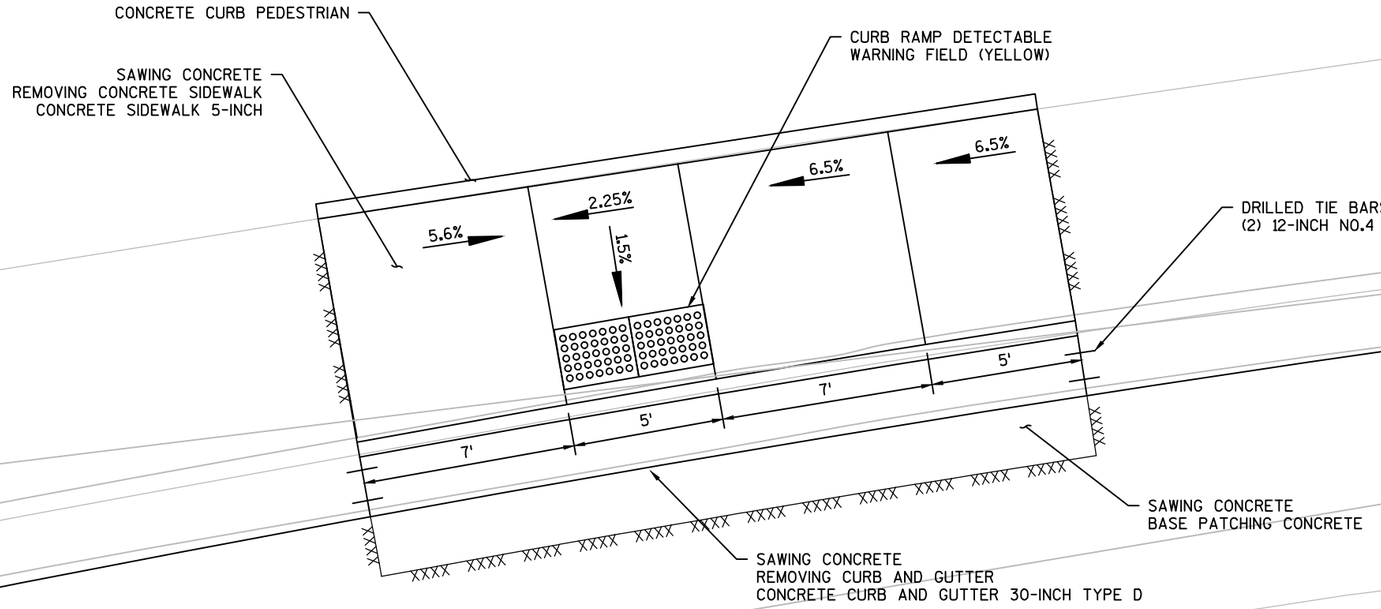
TYPICAL 6-INCH EMBEDMENT DEPTH OF 12-INCH NO.4 TIE BARS INTO THE EXISTING CURB AND GUTTER.



HICKORY STREET - SOUTHEAST

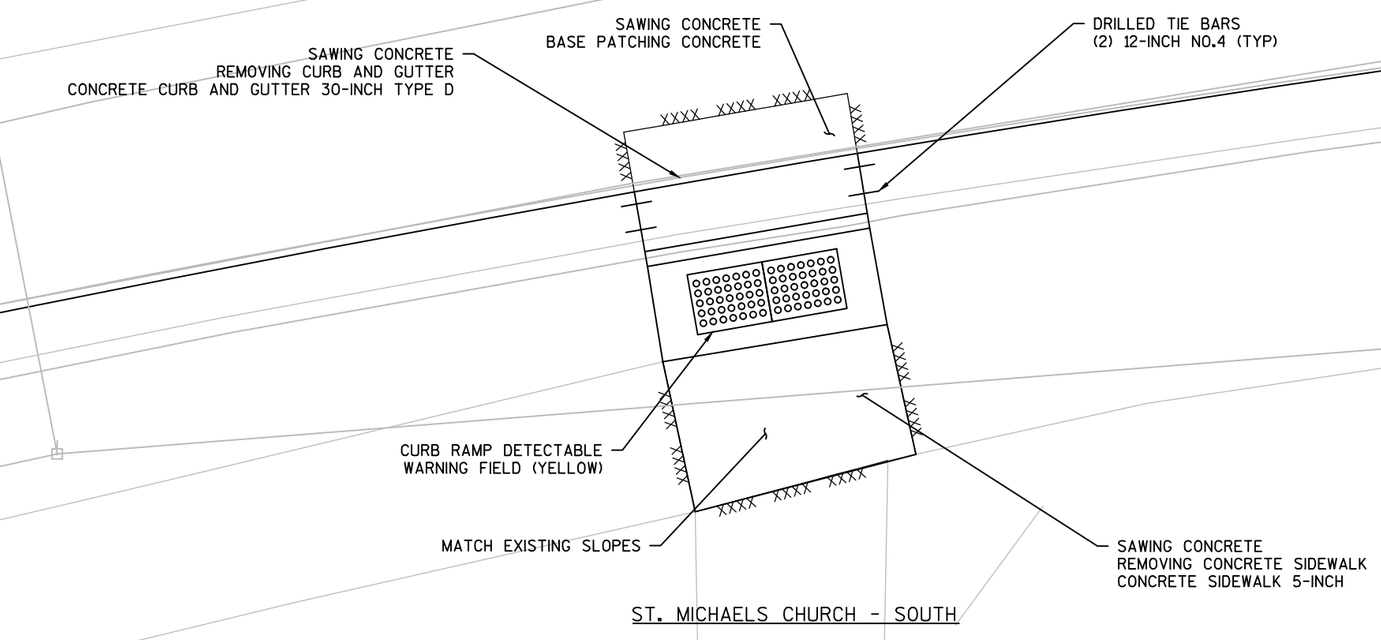
RETROFIT TYPE 1A RAMP

PROJECT NO: 1500-27-71	HWY: USH 10	COUNTY: MANITOWOC	CURB RAMP DETAIL - HICKORY STREET	SHEET 15	E



ST. MICHAELS CHURCH - NORTH

RETROFIT TYPE 7A RAMP



ST. MICHAELS CHURCH - SOUTH

RETROFIT TYPE 7B RAMP

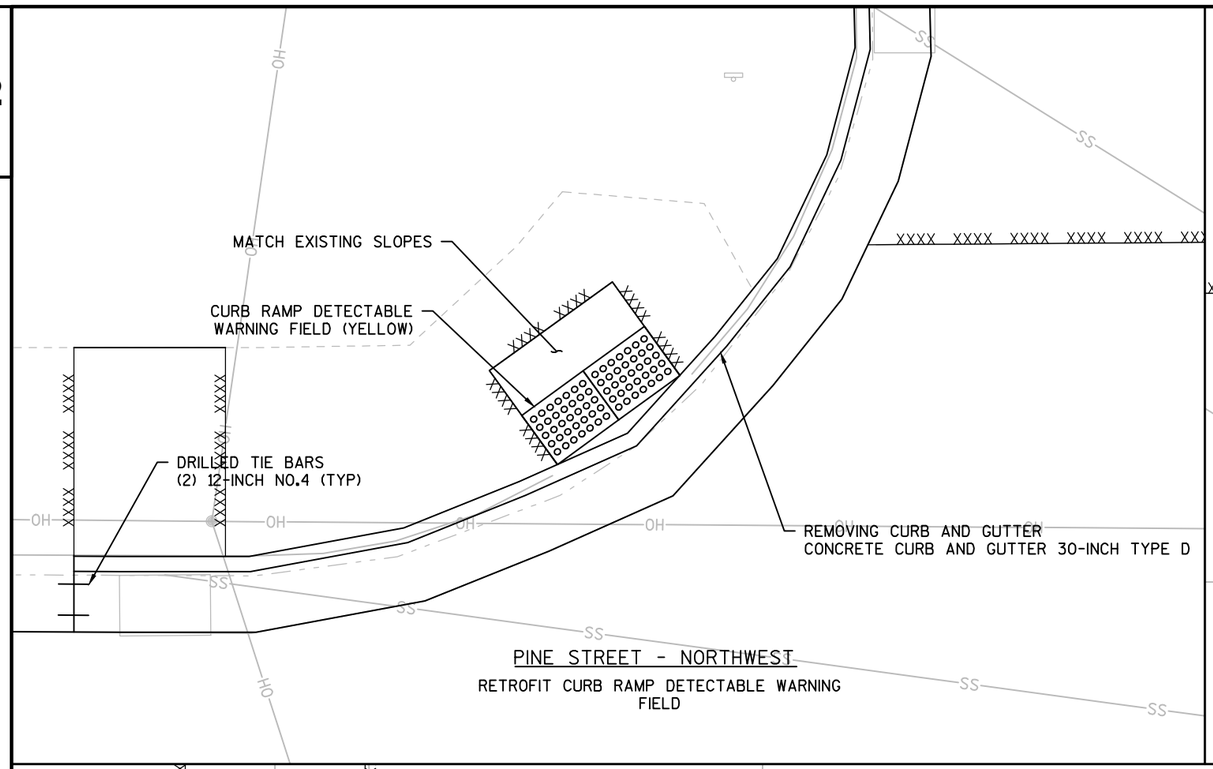
GENERAL NOTES:

FOR ADDITIONAL DETAILS REFER TO SDD FOR "CURB RAMPS".

MATCH POINTS FOR SIDEWALK AND CURB AND GUTTER TO BE AT EXISTING JOINTS, LOACTED IN THE FIELD BY THE ENGINEER.

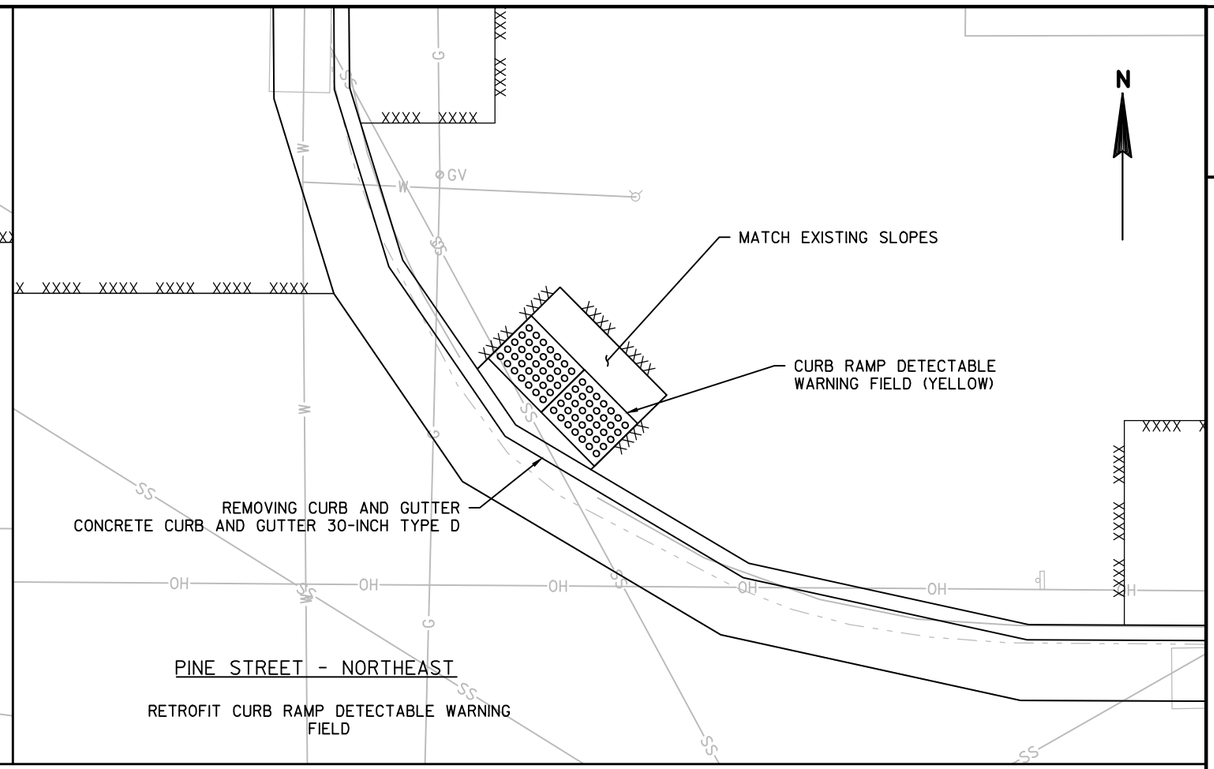
TYPICAL 6-INCH EMBEDMENT DEPTH OF 12-INCH NO.4 TIE BARS INTO THE EXISTING CURB AND GUTTER.

PROJECT NO: 1500-27-71	HWY: USH 10	COUNTY: MANITOWOC	CURB RAMP DETAIL - ST MICHAELS CHURCH SOUTH	SHEET 16	E



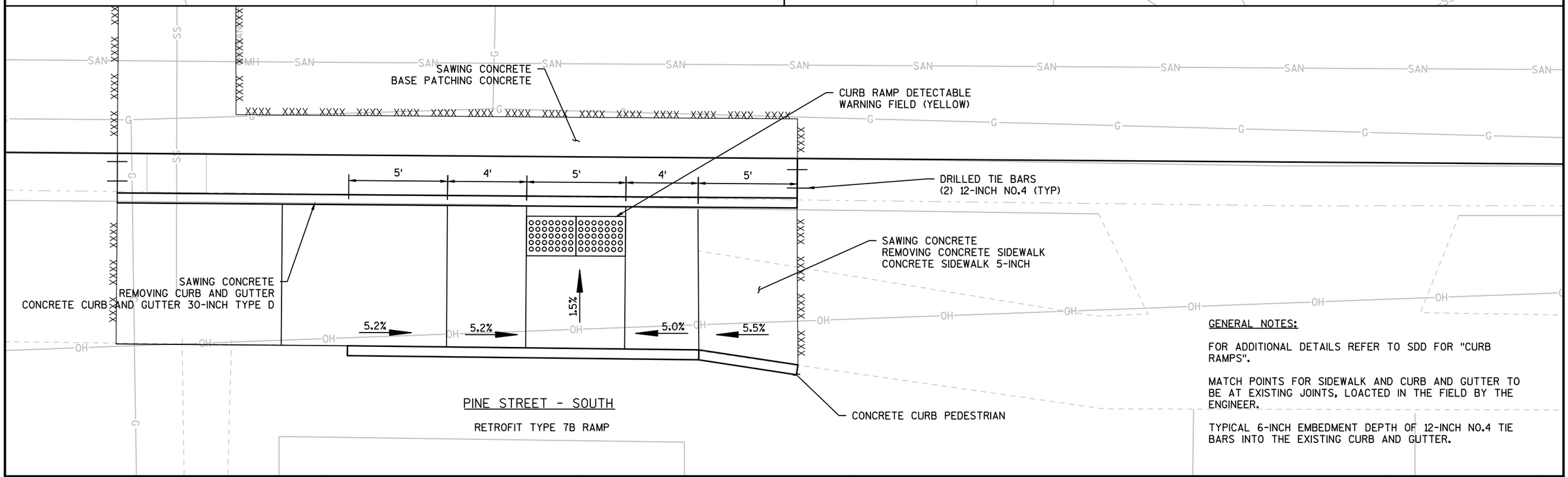
PINE STREET - NORTHWEST

RETROFIT CURB RAMP DETECTABLE WARNING FIELD



PINE STREET - NORTHEAST

RETROFIT CURB RAMP DETECTABLE WARNING FIELD



PINE STREET - SOUTH

RETROFIT TYPE 7B RAMP

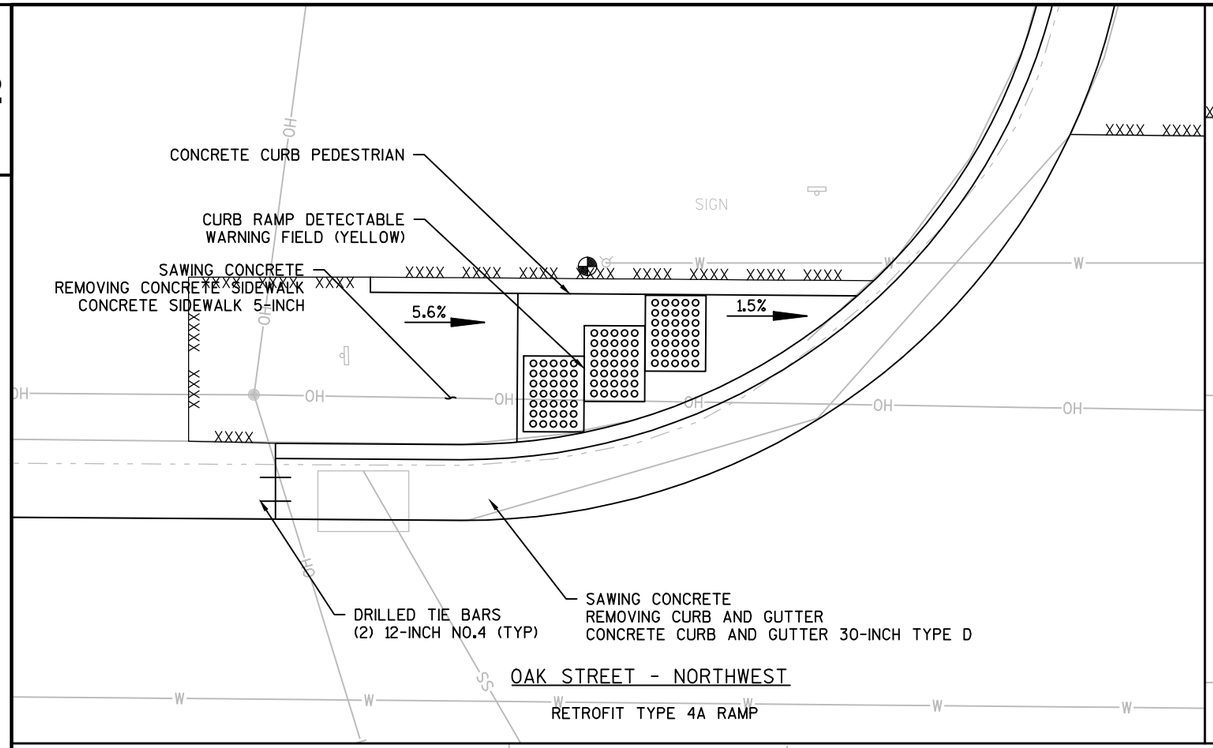
GENERAL NOTES:

FOR ADDITIONAL DETAILS REFER TO SDD FOR "CURB RAMPS".

MATCH POINTS FOR SIDEWALK AND CURB AND GUTTER TO BE AT EXISTING JOINTS, LOACTED IN THE FIELD BY THE ENGINEER.

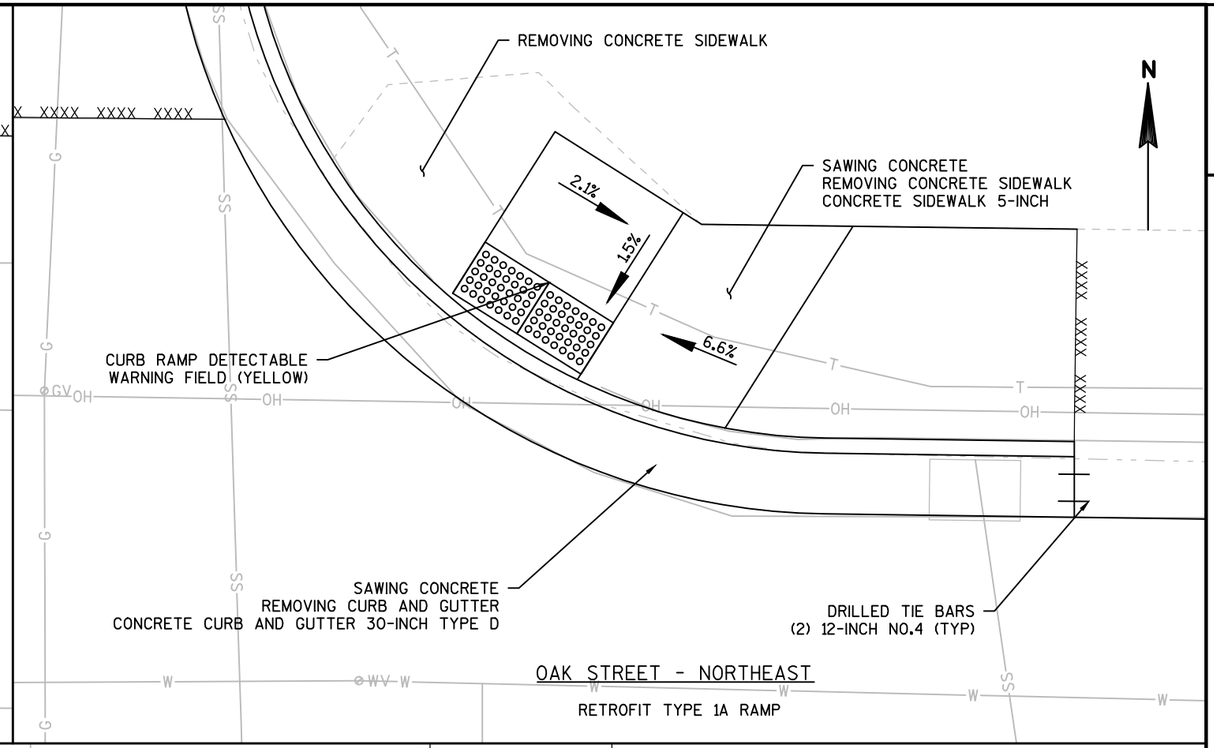
TYPICAL 6-INCH EMBEDMENT DEPTH OF 12-INCH NO.4 TIE BARS INTO THE EXISTING CURB AND GUTTER.

PROJECT NO: 1500-27-71	HWY: USH 10	COUNTY: MANITOWOC	CURB RAMP DETAIL - PINE STREET	SHEET 17	E



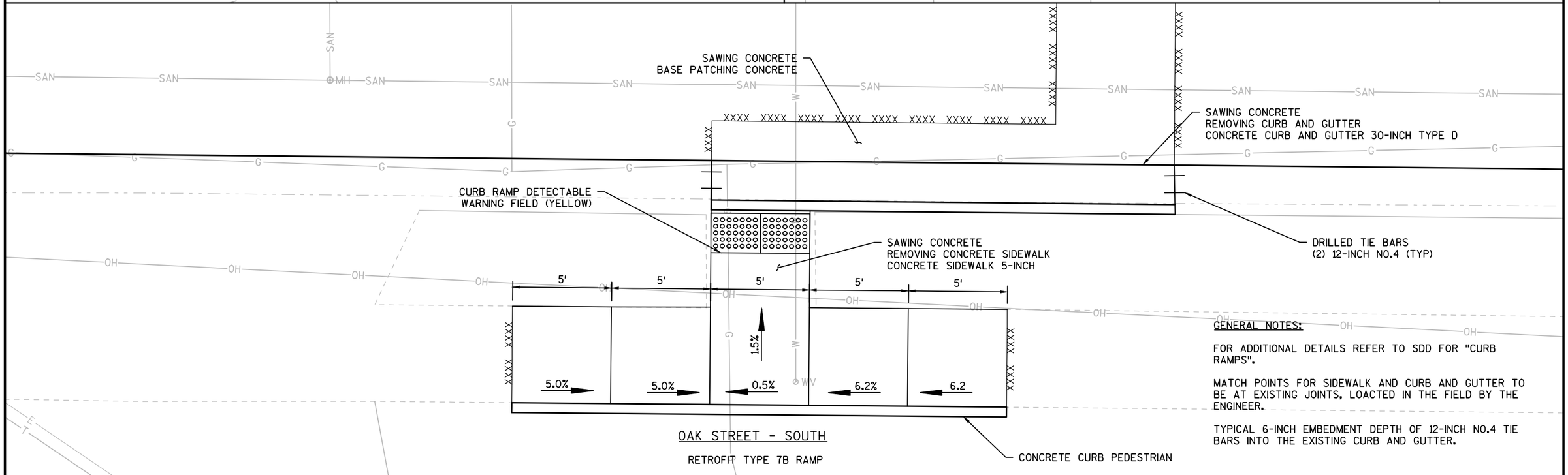
OAK STREET - NORTHWEST

RETROFIT TYPE 4A RAMP



OAK STREET - NORTHEAST

RETROFIT TYPE 1A RAMP



OAK STREET - SOUTH

RETROFIT TYPE 7B RAMP

GENERAL NOTES:

FOR ADDITIONAL DETAILS REFER TO SDD FOR "CURB RAMPS".

MATCH POINTS FOR SIDEWALK AND CURB AND GUTTER TO BE AT EXISTING JOINTS, LOACTED IN THE FIELD BY THE ENGINEER.

TYPICAL 6-INCH EMBEDMENT DEPTH OF 12-INCH NO.4 TIE BARS INTO THE EXISTING CURB AND GUTTER.

PROJECT NO: 1500-27-71	HWY: USH 10	COUNTY: MANITOWOC	CURB RAMP DETAIL - OAK STREET	SHEET 18	E

2

N

DRILLED TIE BARS
(2) 12-INCH NO.4 (TYP)

SAWING CONCRETE
BASE PATCHING CONCRETE

SAWING CONCRETE
REMOVING CURB AND GUTTER
CONCRETE CURB AND GUTTER 30-INCH TYPE D

CURB RAMP DETECTABLE
WARNING FIELD (YELLOW)

0.5%

1.5%

5'

SAWING CONCRETE
REMOVING CONCRETE SIDEWALK
CONCRETE SIDEWALK 5-INCH

ELM STREET - SOUTHWEST

RETROFIT TYPE 1A RAMP

SAWING CONCRETE
BASE PATCHING CONCRETE

DRILLED TIE BARS
(2) 12-INCH NO.4 (TYP)

SAWING CONCRETE
REMOVING CONCRETE SIDEWALK
CONCRETE SIDEWALK 5-INCH

CURB RAMP DETECTABLE
WARNING FIELD (YELLOW)

CONCRETE CURB PEDESTRIAN

1.5%

5.0%

10'

4'

REMOVING CONCRETE SIDEWALK

SAWING CONCRETE
REMOVING CURB AND GUTTER
CONCRETE CURB AND GUTTER 30-INCH TYPE D

ELM STREET - SOUTHEAST

RETROFIT TYPE 4A RAMP

GENERAL NOTES:

FOR ADDITIONAL DETAILS REFER TO SDD FOR "CURB RAMPS".

MATCH POINTS FOR SIDEWALK AND CURB AND GUTTER TO BE AT EXISTING JOINTS, LOACTED IN THE FIELD BY THE ENGINEER.

TYPICAL 6-INCH EMBEDMENT DEPTH OF 12-INCH NO.4 TIE BARS INTO THE EXISTING CURB AND GUTTER.

PROJECT NO: 1500-27-71	HWY: USH 10	COUNTY: MANITOWOC	CURB RAMP DETAIL - ELM STREET	SHEET 19	E

2

DRILLED TIE BARS
(2) 12-INCH NO.4 (TYP)

CURB RAMP DETECTABLE
WARNING FIELD (YELLOW)

SAWING CONCRETE
REMOVING CONCRETE SIDEWALK
CONCRETE SIDEWALK 5-INCH

SAWING CONCRETE
REMOVING CURB AND GUTTER
CONCRETE CURB AND GUTTER 30-INCH TYPE D

CHERRY STREET - NORTHWEST

RETROFIT CURB RAMP DETECTABLE
WARNING FIELD

CHERRY STREET - NORTHEAST

NO WORK - LEAVE AS-IS

N

2

SAWING CONCRETE
BASE PATCHING CONCRETE

SAWING CONCRETE
REMOVING CURB AND GUTTER
CONCRETE CURB AND GUTTER 30-INCH TYPE D

SAWING CONCRETE
REMOVING CONCRETE SIDEWALK
CONCRETE SIDEWALK 5-INCH

CURB RAMP DETECTABLE
WARNING FIELD (YELLOW)

DRILLED TIE BARS
(2) 12-INCH NO.4 (TYP)

CHERRY STREET - SOUTHWEST

RETROFIT CURB RAMP DETECTABLE
WARNING FIELD

SAWING CONCRETE
REMOVING CURB AND GUTTER
CONCRETE CURB AND GUTTER 30-INCH TYPE D

SAWING CONCRETE
BASE PATCHING CONCRETE

DRILLED TIE BARS
(2) 12-INCH NO.4 (TYP)

CURB RAMP DETECTABLE
WARNING FIELD (YELLOW)

SAWING CONCRETE
REMOVING CONCRETE SIDEWALK
CONCRETE SIDEWALK 5-INCH

GENERAL NOTES:

FOR ADDITIONAL DETAILS REFER TO SDD FOR "CURB RAMPS".

MATCH POINTS FOR SIDEWALK AND CURB AND GUTTER TO BE AT EXISTING JOINTS, LOACTED IN THE FIELD BY THE ENGINEER.

TYPICAL 6-INCH EMBEDMENT DEPTH OF 12-INCH NO.4 TIE BARS INTO THE EXISTING CURB AND GUTTER.

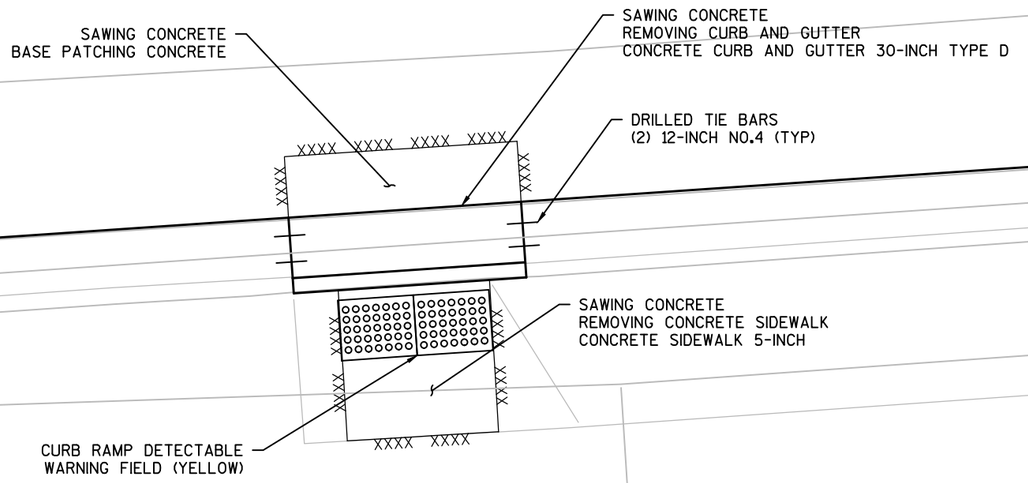
CHERRY STREET - SOUTHEAST

RETROFIT CURB RAMP DETECTABLE
WARNING FIELD

PROJECT NO:1500-27-71	HWY: USH 10	COUNTY: MANITOWOC	CURB RAMP DETAIL - CTH S	SHEET 20	E

FIREHOUSE - NORTH

RETROFIT TYPE 7B RAMP



FIREHOUSE - SOUTH

RETROFIT CURB RAMP DETECTABLE
WARNING FIELD

GENERAL NOTES:

FOR ADDITIONAL DETAILS REFER TO SDD FOR "CURB RAMPS".

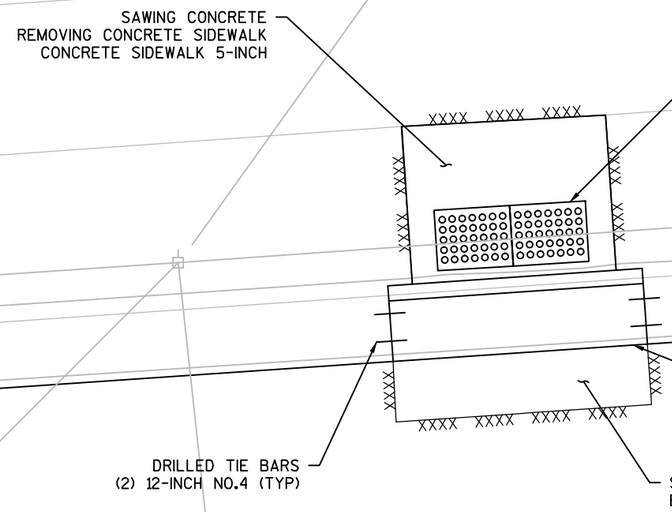
MATCH POINTS FOR SIDEWALK AND CURB AND GUTTER TO BE AT EXISTING JOINTS, LOACTED IN THE FIELD BY THE ENGINEER.

TYPICAL 6-INCH EMBEDMENT DEPTH OF 12-INCH NO.4 TIE BARS INTO THE EXISTING CURB AND GUTTER.

PROJECT NO: 1500-27-71	HWY: USH 10	COUNTY: MANITOWOC	CURB RAMP DETAIL - FIREHOUSE	SHEET 21	E

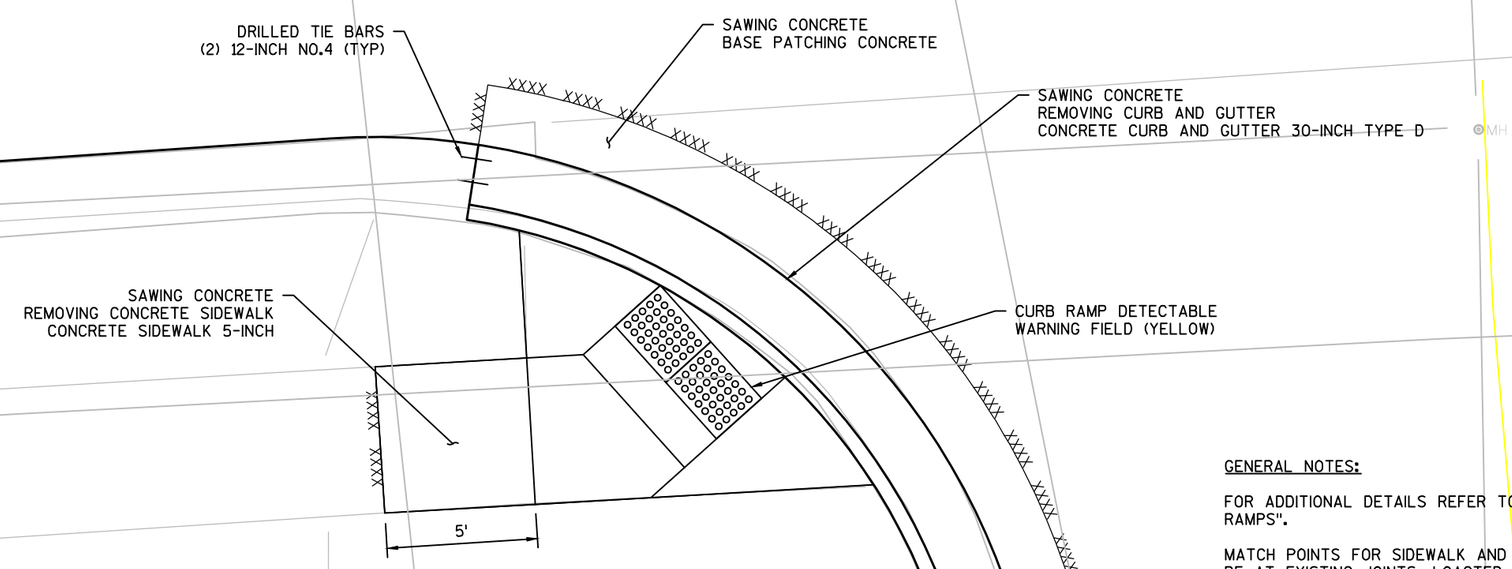
2

N



CHESTNUT LANE - NORTH

RETROFIT CURB RAMP DETECTABLE
WARNING FIELD



CHESTNUT LANE - SOUTH

RETROFIT TYPE 1 RAMP

GENERAL NOTES:

FOR ADDITIONAL DETAILS REFER TO SDD FOR "CURB RAMPS".

MATCH POINTS FOR SIDEWALK AND CURB AND GUTTER TO BE AT EXISTING JOINTS, LOACTED IN THE FIELD BY THE ENGINEER.

TYPICAL 6-INCH EMBEDMENT DEPTH OF 12-INCH NO.4 TIE BARS INTO THE EXISTING CURB AND GUTTER.

PROJECT NO: 1500-27-71	HWY: USH 10	COUNTY: MANITOWOC	CURB RAMP DETAIL - CHESTNUT LANE	SHEET 22	E

2

N

11+00

END CONSTRUCTION
STA 11+00
MATCH EXISTING
SAWING ASPHALT REQ'D

PINE ST

END REMOVING PAVEMENT
END CONCRETE
BASE 7-INCH

REMOVING INLETS

ABANDON STORM SEWER
12-INCH

REMOVING STORM SEWER
12-INCH XXXX

REMOVING INLETS

MATCH AT EXISTING
CURB AND GUTTER
1 3/4-INCH BELOW FLANGE LINE
SEE CONSTRUCTION DETAILS
SAWING CONCRETE REQ'D

REMOVING STORM SEWER
12-INCH

REMOVING INLETS

MATCH AT EXISTING
CURB AND GUTTER
1 3/4-INCH BELOW FLANGE LINE
SEE CONSTRUCTION DETAILS
SAWING CONCRETE REQ'D

13'

8'

12'

372+00.00, -20.50' LT

USH 10

856.039 855.937 855.900 855.892 855.951 856.006 856.054 856.118

REMOVING STORM SEWER
12-INCH

REMOVING MANHOLES

MATCH EXISTING
CONCRETE PAVEMENT

BP: 10+00.00

371+00 372+00 373+00 374+00

372+00.00, 0.00'

372+49.48, 0.00'

372+55.29, 0.00'

ABANDONING STORM SEWER

REMOVING INLETS

REMOVING PAVEMENT
CONCRETE BASE 7-INCH
SEE CONSTRUCTION DETAILS

NOTES:
PROPOSED ELEVATIONS ARE FOR
CONCRETE BASE AT STATIONS EVERY 25'
- SEE CONSTRUCTION DETAILS

REMOVAL AND REPLACEMENT OF SIDEWALK
PANELS BEHIND INLET REMOVAL TO BE
DETERMINED BY ENGINEER IN FIELD

PROJECT NO: 1500-27-71	HWY: USH 10	COUNTY: MANITOWOC	PLAN DETAILS	SHEET 23	E

FILE NAME : N:\PDS\C3D\15002700\SHEETSPLAN\021201_PD.DWG
LAYOUT NAME - 021201_PD

PLOT DATE : 3/2/2017 2:28 PM PLOT BY : WALCZYK, BENJAMIN J PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 42

2

N

MATCH AT EXISTING CURB AND GUTTER
1 3/4-INCH BELOW FLANGE LINE
SEE CONSTRUCTION DETAILS
SAWING CONCRETE REQ'D

ABANDONING MANHOLES

ABANDONING STORM SEWER

ABANDONING STORM SEWER

856.054 856.118 856.152 856.197 856.243 856.259 856.205 856.111 855.996 855.837 855.690 855.572 855.461

8'

12'

USH 10

374+00 375+00 376+00

REMOVING PAVEMENT
CONCRETE BASE 7-INCH
SEE CONSTRUCTION DETAIL

NOTES:
PROPOSED ELEVATIONS ARE FOR
CONCRETE BASE AT STATIONS EVERY 25'
- SEE CONSTRUCTION DETAILS

REMOVAL AND REPLACEMENT OF SIDEWALK
PANELS BEHIND INLET REMOVAL TO BE
DETERMINED BY ENGINEER IN FIELD

PROJECT NO: 1500-27-71	HWY: USH 10	COUNTY: MANITOWOC	PLAN DETAILS	SHEET 24	E

2

N

MATCH AT EXISTING
CURB AND GUTTER
1 3/4-INCH BELOW FLANGE LINE
SEE CONSTRUCTION DETAILS
SAWING CONCRETE REQ'D

REMOVING INLETS

ABANDON STORM SEWER
12-INCH

REMOVING INLETS

END CONCRETE BASE 7-INCH

REMOVING CONCRETE BASE

REMOVING STORM SEWER
12-INCH

MATCH AT EXISTING
CURB AND GUTTER
1 3/4-INCH BELOW FLANGE LINE
SEE CONSTRUCTION DETAILS
SAWING CONCRETE REQ'D

BM #603

ABANDONING STORM SEWER

REMOVING INLETS

REMOVING INLETS

OAK ST

13'

8'

12'

REMOVING STORM SEWER
12-INCH

REMOVING STORM SEWER
12-INCH

855.572 855.461 855.338 855.290 855.257 855.274 855.340 855.408 855.470 855.562 855.631 855.701 855.756

REMOVING MANHOLES

REMOVING MANHOLES

BP: 10+00.00

377+00

378+00

379+00

USH 10

377+61.98, 0.00'

377+67.94, 0.00' RT

378+33.93, 0.00'

378+39.93, 0.00'

ABANDONING STORM SEWER

EP: 1

REMOVING PAVEMENT
CONCRETE BASE 7-INCH
SEE CONSTRUCTION DETAIL

REMOVING INLETS &
REMOVE AND REPLACE
CURB AND GUTTER

REMOVING STORM SEWER
12-INCH

GUY

NOTES:
PROPOSED ELEVATIONS ARE FOR
CONCRETE BASE AT STATIONS EVERY 25'
- SEE CONSTRUCTION DETAILS

REMOVAL AND REPLACEMENT OF SIDEWALK
PANELS BEHIND INLET REMOVAL TO BE
DETERMINED BY ENGINEER IN FIELD

PROJECT NO: 1500-27-71	HWY: USH 10	COUNTY: MANITOWOC	PLAN DETAILS	SHEET 25	E

2

2

N

ABANDONING STORM SEWER

REMOVING INLETS

REMOVING STORM SEWER
12-INCH

ABANDONING STORM SEWER

MATCH AT EXISTING
CURB AND GUTTER
1 3/4-INCH BELOW FLANGE LINE
SEE CONSTRUCTION DETAILS
SAWING CONCRETE REQ'D

REMOVING PAVEMENT
CONCRETE BASE 7-INCH
SEE CONSTRUCTION DETAILS

REMOVING MANHOLES

855.701 855.756 855.812 855.900 856.008 856.068 856.147 856.199 856.271 856.351 856.429 856.483 856.549

379+81.82, 0.00'

380+00 381+00 382+00

EP: 11+42.02

379+87.83, 0.00'

USH 10

REMOVING STORM SEWER
15-INCH

EXISTING INLET
TO REMAIN

EXISTING STORM SEWER
TO REMAIN

REMOVING MANHOLES

11+00

EXISTING INLET
TO REMAIN

EXISTING STORM SEWER
TO REMAIN

EXISTING INLET
TO REMAIN

EXISTING STORM SEWER
TO REMAIN

END CONSTRUCTION
STA 10+95
MATCH EXISTING
SAWING ASPHALT REQ'D

ELM ST

A/C

NOTES:
PROPOSED ELEVATIONS ARE FOR
CONCRETE BASE AT STATIONS EVERY 25'
- SEE CONSTRUCTION DETAILS

REMOVAL AND REPLACEMENT OF SIDEWALK
PANELS BEHIND INLET REMOVAL TO BE
DETERMINED BY ENGINEER IN FIELD

PROJECT NO: 1500-27-71	HWY: USH 10	COUNTY: MANITOWOC	PLAN DETAILS	SHEET 26	E

2

N

N. CHERRY ST (CTH S)

END CONSTRUCTION
MATCH EXISTING
SAWING ASPHALT REQ'D

EXISTING STORM SEWER
TO REMAIN

383+34.36, -33.69' LT

REMOVING PAVEMENT
CONCRETE BASE 7-INCH
SEE CONSTRUCTION DETAILS

MATCH AT EXISTING
CURB AND GUTTER
1 3/4-INCH BELOW FLANGE LINE
SEE CONSTRUCTION DETAILS
SAWING CONCRETE REQ'D

EXISTING STORM SEWER
TO REMAIN

REMOVING
MANHOLES

856.429 856.483 856.549 856.605 856.706 856.790

ABANDONING STORM SEWER

EXISTING INLET
TO REMAIN

MATCH EXISTING
CONCRETE PAVEMENT

382+00 383+00 384+00

383+34.79, 0.00'

EXISTING INLET
TO REMAIN

EXISTING STORM SEWER
TO REMAIN

EXISTING MANHOLE
TO REMAIN

END CONSTRUCTION
MATCH EXISTING
SAWING ASPHALT REQ'D

EXISTING INLET
TO REMAIN

EXISTING INLET
TO REMAIN

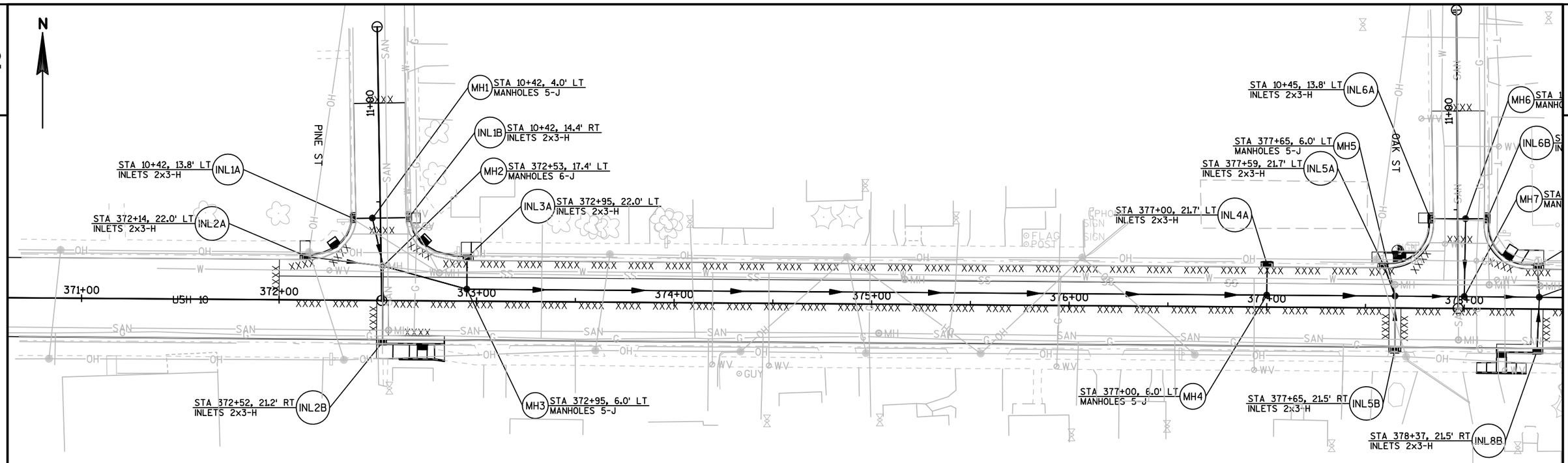
EXISTING STORM SEWER
TO REMAIN

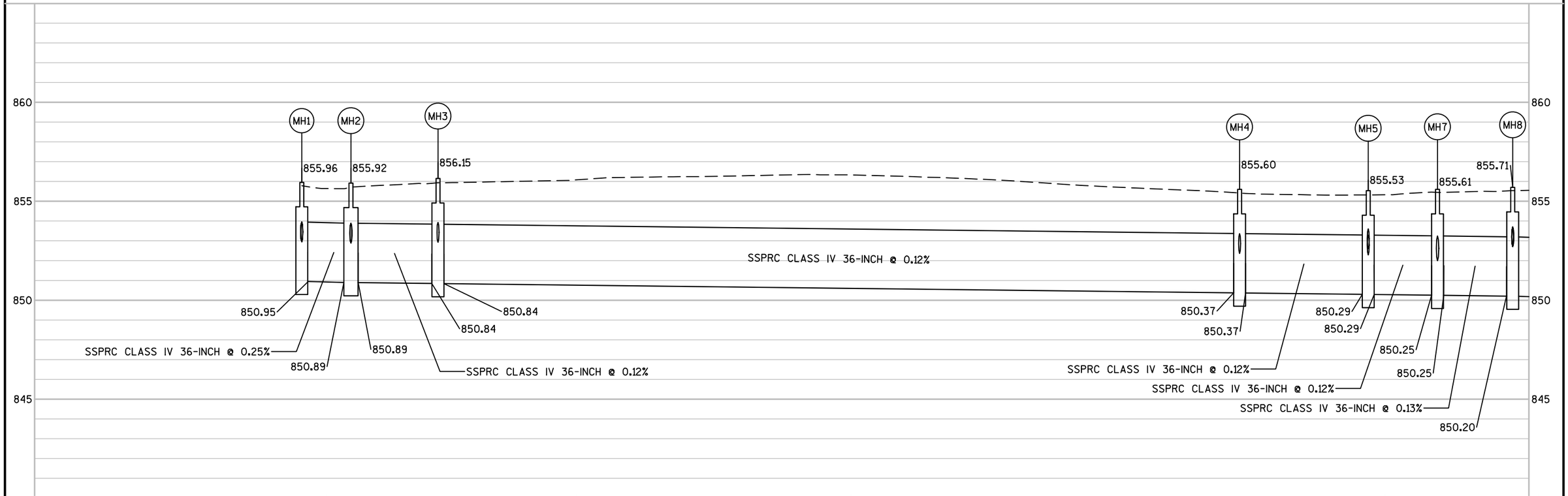
S. CHERRY ST (CTH S)

NOTES:
PROPOSED ELEVATIONS ARE FOR
CONCRETE BASE AT STATIONS EVERY 25'
- SEE CONSTRUCTION DETAILS

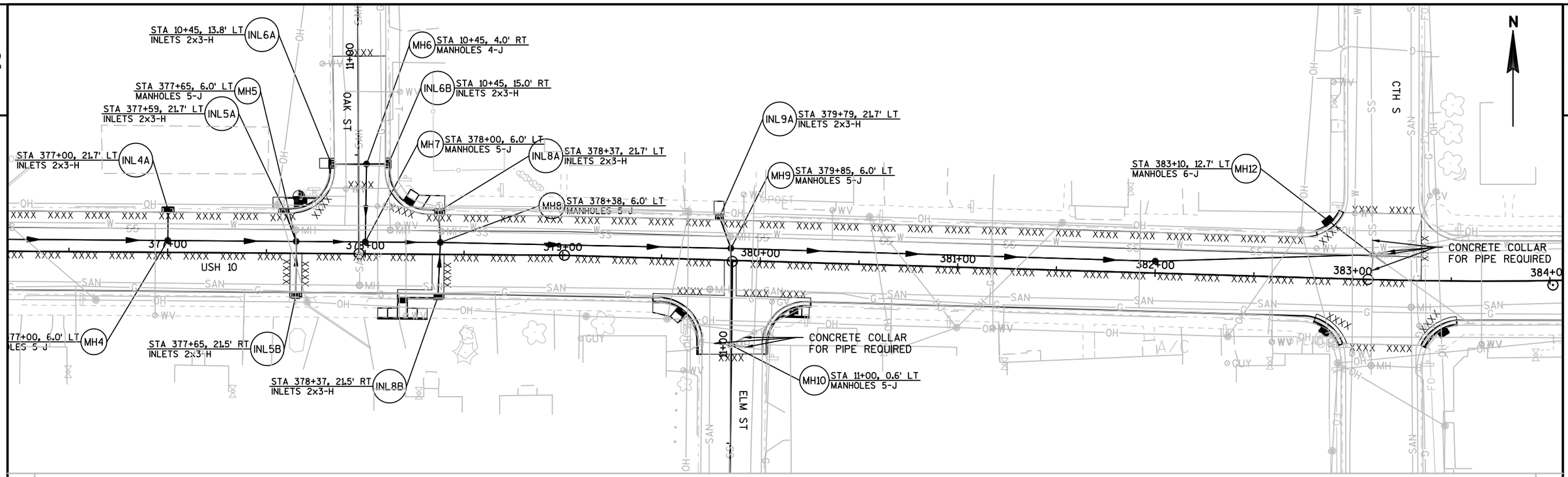
REMOVAL AND REPLACEMENT OF SIDEWALK
PANELS BEHIND INLET REMOVAL TO BE
DETERMINED BY ENGINEER IN FIELD

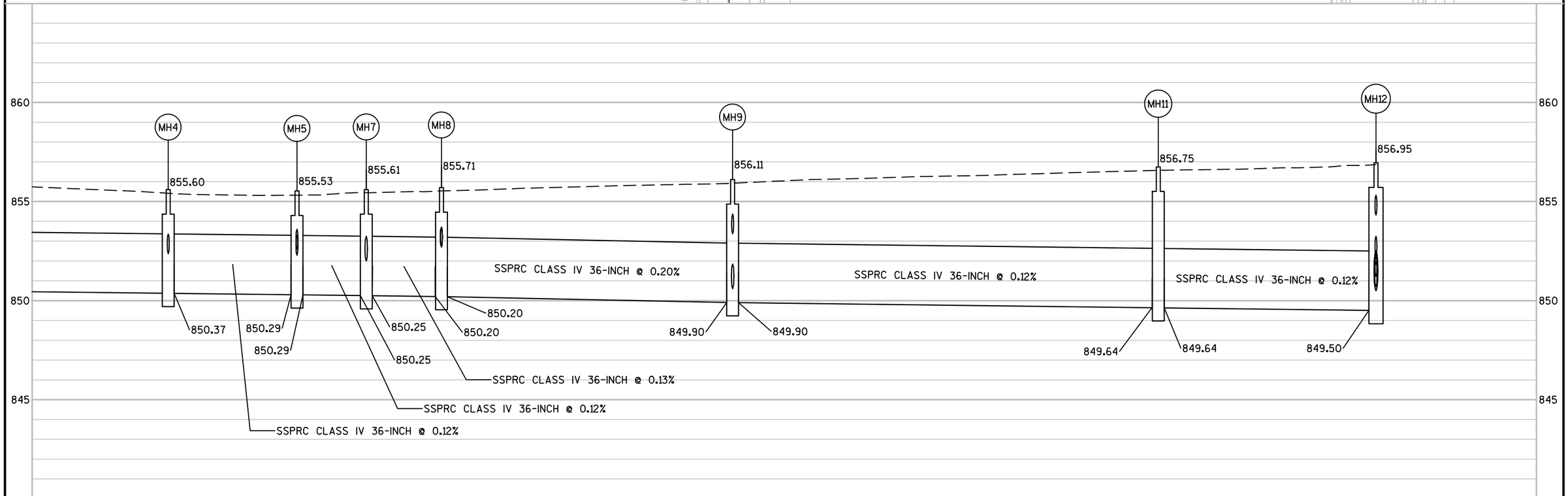
PROJECT NO: 1500-27-71	HWY: USH 10	COUNTY: MANITOWOC	PLAN DETAILS	SHEET 27	E



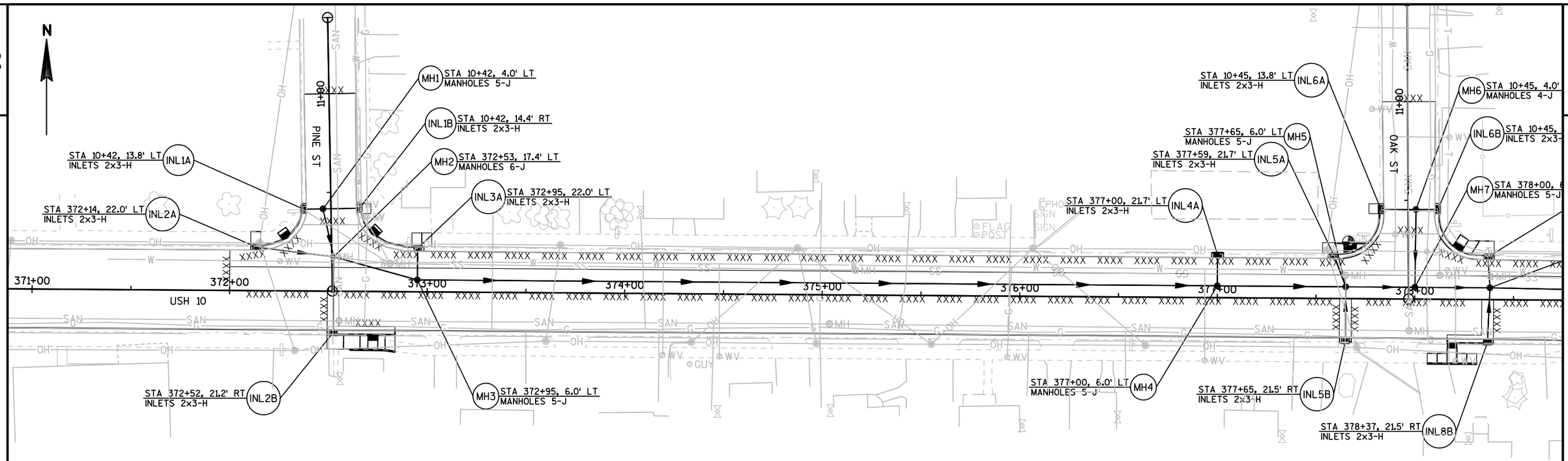


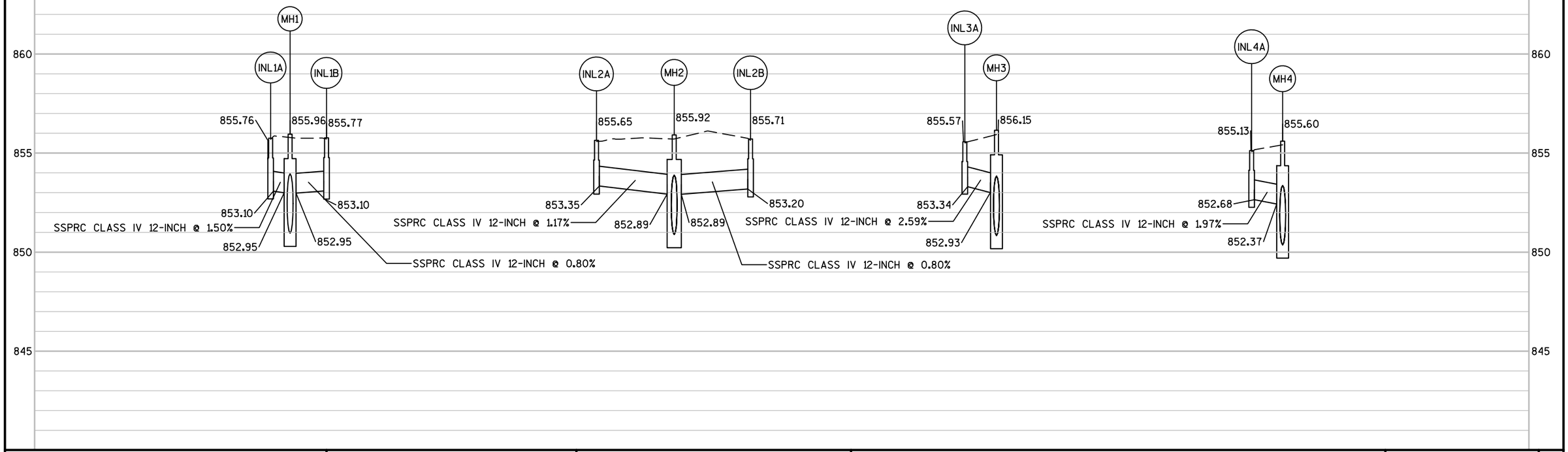
PROJECT NO: 1500-27-71	HWY: USH 10	COUNTY: MANITOWOC	STORM SEWER	SHEET 28	E



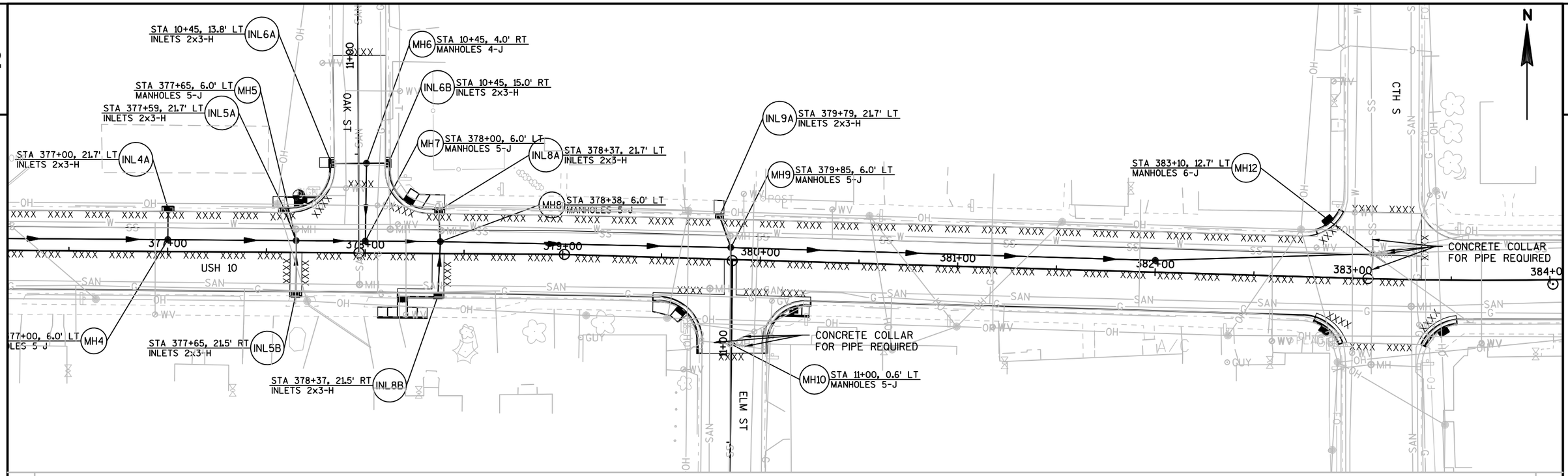


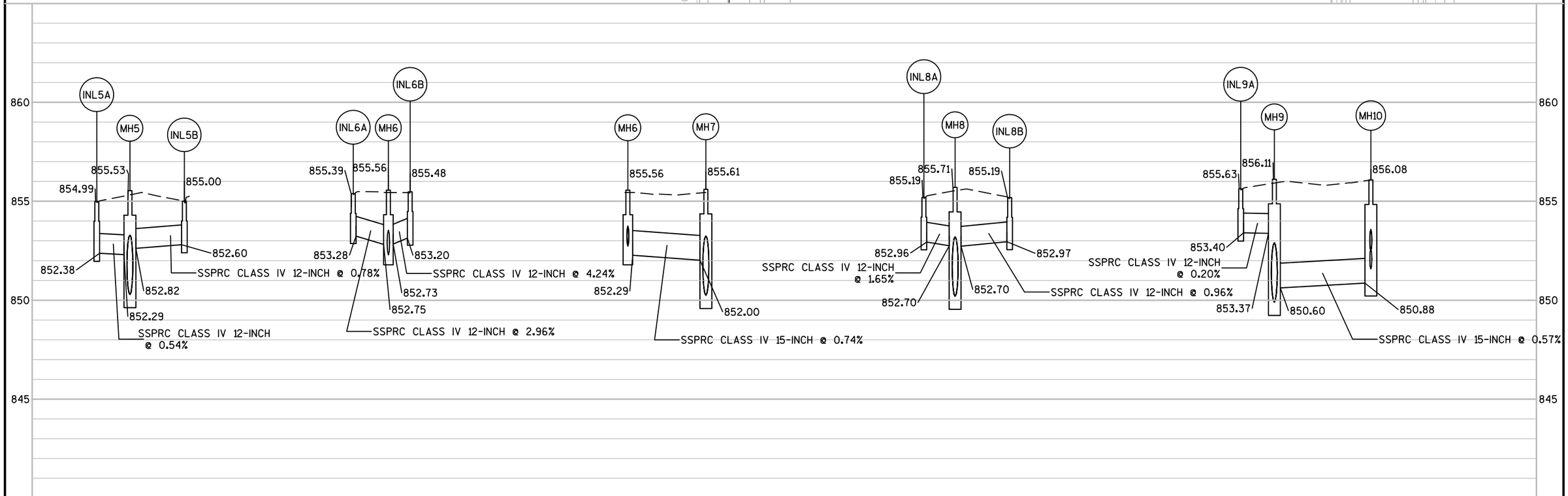
PROJECT NO: 1500-27-71	HWY: USH 10	COUNTY: MANITOWOC	STORM SEWER	SHEET 29	E





PROJECT NO: 1500-27-71	HWY: USH 10	COUNTY: MANITOWOC	STORM SEWER	SHEET 30	E





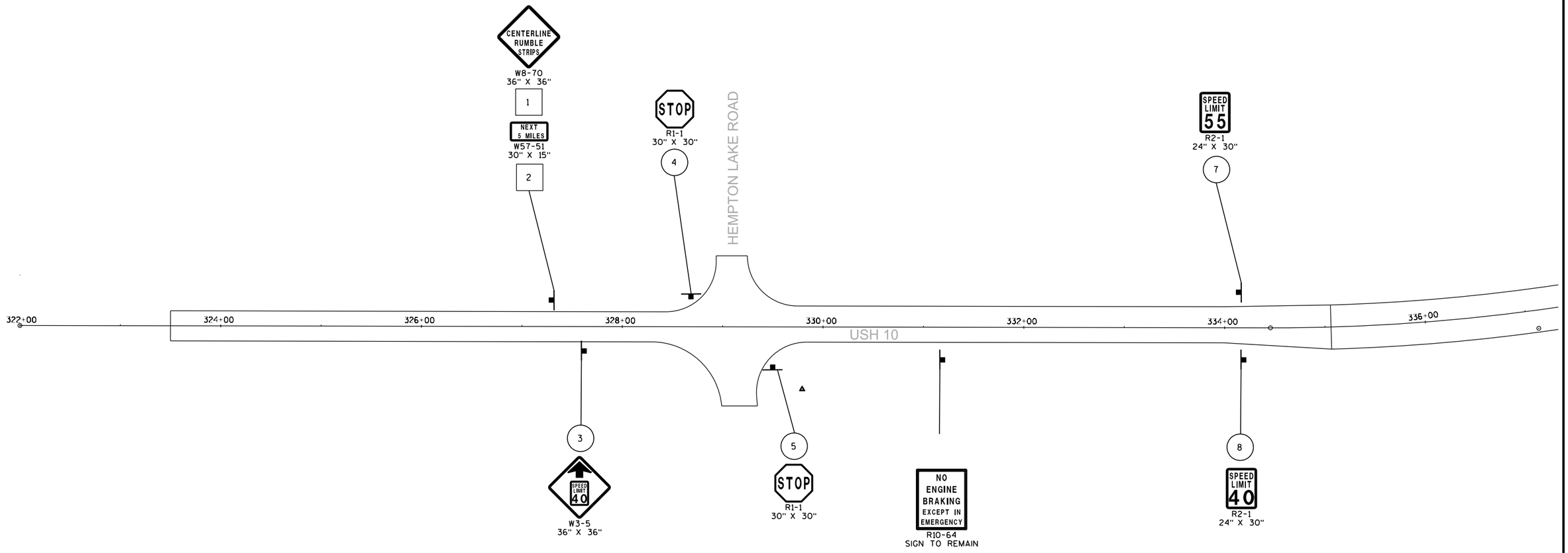
PROJECT NO: 1500-27-71	HWY: USH 10	COUNTY: MANITOWOC	STORM SEWER	SHEET 31	E

SIGNING NOTES

WHEN AN EXISTING STOP SIGN AND SUPPORT IS TO BE REMOVED AND A NEW STOP SIGN AND SUPPORT ERECTED THE WORK SHALL BE DONE CONCURRENTLY. FOR OTHER SIGNS AND SUPPORTS THAT ARE TO BE REMOVED AND NEW SIGNS AND SUPPORTS ERECTED, THE REMOVAL OF THE EXISTING SIGN/SUPPORT AND ERECTION OF THE NEW SIGN/SUPPORT SHOULD BE DONE AS CONCURRENTLY AS POSSIBLE. IN NO CASE SHALL A NEW SIGN/SUPPORT BE DOWN FOR MORE THAN 24 HOURS AND THERE SHALL NOT BE MORE THAN ONE SIGN OF THE SAME LEGEND MISSING IN A ROW.

WOOD POSTS SIZES, FOR TYPE II SIGNING, ARE ESTIMATED LENGTHS AND THE ACTUAL LENGTH WILL BE DETERMINED IN THE FIELD.

LOCATION AND NUMBER OF NO PASSING ZONE SIGNS IS APPROXIMATE. THE ACTUAL NUMBER WILL BE DETERMINED AFTER THE ROADWAY HAS BEEN SPOTTED.



SIGN-REMOVE EXISTING

SIGN-REMOVE AND REPLACE

SIGN-PLACE NEW

PROJECT NO: 1500-27-71	HWY: USH 10	COUNTY: MANITOWOC	PERMANENT SIGNING	SHEET	E

FILE NAME : N:\spo\traffic\SIGNING\Projects\1500-27-71 USH 10 Whitelaw Man CTY\PERMANANT SIGN PLAN.dgn PLOT DATE : 24-MAY-2017 11:20 PLOT BY : dotets PLOT NAME : PLOT SCALE : 100:1

WISDOT/CADDS SHEET 42

SIGNING NOTES

WHEN AN EXISTING STOP SIGN AND SUPPORT IS TO BE REMOVED AND A NEW STOP SIGN AND SUPPORT ERECTED THE WORK SHALL BE DONE CONCURRENTLY. FOR OTHER SIGNS AND SUPPORTS THAT ARE TO BE REMOVED AND NEW SIGNS AND SUPPORTS ERECTED, THE REMOVAL OF THE EXISTING SIGN/SUPPORT AND ERECTION OF THE NEW SIGN/SUPPORT SHOULD BE DONE AS CONCURRENTLY AS POSSIBLE. IN NO CASE SHALL A NEW SIGN/SUPPORT BE DOWN FOR MORE THAN 24 HOURS AND THERE SHALL NOT BE MORE THAN ONE SIGN OF THE SAME LEGEND MISSING IN A ROW.

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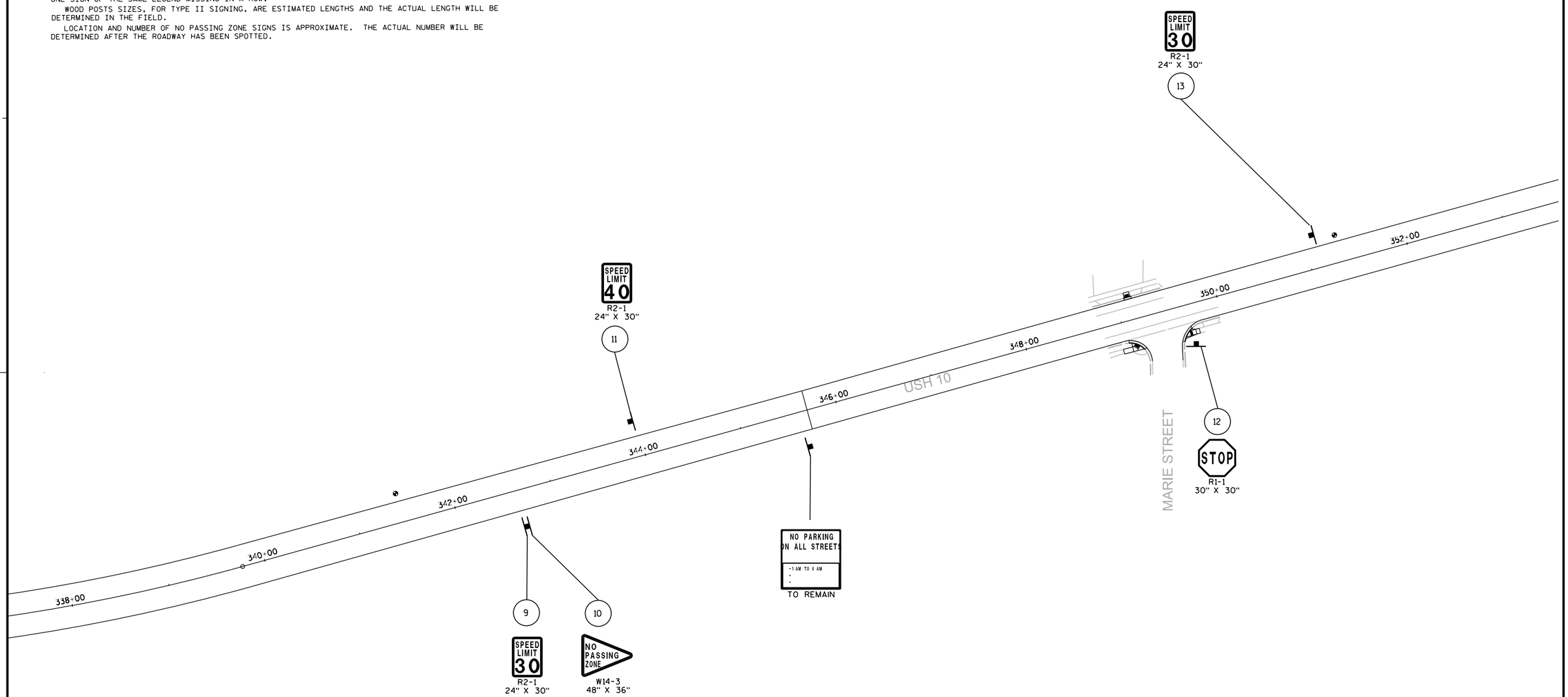

SIGN-REMOVE EXISTING

SIGN-REMOVE AND REPLACE

SIGN-PLACE NEW

PROJECT NO: 1500-27-71	HWY: USH 10	COUNTY: MANITOWOC	PERMANENT SIGNING	SHEET 33	E

SIGNING NOTES

WHEN AN EXISTING STOP SIGN AND SUPPORT IS TO BE REMOVED AND A NEW STOP SIGN AND SUPPORT ERECTED THE WORK SHALL BE DONE CONCURRENTLY. FOR OTHER SIGNS AND SUPPORTS THAT ARE TO BE REMOVED AND NEW SIGNS AND SUPPORTS ERECTED, THE REMOVAL OF THE EXISTING SIGN/SUPPORT AND ERECTION OF THE NEW SIGN/SUPPORT SHOULD BE DONE AS CONCURRENTLY AS POSSIBLE. IN NO CASE SHALL A NEW SIGN/SUPPORT BE DOWN FOR MORE THAN 24 HOURS AND THERE SHALL NOT BE MORE THAN ONE SIGN OF THE SAME LEGEND MISSING IN A ROW.

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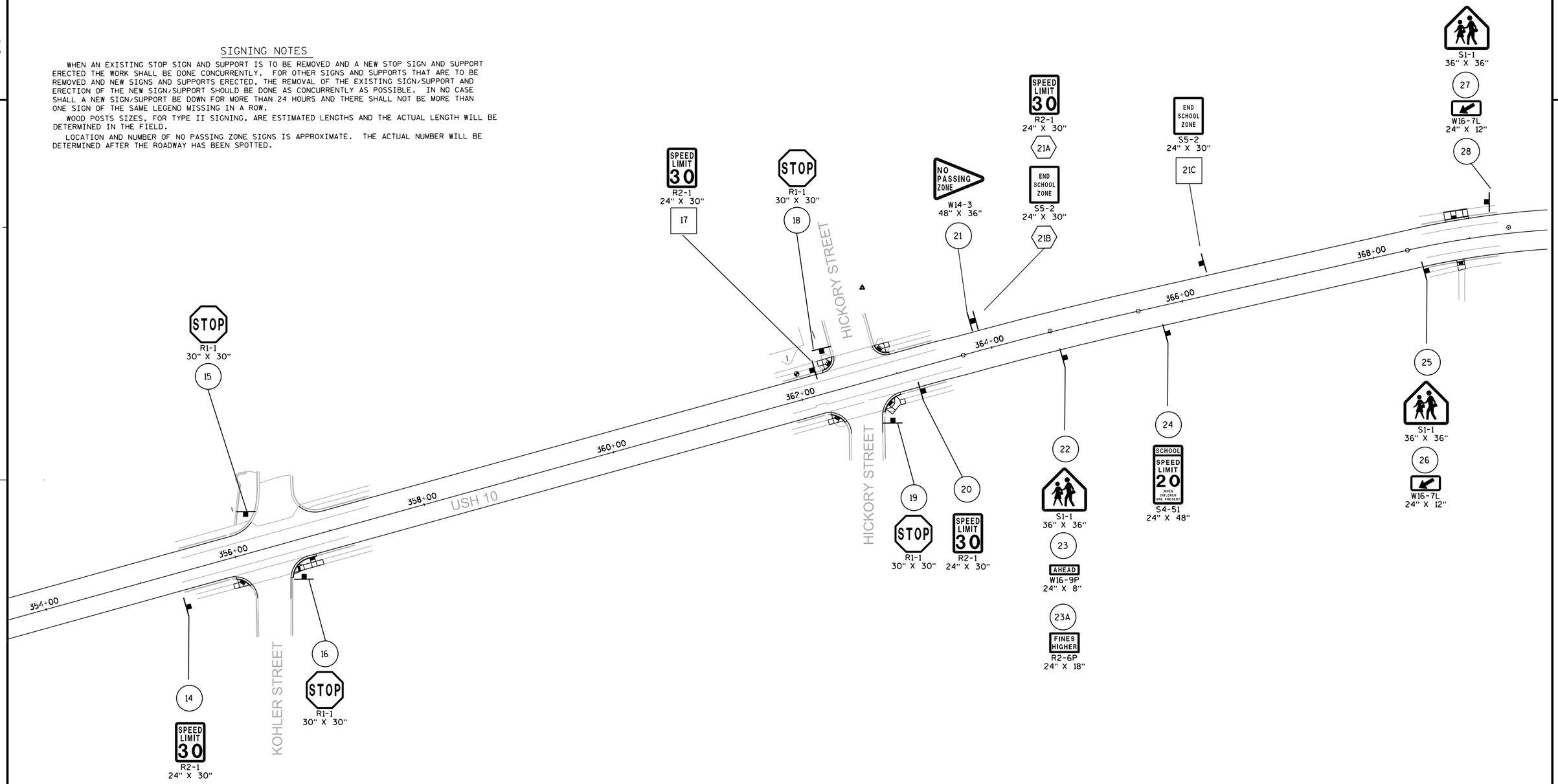

SIGN-REMOVE EXISTING

SIGN-REMOVE AND REPLACE

SIGN-PLACE NEW

PROJECT NO: 1500-27-71	HWY: USH 10	COUNTY: MANITOWOC	PERMANENT SIGNING	SHEET 34	E

SIGNING NOTES

WHEN AN EXISTING STOP SIGN AND SUPPORT IS TO BE REMOVED AND A NEW STOP SIGN AND SUPPORT ERECTED THE WORK SHALL BE DONE CONCURRENTLY. FOR OTHER SIGNS AND SUPPORTS THAT ARE TO BE REMOVED AND NEW SIGNS AND SUPPORTS ERECTED, THE REMOVAL OF THE EXISTING SIGN/SUPPORT AND ERECTION OF THE NEW SIGN/SUPPORT SHOULD BE DONE AS CONCURRENTLY AS POSSIBLE. IN NO CASE SHALL A NEW SIGN/SUPPORT BE DOWN FOR MORE THAN 24 HOURS AND THERE SHALL NOT BE MORE THAN ONE SIGN OF THE SAME LEGEND MISSING IN A ROW.

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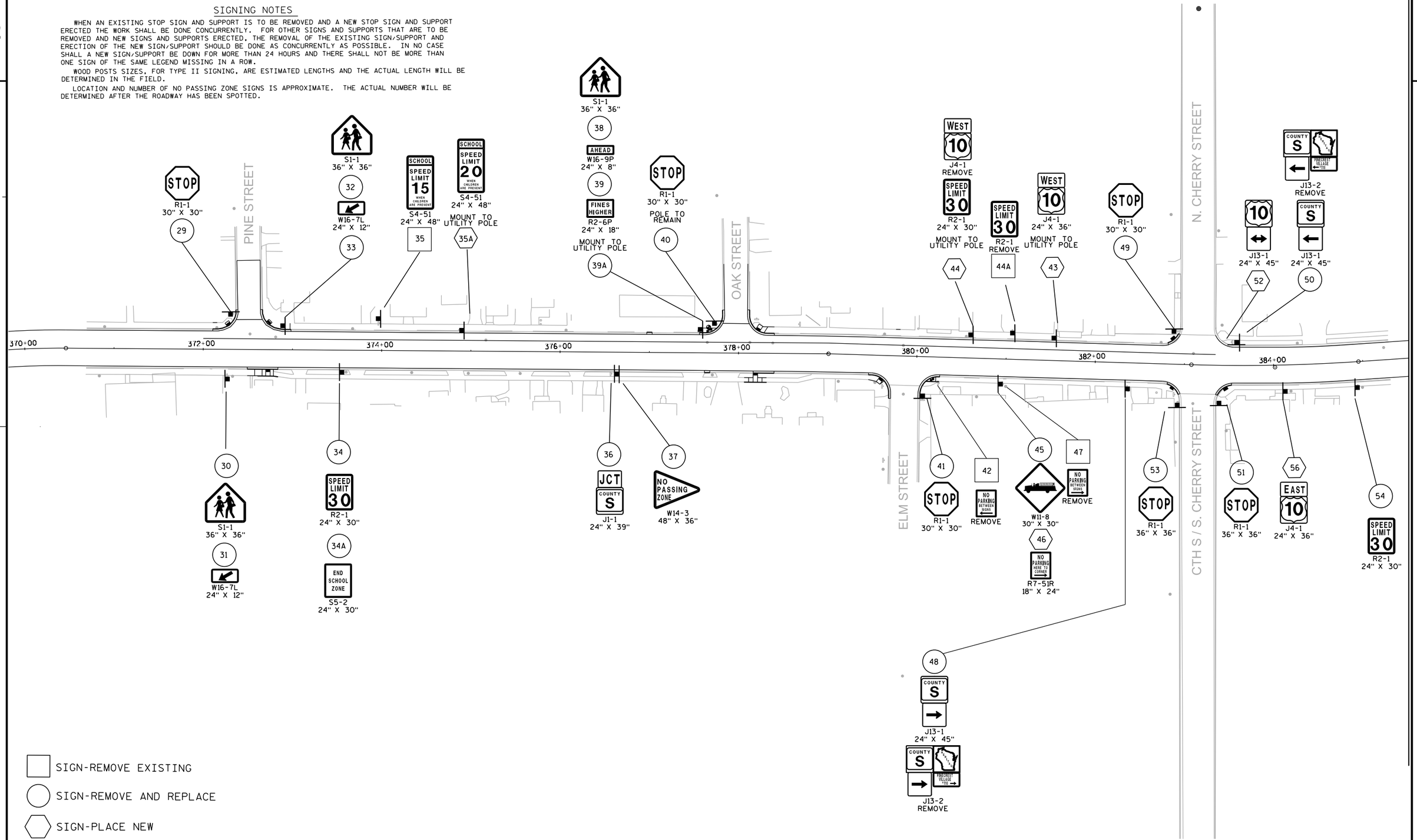

SIGN-REMOVE EXISTING

SIGN-REMOVE AND REPLACE

SIGN-PLACE NEW

PROJECT NO: 1500-27-71	HWY: USH 10	COUNTY: MANITOWOC	PERMANENT SIGNING	SHEET 35	E

FILE NAME : N:\spo\traffic\SIGNING\Projects\1500-27-71 USH 10 Whitelaw Man CTY\PERMANANT SIGN PLAN.dgn PLOT DATE : 24-MAY-2017 11:20 PLOT BY : dotets PLOT NAME : PLOT SCALE : 100:1

WISDOT/CADDS SHEET 42

SIGNING NOTES

WHEN AN EXISTING STOP SIGN AND SUPPORT IS TO BE REMOVED AND A NEW STOP SIGN AND SUPPORT ERECTED THE WORK SHALL BE DONE CONCURRENTLY. FOR OTHER SIGNS AND SUPPORTS THAT ARE TO BE REMOVED AND NEW SIGNS AND SUPPORTS ERECTED, THE REMOVAL OF THE EXISTING SIGN/SUPPORT AND ERECTION OF THE NEW SIGN/SUPPORT SHOULD BE DONE AS CONCURRENTLY AS POSSIBLE. IN NO CASE SHALL A NEW SIGN/SUPPORT BE DOWN FOR MORE THAN 24 HOURS AND THERE SHALL NOT BE MORE THAN ONE SIGN OF THE SAME LEGEND MISSING IN A ROW.

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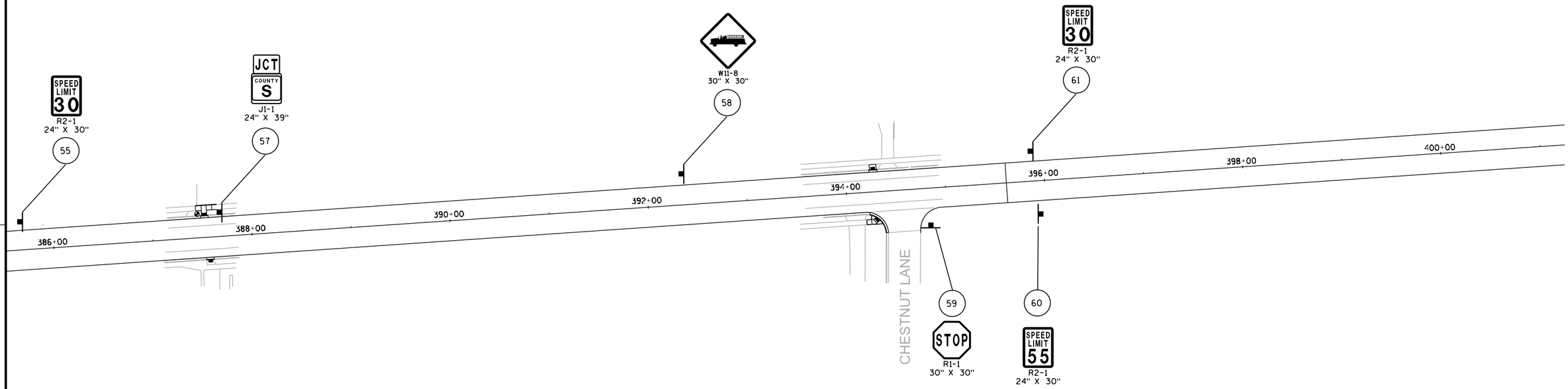


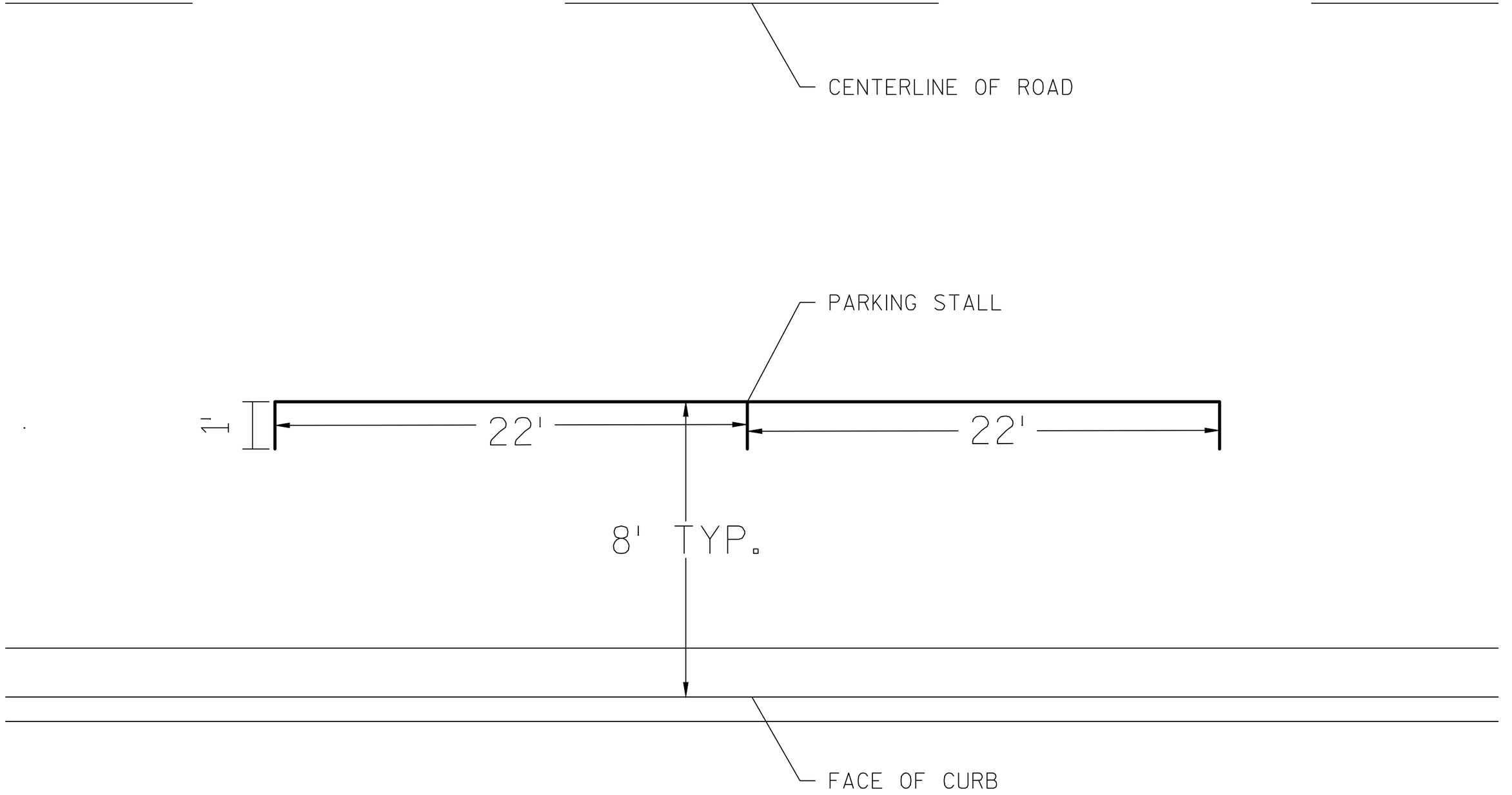
SIGN-REMOVE EXISTING

SIGN-REMOVE AND REPLACE

SIGN-PLACE NEW

PROJECT NO: 1500-27-71	HWY: USH 10	COUNTY: MANITOWOC	PERMANENT SIGNING	SHEET 36	E

2



PROJECT NO:1500-27-71	HWY: USH 10	COUNTY: MANITOWOC	CONSTRUCTION DETAIL-PARKING STALL	SHEET 37	E

2

2

N

323+00

324+00

325+00

326+00

327+00

328+00

329+00

330+00

331+00

332+00

333+00

PAVEMENT MARKING
GROOVED WET
REFLECTIVE EPOXY
8-INCH

PAVEMENT MARKING
GROOVED WET
REFLECTIVE EPOXY
4-INCH
WHITE

PAVEMENT MARKING
GROOVED WET
REFLECTIVE EPOXY
4-INCH
WHITE

HEMPTON LAKE RD

NOTES:

1) PARKING STALL MARKING TO BE PLACED:
- A MINIMUM OF 4' FROM DRIVEWAYS
- A MINIMUM OF 20' FROM INTERSECTION CURB RADII
- A MINIMUM OF 15' FROM CROSSWALK
- A MINIMUM OF 10' FROM FIRE HYDRANT

PROJECT NO: 1500-27-71	HWY: USH 10	COUNTY: MANITOWOC	PAVEMENT MARKING	SHEET	E

FILE NAME : N:\PDS\C3D\15002700\SHEETSPLAN\024501_PM2017.DWG
LAYOUT NAME - 024501_PM

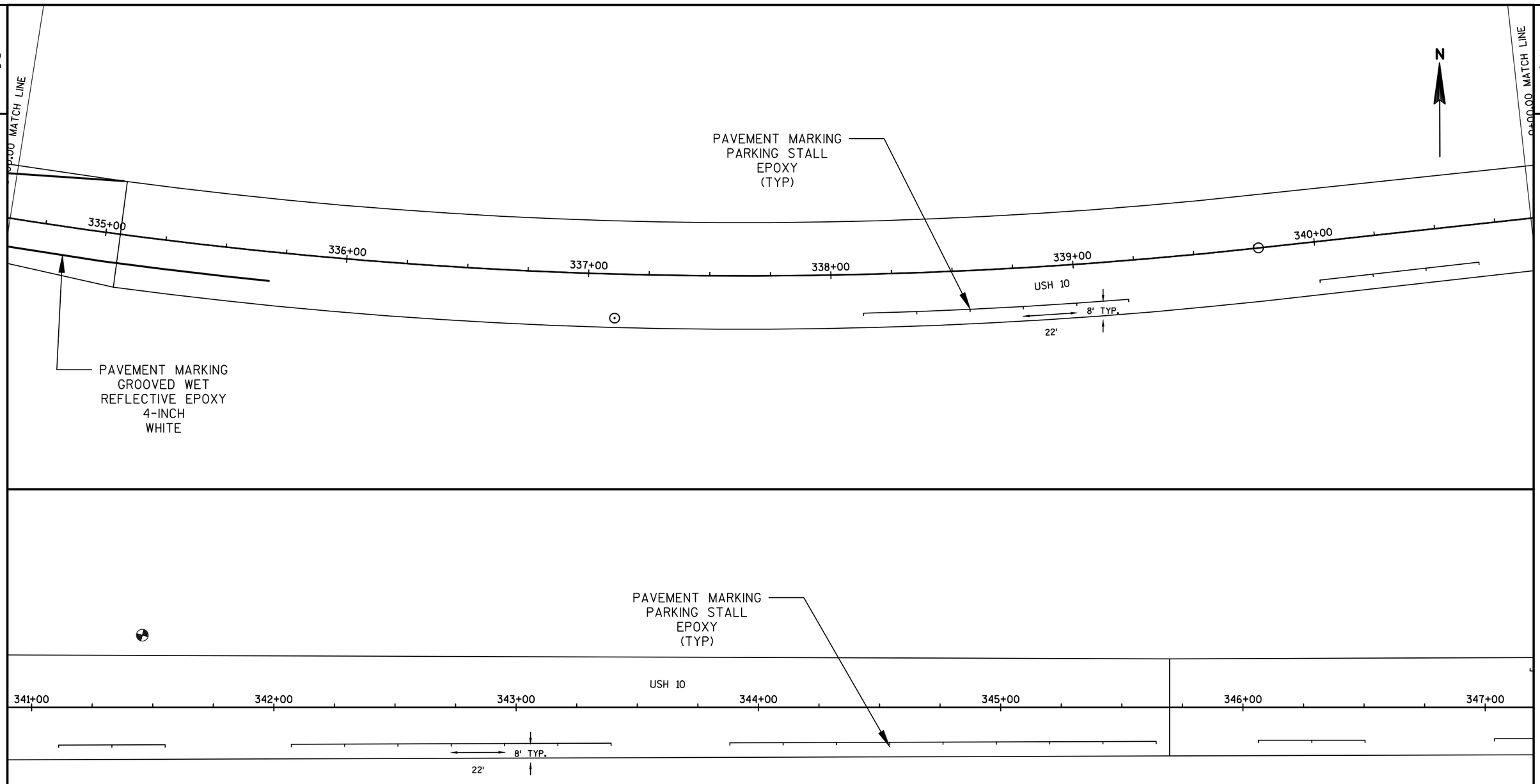
PLOT DATE : 5/30/2017 9:49 AM PLOT BY : WALCZYK, BENJAMIN J PLOT NAME : PLOT SCALE : **********

WISDOT/CADDS SHEET 44

2

0+00.00 MATCH LINE

2



NOTES:

1) PARKING STALL MARKING TO BE PLACED:
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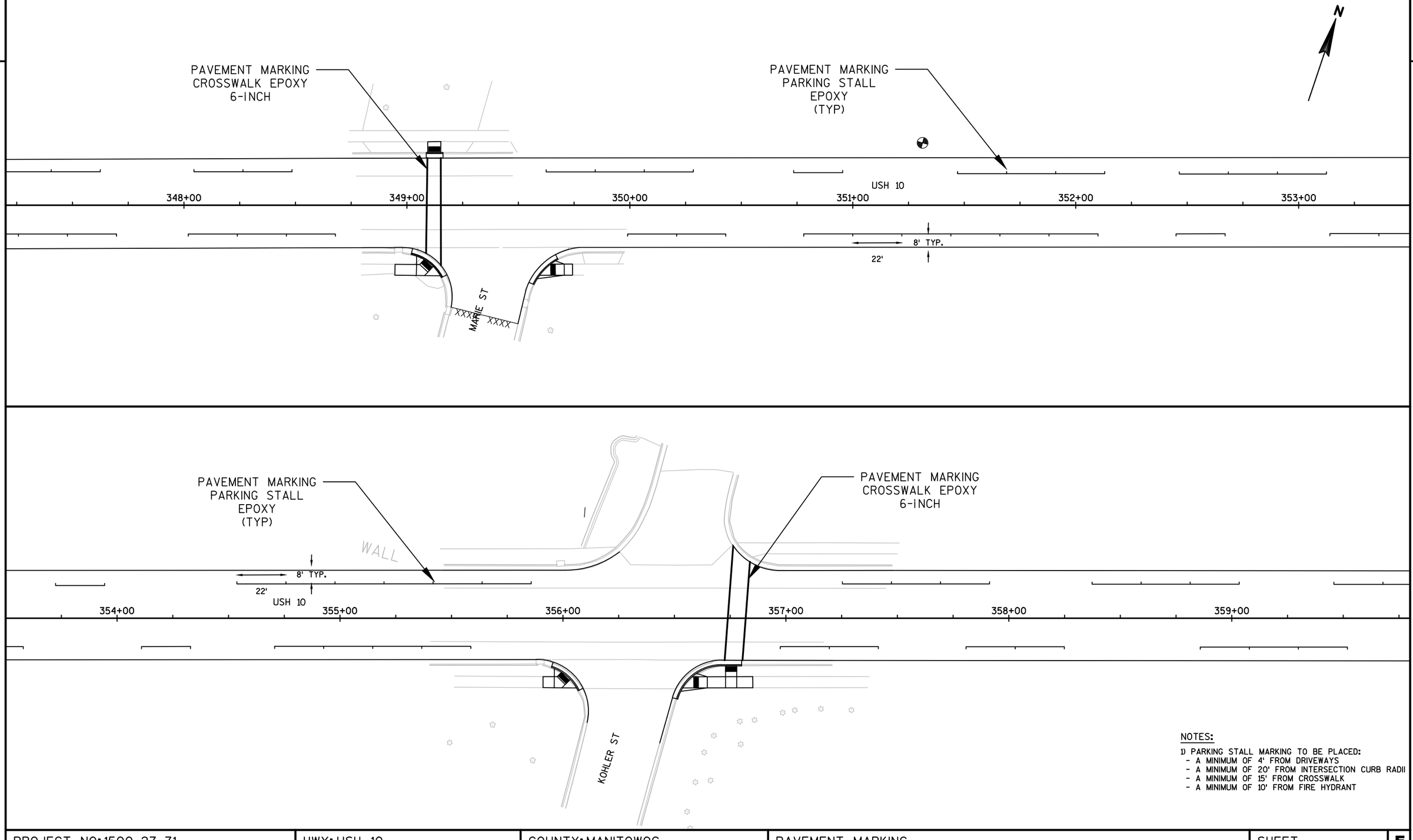
- A MINIMUM OF 20' FROM INTERSECTION CURB RADII
- A MINIMUM OF 15' FROM CROSSWALK
- A MINIMUM OF 10' FROM FIRE HYDRANT

PROJECT NO: 1500-27-71	HWY: USH 10	COUNTY: MANITOWOC	PAVEMENT MARKING	SHEET 39	E

2



NOTES:

1) PARKING STALL MARKING TO BE PLACED:
- A MINIMUM OF 4' FROM DRIVEWAYS
- A MINIMUM OF 20' FROM INTERSECTION CURB RADII
- A MINIMUM OF 15' FROM CROSSWALK
- A MINIMUM OF 10' FROM FIRE HYDRANT

PROJECT NO: 1500-27-71	HWY: USH 10	COUNTY: MANITOWOC	PAVEMENT MARKING	SHEET 40	E

2

2

PAVEMENT MARKING
CROSSWALK EPOXY
6-INCH

PAVEMENT MARKING
PARKING STALL
EPOXY
(TYP)

8' TYP.

22'

USH 10

360+00 361+00 362+00 363+00 364+00 365+00 366+00

HICKORY ST

PAVEMENT MARKING
CROSSWALK EPOXY
6-INCH

PAVEMENT MARKING
PARKING STALL
EPOXY
(TYP)

8' TYP.

22'

USH 10

367+00 368+00 369+00 370+00 371+00 372+00

PAVEMENT MARKING
CROSSWALK EPOXY
6-INCH

0+00.00 MATCH LINE

NOTES:

1) PARKING STALL MARKING TO BE PLACED:
- A MINIMUM OF 4' FROM DRIVEWAYS
- A MINIMUM OF 20' FROM INTERSECTION CURB RADII
- A MINIMUM OF 15' FROM CROSSWALK
- A MINIMUM OF 10' FROM FIRE HYDRANT

PROJECT NO: 1500-27-71	HWY: USH 10	COUNTY: MANITOWOC	PAVEMENT MARKING	SHEET 41	E

FILE NAME : N:\PDS\C3D\15002700\SHEETSPLAN\024501_PM2017.DWG
LAYOUT NAME - 024504_PM

PLOT DATE : 5/30/2017 9:49 AM PLOT BY : WALCZYK, BENJAMIN J PLOT NAME : PLOT SCALE : **********

WISDOT/CADDS SHEET 44

2

PINE ST

PAVEMENT MARKING
PARKING STALL
EPOXY
(TYP)

8' TYP.

22'

373+00 374+00 375+00 USH 10 376+00 377+00 378+00

OAK ST

PAVEMENT MARKING
CROSSWALK EPOXY
6-INCH
(TYP)

PAVEMENT MARKING
CROSSWALK EPOXY
6-INCH

2

PAVEMENT MARKING
PARKING STALL
EPOXY
(TYP)

379+00 380+00 USH 10 381+00 382+00 383+00 384+00 385

N CHERRY ST

PAVEMENT MARKING
CROSSWALK EPOXY
6-INCH

PAVEMENT MARKING
CROSSWALK EPOXY
6-INCH

ELM ST

PAVEMENT MARKING
CROSSWALK EPOXY
6-INCH
(TYP)

S CHERRY ST

NOTES:

1) PARKING STALL MARKING TO BE PLACED:
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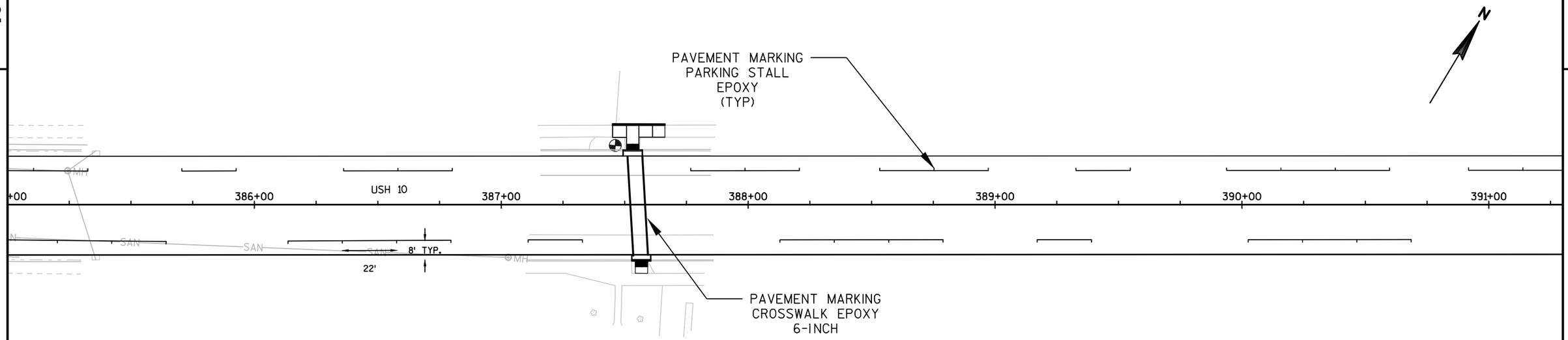
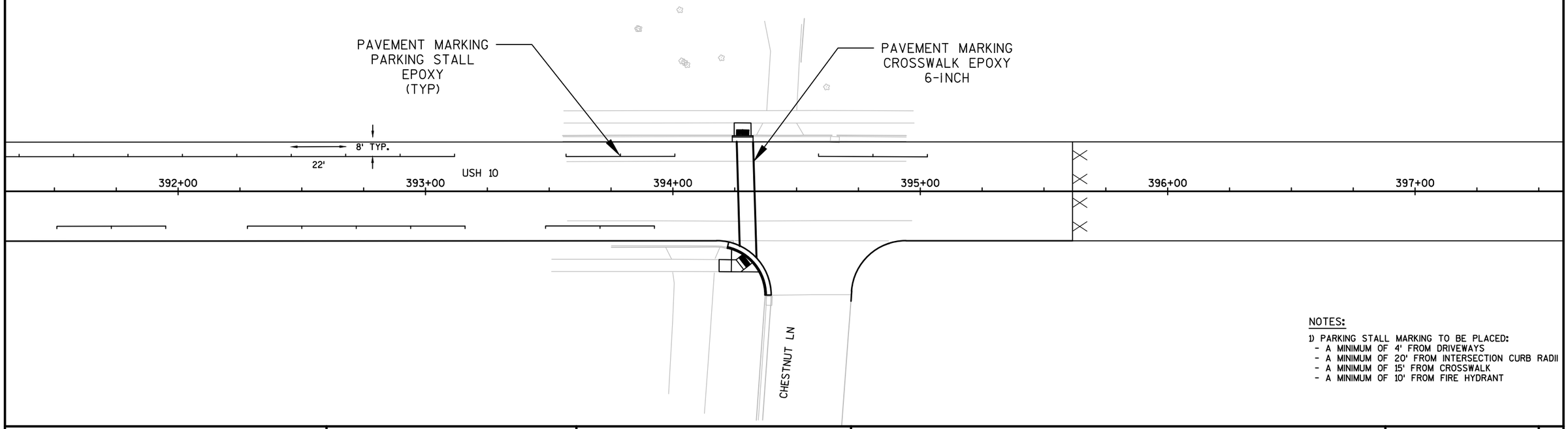
- A MINIMUM OF 20' FROM INTERSECTION CURB RADII
- A MINIMUM OF 15' FROM CROSSWALK
- A MINIMUM OF 10' FROM FIRE HYDRANT

PROJECT NO: 1500-27-71	HWY: USH 10	COUNTY: MANITOWOC	PAVEMENT MARKING	SHEET 42	E

2





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- A MINIMUM OF 10' FROM FIRE HYDRANT

PROJECT NO: 1500-27-71	HWY: USH 10	COUNTY: MANITOWOC	PAVEMENT MARKING	SHEET 43	E

2

N

N

HEMPTON LAKE ROAD

USH 10 - W. MENASHA AVENUE

HICKORY STREET

PINE STREET

OAK STREET

N. CHERRY STREET

END PROJECT
STA 395+61.49

1

2

3

4

5

6

7

8

9

HOOVER STREET

MARIE STREET

KOHLER STREET

HICKORY STREET

ELM STREET

S. CHERRY STREET

CHESTNUT LANE

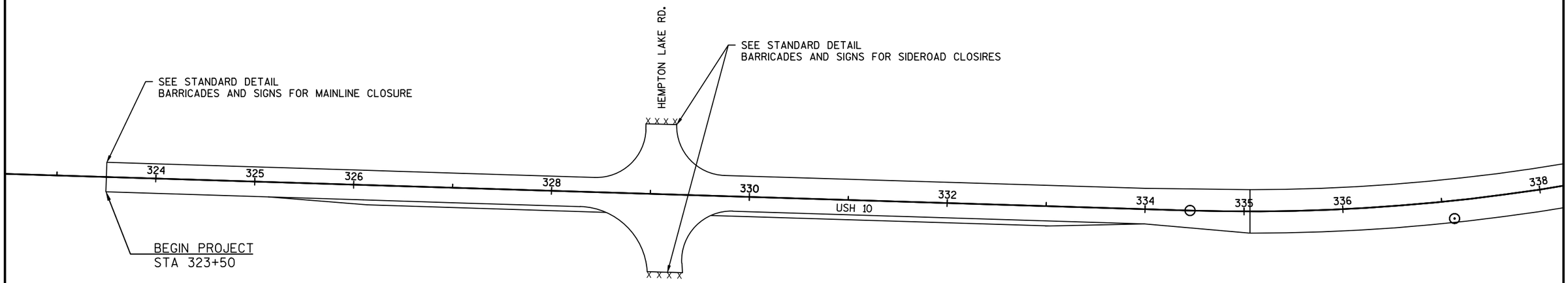
EGIN PROJECT
TA 323+50

Note:
PEDESTRIAN TRAFFIC CONTROL PER INTERSECTION TO BE DONE IN STAGES AS SHOWN ABOVE.

PROJECT NO: 1500-27-71	HWY: USH 10	COUNTY: MANITOWOC	TRAFFIC CONTROL	SHEET 44	E

2

N



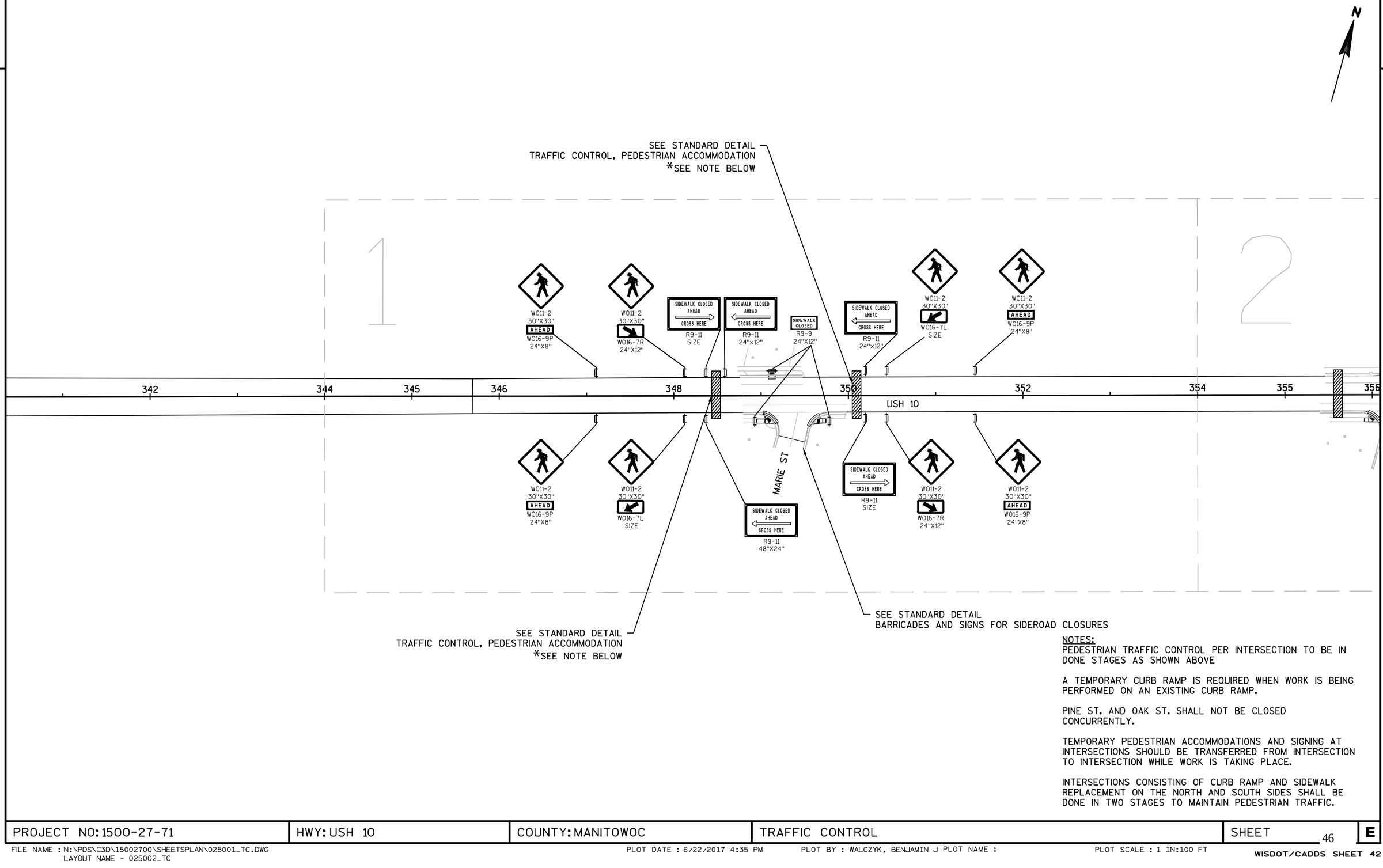
NOTES:
PEDESTRIAN TRAFFIC CONTROL PER INTERSECTION TO BE IN DONE STAGES AS SHOWN ABOVE

A TEMPORARY CURB RAMP IS REQUIRED WHEN WORK IS BEING PERFORMED ON AN EXISTING CURB RAMP.

PINE ST. AND OAK ST. SHALL NOT BE CLOSED CONCURRENTLY.

TEMPORARY PEDESTRIAN ACCOMMODATIONS AND SIGNING AT INTERSECTIONS SHOULD BE TRANSFERRED FROM INTERSECTION TO INTERSECTION WHILE WORK IS TAKING PLACE.

INTERSECTIONS CONSISTING OF CURB RAMP AND SIDEWALK REPLACEMENT ON THE NORTH AND SOUTH SIDES SHALL BE DONE IN TWO STAGES TO MAINTAIN PEDESTRIAN TRAFFIC.



NOTES:

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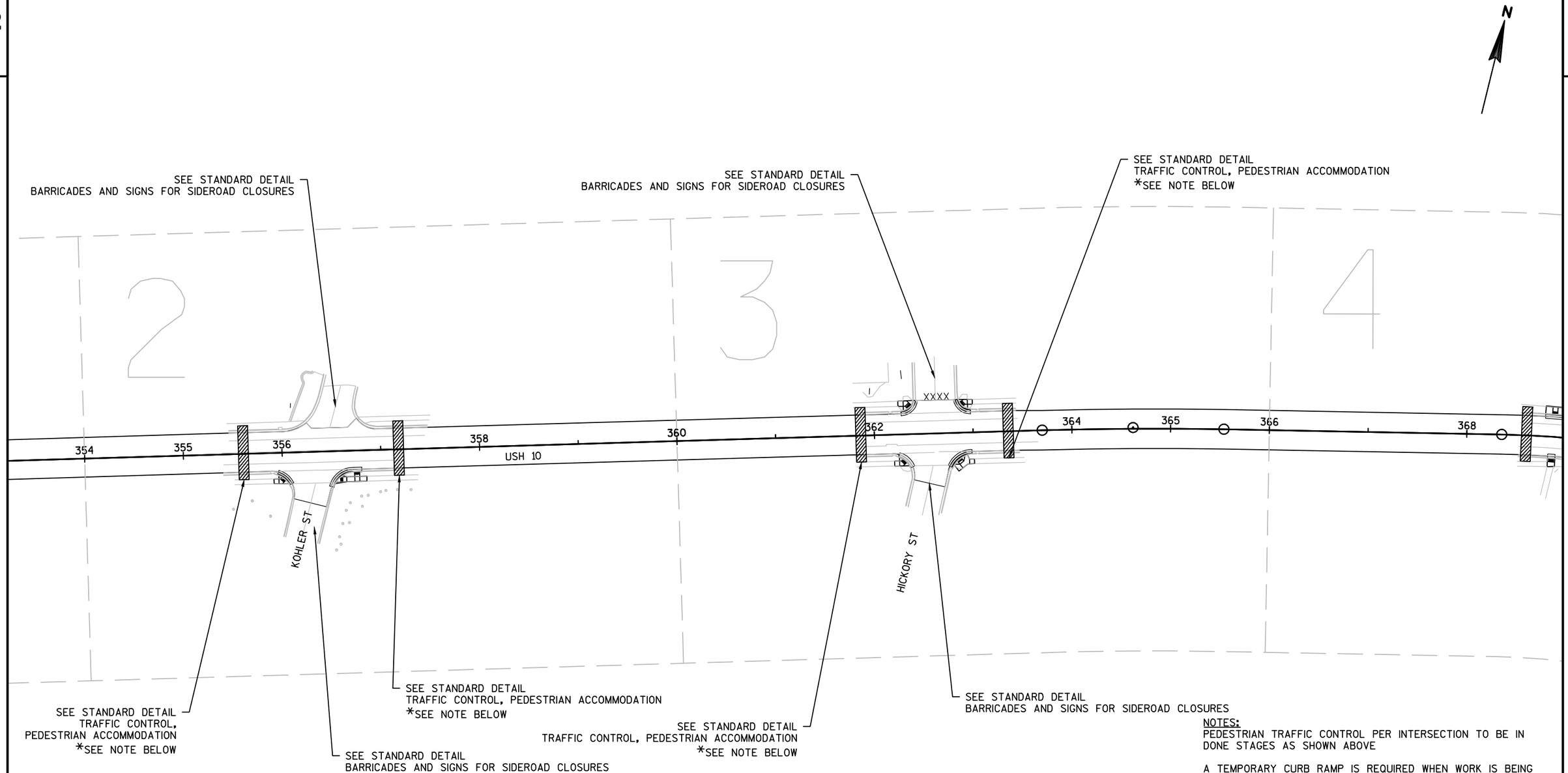
PROJECT NO:1500-27-71	HWY: USH 10	COUNTY: MANITOWOC	TRAFFIC CONTROL	SHEET 46	E

2



NOTES:

PEDESTRIAN TRAFFIC CONTROL PER INTERSECTION TO BE IN DONE STAGES AS SHOWN ABOVE

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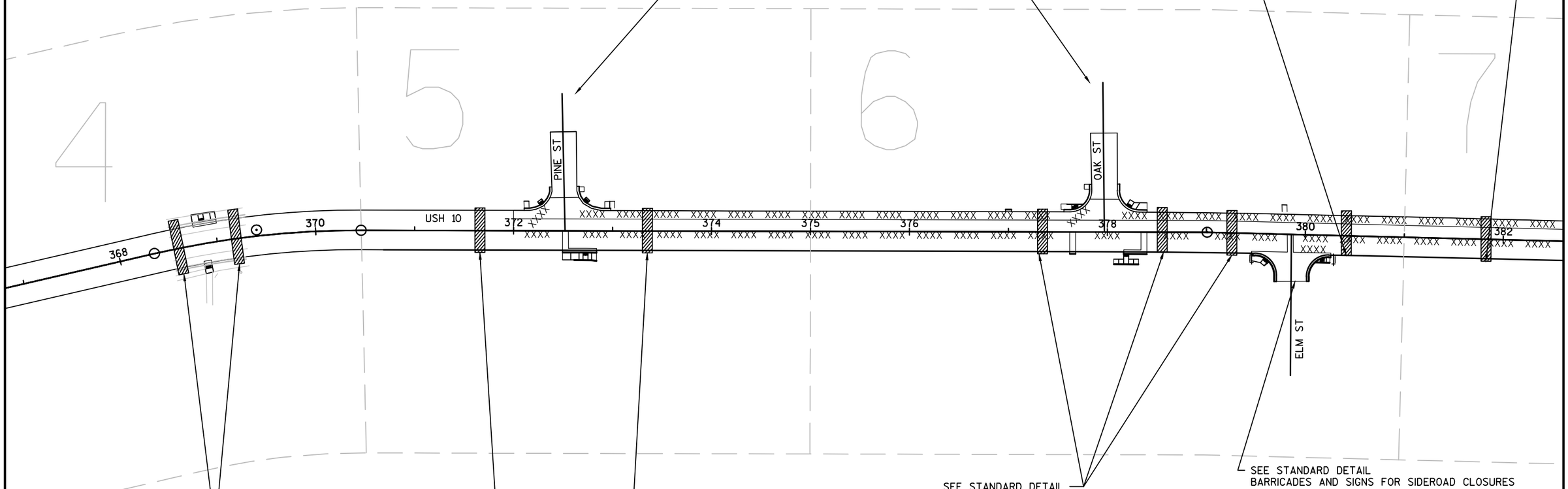
INTERSECTIONS CONSISTING OF CURB RAMP AND SIDEWALK REPLACEMENT ON THE NORTH AND SOUTH SIDES SHALL BE DONE IN TWO STAGES TO MAINTAIN PEDESTRIAN TRAFFIC.

2

N

SEE STANDARD DETAIL
BARRICADES AND SIGNS FOR SIDEROAD CLOSURES

SEE STANDARD DETAIL
TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
*SEE NOTE BELOW



SEE STANDARD DETAIL
TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
*SEE NOTE BELOW

SEE STANDARD DETAIL
TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
*SEE NOTE BELOW

SEE STANDARD DETAIL
TRAFFIC CONTROL,
PEDESTRIAN
ACCOMMODATION
*SEE NOTE BELOW

SEE STANDARD DETAIL
BARRICADES AND SIGNS FOR SIDEROAD CLOSURES

NOTES:
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PROJECT NO: 1500-27-71	HWY: USH 10	COUNTY: MANITOWOC	TRAFFIC CONTROL	SHEET 48	E

2

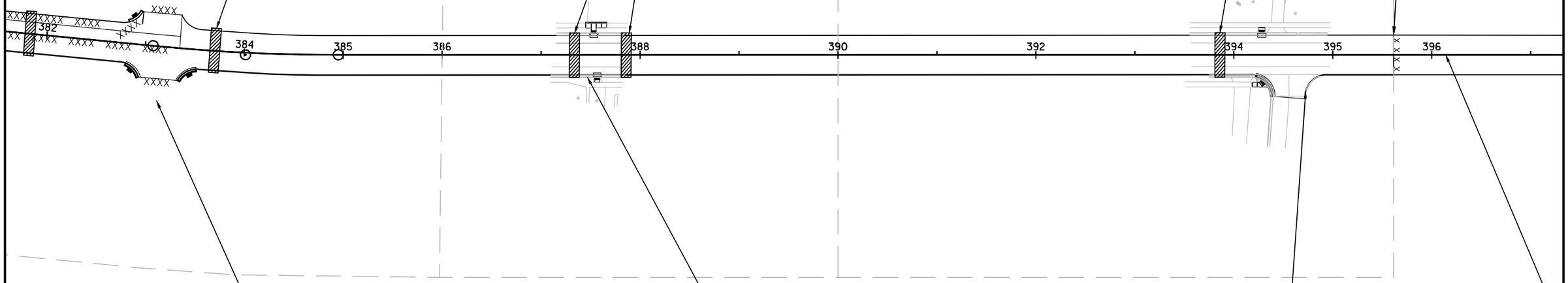
N

SEE STANDARD DETAIL
TRAFFIC CONTROL,
PEDESTRIAN ACCOMMODATION
*SEE NOTE BELOW

SEE STANDARD DETAIL
TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
*SEE NOTE BELOW

SEE STANDARD DETAIL
TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
*SEE NOTE BELOW

END PROJECT
STA 395+61.49



SEE STANDARD DETAIL
BARRICADES AND SIGNS FOR SIDEROAD CLOSURES

SEE STANDARD DETAIL
BARRICADES AND SIGNS FOR SIDEROAD CLOSURES

SEE STANDARD DETAIL
BARRICADES AND SIGNS FOR SIDEROAD CLOSURES

SEE STANDARD DETAIL
BARRICADES AND SIGNS FOR MAINLINE CLOSURE

NOTES:

PEDESTRIAN TRAFFIC CONTROL PER INTERSECTION TO BE IN DONE STAGES AS SHOWN ABOVE

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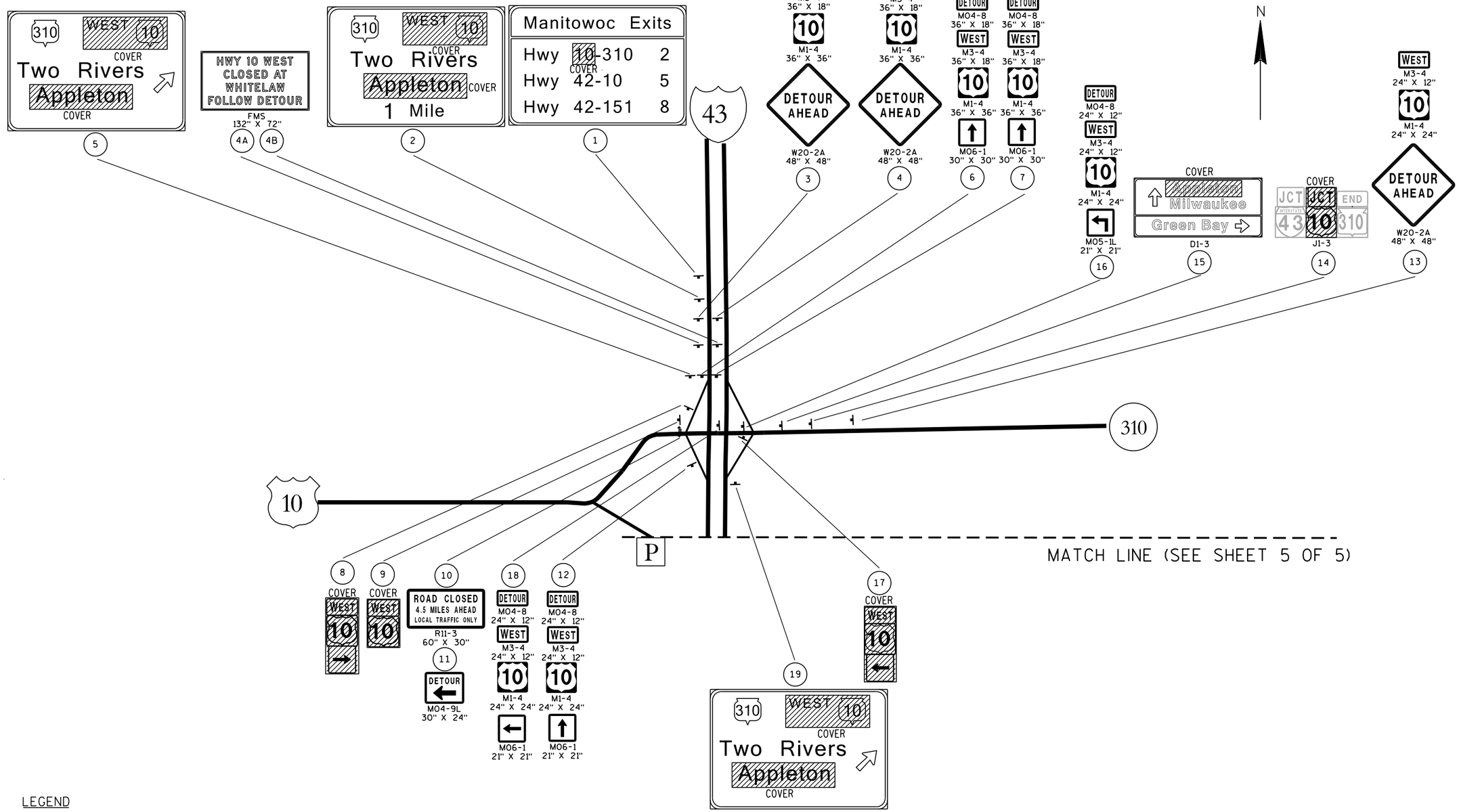
PROJECT NO:1500-27-71	HWY: USH 10	COUNTY: MANITOWOC	TRAFFIC CONTROL	SHEET 49	E



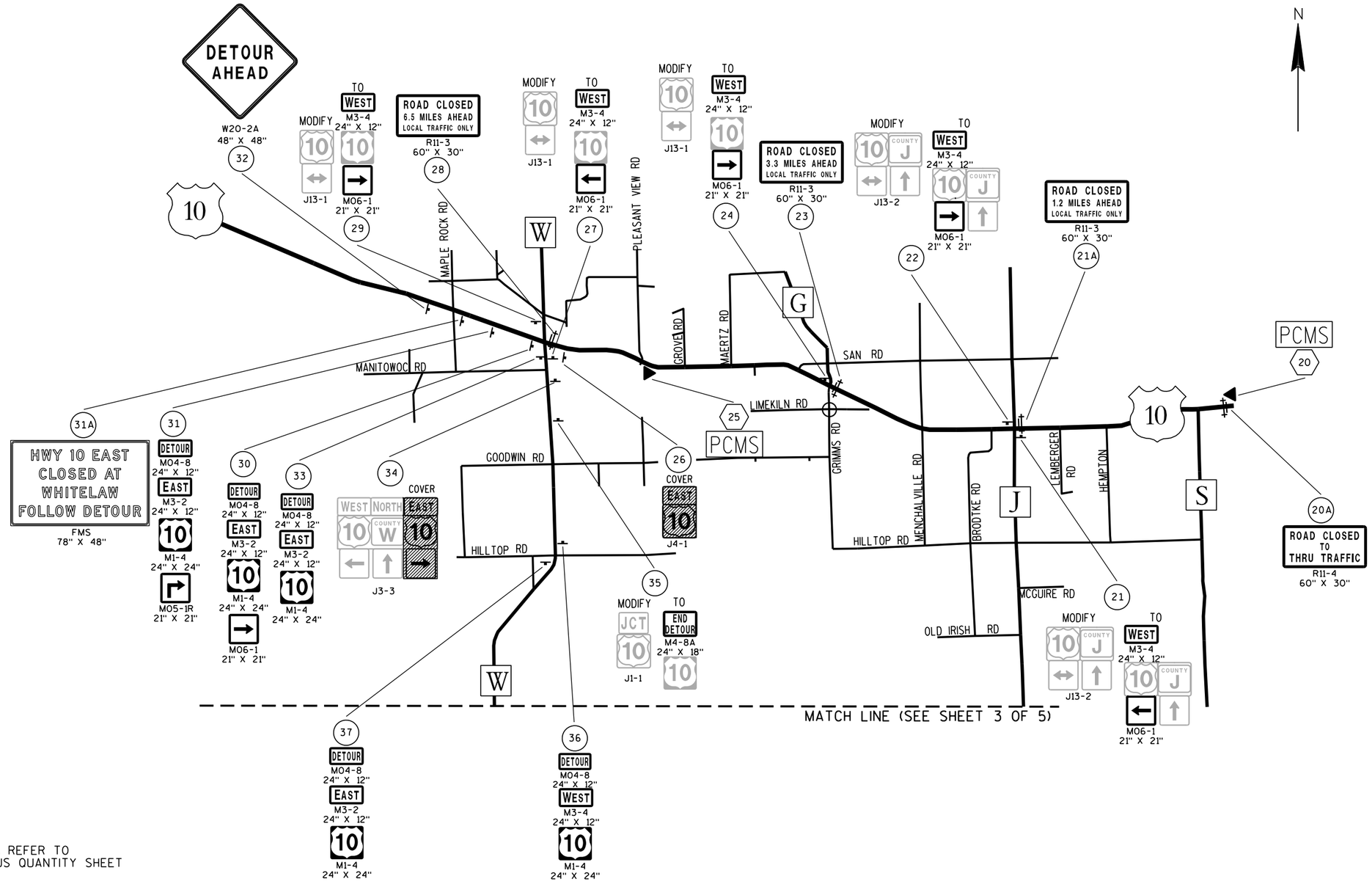
LEGEND

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

SHEET 1 OF 5

PLAN SHEET PRODUCED
BY WisDOT-NE REGION

PROJECT NO: 1500-27-71	HWY: USH 10	COUNTY: MANITOWOC	DETOUR SIGNING PLAN	SHEET 50	E



LEGEND

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

SHEET 2 OF 5

PLAN SHEET PRODUCED BY WisDOT-NE REGION

PROJECT NO: 1500-27-71	HWY: USH 10	COUNTY: MANITOWOC	DETOUR SIGNING PLAN	SHEET 51	E

FILE NAME : N:\spo\traffic\A Work Zone\Detours\Manitowoc County\USH 10\Reedsville - 43\027002_dt.dgn PLOT DATE : 06-MAR-2017 15:07 PLOT BY : dotj1f PLOT NAME : PLOT SCALE : 200:1

WISDOT/CADDS SHEET 42

2

N

MATCH LINE (SEE SHEET 2 OF 5)

KEEP ALL DETOUR SIGNING A MINIMUM
OF 100 FT FROM THE CENTER OF
THE RAILROAD MEASURED PERPENDICULARLY

KEEP ALL DETOUR SIGNING A MINIMUM
OF 100 FT FROM THE CENTER OF
THE RAILROAD MEASURED PERPENDICULARLY

MARSH RD

DUCHOW RD

W QUARRY RD

QUARRY RD

CISLER RD

UPPER FALLS RD

MADSON RD

JJ

J

W

S

A

151

38 — DETOUR M04-8 24" X 12" / WEST M3-4 24" X 12" / 10 M1-4 24" X 24"

39 — DETOUR M04-8 24" X 12" / EAST M3-2 24" X 12" / 10 M1-4 24" X 24"

41 — DETOUR M04-8 24" X 12" / EAST M3-2 24" X 12" / 10 M1-4 24" X 24"

42 — DETOUR M04-8 24" X 12" / EAST M3-2 24" X 12" / 10 M1-4 24" X 24" / M05-1L 21" X 21"

43 — DETOUR M04-8 24" X 12" / WEST M3-4 24" X 12" / 10 M1-4 24" X 24"

47 — DETOUR M04-8 24" X 12" / WEST M3-4 24" X 12" / 10 M1-4 24" X 24" / M06-1 21" X 21"

40 — DETOUR M04-8 24" X 12" / WEST M3-4 24" X 12" / 10 M1-4 24" X 24"

52 — DETOUR M04-8 24" X 12" / WEST M3-4 24" X 12" / 10 M1-4 24" X 24"

53 — DETOUR M04-8 24" X 12" / EAST M3-2 24" X 12" / 10 M1-4 24" X 24"

54 — DETOUR M04-8 24" X 12" / WEST M3-4 24" X 12" / 10 M1-4 24" X 24"

55 — DETOUR M04-8 24" X 12" / EAST M3-2 24" X 12" / 10 M1-4 24" X 24"

45 — EAST M3-2 24" X 12" / 10 M1-4 24" X 24" / DETOUR AHEAD W20-2A 48" X 48"

46 — DETOUR M04-8 24" X 12" / EAST M3-2 24" X 12" / 10 M1-4 24" X 24" / M06-1 21" X 21"

44 — DETOUR M04-8 24" X 12" / EAST M3-2 24" X 12" / 10 M1-4 24" X 24" / M06-1 21" X 21"

48 — DETOUR M04-8 24" X 12" / EAST M3-2 24" X 12" / 10 M1-4 24" X 24"

49 — DETOUR M04-8 24" X 12" / WEST M3-4 24" X 12" / 10 M1-4 24" X 24" / M05-1R 21" X 21"

50 — DETOUR M04-8 24" X 12" / WEST M3-4 24" X 12" / 10 M1-4 24" X 24"

51 — DETOUR M04-8 24" X 12" / EAST M3-2 24" X 12" / 10 M1-4 24" X 24"

LEGEND

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

MATCH LINE (SEE SHEET 4 OF 5)

SHEET 3 OF 5

PLAN SHEET PRODUCED
BY WisDOT-NE REGION

PROJECT NO: 1500-27-71	HWY: USH 10	COUNTY: MANITOWOC	DETOUR SIGNING PLAN	SHEET 52	E

FILE NAME : N:\spo\traffic\A Work Zone\Detours\Manitowoc County\USH 10\Reedsville - 43\027003_dt.dgn PLOT DATE : 09-MAY-2017 07:09 PLOT BY : dotjlf PLOT NAME : PLOT SCALE : 4000:1

MATCH LINE (SEE SHEET 5 OF 5)

MATCH LINE (SEE SHEET 4 OF 5)

S. ALVERNO ROAD

CALUMET DRIVE

151

42

INTERSTATE 43

S. PARKVIEW RD.

DUFEK DR.

VISTA ROAD

EXPO DRIVE

R 42

151

DEWEY STREET

HECKER ROAD

42nd STREET

VIEBAHN STREET

INTERSTATE 43

56 DETOUR M04-8 24" X 12" / WEST M3-4 24" X 12" / 10 M1-4 24" X 24"

57 DETOUR M04-8 24" X 12" / EAST M3-2 24" X 12" / 10 M1-4 24" X 24"

58 DETOUR M04-8 24" X 12" / EAST M3-2 24" X 12" / 10 M1-4 24" X 24" / ↑ M06-1 21" X 21"

59 DETOUR M04-8 24" X 12" / WEST M3-4 24" X 12" / 10 M1-4 24" X 24" / ↑ M06-1 21" X 21"

60 DETOUR M04-8 24" X 12" / EAST M3-2 24" X 12" / 10 M1-4 24" X 24" / ↰ M05-1L 21" X 21"

61 DETOUR M04-8 24" X 12" / WEST M3-4 24" X 12" / 10 M1-4 24" X 24" / ↑ M06-1 21" X 21"

62 DETOUR M04-8 24" X 12" / EAST M3-2 24" X 12" / 10 M1-4 24" X 24" / ← M06-1 21" X 21"

71 DETOUR M04-8 36" X 18" / WEST M3-4 36" X 18" / 10 M1-4 36" X 36" / ↗ M06-2 30" X 30"

73 DETOUR M04-8 36" X 18" / WEST M3-4 36" X 18" / 10 M1-4 36" X 36" / ↗ M05-2R 21" X 21"

WEST M3-4 36" X 18" / 10 M1-4 36" X 36" / DETOUR AHEAD / W20-2A 48" X 48" — 77

HWY 10 WEST CLOSED WEST OF I-43 FOLLOW DETOUR — FMS 132" X 72" — 74, 75

WEST M3-4 36" X 18" / 10 M1-4 36" X 36" / DETOUR AHEAD / W20-2A 48" X 48" — 76

72 DETOUR M04-8 36" X 18" / WEST M3-4 36" X 18" / 10 M1-4 36" X 36" / ↗ M05-2R 30" X 30"

70 DETOUR M04-8 36" X 18" / WEST M3-4 36" X 18" / 10 M1-4 36" X 36" / ↗ M06-2 30" X 30"

69 DETOUR M04-8 24" X 12" / WEST M3-4 24" X 12" / 10 M1-4 24" X 24" / ↰ M05-1L 21" X 21"

68 DETOUR M04-8 24" X 12" / WEST M3-4 24" X 12" / 10 M1-4 24" X 24" / ← M06-1 21" X 21"

81 DETOUR M04-8 36" X 18" / WEST M3-4 36" X 18" / 10 M1-4 36" X 36" / ↗ M06-2 30" X 30"

82 DETOUR M04-8 36" X 18" / WEST M3-4 36" X 18" / 10 M1-4 36" X 36" / ↗ M05-2R 30" X 30"

83 DETOUR M04-8 36" X 18" / WEST M3-4 36" X 18" / 10 M1-4 36" X 36" / ↗ M05-2R 30" X 30"

80 DETOUR M04-8 24" X 12" / EAST M3-2 24" X 12" / 10 M1-4 24" X 24"

63 DETOUR M04-8 24" X 12" / WEST M3-4 24" X 12" / 10 M1-4 24" X 24" / ↑ M06-1 21" X 21"

64 DETOUR M04-8 24" X 12" / WEST M3-4 24" X 12" / 10 M1-4 24" X 24" / ↑ M06-1 21" X 21"

66 WEST M3-4 24" X 12" / 10 M1-4 24" X 24" / DETOUR AHEAD / W20-2A 48" X 48"

67 WEST M3-4 24" X 12" / 10 M1-4 24" X 24" / DETOUR AHEAD / W20-2A 48" X 48"

65 DETOUR M04-8 24" X 12" / WEST M3-4 24" X 12" / 10 M1-4 24" X 24" / ↑ M06-1 21" X 21"

78 DETOUR M04-8 24" X 12" / WEST M3-4 24" X 12" / 10 M1-4 24" X 24" / → M06-1 21" X 21"

79 DETOUR M04-8 24" X 12" / WEST M3-4 24" X 12" / 10 M1-4 24" X 24" / ↱ M05-1R 21" X 21"

LEGEND

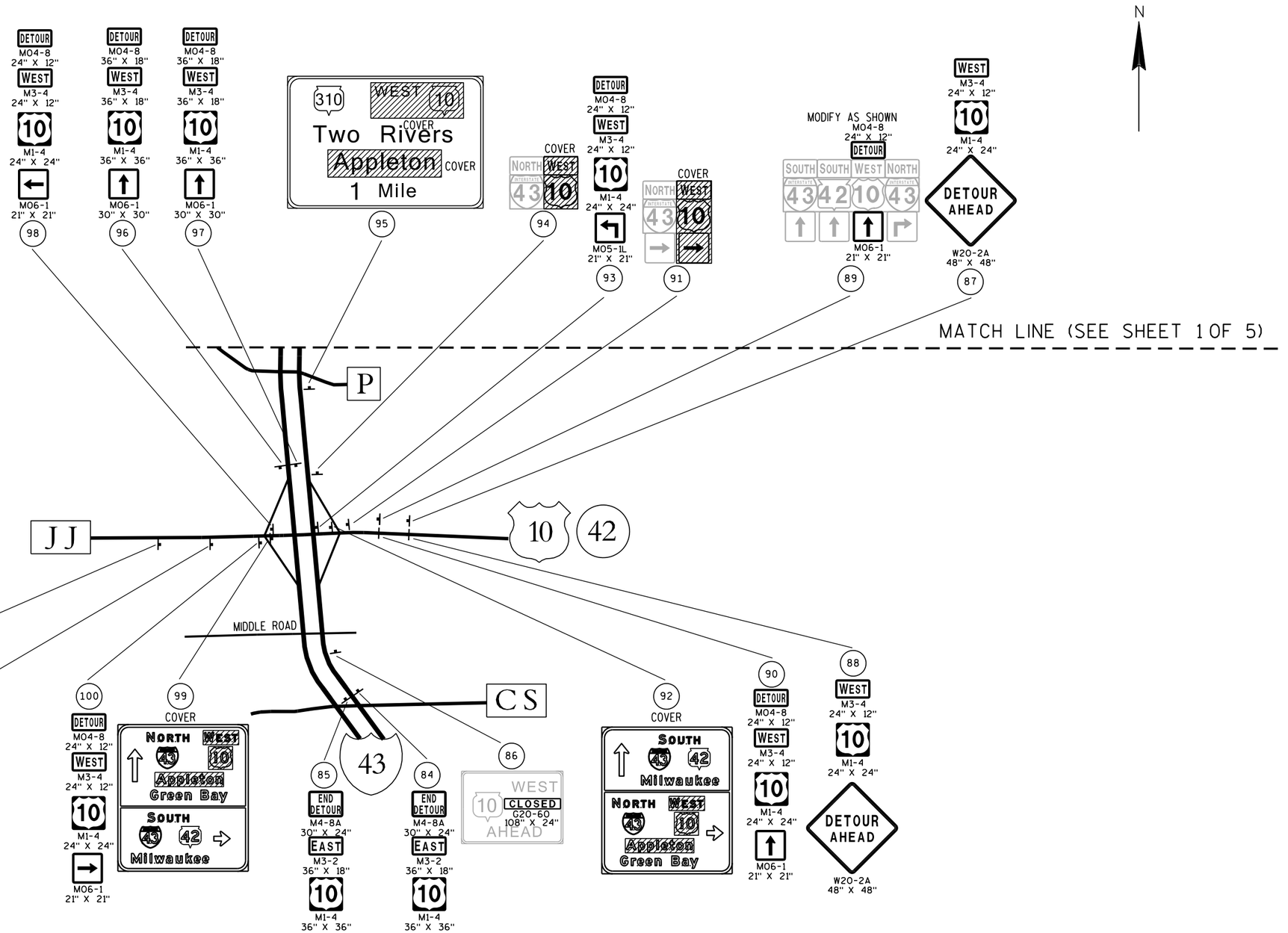
- (X) SIGN NUMBER. REFER TO MISCELLANEOUS QUANTITY SHEET
- (X) PORTABLE CHANGEABLE MESSAGE SIGN
- SIGN MOUNTED ON TYPE III BARRICADE
- POST MOUNTED SIGN

SHEET 4 OF 5

PLAN SHEET PRODUCED BY WisDOT-NE REGION

PROJECT NO: 1500-66-71	HWY: USH 10	COUNTY: MANITOWOC	DETOUR SIGNING PLAN	SHEET 53	E

2



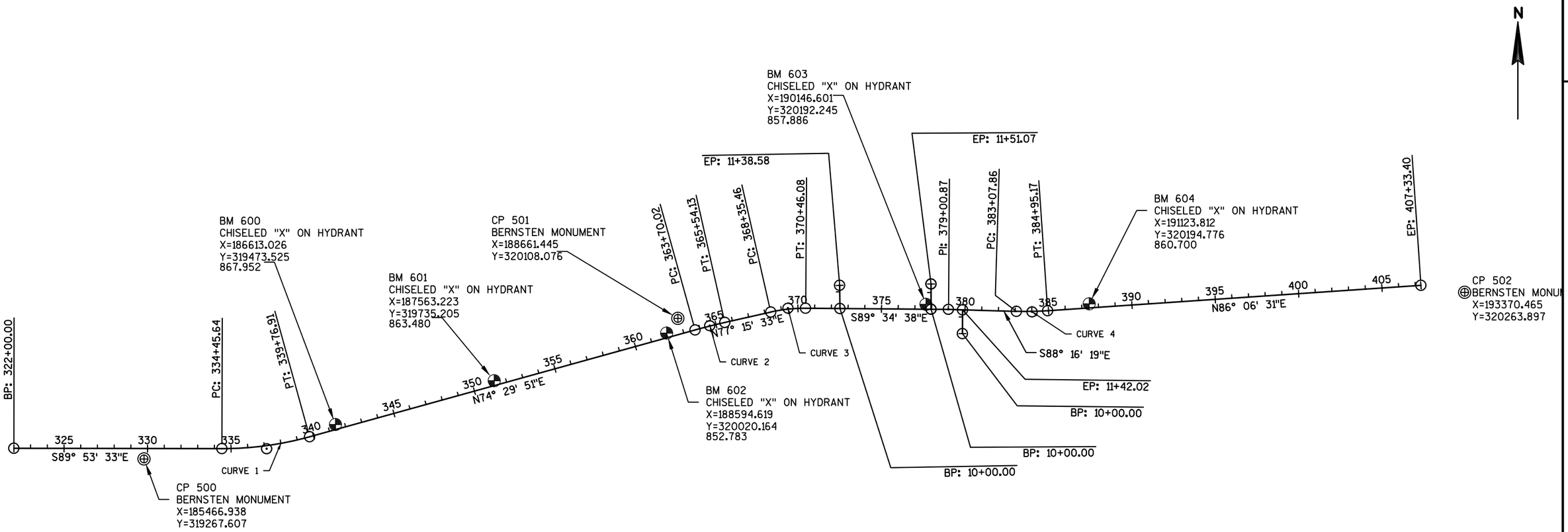
LEGEND

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

SHEET 5 OF 5

PLAN SHEET PRODUCED BY WisDOT-NE REGION

PROJECT NO: 1500-27-71	HWY: USH 10	COUNTY: MANITOWOC	DETOUR SIGNING PLAN	SHEET 54	E



CURVE 1

PI STA = 337+12.93
Y = 319328.260
X = 186200.726
DELTA = 15°36'36"
D = 2°56'18"
T = 267.29'
L = 531.27'
R = 1950.00'
PC STA = 334+45.64
PT STA = 339+76.91

CURVE 2

PI STA = 364+62.09
Y = 320063.946
X = 188853.062
DELTA = 2°45'42"
D = 1°30'00"
T = 92.07'
L = 184.11'
R = 3819.72'
PC STA = 363+70.02
PT STA = 365+54.13

CURVE 3

PI STA = 369+41.24
Y = 320169.627
X = 189320.448
DELTA = 13°09'50"
D = 6°15'00"
T = 105.78'
L = 210.62'
R = 916.73'
PC STA = 368+35.46
PT STA = 370+46.08

CURVE 4

PI STA = 384+01.59
Y = 320147.439
X = 190781.478
DELTA = 5°37'10"
D = 3°00'00"
T = 93.73'
L = 187.32'
R = 1909.86'
PC STA = 383+07.86
PT STA = 384+95.17

BENCHMARKS			
NO.	STATION	DESCRIPTION	ELEVATION
CP 500	329+79 RT	MONUMENT	859.62
CP 501	362+89 LT	MONUMENT	850.03
BM 600	341+45 LT	CHISELED "X" ON FIRE HYDRANT	867.94
BM 601	351+31 LT	CHISELED "X" ON FIRE HYDRANT	863.40
BM 602	362+01 LT	CHISELED "X" ON FIRE HYDRANT	852.71
BM 603	377+66 LT	CHISELED "X" ON FIRE HYDRANT	857.90
BM 604	387+46 LT	CHISELED "X" ON FIRE HYDRANT	860.67

1500-27-71

Line	Item	Item Description	Unit	Total	Qty
0008	204.0100	Removing Pavement	SY	2,522.000	2,522.000
0010	204.0105	Removing Pavement Butt Joints	SY	941.000	941.000
0014	204.0115	Removing Asphaltic Surface Butt Joints	SY	252.000	252.000
0016	204.0120	Removing Asphaltic Surface Milling	SY	10,266.000	10,266.000
0018	204.0150	Removing Curb & Gutter	LF	613.000	613.000
0020	204.0155	Removing Concrete Sidewalk	SY	301.000	301.000
0024	204.0195	Removing Concrete Bases	EACH	1.000	1.000
0026	204.0210	Removing Manholes	EACH	8.000	8.000
0028	204.0220	Removing Inlets	EACH	11.000	11.000
0030	204.0245	Removing Storm Sewer (size) 01. 12-INCH	LF	377.000	377.000
0032	204.0245	Removing Storm Sewer (size) 02. 15-INCH	LF	55.000	55.000
0034	204.0250	Abandoning Manholes	EACH	1.000	1.000
0044	211.0300	Prepare Foundation for Concrete Base (project) 01. 1500-27-71	LS	1.000	1.000
0046	211.0400	Prepare Foundation for Asphaltic Shoulders	STA	13.000	13.000
0048	213.0100	Finishing Roadway (project) 01. 1500-27-71	EACH	1.000	1.000
0054	305.0110	Base Aggregate Dense 3/4-Inch	TON	122.000	122.000
0056	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	940.000	940.000
0060	320.0135	Concrete Base 7-Inch	SY	2,522.000	2,522.000
0062	390.0303	Base Patching Concrete	SY	3,059.000	3,059.000
0064	416.0610	Drilled Tie Bars	EACH	646.000	646.000
0066	416.0620	Drilled Dowel Bars	EACH	7,728.000	7,728.000
0068	440.4410	Incentive IRI Ride	DOL	5,464.000	5,464.000
0070	455.0605	Tack Coat	GAL	3,104.000	3,104.000
0072	460.2005	Incentive Density PWL HMA Pavement	DOL	2,463.000	2,463.000
0074	460.2010	Incentive Air Voids HMA Pavement	DOL	4,531.000	4,531.000
0080	460.6224	HMA Pavement 4 MT 58-28 S	TON	4,531.000	4,531.000
0130	601.0411	Concrete Curb & Gutter 30-Inch Type D	LF	654.000	654.000
0134	602.0410	Concrete Sidewalk 5-Inch	SF	2,448.000	2,448.000
0136	602.0505	Curb Ramp Detectable Warning Field Yellow	SF	275.000	275.000
0140	608.0412	Storm Sewer Pipe Reinforced Concrete Class IV 12-Inch	LF	321.000	321.000
0142	608.0415	Storm Sewer Pipe Reinforced Concrete Class IV 15-Inch	LF	96.000	96.000
0144	608.0424	Storm Sewer Pipe Reinforced Concrete Class IV 24-Inch	LF	7.000	7.000
0146	608.0436	Storm Sewer Pipe Reinforced Concrete Class IV 36-Inch	LF	1,084.000	1,084.000
0148	611.0530	Manhole Covers Type J	EACH	12.000	12.000
0150	611.0624	Inlet Covers Type H	EACH	13.000	13.000
0152	611.2004	Manholes 4-FT Diameter	EACH	1.000	1.000

1500-27-71

Line	Item	Item Description	Unit	Total	Qty
0154	611.2005	Manholes 5-FT Diameter	EACH	9.000	9.000
0156	611.2006	Manholes 6-FT Diameter	EACH	2.000	2.000
0158	611.3230	Inlets 2x3-FT	EACH	13.000	13.000
0160	611.8110	Adjusting Manhole Covers	EACH	9.000	9.000
0168	618.0100	Maintenance And Repair of Haul Roads (project) 01. 1500-27-71	EACH	1.000	1.000
0174	619.1000	Mobilization	EACH	0.200	0.200
0176	624.0100	Water	MGAL	15.000	15.000
0178	625.0100	Topsoil	SY	80.000	80.000
0182	627.0200	Mulching	SY	80.000	80.000
0188	628.1905	Mobilizations Erosion Control	EACH	2.000	2.000
0190	628.1910	Mobilizations Emergency Erosion Control	EACH	1.000	1.000
0198	628.7010	Inlet Protection Type B	EACH	1.000	1.000
0200	628.7015	Inlet Protection Type C	EACH	55.000	55.000
0208	629.0210	Fertilizer Type B	CWT	1.000	1.000
0212	630.0140	Seeding Mixture No. 40	LB	1.400	1.400
0216	634.0614	Posts Wood 4x6-Inch X 14-FT	EACH	21.000	21.000
0218	634.0616	Posts Wood 4x6-Inch X 16-FT	EACH	22.000	22.000
0224	637.2210	Signs Type II Reflective H	SF	213.580	213.580
0228	637.2230	Signs Type II Reflective F	SF	120.160	120.160
0232	638.2602	Removing Signs Type II	EACH	51.000	51.000
0234	638.3000	Removing Small Sign Supports	EACH	49.000	49.000
0236	642.5201	Field Office Type C	EACH	0.200	0.200
0238	643.0100	Traffic Control (project) 01. 1500-27-71	EACH	1.000	1.000
0244	643.0300	Traffic Control Drums	DAY	11,725.000	11,725.000
0250	643.0410	Traffic Control Barricades Type II	DAY	1,072.000	1,072.000
0252	643.0420	Traffic Control Barricades Type III	DAY	2,586.000	2,586.000
0254	643.0705	Traffic Control Warning Lights Type A	DAY	8,790.000	8,790.000
0256	643.0900	Traffic Control Signs	DAY	4,221.000	4,221.000
0258	643.0910	Traffic Control Covering Signs Type I	EACH	7.000	7.000
0260	643.0920	Traffic Control Covering Signs Type II	EACH	9.000	9.000
0262	643.1000	Traffic Control Signs Fixed Message	SF	158.000	158.000
0264	643.1050	Traffic Control Signs PCMS	DAY	14.000	14.000
0266	643.2000	Traffic Control Detour (project) 01. 1500-27-71	EACH	1.000	1.000
0268	643.3000	Traffic Control Detour Signs	DAY	19,950.000	19,950.000
0270	644.1430.S	Temporary Pedestrian Surface Plate	SF	950.000	950.000
0272	644.1601.S	Temporary Curb Ramp	EACH	38.000	38.000
0274	644.1616.S	Temporary Pedestrian Safety Fence	LF	900.000	900.000
0278	646.0106	Pavement Marking Epoxy 4-Inch	LF	6,129.000	6,129.000
0284	646.2304.S	Pavement Marking Grooved Wet Reflective Epoxy 4-	LF	2,261.000	2,261.000

1500-27-71

Line	Item	Item Description	Unit	Total	Qty
		Inch			
0286	646.2308.S	Pavement Marking Grooved Wet Reflective Epoxy 8-Inch	LF	154.000	154.000
0288	647.0656	Pavement Marking Parking Stall Epoxy	LF	5,277.000	5,277.000
0290	647.0766	Pavement Marking Crosswalk Epoxy 6-Inch	LF	1,107.000	1,107.000
0292	648.0100	Locating No-Passing Zones	MI	1.370	1.370
0296	650.4000	Construction Staking Storm Sewer	EACH	25.000	25.000
0300	650.5000	Construction Staking Base	LF	1,135.000	1,135.000
0306	650.8000	Construction Staking Resurfacing Reference	LF	7,212.000	7,212.000
0314	690.0150	Sawing Asphalt	LF	515.000	515.000
0316	690.0250	Sawing Concrete	LF	13,160.000	13,160.000
0324	SPV.0060	Special 01. Adjusting Sanitary Manhole Covers	EACH	18.000	18.000
0326	SPV.0060	Special 02. Adjusting Water Valve Box	EACH	16.000	16.000
0330	SPV.0075	Special 01. Street Sweeping	HRS	40.000	40.000
0332	SPV.0090	Special 01. Abandoning Storm Sewer 12-Inch to 24-Inch	LF	984.000	984.000
0336	SPV.0180	Special 01. Removing Concrete Pavement Milling	SY	7,957.000	7,957.000

3

REMOVING PAVEMENT

CATEGORY	STATION	TO	STATION	LOCATION	204.0100 SY	REMARKS
0010	372+00	-	383+35	WB	2522	USH 10
				TOTAL 0010	2522	

REMOVING PAVEMENT BUTT JOINTS

CATEGORY	STATION	LOCATION	204.0105 SY	REMARKS
0010	349+00	MARIE ST	76	
0010	356+00	KOHLER ST	103	NORTH
0010	356+00	KOHLER ST	72	SOUTH
0010	362+00	HICKORY ST	74	NORTH
0010	362+00	HICKORY ST	83	SOUTH
0010	372+00	PINE ST	72	
0010	378+00	OAK ST	69	
0010	380+00	ELM ST	77	
0010	383+00	CTH S	80	NORTH
0010	383+00	CTH S	80	SOUTH
0010	394+00	CHESTNUT LN	110	
0010	395+61.49	MAINLINE	44	
		TOTAL 0010	941	

REMOVING ASPHALTIC SURFACE MILLING

CATEGORY	STATION	TO	STATION	LOCATION	204.0120 SY	REMARKS
0010	323+50	-	335+06	Mainline	3853	
0010	335+05	-	345+60	Mainline	5153	
0010	329+75	-	335+06	Mainline	590	Right Turn Lane
0010			329+00	Sideroad	670	Hempton Lake Rd
				TOTAL 0010	10266	

REMOVING ASPHALTIC SURFACE BUTT JOINTS

CATEGORY	STATION	LOCATION	204.0115 SY	REMARKS
0010	Hempton Lake Rd	Sideroad	33	
0010	Hempton Lake Rd	Sideraod	33	
0010	323+50	Mainline	49	Project Limit
0010	345+60	Mainline	49	Concrete/Asphalt Transition
0010	Pine St	Sideroad	44	
0010	Oak St	Sideroad	44	
		TOTAL 0010	252	

REMOVING CURB & GUTTER

CATEGORY	STATION	LOCATION	204.0150 LF	REMARKS
0010	349+15	USH 10	22	MARIE ST-SW CORNER
0010	349+15	USH 10	8	MARIE ST-N SIDE ROAD
0010	349+50	USH 10	18	MARIE ST-SE CORNER
0010	356+00	USH 10	18	KOHLER ST-SW CORNER
0010	356+50	USH 10	39	KOHLER ST-SE CORNER
0010	362+35	USH 10	19	HICKORY ST-SW CORNER
0010	362+75	USH 10	28	HICKORY ST-SE CORNER
0010	362+40	USH 10	21	HICKORY ST-NW CORNER
0010	362+90	USH 10	21	HICKORY ST-NE CORNER
0010	368+52	USH 10	8	ST. MICHAELS CHURCH-SOUTH
0010	368+52	USH 10	24	ST. MICHAELS CHURCH-NORTH
0010	372+70	USH 10	34	PINE ST-SOUTH
0010	372+25	USH 10	39	PINE ST-NW CORNER
0010	372+75	USH 10	45	PINE ST-NE CORNER
0010	378+20	USH 10	23	OAK ST-SOUTH SIDE
0010	377+25	USH 10	43	OAK ST-NW CORNER
0010	378+20	USH 10	49	OAK ST-NE CORNER
0010	379+60	USH 10	41	ELM ST-SW CORNER
0010	380+00	USH 10	38	ELM ST-SE CORNER
0010	383+35	USH 10	23	CHERRY ST-SE CORNER
0010	382+90	USH 10	20	CHERRY ST-SW CORNER
0010	382+90	USH 10	16	CHERRY ST-NW CORNER
0010	387+55	USH 10	8	FIREHOUSE-NORTH
0010	387+55	USH 10	8	FIREHOUSE-SOUTH
		TOTAL 0010	613	

REMOVING CONCRETE SIDEWALK

CATEGORY	STATION	LOCATION	204.0155 SY	REMARKS
0010	349+15	USH 10	17	MARIE ST-SW CORNER
0010	349+15	USH 10	3	MARIE ST-N SIDE ROAD
0010	349+50	USH 10	7	MARIE ST-SE CORNER
0010	356+00	USH 10	7	KOHLER ST-SW CORNER
0010	356+50	USH 10	16	KOHLER ST-SE CORNER
0010	362+35	USH 10	13	HICKORY ST-SW CORNER
0010	362+75	USH 10	16	HICKORY ST-SE CORNER
0010	362+40	USH 10	16	HICKORY ST-NW CORNER
0010	362+90	USH 10	15	HICKORY ST-NE CORNER
0010	368+52	USH 10	7	ST. MICHAELS CHURCH-SOUTH
0010	368+52	USH 10	19	ST. MICHAELS CHURCH-NORTH
0010	372+70	USH 10	32	PINE ST-SOUTH
0010	372+25	USH 10	6	PINE ST-NW CORNER
0010	372+75	USH 10	12	PINE ST-NE CORNER
0010	378+20	USH 10	16	OAK ST-SOUTH SIDE
0010	377+25	USH 10	14	OAK ST-NW CORNER
0010	378+20	USH 10	19	OAK ST-NE CORNER
0010	379+60	USH 10	11	ELM ST-SW CORNER
0010	380+00	USH 10	12	ELM ST-SE CORNER
0010	379+80	USH 10	4	ELM ST-NORTH SIDE ROAD
0010	383+35	USH 10	2	CHERRY ST-SE CORNER
0010	382+90	USH 10	2	CHERRY ST-SW CORNER
0010	382+90	USH 10	2	CHERRY ST-NW CORNER
0010	387+55	USH 10	14	FIREHOUSE-NORTH
0010	387+55	USH 10	3	FIREHOUSE-SOUTH
0010	394+25	USH 10	13	CHESTNUT LANE-SW CORNER
0010	394+25	USH 10	4	CHESTNUT LANE-NORTH SIDE
TOTAL 0010			301	

REMOVING AND ABANDONING MANHOLES

CATEGORY	STATION	LOCATION	204.0210 REMOVING MANHOLES EACH	204.0250 ABANDONING MANHOLES EACH	REMARKS
0010	372+52	17.45' LT	1		USH 10
0010	372+81	14.17' LT	1		USH 10
0010	375+16	12.57' LT		1	USH 10
0010	377+65	11.76' LT	1		USH 10
0010	378+12	12.06' LT	1		USH 10
0010	378+38	11.63' LT	1		USH 10
0010	379+84	11.92' LT	1		USH 10
0010	11+00	0.6' LT	1		ELM ST
0010	383+10	12.70' LT	1		USH 10
TOTAL 0010			8	1	

REMOVING CONCRETE BASES

CATEGORY	STATION	LOCATION	204.0195 EACH	REMARKS
0010	10+31 LT	OAK STREET	1	NW QUADRANT OAK ST/USH 10
TOTAL 0010			1	

REMOVING INLETS

CATEGORY	STATION	LOCATION	204.0220 EACH	REMARKS
0010	372+13	21.6' LT	1	USH 10
0010	372+52	20.9' RT	1	USH 10
0010	372+95	21.5' LT	1	USH 10
0010	10+41	13.4' LT	1	PINE ST
0010	10+41	14.2' RT	1	PINE ST
0010	377+59	21.2' LT	1	USH 10
0010	377+65	21.3' RT	1	USH 10
0010	378+37	21.1' LT	1	USH 10
0010	10+45	12.5' LT	1	OAK ST
0010	10+43	14.0' RT	1	OAK ST
0010	379+79	21.1' LT	1	USH 10
TOTAL 0010			11	

REMOVING STORM SEWER (SIZE)

CATEGORY	STATION	STATION	LOCATION	204.0245 LF	REMARKS
0010	372+81	10+41 13.4'RT	PINE/USH 10 MH TO INLET	52	12"
0010	372+52	372+13	PINE/USH 10 MH TO INLET	39	12"
0010	372+52	372+81	PINE/USH 10 MH TO MH	29	12"
0010	372+81	372+95	PINE/USH 10 MH TO INLET	16	12"
0010	372+52	20.9' RT	PINE/USH 10 MH TO INLET	39	12"
0010	377+65	377+59 21.2'LT	OAK ST/USH 10 MH TO INLET	12	12"
0010	377+65	21.3' RT	OAK ST/USH 10 MH TO INLET	34	12"
0010	377+65	378+12	OAK ST/USH 10 MH TO MH	48	12"
0010	378+12	10+43 14.0' RT	OAK ST/USH 10 MH TO INLET	32	12"
0010	10+43 LT	10+43 RT	OAK ST/USH 10 INLET TO INLET	29	12"
0010	378+12	378+38	OAK ST/USH 10 MH TO MH	26	12"
0010	378+38	378+37 21.1' LT	OAK ST/USH 10 MH TO INLET	11	12"
0010	379+84	379+79 21.1' LT	ELM ST/USH 10 MH TO INLET	12	12"
0010	379+84	11+00 ELM ST	ELM ST/USH 10 MH TO MH	55	15"
			TOTAL 0010	432	

NOTE: 204.0245.01 (12") = 377 LF
204.0245.02 (15") = 55 LF

PREPARE FOUNDATION FOR CONCRETE BASE (PROJECT)

CATEGORY	STATION TO		STATION	LOCATION	211.0300 LS	REMARKS
0010	372+00	-	383+35	USH 10	1	
TOTAL 0010					1	

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PREPARE FOUNDATION FOR ASPHALTIC SHOULDERS

CATEGORY	STATION	TO	STATION	LOCATION	211.0400 STA	REMARKS
0010	323+50	-	335+06	Mainline	13	USH 10
				TOTAL 0010	13	

FINISHING ROADWAY (PROJECT)

CATEGORY	LOCATION	213.0100 EACH	REMARKS
0010	1500-27-71	1	USH 10
	TOTAL 0010	1	

BASE AGGREGATE DENSE

CATEGORY	STATION	TO	STATION	LOCATION	305.0110 3/4-INCH TON	305.0120 1 1/4-INCH TON	REMARKS
0010	323+50	-	335+06	RT	75		USH 10 SHOULDERS
0010	323+50	-	329+75	LT	41		USH 10 SHOULDERS
0010	329+75	-	335+06	LT	7		USH 10 SHOULDERS
0010	372+00	-	383+35	LT		840	USH 10 WB
0010						50	PINE ST
0010						50	OAK ST
				TOTAL 0010	122	940	

*NO COMMON EXCAVATION IS ASSUMED IN THE CONCRETE REMOVAL AREA OR STORM SEWER REPLACEMENT AREAS. THE 1 1/4" BAD IS TO BE USED IN THE CONCRETE BASE LOCATIONS.

CONCRETE BASE 7-INCH

CATEGORY	STATION	TO	STATION	LOCATION	320.0135 SY	REMARKS
0010	372+00	-	383+35	USH 10 WB	2522	20'X1135'
				TOTAL	2522	

BASE PATCHING CONCRETE

CATEGORY	STATION	TO	STATION	LOCATION	390.0303 SY	REMARKS
0010	345+60	-	356+00	USH 10 Mainline	248	Travel Lane
0010	356+00	-	362+00	USH 10 Mainline	248	Travel Lane
0010	362+00	-	372+00	USH 10 Mainline	368	Travel Lane
0010	372+00	-	379+00	USH 10 Mainline	120	Travel Lane
0010	379+00	-	382+50	USH 10 Mainline	88	Travel Lane
0010	382+50	-	395+61.49	USH 10 Mainline	376	Travel Lane
				TOTAL 0010	1448	
0020	345+60	-	356+00	USH 10 Mainline	400	Parking Lane
0020	356+00	-	362+00	USH 10 Mainline	240	Parking Lane
0020	362+00	-	372+00	USH 10 Mainline	373	Parking Lane
0020	372+00	-	379+00	USH 10 Mainline	117	Parking Lane
0020	379+00	-	382+50	USH 10 Mainline	53	Parking Lane
0020	382+50	-	395+61.49	USH 10 Mainline	427	Parking Lane
				TOTAL 0020	1611	

3

DRILLED TIE BARS

CATEGORY	STATION	TO	STATION	LOCATION	416.0610 EACH	REMARKS
0010	345+60	-	356+00	Mainline	4	Travel Lane-Base Patch
0010	356+00	-	362+00	Mainline	4	Travel Lane-Base Patch
0010	362+00	-	372+00	Mainline	4	Travel Lane-Base Patch
0010	372+00	-	379+00	Mainline	4	Travel Lane-Base Patch
0010	379+00	-	382+50	Mainline	4	Travel Lane-Base Patch
0010	382+50	-	395+61.49	Mainline	4	Travel Lane-Base Patch
0010	372+00	-	383+35	Mainline	454	Travel Lane (WB)
0010	348+00	-	350+00	Marie St	12	C&G Radius Ends
0010	372+02	-	383+37	Kohler St	8	C&G Radius Ends
0010	372+03	-	383+38	Hickory St	16	C&G Radius Ends
0010	372+04	-	383+39	St Michaels Church	8	C&G Radius Ends
0010	372+05	-	383+40	Pine St	12	C&G Radius Ends
0010	372+06	-	383+41	Oak St	12	C&G Radius Ends
0010	372+07	-	383+42	Elm St	8	C&G Radius Ends
0010	372+08	-	383+43	CTH S	12	C&G Radius Ends
0010	372+09	-	383+44	Firehouse	8	C&G Radius Ends
0010	372+10	-	383+45	Chestnut Ln	8	C&G Radius Ends
				TOTAL 0010	598	
0020	345+60	-	356+00	Mainline	8	Parking Lane-Base Patch
0020	356+00	-	362+00	Mainline	8	Parking Lane-Base Patch
0020	362+00	-	372+00	Mainline	8	Parking Lane-Base Patch
0020	372+00	-	379+00	Mainline	8	Parking Lane-Base Patch
0020	379+00	-	382+50	Mainline	8	Parking Lane-Base Patch
0020	382+50	-	395+61.49	Mainline	8	Parking Lane-Base Patch
				TOTAL 0020	48	

DRILLED DOWEL BARS

CATEGORY	STATION	TO	STATION	LOCATION	416.0620 EACH	REMARKS
0010	345+60	-	356+00	Mainline	496	Travel Lane
0010	356+00	-	362+00	Mainline	496	Travel Lane
0010	362+00	-	372+00	Mainline	736	Travel Lane
0010	372+00	-	379+00	Mainline	240	Travel Lane
0010	379+00	-	382+50	Mainline	176	Travel Lane
0010	382+50	-	395+61.49	Mainline	752	Travel Lane
				TOTAL 0010	2896	
0020	345+60	-	356+00	Mainline	1200	Parking Lane
0020	356+00	-	362+00	Mainline	720	Parking Lane
0020	362+00	-	372+00	Mainline	1120	Parking Lane
0020	372+00	-	379+00	Mainline	352	Parking Lane
0020	379+00	-	382+50	Mainline	160	Parking Lane
0020	382+50	-	395+61.49	Mainline	1280	Parking Lane
				TOTAL 0020	4832	

FILE NAME : _____ PLOT DATE : _____ PLOT BY : _____ PLOT NAME : _____ PLOT SCALE : 1:1

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HMA SUMMARY

CATEGORY	STATION	TO	STATION	LOCATION		460.6224 HMA PAVEMENT 4 MT 58-28 S TON	455.0605 TACK COAT GAL	INCENTIVE DENSITY PWL HMA PAVEMENT* TON	INCENTIVE AIR VOIDS HMA PAVEMENT* TON	REMARKS
0010	323+50	-	329+75	USH 10 Mainline		463	283	327	463	Travel Lane
0010	329+75	-	335+06	USH 10 Mainline		335	205	278	335	Travel Lane
0010	329+75	-	335+06	USH 10 Mainline		116	71	-	116	Right Turn Lane
0010	335+06	-	345+60	USH 10 Mainline		1010	618	551	1010	Travel Lane
0010	345+60	-	395+61	USH 10 Mainline		140	467	-	140	Leveling Layer
0010	345+60	-	395+61	USH 10 Mainline		1307	667	1307	1307	Travel Lane
0010			329+00	Sideroad		131	80	-	131	Hempton Lake Rd
0010				Pine St		51	36	-	51	
0010				Oak St		58	42	-	58	
0010	325+14	-	334+00	USH 10 Mainline		49	13	-	49	USH 10 EB SHOULDER
				TOTAL 0010		3660	2482	2463	3660	
0020	345+60	-	395+61	Mainline		871	622	-	871	Parking Lane
				TOTAL 0020		871	622	0	871	

*FOR INFORMATION ONLY, SHOWS TONNAGES APPLICABLE TO INCENTIVES

FILE NAME : _____ PLOT DATE : _____ PLOT BY : _____ PLOT NAME : _____ PLOT SCALE : 1:1

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CONCRETE CURB & GUTTER 30-INCH TYPE D

CATEGORY	STATION	LOCATION	601.0411 LF	REMARKS
0010	349+15	USH 10	22	MARIE ST-SW CORNER
0010	349+15	USH 10	8	MARIE ST-N SIDE ROAD
0010	349+50	USH 10	18	MARIE ST-SE CORNER
0010	356+00	USH 10	18	KOHLER ST-SW CORNER
0010	356+50	USH 10	39	KOHLER ST-SE CORNER
0010	362+35	USH 10	19	HICKORY ST-SW CORNER
0010	362+75	USH 10	28	HICKORY ST-SE CORNER
0010	362+40	USH 10	21	HICKORY ST-NW CORNER
0010	362+90	USH 10	21	HICKORY ST-NE CORNER
0010	368+52	USH 10	8	ST. MICHAELS CHURCH-SOUTH
0010	368+52	USH 10	24	ST. MICHAELS CHURCH-NORTH
0010	372+70	USH 10	34	PINE ST-SOUTH
0010	372+25	USH 10	39	PINE ST-NW CORNER
0010	372+75	USH 10	45	PINE ST-NE CORNER
0010	378+20	USH 10	23	OAK ST-SOUTH SIDE
0010	377+25	USH 10	43	OAK ST-NW CORNER
0010	378+20	USH 10	49	OAK ST-NE CORNER
0010	379+60	USH 10	41	ELM ST-SW CORNER
0010	380+00	USH 10	38	ELM ST-SE CORNER
0010	383+35	USH 10	23	CHERRY ST-SE CORNER
0010	382+90	USH 10	20	CHERRY ST-SW CORNER
0010	382+90	USH 10	16	CHERRY ST-NW CORNER
0010	387+55	USH 10	8	FIREHOUSE-NORTH
0010	387+55	USH 10	8	FIREHOUSE-SOUTH
0010	394+25	USH 10	9	CHESTNUT LANE-NORTH
0010	394+25	USH 10	33	CHESTNUT LANE SW CORNER
		TOTAL	654	

CONCRETE SIDEWALK 5-INCH/CURB RAMP DETECTABLE WARNING FIELD YELLOW

CATEGORY	STATION	LOCATION	602.0410 SF	602.0505 SF	REMARKS
0010	349+15	USH 10	92	10	MARIE ST-SW CORNER
0010	349+15	USH 10	29	10	MARIE ST-N SIDE ROAD
0010	349+50	USH 10	70	10	MARIE ST-SE CORNER
0010	356+00	USH 10	77	10	KOHLER ST-SW CORNER
0010	356+50	USH 10	184	20	KOHLER ST-SE CORNER
0010	362+35	USH 10	81	10	HICKORY ST-SW CORNER
0010	362+75	USH 10	149	10	HICKORY ST-SE CORNER
0010	362+40	USH 10	81	10	HICKORY ST-NW CORNER
0010	362+90	USH 10	90	10	HICKORY ST-NE CORNER
0010	368+52	USH 10	60	10	ST. MICHAELS CHURCH-SOUTH
0010	368+52	USH 10	175	10	ST. MICHAELS CHURCH-NORTH
0010	372+70	USH 10	284	10	PINE ST-SOUTH
0010	372+25	USH 10	55	10	PINE ST-NW CORNER
0010	372+75	USH 10	111	10	PINE ST-NE CORNER
0010	378+20	USH 10	148	10	OAK ST-SOUTH SIDE
0010	377+25	USH 10	126	15	OAK ST-NW CORNER
0010	378+20	USH 10	135	10	OAK ST-NE CORNER
0010	379+60	USH 10	98	10	ELM ST-SW CORNER
0010	380+00	USH 10	50	10	ELM ST-SE CORNER
0010	379+80	USH 10	34		ELM ST-NORTH SIDE ROAD
0010	383+35	USH 10	15	10	CHERRY ST-SE CORNER
0010	382+90	USH 10	15	10	CHERRY ST-SW CORNER
0010	382+90	USH 10	14	10	CHERRY ST-NW CORNER
0010	387+55	USH 10	129	10	FIREHOUSE-NORTH
0010	387+55	USH 10	25	10	FIREHOUSE-SOUTH
0010	394+25	USH 10	88	10	CHESTNUT LANE-SW CORNER
0010	394+25	USH 10	35	10	CHESTNUT LANE-NORTH SIDE
		TOTAL	2448	275	

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STORM SEWER PIPES										
				608.0412	608.0415	608.0424	608.0436			
				Storm Sewer Pipe Reinforced Concrete Class IV 12-Inch	Storm Sewer Pipe Reinforced Concrete Class IV 15-Inch	Storm Sewer Pipe Reinforced Concrete Class IV 24-Inch	Storm Sewer Pipe Reinforced Concrete Class IV 36-Inch	INLET	DISCHARGE	SLOPE
FROM	-	TO	LOCATION	LF	LF	LF	LF	ELEVATION	ELEVATION	FT/FT
MH12	-	CTH S				7		850.50	850.48	0.0029
INL1A	-	MH1	PINE ST	10				853.10	852.95	0.0150
INL1B	-	MH1	PINE ST	18				853.10	852.95	0.0083
INL2A	-	MH2		39				853.35	852.89	0.0118
INL2B	-	MH2		39				853.20	852.89	0.0079
INL3A	-	MH3		16				853.34	852.93	0.0256
INL4A	-	MH4		16				852.68	852.37	0.0194
INL5A	-	MH5		17				852.38	852.29	0.0053
INL5B	-	MH5		28				852.82	852.60	0.0079
INL6A	-	MH6		18				853.28	852.75	0.0294
INL6B	-	MH6		11				853.20	852.73	0.0427
INL8A	-	MH8		16				852.96	852.70	0.0162
INL8B	-	MH8		28				852.97	852.70	0.0096
INL9A	-	MH9		17				853.40	853.37	0.0018
MH10 COLLAR 1	-	MH10		8				852.92	852.58	0.0425
MH10 COLLAR 2	-	MH10		8				852.66	852.48	0.0225
MH10 COLLAR 3	-	MH10		8				851.75	851.58	0.0212
MH10	-	MH9			49			850.88	850.60	0.0057
MH11	-	MH12					110	849.64	849.50	0.0013
MH12	-	MH12 COLLAR 2		8				851.22	851.01	0.0263
MH12	-	MH12 COLLAR 3		8				852.25	852.21	0.0050
MH12	-	MH12 COLLAR 4		8				854.32	854.28	0.0050
MH12	-	MH12 COLLAR1			8			850.69	850.61	0.0100
MH1	-	MH2					25	850.95	850.89	0.0024
MH2	-	MH3					44	850.89	850.84	0.0011
MH3	-	MH4					405	850.84	850.37	0.0012
MH4	-	MH5					65	850.37	850.29	0.0012
MH5	-	MH7					35	850.29	850.25	0.0011
MH6	-	MH7			39			852.29	852.00	0.0074
MH7	-	MH8					38	850.25	850.20	0.0013
MH8	-	MH9					147	850.20	849.90	0.0020
MH9	-	MH11					215	849.90	849.64	0.0012
			TOTALS	321	96	7	1084			
Remarks										
* NON-BID ITEM: FOR INFORMATION ONLY										
ALL ITEMS IN THE TABLE ARE CATEGORY 0010										

STORM SEWER STRUCTURES

				611.0530	611.0624	611.2004	611.2005	611.2006	611.3230	650.4000			
				Manhole Covers Type J	Inlet Covers Type H	Manholes 4-FT Diameter	Manholes 5-FT Diameter	Manholes 6-FT Diameter	Inlets 2x3-FT	Construction Staking Storm Sewer	RIM	INVERT**	DEPTH***
STRUCTURE	STATION	OFFSET*	LOCATION	EACH	EACH	EACH	EACH	EACH	EACH	EACH	ELEVATION	ELEVATION	FT
MH1	10+42	4' LT	PINE ST	1			1			1	855.96	850.95	4.10
MH2	372+53	17.4' LT	USH 10 MAINLINE	1				1		1	855.92	850.89	4.12
MH3	372+95	6' LT	USH 10 MAINLINE	1			1			1	856.15	850.84	4.41
MH4	377+00	6' LT	USH 10 MAINLINE	1			1			1	855.60	850.37	4.33
MH5	377+65	6' LT	USH 10 MAINLINE	1			1			1	855.53	850.29	4.34
MH6	10+45	4' RT	OAK ST	1		1				1	855.56	852.29	2.22
MH7	378+00	6' LT	USH 10 MAINLINE	1			1			1	855.61	850.25	4.45
MH8	378+38	6' LT	USH 10 MAINLINE	1			1			1	855.71	850.20	4.60
MH9	379+85	6' LT	USH 10 MAINLINE	1			1			1	856.11	849.90	5.31
MH10	11+00	0.6' LT	ELM ST	1			1			1	856.08	850.88	4.15
MH11	382+00	6' LT	USH 10 MAINLINE	1			1			1	856.75	849.64	6.21
MH12	383+10	12.7' LT	USH 10 MAINLINE	1				1		1	856.95	849.50	6.55
INL1A	10+42	13.8' LT	PINE ST		1				1	1	855.76	853.10	1.82
INL1B	10+42	14.4' RT	PINE ST		1				1	1	855.77	853.10	1.84
INL2A	372+14	22' LT	USH 10 MAINLINE		1				1	1	855.65	853.35	1.46
INL2B	372+52	21.2' RT	USH 10 MAINLINE		1				1	1	855.71	853.20	1.68
INL3A	372+95	22' LT	USH 10 MAINLINE		1				1	1	855.57	853.34	1.39
INL4A	377+00	21.7' LT	USH 10 MAINLINE		1				1	1	855.13	852.68	1.62
INL5A	377+59	21.7' LT	USH 10 MAINLINE		1				1	1	854.99	852.38	1.77
INL5B	377+65	21.5' RT	USH 10 MAINLINE		1				1	1	855.00	852.82	1.36
INL6A	10+45	13.8' LT	OAK ST		1				1	1	855.39	853.28	1.28
INL6B	10+45	15' RT	OAK ST		1				1	1	855.48	853.20	1.45
INL8A	378+37	21.7' LT	USH 10 MAINLINE		1				1	1	855.19	852.96	1.40
INL8B	378+37	21.5' RT	USH 10 MAINLINE		1				1	1	855.19	852.97	1.39
INL9A	379+79	21.7' LT	USH 10 MAINLINE		1				1	1	855.63	853.40	1.39
			TOTALS	12	13	1	9	2	13	25			

REMARKS

* STATIONS AND OFFSETS ARE TO CENTER OF STRUCTURE

*** DEPTH = RIM ELEV - TOP OF STRUCTURE BASE ELEV - COVER HEIGHT - 6 -INCH ADJUSTMENT RING HEIGHT

ALL ITEMS IN THE TABLE ARE CATEGORY 0010

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ADJUSTING MANHOLE COVERS

CATEGORY	STATION	LOCATION	611.8110 EACH	REMARKS
0010	349+50	USH 10 EB	1	STORM SEWER
0010	352+94	USH 10 EB	1	STORM SEWER
0010	356+50	USH 10 EB	1	STORM SEWER
0010	356+50	USH 10 WB	1	STORM SEWER
0010	358+64	USH 10 EB	1	STORM SEWER
0010	361+76	USH 10 EB	1	STORM SEWER
0010	362+60	USH 10 EB	1	STORM SEWER
0010	385+24	USH 10 WB	1	STORM SEWER
0010	394+71	USH 10 EB	1	STORM SEWER
TOTAL 0010			9	

WATER

CATEGORY	STATION	TO	STATION	LOCATION	624.0100 MGAL	REMARKS
0010	323+50	-	383+35	VARIES	15	WATER TO BE USED FOR BASE AGGREGATE COMPACTION
TOTAL 0010					15	

RESTORATION

CATEGORY	LOCATION	TOPSOIL 625.0100 SY	MULCHING 627.0200 SY	FERTILIZER TYPE B 629.0210 CWT	SEEDING MIXTURE NO.40 630.0140 LB	REMARKS
0010	USH 10	80	80	1.0	1.4	QUANTITIES DETERMINED FOR RESTORATION AROUND SIDEWALKS AND CURB & GUTTER
	TOTAL 0010	80	80	1.0	1.4	

MOBILIZATIONS EROSION CONTROL

CATEGORY	LOCATION	628.1905 EACH	REMARKS
0010	1500-27-71	2	
	TOTAL 0010	2	

MOBILIZATIONS EMERGENCY EROSION CONTROL

CATEGORY	LOCATION	628.1910 EACH	REMARKS
0010	1500-27-71	1	
	TOTAL 0010	1	

INLET PROTECTION

CATEGORY	STRUCTURE ID	STATION	LOCATION	INLET PROTECTION TYPE C 628.7015 EACH	INLET PROTECTION TYPE B 628.7010 EACH	REMARKS
0010	INL1A	10+42	PINE ST	2		INSTALL ON NEW & EXISTING
0010	INL1B	10+42	PINE ST	2		INSTALL ON NEW & EXISTING
0010	INL2A	372+14	USH 10	2		INSTALL ON NEW & EXISTING
0010	INL2B	372+52	USH 10	2		INSTALL ON NEW & EXISTING
0010	INL3A	372+95	USH 10	2		INSTALL ON NEW & EXISTING
0010	INL4A	377+00	USH 10	1		
0010	INL5A	377+59	USH 10	2		INSTALL ON NEW & EXISTING
0010	INL5B	377+65	USH 10	2		INSTALL ON NEW & EXISTING
0010	INL6A	10+45	OAK ST	2		INSTALL ON NEW & EXISTING
0010	INL6B	10+45	OAK ST	2		INSTALL ON NEW & EXISTING
0010	INL8A	378+37	USH 10	2		INSTALL ON NEW & EXISTING
0010	INL8B	378+37	USH 10	1		
0010	INL9A	379+79	USH 10	2		INSTALL ON NEW & EXISTING
0010	EXISTING	342+00	USH 10 WB	1		
0010	EXISTING	343+00	USH 10 WB	1		
0010	EXISTING	343+00	USH 10 EB	1		
0010	EXISTING	348+97	USH 10 EB	1		
0010	EXISTING		MARIE ST LT	1		INTERSECTION OF USH 10/MARIE
0010	EXISTING		MARIE ST RT	1		INTERSECTION OF USH 10/MARIE
0010	EXISTING	349+60	USH 10 WB	1		
0010	EXISTING	352+50	USH 10 WB	1		
0010	EXISTING	352+50	USH 10 EB	1		
0010	EXISTING	355+95	USH 10 EB	1		
0010	EXISTING	356+00	USH 10 WB	1		
0010	EXISTING	358+55	USH 10 EB	1		
0010	EXISTING	358+75	USH 10 WB	1		
0010	EXISTING	362+17	USH 10 WB	1		
0010	EXISTING	362+17	USH 10 EB	1		SE CORNER OF USH 10 AND KOHLER ST
0010	EXISTING		HICKORY ST RT	1		
0010	EXISTING	363+05	USH 10 EB	1		
0010	EXISTING	363+05	USH 10 WB	1		
0010	EXISTING	366+34	USH 10 EB		1	
0010	EXISTING	366+34	USH 10 WB	1		
0010	EXISTING		ELM ST RT	1		INTERSECTION ON USH 10/ELM ST
0010	EXISTING		ELM ST LT	1		INTERSECTION ON USH 10/ELM ST
0010	EXISTING	380+24	USH 10 EB	1		
0010	EXISTING		CTH S LT	1		INTERSECTION ON USH 10/CTH S
0010	EXISTING		CTH S RT	1		INTERSECTION ON USH 10/CTH S
0010	EXISTING	383+58	USH 10 EB	1		
0010	EXISTING	383+58	USH 10 WB	1		
0010	EXISTING	385+36	USH 10 EB	1		
0010	EXISTING	385+36	USH 10 WB	1		
0010	EXISTING	394+65	USH 10 WB	1		
0010	EXISTING	394+93	USH 10 EB	1		
0010	EXISTING		CHESTNUT LN LT	1		INTERSECTION ON USH 10/CHESTNUT
TOTAL 0010				55	1	

ERECTION OF TYPE II SIGNS AND SUPPORTS

SIGN NO.	LOCATION	SIGN CODE	W X H	637.2210 SIGNS TYPE II REFLECTIVE H S.F.	637.2230 SIGNS TYPE II REFLECTIVE F S.F.	634.0614 POSTS WOOD 4x6x14 EACH	634.0616 POSTS WOOD 4x6x16 EACH	638.2602 REMOVING TYPE II SIGNS EACH	638.3000 REMOVING SMALL SIGN SUPPORTS EACH	REMARKS
1	USH 10, S. OF HEMPTON LAKE RD	W8-70	---	---	---	---	---	1	1	
2	"	W57-51	---	---	---	---	---	---	---	PART OF SIGN 1 REMOVAL
3	"	W3-5	36" x 36"	---	9.00	---	1	1	1	40 MPH
4	HEMPTON LAKE ROAD	R1-1	30" x 30"	5.18	---	---	1	1	1	
5	"	R1-1	30" x 30"	5.18	---	---	1	1	1	
6	VACANT	---	---	---	---	---	---	---	---	
7	"	R2-1	24" x 30"	5.00	---	---	1	1	1	55 MPH
8	"	R2-1	24" x 30"	5.00	---	---	1	1	1	40 MPH
9	"	R2-1	24" x 30"	5.00	---	---	1	1	1	30 MPH
10	"	W14-3	48" x 36"	---	6.00	---	---	---	---	MOUNT TO BACK OF SIGN 9, PART OF SIGN 9 REMOVAL
11	"	R2-1	24" x 30"	5.00	---	1	---	1	1	40 MPH
12	MARIE STREET	R1-1	30" x 30"	5.18	---	1	---	1	1	
13	USH 10, N. OF MARIE STREET	R2-1	24" x 30"	5.00	---	1	---	1	1	30 MPH
14	"	R2-1	24" x 30"	5.00	---	1	---	1	1	30 MPH
15	KOHLER STREET	R1-1	30" x 30"	5.18	---	1	---	1	1	
16	"	R1-1	30" x 30"	5.18	---	1	---	1	1	
17	USH 10, N. OF KOHLER STREET	R2-1	---	---	---	---	---	1	1	30 MPH
18	HICKORY STREET	R1-1	30" x 30"	5.18	---	1	---	1	1	
19	"	R1-1	30" x 30"	5.18	---	1	---	1	1	
20	USH 10 N. OF HICKORY STREET	R2-1	24" x 30"	5.00	---	1	---	1	1	30 MPH
21	"	W14-3	48" x 36"	---	6.00	---	1	1	1	
21A	"	R2-1	24" x 30"	5.00	---	1	---	---	---	30 MPH
21B	"	S5-2	24" x 30"	5.00	---	---	---	---	---	MOUNT BELOW SIGN 21A
21AC	"	S5-2	---	---	---	---	---	1	---	
22	"	S1-1	36" x 36"	---	9.00	---	1	1	1	
23	"	W16-9P	24" x 8"	---	1.33	---	---	---	---	MOUNT BELOW SIGN 22, PART OF SIGN 22 REMOVAL
23A	"	R2-6P	24" x 18"	3.00	---	---	---	---	---	MOUNT BELOW SIGN 23, PART OF SIGN 22 REMOVAL
24	"	S4-51	24" x 48"	---	8.00	---	1	1	1	20 MPH
25	"	S1-1	36" x 36"	---	9.00	---	1	1	1	
26	"	W16-7L	24" x 12"	---	2.00	---	---	---	---	MOUNT BELOW SIGN 25, PART OF SIGN 25 REMOVAL
27	"	S1-1	36" x 36"	---	9.00	---	1	1	1	
28	"	W16-7L	24" x 12"	---	2.00	---	---	---	---	MOUNT BELOW SIGN 27, PART OF SIGN 27 REMOVAL
29	PINE STREET	R1-1	30" x 30"	5.18	---	---	1	1	1	
30	"	S1-1	36" x 36"	---	9.00	---	1	1	1	
31	"	W16-7L	24" x 12"	---	2.00	---	---	---	---	MOUNT BELOW SIGN 30, PART OF SIGN 30 REMOVAL
32	USH 10, N. OF PINE STREET	S1-1	36" x 36"	---	9.00	---	1	1	1	
33	"	W16-7L	24" x 12"	---	2.00	---	---	---	---	MOUNT BELOW SIGN 32, PART OF SIGN 32 REMOVAL
	PAGE SUBTOTALS			89.44	83.33	10	14	26	25	

ERECTION OF TYPE II SIGNS AND SUPPORTS

SIGN NO.	LOCATION	SIGN CODE	W X H	637.2210 SIGNS TYPE II REFLECTIVE H S.F.	637.2230 SIGNS TYPE II REFLECTIVE F S.F.	634.0614 POSTS WOOD 4x6x14 EACH	634.0616 POSTS WOOD 4x6x16 EACH	638.2602 REMOVING TYPE II SIGNS EACH	638.3000 REMOVING SMALL SIGN SUPPORTS EACH	REMARKS
34	USH 10, N. OF PINE STREET	R2-1	24" X 30"	5.00	---	---	1	1	1	30 MPH
34A	"	S5-2	24" X 30"	5.00	---	---	---	---	---	MOUNT BELOW SIGN 34
35	"	S4-51	---	---	---	---	---	1	1	
35A		S4-51	24" X 48"	---	8.00	---	---	---	---	20 MPH
36	"	J1-1	24" X 39"	6.50	---	---	---	1	1	JCT CTH S, MOUNT TO UTILITY POLE
37	"	W14-3	48" X 36"	---	6.00	---	---	1	---	MOUNT TO UTILITY POLE
38	"	S1-1	36" X 36"	---	9.00	---	---	1	1	
39	"	W16-9P	24" X 8"	---	1.33	---	---	---	---	MOUNT BELOW SIGN 38, PART OF SIGN 38 REMOVAL
39A	"	R2-6P	24" X 18"	3.00	---	---	---	---	---	MOUNT BELOW SIGN 39, PART OF SIGN 39 REMOVAL
40	OAK STREET	R1-1	30" X 30"	5.18	---	---	---	1	1	
41	ELM STREET	R1-1	30" X 30"	5.18	---	1	---	1	1	
42	USH 10, N. OF ELM STREET	R7-51R	---	---	---	---	---	1	1	
43	"	J4-1	24" X 36"	6.00	---	---	1	---	---	WEST USH 10
44	"	R2-1	24" X 30"	5.00	---	1	---	1	1	30 MPH, REMOVE J4-1
44A	"	R2-1	---	---	---	---	---	1	1	
45	"	W11-8	30" X 30"	---	6.25	1	---	1	1	
46	"	R7-51R	18" X 24"	3.00	---	---	---	---	---	MOUNT BELOW SIGN 45
47		R7-51R	---	---	---	---	---	1	1	
48	"	J13-1	24" X 45"	7.50	---	---	1	1	1	CTH S RT, SEE PLAN SHEET
49	CHERRY STREET	R1-1	30" X 30"	5.18	---	---	1	1	1	
50	USH 10, N. OF CHERRY STREET	J13-1	24" X 45"	7.50	---	---	1	1	1	CTH S LT, SEE PLAN SHEET
51	CHERRY STREET	R1-1	36" X 36"	7.46	---	1	---	1	1	
52	"	J13-1	24" X 45"	7.50	---	---	1	1	1	USH 10 LT&RT
53	"	R1-1	36" X 36"	7.46	---	1	---	1	1	JCT USH 10
54	USH 10, N. OF CHERRY STREET	R2-1	24" X 30"	5.00	---	1	---	1	1	30 MPH
55	"	R2-1	24" X 30"	5.00	---	1	---	1	1	30 MPH
56	"	J4-1	24" X 36"	6.00	---	---	1	---	---	EAST USH 10
57	"	J1-1	24" X 39"	6.50	---	---	1	1	1	JCT CTH S
58	"	W11-8	30" X 30"	---	6.25	1	---	1	1	
59	CHESTNUT LANE	R1-1	30" X 30"	5.18	---	1	---	1	1	
60	USH 10, N. OF CHESTNUT LANE	R2-1	24" X 30"	5.00	---	1	---	1	1	55 MPH
61	"	R2-1	24" X 30"	5.00	---	1	---	1	1	30 MPH
	PAGE SUBTOTALS			124.14	36.83	11	8	25	24	
	PROJECT TOTALS			**213.58**	**120.16**	**21**	**22**	**51**	**49**	

TRAFFIC CONTROL SUMMARY

LOCATION	APPROX. SERVICE PERIOD DAYS	643.0300 DRUMS NO. IN SERVICE*	643.0300 DRUMS DAYS	643.0410 BARRICADES TYPE II NO IN. SERVICE	643.0410 BARRICADES TYPE II DAYS	643.0420** BARRICADES TYPE III NO. IN SERVICE*	643.0420** BARRICADES TYPE III DAYS	643.0705** WARNING LIGHTS TYPE A NO. IN SERVICE*	643.0705** WARNING LIGHTS TYPE A DAYS	643.0900 SIGNS NO. IN SERVICE*	643.0900 SIGNS DAYS	REMARKS
USH 10	67	--	--	--	--	2	134	4	268	3	201	MAINLINE CLOSURE AT WEST LIMITS
USH 10	67	--	--	--	--	2	134	4	268	3	201	MAINLINE CLOSURE AT EAST LIMITS
HEMPTON LAKE ROAD	67	--	--	--	--	4	268	8	536	6	402	SIDEROAD CLOSURE
MARIE STREET	67	--	--	--	--	2	134	4	268	2	134	SIDEROAD CLOSURE
KOHLER STREET	67	--	--	--	--	4	268	8	536	4	268	SIDEROAD CLOSURE
HICKORY STREET	67	--	--	--	--	4	268	8	536	5	335	SIDEROAD CLOSURE
PINE STREET	67	--	--	--	--	2	134	4	268	3	201	SIDEROAD CLOSURE
OAK STREET	67	--	--	--	--	2	134	4	268	3	201	SIDEROAD CLOSURE
ELM STREET	67	--	--	--	--	2	134	4	268	2	134	SIDEROAD CLOSURE
CHERRY STREET (CTH S)	67	--	--	--	--	4	268	8	536	6	402	SIDEROAD CLOSURE
CHESTNUT LANE	67	--	--	--	--	2	134	4	268	2	134	SIDEROAD CLOSURE
PEDESTRIAN ACCOMMODATIONS	67	30	2,010	16	1,072					24	1,608	USED THROUGHOUT PROJECT AT INTERSECTION LOCATIONS
MISCELLANEOUS	67	145	9,715	--	--	3	201	60	4,020	--	--	USED THROUGHOUT PROJECT FOR MAINLINE CLOSURE WHILE PERFORMING STORM SEWER WORK
TOTAL 0010		11,725		1,072		2,211		8,040		4,221		

* FOR INFORMATION ONLY
** ADDITIONAL QUANTITIES SHOWN ELSEWHERE

TRAFFIC CONTROL PEDESTRIAN ACCOMMODATION

CATEGORY	LOCATION	644.1430.S TEMPORARY PEDESTRIAN SURFACE PLATE SF	644.1601.S TEMPORARY CURB RAMP EA	644.1616.S TEMPORARY PEDESTRIAN SAFETY FENCE LF	REMARKS
0010	USH 10/SIDEROADS	950.0	38.0		UTILIZED AT ALL TEMPORARY CROSS WALKS WHILE INTERSECTIONS ARE UNDER CONSTRUCTION
0010	USH 10/SIDEROADS			900.0	UTILIZED ALONG SIDEWALK DURING STORM SEWER CONSTRUCTION
TOTAL 0010		950	38	900	

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TRAFFIC CONTROL DETOUR SIGN SUMMARY

SIGN NO.	LOCATION	SIGN CODE	SIZE W X H	NUMBER IN SERVICE	APPROX. SERVICE PERIOD 75 DAYS	643.3000 DETOUR SIGNS DAYS	643.0420 BARRICADES TYPE III DAYS	643.0705 WARNING LIGHTS TYPE A DAYS	643.1000 SIGNS FIXED MESSAGE SF	643.1050 SIGNS PORTABLE CHANGEABLE MESSAGE DAYS	NO OF CYCLES	643.0910 COVERING SIGNS TYPE I EACH	643.0920 COVERING SIGNS TYPE II EACH	REMARKS
1	I-43 SB, COVER EXISTING TYPE I SIGN AS SHOWN			1	75						1	1		COVER "10"
2	I-43 SB, COVER EXISTING TYPE I SIGN AS SHOWN			1	75						1	1		COVER "WEST 10" AND "APPLETON"
3	I-43 SB, N. OF STH 310, PLACE 1/2 MILE N. OF EXIT RAMP TO US 10/STH 310	M 3-4	36"X18"	1	75	75								
	"	M 1-4	36"X36"	1	75	75								10
	"	W 20-2A	48"X48"	1	75	75								
4	I-43 SB, N. OF STH 310, PLACE ACROSS FROM SIGN #3 IN MEDIAN	M 3-4	36"X18"	1	75	75								
	"	M 1-4	36"X36"	1	75	75								10
	"	W 20-2A	48"X48"	1	75	75								
4A	I-43 SB, N. OF STH 310, PLACE 1/4 MILE N. OF EXIT RAMP TO US 10/STH 310	FMS	132"X72"	1	75				66					SEE SIGN DETAIL SHEET
4B	I-43 SB, N. OF STH 310, PLACE ACROSS FROM SIGN #4A IN MEDIAN	FMS	132"X72"	1	75				66					SEE SIGN DETAIL SHEET
5	I-43 SB, COVER EXISTING TYPE I SIGN AS SHOWN			1	75						1	1		COVER "WEST 10" AND "APPLETON"
6	I-43 SB, AT US 10/STH 310 OFF-RAMP, PLACE ADJACENT TO EXISTING TYPE I SIGN	MO 4-8	36"X18"	1	75	75								
	"	M 3-4	36"X18"	1	75	75								
	"	M 1-4	36"X36"	1	75	75								10
	"	MO 6-1	30"X30"	1	75	75								AHEAD
7	I-43 SB, AT STH 310 OFF-RAMP, PLACE ACROSS FROM SIGN #6	MO 4-8	36"X18"	1	75	75								
	"	M 3-4	36"X18"	1	75	75								
	"	M 1-4	36"X36"	1	75	75								10
	"	MO 6-1	30"X30"	1	75	75								AHEAD
8	I-43 SB OFF-RAMP TO US 10/STH 310, COVER EXISTING J3-1 AS SHOWN			1	75						1		1	COVER "WEST 10 RT"
9	US 10, W. OF I-43, COVER EXISTING J4-1 AS SHOWN			1	75						1		1	COVER "WEST 10"
10	US 10, W. OF I-43, PLACE TYPE III BARRICADE ON SHOULDER 100' W. OF RAMP INTERSECTION	R 11-3	60"X30"	1	75	75	75	150						4.5 MILES AHEAD
11	"	MO 4-9L	30"X24"	1	75	75								
12	US 10 ON-RAMP TO I-43 SB, PLACE 150' S. OF RAMP INTERSECTION	MO 4-8	24"X12"	1	75	75								
	"	M 3-4	24"X12"	1	75	75								
	"	M 1-4	24"X24"	1	75	75								10
	"	MO 6-1	21"X21"	1	75	75								AHEAD
13	STH 310, E. OF I-43, PLACE 550' W. OF WAGON WHEEL RD	M 3-4	24"X12"	1	75	75								
	"	M 1-4	24"X24"	1	75	75								10
	"	W 20-2A	48"X48"	1	75	75								
14	STH 310, E. OF I-43, COVER EXISTING J1-3 AS SHOWN			1	75						1		1	COVER "JCT 10"
15	STH 310, E. OF I-43, COVER EXISTING D1-3 AS SHOWN			1	75						1		1	COVER "APPLETON"
16	STH 310, BETWEEN I-43 RAMPS, PLACE LEFT OF EXISTING J2-2 SIGN	MO 4-8	24"X12"	1	75	75								
	"	M 3-4	24"X12"	1	75	75								
	"	M 1-4	24"X24"	1	75	75								10
	"	MO 5-1L	21"X21"	1	75	75								
17	I-43 NB OFF-RAMP TO US 10/STH 310, COVER EXISTING J3-1 SIGN AS SHOWN			1	75						1		1	COVER "WEST 10 LT"
18	US 10, BETWEEN I-43 RAMPS, PLACE LEFT OF EXISTING D1-1 SIGN	MO 4-8	24"X12"	1	75	75								
	"	M 3-4	24"X12"	1	75	75								
	"	M 1-4	24"X24"	1	75	75								10
	"	MO 6-1	21"X21"	1	75	75								LEFT
	PAGE SUBTOTALS			41		2,325	75	150	132	0		3	5	

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TRAFFIC CONTROL DETOUR SIGN SUMMARY

SIGN NO.	LOCATION	SIGN CODE	SIZE W X H	NUMBER IN SERVICE	APPROX. SERVICE PERIOD 75 DAYS	643.3000 DETOUR SIGNS DAYS	643.0420 BARRICADES TYPE III DAYS	643.0705 WARNING LIGHTS TYPE A DAYS	643.1000 SIGNS FIXED MESSAGE SF	643.1050 SIGNS PORTABLE CHANGEABLE MESSAGE DAYS	NO OF CYCLES	643.0910 COVERING SIGNS TYPE I EACH	643.0920 COVERING SIGNS TYPE II EACH	REMARKS
19	I-43 NB, AT US 10/STH 310 INTERCHANGE, COVER EXISTING TYPE I SIGN AS SHOWN			1	75						1	1		
20	US 10, PLACE ON SHOULDER, E. OF CHESTNUT LN, FIELD DETERMINE EXACT LOCATION	PCMS		1	75					7				PLACE 7 DAYS PRIOR TO CLOSURE
20A	US 10, E. OF CHESTNUT LN, PLACE IN ROADWAY	R 11-4	60"X30"	1	75	75	75	150						
21	CTH J, AT US 10, MODIFY EXISTING J13-2 AS SHOWN	M 3-4	24"X12"	1	75	75								
	"	MO 6-1	21"X21"	1	75	75								LEFT
21A	US 10, AT CTH J, PLACE IN ROADWAY	R 11-3	60"X30"	1	75	75	75	150						1.2 MILES AHEAD
22	CTH J, AT US 10, MODIFY EXISTING J13-2 AS SHOWN	M 3-4	24"X12"	1	75	75								
	"	MO 6-1	21"X21"	1	75	75								
23	US 10, AT CTH G, PLACE IN ROADWAY	R 11-3	60"X30"	1	75	75	75	150						3.3 MILES AHEAD
24	CTH G, AT US 10, MODIFY EXISTING J13-1 AS SHOWN	M 3-4	24"X12"	1	75	75								
	"	MO 6-1	21"X21"	1	75	75								RIGHT
25	US 10, NEAR PLEASANT VIEW RD, PLACE ON SHOULDER, FIELD DETERMINE EXACT LOCATION	PCMS		1	75					7				PLACE 7 DAYS PRIOR TO CLOSURE
26	US 10, E. OF CTH W, COVER EXISTING J4-1 SIGN AS SHOWN			1	75						1		1	COVER "EAST 10"
27	CTH W, S. OF US 10, MODIFY EXISTING J13-1 SIGN AS SHOWN	M 3-4	24"X12"	1	75	75								
	"	MO 6-1	21"X21"	1	75	75								
28	US 10, E. OF CTH W, PLACE TYPE III BARRICADE ON SHOULDER	R 11-3	60"X30"	1	75	75	75	150						6.5 MILES AHEAD
29	CTH W, N. OF US 10, MODIFY EXISTING J13-1 SIGN AS SHOWN	M 3-4	24"X12"	1	75	75								
	"	MO 6-1	21"X21"	1	75	75								RIGHT
30	US 10, W. OF CTH W, PLACE RIGHT OF EXISTING J13-1 SIGN	MO 4-8	24"X12"	1	75	75								
	"	M 3-2	24"X12"	1	75	75								
	"	M 1-4	24"X24"	1	75	75								10
	"	MO 5-1R	21"X21"	1	75	75								
31A	US 10, W. OF CTH W, PLACE 1000' W. OF CTH W INTERSECTION	FMS	78"X48"	1	75				26					SEE SIGN DETAIL SHEET
32	US 10, W. OF CTH W, PLACE 1500' W. OF CTH W INTERSECTION	W 20-2A	48"X48"	1	75	75								
33	CTH W, S. OF US 10, PLACE RIGHT OF EXISTING R2-1 SIGN	MO 4-8	24"X12"	1	75	75								
	"	M 3-2	24"X12"	1	75	75								
	"	M 1-4	24"X24"	1	75	75								
34	CTH W, S. OF US 10, COVER EXISTING J3-3 SIGN AS SHOWN			1	75						1		1	COVER "EAST US 10 RT"
35	CTH W, S. OF US 10, MODIFY EXISTING J1-1 AS SHOWN	M 4-8A	24"X18"	1	75	75								
36	CTH W, N. OF HILLTOP RD, PLACE 100' N. OF HILLTOP RD	MO 4-8	24"X12"	1	75	75								
	"	M 3-4	24"X12"	1	75	75								
	"	M 1-4	24"X24"	1	75	75								10
37	CTH W, N. OF HILLTOP RD, PLACE 100' N. OF HILLTOP RD	MO 4-8	24"X12"	1	75	75								
	"	M 3-2	24"X12"	1	75	75								
	"	M 1-4	24"X24"	1	75	75								10
38	CTH W, N. OF CTH JJ, PLACE 100' N. OF CTH JJ	MO 4-8	24"X12"	1	75	75								
	"	M 3-4	24"X12"	1	75	75								
	"	M 1-4	24"X24"	1	75	75								10
39	CTH W, S. OF CTH JJ, PLACE 100' S. OF CTH JJ	MO 4-8	24"X12"	1	75	75								
	"	M 3-2	24"X12"	1	75	75								
	"	M 1-4	24"X24"	1	75	75								10
40	CTH W, N. OF MARSH RD, PLACE 100' N. OF MARSH RD	MO 4-8	24"X12"	1	75	75								
	"	M 3-4	24"X12"	1	75	75								
	"	M 1-4	24"X24"	1	75	75								10
41	CTH W, S. OF MARSH RD, PLACE 100' S. OF MARSH RD	MO 4-8	24"X12"	1	75	75								
	"	M 3-2	24"X12"	1	75	75								
	"	M 1-4	24"X24"	1	75	75								10
	PAGE SUBTOTALS			51		3,375	300	600	26	14		1	2	

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TRAFFIC CONTROL DETOUR SIGN SUMMARY

SIGN NO.	LOCATION	SIGN CODE	SIZE W X H	NUMBER IN SERVICE	APPROX. SERVICE PERIOD 75 DAYS	643.3000 DETOUR SIGNS DAYS	643.0420 BARRICADES TYPE III DAYS	643.0705 WARNING LIGHTS TYPE A DAYS	643.1000 SIGNS FIXED MESSAGE SF	643.1050 SIGNS PORTABLE CHANGEABLE MESSAGE DAYS	NO OF CYCLES	643.0910 COVERING SIGNS TYPE I EACH	643.0920 COVERING SIGNS TYPE II EACH	REMARKS
42	CTH W, N. OF US 151, PLACE 500' N. OF US 151 INTERSECTION	MO 4-8	24"X12"	1	75	75								
	"	M 3-2	24"X12"	1	75	75								
	"	M 1-4	24"X24"	1	75	75								10
	"	MO 5-1L	21"X21"	1	75	75								
43	CTH W, N. OF US 151, PLACE 100' N. OF US 151 INTERSECTION	MO 4-8	24"X12"	1	75	75								
	"	M 3-4	24"X12"	1	75	75								
	"	M 1-4	24"X24"	1	75	75								10
44	CTH W, AT US 151 INTERSECTION, PLACE RIGHT OF EXISTING J13-1 SIGN	MO 4-8	24"X12"	1	75	75								
	"	M 3-2	24"X12"	1	75	75								
	"	M 1-4	24"X24"	1	75	75								10
	"	MO 6-1	21"X21"	1	75	75								LEFT
45	US 151, W. OF CTH W, PLACE 1500' W. OF CTH W INTERSECTION	M 3-2	24"X12"	1	75	75								
	"	M 1-4	24"X24"	1	75	75								10
	"	W 20-2A	48"X48"	1	75	75								
46	US 151, AT CTH W INTERSECTION, PLACE 100' W. OF CTH W	MO 4-8	24"X12"	1	75	75								
	"	M 3-2	24"X12"	1	75	75								
	"	M 1-4	24"X24"	1	75	75								10
	"	MO 6-1	21"X21"	1	75	75								AHEAD
47	US 151, AT CTH W INTERSECTION, PLACE RIGHT OF EXISTING J13-1 SIGN	MO 4-8	24"X12"	1	75	75								
	"	M 3-4	24"X12"	1	75	75								
	"	M 1-4	24"X24"	1	75	75								10
	"	MO 6-1	21"X21"	1	75	75								RIGHT
48	US 151, E. OF CTH W INTERSECTION, PLACE 150' E. OF CTH W	MO 4-8	24"X12"	1	75	75								
	"	M 3-2	24"X12"	1	75	75								
	"	M 1-4	24"X24"	1	75	75								10
49	US 151, E. OF CTH W INTERSECTION, PLACE 500' E. OF CTH W	MO 4-8	24"X12"	1	75	75								
	"	M 3-4	24"X12"	1	75	75								
	"	M 1-4	24"X24"	1	75	75								10
	"	MO 5-1R	21"X21"	1	75	75								
50	US 151, W. OF CTH A, PLACE 100' W. OF CTH A INTERSECTION	MO 4-8	24"X12"	1	75	75								
	"	M 3-4	24"X12"	1	75	75								
	"	M 1-4	24"X24"	1	75	75								10
51	US 151, E. OF CTH A, PLACE 100' E. OF CTH A INTERSECTION	MO 4-8	24"X12"	1	75	75								
	"	M 3-2	24"X12"	1	75	75								
	"	M 1-4	24"X24"	1	75	75								10
52	US 151, W. OF CTH J, PLACE 100' W. OF CTH J INTERSECTION	MO 4-8	24"X12"	1	75	75								
	"	M 3-4	24"X12"	1	75	75								
	"	M 1-4	24"X24"	1	75	75								
53	US 151, E. OF CTH J, PLACE 100' E. OF CTH J INTERSECTION	MO 4-8	24"X12"	1	75	75								
	"	M 3-2	24"X12"	1	75	75								
	"	M 1-4	24"X24"	1	75	75								
54	US 151, W. OF CTH S, PLACE 100' W. OF CTH S INTERSECTION	MO 4-8	24"X12"	1	75	75								
	"	M 3-4	24"X12"	1	75	75								
	"	M 1-4	24"X24"	1	75	75								10
55	US 151, E. OF CTH S, PLACE 100' E. OF CTH S INTERSECTION	MO 4-8	24"X12"	1	75	75								
	"	M 3-2	24"X12"	1	75	75								
	"	M 1-4	24"X24"	1	75	75								10
	PAGE SUBTOTALS			47		3,525	0	0	0	0		0	0	

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TRAFFIC CONTROL DETOUR SIGN SUMMARY

SIGN NO.	LOCATION	SIGN CODE	SIZE W X H	NUMBER IN SERVICE	APPROX. SERVICE PERIOD 75 DAYS	643.3000 DETOUR SIGNS DAYS	643.0420 BARRICADES TYPE III DAYS	643.0705 WARNING LIGHTS TYPE A DAYS	643.1000 SIGNS FIXED MESSAGE SF	643.1050 SIGNS PORTABLE CHANGEABLE MESSAGE DAYS	NO OF CYCLES	643.0910 COVERING SIGNS TYPE I EACH	643.0920 COVERING SIGNS TYPE II EACH	REMARKS
56	US 151, W. OF ALVERNO RD, PLACE 100' W. OF ALVERNO RD	MO 4-8	24"X12"	1	75	75								
	"	M 3-4	24"X12"	1	75	75								
	"	M 1-4	24"X24"	1	75	75								10
57	US 151, E. OF ALVERNO RD, PLACE 100' E. OF ALVERNO RD	MO 4-8	24"X12"	1	75	75								
	"	M 3-2	24"X12"	1	75	75								
	"	M 1-4	24"X24"	1	75	75								10
58	US 151, W. OF STH 42, PLACE 100' W. OF STH 42 INTERSECTION	MO 4-8	24"X12"	1	75	75								
	"	M 3-2	24"X12"	1	75	75								
	"	M 1-4	24"X24"	1	75	75								10
	"	MO 6-1	21"X21"	1	75	75								AHEAD
59	US 151, E. OF STH 42, PLACE 100' E. OF STH 42 INTERSECTION	MO 4-8	24"X12"	1	75	75								
	"	M 3-4	24"X12"	1	75	75								
	"	M 1-4	24"X24"	1	75	75								10
	"	MO 6-1	21"X21"	1	75	75								AHEAD
60	US 151, AT I-43 SB RAMP INTERSECTION, PLACE IN FRONT OF FAR RIGHT SIGNAL IN SE QUAD	MO 4-8	24"X12"	1	75	75								
	"	M 3-2	24"X12"	1	75	75								
	"	M 1-4	24"X24"	1	75	75								10
	"	MO 5-1L	21"X21"	1	75	75								
61	US 151, AT I-43 SB RAMP INTERSECTION, PLACE IN MEDIAN, MOUNT ABOVE R3-20L SIGN	MO 4-8	24"X12"	1	75	75								
	"	M 3-4	24"X12"	1	75	75								
	"	M 1-4	24"X24"	1	75	75								10
	"	MO 6-1	21"X21"	1	75	75								AHEAD
62	US 151, AT I-43 NB RAMP INTERSECTION, PLACE IN MEDIAN, MOUNT ABOVE R3-20L SIGN	MO 4-8	24"X12"	1	75	75								
	"	M 3-2	24"X12"	1	75	75								
	"	M 1-4	24"X24"	1	75	75								10
	"	MO 6-1	21"X21"	1	75	75								LEFT
63	US 151, E. OF I-43 NB RAMP INTERSECTION, PLACE ACROSS FROM EXISTING J2-3	MO 4-8	24"X12"	1	75	75								
	"	M 3-4	24"X12"	1	75	75								
	"	M 1-4	24"X24"	1	75	75								10
	"	MO 6-1	21"X21"	1	75	75								AHEAD
64	US 151, W. OF STH 42/CTH R INTERSECTION, PLACE 250' W. OF STH 42/CTH R	MO 4-8	24"X12"	1	75	75								
	"	M 3-4	24"X12"	1	75	75								
	"	M 1-4	24"X24"	1	75	75								10
	"	MO 6-1	21"X21"	1	75	75								AHEAD
65	US 151, W. OF STH 42/CTH R INTERSECTION, PLACE 250' W. OF STH 42/CTH R IN MEDIAN	MO 4-8	24"X12"	1	75	75								
	"	M 3-4	24"X12"	1	75	75								
	"	M 1-4	24"X24"	1	75	75								10
	"	MO 6-1	21"X21"	1	75	75								AHEAD
66	US 151, E. OF STH 42/CTH R INTERSECTION, PLACE 500' E. OF STH 42/CTH R	M 3-4	24"X12"	1	75	75								
	"	M 1-4	24"X24"	1	75	75								10
	"	W 20-2A	48"X48"	1	75	75								
67	US 151, E. OF STH 42/CTH R INTERSECTION, PLACE 500' E. OF STH 42/CTH R IN MEDIAN	M 3-4	24"X12"	1	75	75								
	"	M 1-4	24"X24"	1	75	75								10
	"	W 20-2A	48"X48"	1	75	75								
68	I-43 NB OFF-RAMP TO US 151, AT US 151 INTERSECTION, PLACE 100' PRIOR TO INTERSECTION	MO 4-8	24"X12"	1	75	75								
	"	M 3-4	24"X12"	1	75	75								
	"	M 1-4	24"X24"	1	75	75								10
	"	MO 6-1	21"X21"	1	75	75								LEFT
69	I-43 NB OFF-RAMP TO US 151, S. OF US 151 INTERSECTION, PLACE RIGHT OF EXISTING D1-3 SIGN	MO 4-8	24"X12"	1	75	75								
	"	M 3-4	24"X12"	1	75	75								
	"	M 1-4	24"X24"	1	75	75								10
	"	MO 5-1L	21"X21"	1	75	75								
PAGE SUBTOTALS				52		3,900	0	0	0	0		0	0	

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TRAFFIC CONTROL DETOUR SIGN SUMMARY

SIGN NO.	LOCATION	SIGN CODE	SIZE W X H	NUMBER IN SERVICE	APPROX. SERVICE PERIOD 75 DAYS	643.3000 DETOUR SIGNS DAYS	643.0420 BARRICADES TYPE III DAYS	643.0705 WARNING LIGHTS TYPE A DAYS	643.1000 SIGNS FIXED MESSAGE SF	643.1050 SIGNS PORTABLE CHANGEABLE MESSAGE DAYS	NO OF CYCLES	643.0910 COVERING SIGNS TYPE I EACH	643.0920 COVERING SIGNS TYPE II EACH	REMARKS
70	I-43, AT US 151 RAMP DIVERGE, PLACE ADJACENT TO EXISTING TYPE I SIGN	MO 4-8	36"X18"	1	75	75								
	"	M 3-4	36"X18"	1	75	75								
	"	M 1-4	36"X36"	1	75	75								10
	"	MO 5-2R	30"X30"	1	75	75								
71	I-43, AT US 151 RAMP DIVERGE, PLACE ACROSS FROM SIGN #70 IN MEDIAN	MO 4-8	36"X18"	1	75	75								
	"	M 3-4	36"X18"	1	75	75								
	"	M 1-4	36"X36"	1	75	75								10
	"	MO 5-2R	30"X30"	1	75	75								
72	I-43, S. OF VIEBAHN ST, PLACE 300' S. OF VIEBAHN ST OVERPASS	MO 4-8	36"X18"	1	75	75								
	"	M 3-4	36"X18"	1	75	75								
	"	M 1-4	36"X36"	1	75	75								10
	"	MO 5-2R	30"X30"	1	75	75								
73	I-43, S. OF VIEBAHN ST, PLACE 300' S. OF VIEBAHN ST OVERPASS	MO 4-8	36"X18"	1	75	75								
	"	M 3-4	36"X18"	1	75	75								
	"	M 1-4	36"X36"	1	75	75								10
	"	MO 5-2R	30"X30"	1	75	75								
74	I-43, S. OF VIEBAHN ST, PLACE 1500' S. OF VIEBAHN ST OVERPASS	FMS	132"X72"	1	75									SEE SIGN DETAIL SHEET
75	I-43, S. OF VIEBAHN ST, PLACE 1500' S. OF VIEBAHN ST OVERPASS IN MEDIAN	FMS	132"X72"	1	75									SEE SIGN DETAIL SHEET
76	I-43, S. OF VIEBAHN ST, PLACE 1/2 MILE S. OF VIEBAHN ST OVERPASS	M 3-4	36"X18"	1	75	75								
	"	M 1-4	36"X36"	1	75	75								10
	"	W 20-2A	48"X48"	1	75	75								
77	I-43, S. OF VIEBAHN ST, PLACE 1/2 MILE S. OF VIEBAHN ST OVERPASS IN MEDIAN	M 3-4	36"X18"	1	75	75								
	"	M 1-4	36"X36"	1	75	75								10
	"	W 20-2A	48"X48"	1	75	75								
78	I-43 SB OFF-RAMP TO US 151, AT RAMP INTERSECTION, PLACE 350' PRIOR TO RAMP INTERSECTION	MO 4-8	24"X12"	1	75	75								
	"	M 3-4	24"X12"	1	75	75								
	"	M 1-4	24"X24"	1	75	75								10
	"	MO 6-1	21"X21"	1	75	75								RIGHT
79	I-43 SB OFF-RAMP TO US 151, PLACE 1000' PRIOR TO RAMP INTERSECTION	MO 4-8	24"X12"	1	75	75								
	"	M 3-4	24"X12"	1	75	75								
	"	M 1-4	24"X24"	1	75	75								10
	"	MO 5-1R	21"X21"	1	75	75								
80	US 151 ON-RAMP TO I-43 NB, PLACE 150' N. OF RAMP INTERSECTION	MO 4-8	24"X12"	1	75	75								
	"	M 3-2	24"X12"	1	75	75								
	"	M 1-4	24"X24"	1	75	75								10
81	I-43, AT US 151 OFF-RAMP, PLACE ADJACENT TO EXISTING TYPE I SIGN	MO 4-8	36"X18"	1	75	75								
	"	M 3-4	36"X18"	1	75	75								
	"	M 1-4	36"X36"	1	75	75								10
	"	MO 6-2	30"X30"	1	75	75								TILT RIGHT
82	I-43, S. OF CUSTER ST, PLACE 1/4 MILE S. OF CUSTER ST UNDERPASS	MO 4-8	36"X18"	1	75	75								
	"	M 3-4	36"X18"	1	75	75								
	"	M 1-4	36"X36"	1	75	75								
	"	MO 5-2R	30"X30"	1	75	75								
83	I-43, S. OF CUSTER ST, PLACE 1/4 MILE S. OF CUSTER ST UNDERPASS IN MEDIAN	MO 4-8	36"X18"	1	75	75								
	"	M 3-4	36"X18"	1	75	75								
	"	M 1-4	36"X36"	1	75	75								10
	"	MO 5-2R	30"X30"	1	75	75								
84	I-43, N. OF CUSTER ST, PLACE ADJACENT TO ADVANCED TYPE I SIGN FOR US 10/STH 42 EXIT	M 4-8A	30"X24"	1	75	75								
	"	M 3-2	36"X18"	1	75	75								
	"	M 1-4	36"X36"	1	75	75								10
85	I-43, N. OF CUSTER ST, PLACE ACROSS FROM SIGN #84 IN MEDIAN	M 4-8A	30"X24"	1	75	75								
	"	M 3-2	36"X18"	1	75	75								
	"	M 1-4	36"X36"	1	75	75								10
	PAGE SUBTOTALS			53		3,825	0	0	0	0		0	0	

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TRAFFIC CONTROL DETOUR SIGN SUMMARY

SIGN NO.	LOCATION	SIGN CODE	SIZE W X H	NUMBER IN SERVICE	APPROX. SERVICE PERIOD 75 DAYS	643.3000 DETOUR SIGNS DAYS	643.0420 BARRICADES TYPE III DAYS	643.0705 WARNING LIGHTS TYPE A DAYS	643.1000 SIGNS FIXED MESSAGE SF	643.1050 SIGNS PORTABLE CHANGEABLE MESSAGE DAYS	NO OF CYCLES	643.0910 COVERING SIGNS TYPE I EACH	643.0920 COVERING SIGNS TYPE II EACH	REMARKS
86	I-43, N. OF CUSTER ST, PLACE ON EXISTING TYPE I SIGN AS SHOWN	G 20-60	108"X24"	1	75	75								
87	US 10/STH 42, E. OF I-43, PLACE 1/4 MILE FROM I-43 NB RAMP INTERSECTION	M 3-4	24"X12"	1	75	75								
	"	M 1-4	24"X24"	1	75	75								10
	"	W 20-2A	48"X48"	1	75	75								
88	US 10/STH 42, E. OF I-43, PLACE ACROSS FROM SIGN #87 IN MEDIAN	M 3-4	24"X12"	1	75	75								
	"	M 1-4	24"X24"	1	75	75								10
	"	W 20-2A	48"X48"	1	75	75								
89	US 10/STH 42, E. OF I-43, MODIFY EXISTING J2-4 SIGN AS SHOWN	MO 4-8	24"X12"	1	75	75								
	"	MO 6-1	21"X21"	1	75	75								AHEAD
90	US 10/STH 42, E. OF I-41, PLACE ACROSS FROM SIGN #89	MO 4-8	24"X12"	1	75	75								
	"	M 3-4	24"X12"	1	75	75								
	"	M 1-4	24"X24"	1	75	75								10
	"	MO 6-1	21"X21"	1	75	75								AHEAD
91	US 10/STH 42, AT I-43 NB RAMP INTERSECTION, COVER EXISTING J3-2 AS SHOWN			1	75						1		1	COVER "WEST 10 RT"
92	US 10/STH 42, AT I-43 NB RAMP INTERSECTION, COVER EXISTING D1-70 AS SHOWN			1	75						1	1		COVER "WEST 10", "APPLETON"
93	US 10/STH 42, BETWEEN I-43 RAMPS, PLACE AT LEFT TURN TAPER POINT IN MEDIAN	MO 4-8	24"X12"	1	75	75								
	"	M 3-4	24"X12"	1	75	75								
	"	M 1-4	24"X24"	1	75	75								10
	"	MO 5-1L	21"X21"	1	75	75								
94	I-43, N. OF US 10/STH 42 INTERCHANGE, COVER EXISTING J4-2 AS SHOWN			1	75						1		1	COVER "WEST 10"
95	I-43, S. OF CTH P OVERPASS, COVER EXISTING TYPE I SIGN AS SHOWN			1	75						1	1		COVER "WEST 10", "APPLETON"
96	I-43, N. OF US 10/STH 42 INTERCHANGE, PLACE 500' N. OF OFF-RAMP DIVERGE POINT	MO 4-8	36"X18"	1	75	75								
	"	M 3-4	36"X18"	1	75	75								
	"	M 1-4	36"X36"	1	75	75								10
	"	MO 6-1	30"X30"	1	75	75								AHEAD
97	I-43, N. OF US 10/STH 42 INTERCHANGE, PLACE ACROSS FROM SIGN #96 IN MEDIAN	MO 4-8	36"X18"	1	75	75								
	"	M 3-4	36"X18"	1	75	75								
	"	M 1-4	36"X36"	1	75	75								10
	"	MO 6-1	30"X30"	1	75	75								AHEAD
98	US 10/STH 42, AT I-43 SB RAMP INTERSECTION, PLACE ON BACK OF EXISTING R4-7 IN MEDIAN	MO 4-8	24"X12"	1	75	75								
	"	M 3-4	24"X12"	1	75	75								
	"	M 1-4	24"X24"	1	75	75								10
	"	MO 6-1	21"X21"	1	75	75								LEFT
99	US 10/STH 42, AT I-43 SB RAMP INTERSECTION, COVER EXISTING D1-70 AS SHOWN			1	75						1	1		COVER "WEST 10", "APPLETON"
100	CTH JJ, AT I-43 SB RAMP INTERSECTION, PLACE ON BACK OF EXISTING R5-1	MO 4-8	24"X12"	1	75	75								
	"	M 3-4	24"X12"	1	75	75								
	"	M 1-4	24"X24"	1	75	75								10
	"	MO 6-1	21"X21"	1	75	75								RIGHT
101	CTH JJ, W. OF I-43 INTERCHANGE, PLACE 750' W. OF I-43 SB RAMP INTERSECTION	MO 4-8	24"X12"	1	75	75								
	"	M 3-4	24"X12"	1	75	75								
	"	M 1-4	24"X24"	1	75	75								10
	"	MO 5-1R	21"X21"	1	75	75								
102	CTH JJ, W. OF I-43 INTERCHANGE, PLACE 1/4 MILE W. OF I-43 SB RAMP INTERSECTION	M 3-4	24"X12"	1	75	75								
	"	M 1-4	24"X24"	1	75	75								10
	"	W 20-2A	48"X48"	1	75	75								
	PAGE SUBTOTALS			45		3,000	0	0	0	0		3	2	
	PROJECT TOTALS			**289**		**19,950**	**375**	**750**	**158**	**14**		**7**	**9**	

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CONSTRUCTION STAKING

CATEGORY	STATION	TO	STATION	LOCATION	RESURFACING REFERENCE 650.8000 LF	STAKING BASE 650.5000 LF	REMARKS
0010	323+50	-	345+60	USH 10	2210		
0010	345+60	-	356+00	USH 10	1040		
0010	356+00	-	362+00	USH 10	600		
0010	362+00	-	372+00	USH 10	1000		
0010	372+00	-	379+00	USH 10	700		
0010	379+00	-	382+50	USH 10	350		
0010	382+50	-	395+61.49	USH 10	1312		
0010	372+00	-	383+35	USH 10 WB		1135	
				TOTAL 0010	7212	1135	

PAVEMENT MARKING

CATEGORY	STATION	TO	STATION	LOCATION	646.0106 Pavement Marking Epoxy 4-Inch Yellow LF	648.0100 LOCATING NO-PASSING ZONES MI	647.0656 Pavement Marking Parking Stall Epoxy LF	646.2304.S Pavement Marking Grooved Wet Reflective Epoxy 4-Inch White LF	REMARKS
0010	323+50	-	336+50	USH 10				2261	White Edge Lines
0010	323+50	-	345+60	USH 10	3503				Centerlines
0010	345+60	-	356+00	USH 10	410				Centerlines
0010	356+00	-	362+00	USH 10	50				Centerlines
0010	362+00	-	372+00	USH 10	1075				Centerlines
0010	372+00	-	379+00	USH 10	675				Centerlines
0010	379+00	-	382+50	USH 10	88				Centerlines
0010	382+50	-	395+61	USH 10	328				Centerlines
0010	323+50	-	395+61.49	USH 10		1.37			
				TOTAL 0010	6129	1.37	0	2261	
0030	338+00	-	394+00	USH 10			2803		EB Lane/120 Stalls
0030	347+00	-	395+00	USH 10			2474		WB Lane/106 Stalls
				TOTAL 0030	0	0	5277	0	

SAWING ASPHALT

CATEGORY	LOCATION	690.0150 LF	REMARKS
0010	Hempton Lake Rd	28	North
0010	Hempton Lake Rd	28	South
0010	345+60	44	Mainline
0010	Marie St	38	
0010	Kohler St	57	North
0010	Kohler St	35	South
0010	Hickory St	40	North
0010	Hickory St	35	South
0010	Pine St	28	
0010	Oak St	27	
0010	Elm St	35	
0010	CTH S	40	North
0010	CTH S	40	South
0010	Chestnut Ln	40	
	TOTAL 0010	515	

PAVEMENT MARKING CONTINUED

CATEGORY	STATION	LOCATION	647.0766 PAVEMENT MARKING CROSSWALK EPOXY 6-INCH LF	646.2308.S PAVEMENT MARKING GROOVED WET REFLECTIVE EPOXY 8-INCH LF	REMARKS
0010	349+12	USH 10	90		WEST SIDE OF MARIE ST
0010	356+77	USH 10	98		EAST SIDE OF KOHLER ST
0010	362+37	USH 10	100		WEST SIDE OF HICKORY ST
0010	362+84	USH 10	104		EAST SIDE OF HICKORY ST
0010	368+87	USH 10	80		3376' WEST OF PINE ST
0010	372+72	USH 10	95		EAST SIDE OF PINE ST
0010	378+20	USH 10	87		EAST SIDE OF OAK ST
0010	379+64	USH 10	89		WEST SIDE OF ELM ST
0010	382+88	USH 10	100		WEST SIDE OF N. CHERRY ST
0010	383+45	USH 10	94		EAST SIDE OF N. CHERRY ST
0010	387+57	USH 10	80		4090' E OF N. CHERRY ST
0010	394+28	USH 10	90		WEST SIDE OF N. CHERRY ST
0010	392+50	USH 10		154	HEMPTON LAKE RD TURN LANE
		TOTAL 0010	1107	154	

SAWING CONCRETE

CATEGORY	STATION	TO	STATION	LOCATION	690.0250 LF	REMARKS
0010	345+60	-	356+00	USH 10	1116	
0010	356+00	-	362+00	USH 10	1116	
0010	362+00	-	372+00	USH 10	1656	
0010	372+00	-	379+00	USH 10	540	
0010	379+00	-	382+50	USH 10	396	
	382+50		395+61	USH 10	1692	
				TOTAL 0010	6516	
0020	345+60	-	356+00	USH 10	1650	
0020	356+00	-	362+00	USH 10	990	
0020	362+00	-	372+00	USH 10	1540	
0020	372+00	-	379+00	USH 10	484	
0020	379+00	-	382+50	USH 10	220	
0020	382+50		395+61	USH 10	1760	
				TOTAL 0020	6644	

ADJUSTING WATER VALVE BOX

CATEGORY	STATION	LOCATION	SPV.0060.02 EACH	REMARKS
0030	349+26	USH 10 WB	1	
0030	349+60	USH 10 EB	1	
0030	356+07	USH 10 WB	1	
0030	356+42	USH 10 EB	1	
0030		KOHLER ST	1	SB LANE
0030	362+46	USH 10 WB	2	
0030	372+25	USH 10 WB	1	
0030	377+90	OAK ST	1	SB LANE
0030	378+16	USH 10 WB	1	
0030	379+98	ELM ST	1	NB LANE
0030	382+81	USH 10 WB	1	
0030	383+00	CHERRY ST	1	SB LANE
0030	388+22	USH 10 WB	1	
0030	388+53	USH 10 WB	1	
0030	394+37	USH 10 WB	1	
		TOTAL 0030	16	

ABANDONING STORM SEWER 12-INCH TO 24-INCH

CATEGORY	FROM		TO	LOCATION	SPV.0090.01 LF	REMARKS
0010	372+80	-	377+64	USH 10	484	
0010	378+38	-	383+10	USH 10	472	
0010				USH 10	29	Oak St Inlet to Inlet
				TOTAL 0010	984	

ADJUSTING SANITARY MANHOLE COVERS

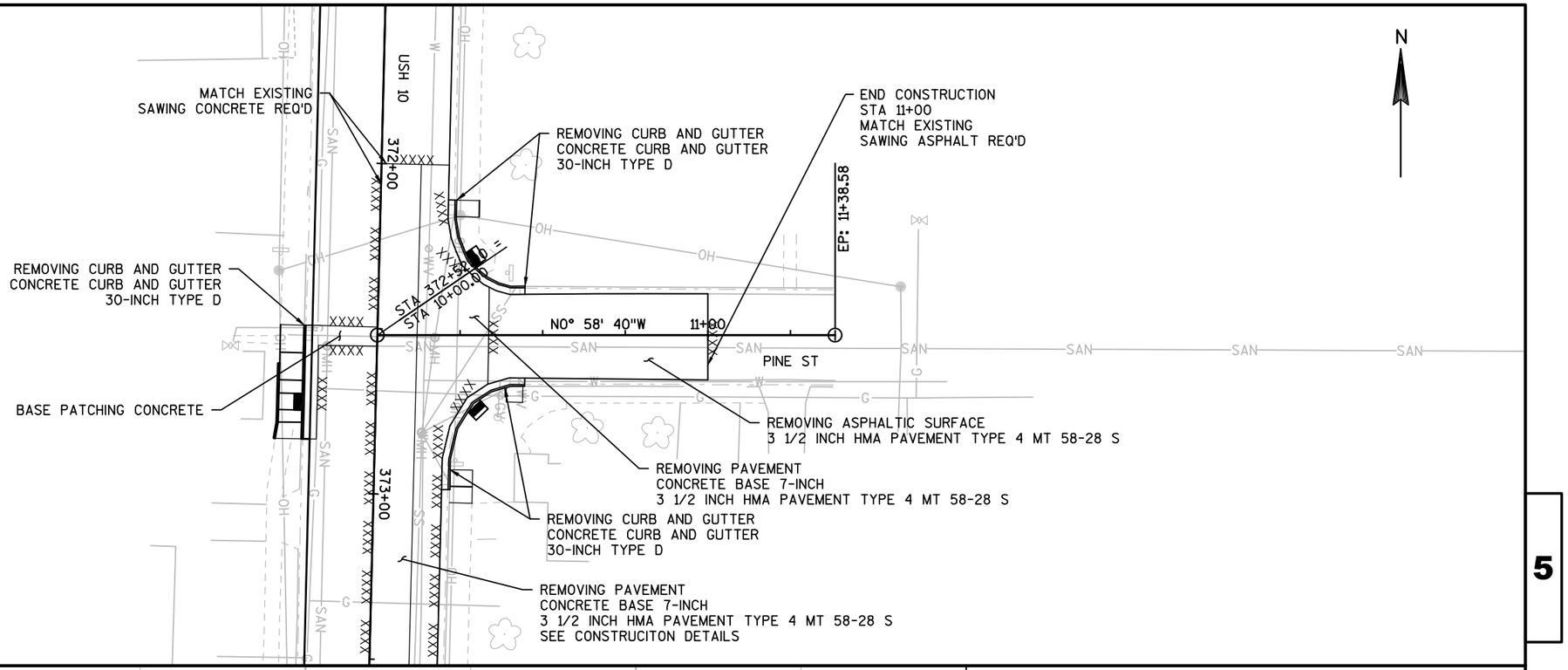
CATEGORY	STATION	LOCATION	SPV.0060.01 EACH	REMARKS
0030	341+29	USH 10 EB	1	SANITARY
0030	345+46	USH 10 EB	1	SANITARY
0030	349+50	USH 10 EB	1	SANITARY
0030	352+57	USH 10 EB	1	SANITARY
0030	356+50	USH 10 EB	1	SANITARY
0030	358+86	USH 10 EB	1	SANITARY
0030	362+60	USH 10 EB	1	SANITARY
0030	366+21	USH 10 EB	1	SANITARY
0030	369+63	USH 10 EB	1	SANITARY
0030	372+56	USH 10 EB	1	SANITARY
0030	375+04	USH 10 EB	1	SANITARY
0030	377+97	USH 10 EB	1	SANITARY
0030	379+75	USH 10 EB	1	SANITARY
0030	383+30	USH 10 EB	1	SANITARY
0030	387+03	USH 10 EB	1	SANITARY
0030	388+54	USH 10 EB	1	SANITARY
0030	391+13	USH 10 EB	1	SANITARY
0030	394+50	USH 10 EB	1	SANITARY
		TOTAL 0030	18	

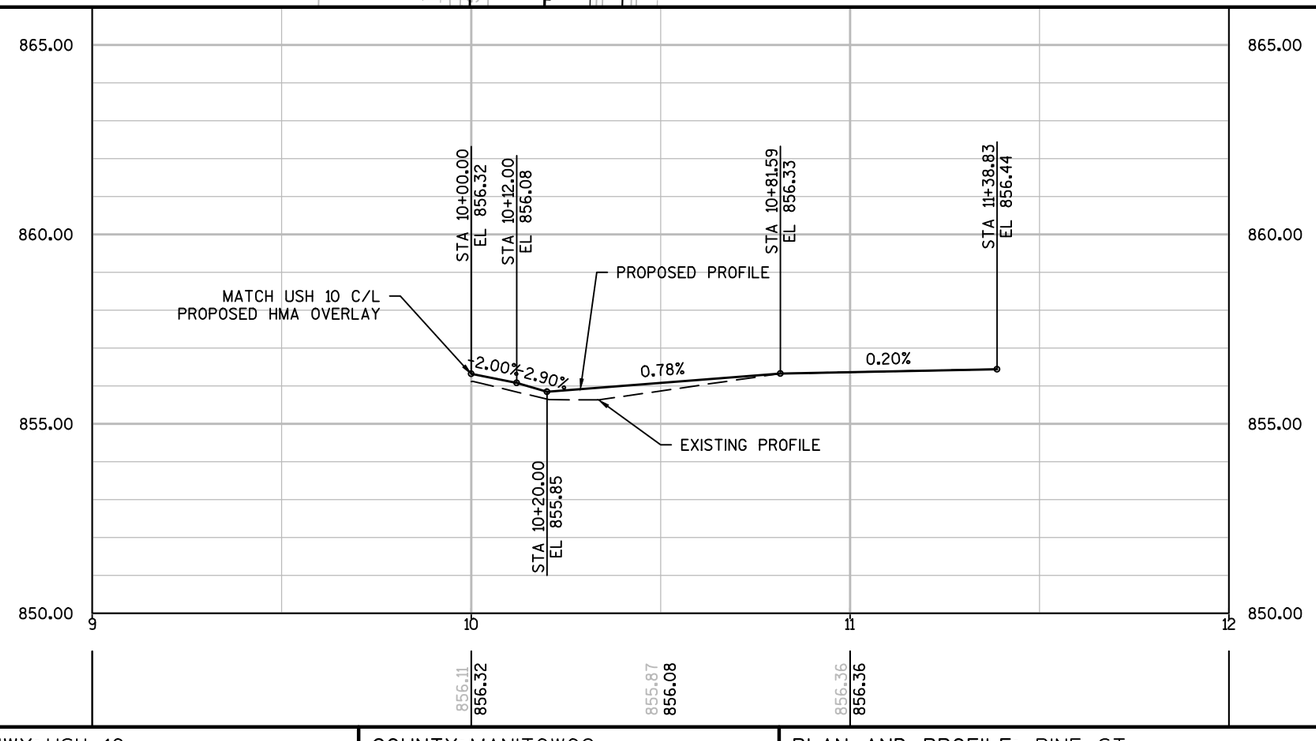
STREET SWEEPING

CATEGORY	LOCATION	SPV.0075.01 HRS	REMARKS
0010	PROJECT	40	UTILIZED FOR ROADWAY CLEANUP DURING STORM SEWER WORK
	TOTAL 0010	40	

REMOVING CONCRETE PAVEMENT MILLING

CATEGORY	STATION	TO	STATION	LOCATION	SPV.0180.01 SY	REMARKS
0010	345+60	-	395+61	LT	3512	Storm Sewer Trench Removed from quantity
0010	345+60	-	395+61	RT	4445	
				TOTAL 0010	7957	



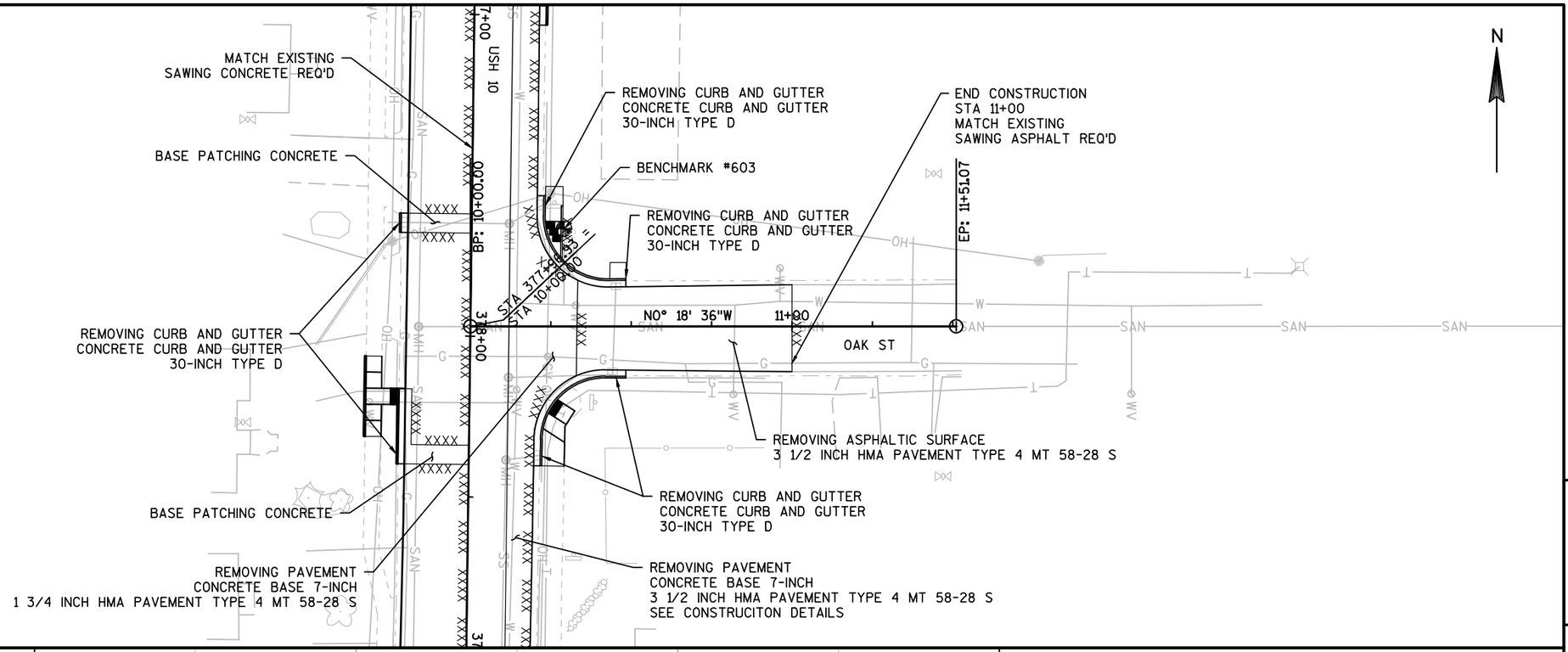


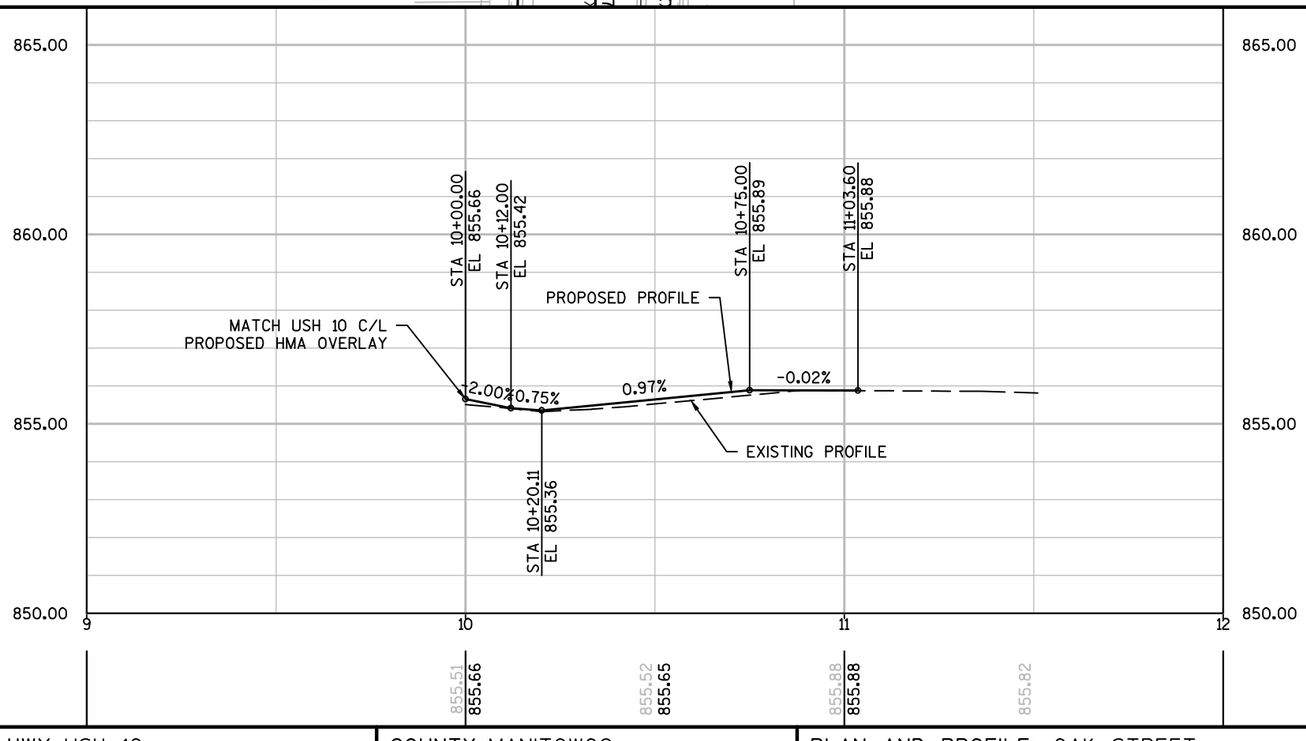
PROJECT NO: 1500-27-71	HWY: USH 10	COUNTY: MANITOWOC	PLAN AND PROFILE: PINE ST	SHEET 79	E

FILE NAME : N:\PDS\C3D\15002700\SHEETSPLAN\050101_PP.DWG
LAYOUT NAME - 050101_PP

PLOT DATE : 3/2/2017 2:30 PM PLOT BY : WALCZYK, BENJAMIN J PLOT NAME : PLOT SCALE : 1 IN:40 FT

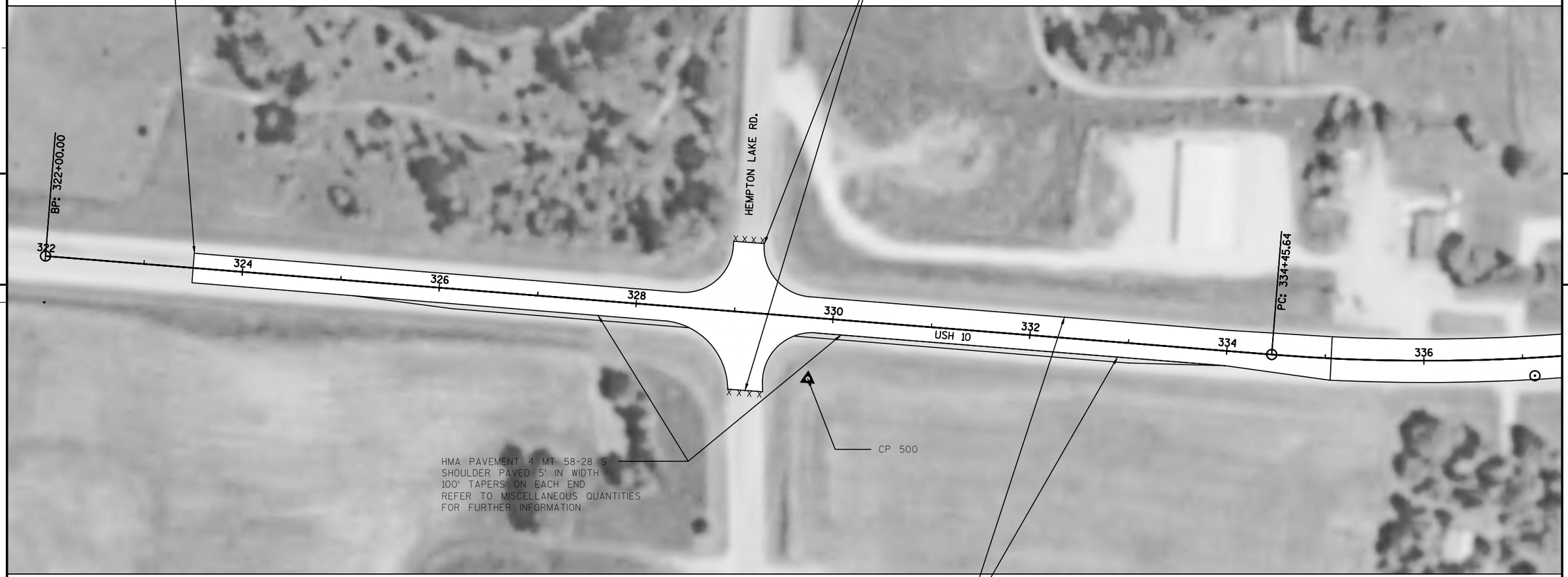
BENCHMARKS			
NO.	STATION	DESCRIPTION	ELEV.
603	377+66 LT	CHISELED "X" ON FIRE HYDRANT	857.87





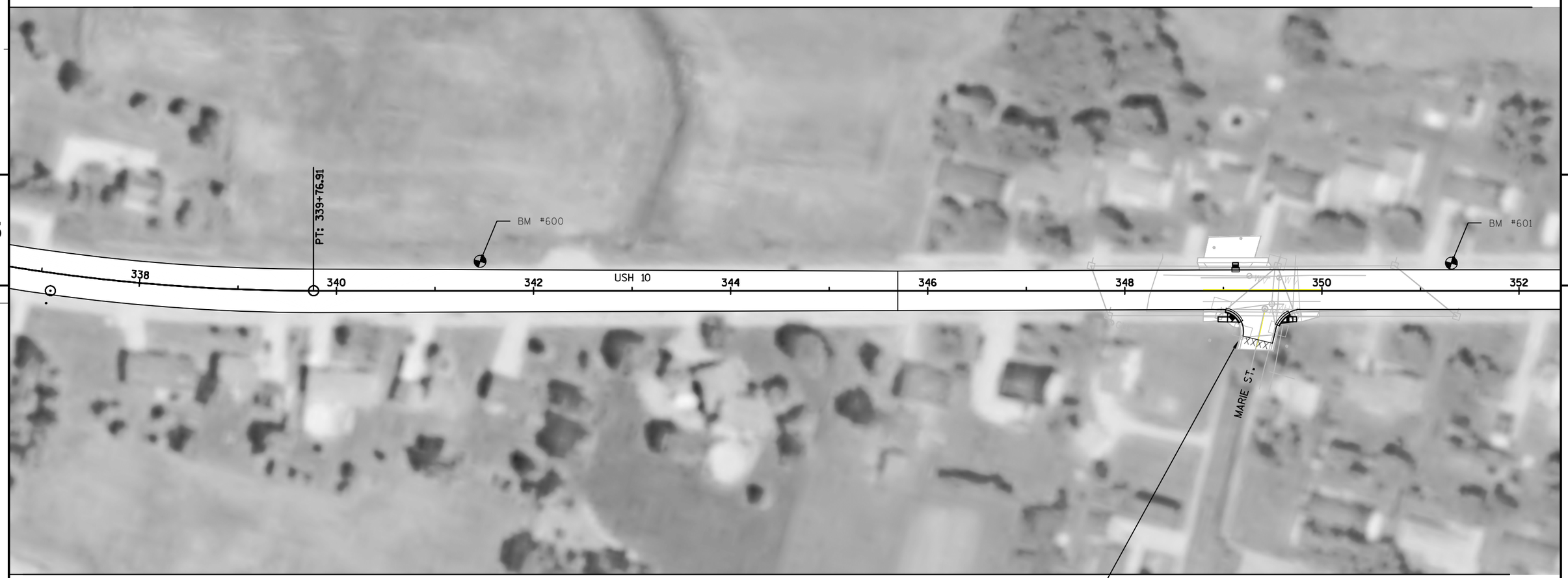
PROJECT NO: 1500-27-71	HWY: USH 10	COUNTY: MANITOWOC	PLAN AND PROFILE: OAK STREET	SHEET 80	E

BENCHMARKS			
NO.	STATION	DESCRIPTION	ELEV.
CP 500	329+79 RT	MONUMENT	859.66



5 5

BENCHMARKS			
NO.	STATION	DESCRIPTION	ELEV.
600	341+45 LT	CHISELED "X" ON FIRE HYDRANT	867.95
601	351+31 LT	CHISELED "X" ON FIRE HYDRANT	863.48



5

5

PROJECT NO: 1500-27-71	HWY: USH 10	COUNTY: MANITOWOC	PLAN SHEETS	SHEET 82	E

BENCHMARKS			
NO.	STATION	DESCRIPTION	ELEV.
602	362+01 LT	CHISELED "X" ON FIRE HYDRANT	852.78
CP 501	362+89 LT	MONUMENT	850.02

5

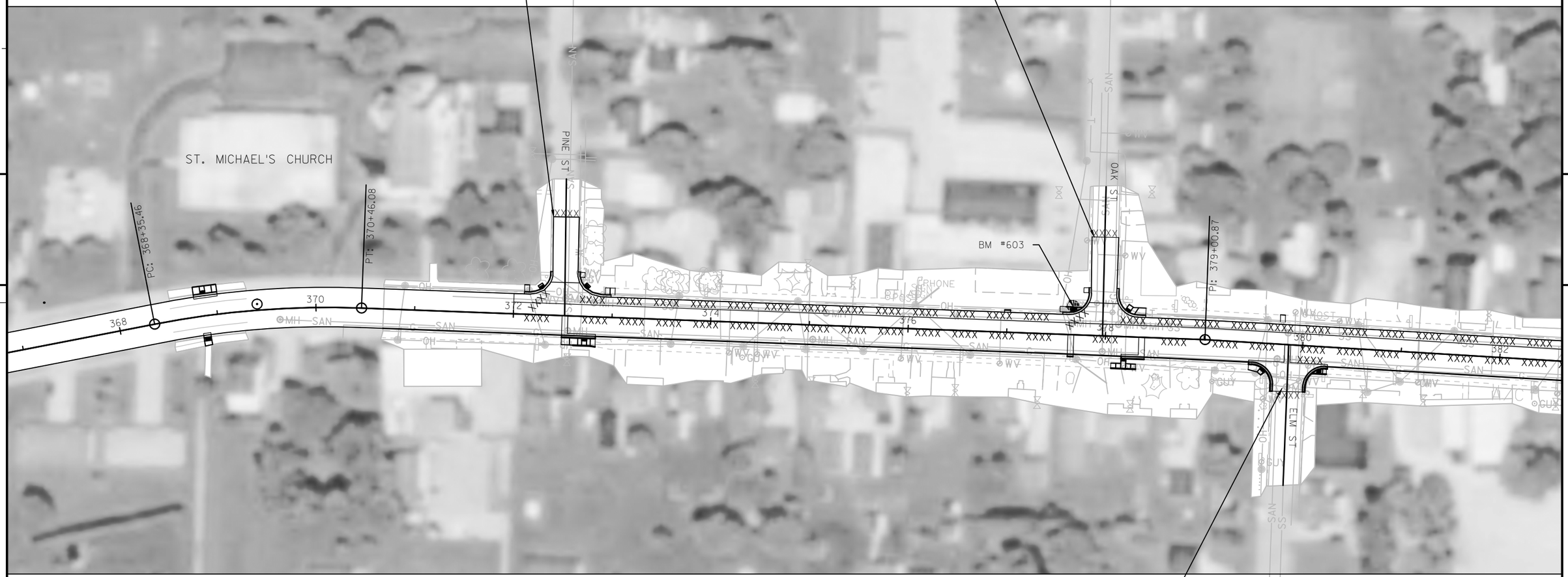
5

PROJECT NO: 1500-27-71	HWY: USH 10	COUNTY: MANITOWOC	PLAN SHEETS	SHEET 83	E

FILE NAME : N:\PDS\C3D\15002700\SHEETSPLAN\050203_PN.DWG PLOT DATE : 3/2/2017 2:33 PM PLOT BY : WALCZYK, BENJAMIN J PLOT NAME : PLOT SCALE : 1:100_XREF

WISDOT/CADDS SHEET 44

BENCHMARKS			
NO.	STATION	DESCRIPTION	ELEV.
603	377+66 LT	CHISELED "X" ON FIRE HYDRANT	857.87

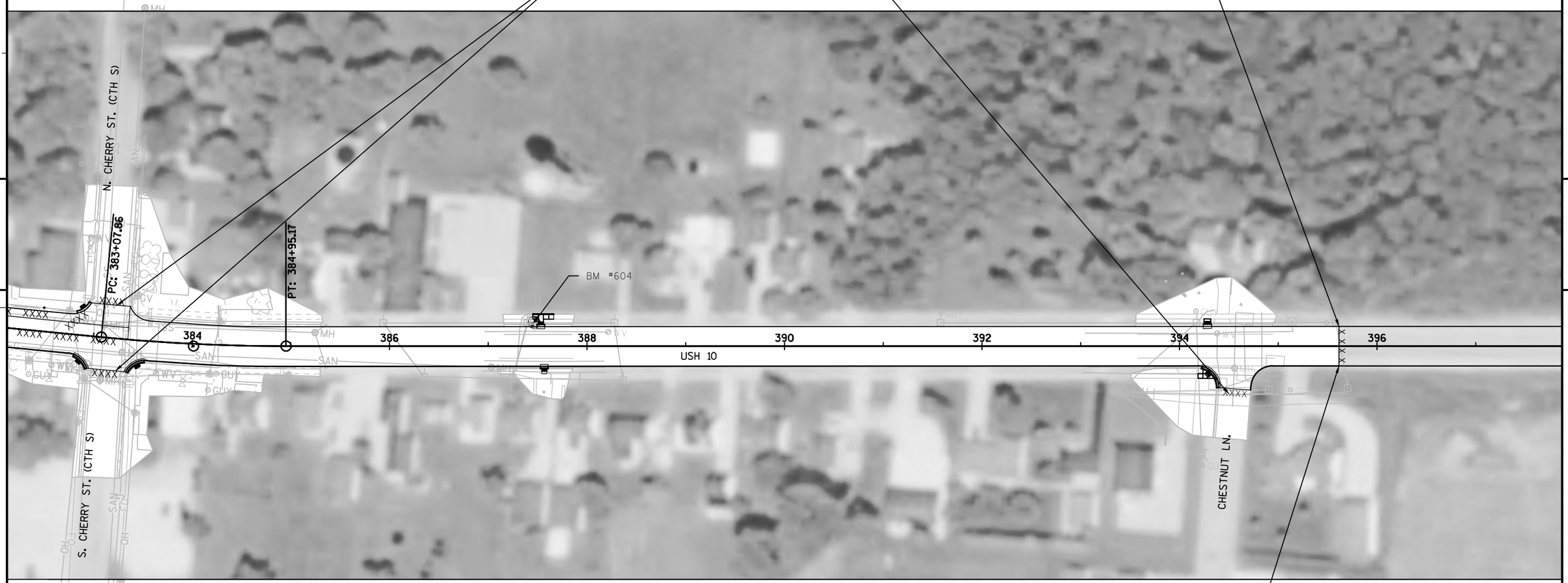


NOTES:

PAVEMENT EDGELINES THAT ARE SHOWN ARE NOT FROM SURVEY AND ARE APPROXIMATE.

A SAWCUT IS REQUIRED WHERE PROPOSED PAVEMENT MATCHES INTO EXISTING PAVEMENT.

BENCHMARKS			
NO.	STATION	DESCRIPTION	ELEV.
604	387+46 LT	CHISELED "X" ON FIRE HYDRANT	860.70

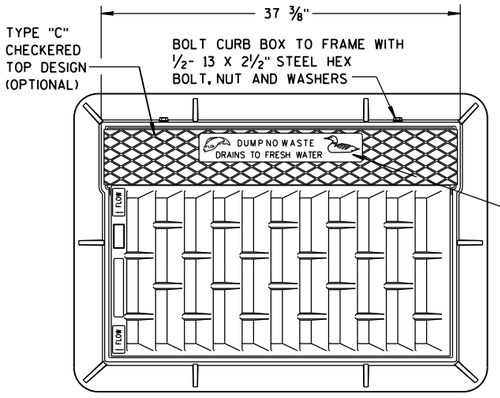


PROJECT NO: 1500-27-71	HWY: USH 10	COUNTY: MANITOWOC	PLAN SHEETS	SHEET 85	E

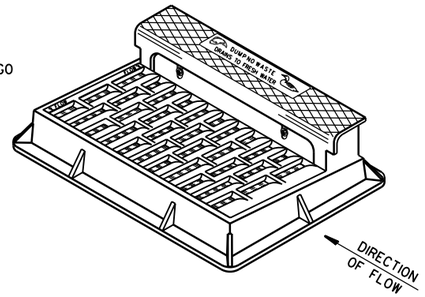
Standard Detail Drawing List

08A05-19A	INLET COVERS TYPE A, H, A-S, H-S & Z
08A05-19D	INLET COVER TYPE BW, MANHOLE COVERS, TYPE K, J, J-S, L & M
08B09-01	MANHOLES 3-FT, 4-FT, 5-FT, 6-FT, 7-FT AND 8-FT DIAMETER
08C07-01	INLETS 2X2-FT, 2X2.5-FT, 2X3-FT AND 2.5X3-FT
08D01-19	CONCRETE CURB, CONCRETE CURB AND GUTTER AND TIES
08D05-18A	CURB RAMPS TYPES 1 AND 1-A
08D05-18B	CURB RAMPS TYPES 2 AND 3
08D05-18C	CURB RAMPS TYPES 4A AND 4A1
08D05-18D	CURB RAMPS TYPE 4B AND 4B1
08D05-18E	CURB RAMPS TYPES 5, 6, 7A, 7B & 8
08E10-02	INLET PROTECTION TYPE A, B, C AND D
08F04-07	JOINT TIES FOR CONCRETE PIPE AND CONCRETE COLLAR DETAIL
13C14-06A	BASE PATCHING CONCRETE
13C14-06B	BASE PATCHING CONCRETE
13C14-06C	BASE PATCHING CONCRETE
13C15-06A	CONCRETE BASE
13C15-06B	CONCRETE BASE
15C02-06A	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-06B	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-06C	DETOUR SIGNING FOR MAINLINE CLOSURES
15C03-03	BARRICADES AND SIGNS FOR SIDEROAD CLOSURES
15C04-03	TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 M.P.H. OR GREATER TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC
15C05-03	TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40 M.P.H. OR LESS
15C08-17A	LONGITUDINAL MARKING (MAINLINE)
15C33-02	STOP LINE AND CROSSWALK PAVEMENT MARKING
15C35-01A	PAVEMENT MARKING (INTERSECTIONS)
15D28-03	TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY
15D30-03A	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
15D30-03B	TRAFFIC CONTROL, TEMPORARY ADA COMPLIANT PEDESTRIAN ACCOMMODATION
15D30-03C	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
15D38-01A	TEMPORARY TRAFFIC CONTROL FIXED MESSAGE SIGNS
15D38-01B	ATTACHMENT OF SIGNS TO POSTS

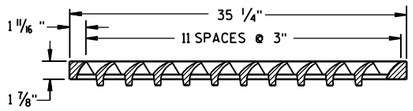
6

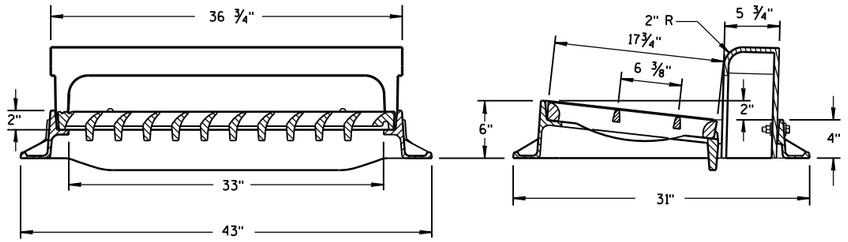


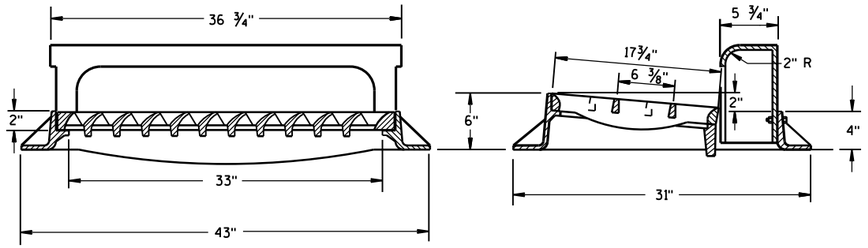
NOTE:
GRATE IS REVERSIBLE.



NOTE: CURB BOX HEIGHT ADJUSTABLE 6" TO 9"

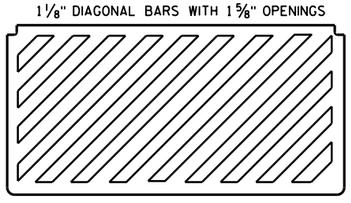






TYPE "H"

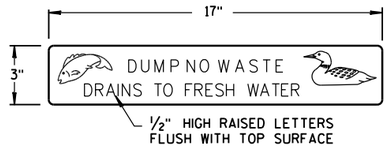
NOTE: EITHER CASTING IS ACCEPTABLE



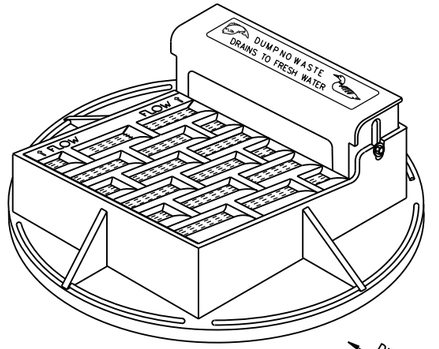
SPECIAL GRATE FOR TYPE "H" COVER

(MEASURES 35 1/4" X 17 3/4" X 2")

(NOTED AS TYPE H-S ON DRAINAGE TABLE)



LOGO DETAIL



NOTE: CURB BOX ADJUSTABLE 4" TO 9"

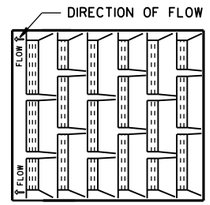
NOTE:
GRATE IS REVERSIBLE.

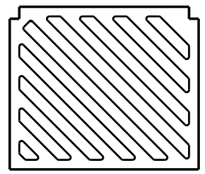
GENERAL NOTES

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.

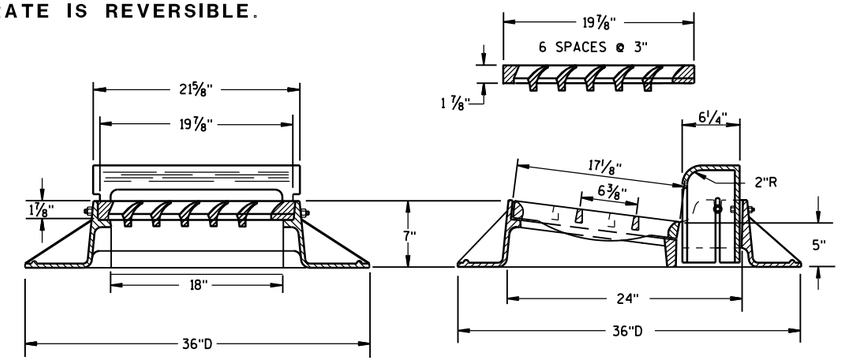




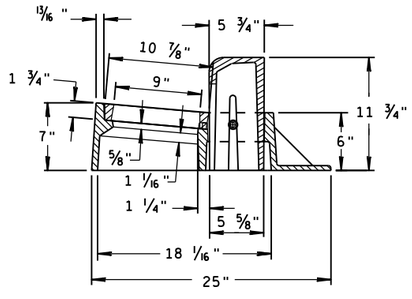
SPECIAL GRATE FOR TYPE "A" COVER

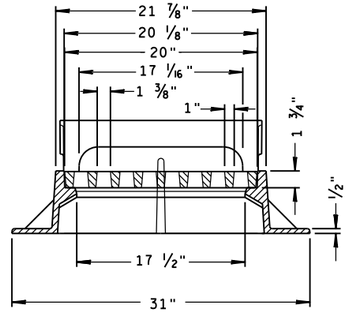
(MEASURES 19 3/4" X 17" X 1 7/8")

(NOTED AS TYPE A-S ON DRAINAGE TABLE)

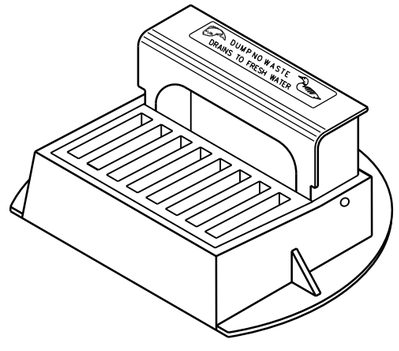


TYPE "A"





TYPE "Z"



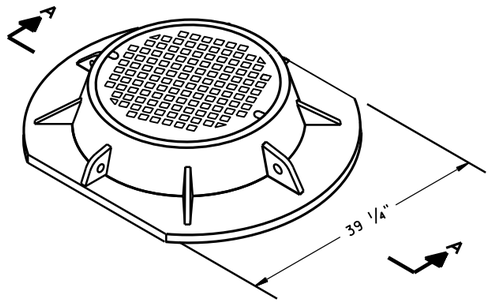
INLET COVERS
TYPE A, H, A-S, H-S & Z

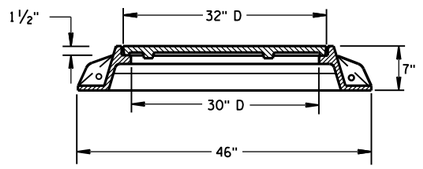
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
11-27-13 — DATE
/S/ Jerry H. Zogg — ROADWAY STANDARDS ENGINEER
FHWA

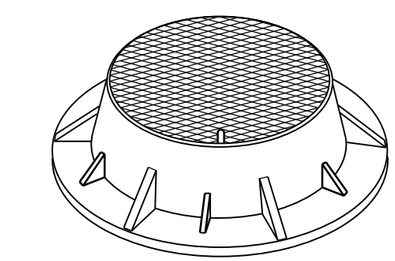
6

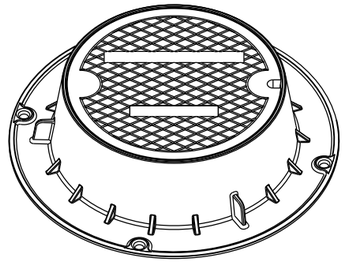
S.D.D. 8 A 5-19a

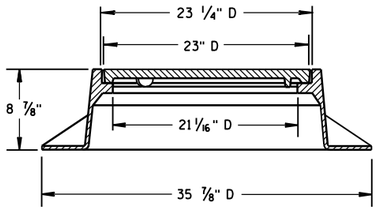


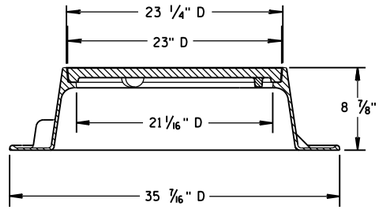


SECTION A-A
TYPE "K"









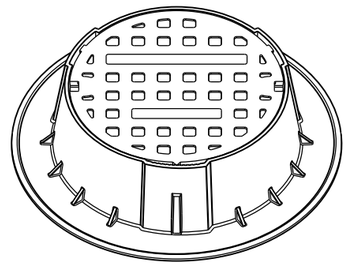
TYPE "J"
NOTE: EITHER CASTING IS ACCEPTABLE

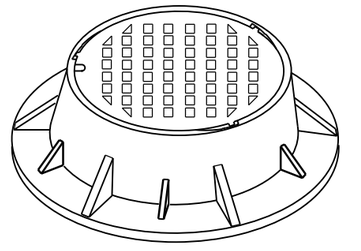
GENERAL NOTES

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.

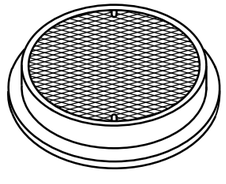
DETAIL DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR MANHOLE COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

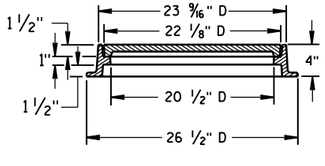
ROUND FRAMES AND COVERS SHALL HAVE CONTINUOUSLY MACHINED BEARING SURFACES TO PREVENT ROCKING AND RATTLING.



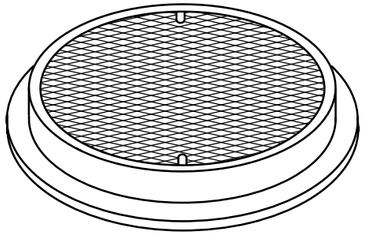


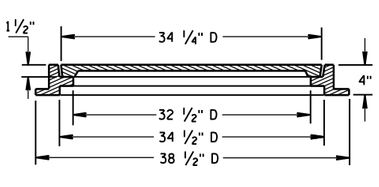
TYPE "J" SPECIAL
TYPE "B" NON-ROCKING SELF-SEAL LID
(NOTED AS TYPE J-S ON THE DRAINAGE TABLE)
NOTE: EITHER CASTING IS ACCEPTABLE



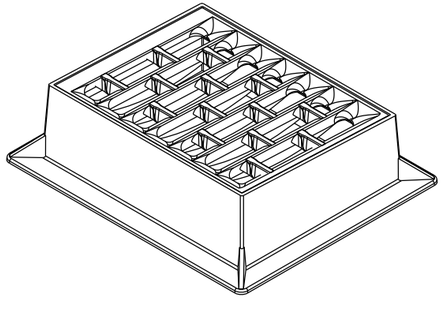


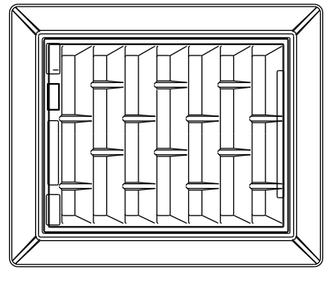
TYPE "L"

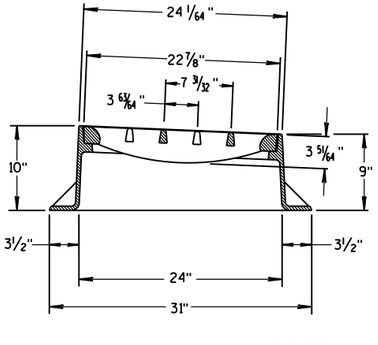


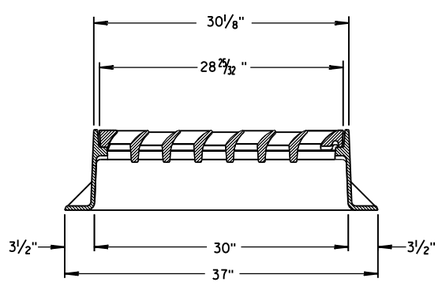


TYPE "M"









INLET COVER TYPE "BW"

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

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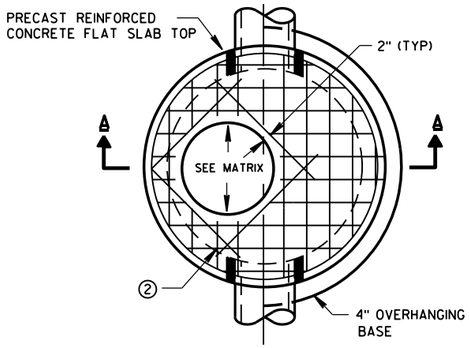
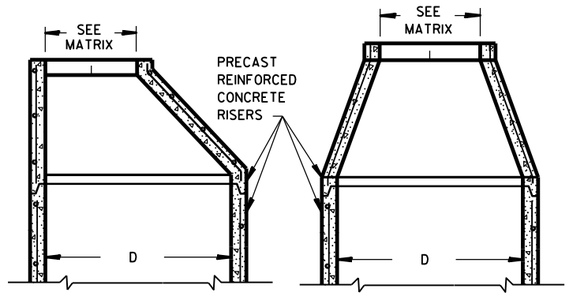
APPROVED
11/27/2013
DATE
/S/ Jerry H. Zogg
ROADWAY STANDARDS DEVELOPMENT ENGINEER
FHWA

6
S.D.D. 8 A 5-19d

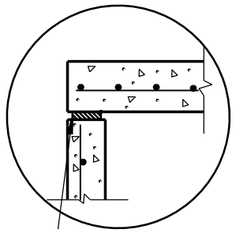


PLAN VIEW CIRCULAR OPENING

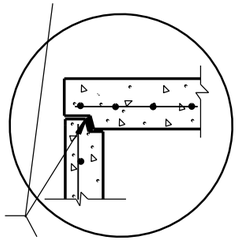


OPTIONAL PRECAST REINFORCED CONCRETE ECCENTRIC TOP

OPTIONAL PRECAST REINFORCED CONCRETE CONCENTRIC TOP

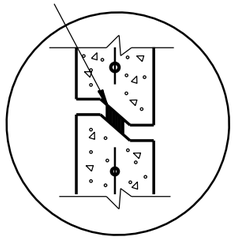


TOP WITH PLAIN END JOINT



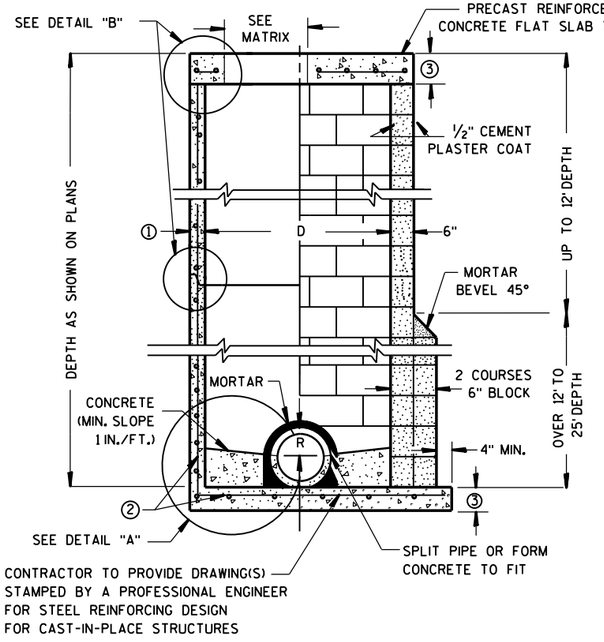
JOINTS TO BE SEALED WITH A BUTYL RUBBER SEAL PER SEALANT MANUFACTURERS RECOMMENDATIONS CONFORMING TO ASTM C990 (TYP)

TOP WITH TONGUE AND GROOVE JOINT



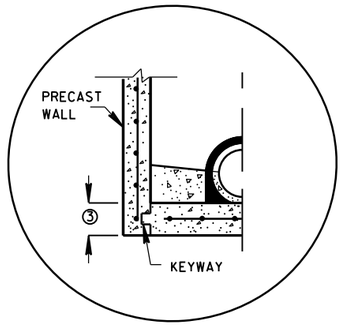
RISER WITH TONGUE AND GROOVE JOINT

DETAIL "B"

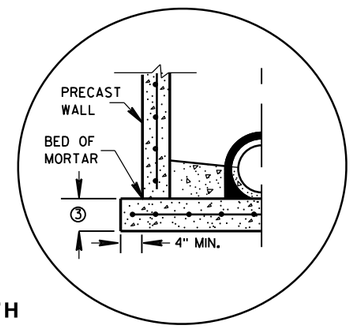


PRECAST REINFORCED CONCRETE WITH MONOLITHIC BASE

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

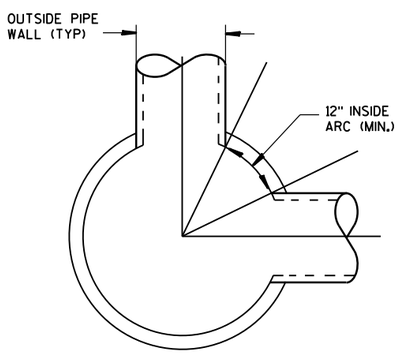


PRECAST REINFORCED CONCRETE WITH INTEGRAL BASE OPTION



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 GRANULAR 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. THE CONE TOPS SHALL BE INSTALLED ON A BED OF MORTAR.

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

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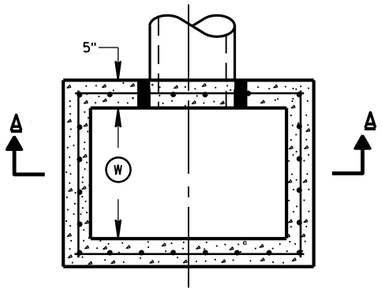
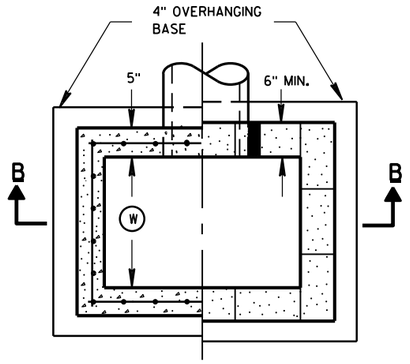
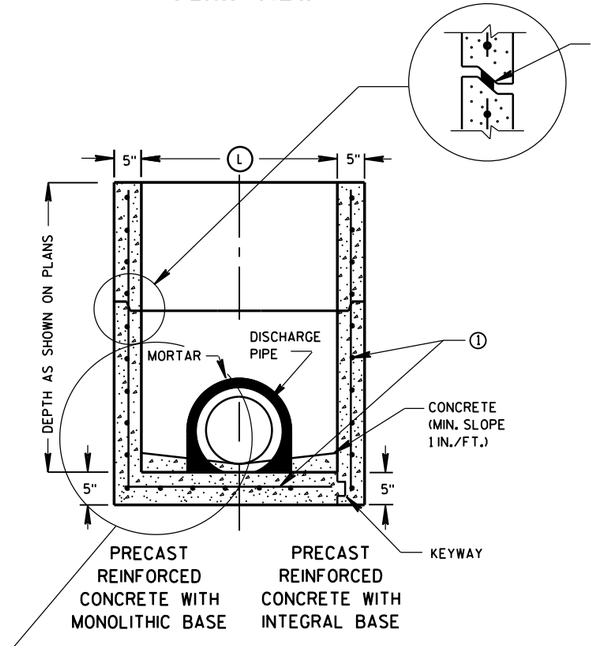
S.D.D. 8 B 9-1



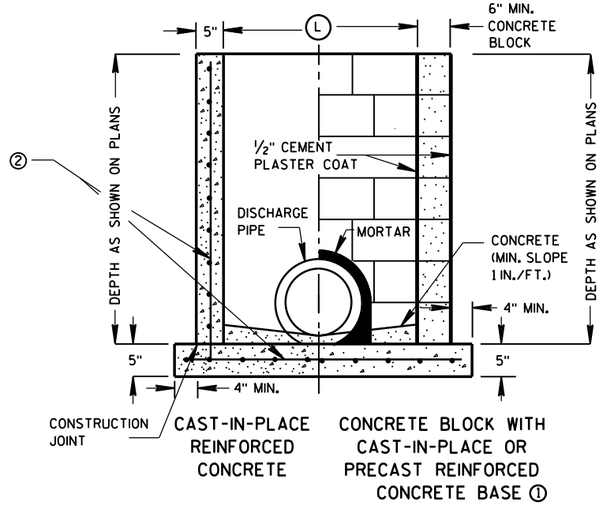
PLAN VIEW



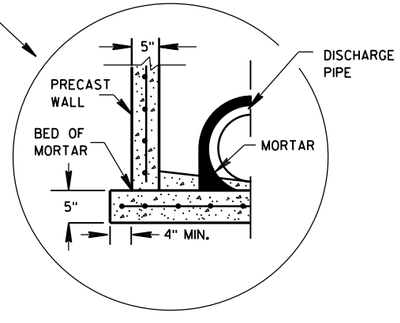
PLAN VIEW



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 GRANULAR 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.

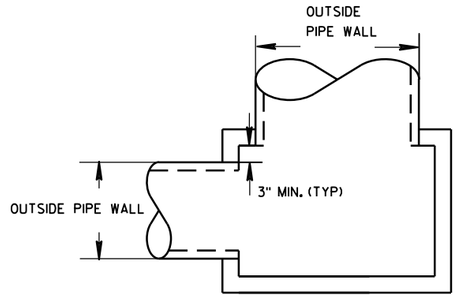
② CONTRACTOR TO PROVIDE DRAWING(S) STAMPED BY A PROFESSIONAL ENGINEER FOR STEEL REINFORCING DESIGN FOR CAST-IN-PLACE STRUCTURES.

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

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6/5/2012
DATE
FHWA

/S/ Jerry H. Zogg
ROADWAY STANDARDS DE
ENGINEER

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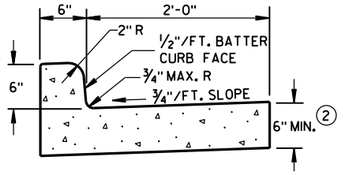
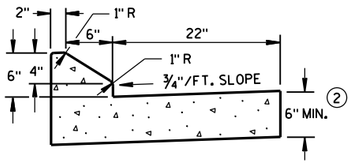
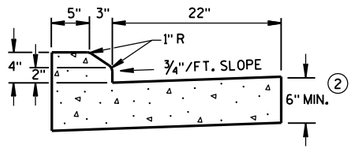
S.D.D. 8 C 7-1



TYPES A & D ①

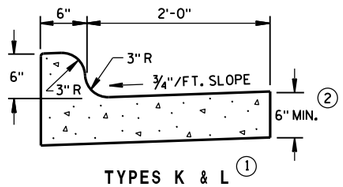


6" SLOPED CURB TYPES G & J ①

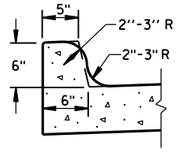


4" SLOPED CURB TYPES G & J ①

CONCRETE CURB & GUTTER 30"

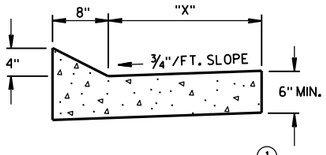


TYPES K & L ①



OPTIONAL CURB SHAPE FOR TYPES K & L ①

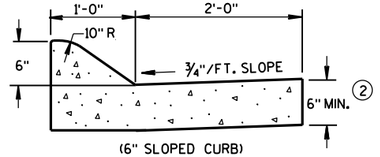
CONCRETE CURB & GUTTER 30"



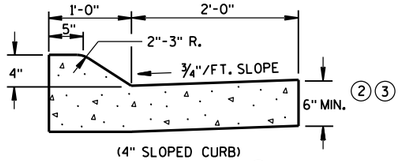
TYPES TBT & TBTT ①

CONCRETE CURB & GUTTER

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

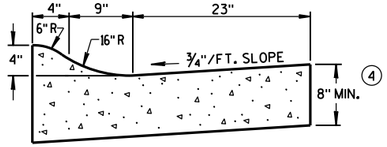


(6" SLOPED CURB)



(4" SLOPED CURB)

TYPES A & D ①



4" SLOPED CURB TYPES R & T ①⑤

CONCRETE CURB & GUTTER 36"

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. A LONGITUDINAL CONSTRUCTION JOINT IS NOT REQUIRED WITH INTEGRAL CURB AND GUTTER.

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.

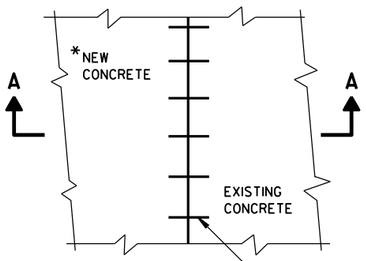
② THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 6" MINIMUM GUTTER THICKNESS IS MAINTAINED.

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.

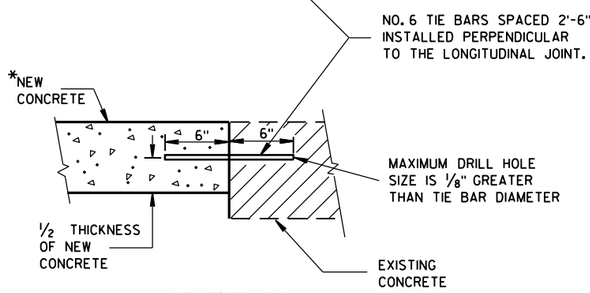
⑤ THE FACE OF CURB IS 6" FROM THE BACK OF CURB.

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



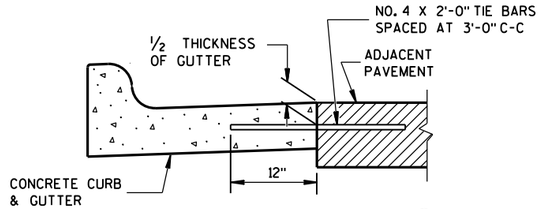
PLAN VIEW

*NEW CURB & GUTTER, SURFACE DRAINS, CONCRETE PAVEMENT OR OTHER NEW CONCRETE.

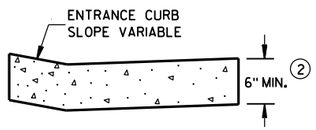


SECTION A-A

TIE BARS DRILLED INTO EXISTING PAVEMENT

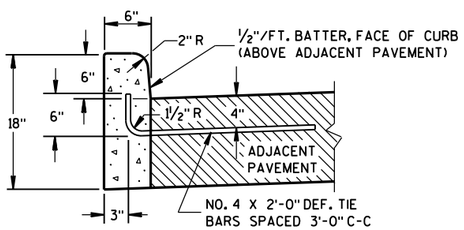


TYPICAL TIE BAR LOCATION ①

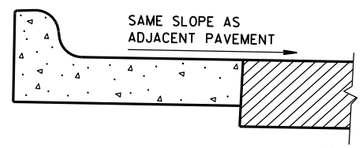


DRIVEWAY ENTRANCE CURB

(WHEN DIRECTED BY THE ENGINEER)

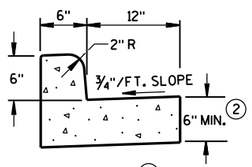


① TYPES A & D



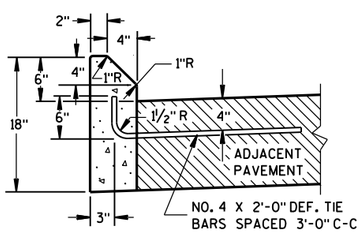
⑥ REVERSE SLOPE GUTTER

(TYPICAL FOR ALL CURB & GUTTER TYPES)



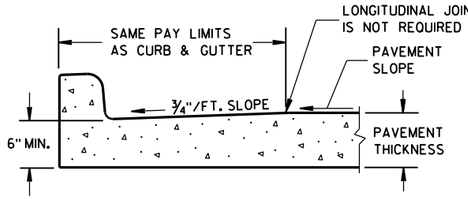
① TYPES A & D

CONCRETE CURB & GUTTER 18"

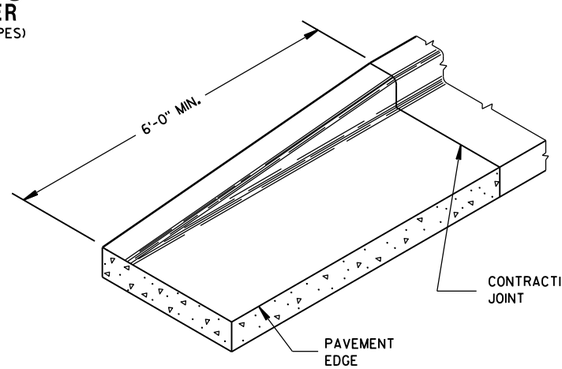


① TYPES G & J

CONCRETE CURB



PARTIAL SECTION OF PAVEMENT WITH INTEGRAL CURB & GUTTER



END SECTION CURB & GUTTER

CONCRETE CURB, CONCRETE CURB & GUTTER AND TIES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

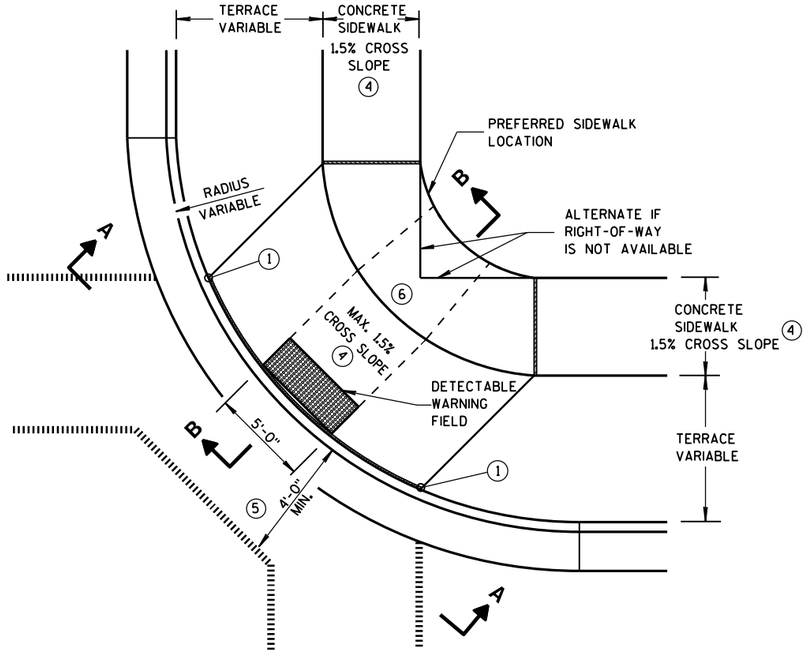
June, 2016 — DATE

/S/ Jerry H. Zogg — ROADWAY STANDARDS DEVELOPMENT ENGINEER

FHWA

6

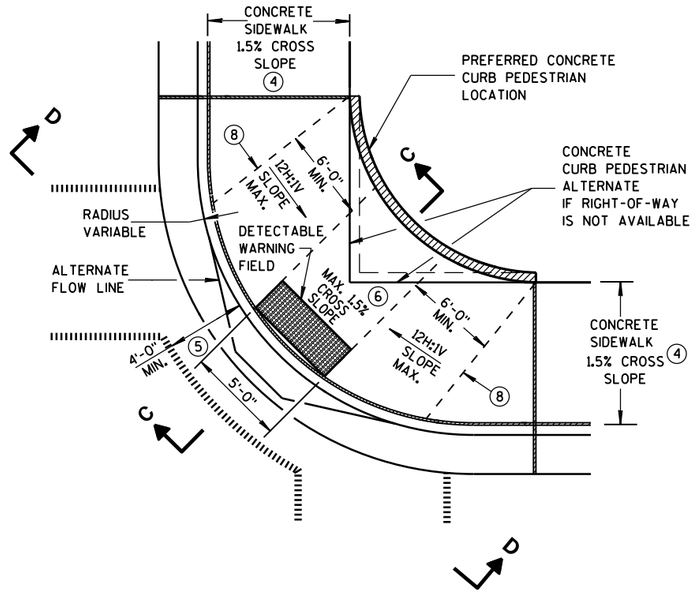
S.D.D. 8 D 1-19



PLAN VIEW

TYPE 1 RAMP

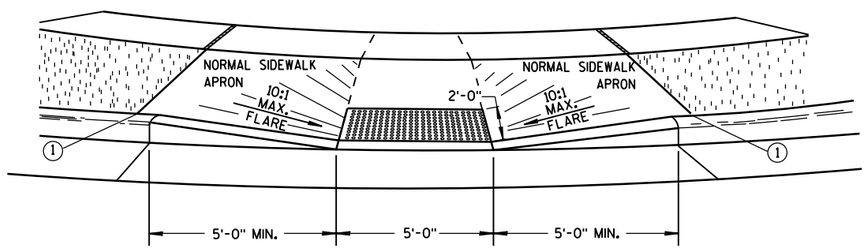
(CENTER OF CORNER RADIUS)



PLAN VIEW

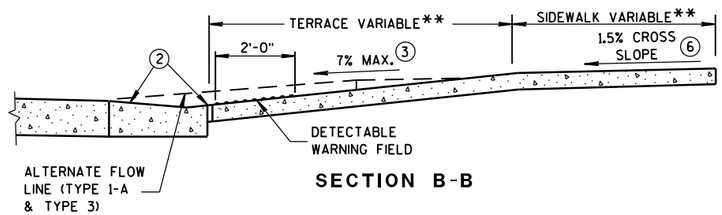
TYPE 1-A RAMP

(NO TERRACE)

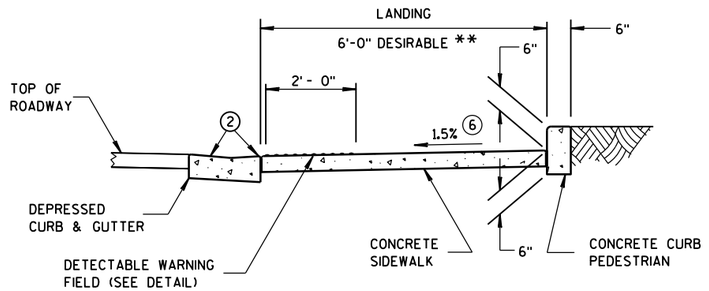


VIEW A-A

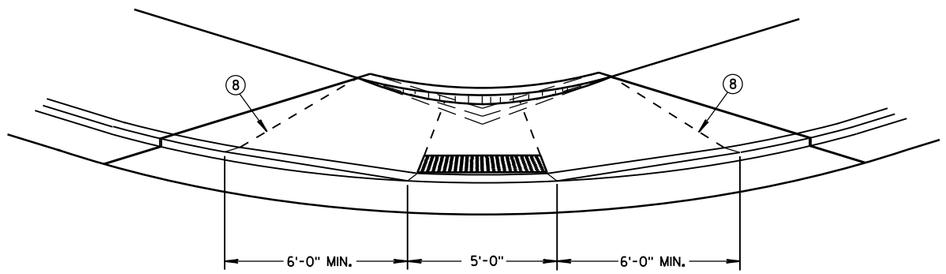
** WIDTH SHOWN ELSEWHERE IN THE PLANS



SECTION B-B



SECTION C-C



VIEW D-D

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.

WHEN NECESSARY, THE SIDEWALK ELEVATION MAY BE LOWERED TO MEET THE HIGH POINT ON THE RAMP.

TYPE 1 RAMPS SHALL HAVE A NORMAL SIDEWALK APRON AND CURB ON BOTH SIDES OF RAMP.

DETECTABLE WARNING FIELD SHALL BE MEASURED AND PAID BY THE SQUARE FOOT AS "CURB RAMP DETECTABLE WARNING FIELD". THE CONCRETE PEDESTRIAN CURB, IF NEEDED, SHALL BE MEASURED AND PAID BY THE LINEAL FOOT AS "CONCRETE CURB PEDESTRIAN". CONCRETE SIDEWALK IN THE CURB RAMP AREA SHALL BE MEASURED AND PAID BY THE SQUARE FOOT AS CONCRETE SIDEWALK, INCLUDING THE AREA UNDER THE DETECTABLE WARNING FIELD.

SELECT CURB RAMP DETECTABLE WARNING FIELD MATERIALS AND DEVICES FROM THE DEPARTMENT'S APPROVED MATERIALS LIST. THE COLOR OF THE DETECTABLE WARNING FIELD IS SPECIFIED ELSEWHERE AND IS INCIDENTAL TO THE BID ITEM OF "CURB RAMP DETECTABLE WARNING FIELD".

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.

SURFACE TEXTURE OF THE RAMP SHALL BE OBTAINED BY COARSE BROOMING TRANSVERSE TO THE SLOPE OF THE RAMP.

(1) THIS POINT IS AN EXTENSION OF OUTSIDE EDGE OF APPROACHING SIDEWALK WHERE IT MEETS THE BACK OF CONCRETE CURB. POINT LOCATION MAY BE ADJUSTED TO ALIGN WITH BEGINNING OF FULL-HEIGHT CURB IF THIS DISTANCE IS SHORT.

(2) GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. MAXIMUM GUTTER FLAG SLOPE IS 4%. PROVIDE LONGITUDINAL DRAINAGE AROUND CURB AND AWAY FROM CURB RAMP. NO VERTICAL LIPS OR DISCONTINUITIES GREATER THAN 1/4-INCH ARE ALLOWED. SLOPE OF CURB HEAD OPENING SHALL NOT EXCEED 7%.

(3) ABSOLUTE MAXIMUM 12H:1V (8.33%) CURB RAMP SLOPE IS ALLOWABLE WITH FLATTENED GUTTER FLAG SLOPE AND NOT TO EXCEED 11% GRADE CHANGE.

(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

(5) PROVIDE A LEVEL LANDING IN THE STREET AND GUTTER AREA. (2% MAXIMUM SLOPE IN ANY DIRECTION). WHEN THE GUTTER SLOPE EXCEEDS 2%, CONSTRUCT THE LEVEL LANDING IN THE STREET AREA.

(6) PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LANDING SIZE IS 5 FEET X 5 FEET.

(8) PROVIDE GRADE BREAK PERPENDICULAR TO DIRECTION OF WHEELCHAIR TRAVEL.

LEGEND

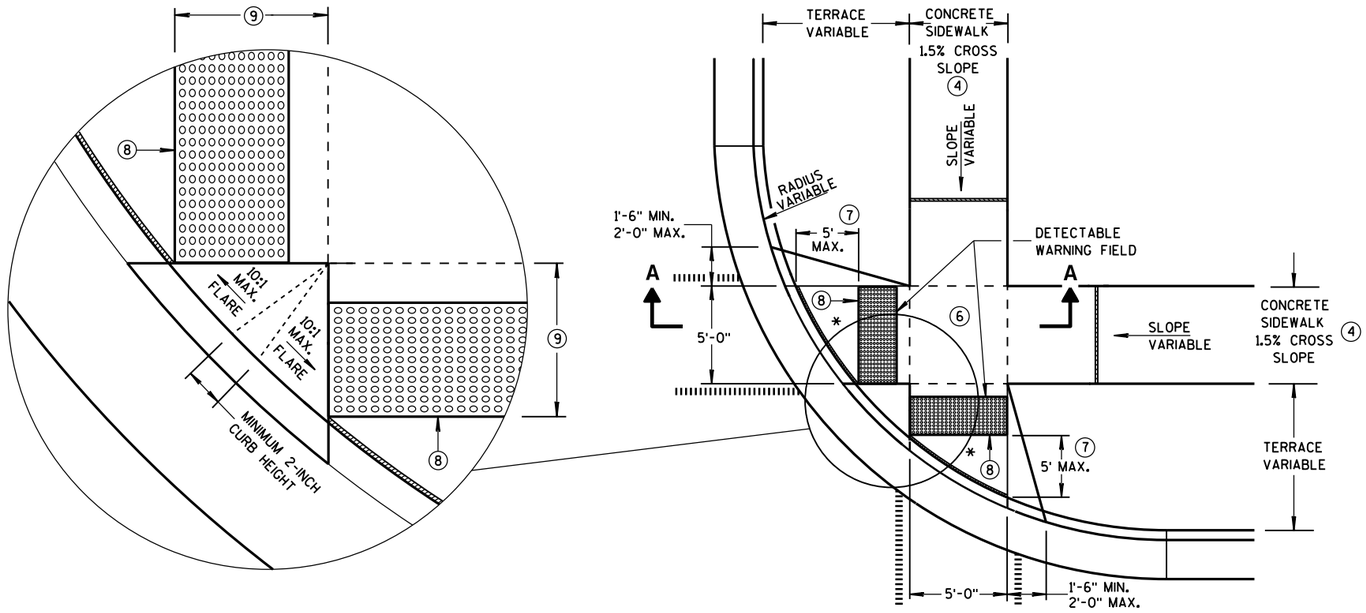
- 1/2" EXPANSION JOINT-SIDEWALK
- CONTRACTION JOINT FIELD LOCATED
- PAVEMENT MARKING CROSSWALK (WHITE)
- ALTERNATIVE LAYOUT

CURB RAMPS TYPES 1 AND 1-A

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

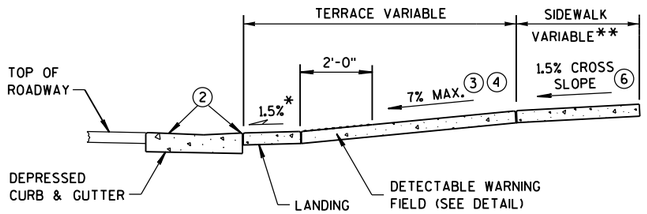
6

S.D.D. 8 D 5-18a



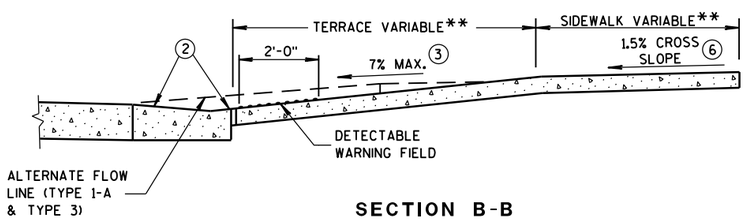
PLAN VIEW
TYPE 2 RAMP
(ON LINE WITH SIDEWALK)

* MAXIMUM 2.0% SLOPE IN ALL DIRECTIONS IN FRONT OF GRADE BREAK



SECTION A-A

** WIDTH SHOWN ELSEWHERE IN THE PLANS



SECTION B-B

GENERAL NOTES

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.

(2) GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. MAXIMUM GUTTER FLAG SLOPE IS 4%. PROVIDE LONGITUDINAL DRAINAGE AROUND CURB AND AWAY FROM CURB RAMP. NO VERTICAL LIPS OR DISCONTINUITIES GREATER THAN 1/4-INCH ARE ALLOWED. SLOPE OF CURB HEAD OPENING SHALL NOT EXCEED 7%.

(3) ABSOLUTE MAXIMUM 12H:1V (8.33%) CURB RAMP SLOPE IS ALLOWABLE WITH FLATTENED GUTTER FLAG SLOPE AND NOT TO EXCEED 11% GRADE CHANGE.

(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

(6) PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LANDING SIZE IS 5 FEET X 5 FEET.

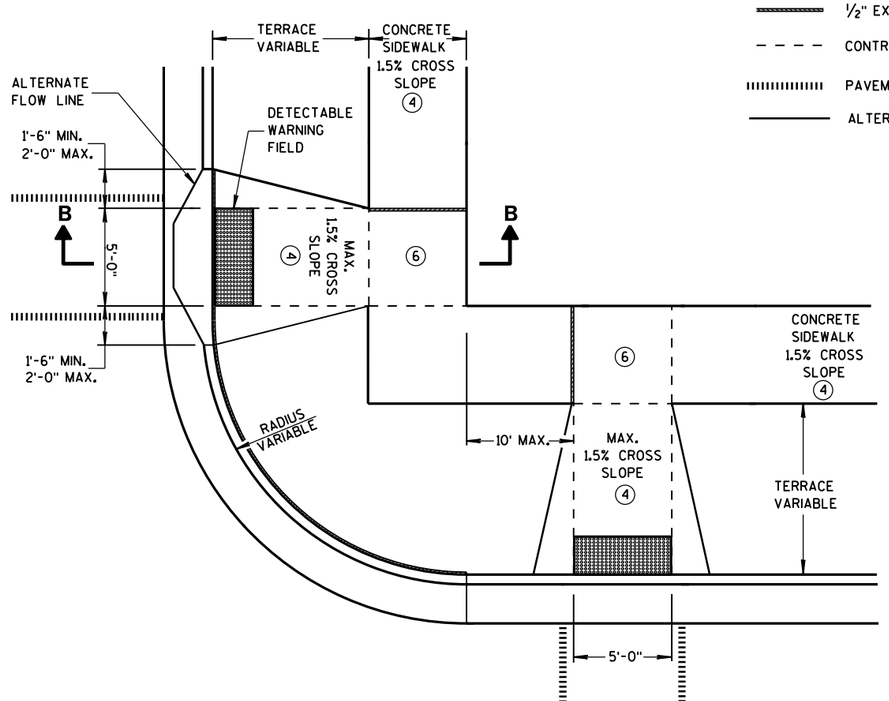
(7) WHEN THIS DISTANCE EXCEEDS 5 FEET, STAGGER ADDITIONAL DETECTABLE WARNING PANEL FORWARD TO REDUCE THIS DISTANCE. PROVIDE MINIMUM 12-INCH ROW OVERLAP TO AVOID SIDESTEP OF DOME DETECTION. USE EQUAL-SIZE PANELS TO DEVELOP OVERLAPPING, STAGGERED ROWS. ALIGN DOMES BETWEEN OVERLAPPING ROWS AND IN DIRECTION OF PEDESTRIAN TRAVEL.

(8) PROVIDE GRADE BREAK PERPENDICULAR TO DIRECTION OF WHEELCHAIR TRAVEL.

(9) WHEN THIS DISTANCE IS LESS THAN 6'-0", IT MAY BE DIFFICULT TO ACHIEVE A 7% SLOPE OR FLATTER ALONG THE RAMP. REDUCE CURB HEIGHT IN TRIANGLE AREA TO ACHIEVE 7% SLOPE OR FLATTER ON RAMP. CONSTRUCT 2-INCH MINIMUM CURB HEIGHT BETWEEN 10:1 FLARES.

LEGEND

- ½" EXPANSION JOINT-SIDEWALK
- CONTRACTION JOINT FIELD LOCATED
- PAVEMENT MARKING CROSSWALK (WHITE)
- ALTERNATIVE LAYOUT



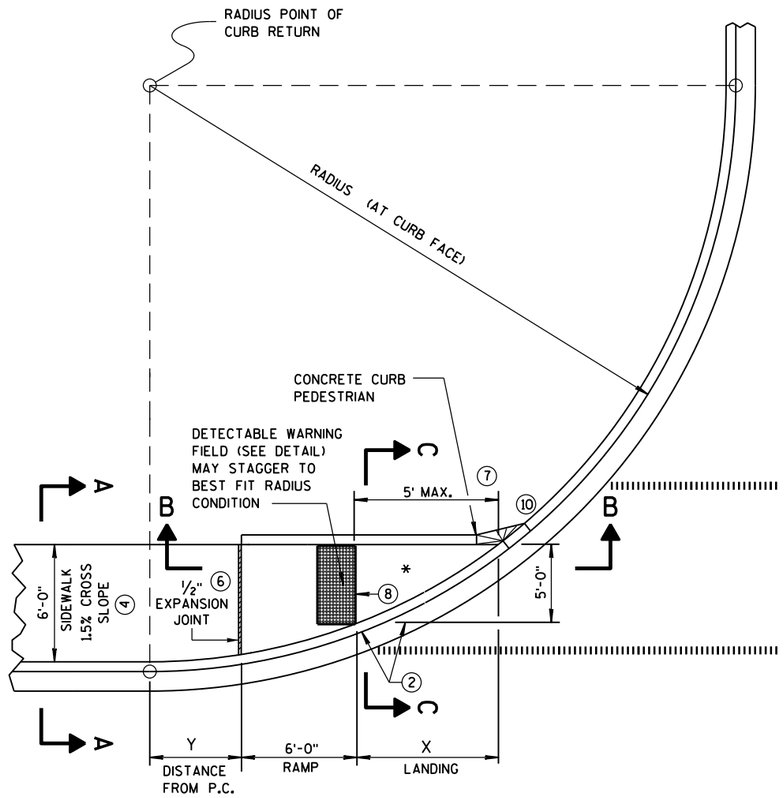
PLAN VIEW
TYPE 3 RAMP
(OUTSIDE OF CROSSWALK AREA)

CURB RAMPS TYPES 2 AND 3

STATE OF WISCONSIN
DEPARTMENT OF TRANSPO

6

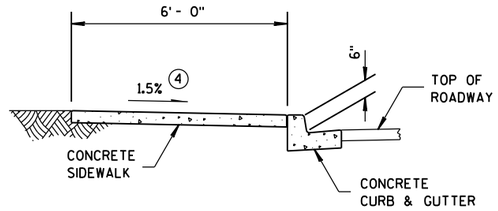
S.D.D. 8 D 5-18b



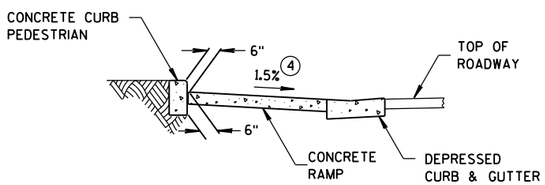
CURB RAMP TYPE 4A
PLAN VIEW

RADIUS (AT CURB FACE)	X	Y
20 FEET	7'-11"	0'-2"
30 FEET	10'-2¾"	1'-7½"
40 FEET	12'-1¼"	2'-10"
50 FEET	13'-8¾"	3'-10¾"
60 FEET	15'-2"	4'-10¼"

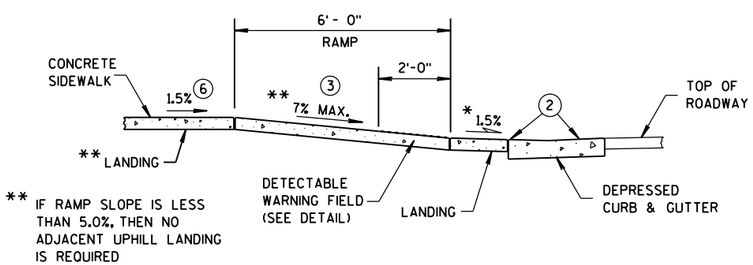
INTERMEDIATE RADII CAN BE INTERPOLATED



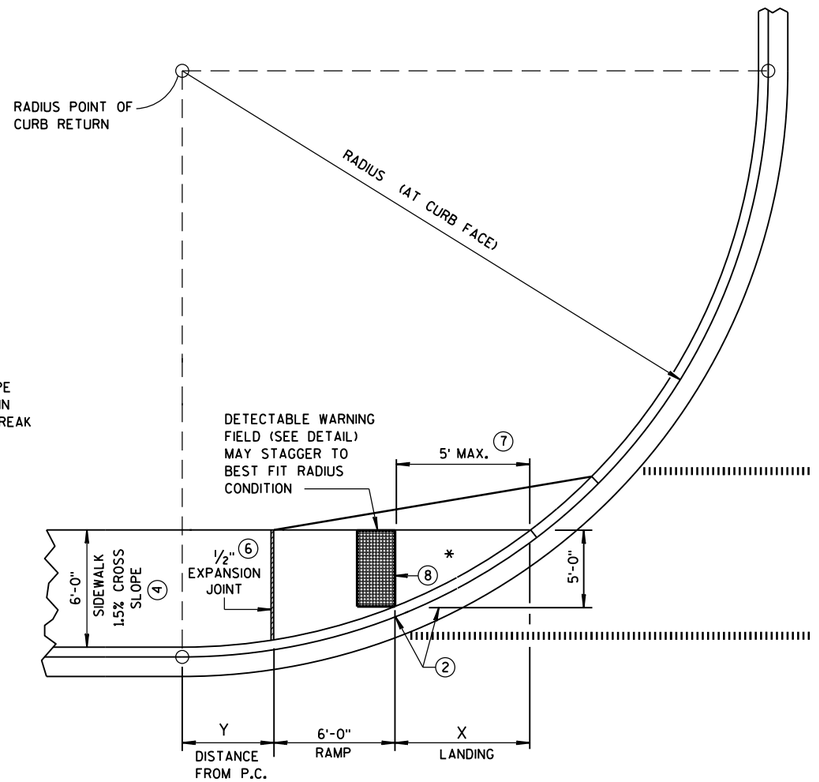
SECTION A-A FOR TYPE 4A



SECTION C-C FOR TYPE 4A



SECTION B-B FOR TYPE 4A



CURB RAMP TYPE 4A1
PLAN VIEW

GENERAL NOTES

AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF RAMP ACCESS AREAS.

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.

(2) GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. MAXIMUM GUTTER FLAG SLOPE IS 4%. PROVIDE LONGITUDINAL DRAINAGE AROUND CURB AND AWAY FROM CURB RAMP. NO VERTICAL LIPS OR DISCONTINUITIES GREATER THAN 1/4-INCH ARE ALLOWED. SLOPE OF CURB HEAD OPENING SHALL NOT EXCEED 7%.

(3) ABSOLUTE MAXIMUM 12H:1V (8.33%) CURB RAMP SLOPE IS ALLOWABLE WITH FLATTENED GUTTER FLAG SLOPE AND NOT TO EXCEED 11% GRADE CHANGE.

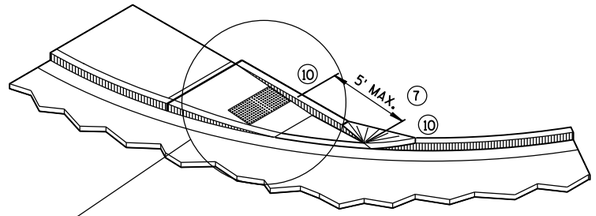
(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

(6) PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LANDING SIZE IS 5 FEET X 5 FEET.

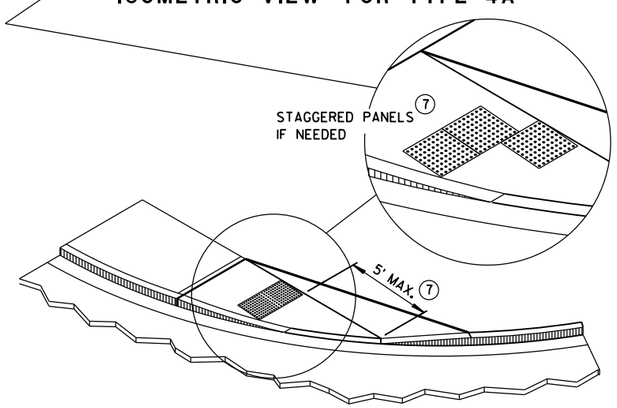
(7) WHEN THIS DISTANCE EXCEEDS 5 FEET, STAGGER ADDITIONAL DETECTABLE WARNING PANEL FORWARD TO REDUCE THIS DISTANCE. PROVIDE MINIMUM 12-INCH ROW OVERLAP TO AVOID SIDESTEP OF DOME DETECTION. USE EQUAL-SIZE PANELS TO DEVELOP OVERLAPPING, STAGGERED ROWS. ALIGN DOMES BETWEEN OVERLAPPING ROWS AND IN DIRECTION OF PEDESTRIAN TRAVEL.

(8) PROVIDE GRADE BREAK PERPENDICULAR TO DIRECTION OF WHEELCHAIR TRAVEL.

(10) INSTALL TRANSITION NOSE. (INCIDENTAL TO OTHER PAY ITEMS). DO NOT MARK TRANSITION NOSE.



ISOMETRIC VIEW FOR TYPE 4A



ISOMETRIC VIEW FOR TYPE 4A1

LEGEND

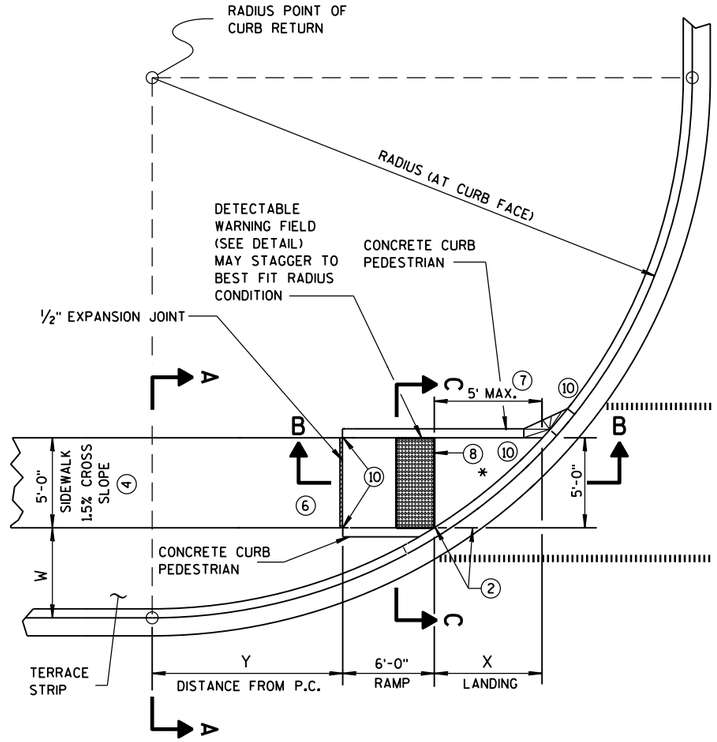
- ½" EXPANSION JOINT-SIDEWALK
- CONTRACTION JOINT FIELD LOCATED
- PAVEMENT MARKING CROSSWALK (WHITE)

CURB RAMPS
TYPES 4A AND 4A1

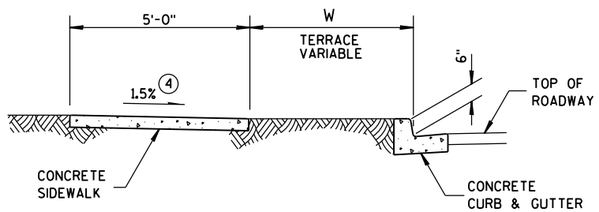
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

6

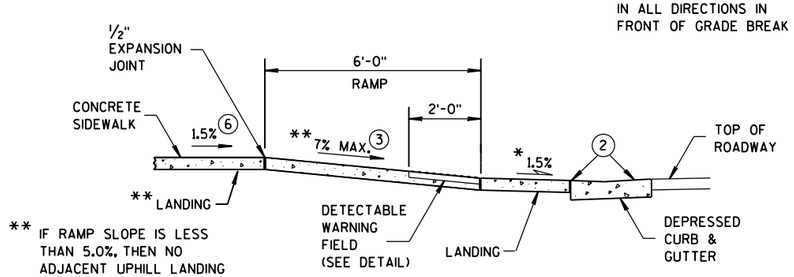
S.D.D. 8 D 5-18c



CURB RAMP TYPE 4B
PLAN VIEW



SECTION A-A FOR TYPE 4B



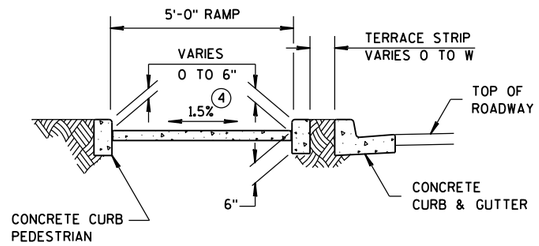
SECTION B-B FOR TYPE 4B

LEGEND

½" EXPANSION JOINT-SIDEWALK

CONTRACTION JOINT FIELD LOCATED

PAVEMENT MARKING CROSSWALK (WHITE)



SECTION C-C FOR TYPE 4B

RADIUS (AT CURB FACE)	W = 3'-0"		W = 4'-0"		W = 5'-0"		W = 6'-0"		W = 7'-0"	
	X	Y	X	Y	X	Y	X	Y	X	Y
20 FEET	5'-9¾"	3'-6½"	4'-11½"	5'-1¾"	4'-3¼"	6'-5½"	3'-8¾"	7'-6¾"	3'-3"	8'-6¼"
30 FEET	7'-9¼"	5'-10½"	6'-9½"	7'-11¼"	6'-0¼"	9'-8"	5'-5"	11'-1¾"	4'-10¾"	12'-5¾"
40 FEET	9'-4"	7'-10"	8'-2¾"	10'-3"	7'-4¾"	12'-3¾"	6'-8½"	14'-1¼"	6'-1¾"	15'-8½"
50 FEET	10'-8"	9'-6½"	9'-5½"	12'-3¼"	8'-6½"	14'-7½"	7'-9¾"	16'-8¼"	7'-2½"	18'-6¼"
60 FEET	11'-10¼"	11'-0¾"	10'-6½"	14'-1¼"	9'-6½"	16'-8½"	8'-9¼"	18'-11¾"	8'-1½"	21'-0½"

INTERMEDIATE RADII CAN BE INTERPOLATED

GENERAL NOTES

AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF RAMP ACCESS AREAS.

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.

(2) GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. MAXIMUM GUTTER FLAG SLOPE IS 4%. PROVIDE LONGITUDINAL DRAINAGE AROUND CURB AND AWAY FROM CURB RAMP. NO VERTICAL LIPS OR DISCONTINUITIES GREATER THAN ¼-INCH ARE ALLOWED. SLOPE OF CURB HEAD OPENING SHALL NOT EXCEED 7%.

(3) ABSOLUTE MAXIMUM 12H:1V (8.33%) CURB RAMP SLOPE IS ALLOWABLE WITH FLATTENED GUTTER FLAG SLOPE AND NOT TO EXCEED 11% GRADE CHANGE.

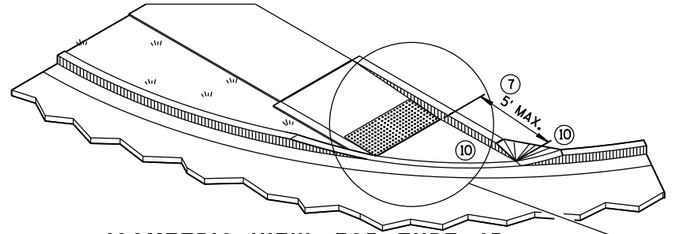
(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

(6) PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LANDING SIZE IS 5 FEET X 5 FEET.

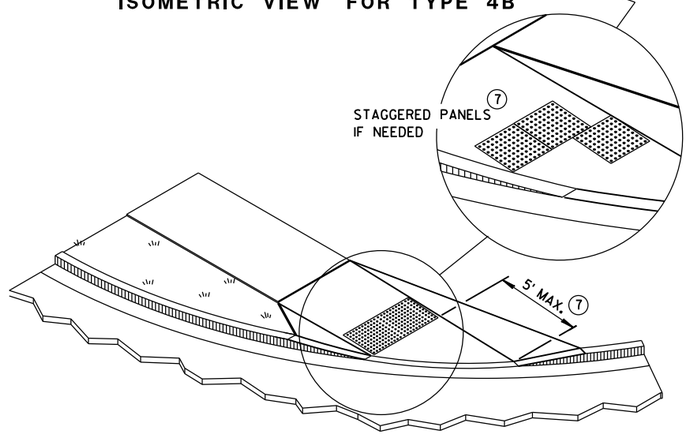
(7) WHEN THIS DISTANCE EXCEEDS 5 FEET, STAGGER ADDITIONAL DETECTABLE WARNING PANEL FORWARD TO REDUCE THIS DISTANCE. PROVIDE MINIMUM 12-INCH ROW OVERLAP TO AVOID SIDESTEP OF DOME DETECTION. USE EQUAL-SIZE PANELS TO DEVELOP OVERLAPPING, STAGGERED ROWS. ALIGN DOMES BETWEEN OVERLAPPING ROWS AND IN DIRECTION OF PEDESTRIAN TRAVEL.

(8) PROVIDE GRADE BREAK PERPENDICULAR TO DIRECTION OF WHEELCHAIR TRAVEL.

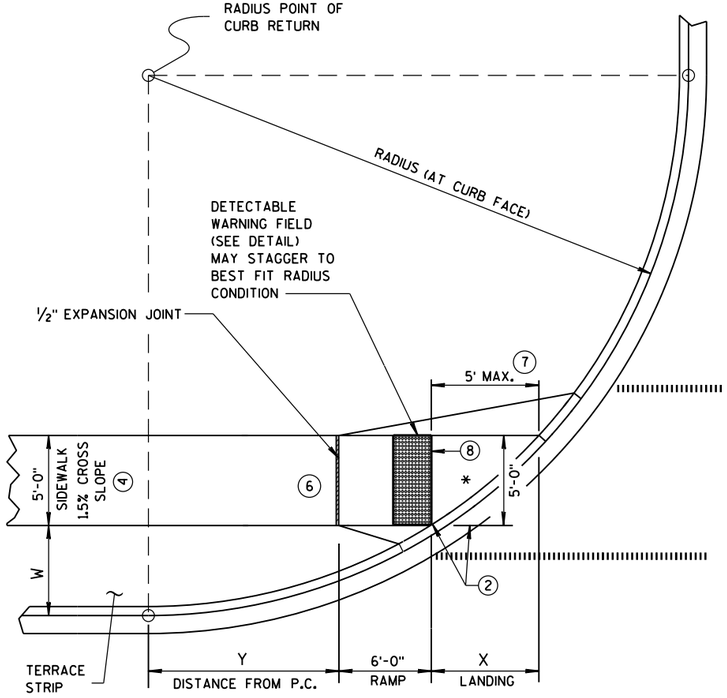
(10) INSTALL TRANSITION NOSE. (INCIDENTAL TO OTHER PAY ITEMS). DO NOT MARK TRANSITION NOSE.



ISOMETRIC VIEW FOR TYPE 4B



ISOMETRIC VIEW FOR TYPE 4B1



CURB RAMP TYPE 4B1
PLAN VIEW

CURB RAMPS TYPE 4B AND 4B1

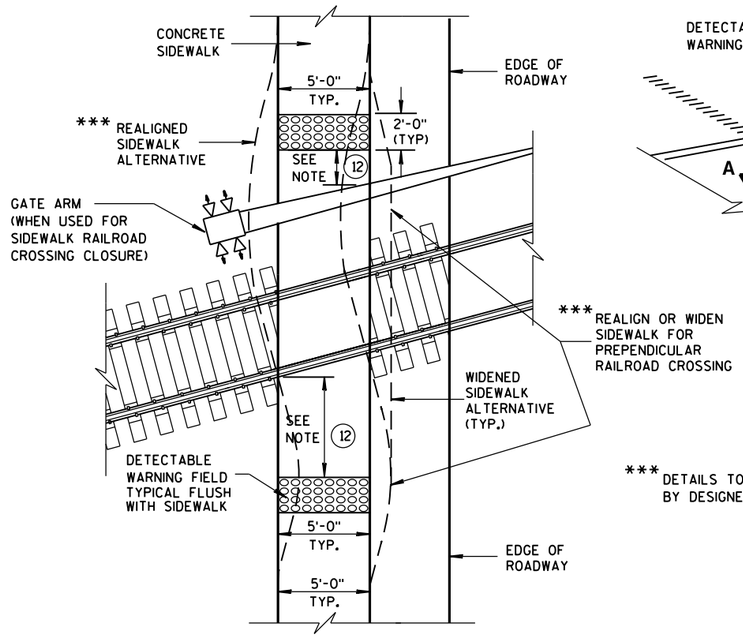
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

6

S.D.D. 8 D 5-18d

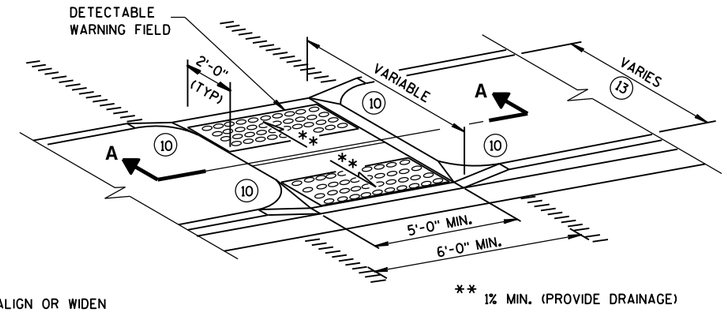
6

S.D.D. 8 D 5-18d



*** DETAILS TO BE DETERMINED BY DESIGNER

TYPE 8
DETECTABLE WARNINGS AT RAILROAD CROSSING



MEDIAN ISLAND NON-ELEVATED CROSSING
TYPE 5

GENERAL NOTES

SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2%.

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.

(2) GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. MAXIMUM GUTTER FLAG SLOPE IS 4%. PROVIDE LONGITUDINAL DRAINAGE AROUND CURB AND AWAY FROM CURB RAMP. NO VERTICAL LIPS OR DISCONTINUITIES GREATER THAN 1/4-INCH ARE ALLOWED. SLOPE OF CURB HEAD OPENING SHALL NOT EXCEED 7%.

(3) ABSOLUTE MAXIMUM 12H:1V (8.33%) CURB RAMP SLOPE IS ALLOWABLE WITH FLATTENED GUTTER FLAG SLOPE AND NOT TO EXCEED 11% GRADE CHANGE.

(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

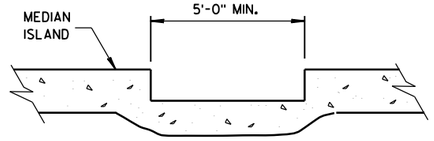
(6) PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LANDING SIZE IS 5 FEET X 5 FEET.

(10) INSTALL TRANSITION NOSE. (INCIDENTAL TO OTHER PAY ITEMS). DO NOT MARK TRANSITION NOSE.

(11) SLOPE SIDEWALK TOWARD LANDING AS SHOWN WHERE THERE IS NO TERRACE OR WHERE THE TERRACE WIDTH IS LESS THAN 6 FEET WIDE.

(12) THE EDGE OF THE DETECTABLE WARNING FIELD NEAREST TO A RAILROAD CROSSING SHALL BE 1.5 FEET ± 0.1' FROM THE FACE OF THE GATE ARM IF THE GATE ARM EXTENDS ACROSS THE SIDEWALK. WHERE THERE IS NO PEDESTRIAN GATE, THE EDGE OF THE DETECTABLE WARNING FIELD NEAREST TO THE RAILROAD CROSSING SHALL BE 15 FEET FROM THE NEAREST RAIL.

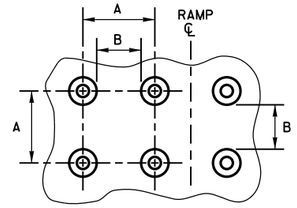
(13) DO NOT INSTALL DETECTABLE WARNING FIELDS IF MEDIAN WIDTH BETWEEN BACK OF CURBS IS LESS THAN 6 FEET.



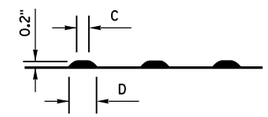
SECTION A-A

	MIN.	MAX.
A	1.6"	2.4"
B	0.65"	1.5"
C	*	*
D	0.9"	1.4"

* THE C DIMENSION IS 50% TO 65% OF THE D DIMENSION.

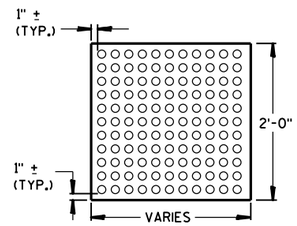


PLAN VIEW

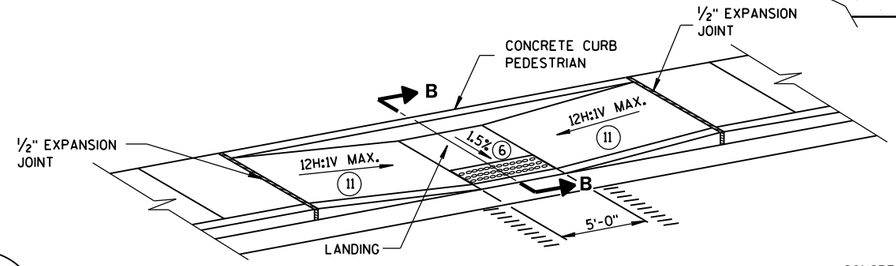


ELEVATION VIEW

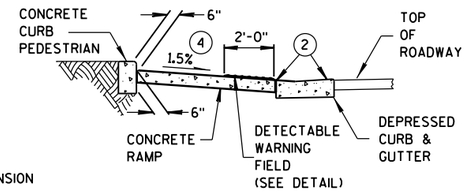
TRUNCATED DOMES
DETECTABLE WARNING PATTERN DETAIL



PLAN VIEW
DETECTABLE WARNING FIELD (TYPICAL)

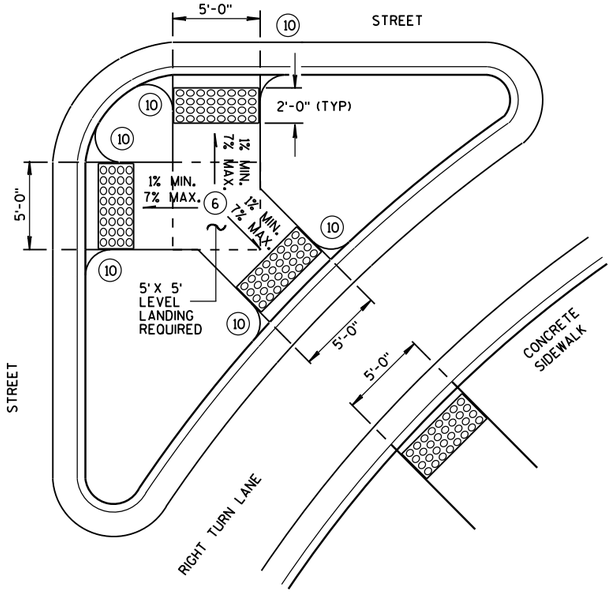


MID-BLOCK CROSSING
TYPE 7A

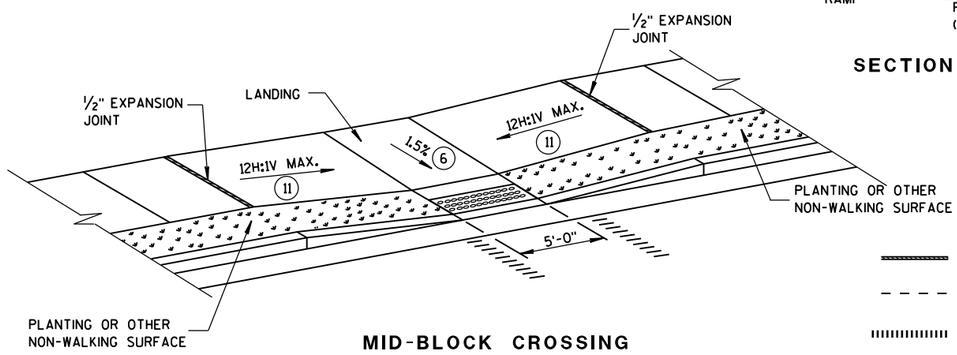


SECTION B-B

REFER TO GENERAL NOTES (2) AND (3) FOR ALL ISLAND CURB RAMPS



TYPE 6
DETECTABLE WARNING AT ISLANDS



MID-BLOCK CROSSING
TYPE 7B

NOTE: THESE PARALLEL AND PARALLEL/PERPENDICULAR CURB RAMPS MAY BE USED AT INTERSECTIONS AND MID BLOCK LOCATIONS.

LEGEND

- 1/2" EXPANSION JOINT-SIDEWALK
- CONTRACTION JOINT FIELD LOCATED
- PAVEMENT MARKING CROSSWALK (WHITE)

CURB RAMPS TYPES 5, 6, 7A, 7B & 8

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept., 2016
DATE
FHWA

/S/ Rodney Taylor
ROADWAY STANDARDS UNIT SUPERV

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S.D.D. 8 D 5-18e

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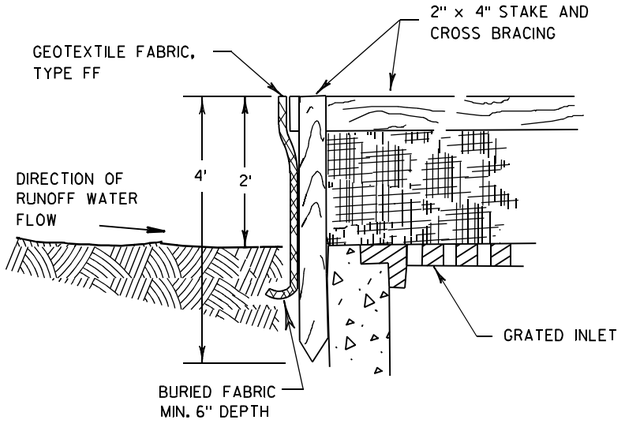
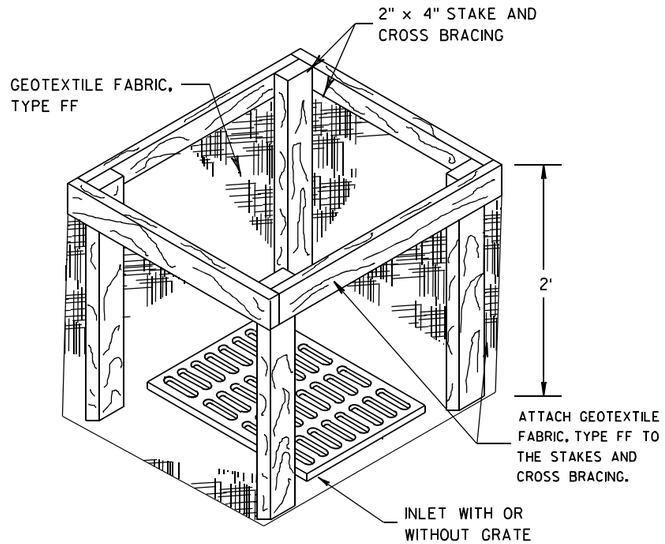
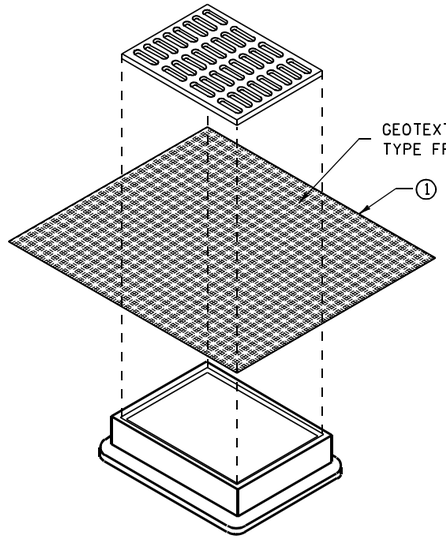
S.D.D. 8 D 5-18e



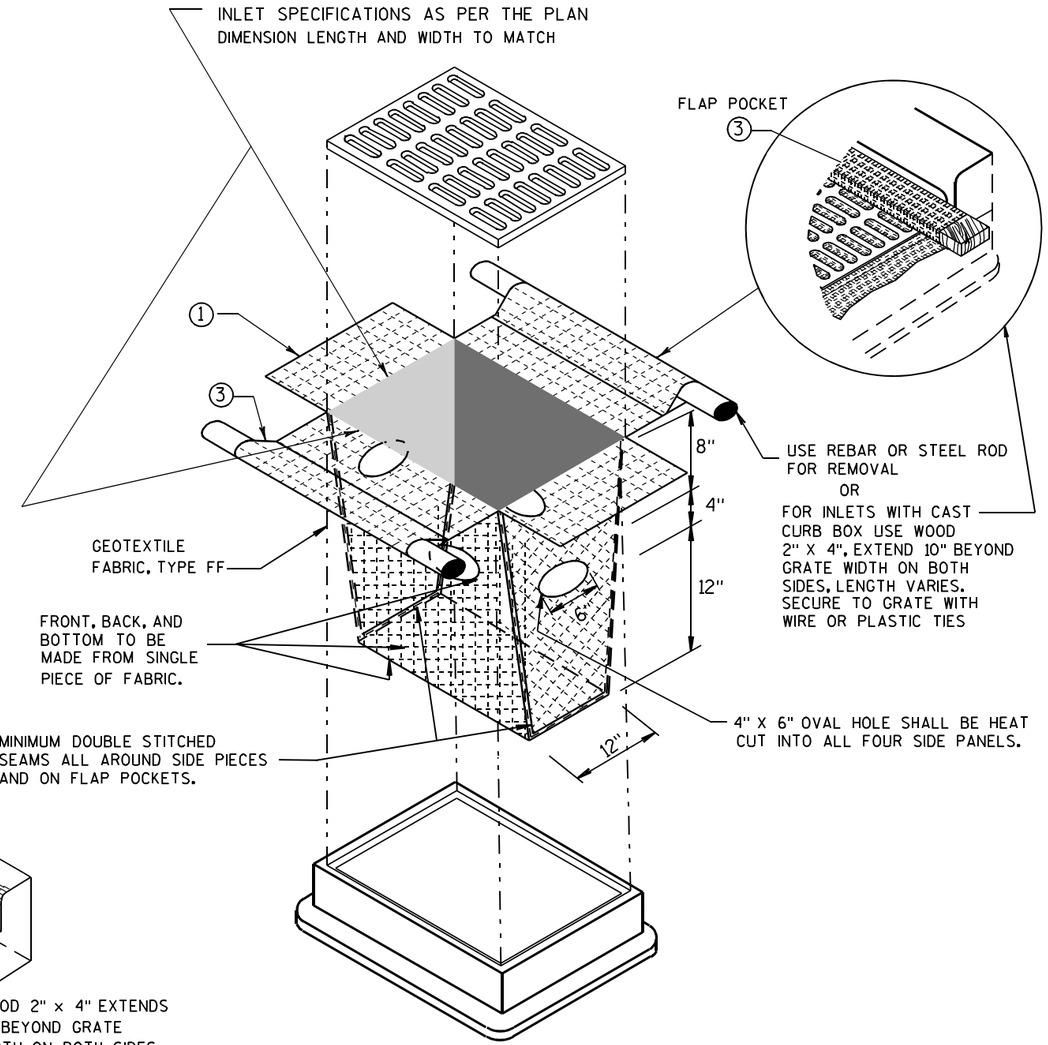


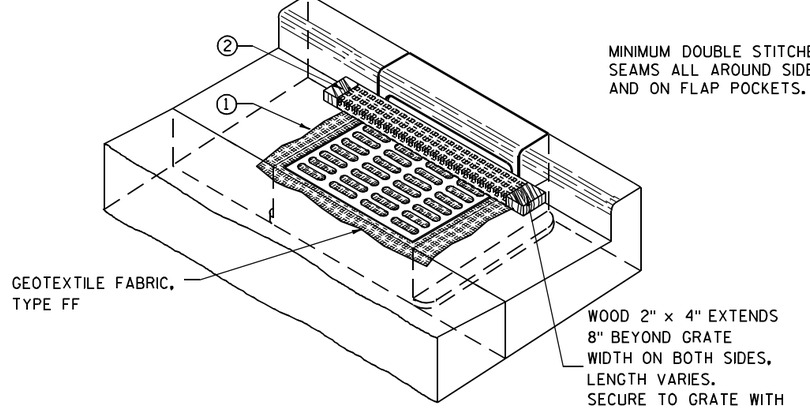
INLET PROTECTION, TYPE A



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

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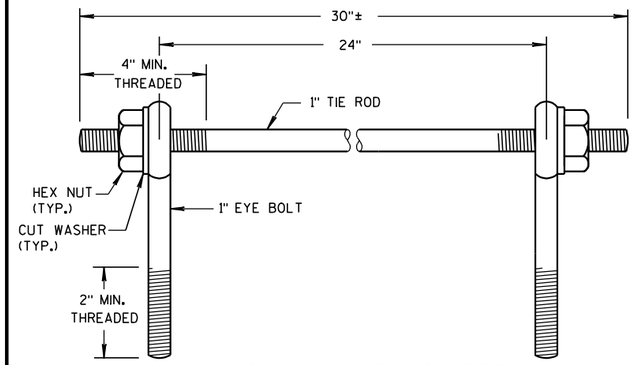
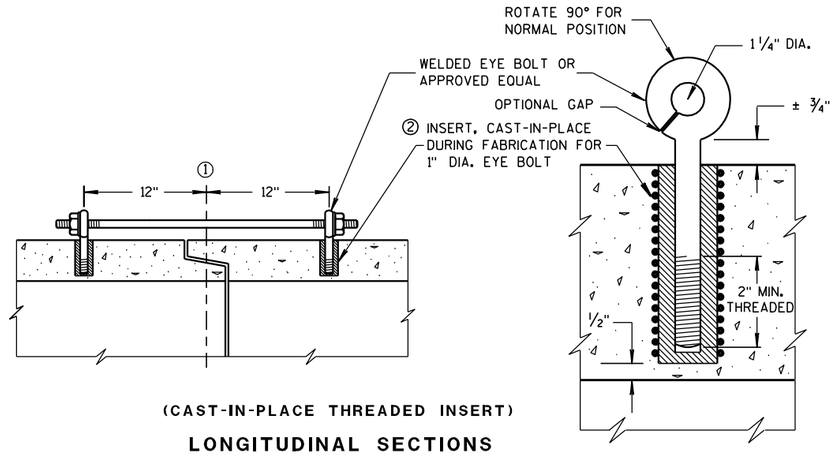
S.D.D. 8 E 10-2



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.

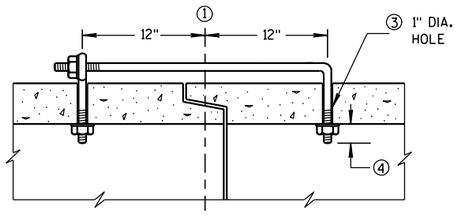
② THE INSIDE OF THE THREADED INSERTS SHALL BE CLEAN TO ALLOW THE INSERTION OF THREADED EYE BOLTS.

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

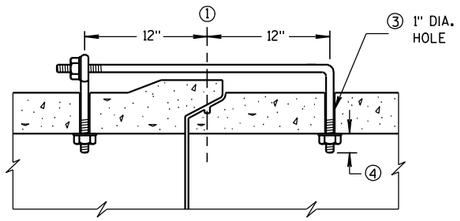
④ BOLT PROJECTION INSIDE OF PIPE SHALL NOT EXCEED 2 INCHES.

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)

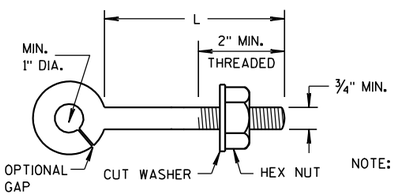


(MODIFIED BELL PIPE)

LONGITUDINAL SECTION

EYE BOLT DIMENSION TABLE

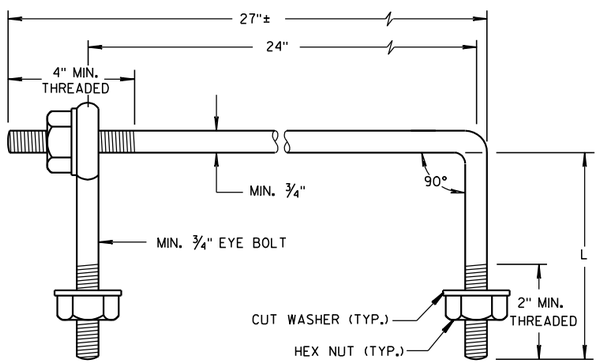
PIPE SIZE	L = LENGTH	
	TONGUE & GROOVE PIPE	MODIFIED BELL PIPE
18" TO 24"	4 1/2"	6 1/4"
30"	5"	7"
36"	5 1/2"	7"
42"	6"	
48"	6 1/2"	
60"	7 1/2"	
66"	8"	



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

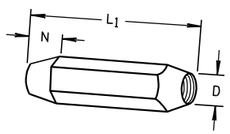
(JOINT TIES FOR 18" TO 66" DIA. CONCRETE PIPE)

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 7/16

DIMENSIONS SHOWN ARE IN INCHES



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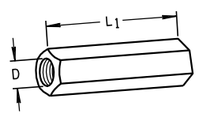
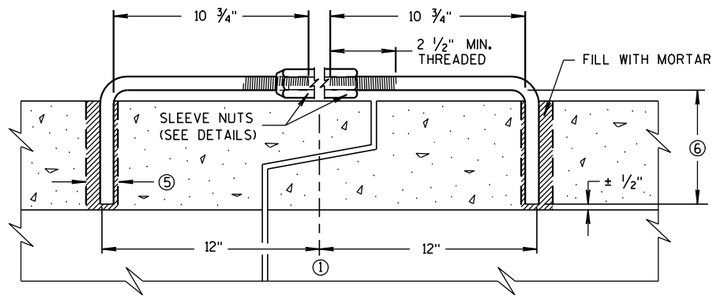


PLAIN

RIGHT AND LEFT THREADS

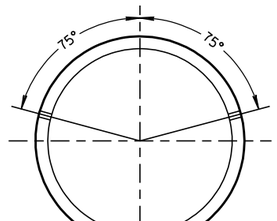
SLEEVE NUTS



LONGITUDINAL SECTION

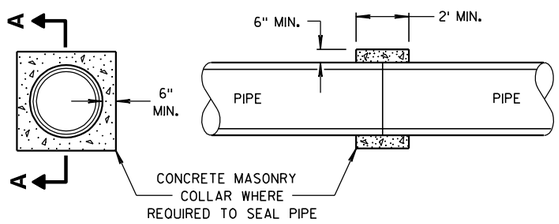
(JOINT TIES FOR 12" TO 108" DIA. CONCRETE PIPE)

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
98

FHWA

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S.D.D. 8 F 4-7

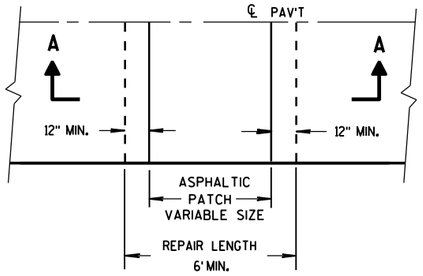
GENERAL NOTES

SAW CUT, DRILL, AND LIFT OUT EXISTING CONCRETE PAVEMENT WITHIN THE BOUNDARIES OF CONCRETE REPAIR AREAS. THE CONTRACTOR MAY MAKE ADDITIONAL SAW CUTS INSIDE THE REPAIR LIMITS TO REDUCE WEIGHT AND SIZE OF CONCRETE PIECES.

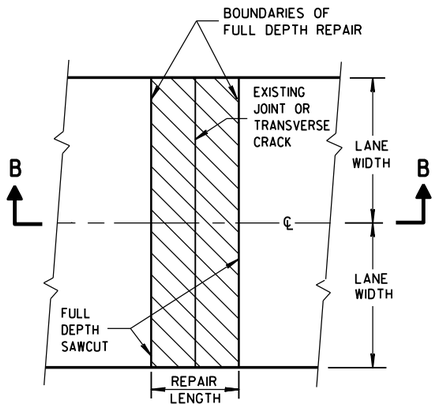
PROVIDE 6-FOOT MINIMUM DISTANCE FROM BOUNDARIES OF CONCRETE REPAIR AREAS TO ADJACENT TRANSVERSE JOINT OR CRACK.

THE LENGTH OF THE REPAIRS MAY VARY FROM THE DIMENSIONS SHOWN IF THE EXISTING CONCRETE PAVEMENT IS NONDOWELED AND THE PAVEMENT IS TO BE OVERLAID AFTER REPAIRING.

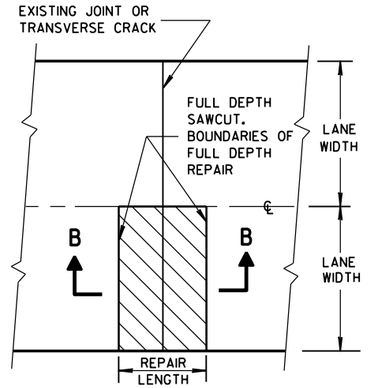
(1) DOWEL BARS MIGHT NOT EXIST.



PLAN VIEW

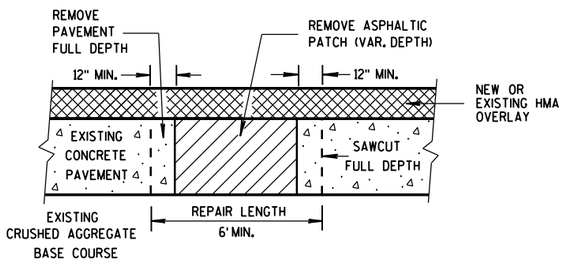


PLAN VIEW
(DOUBLE LANE REPAIR)



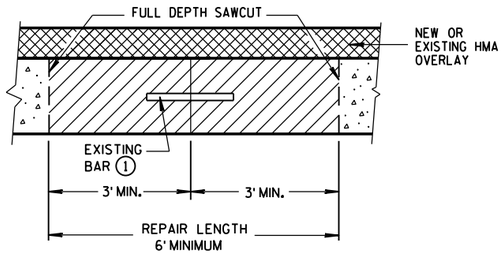
PLAN VIEW
(SINGLE LANE REPAIR)

FULL DEPTH CONCRETE PAVEMENT REMOVAL



SECTION A-A

HMA PATCH REMOVAL



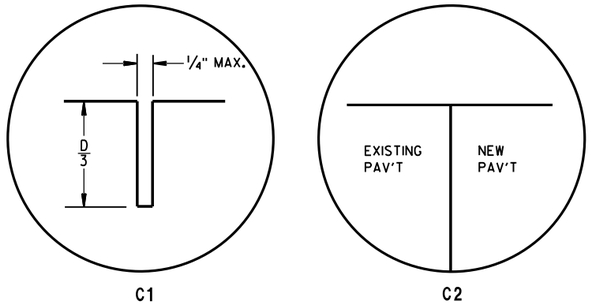
SECTION B-B

CONCRETE REMOVAL

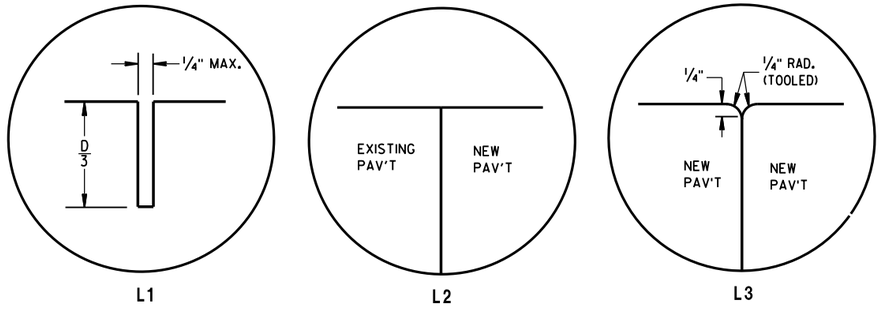
BASE PATCHING CONCRETE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

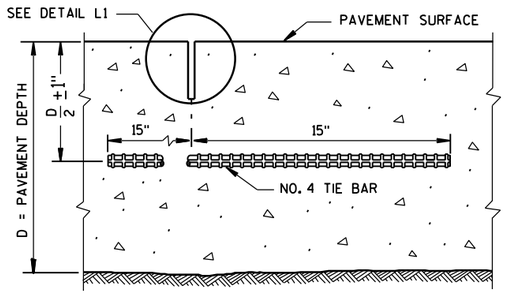
6
S.D.D. 13 C 14-6a



TRANSVERSE JOINTS

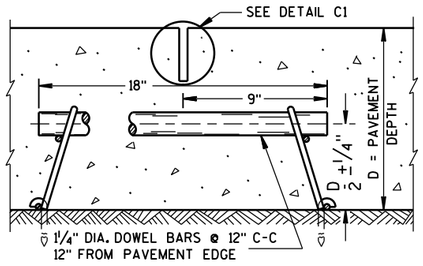


LONGITUDINAL JOINTS



SECTION C-C

SAWED LONGITUDINAL JOINT



SECTION F-F

CONTRACTION JOINT

GENERAL NOTES

INSTALL DOWEL BARS PARALLEL TO THE PAVEMENT CENTERLINE AND PAVEMENT SURFACE.

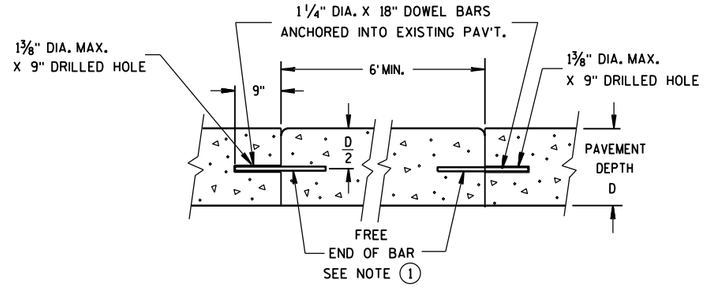
CONCRETE BASE PATCHES OF EXISTING NONDOWELED CONCRETE PAVEMENTS DO NOT NEED TO BE DOWELED.

DO NOT SEAL OR FILL JOINTS.

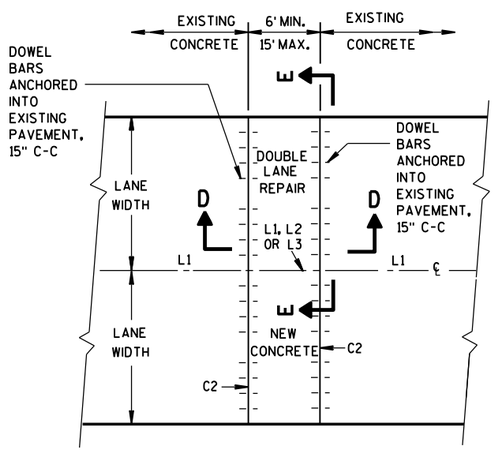
ANCHOR DOWEL BARS AND TIE BARS INTO DRILLED HOLES WITH AN EPOXY.

PROVIDE A MINIMUM DISTANCE OF 15 INCHES FROM AN EXISTING TRANSVERSE JOINT OR THE EDGE OF REPLACEMENT TO THE CENTER OF THE TIE BAR NEAREST THAT JOINT OR EDGE.

(1) APPLY A THIN UNIFORM COATING OF SURFACE TREATMENT TO THE FREE END OF DOWEL BARS TO PREVENT BONDING.

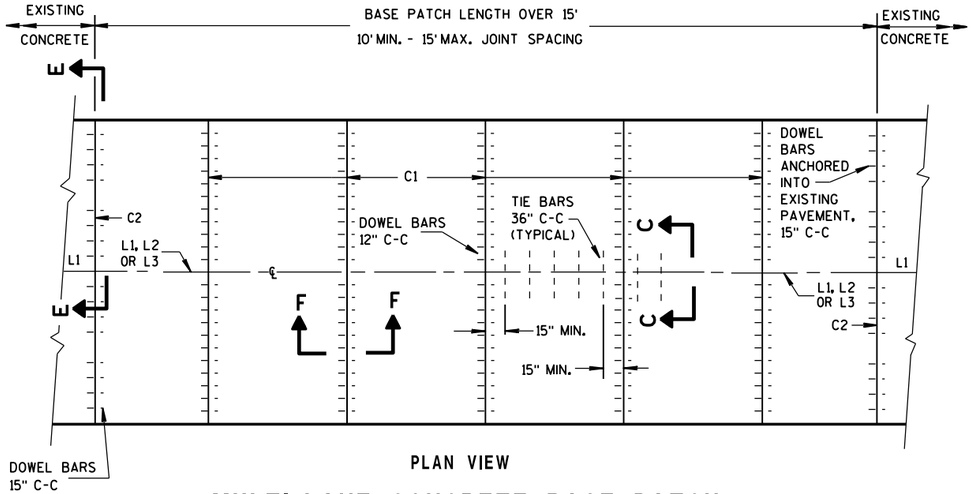


SECTION D-D



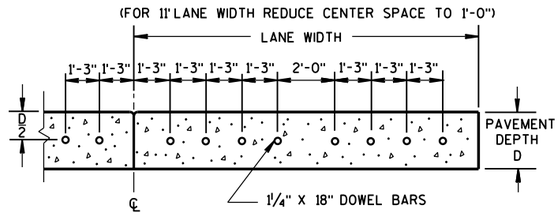
PLAN VIEW

MULTI-LANE CONCRETE BASE PATCH 15' MAXIMUM LENGTH



PLAN VIEW

MULTI-LANE CONCRETE BASE PATCH GREATER THAN 15' IN LENGTH



SECTION E-E

SPACING OF DOWEL BARS ANCHORED INTO EXISTING PAVEMENT

BASE PATCHING CONCRETE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

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S.D.D. 13 C 14-6b

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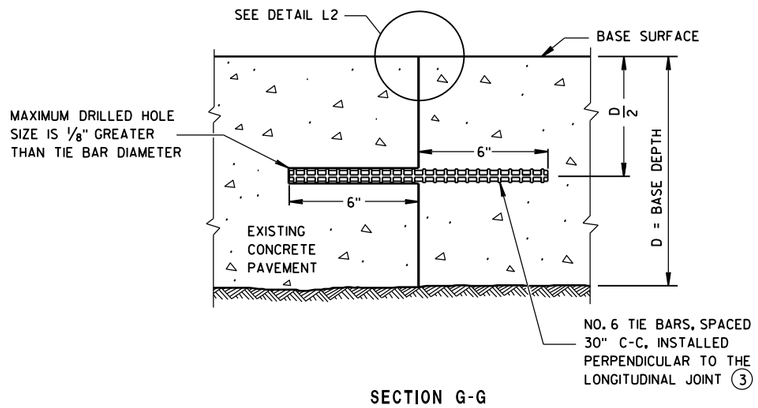
S.D.D. 13 C 14-6b



SECTION G-G

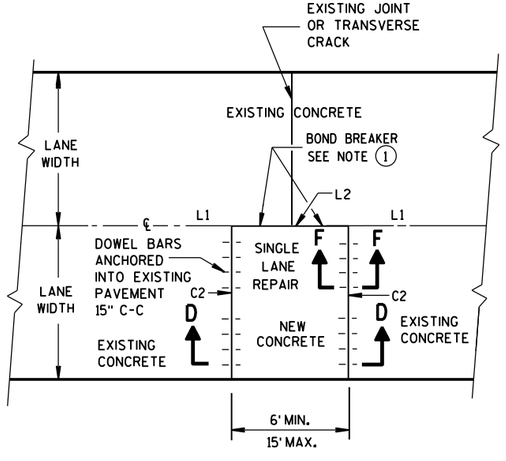
TIE BARS ANCHORED INTO EXISTING PAVEMENT

GENERAL NOTES

(1) USE AN ENGINEER-APPROVED BOND BREAKER (E.G. RELEASE AGENT, CURING COMPOUND) FOR SINGLE LANE BASE PATCHES UP TO 15 FEET IN LENGTH.

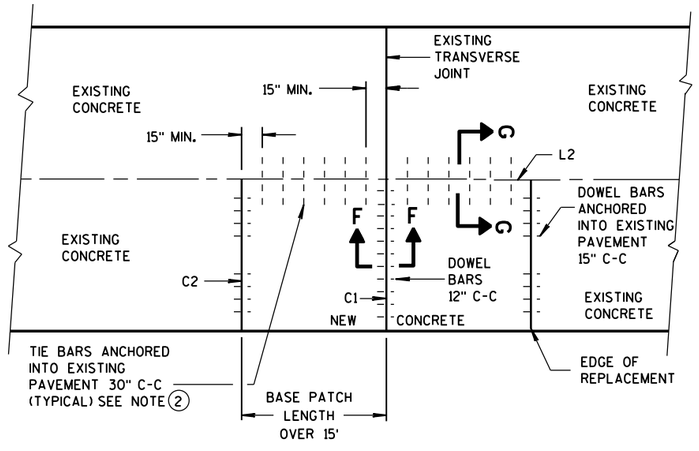
(2) WITH THE APPROVAL OF THE ENGINEER, FOR SINGLE LANE PAVEMENT REPLACEMENTS LESS THAN 30 FEET IN LENGTH, DRILLED TIE BARS MAY BE INSTALLED ON 6:1 SKEW HORIZONTALLY, DIRECTION OF SKEW ALTERNATING WITH EACH SUCCESSIVE BAR. DRIVE SKEWED TIE BARS TO A DEPTH OF 6 INCHES IN A HOLE OF SUCH A DIAMETER AS TO PROVIDE A TIGHT DRIVEN FIT.

(3) ANCHOR TIE BARS INTO DRILLED HOLES WITH AN EPOXY.



PLAN VIEW

SINGLE LANE CONCRETE BASE PATCH 15' MAXIMUM LENGTH



PLAN VIEW

SINGLE LANE CONCRETE BASE PATCH GREATER THAN 15' IN LENGTH

BASE PATCHING CONCRETE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept., 2015 — DATE
/S/ Peter Kemp, P.E. — PAVEMENT SUPER
FHWA

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S.D.D. 13 C 14-6c

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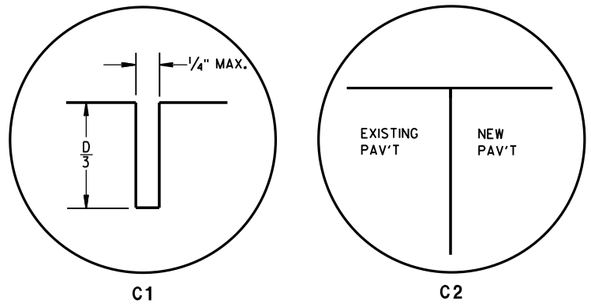
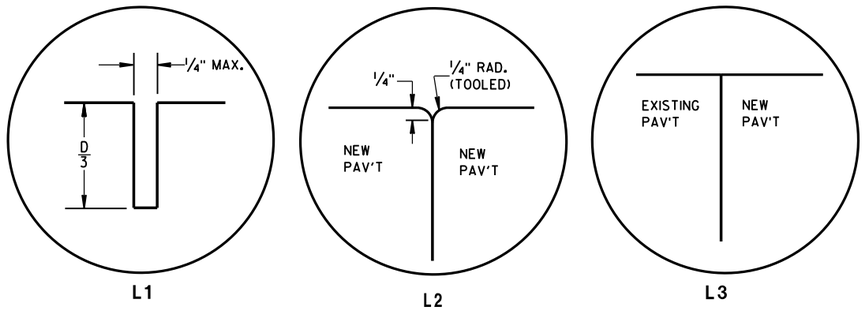
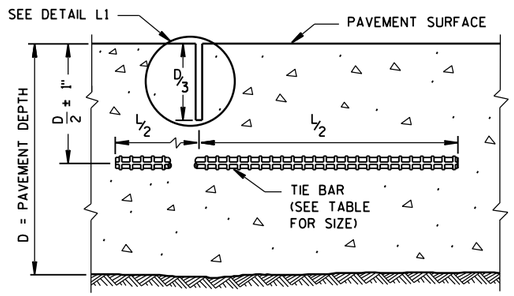
S.D.D. 13 C 14-6c



TRANSVERSE JOINTS

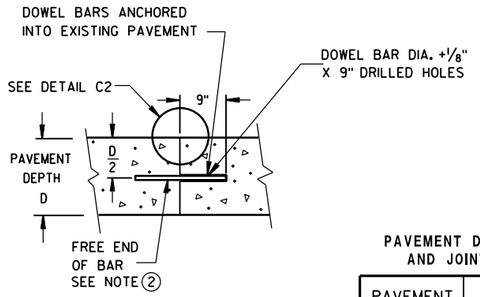


LONGITUDINAL JOINTS



SECTION C-C

SAWED JOINT



SECTION D-D

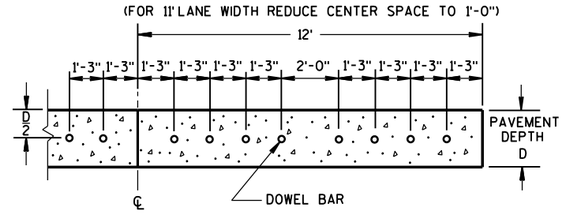
GENERAL NOTES

ANCHOR TIE BARS AND DOWEL BARS INTO DRILLED HOLES WITH AN EPOXY.

PROVIDE A MINIMUM DISTANCE OF 15 INCHES FROM AN EXISTING TRANSVERSE JOINT OR THE EDGE OF REPLACEMENT TO THE CENTER OF THE TIE BAR NEAREST THAT JOINT OR EDGE.

(1) INSTALL DOWEL BARS PARALLEL TO THE PAVEMENT CENTERLINE AND PAVEMENT SURFACE.

(2) APPLY A THIN UNIFORM COATING OF SURFACE TREATMENT TO THE FREE END OF DOWEL BARS TO PREVENT BONDING.



SECTION E-E

SPACING OF DOWEL BARS ANCHORED INTO EXISTING PAVEMENT

PAVEMENT DEPTH, DOWEL BAR SIZE AND JOINT SPACING TABLE

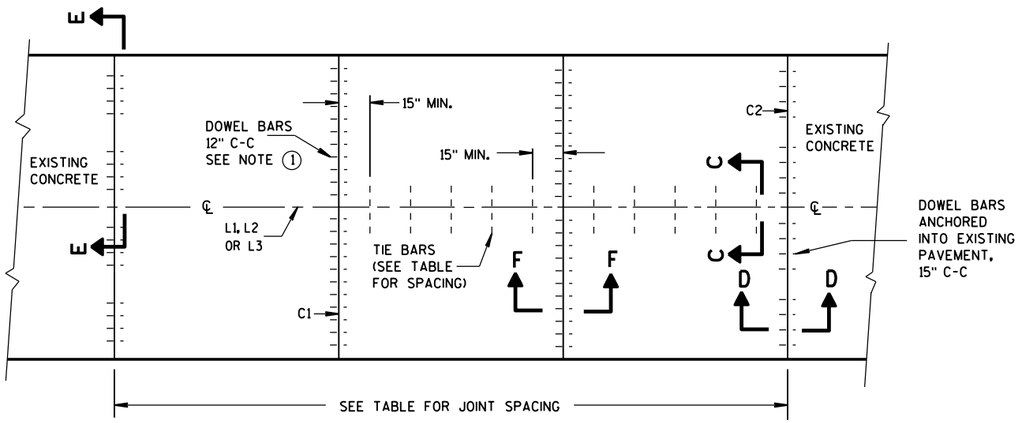
PAVEMENT DEPTH (D)	DOWEL BAR DIAMETER	CONTRACTION JOINT SPACING
5½", 6, 6 ½"	NONE	12'
7, 7 ½"	1"	14'
8, 8 ½"	1 ¼"	15'
9, 9 ½"	1 ¼"	15'
10" & ABOVE	1 ½"	15'

TIE BAR TABLE

PAVEMENT DEPTH (D)	TIE BAR SIZE	TIE BAR LENGTH (L)	MAX. TIE BAR SPACING
< 10 ½"	NO. 4	30"	36"
≥ 10 ½"	NO. 5	36"	36"
	NO. 4 *	30"	24" **

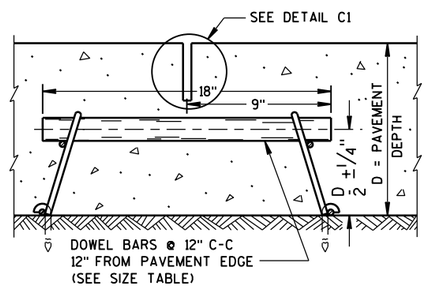
* SUBSTITUTE BENT BARS AT LONGITUDINAL JOINTS WHEN EQUIPMENT LIMITATIONS DURING CONSTRUCTION WARRANT (e.g. AUXILIARY LANES OR TURN LANES)

** CONFORM TO 15" MINUMUM SPACING FROM TRANSVERSE JOINTS; SPACING BETWEEN TIE BARS WILL BE 30" AT TRANSVERSE JOINTS.



PLAN VIEW

CONCRETE BASE CONTRACTION JOINT LOCATIONS



SECTION F-F

CONTRACTION JOINT

CONCRETE BASE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

6

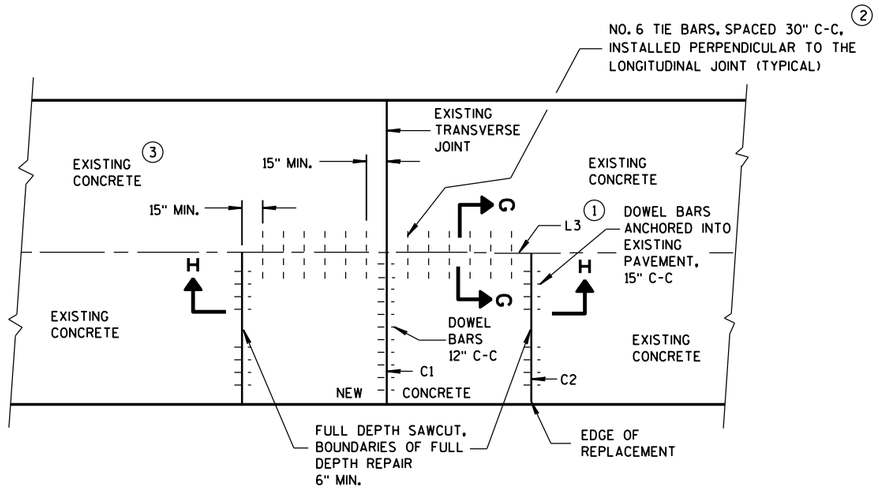
S.D.D. 13 C 15-6a

GENERAL NOTES

(1) USE AN ENGINEER-APPROVED BOND BREAKER (E.G. RELEASE AGENT, CURING COMPOUND) AT THE LONGITUDINAL JOINT IN LIEU OF TIE BARS FOR SINGLE LANE CONCRETE BASE REPAIRS UP TO 15 FEET IN LENGTH.

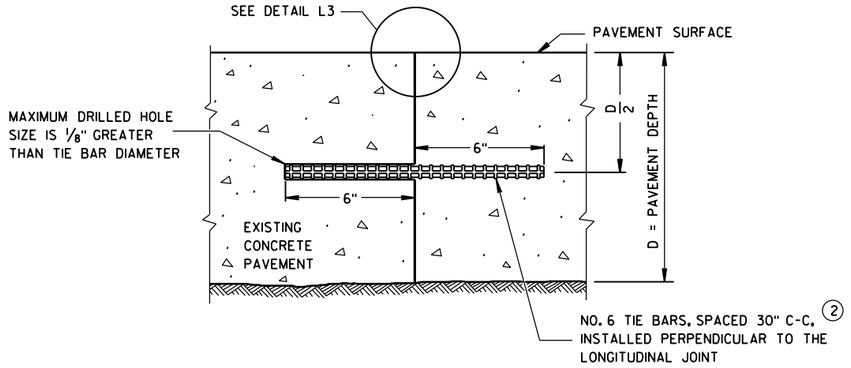
(2) ANCHOR TIE BARS INTO DRILLED HOLES WITH AN EPOXY.

(3) PAVEMENT THAT WAS IN PLACE PRIOR TO THE CONTRACT.



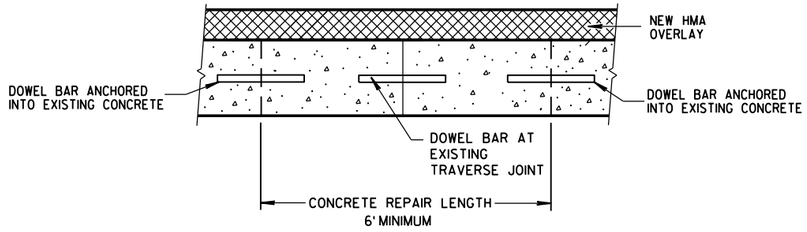
PLAN VIEW

SINGLE LANE CONCRETE BASE REPAIR



SECTION G-G

TIE BARS ANCHORED INTO EXISTING PAVEMENT



SECTION H-H

CONCRETE BASE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June, 2015 — DATE
/S/ Peter Kemp, P.E. — PAVEMENT SUPEI
FHWA

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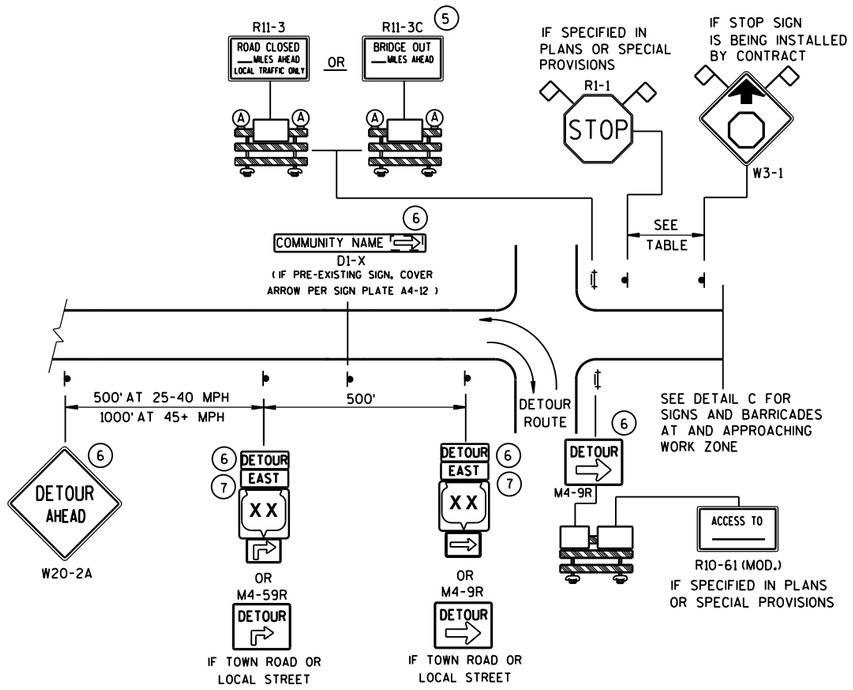
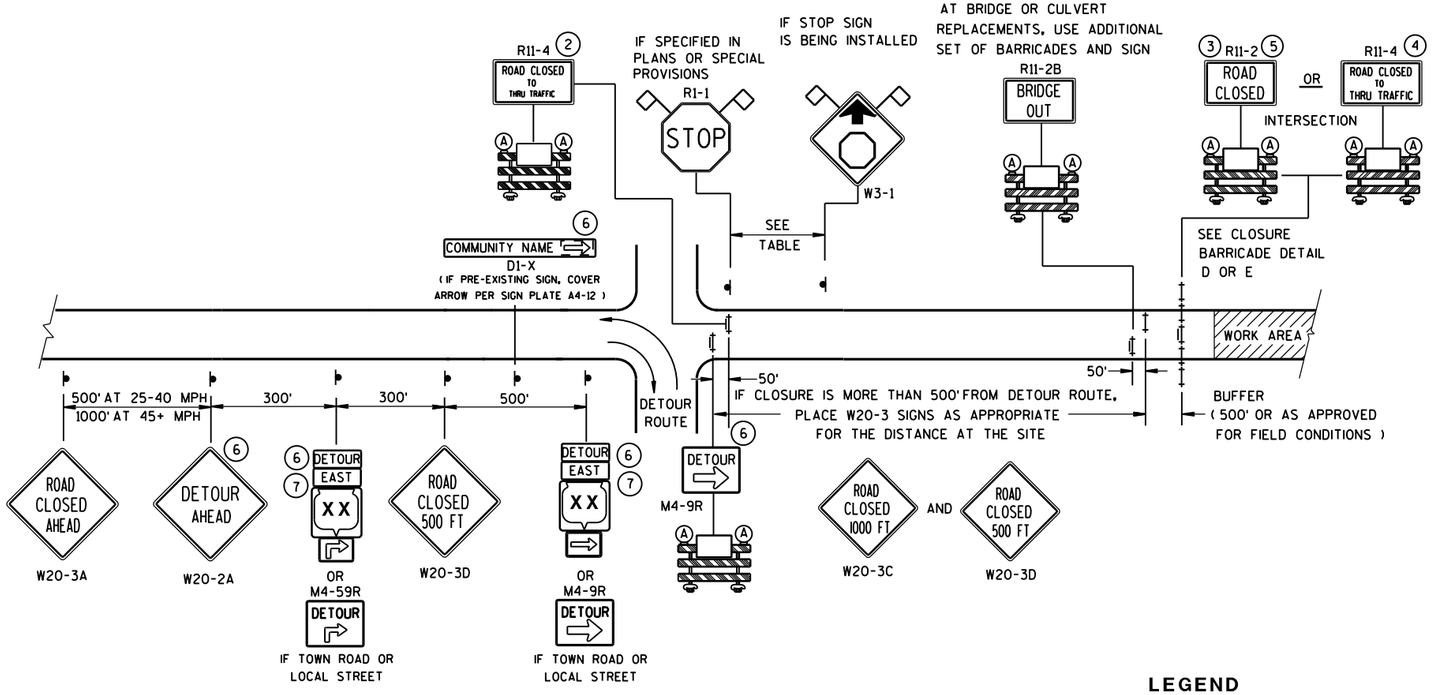
S.D.D. 13 C 15-6b



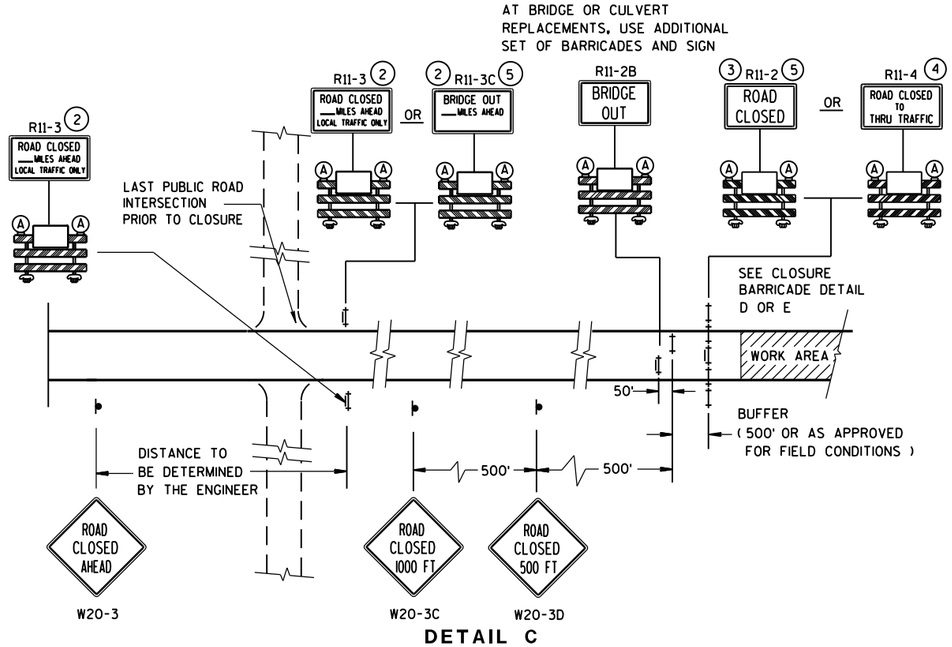


DETAIL A
MAINLINE CLOSURE WITH POSTED DETOUR

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)

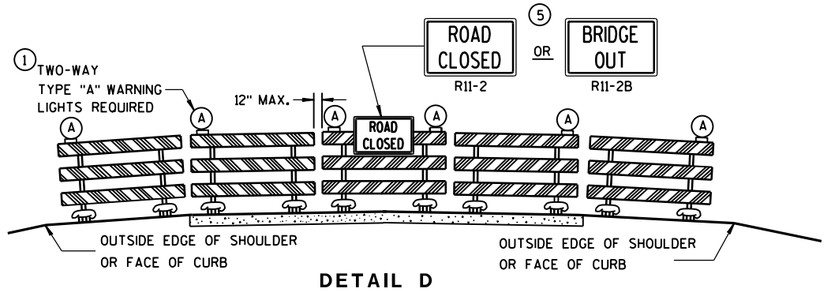
BARRICADES AND SIGNS FOR MAINLINE CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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

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

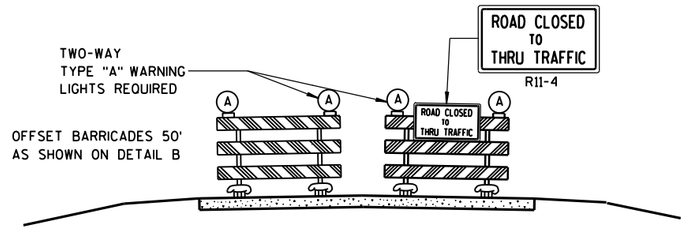
S.D.D. 15 C 2-6a



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

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

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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.

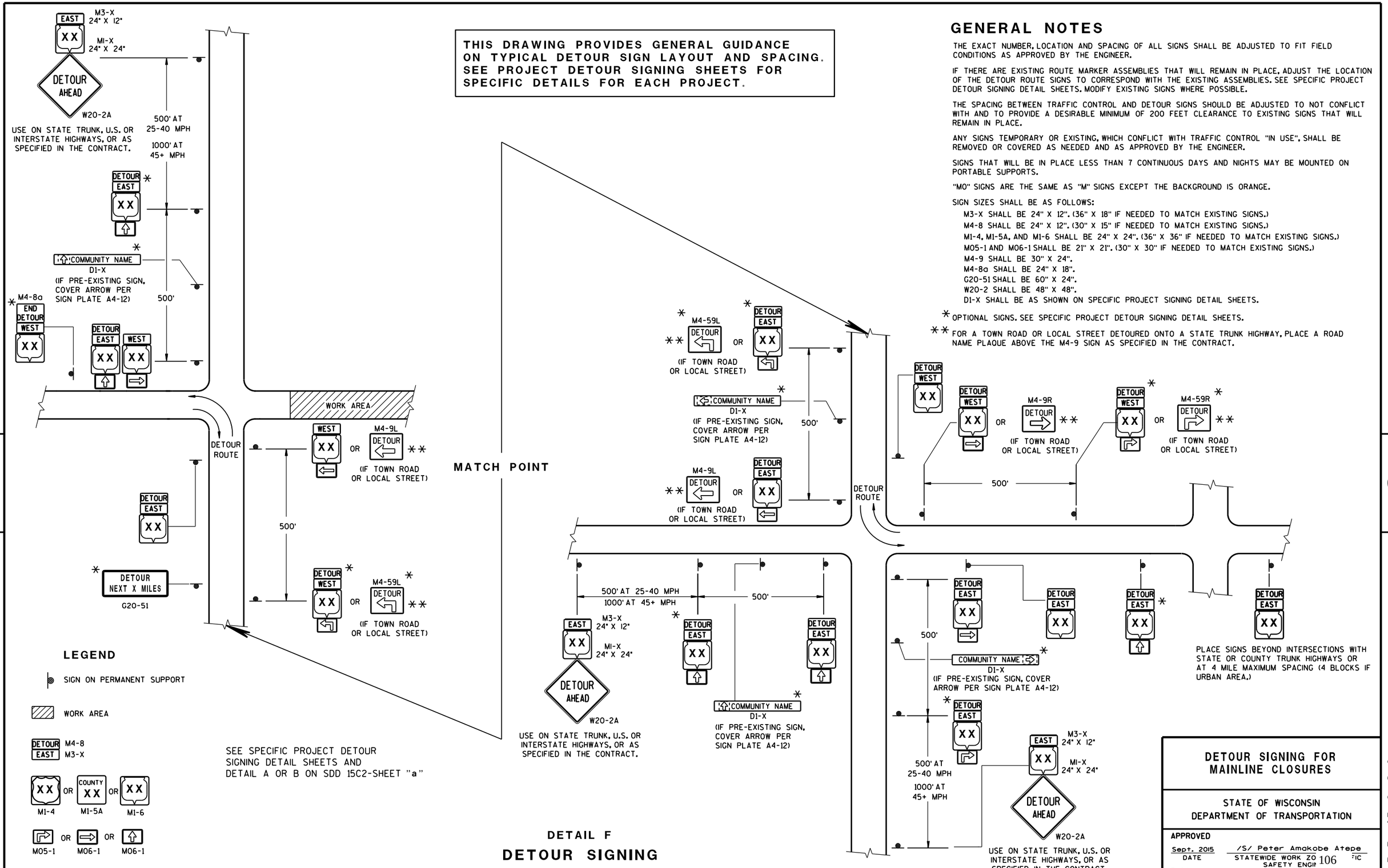
"MO" SIGNS ARE THE SAME AS "M" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

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.



LEGEND

- SIGN ON PERMANENT SUPPORT
- WORK AREA
- DETOUR EAST — M4-8 / M3-X
- XX OR COUNTY XX OR XX — M1-4 / M1-5A / M1-6
- MO5-1 OR MO6-1 OR MO6-1

SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS AND DETAIL A OR B ON SDD 15C2-SHEET "a"

DETAIL F

DETOUR SIGNING

DETOUR SIGNING FOR MAINLINE CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

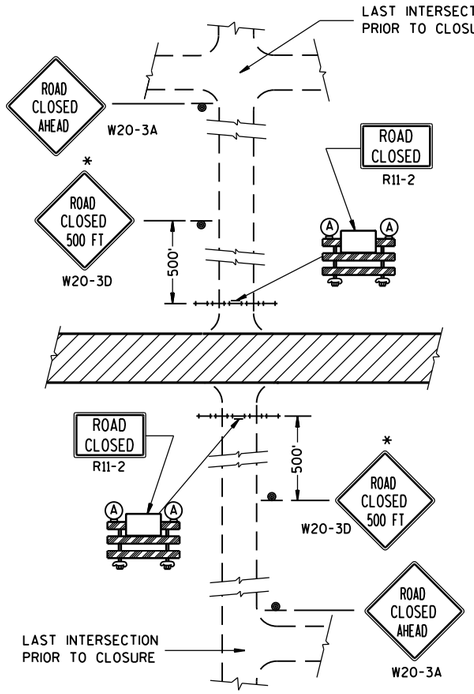
APPROVED

Sept. 2015 — DATE

/S/ Peter Amakobe Atepe
STATEWIDE WORK ZO[illegible] SAFETY ENGI[illegible]

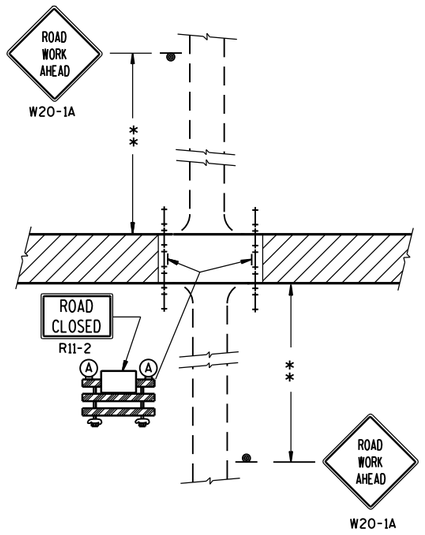
FHWA

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



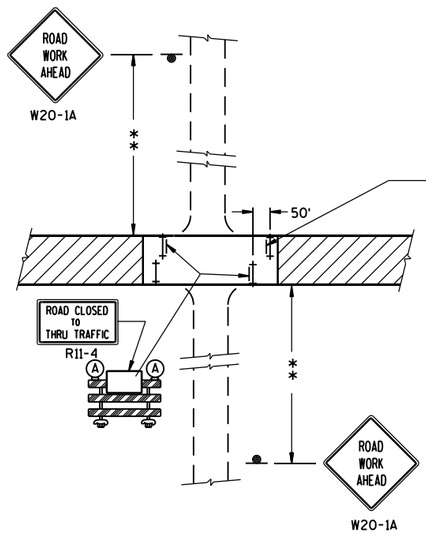
DETAIL 1

(NO ACCESS TO PROJECT)



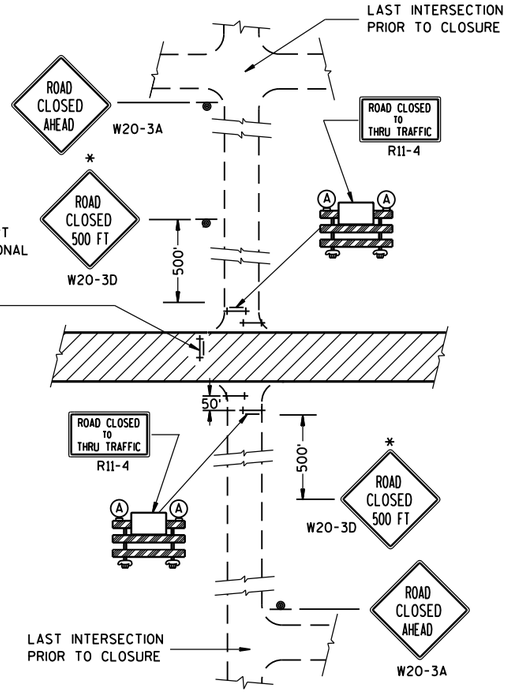
DETAIL 2

(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
Sept. 2015 — DATE
/S/ Peter Amakobe Atepe
STATEWIDE WORK ZO... SAFETY ENGI... — FHWA

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S.D.D. 15 C 3-3

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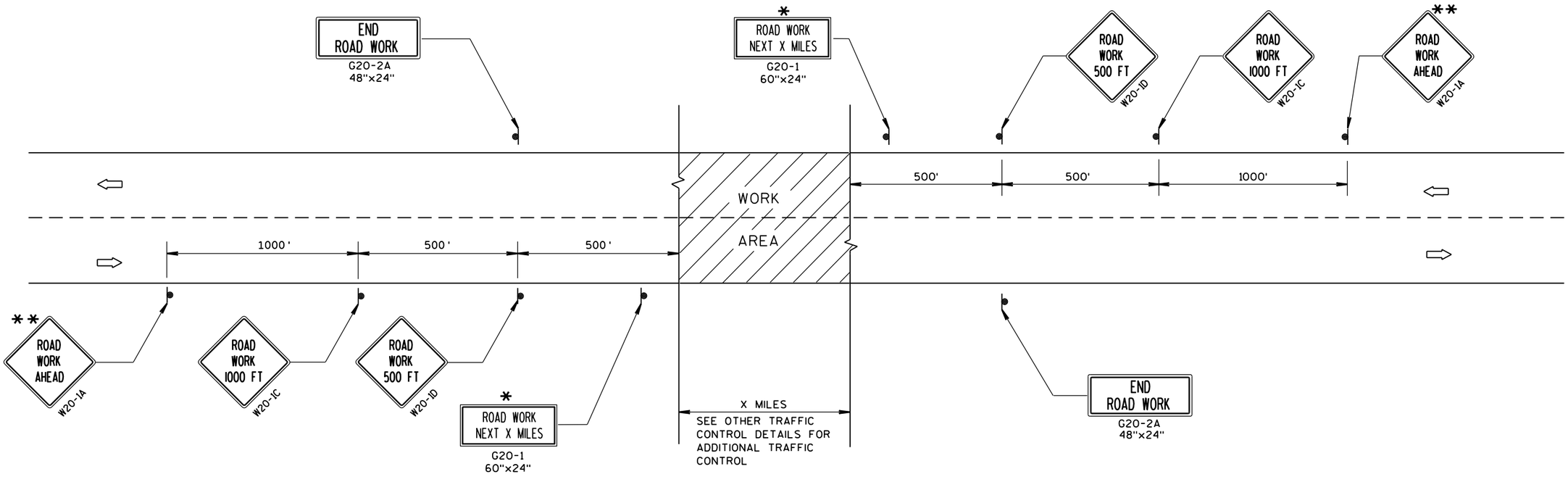
S.D.D. 15 C 3-3



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.

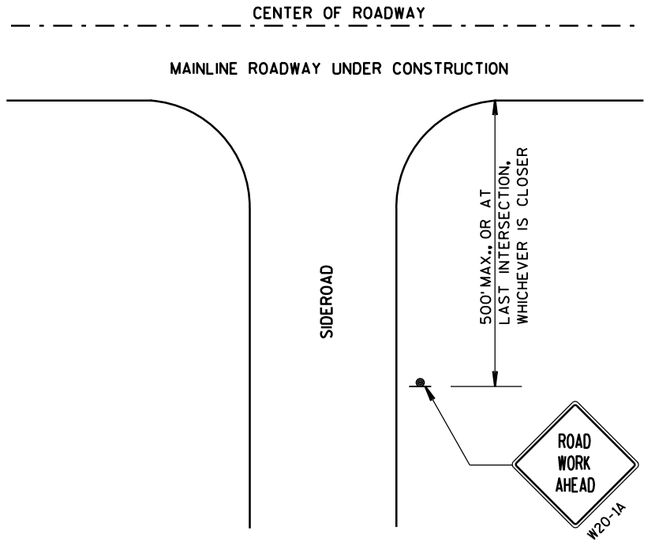
ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED.

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

Sept. 2015 — DATE

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

FHWA

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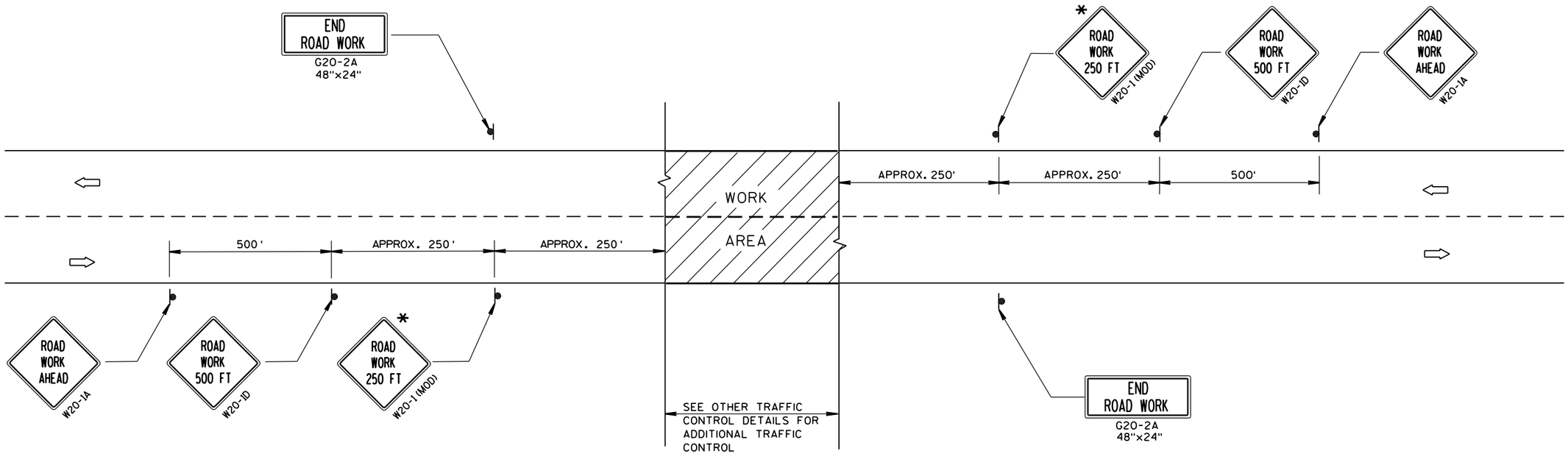
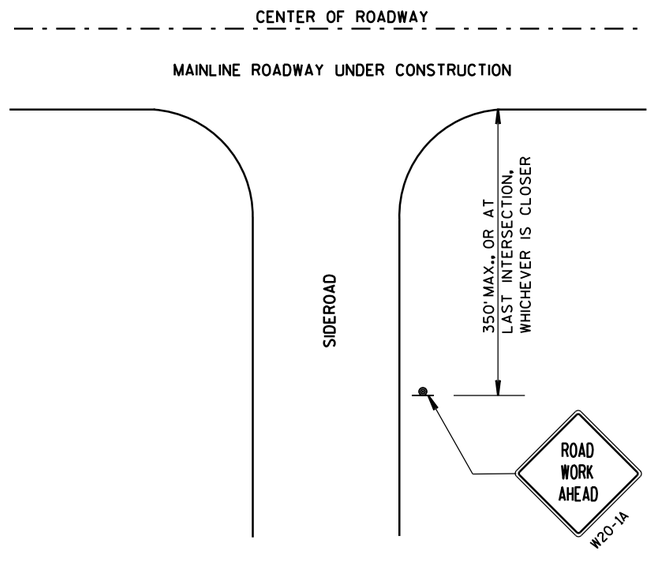
S.D.D. 15 C 4-3



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 DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS, 36"x36" SIGNS MAY BE USED INSTEAD OF 48"x48" SIGNS.

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.

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

LEGEND

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

TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40 M.P.H. OR LESS TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept. 2015 — DATE
/S/ Peter Amakobe Atepe — STATEWIDE WORK ZOI SAFETY ENGIN IC
FHWA

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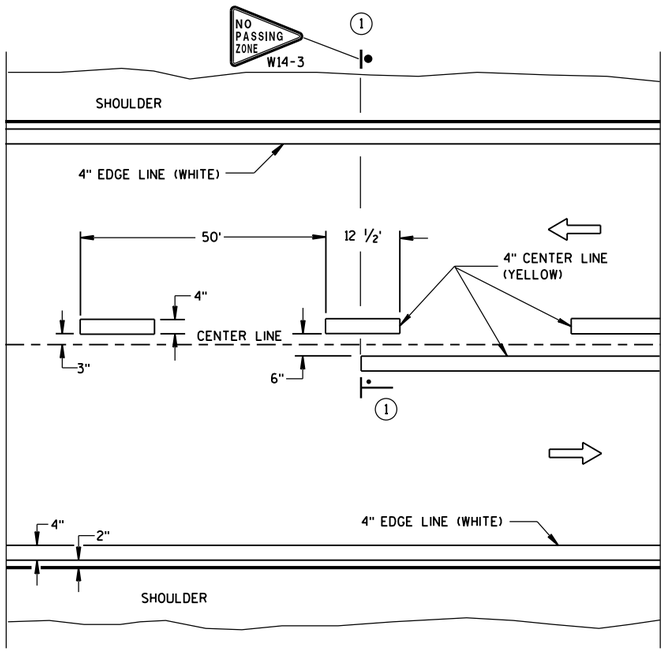
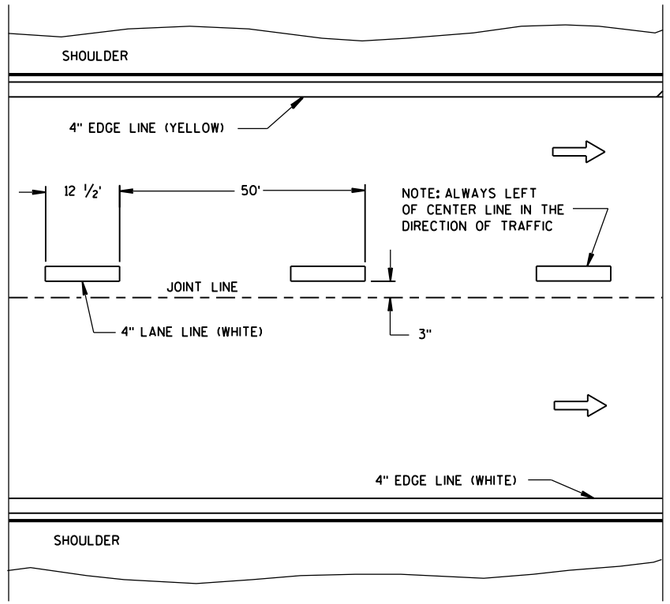


TWO WAY TRAFFIC



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) NO PASSING ZONE W14-3 SIGN SHALL BE LOCATED WITHIN 50 FEET OF THE "T" MARKING.

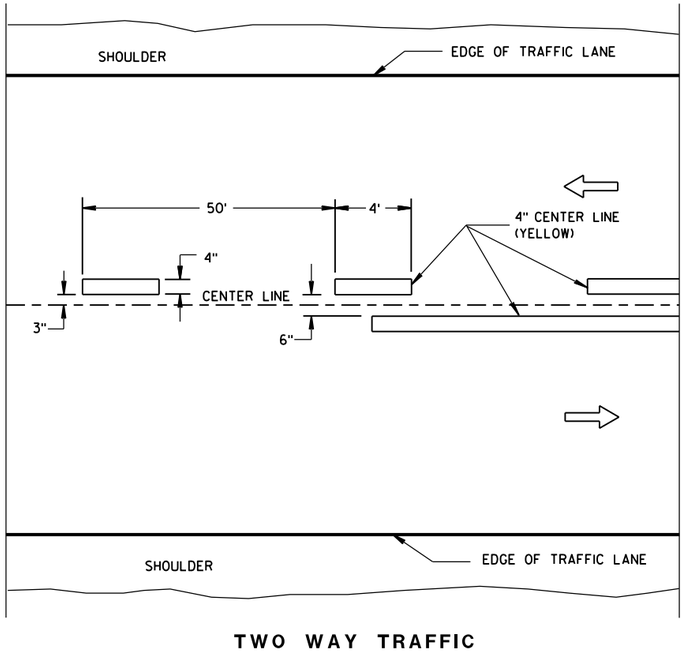
NOTE

ARROW SYMBOL (⇨) SHOWS DIRECTION OF TRAVEL

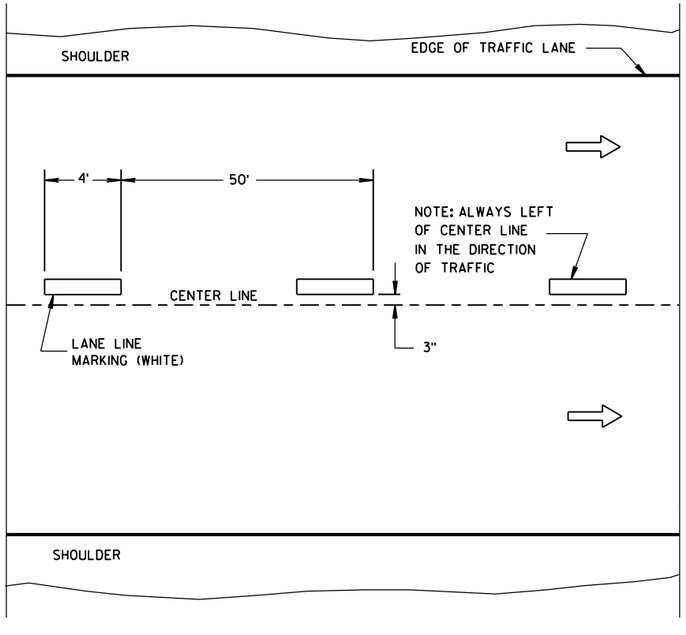
LEGEND

"T" MARKING

POST MOUNTED SIGN



TWO WAY TRAFFIC



ONE WAY TRAFFIC

TEMPORARY PAVEMENT MARKING

LONGITUDINAL MARKING (MAINLINE)	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED	
Sept., 2016	/S/ Matthew R. Rauch
DATE	STATE SIGNING AND MAR[illegible]INEER
FHWA	

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S.D.D. 15 C 8-17a

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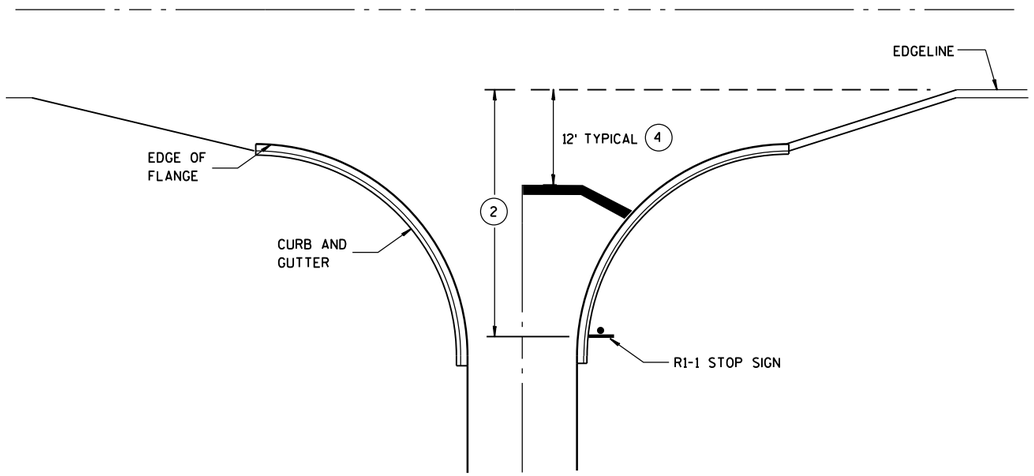
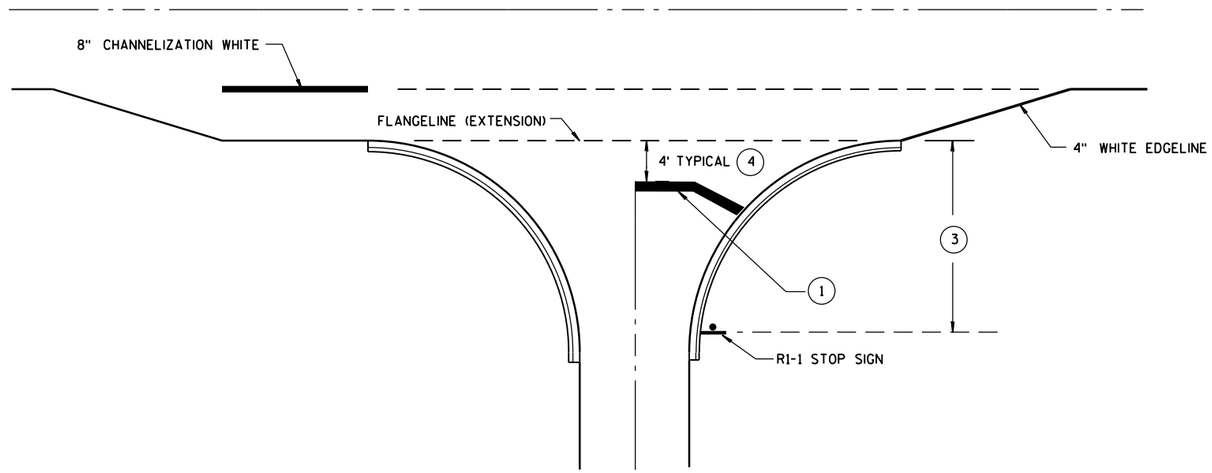
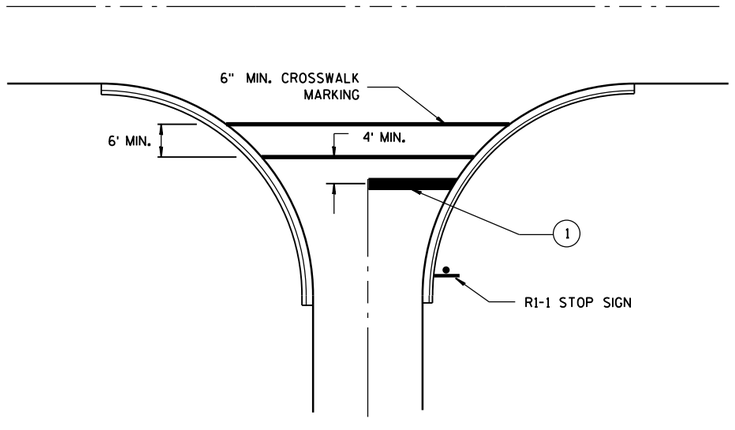
S.D.D. 15 C 8-17a



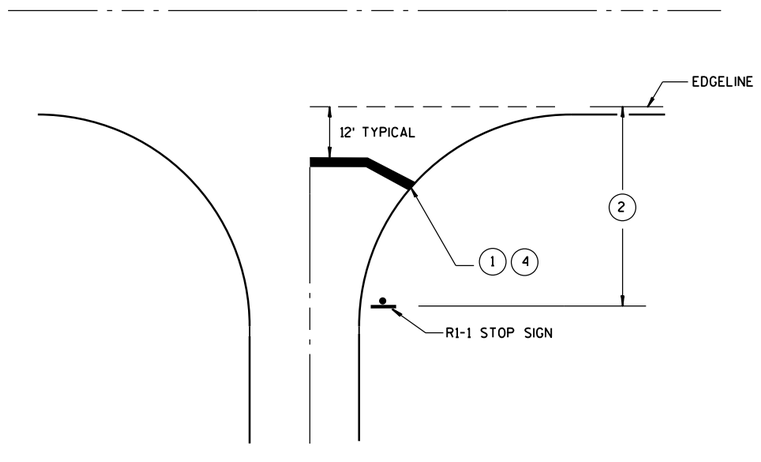
TYPICAL STOP LINE PAVEMENT MARKING WITH CURB AND GUTTER



TYPICAL STOP LINE PAVEMENT MARKING FOR SIDEROADS WITH RIGHT TURN LANE



TYPICAL STOP LINE PAVEMENT MARKING FOR SIDEROADS WITH CROSSWALK MARKING



TYPICAL STOP LINE PAVEMENT MARKING WITHOUT CURB AND GUTTER

GENERAL NOTES

1. 18-INCH STOP LINES MAY BE DELETED OR ADDED BY THE PROJECT ENGINEER BASED ON VISIBILITY AND SIGHT LINES.
2. IF STOP SIGN IS LESS THAN OR EQUAL TO 40 FEET FROM THE EDGELINE THAN NO STOP LINE IS REQUIRED.
3. IF STOP SIGN IS LESS THAN OR EQUAL TO 30 FEET FROM THE FLANGELINE EXTENSION THAN NO STOP LINE IS REQUIRED.
4. MOVE CLOSER TO EDGE OF TRAVEL LANE AS NEEDED FOR VISIBILITY AND SIGHT LINES. (NO CLOSER THAN 4 FEET).

STOP LINE AND CROSSWALK PAVEMENT MARKING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

4-18-2016
DATE

/S/ Matthew R. Rauch
STATE SIGNING AND MAR[illegible] ENGINEER

FHWA

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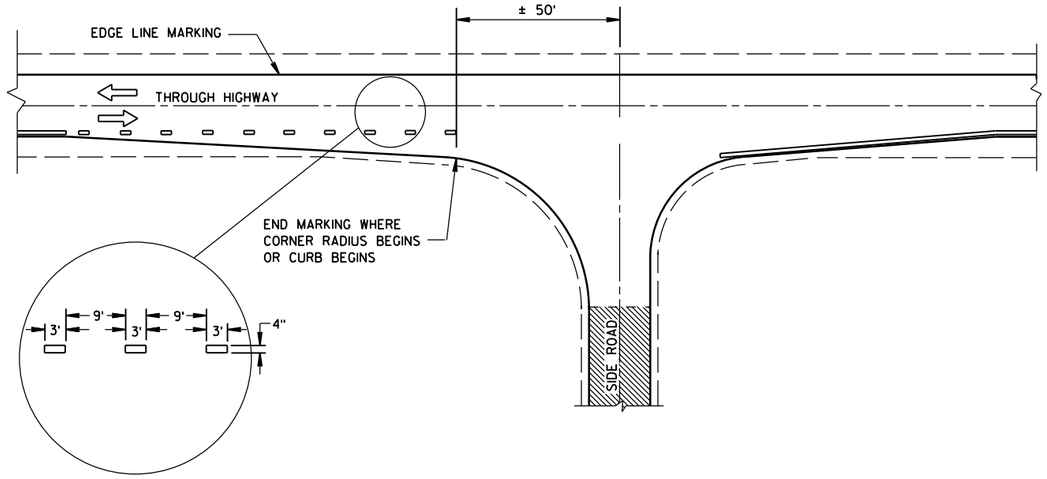
S.D.D. 15 C 33-2



MINOR INTERSECTION WITHOUT CURBS

GENERAL NOTES

EDGE LINES SHALL BE OMITTED THROUGH INTERSECTIONS. EDGE LINES SHALL BE CONTINUED THROUGH DRIVEWAYS.

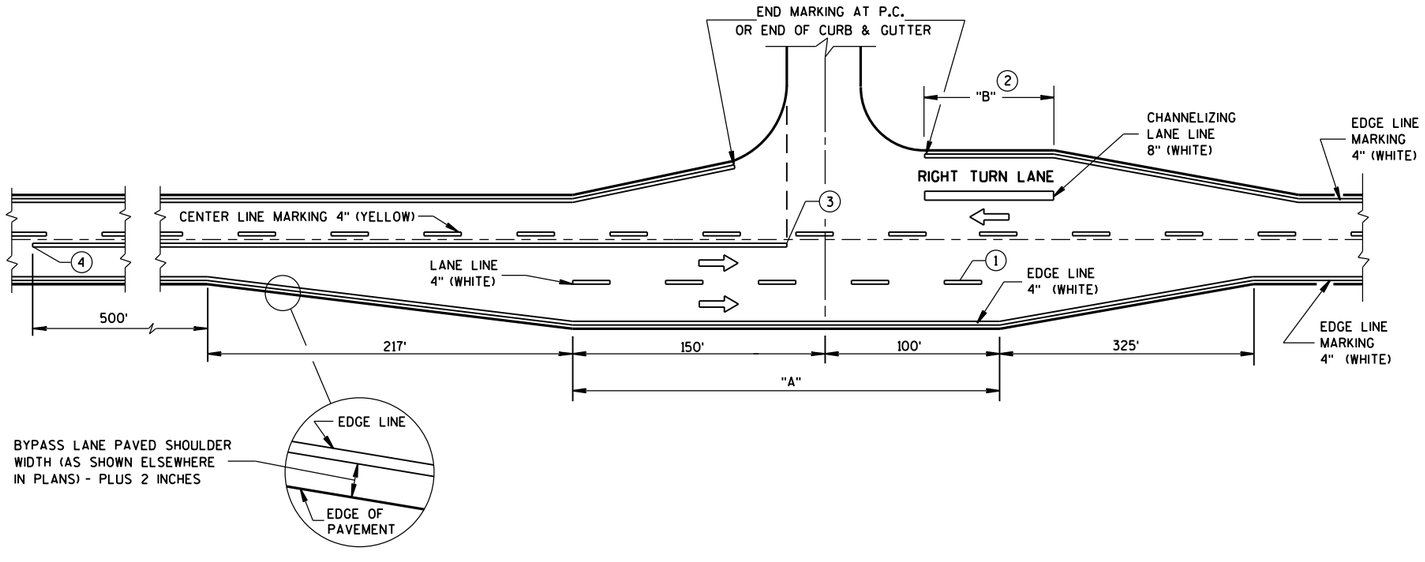
(1) WHEN DISTANCE "A" IS LESS THAN 250 FEET, OMIT LANE LINE.

(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 LANES)

PAVEMENT MARKING
(INTERSECTIONS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

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S.D.D. 15 C 35-1a

GENERAL NOTES

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

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

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

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

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.

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

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

TABLE A

S \ W	SHOULDER TAPER LENGTH (FEET) 4	6	8	10	BUFFER SPACE (FEET)
30	20	30	40	50	200
35	30	45	55	70	250
40	40	55	75	90	305
45	60	90	120	150	360
50	70	100	135	170	425
55	75	110	150	185	495

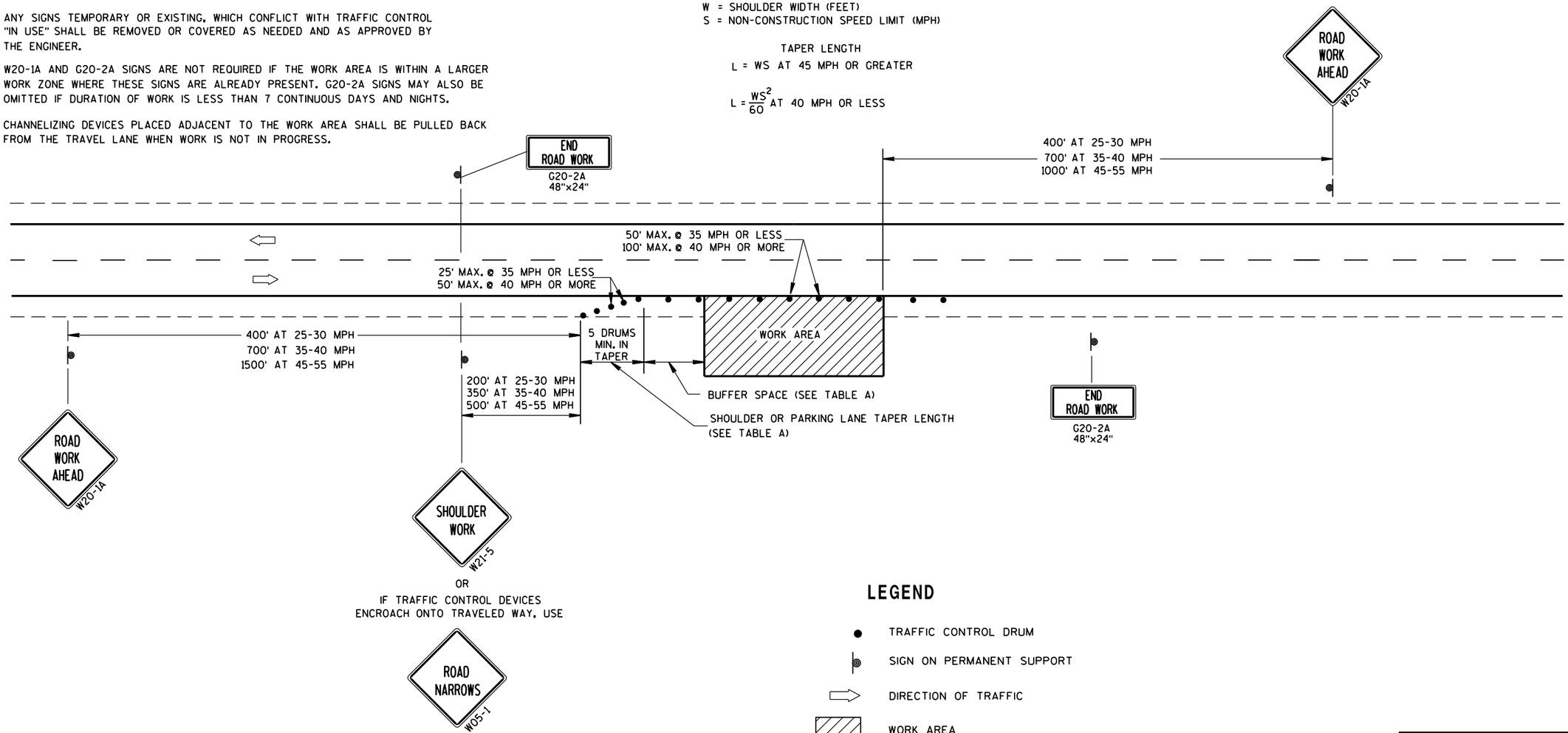
W = SHOULDER WIDTH (FEET)
S = NON-CONSTRUCTION SPEED LIMIT (MPH)

TAPER LENGTH

L = WS AT 45 MPH OR GREATER

$L = \frac{WS^2}{60}$ AT 40 MPH OR LESS

SHOULDER TAPER LENGTH = $\frac{1}{3}L$



LEGEND

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

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

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

July 14, 2015 — DATE

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

FHWA

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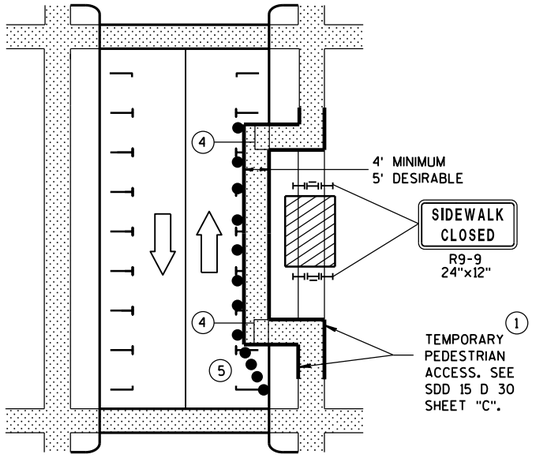
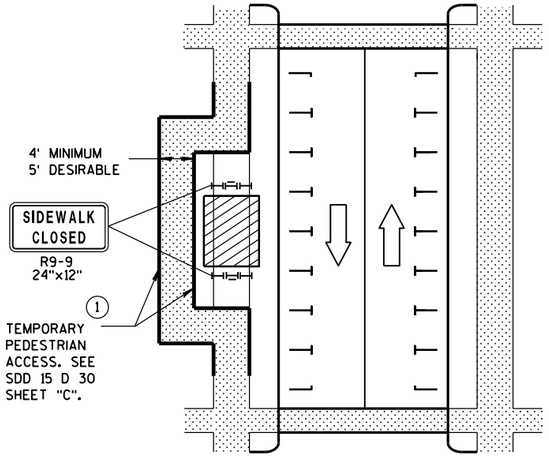
S.D.D. 15 D 28-3

NOTE: MAY BE USED ON ROADWAY WITH POSTED SPEED OF LESS THAN 40 MPH.

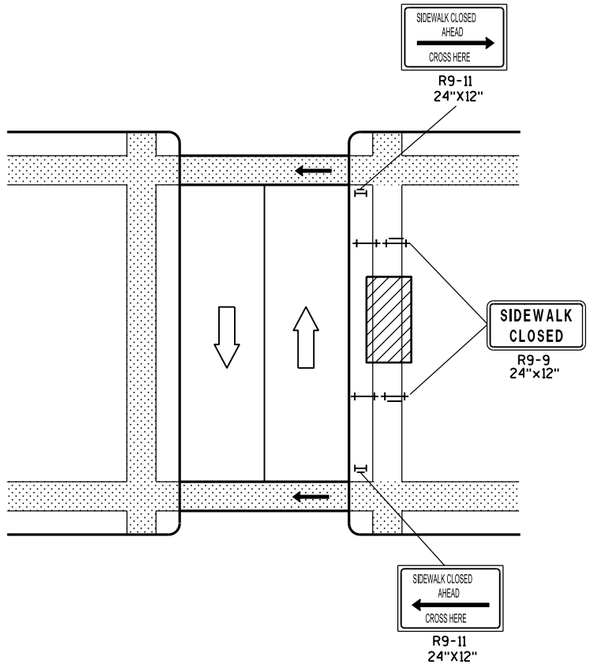


MID-BLOCK SIDEWALK CLOSURE IN PARKING LANE

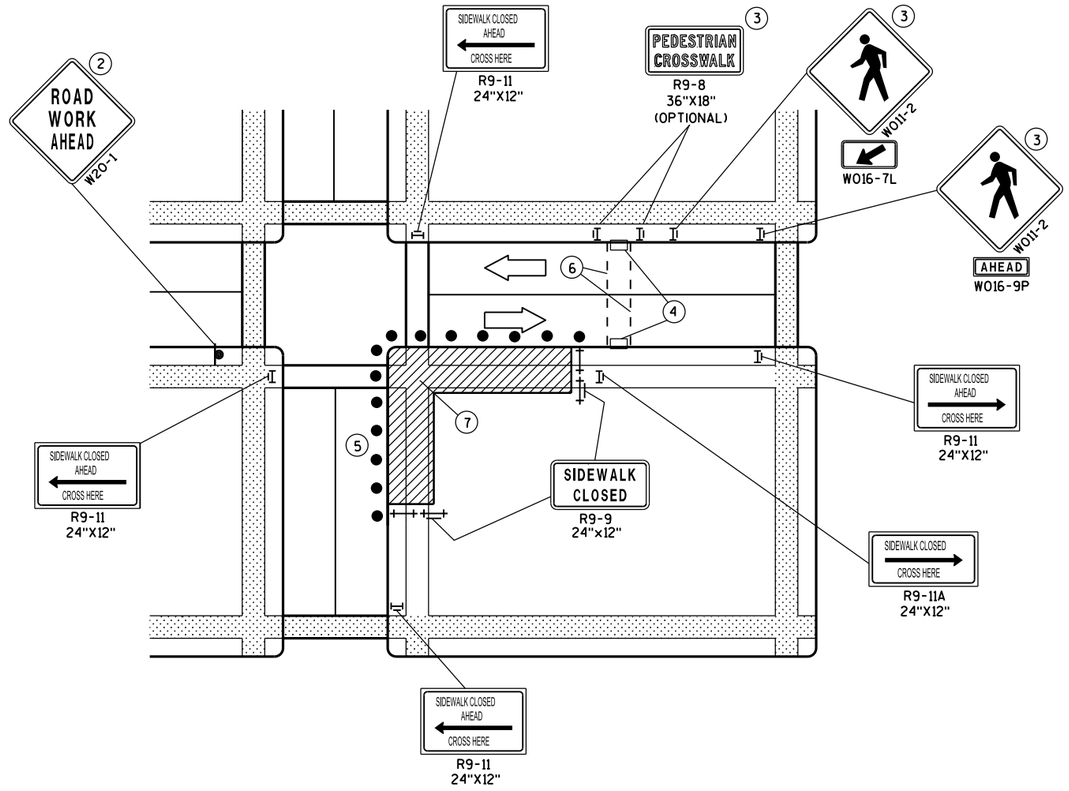
NOTE: LAYOUT SAME AS ABOVE.



SIDEWALK DIVERSION



MID-BLOCK SIDEWALK CLOSURE



CORNER SIDEWALK CLOSURE WITH TEMPORARY CROSSWALK

GENERAL NOTES

WHEN CLOSING OR RELOCATING CROSSWALKS OR SIDEWALKS, PROVIDE DETECABLE TEMPORARY FACILITIES AND INCLUDE ACCESSIBILITY FEATURES CONSISTENT WITH EXISTING PEDESTRIAN FACILITIES.

TEMPORARY TRAFFIC CONTROL DEVICES FOR PEDESTRIANS ARE SHOWN. OTHER DEVICES MAY BE NECESSARY TO CONTROL VEHICULAR TRAFFIC. STAGE WORK, AS NECESSARY, TO PROVIDE A TEMPORARY PEDESTRIAN ACCESS ROUTE AT ALL TIMES. FOR ROADWAYS WITH NO AVAILABLE DETOURS, MAINTAIN ONE OPEN SIDEWALK AT ALL TIMES.

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

FOR NIGHTTIME CLOSURE USE TYPE "A" FLASHING WARNING LIGHTS ON BARRICADES, SUPPORTING SIGNS AND CLOSING SIDEWALK. USE TYPE "C" STEADY BURN LIGHTS ON CHANNELIZING DEVICES SEPARATING THE WORK AREA FROM VEHICULAR TRAFFIC.

PEDESTRIAN TRAFFIC SIGNAL DISPLAY CONTROLLING CLOSED CROSSWALK SHALL BE COVERED OR DEACTIVATED.

POST MOUNTED SIGNS LOCATED ADJACENT TO A SIDEWALK SHALL HAVE A 7 FOOT MINIMUM CLEARANCE FROM THE BOTTOM OF THE SIGN TO THE SIDEWALK SURFACE.

ALTERNATE SIDEWALK WORK BETWEEN LEFT AND RIGHT SIDE OF ROADWAY TO MAINTAIN PEDESTRIAN ACCESS.

(1) IF SIDEWALK CLOSURE AFFECTS AN ACCESSIBLE AND DETECTABLE FACILITY, MAINTAIN ACCESSIBILITY AND DETECTABILITY ALONG THE ALTERNATE PEDESTRIAN ROUTE.

(2) "ROAD WORK AHEAD" SIGNS ARE NOT REQUIRED IF THE SIDEWALK CLOSURE OCCURS WITHIN A LARGER WORK ZONE WHERE ADVANCE WARNING SIGNS ARE ALREADY PRESENT, OR IF THE WORK AREA AND EQUIPMENT ARE MORE THAN 2 FEET BEHIND THE CURB.

(3) IF TEMPORARY PEDESTRIAN CROSSWALK IS NOT PROVIDED, OMIT R9-8 AND W011-2 SIGN ASSEMBLIES. IF PROVIDED INCLUDE ON BOTH SIDES OF THE CROSSWALK.

(4) TEMPORARY CURB RAMPS. SEE SDD 15 D 30 SHEET "B".

(5) DRUMS OR BARRICADES AT 25 FOOT SPACING. STREET PARKING SHALL BE PROHIBITED FOR AT LEAST 50 FEET IN ADVANCE OF THE MID-BLOCK CROSSWALK.

(6) TEMPORARY PAVEMENT MARKING FOR CROSSWALK LINES.

(7) LIMIT WORK TO ONE QUADRANT AT A TIME TO MINIMIZE PEDESTRIAN DISRUPTION.

LEGEND

- SIGN ON PERMANENT SUPPORT
- UNDER PEDESTRIAN TRAFFIC
- WORK AREA
- PEDESTRIAN CHANNELIZATION DEVICE
- TYPE II BARRICADE WITH/WITHOUT SIGN (ALL WITH ONE WARNING LIGHT, TYPE A, LOW-INTENSITY FLASHING)
- TYPE III BARRICADE WITH/WITHOUT SIGN (ALL WITH ONE WARNING LIGHT, TYPE A, LOW-INTENSITY FLASHING)
- DIRECTION OF TRAFFIC
- TRAFFIC CONTOL DRUM

TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

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S.D.D. 15 D 30-3a

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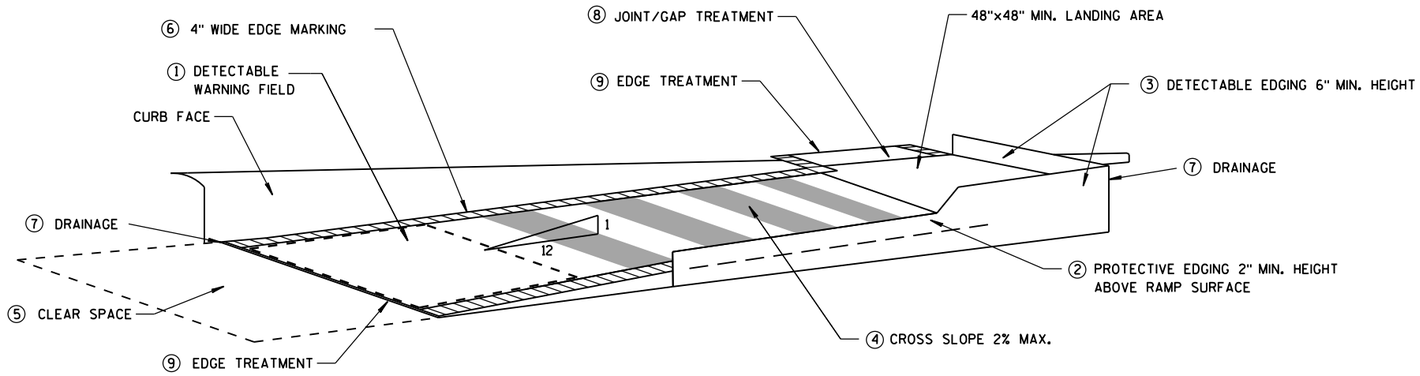
S.D.D. 15 D 30-3a



TEMPORARY CURB RAMP PARALLEL TO CURB

GENERAL NOTES

NOTIFY THE BUS COMPANY 7 DAYS IN ADVANCE OF THE BUS STOP RELOCATION.

ALTERNATE SIDEWALK WORK BETWEEN LEFT AND RIGHT SIDE OF ROADWAY TO MAINTAIN PEDESTRIAN ACCESS.

① CURB RAMPS SHALL BE 48" MIN. WIDTH WITH A FIRM, STABLE AND SLIP RESISTANT SURFACE. INSTALL CONTRASTING DETECTABLE WARNING FIELD AT PEDESTRIAN STREET CROSSINGS. REFER TO SDD 8D5 SHEET "E".

② PROTECTIVE EDGING WITH A 2" MIN. HEIGHT SHALL BE INSTALLED WHEN A CURB RAMP OR LANDING PLATFORM HAS A VERTICAL DROP OF 6" OR GREATER OR HAS A SIDE APRON SLOPE STEEPER THAN 1:3 (33%). PROTECTIVE EDGING SHOULD BE CONSIDERED WHEN CURB RAMPS OR LANDING PLATFORMS HAVE A VERTICAL DROP OF 3" OR MORE.

③ DETECTABLE EDGING WITH 6" MIN. HEIGHT AND CONTRASTING COLOR SHALL BE INSTALLED ON ALL CURB RAMP LANDINGS WHERE THE WALKWAY CHANGES DIRECTION (TURNS).

④ CURB RAMPS AND LANDINGS SHALL HAVE A 1:50 (2%) MAX. CROSS-SLOPE.

⑤ CLEAR SPACE OF 48"X48" MIN. SHALL BE PROVIDED ABOVE AND BELOW THE CURB RAMP.

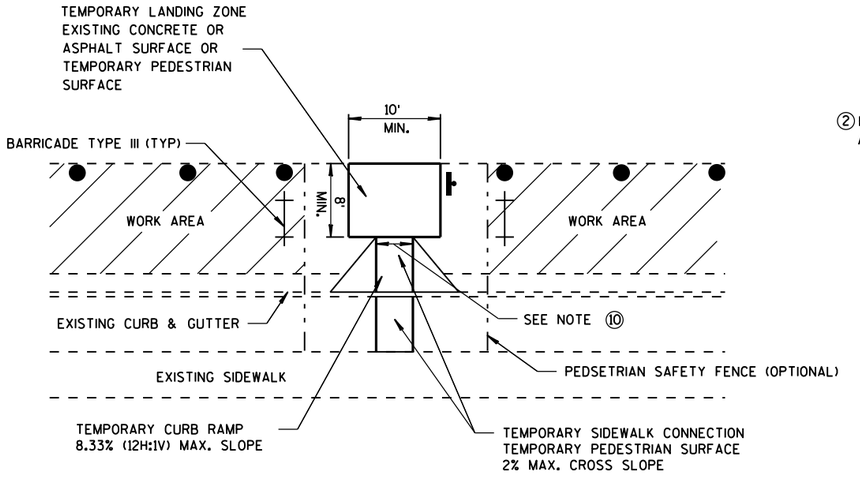
⑥ THE CURB RAMP WALKWAY EDGE SHALL BE MARKED WITH A YELLOW COLOR, 4" WIDE MARKING, UNLESS A CONTRASTING DETECTABLE WARNING FIELD IS PROVIDED.

⑦ DO NOT RESTRICT WATER FLOW IN THE GUTTER SYSTEM.

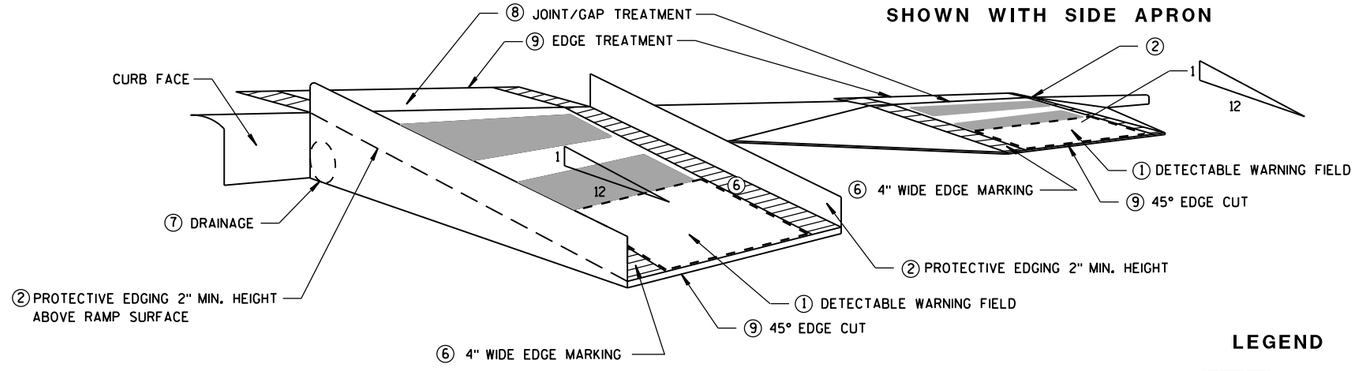
⑧ LATERAL JOINTS OR GAPS BETWEEN SURFACES SHALL BE LESS THAN 1/2" WIDTH.

⑨ CHANGES BETWEEN SURFACE HEIGHTS SHALL NOT EXCEED 1/2". LATERAL EDGES SHALL BE VERTICAL UP TO 1/4" HIGH, AND BEVELED AT 1:2 BETWEEN 1/4" AND 1/2".

⑩ 5' WIDE MIN. WITH PEDSETRIAN SAFETY FENCE, 10' WIDE MIN. WITHOUT PEDESTRIAN SAFETY FENCE.



TEMPORARY BUS STOP PAD



SHOWN WITH SIDE APRON

SHOWN WITH PROTECTIVE EDGE

TEMPORARY CURB RAMP PERPENDICULAR TO CURB

LEGEND

WORK AREA

TYPE III BARRICADE

TRAFFIC CONTOL DRUM

TRAFFIC CONTROL, TEMPORARY ADA COMPLIANT PEDESTRIAN ACCOMMODATION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

June 2016 — DATE

/S/ Peter Amakobe Atepe — STATEWIDE WORK ZO SAFETY ENGI IC

FHWA

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S.D.D. 15 D 30-3b

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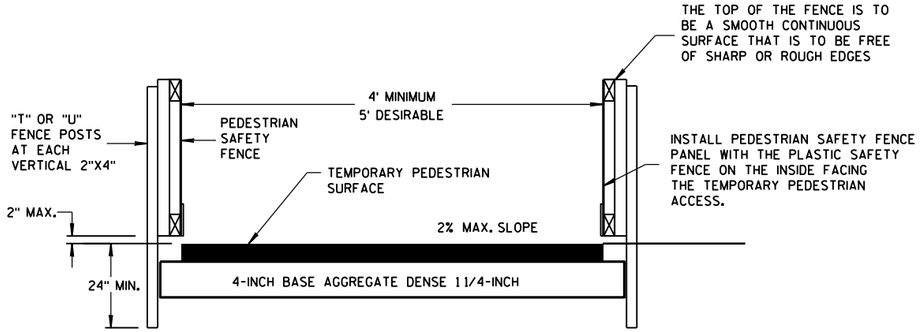
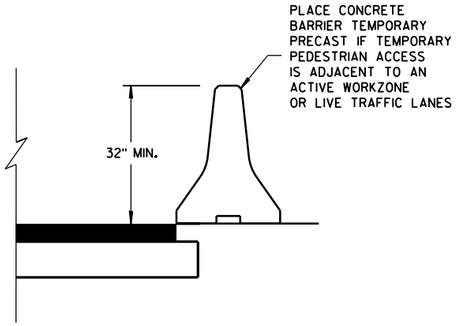
S.D.D. 15 D 30-3b

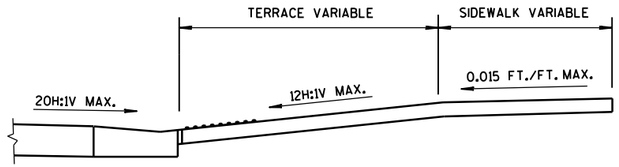




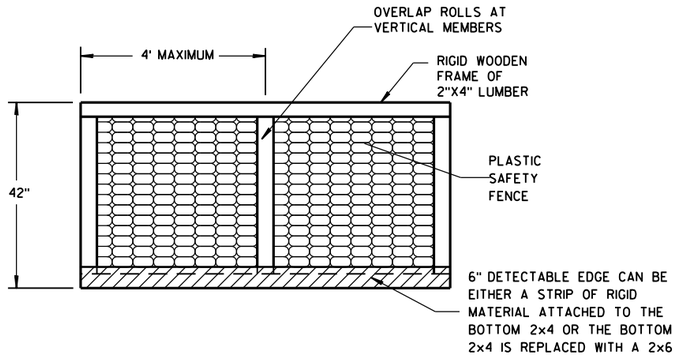
TEMPORARY PEDESTRIAN ACCESS

GENERAL NOTES

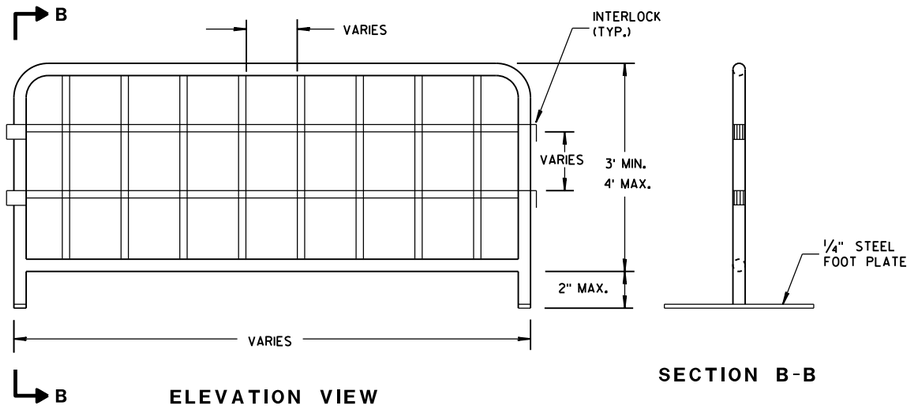
(1) INTERCHANGEABLE WITH THE PEDESTRIAN SAFETY FENCE.



SECTION A-A



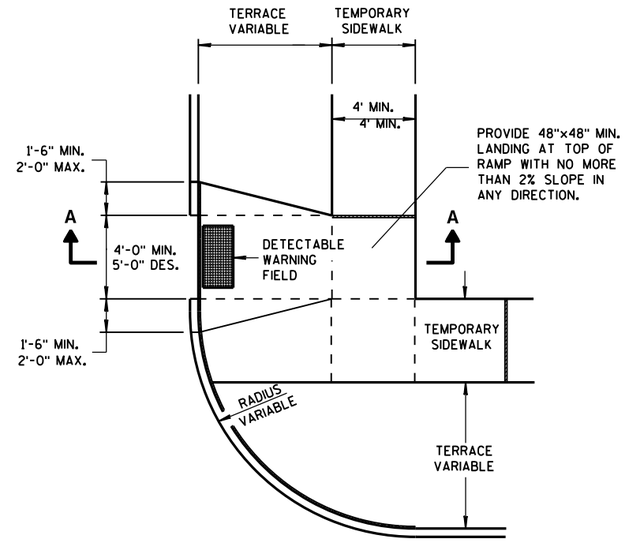
PEDESTRIAN SAFETY FENCE



ELEVATION VIEW

SECTION B-B

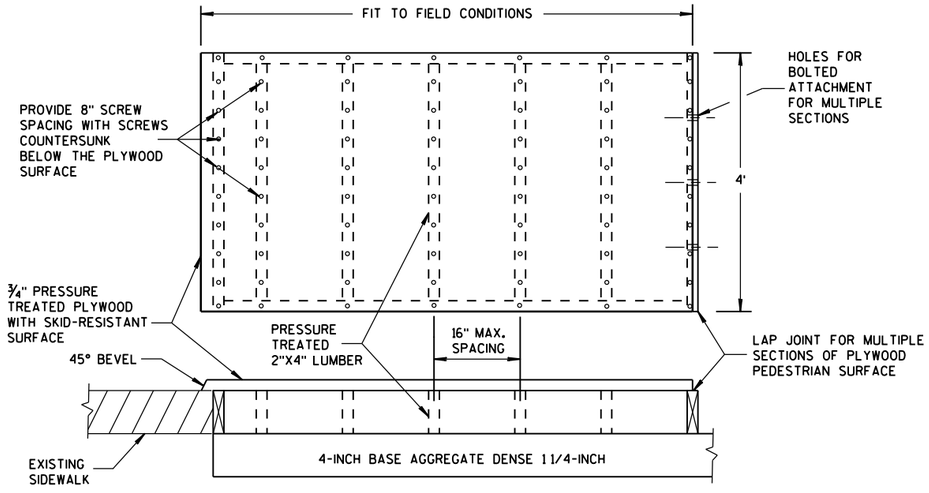
TEMPORARY PEDESTRIAN STEEL BARRICADE (1)



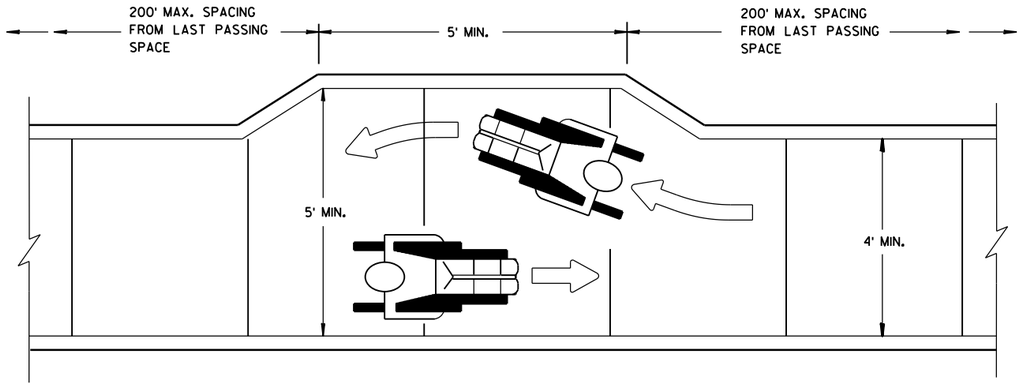
PLAN VIEW

TEMPORARY TYPE 3 RAMP

(OUTSIDE OF CROSSWALK AREA)



TEMPORARY PEDESTRIAN SURFACE PLYWOOD



NARROW SIDEWALK PASSING DETAIL

TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June 2016 — DATE
/S/ Peter Amakobe Atepe — STATEWIDE WORK ZON SAFETY ENGIN IC
FHWA

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S.D.D. 15 D 30-3c

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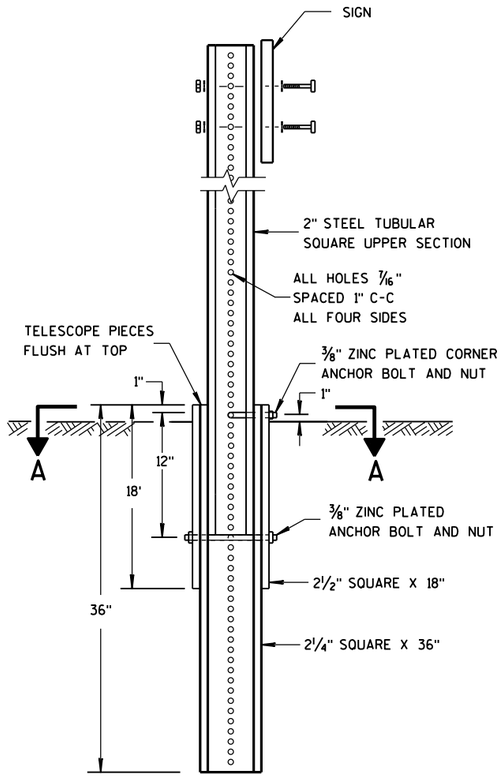
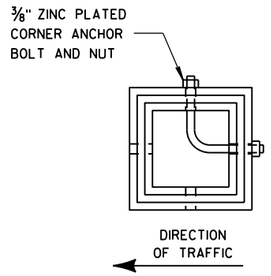
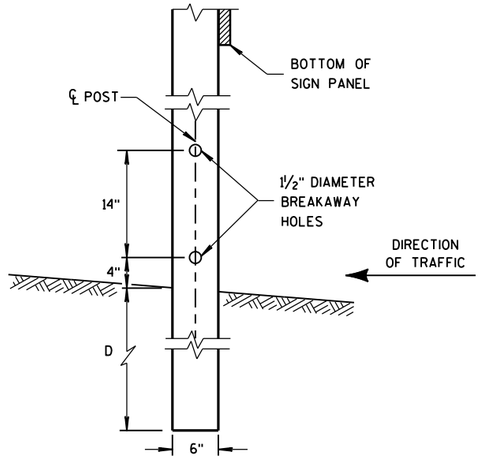
S.D.D. 15 D 30-3c



DETAIL OF TUBULAR STEEL SIGN POST



SECTION A-A



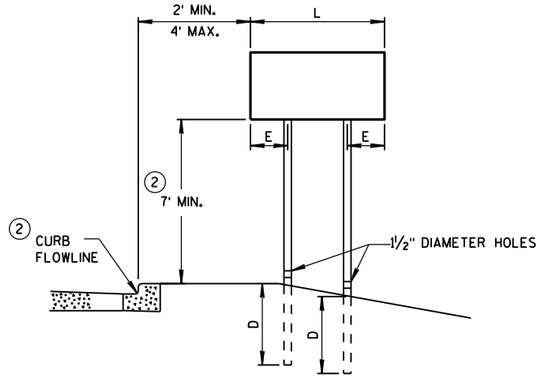
4"x6" WOOD POST MODIFICATION

GENERAL NOTES

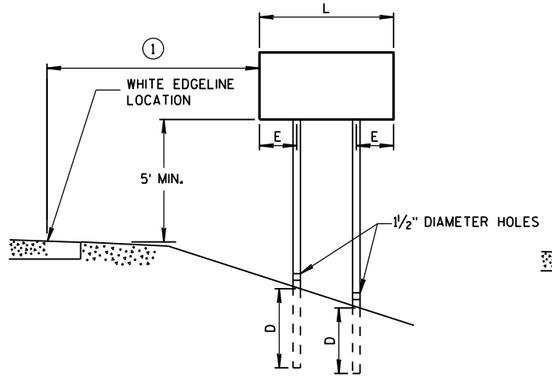
(1) 6 FEET FROM THE EDGE OF PAVEMENT (EDGE LINE LOCATION) UNLESS OTHERWISE DIRECTED BY THE PROJECT ENGINEER. LATERAL OFFSET SHOULD BE ADJUSTED TO AVOID THE DITCH FLOWLINE.

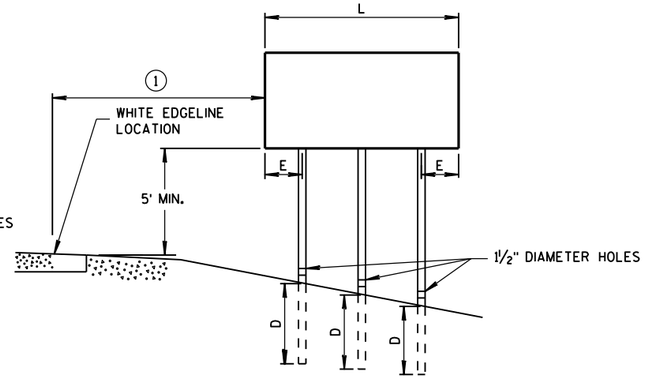
(2) THE EXISTENCE OF CURB AND GUTTER DOES NOT IN ITSELF MANDATE THE VERTICAL CLEARANCE ILLUSTRATED. THAT HEIGHT IS TYPICALLY MEASURED WHERE THERE IS SIDEWALK ADJACENT TO THE ROADWAY OR PARKING IS PERMITTED. IN THE ABSENCE OF SIDEWALK, VERTICAL CLEARANCE IS MEASURED FROM THE TOP OF THE CURB. IF NO SIDEWALK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

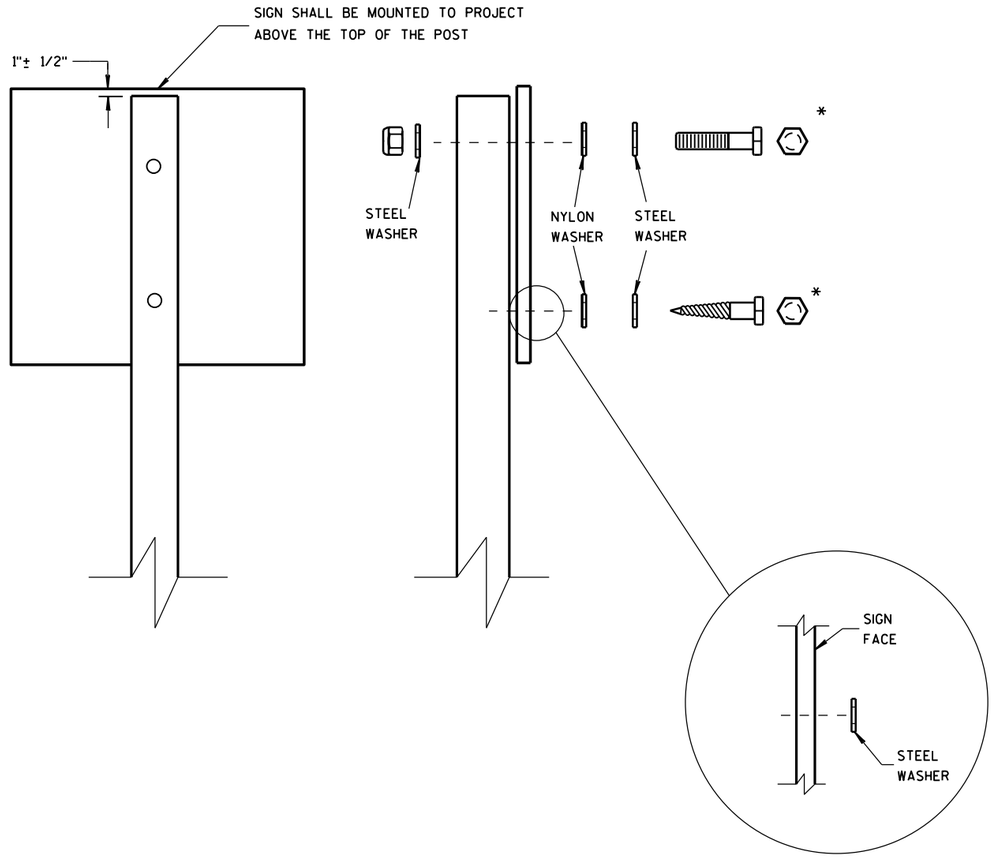
SEE NOTE (3)

TEMPORARY TRAFFIC CONTROL FIXED MESSAGE SIGNS

STATE OF WISCONSIN DEPARTMENT OF TRANSPOR

6

S.D.D. 15 D 38-1a



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

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S.D.D. 15 D 38-1b

S.D.D. 15 D 38-1b

ATTACHMENT OF SIGNS TO POSTS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

Feb. 2015 — DATE

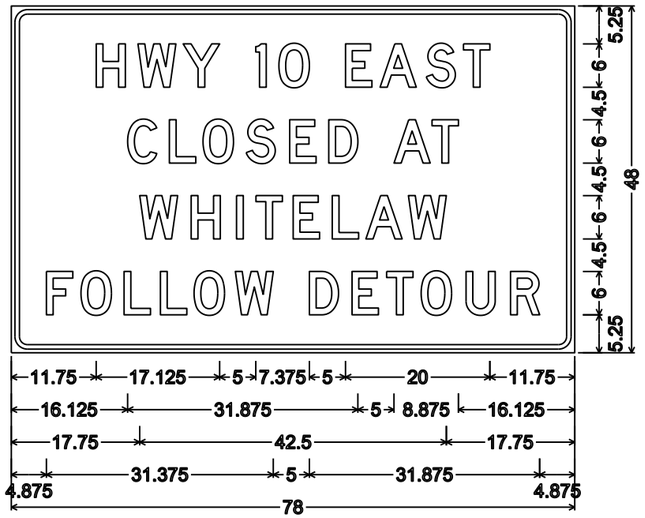
/S/ Travis Feltes — STATE TRAFFIC ENGINEER

FHWA

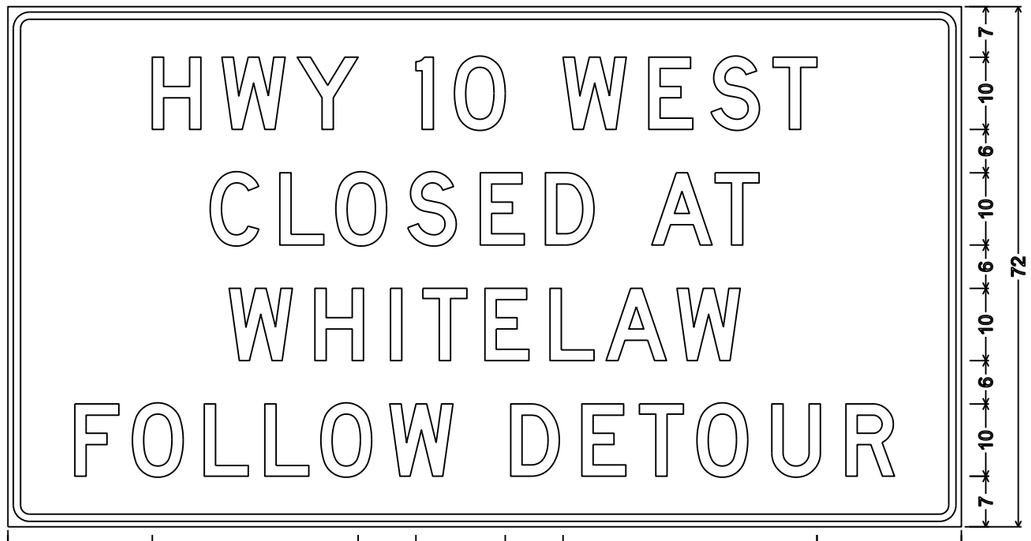
SIGN

NOTES

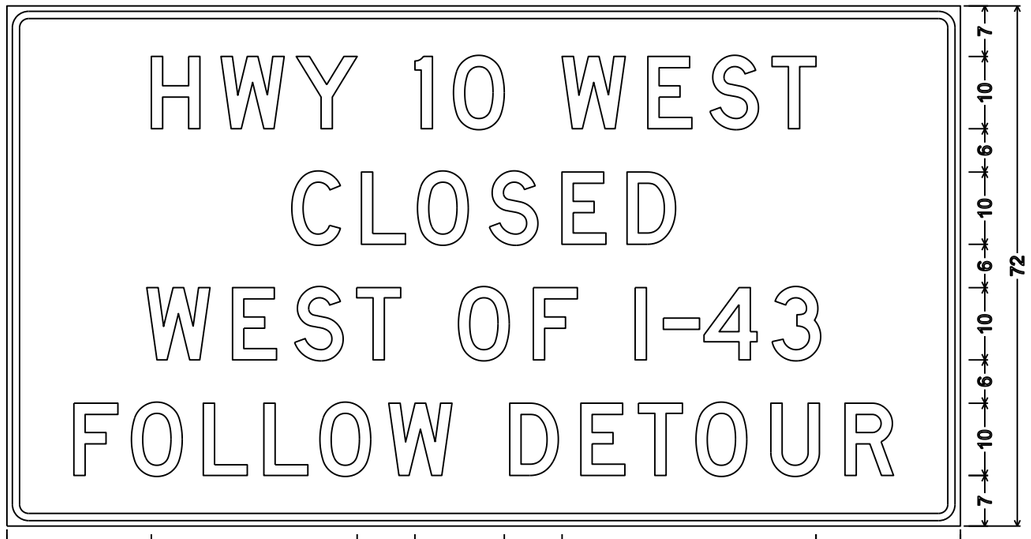
1. Fixed Message Type II Signs - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Message Series - D



2.250" Radius, 0.625" Border, 0.500" Indent



3.000" Radius, 1.000" Border, 0.750" Indent



3.000" Radius, 1.000" Border, 0.750" Indent

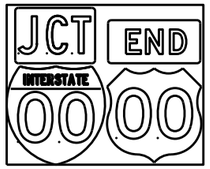
7

7

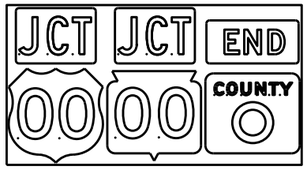
PROJECT NO: 1500-27-71	HWY: USH 10	COUNTY: MANITOWOC	TEMPORARY SIGNING	SHEET NO: 119	E

TYPICAL ASSEMBLIES

J1-1

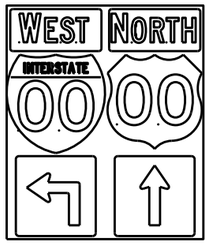


J1-2

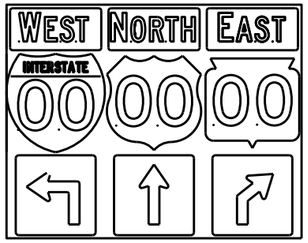


J1-3

J2-1



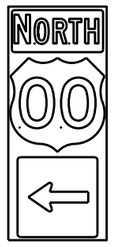
J2-2



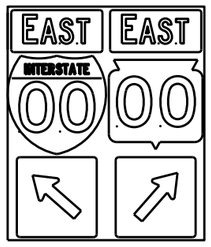
J2-3

JV

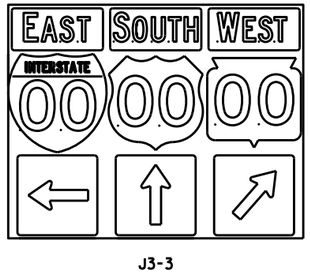
(Typical Vertical J-Assembly
See Note 10 and 11)



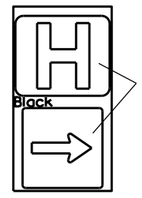
J3-1



J3-2



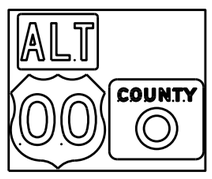
J3-3



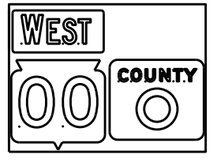
Blue Background

JH-1

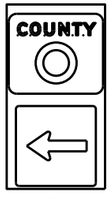
J4-1



J4-2



J4-2



J13-1

J12-1

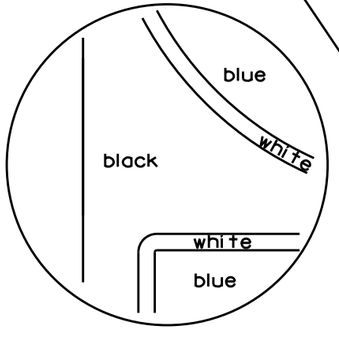
J32-1

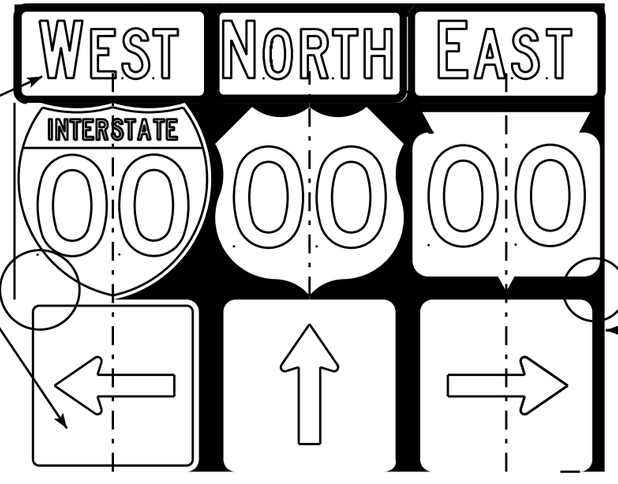
J33-1

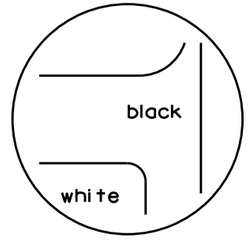
J23-1

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

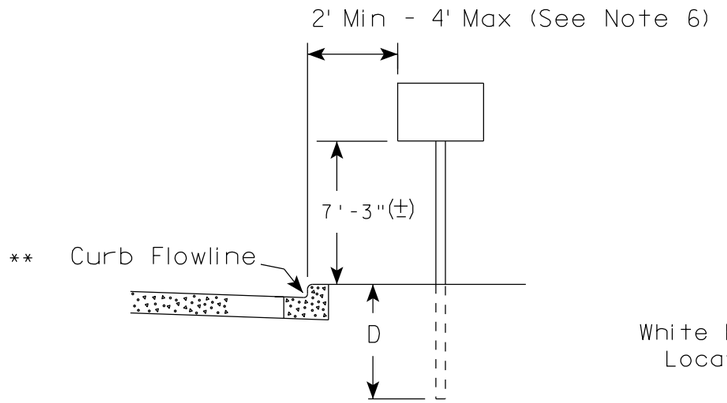
APPROVED Matthew R Rauch
for State Traffic Engineer

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

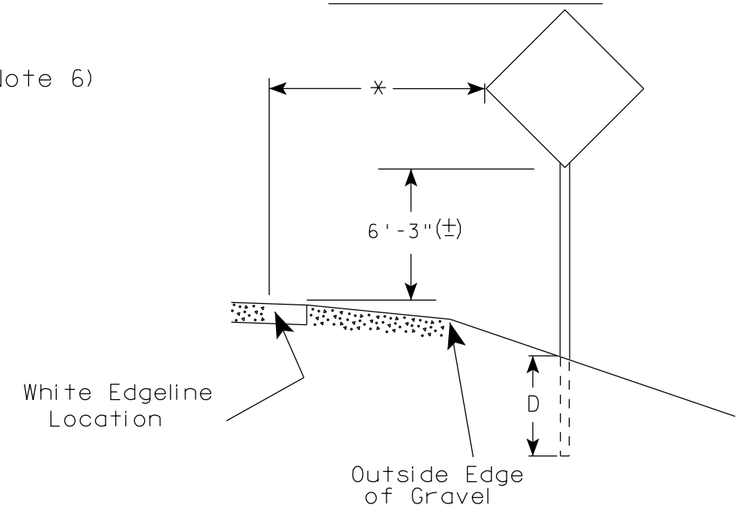
PROJECT NO: SHEET NO: E

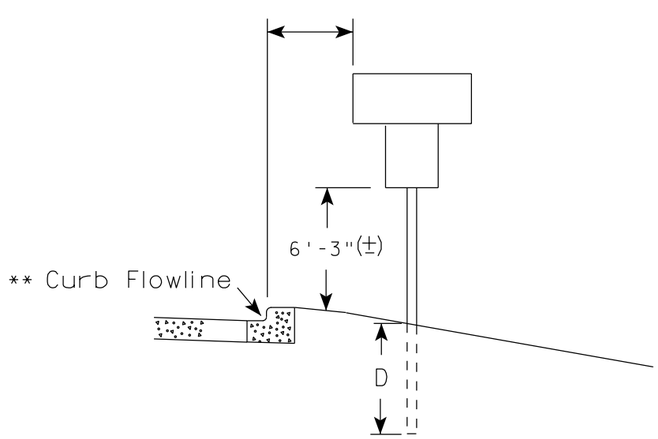
FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A21S.DGN PLOT DATE : 06-FEB-2014 14:10 PLOT BY : mscsja PLOT NAME :
WISDOT/CADDS SHEET 42

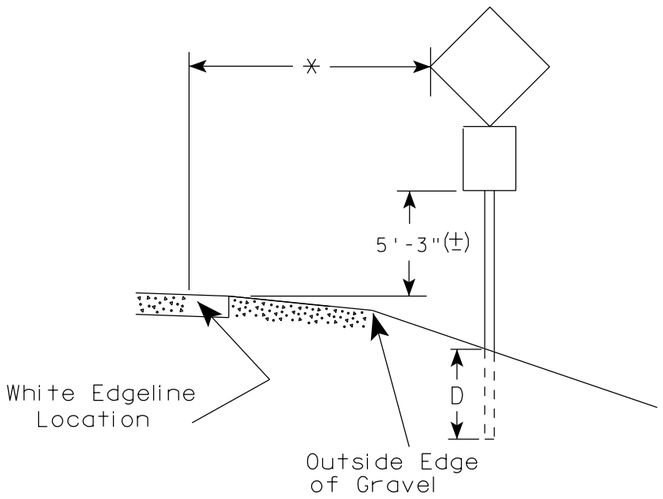
URBAN AREA



RURAL AREA (See Note 2)







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

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

POST EMBEDMENT DEPTH

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

GENERAL NOTES

1. Signs wider than 4 feet or 20 sq.ft or larger, shall be mounted on multiple posts. Refer to plate A4-4.
2. If signs are mounted on 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" (±).

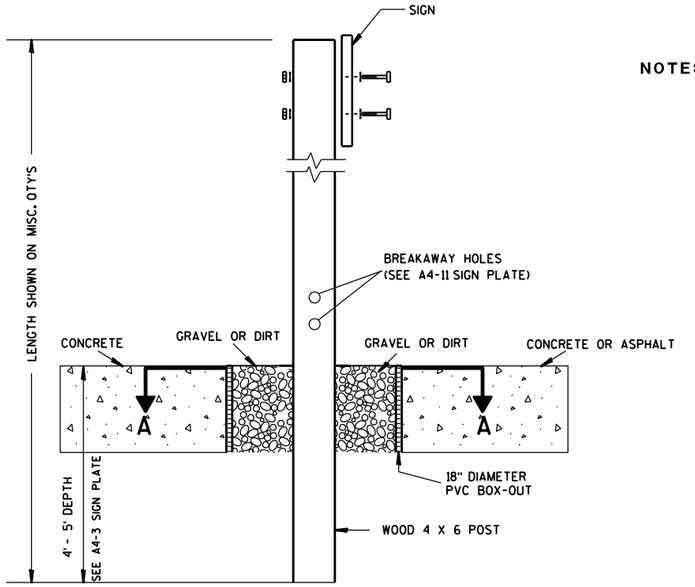
TYPICAL INSTALLATION OF PERMANENT TYPE II SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

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

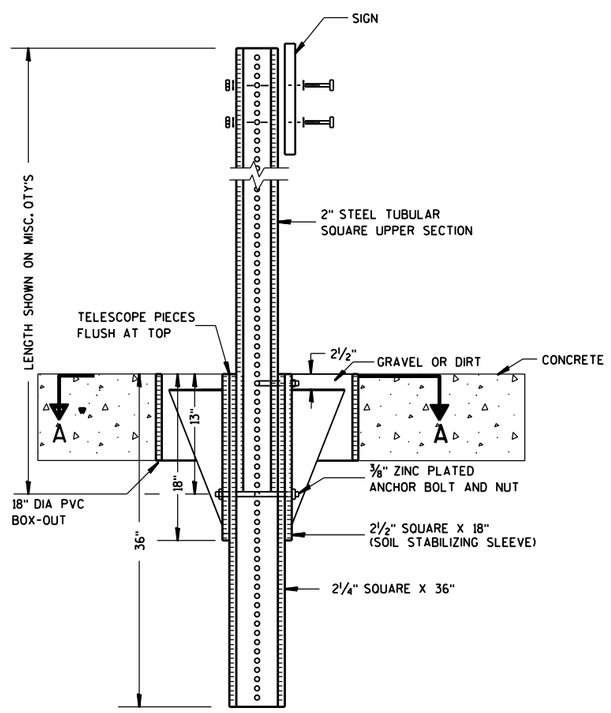
PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E



ELEVATION VIEW

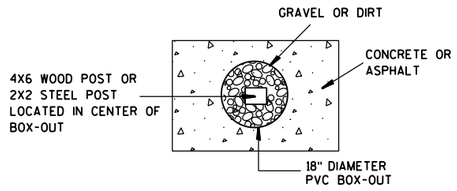
DETAIL OF WOOD 4 X 6 SIGN POST IN BOX-OUT

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



ELEVATION VIEW

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



PLAN VIEW

FOR NEW CONCRETE/ASPHALT INSTALLATIONS

SIGN POST BOX-OUTS A4-3B

WISCONSIN DEPT OF TRANSPORTATION

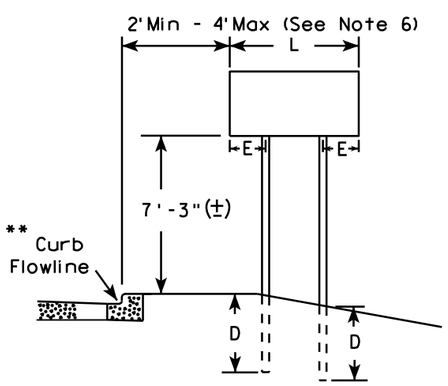
APPROVED Matthew R Rauch
for State Traffic Engineer

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

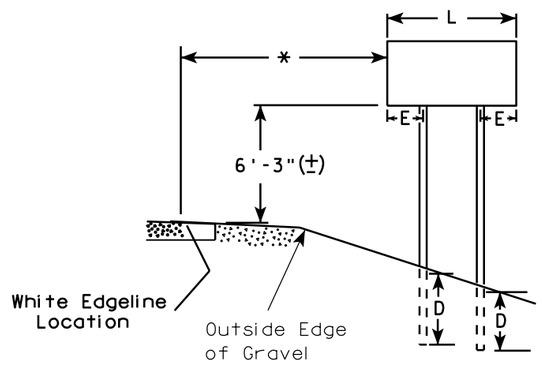
PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

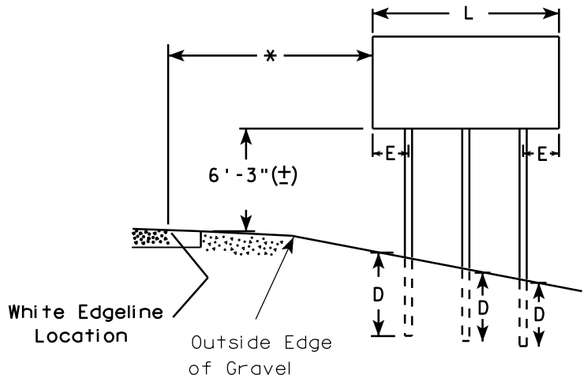
FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A43B.DGN PLOT DATE : 27-JAN-2014 09:48 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 13.659812:1.000000 WISDOT/CADDS SHEET 42

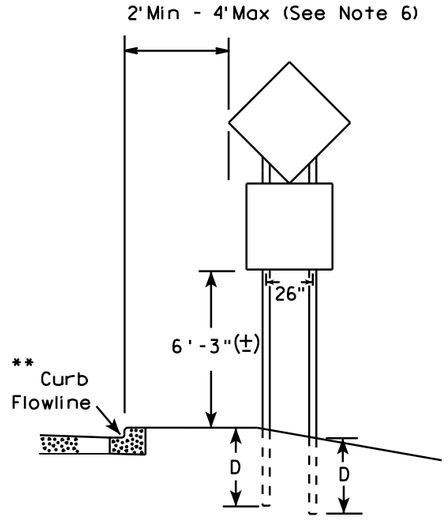
URBAN AREA



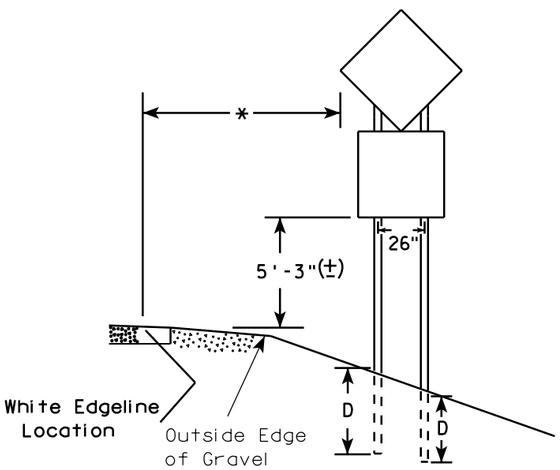
RURAL AREA (See Note 3)







48" DIAMOND WARNING SIGN



48" DIAMOND WARNING SIGN

GENERAL NOTES

1. For 3 or 4 post installations, individual post spacing shall be greater than 3'-6".
2. See tables below for required number of posts.
3. For expressways and freeways, mounting height is 7'-3" (±) or 6'-3" (±) depending upon existence of sub-sign.
4. The (±) tolerance for mounting height is 3 inches.
5. Minimum mounting height for J assemblies (A2-1S) is 7'-3" (±) or 6'-3" (±) per urban or rural detail respectively.
6. Offset distance shall be consistent with existing signs or consistent throughout length of project.
7. Folding signs shall be mounted at a height of 5'-3" (±) or as directed by the engineer.
8. The Double Arrow sign (W12-1) shall be mounted at a height of 2'-3" (±). The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), Clearance Markers (W5-52), Mile Markers (D10 series), In Road Object Markers (W5-54) & End of Road Markers (W5-56) shall be mounted at a height of 4"-3" (±).

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

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

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

SIGN SHAPE OTHER THAN DIAMOND (TWO POSTS REQUIRED)	
L	E
Greater than 48" Less than 60"	12"
60" to 120"	L/5

***

SIGN SHAPE OTHER THAN DIAMOND (THREE POSTS REQUIRED)	
L	E
Greater than 120" less than 168"	12"

SIGN SHAPE OTHER THAN DIAMOND (FOUR POSTS REQUIRED)	
L	E
168" and greater	12"

POST EMBEDMENT DEPTH

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

TYPICAL INSTALLATION OF TYPE II SIGNS ON MULTIPLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

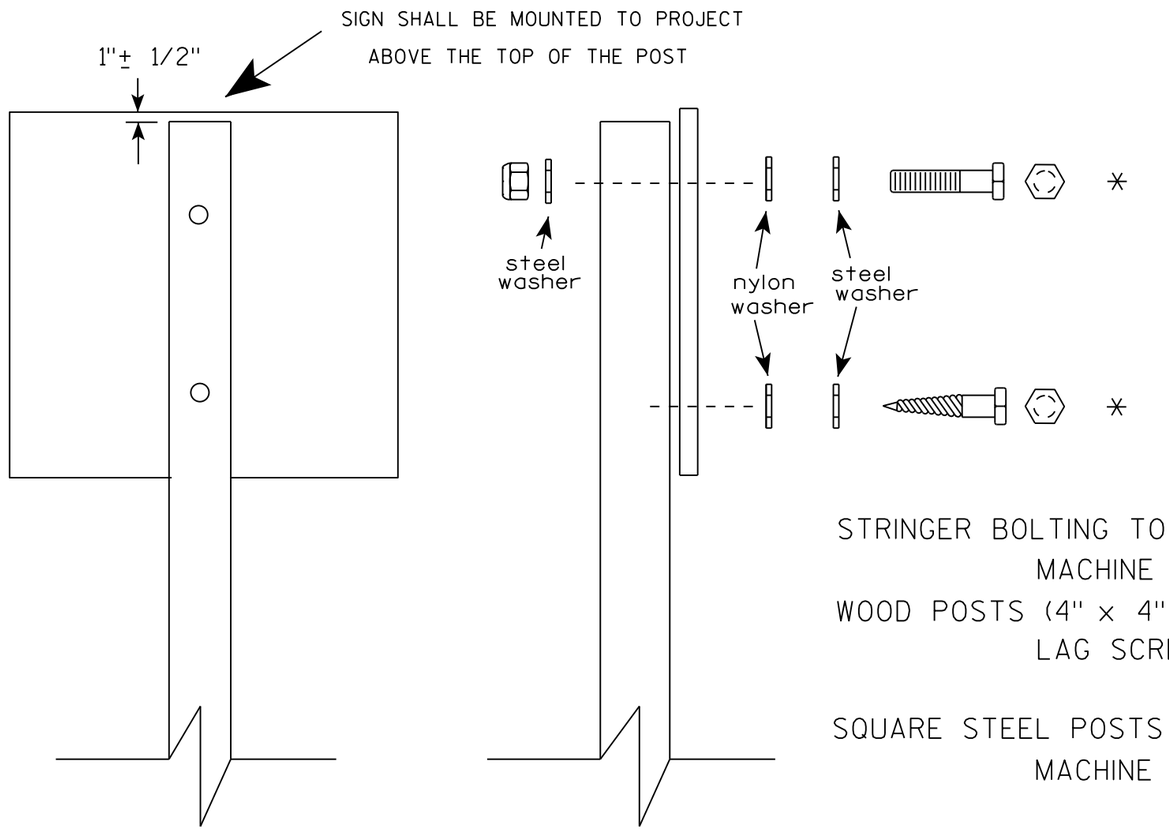
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 7/23/15 PLATE NO. A4-4 123 14

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\A44.DGN PLOT DATE : 23-JUL-2015 15:23 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 107.021305:1.000000

WISDOT/CADDS SHEET 42



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

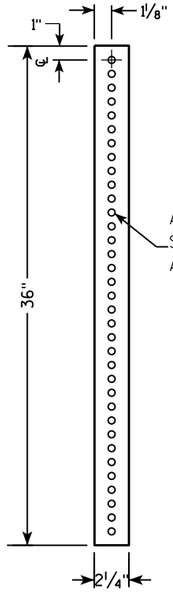
DATE 8/11/16 PLATE NO. A4-8.8

PROJECT NO: SHEET NO: E

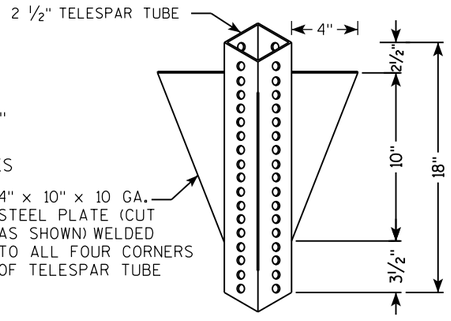
FILE NAME : C:\CADfiles\Projects\tr_stdplate\A48.DGN PLOT DATE : 11-AUG-2016 11:35 PLOT BY : $$ plotuser $$

TELESCOPIC TUBING ANCHORS
TWO PIECE SYSTEM

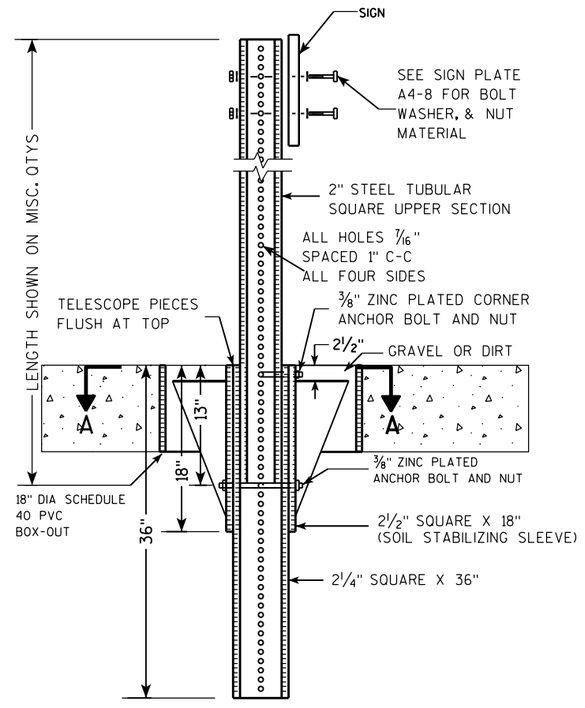
2 1/4 " SQUARE
12 GAUGE
PERFORATED
GALVANIZED FINISH



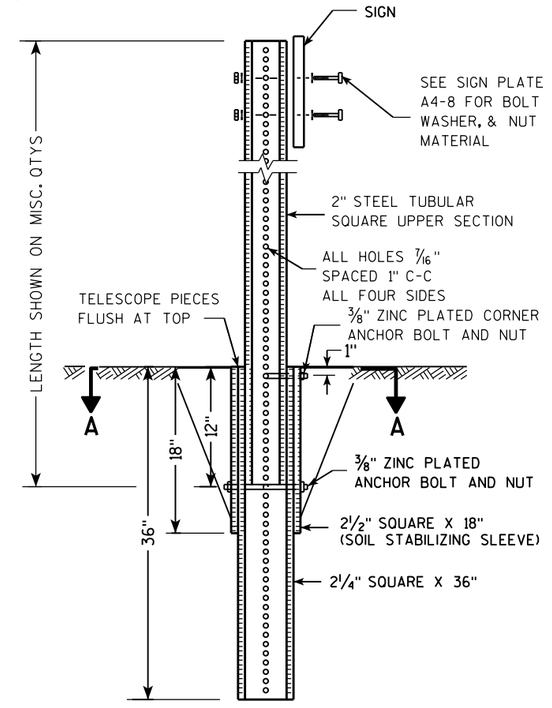
2 1/2 " SQUARE
12 GAUGE
OMNI-DIRECTIONAL
PERFORATED
SOIL STABILIZING SLEEVE
GALVANIZED FINISH

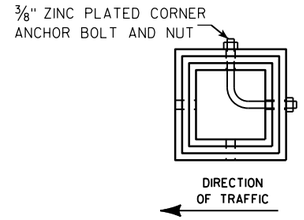


DETAIL OF TUBULAR STEEL SIGN POST
(IN POURED CONCRETE OR ASPHALT)



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





SECTION A-A

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

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

TUBULAR STEEL
SIGN POST
A4-9

WISCONSIN DEPT OF TRANSPORTATION

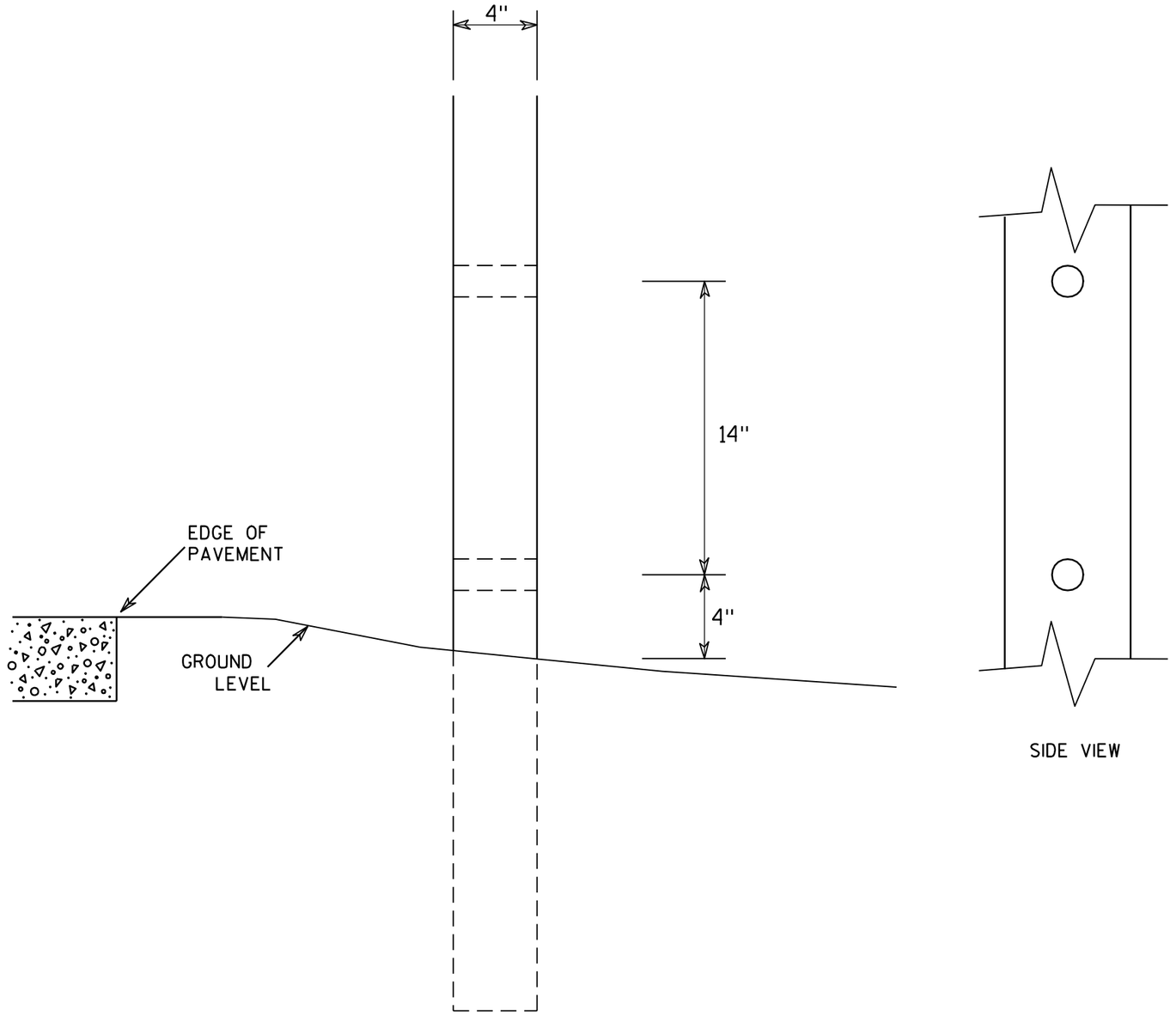
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/05/15 PLATE 125 A4-9.9

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

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

WISDOT/CADDS SHEET 42



SIDE VIEW

GENERAL NOTES

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

7

7

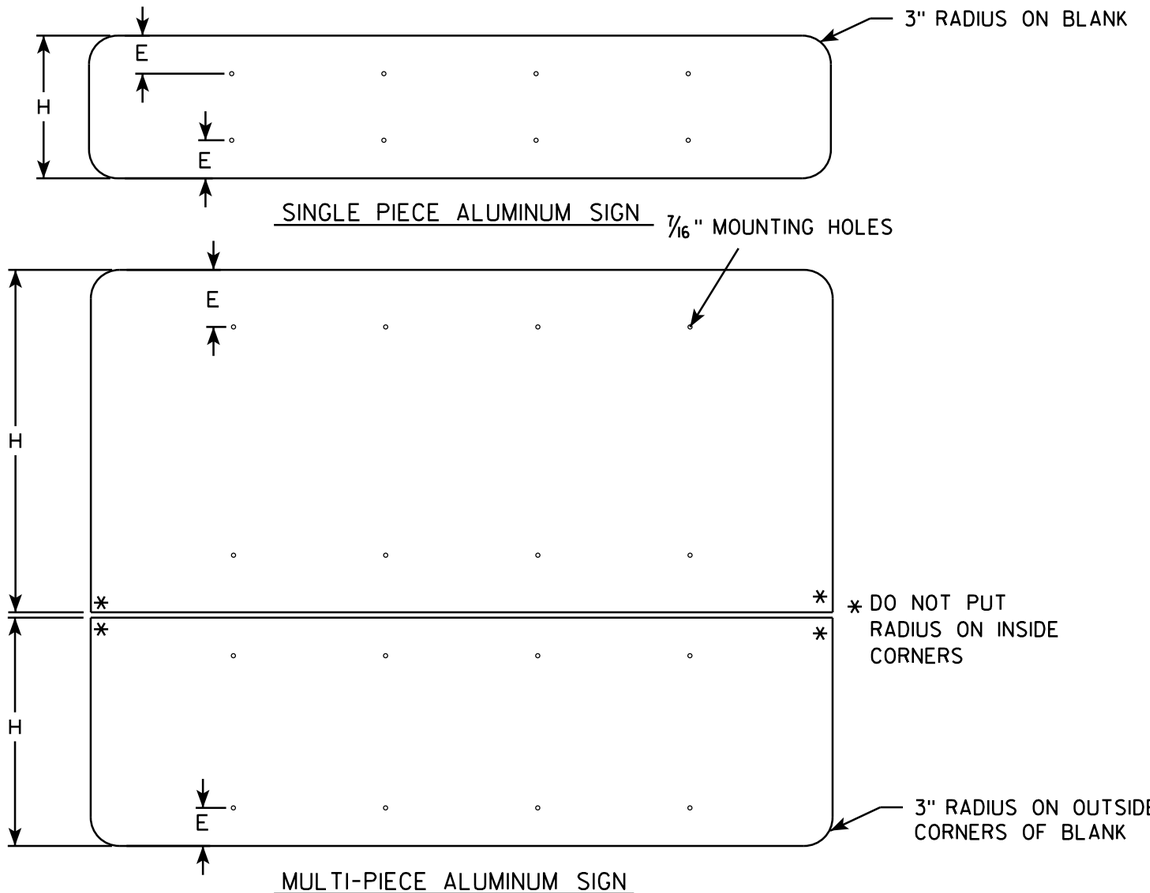
4 X 6 WOOD POST MODIFICATIONS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Chester J Spang
for State Traffic Engineer

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

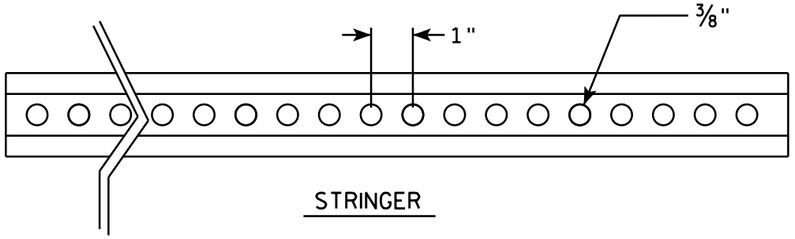
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 126	E



GENERAL NOTES

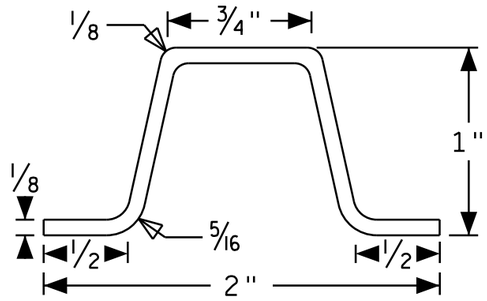
- ALL SIGNS OVER 60" IN WIDTH SHALL HAVE A 3" RADIUS ON THE OUTSIDE CORNERS OF THE ALUMINUM BLANK.
- MOUNTING HOLES SHALL BE 7/16" DIAMETER.
- SEE CHART FOR HOLE SPACING REQUIREMENTS
- FOR SIGN PANELS WITH DIMENSION (H) 36" AND OVER, DIMENSION E SHALL BE 6"
- FOR SIGN PANELS WITH DIMENSION (H) UNDER 36", DIMENSION E SHALL BE 4"
- SIGN STRINGER MATERIAL SHALL CONSIST OF STEEL CHANNEL POST SECTIONS, WEIGHING 1.12 LBS/FT IN ACCORDANCE WITH SECTION 633.2.1 OF THE STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION.
- SEE SIGN PLATE A4-8 FOR SIGN STRINGER BOLTING REQUIREMENTS.

SIGN WIDTH	STRINGER WIDTH	POSTS	HOLE SPACING	MOUNTING HOLES
78"	72"	2	16"	15" 31" 47" 63"
84"	72"	2	17"	16½" 33½" 50½" 67½"
90"	72"	2	18"	18" 36" 54" 72"
96"	90"	2	19"	19½" 38½" 57½" 76½"
102"	90"	2	20"	21" 41" 61" 81"
108"	90"	2	21"	22½" 43½" 64½" 85½"
114"	108"	3	15"	12" 27" 42" 57" 72" 87" 102"
120"	108"	3	16"	12" 28" 44" 60" 76" 92" 108"
126"	108"	3	17"	12" 29" 46" 63" 80" 97" 114"
132"	126"	3	18"	12" 30" 48" 66" 84" 102" 120"
138"	126"	3	19"	12" 31" 50" 69" 88" 107" 126"
144"	126"	3	20"	12" 32" 52" 72" 92" 112" 132"

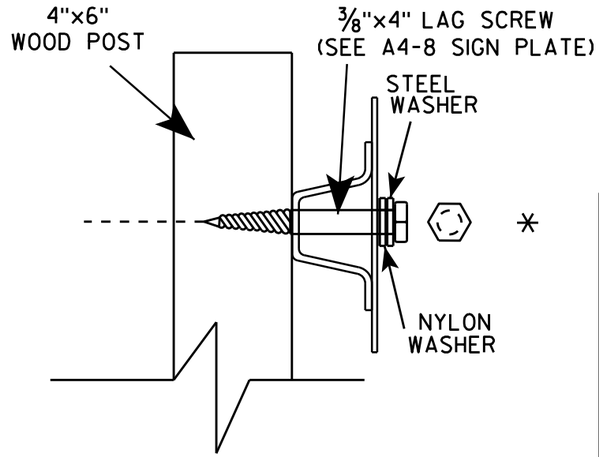


STRINGER

CROSS SECTION VIEW OF CHANNEL



POST MOUNTING



SIGN STRINGER MOUNTING REQUIREMENTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch

for State Traffic Engineer

DATE 4/26/16 PLATE NO A4-18.1

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\A418.dgn PLOT DATE : 27-APR-2016 13:56 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 41.805205:1.000000 WISDOT/CADDS SHEET 42

NOTES

1. Sign is Type II- Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Message Series - E
4. Material shall be .040 aluminmum

G20-60

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																											
3																											
4	108	24				12	6	14 7/8	78 1/4																		18.0
5																											

STANDARD SIGN
G20-60

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/13/15 PLATE NO G20-60.1

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

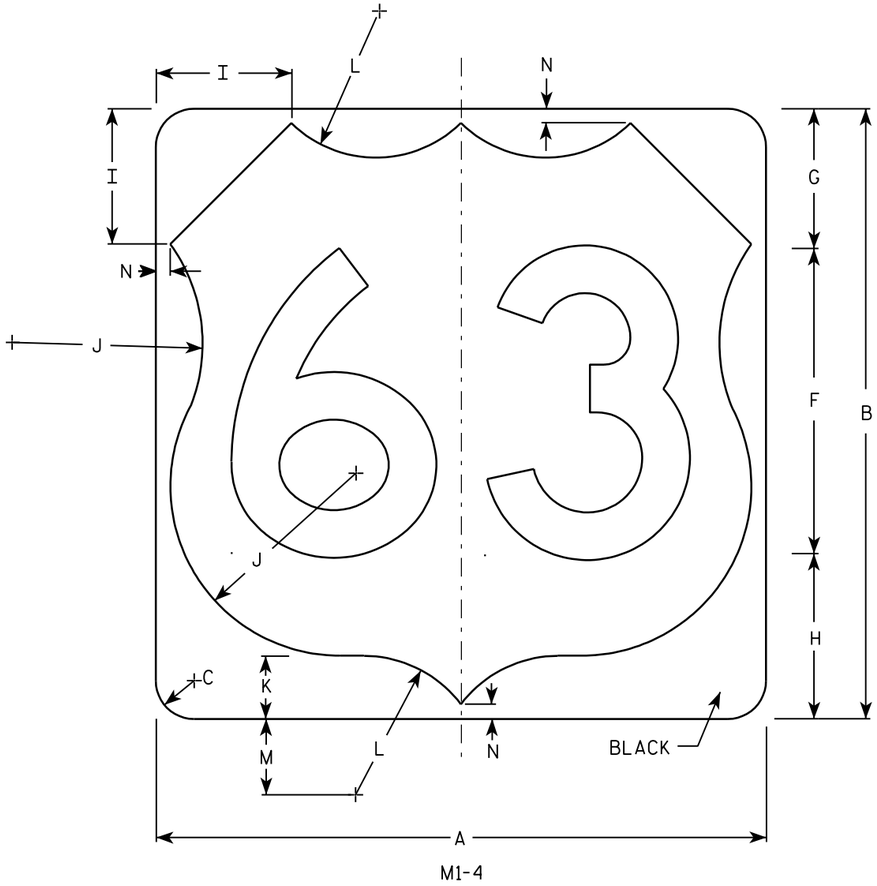
FILE NAME : C:\CAEfiles\Projects\tr_stdplate\G2060.DGN PLOT DATE : 13-MAY-2015 08:46 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 20.431338:1.000000
WISDOT/CADDS SHEET 42

7

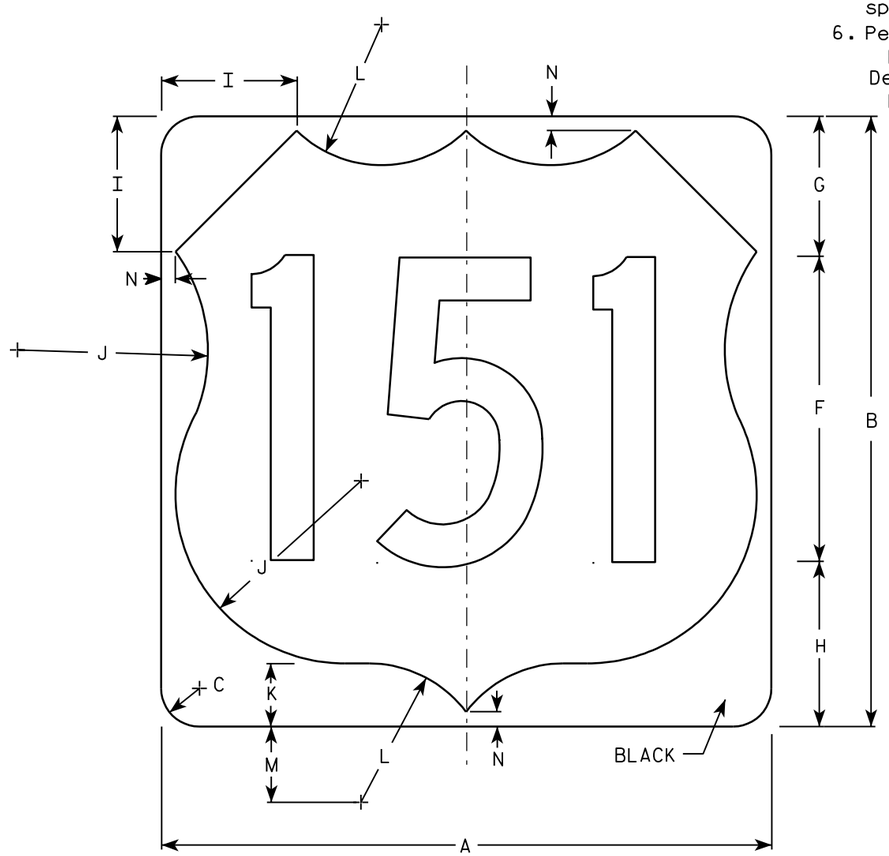
7

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 numerals and adjust spacing as per Plate A10-1.
6. Permanent Signs
   Background - Type H Reflective
   Detour or other temporary signs
   Background - Reflective



M1-4



M1-4

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	Areq. sq. ft.	Area m2
1																												
2	24	24	1 1/2			12	5 1/2	6 1/2	5	7 1/2	2 1/2	5 1/2	3	1/2													4.0	.36
3	36	36	2 1/4			18	8 1/4	9 1/4	7 1/4	11 1/4	3 3/4	8 1/4	4 1/2	3/4													9.0	.81
4	36	36	2 1/4			18	8 1/4	9 1/4	7 1/4	11 1/4	3 3/4	8 1/4	4 1/2	3/4													9.0	.81
5	36	36	2 1/4			18	8 1/4	9 1/4	7 1/4	11 1/4	3 3/4	8 1/4	4 1/2	3/4													9.0	.81

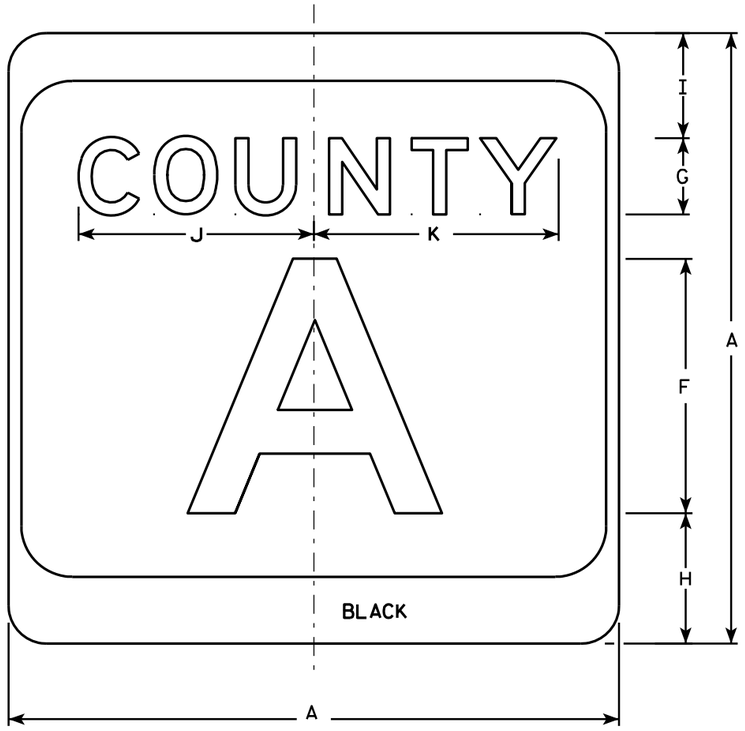
USH MARKER
M1-4 FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

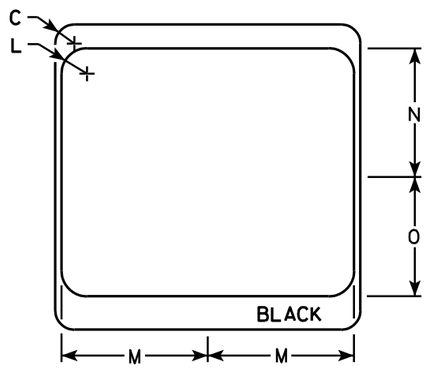
APPROVED Matthew R Rauch
for State Traffic Engineer

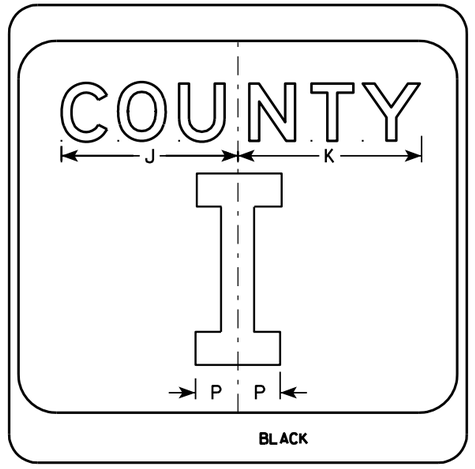
DATE 08/25/05 PLATE NO. M1-4.9

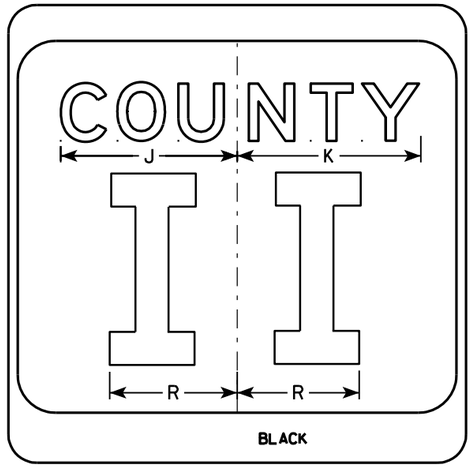
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 129 | E



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

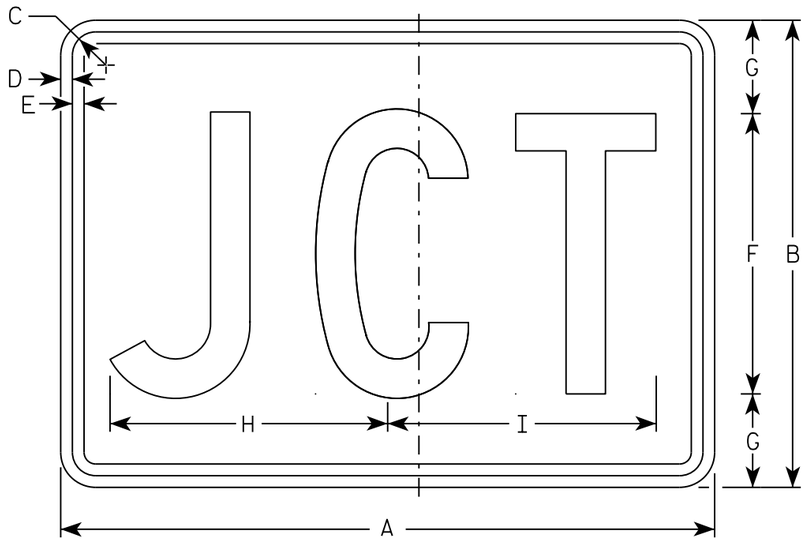
CTH MARKER
M1-5A FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

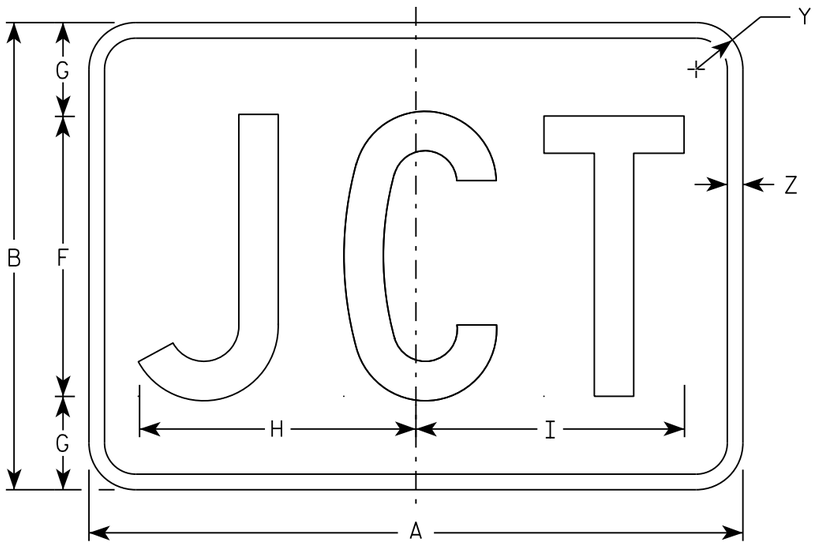
APPROVED Matthew R Rauch
for State Traffic Engineer

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

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 130	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

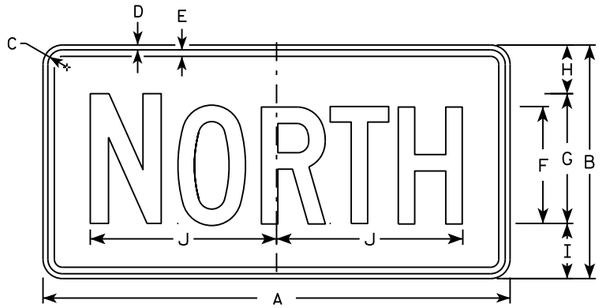
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

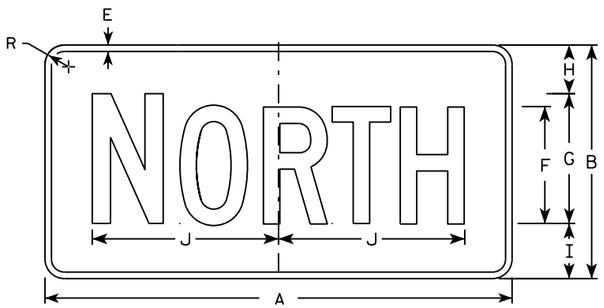
DATE 10/15/15 PLATE 131 12-1.12

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\M21.DGN PLOT DATE : 01-DEC-2015 17:54 PLOT BY : $$ plotuser $$ PLOT NAME : PLOT SCALE : 4.864603:1.000000



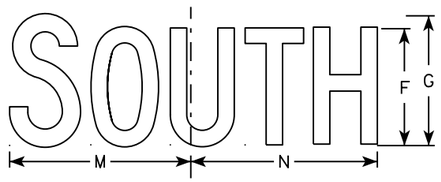
M3-1
MM3-1
MP3-1



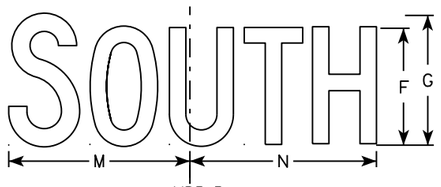
MB3-1
MK3-1
MN3-1

M3-2
MM3-2
MP3-2

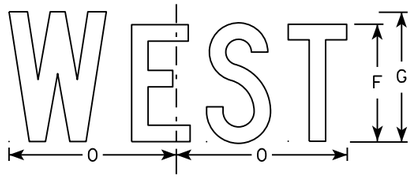
MB3-2
MK3-2
MN3-2



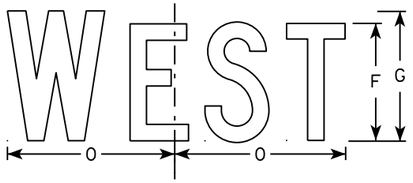
M3-3
MM3-3
MP3-3



MB3-3
MK3-3
MN3-3



M3-4
MM3-4
MP3-4



MB3-4
MK3-4
MN3-4

NOTES

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

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

STANDARD SIGNS
M3-1 thur M3-4
SERIES

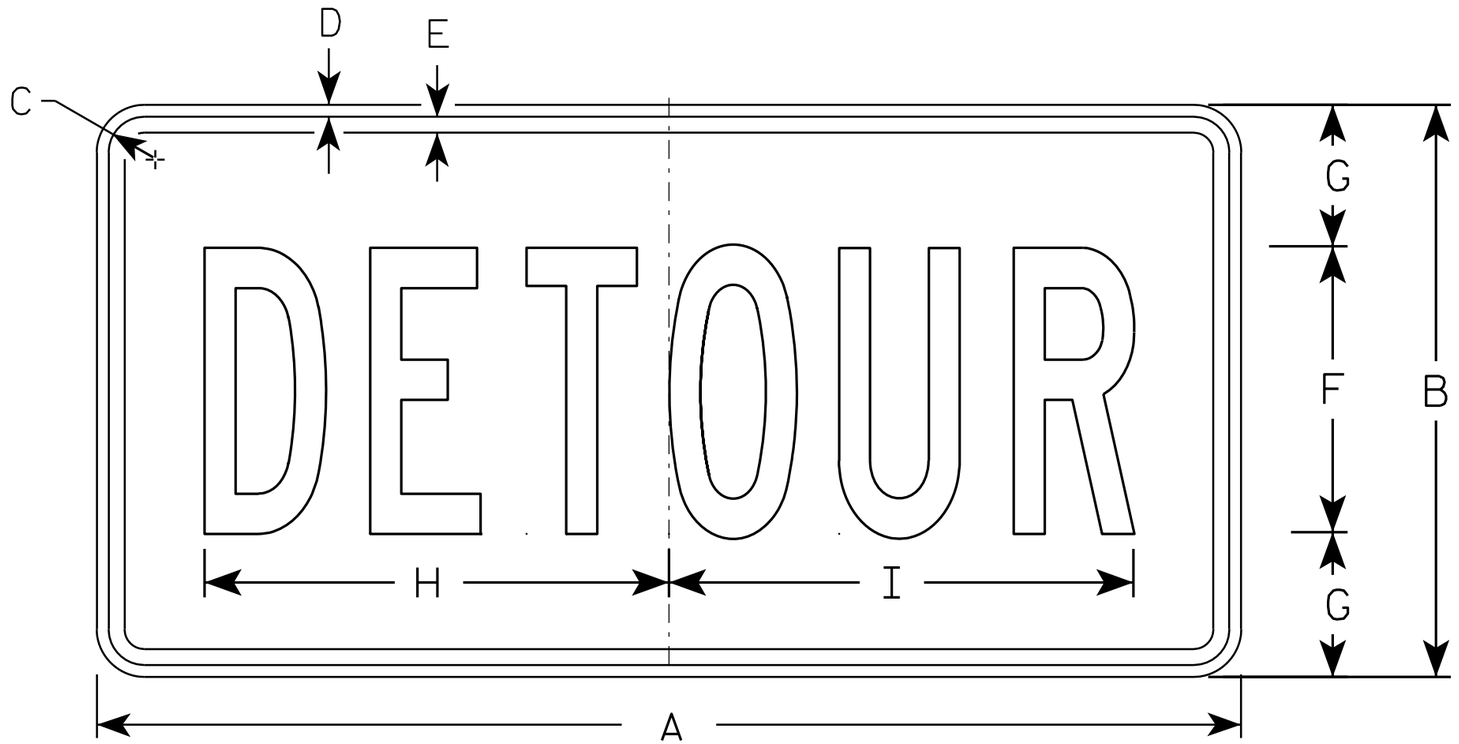
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew P Rauch for State Traffic Engineer

DATE 10/15/15 PLATE NO M3-1.14

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

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



M4-8

NOTES

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

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

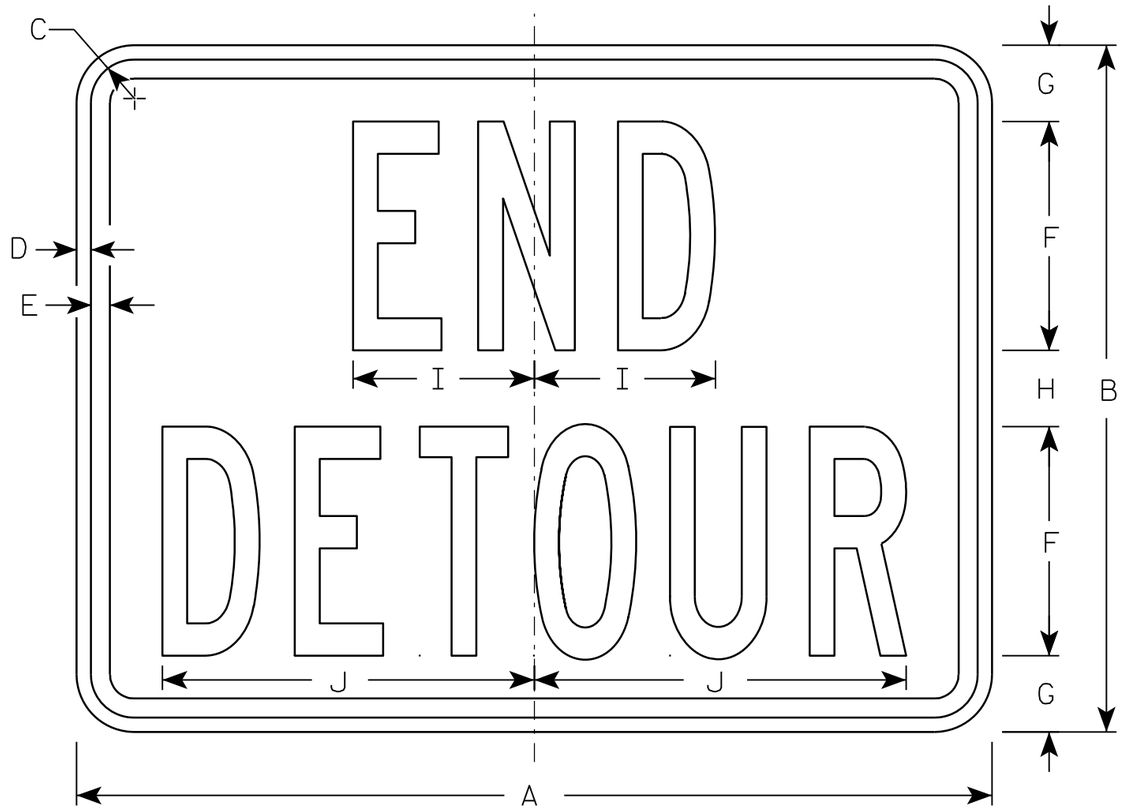
STANDARD SIGN
M4-8

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

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

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 133	E



M4-8A

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	18	1 1/8	3/8	1/2	6	2	2	4 3/4	9 3/4																	3.0
3	30	24	1 1/8	3/8	1/2	8	2 1/2	3	6 3/4	13																	5.0
4																											
5																											

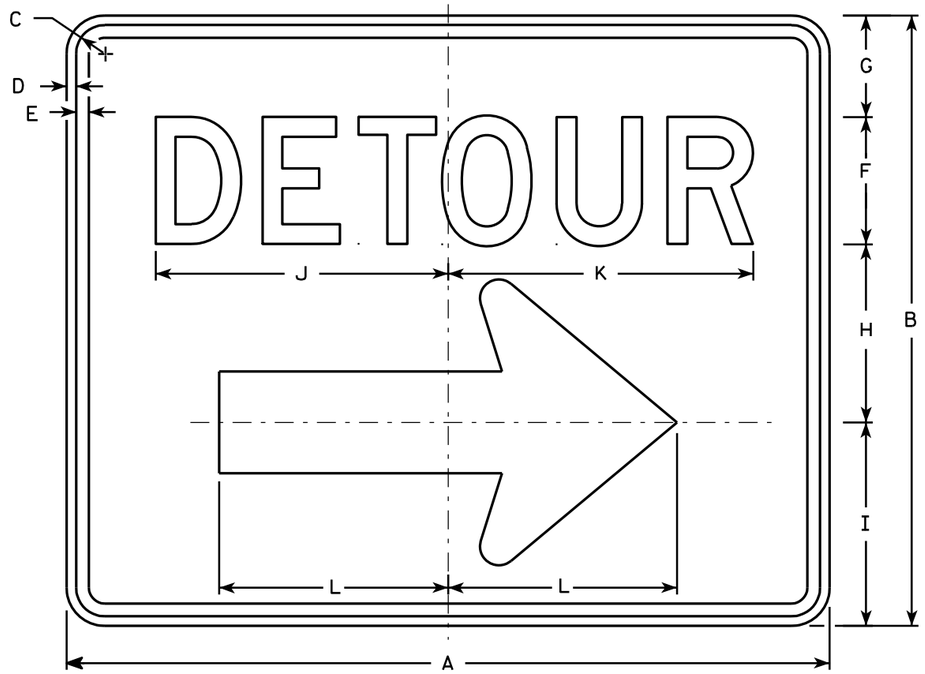
STANDARD SIGN
M4-8A

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/9/11 PLATE NO. M4-8A.2

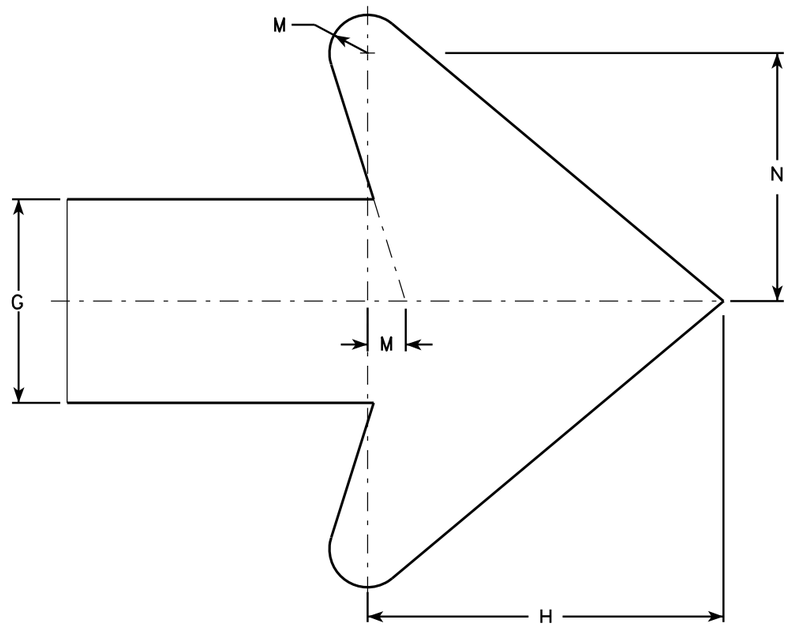
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 134	E



M4-9R

NOTES

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



Arrow Detail

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

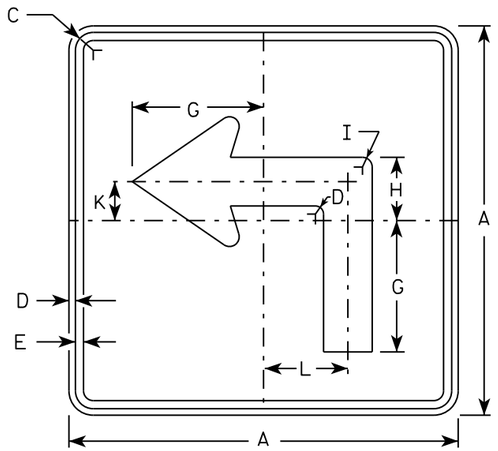
STANDARD SIGN
M4-9 R & L

WISCONSIN DEPT OF TRANSPORTATION

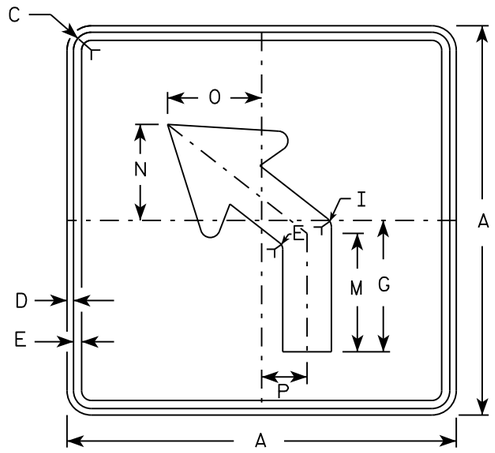
APPROVED Matthew R Rauch
for State Traffic Engineer

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

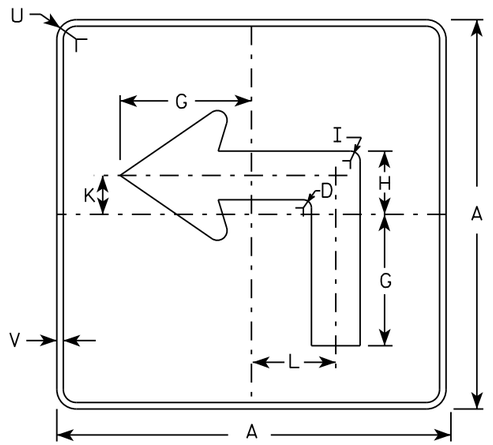
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 135 E



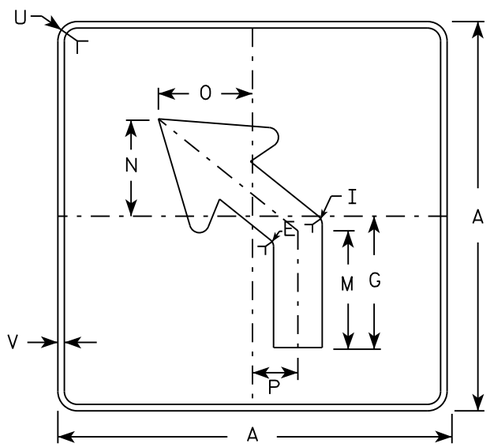
M5-1L
MM5-1L
MO5-1L
MP5-1L



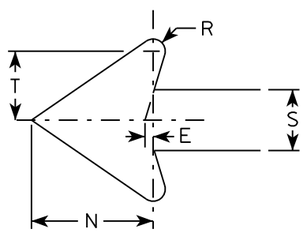
M5-2L
MM5-2L
MO5-2L
MP5-2L



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

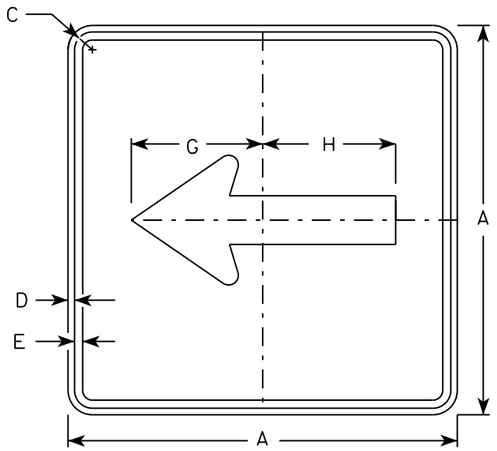
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

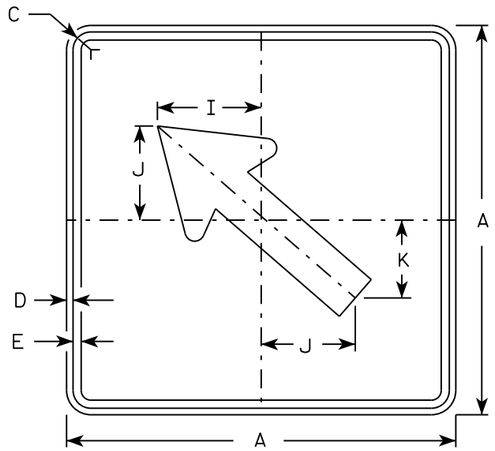
DATE 10/15/15 PLATE M5-1.13

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

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



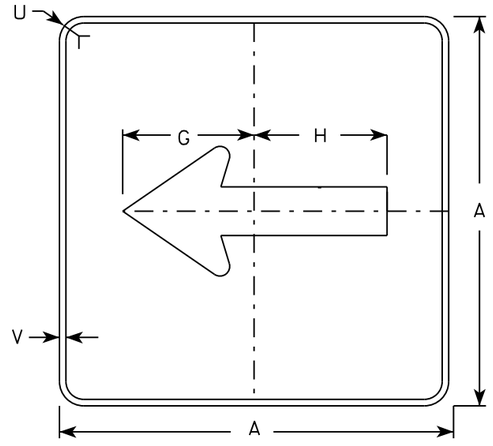
M6-1
MM6-1
MO6-1
MP6-1



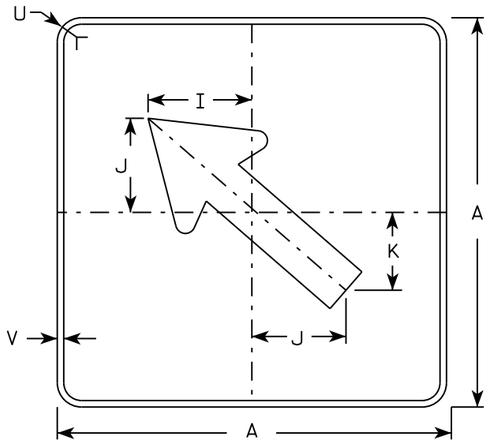
M6-2
MM6-2
MO6-2
MP6-2

NOTES

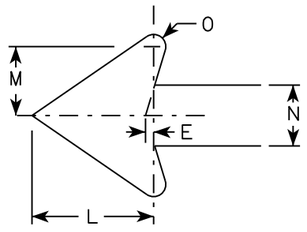
1. Signs are Type II - Type H except as Shown
2. Color:
   Background - See note 4
   Message - See note 4
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. M6-1 and M6-2 Background - 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

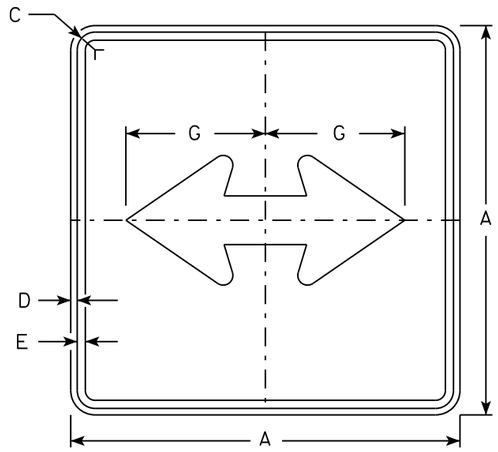
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

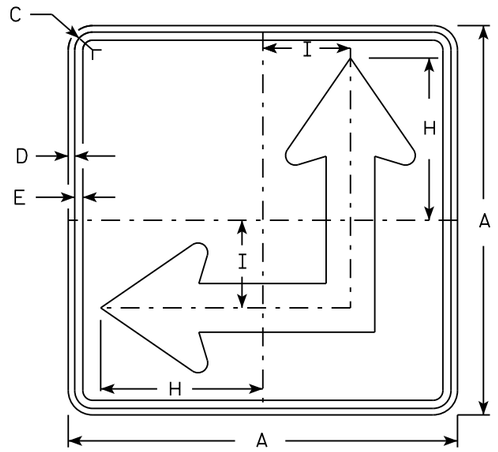
DATE 10/15/15 PLATE 137 M6-1.15

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\M61.DGN PLOT DATE : 01-DEC-2015 17:57 PLOT BY : $$ plotuser $$ PLOT NAME : PLOT SCALE : 11.675051:1.000000



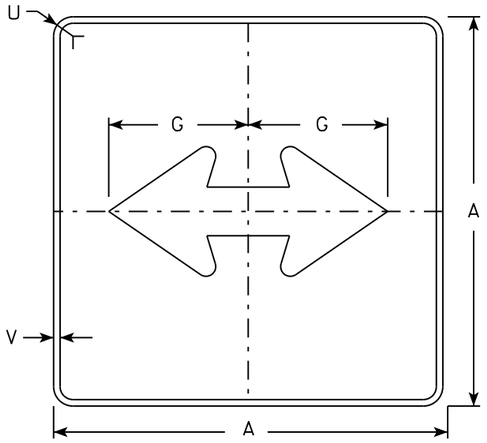
M6-4
MM6-4
MO6-4
MP6-4



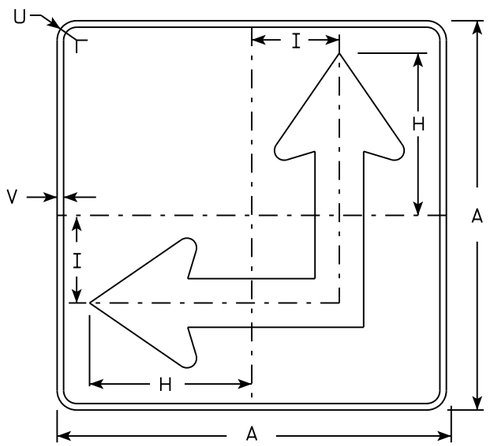
M6-6
MM6-6
MO6-6
MP6-6

NOTES

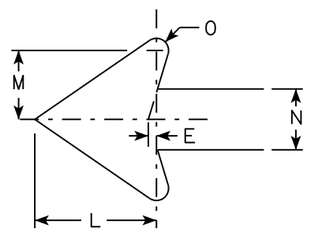
1. Signs are Type II - Type H except as Shown
2. Color:
   Background - See Note 4
   Message - See Note 4
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. M6-4 and M6-6 Background - White
   Message - Black
   MB6-4 and MB6-6 Background - Blue
   Message - White
   MK6-4 and MK6-6 Background - Green
   Message - White
   MM6-4 and MM6-6 Background - White
   Message - Green
   MN6-4 and MN6-6 Background - Brown
   Message - White
   MO6-4 and MO6-6 Background - Orange - Type F Reflective
   Message - Black
   MP6-4 and MP6-6 Background - White
   Message - Blue
   MR6-4 and MR6-6 Background - Brown
   Message - Yellow
5. M6-6R same as M6-6L except arrow points ahead and right.



MB6-4
MK6-4
MN6-4
MR6-4



MB6-6
MK6-6
MN6-6
MR6-6



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	8 3/4	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	12 1/2	6 3/4			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	12 1/2	6 3/4			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	12 1/2	6 3/4			7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2					6.25

STANDARD SIGN
M6-4 & M6-6
SERIES

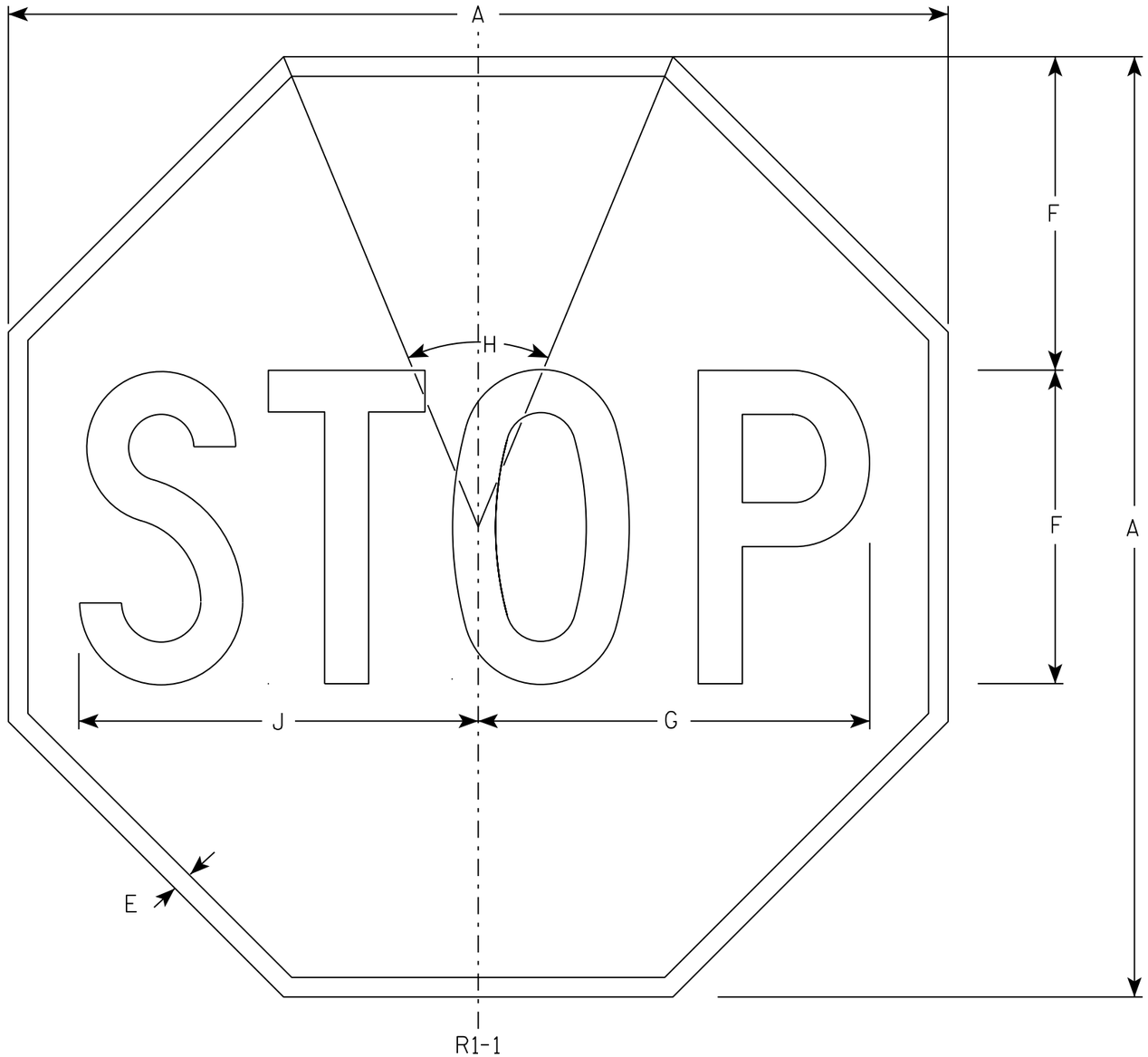
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 10/15/15 PLATE 138 M6-4.10

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

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\M64.DGN PLOT DATE : 01-DEC-2015 17:58 PLOT BY : $$ platuser $$ PLOT NAME : PLOT SCALE : 11.675051:1.000000



R1-1

NOTES

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

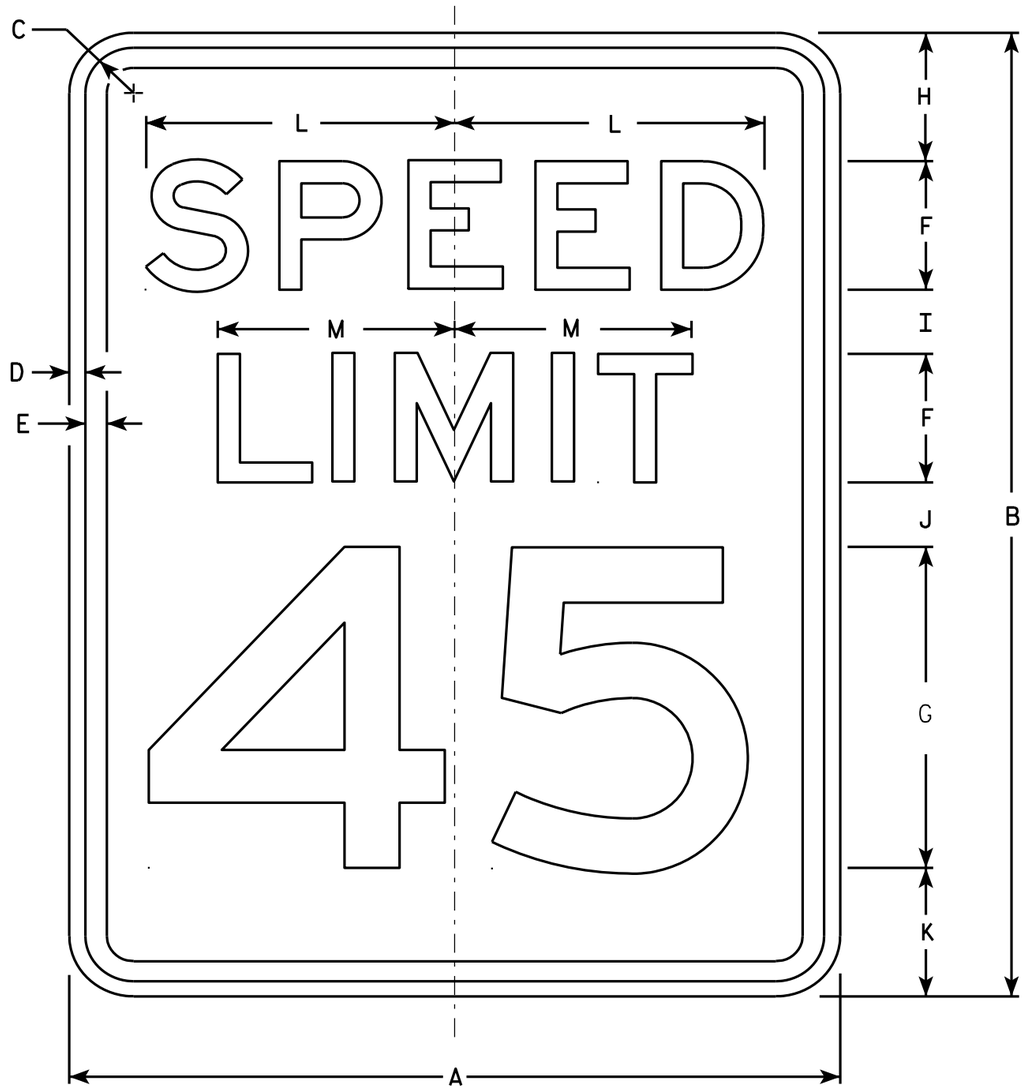
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/12/15 PLATE R1-1.13

PROJECT NO:	HWY:	COUNTY:		SHEET NO: E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\R11.DGN PLOT DATE : 01-DEC-2015 18:07 PLOT BY : $$ plotuser $$ PLOT NAME : PLOT SCALE : 4.378143:1.000000



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

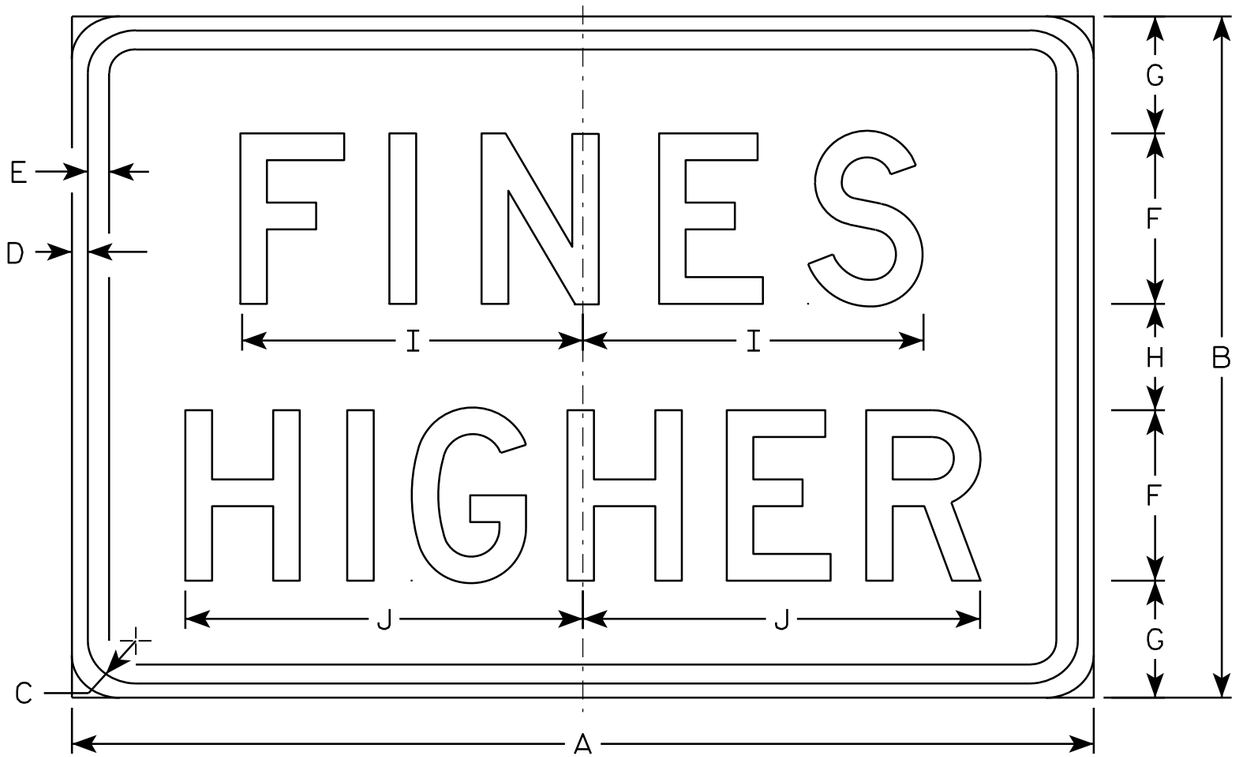
STANDARD SIGN
R2-1

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: 140 | E



R2-6P

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 - 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																											
2S	24	18	1 1/8	3/8	3/8	4	3 1/2	3	7 5/8	9 1/4																	3.0
2M	24	18	1 1/8	3/8	3/8	4	3 1/2	3	7 5/8	9 1/4																	3.0
3	36	24	1 1/8	3/8	1/2	6	4 1/8	3 3/4	12	14																	6.0
4	36	24	1 1/8	3/8	1/2	6	4 1/8	3 3/4	12	14																	6.0
5	48	36	1 3/8	1/2	5/8	8	7	6	15 1/8	19																	12.0

STANDARD SIGN
R2-6P

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

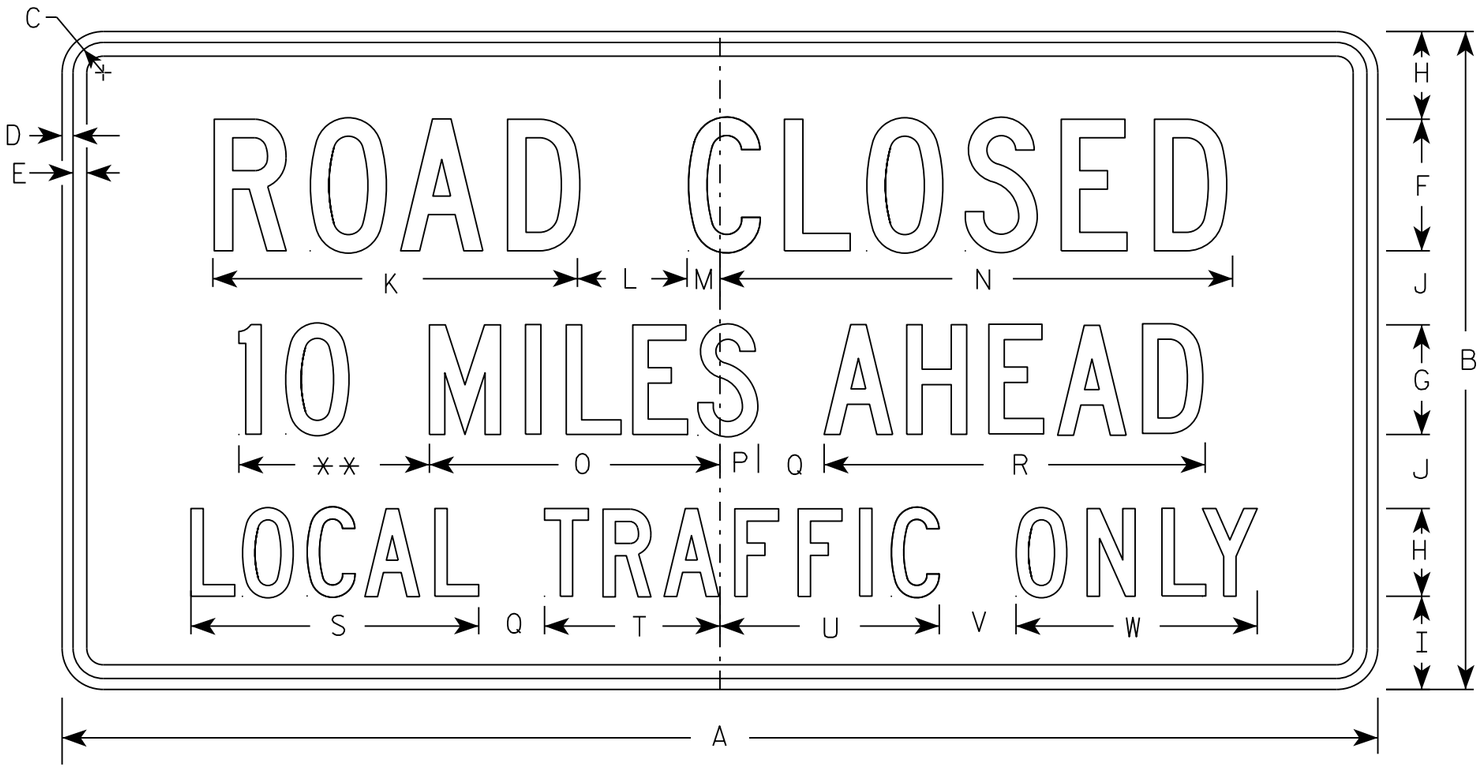
DATE 12/20/10 PLATE NO. R2-6P.2

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 141 | E

7

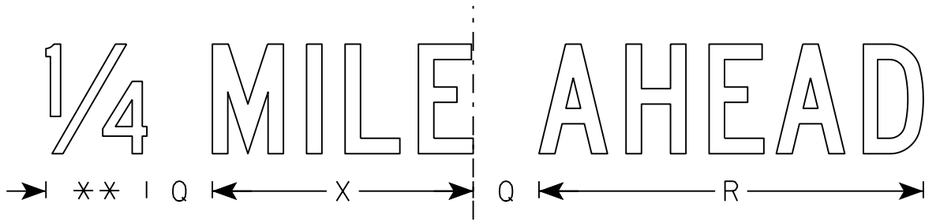
NOTES

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																											

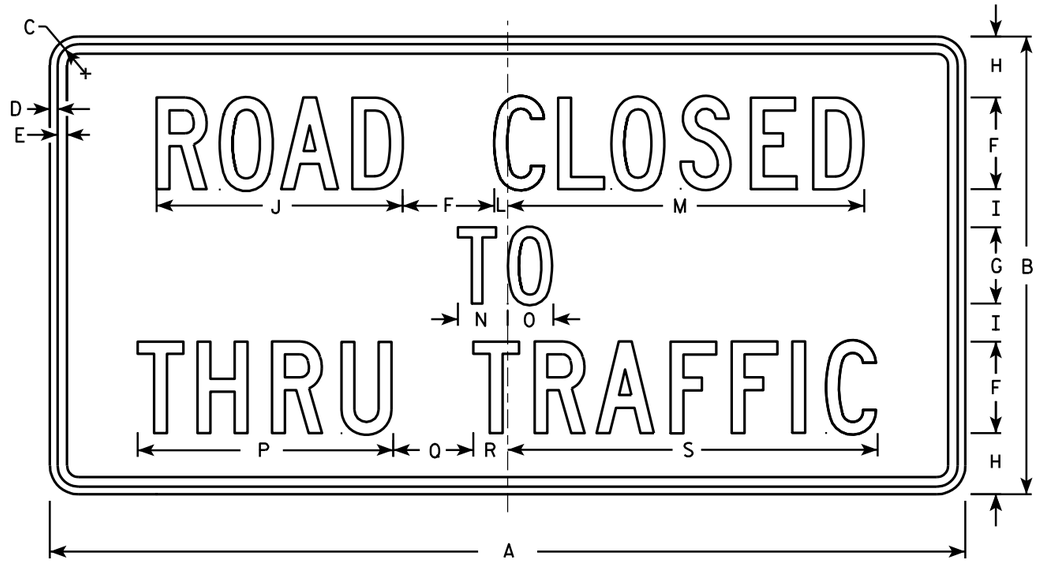
STANDARD SIGN
R11-3

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: 142	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																											

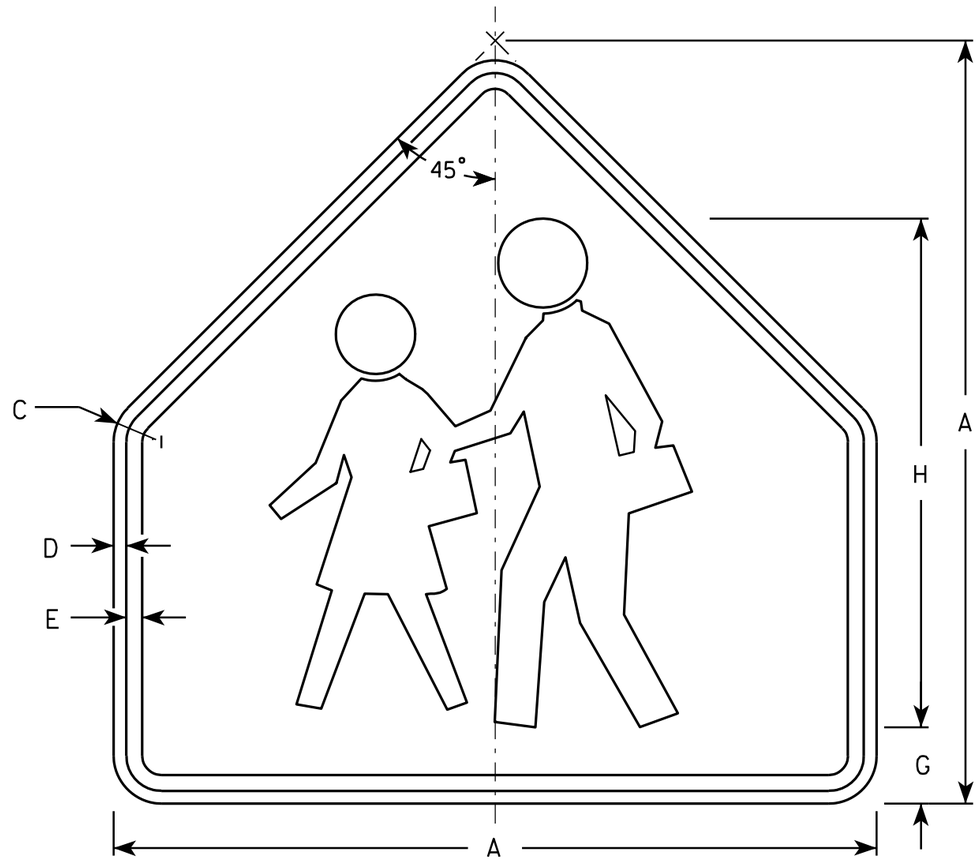
STANDARD SIGN
R11 - 4

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: 143 | E



S1-1

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-Green
   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	30		1 3/8	1/2	5/8		3	20																			4.69
2	36		1 5/8	5/8	3/4		3 1/2	24																			6.75
3	36		1 5/8	5/8	3/4		3 1/2	24																			6.75
4	48		2 1/4	3/4	1		4 3/4	32																			12
5																											

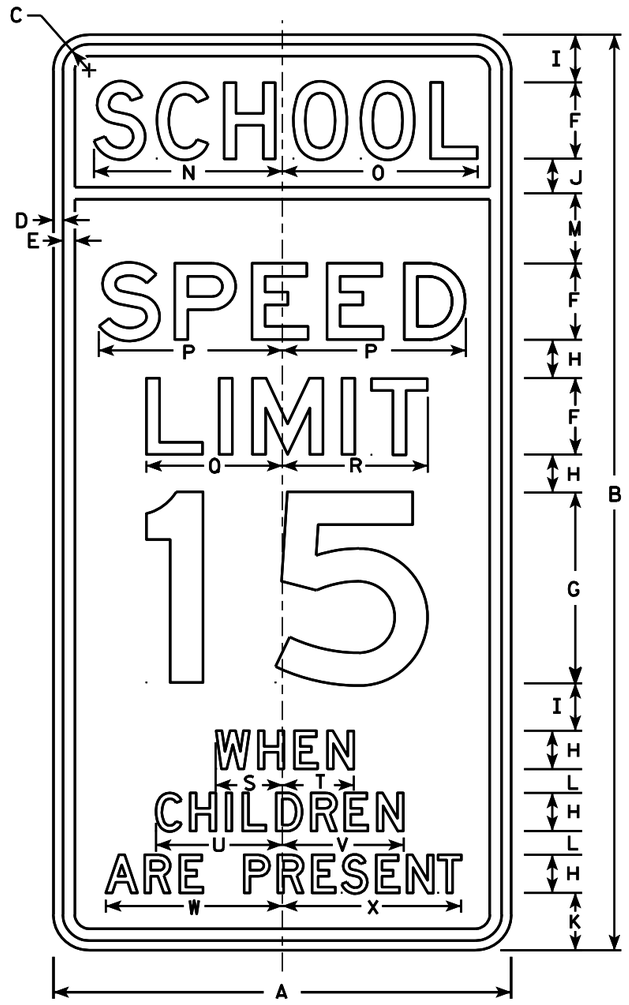
STANDARD SIGN
S1-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 6/30/05 PLATE NO. S1-1.8

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 144	E



S4-51

NOTES

1. Sign is Type II - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition. (See note 5).
2. Color:
   Background - See note 5
   Message - Black
3. Message Series - See note 6
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. Top panel (SCHOOL) background - Yellow Green -Type F Reflective.
   Lower panel background - White -Type H Reflective.
6. From top to bottom:
   Lines 1, 5, 6 & 7 are series D
   Lines 2, 3 & 4 are series E
7. Line 4 substitute appropriate numerals and adjust spacing to achieve proper balance.

Metric equivalent for this sign is:

SIZE	
1	
2	600 mm X 1200 mm
3	900 mm X 1800 mm
4	
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.	Area m2
1																												
2	24	48	1 3/8	1/2	5/8	4	10	2	2 1/2	1 3/4	3	1 1/4	3 3/4	9 7/8	10 1/4	9 5/8	7 1/8	7 5/8	3 1/2	3 3/8	6 5/8	6 3/8	9 1/4	9 3/8			8.00	0.72
3	36	72	2 1/4	3/4	1	6	15	3	3 3/4	2 3/4	4 1/2	1 7/8	5 1/2	15	15 1/4	14 1/2	11 1/4	11 1/2	5 1/2	5 3/4	10	9 3/4	14	14 1/8			18.00	1.62
4																												
5																												

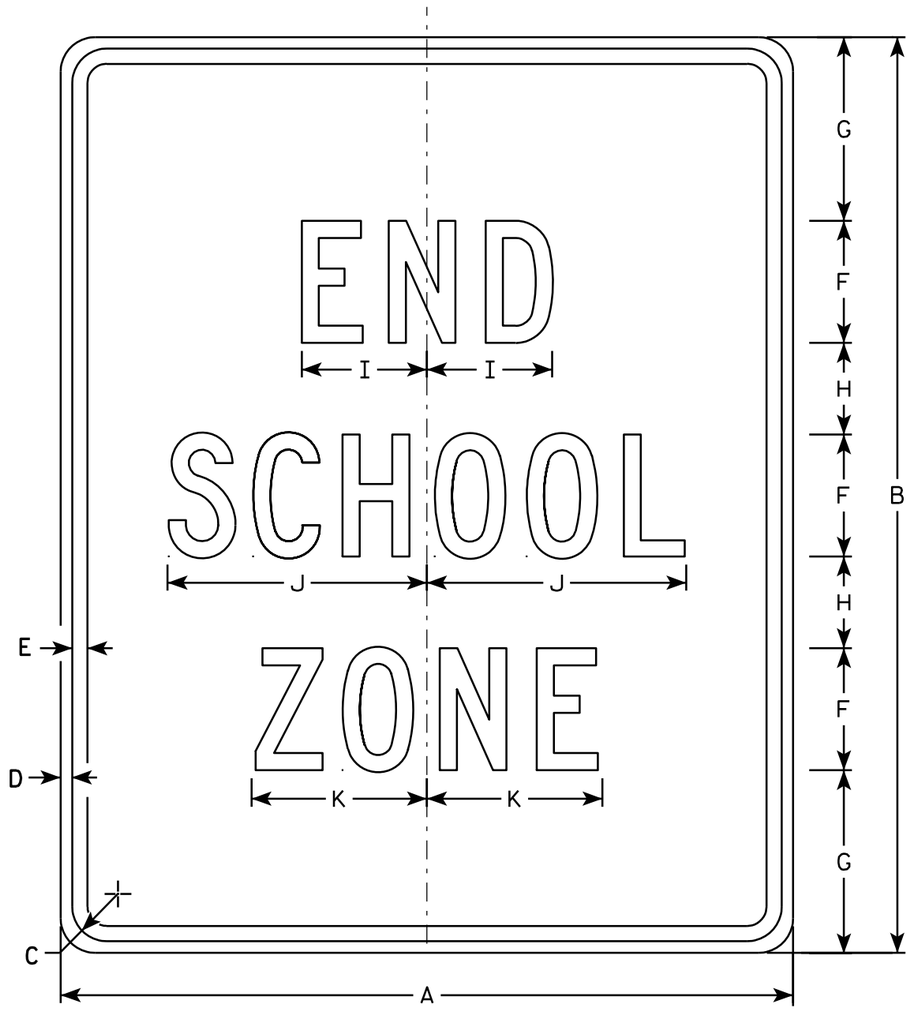
STANDARD SIGN
S4-51

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 4/26/10 PLATE NO. S4-51.9

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 145 | E



S5-2

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																											
2	24	30	1 1/8	3/8	1/2	4	6	3	4 1/8	8 1/2	5 3/4																5.0
3	36	42	1 5/8	5/8	3/4	6	7	5	6 1/8	12 5/8	8 5/8																10.5
4																											
5																											

STANDARD SIGN
S5-2

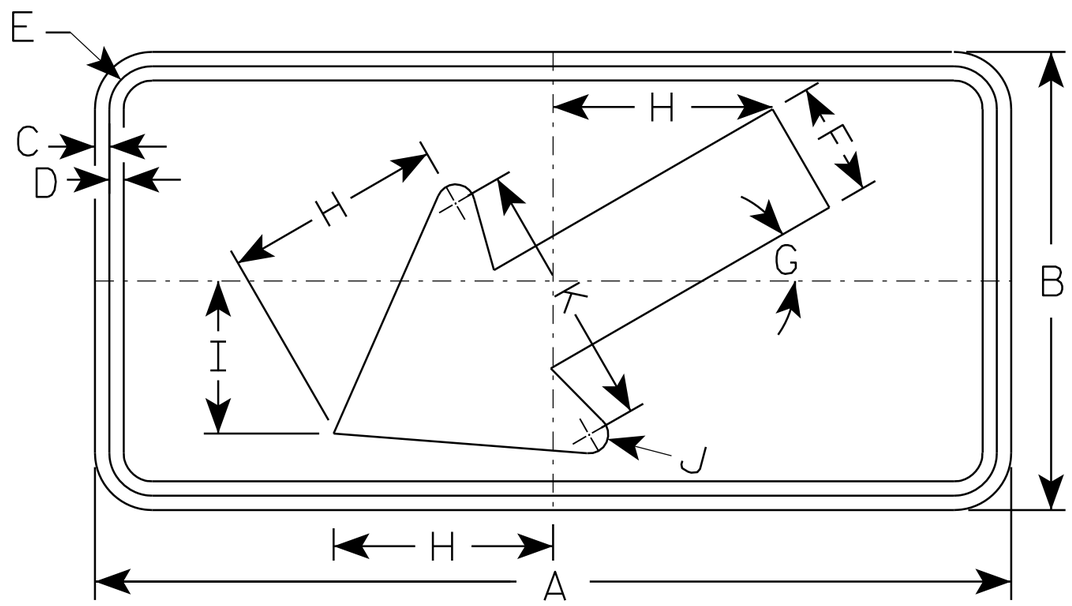
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/8/11 PLATE NO. S5-2.2

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 146 | E

7



S16-7L

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-Green
   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.
4. S16-7R are the same as S16-7L except the arrow is reversed along the vertical centerline.

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	12	3/8	3/8	1 1/8	3	30°	5 3/4	4	1/2	7																2.0
2S	30	18	3/8	1/2	1 1/8	4 1/2	30°	8 1/2	6	5/8	10 1/4																3.75
2M	30	18	3/8	1/2	1 1/8	4 1/2	30°	8 1/2	6	5/8	10 1/4																3.75
3	30	18	3/8	1/2	1 1/8	4 1/2	30°	8 1/2	6	5/8	10 1/4																3.75
4	48	24	1/2	5/8	1 3/8	6	30°	11 1/2	8	1	14																8.0
5																											

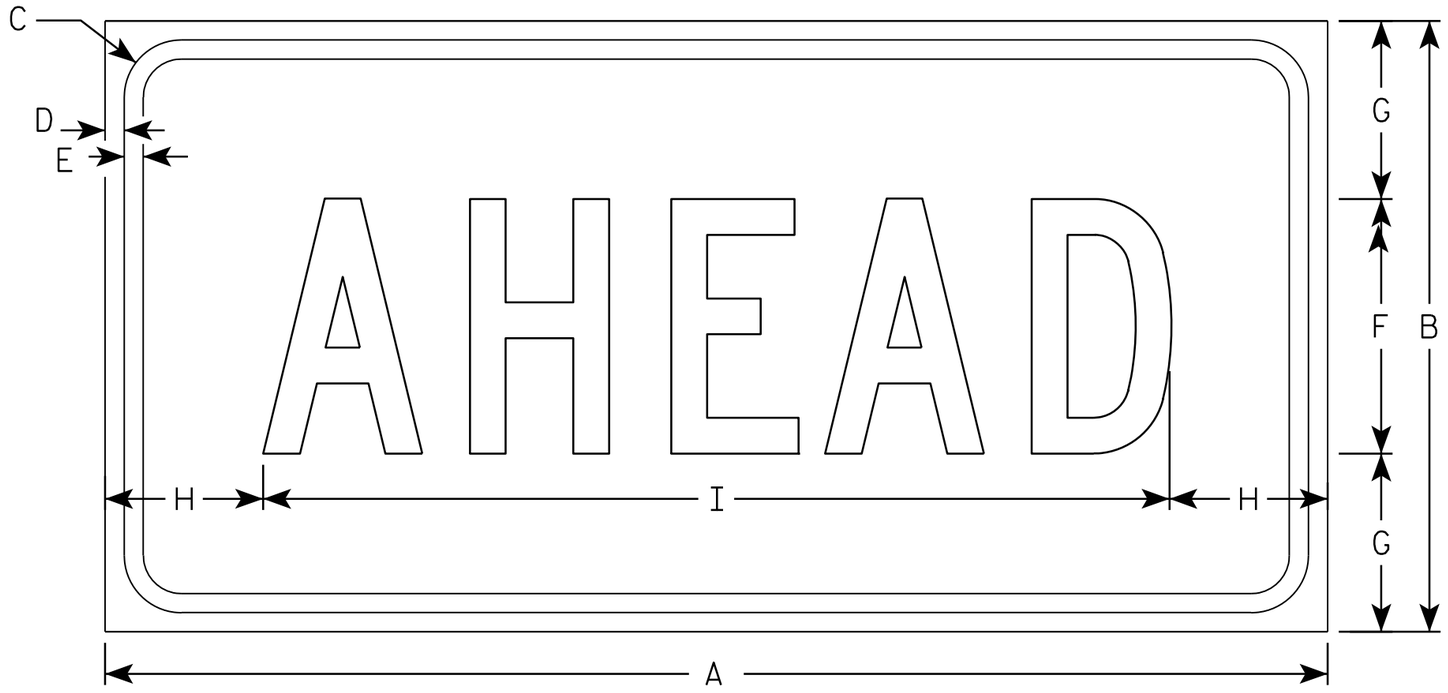
STANDARD SIGN
S16-7

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 7/22/13 PLATE NO. S16-7.1

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 147 | E



S16-9P

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-Green
   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	24	12	1 1/8	3/8	3/8	5	3 1/2	3 1/8	17 3/4																		2.0
2S	30	18	1 1/8	3/8	1/2	7	5 1/2	2 3/4	24 1/2																		3.75
2M	30	18	1 1/8	3/8	1/2	7	5 1/2	2 3/4	24 1/2																		3.75
3	30	18	1 1/8	3/8	1/2	7	3 1/2	2 3/4	24 1/2																		3.75
4	48	24	1 3/8	1/2	5/8	10	7	6 1/8	35 3/4																		8.0
5																											

STANDARD SIGN
S16-9P

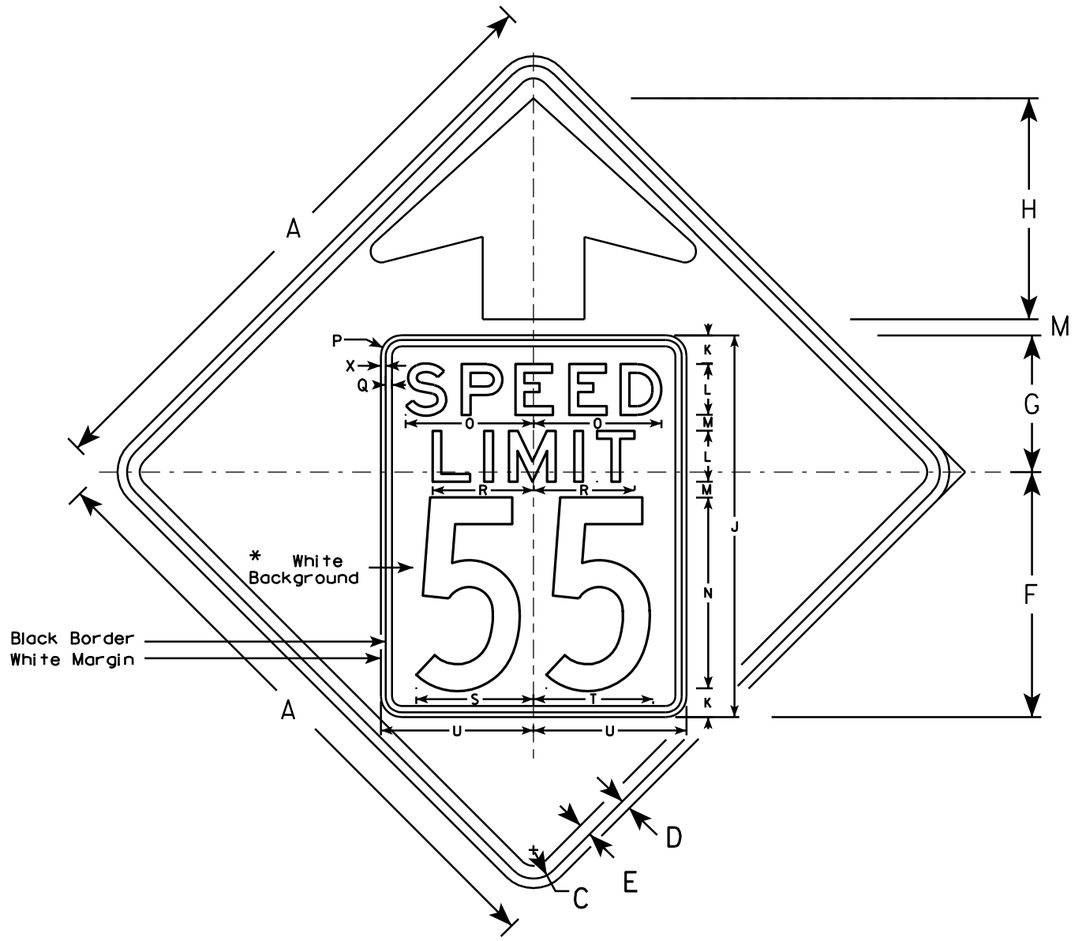
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 7/22/13 PLATE NO. S16-9P.1

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 148 | E

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\S169P.dgn PLOT DATE : 22-JUL-2013 10:32 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 2.977140:1.000000

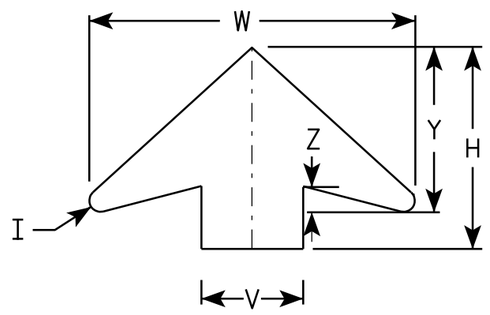


W3-5

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

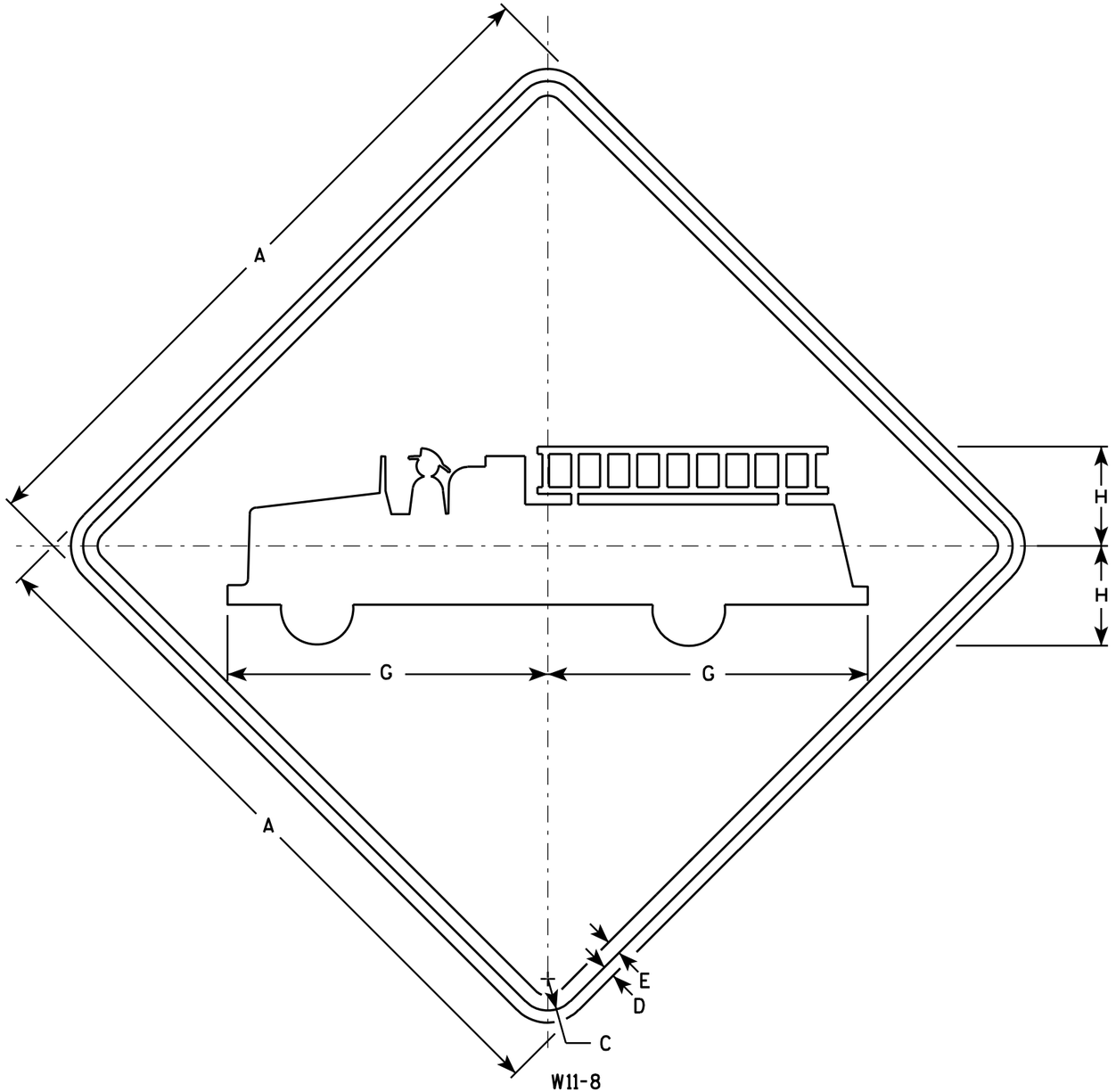
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

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

PROJECT NO:

SHEET NO: 149 E



W11-8

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - 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		11	3 3/8																			4.0
2S	30		1 3/8	1/2	5/8		13 3/4	4 3/8																			6.25
2M	30		1 3/8	1/2	5/8		13 3/4	4 3/8																			6.25
3	36		1 5/8	5/8	3/4		16 1/2	5 1/4																			9.0
4	48		2 1/4	3/4	1		22	7																			16.0
5																											

STANDARD SIGN
W11-8

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

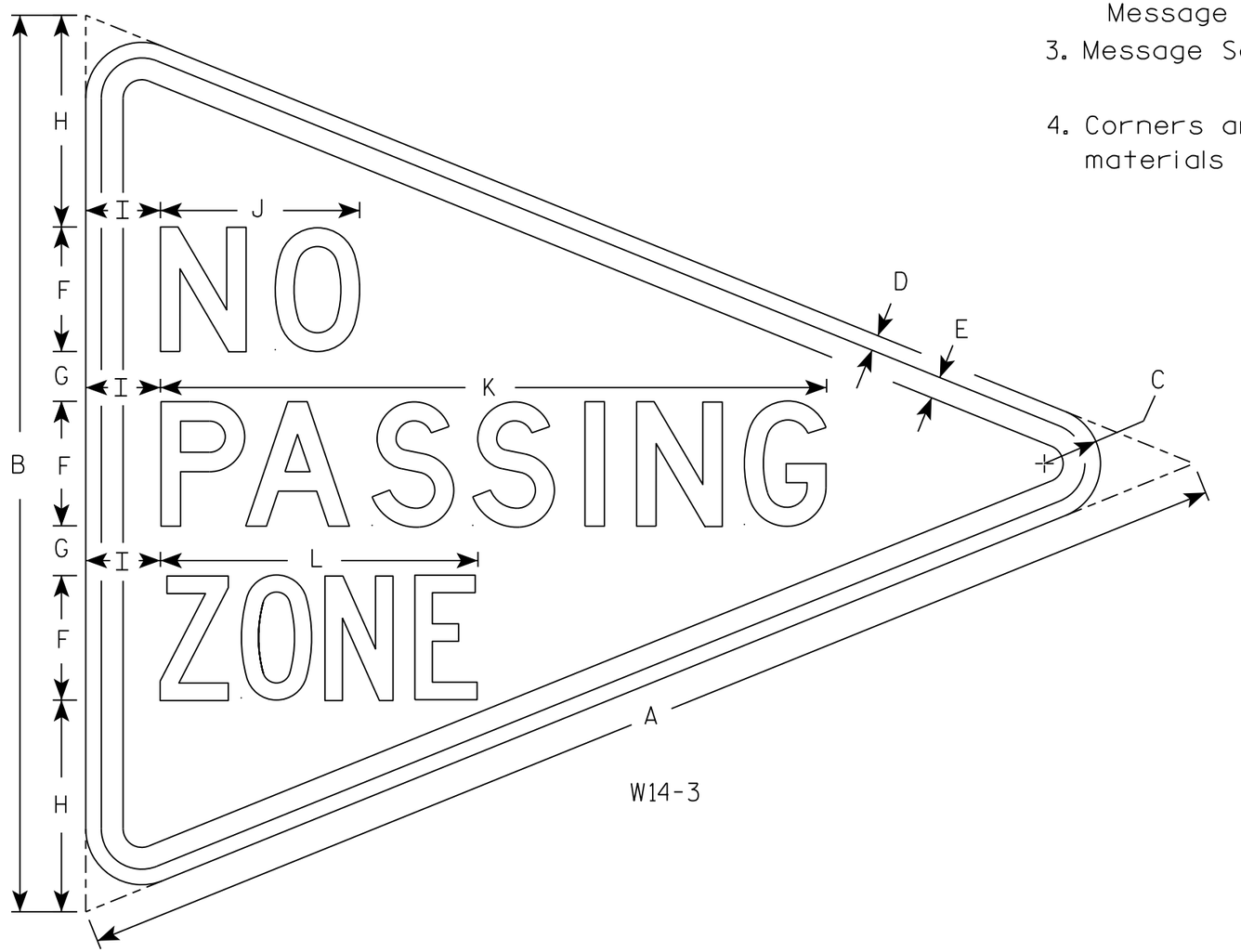
DATE 3/13/13 PLATE NO. W11-8.7

PROJECT NO:

SHEET NO: 150 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

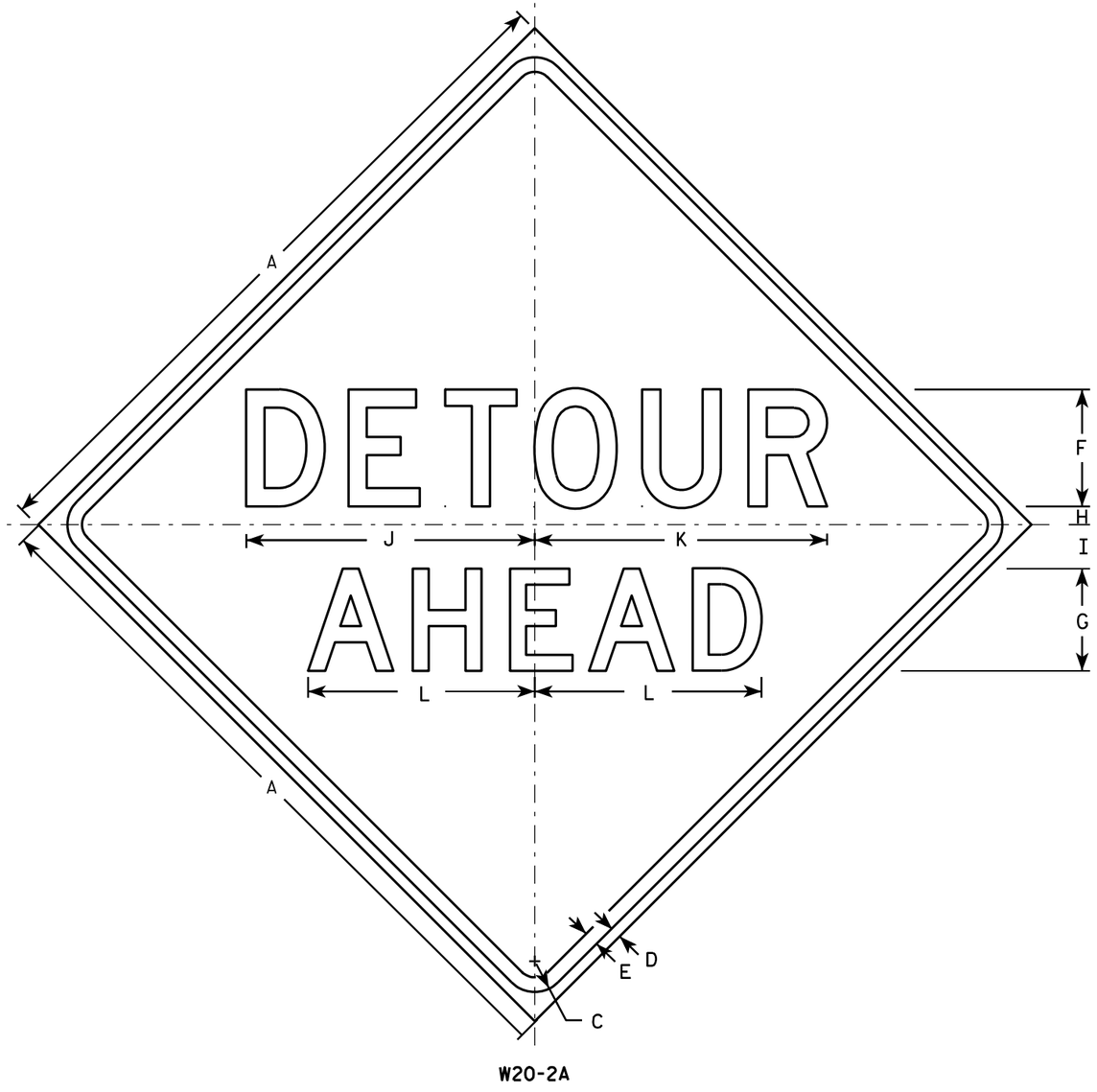
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

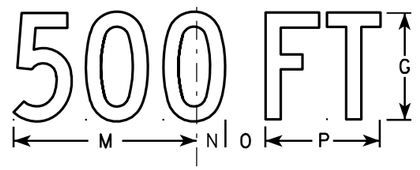
DATE 3/21/17 PLATE NO. W14-3.10

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 151 | E

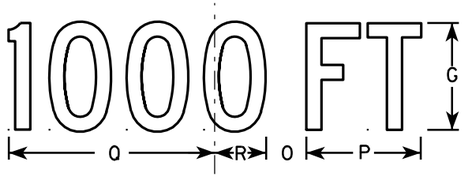
7



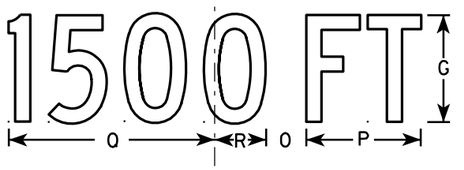
W20-2A



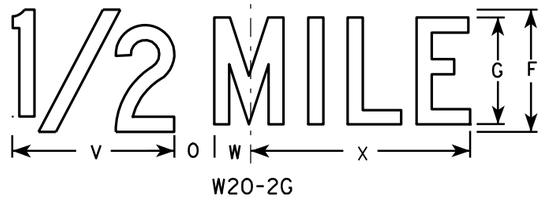
W20-2D



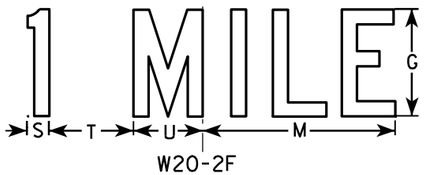
W20-2C



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: 152	E

Notes

Wisconsin Department of Transportation

Dedicated people creating transportation solutions
through innovation and exceptional service.

http://www.dot.wisconsin.gov

GRE

NOVEMBER 2017

PROJECT ID: 1500-66-71

WITH: 1500-27-71 AND 1500-67-60

COUNTY: MANITOWOC

ORDER OF SHEETS

Section No.	1	Title
Section No.	2	Typical Sections and Details (Inc. Erosion Cntrl)
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 = 228

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

REEDSVILLE - MANITOWOC

EAST VILLAGE LIMITS - BRANCH RIVER

USH 10

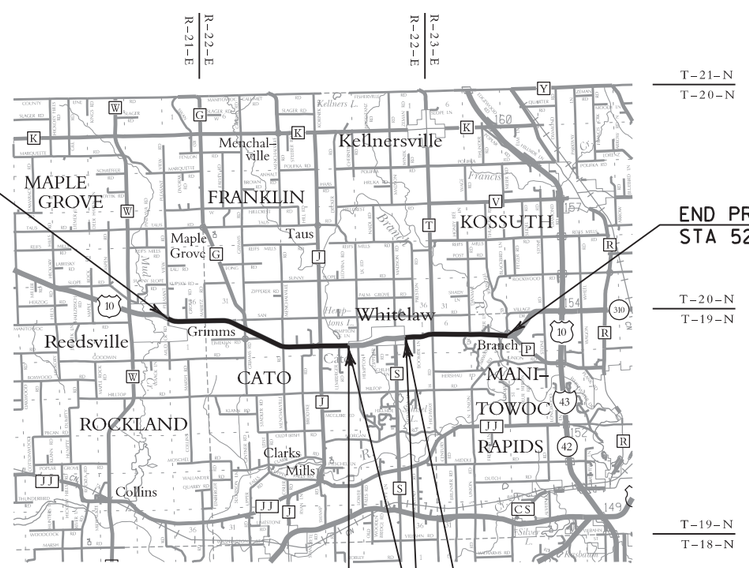
MANITOWOC COUNTY

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
1500-66-71	WISC 2017535	1

STATE PROJECT NUMBER

1500-66-71

N



LAYOUT

SCALE 0 2 MI.

TOTAL NET LENGTH OF CENTERLINE = 7.655 MI.

COORDINATES ON THIS PLAN ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM (WCCS), 'MANITOWOC' COUNTY. HORIZONTAL DATUM NAD 83,(2011). ALL DISTANCES ARE GROUND. ELEVATIONS SHOWN ON THIS PLAN ARE REFERENCED TO NAVD 1988,(2012).

DESIGN DESIGNATION

A.A.D.T. 2018	=	4,950 - 7,565
A.A.D.T. 2038	=	6,050 - 8,360
D.H.V.	=	760 - 1,045
D.D.	=	60/40
T.	=	22.5%
DESIGN SPEED	=	50 MPH (STA 53+45.50 - STA 58+00)
	=	60 MPH (STA 58+00 - STA 323+50)
	=	60 MPH (STA 395+61.49 - STA 529+73.80)
ESALS	=	3,226,000 - 4,670,000

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
- EXISTING CULVERT
- PROPOSED CULVERT (Box or Pipe)
- COMBUSTIBLE FLUIDS (CAUTION)
- MARSH AREA
- WOODED OR SHRUB AREA

PROFILE

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

UTILITIES

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

ORIGINAL PLANS PREPARED BY

emcs inc

500 North 17th Avenue
Wausau, WI 54401
715.845.1081 Fax 715.845.1099

WISCONSIN
STEPHANIE G. CHRISTENSEN
E-35808
WAUSAU, WI
PROFESSIONAL ENGINEER

5-12-2017 (Date) (Signature)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PREPARED BY

Surveyor	EMCS, INC.
Designer	EMCS, INC.
Project Manager	BRIAN HAEN
Regional Examiner	
Regional Supervisor	CHAD DEGRAVE

APPROVED FOR THE DEPARTMENT

DATE: 5/12/17 (Signature)

E

2

GENERAL NOTES

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

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

TEMPORARY STORAGE OF ANY EXCAVATED MATERIAL WILL NOT BE ALLOWED IN WETLANDS.

THE EROSION CONTROL ITEMS SHOWN ON THE PLANS ARE AT SUGGESTED LOCATIONS. THE ENGINEER MAY MODIFY LOCATIONS AS NEEDED. ALL EROSION CONTROL MEASURES SHALL BE MAINTAINED UNTIL SUCH TIME AS THE ENGINEER DETERMINES THE MEASURE IS NO LONGER NECESSARY.

EXISTING RIGHT-OF-WAY WEST OF BRODTKE ROAD IS BASED ON AVAILABLE RW PLATS. EXISTING RIGHT-OF-WAY EAST OF BRODTKE ROAD IS BASED ON AVAILABLE MAPPING AND IS INTENDED FOR EXHIBIT USE ONLY.

ORDER OF SECTION 2 SHEETS

GENERAL NOTES
PROJECT OVERVIEW
TYPICAL SECTIONS
CONSTRUCTION DETAILS
INTERSECTION DETAILS
EROSION CONTROL
PAVEMENT MARKING
PERMANENT SIGNING
TRAFFIC CONTROL
ALIGNMENT

AS-BUILTS USED FOR PLAN DEVELOPMENT

PROJECT NO: 1500-03-71, CONSTRUCTION YEAR: 1987
PROJECT NO: 1500-08-72, CONSTRUCTION YEAR: 1994

UTILITIES

ATC MANAGEMENT, INC
(ELECTRIC)
GERALD RHODE
801 O'KEEFE RD
DE PERE, WI 54115-6113
(920) 338-6523
GRHODE@ATCLLC.COM

AT&T WISCONSIN
(COMMUNICATIONS)
JOE KASSAB
205 S JEFFERSON ST
GREEN BAY, WI 54313
(920) 433-4200
JK572K@ATT.COM

FRONTIER COMMUNICATIONS OF WI LLC
(COMMUNICATIONS)
CALVIN KLADE
1851 N. 4TH AVENUE
WAUSAU, WI 54401
(715) 573-2110
CALVIN.KLADE@FTR.COM

COMCAST
(COMMUNICATIONS)
ROBERT PERONTO
1614 WASHINGTON ST
P.O. BOX 429
MANITOWOC, WI 54221
(920) 374-0309
ROBERT_PERONTO@CABLE.COMCAST.COM

TIME WARNER CABLE
(COMMUNICATIONS)
VINCE ALBIN
3520 E. DESTINATION DR
APPLETON, WI 54915
(920) 378-0444
VINCE.ALBIN@CHARTER.COM

TDS TELECOM
(COMMUNICATIONS)
STEVE JAKUBIEC
SUITE 218A
10 COLLEGE AVE
APPLETON, WI 54911
(920) 882-4166
STEVE.JAKUBIEC@TDSTELECOM.COM

WISCONSIN PUBLIC SERVICE CORPORATION
(ELECTRIC)
CURT BRADLEY
800 COLUMBUS ST
TWO RIVERS, WI 54241
(920) 639-5866
CMBRADLEY@WISCONSINPUBLICSERVICE.COM

VILLAGE OF WHITELAW
(WATER & SEWER)
GERALD LINSMEIER
147 W MENASHA AVE
P.O. BOX 294
WHITELAW, WI 54247-0294
(920) 732-1331
VILLAGEOFWHITELAW@COMCAST.NET

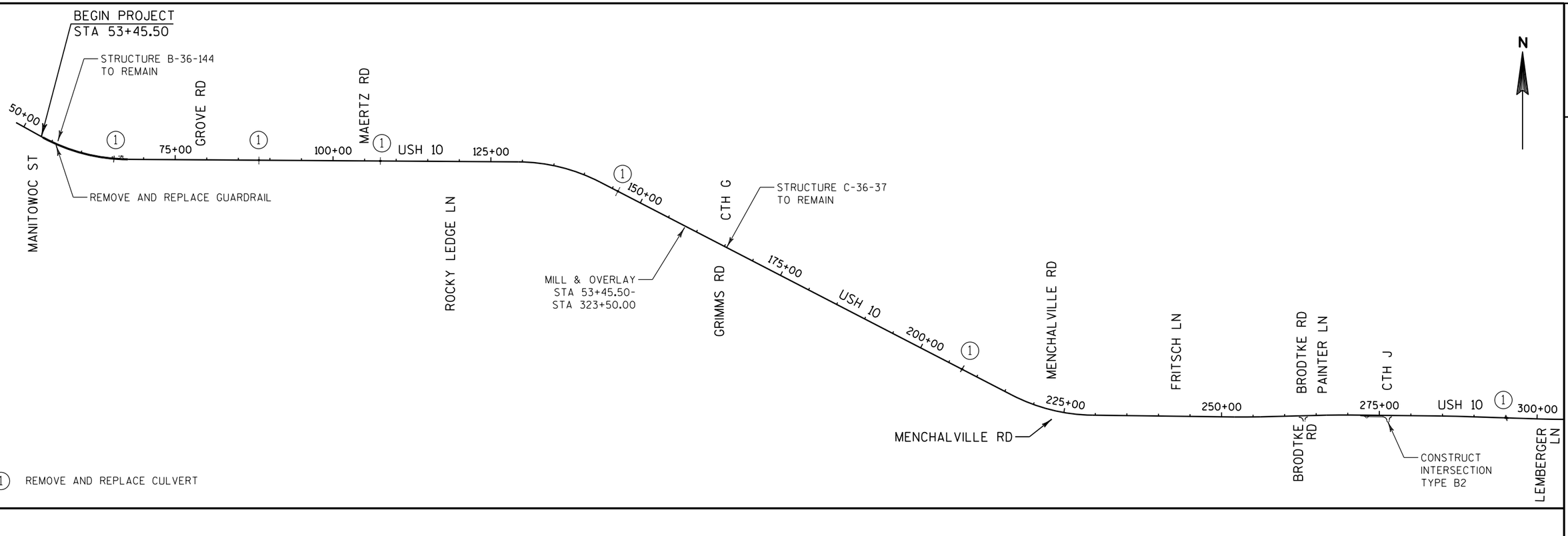
WISCONSIN PUBLIC SERVICE CORPORATION
(GAS)
DON CONNER
800 COLUMBUS ST
P.O. BOX 236
TWO RIVERS, WI 54241-0236
(920) 655-6042
DJCONNER@WISCONSINPUBLICSERVICE.COM

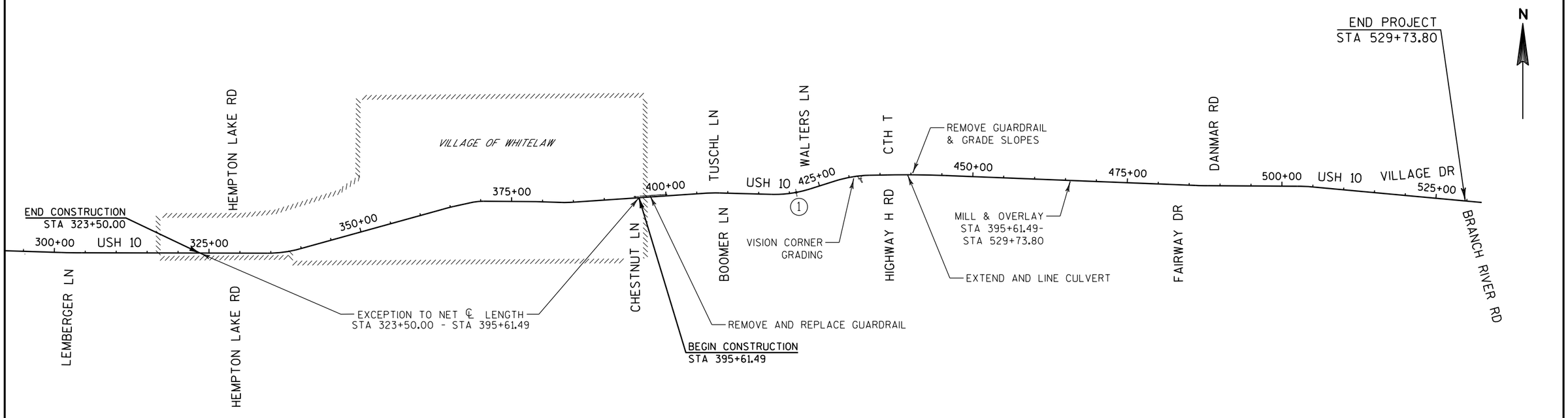
DIGGERS HOTLINE
Dial 811 or (800) 242-8511
www.DiggersHotline.com

OTHER CONTACTS

DNR LIAISON
MATT SHAEVE
DNR NORTHEAST REGIONAL HQ
2984 SHAWANO AVE
GREEN BAY, WI 54313

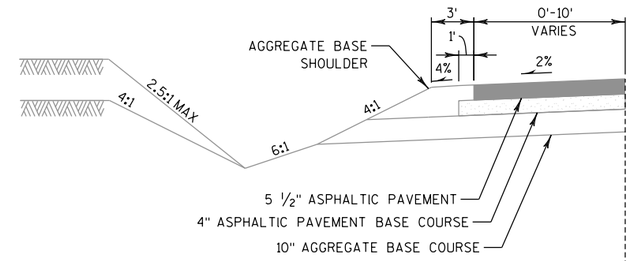
US CORPS OF ENGINEERS
JOEY SHOEMAKER
OLD FORT SQUARE
211 N. BROADWAY, SUITE 221
GREEN BAY, WI 54303



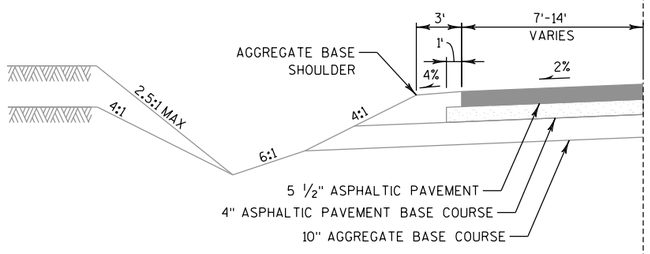


PROJECT NO: 1500-66-71	HWY: USH 10	COUNTY: MANITOWOC	PROJECT OVERVIEW	SHEET 3	E

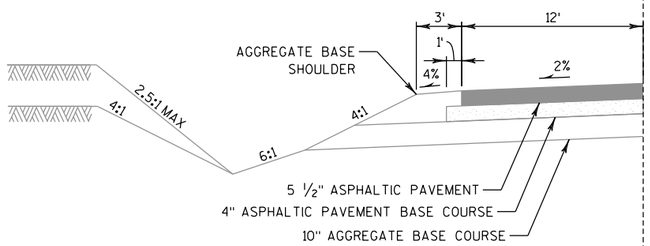
STA 53+45.50 - STA 58+50 LT



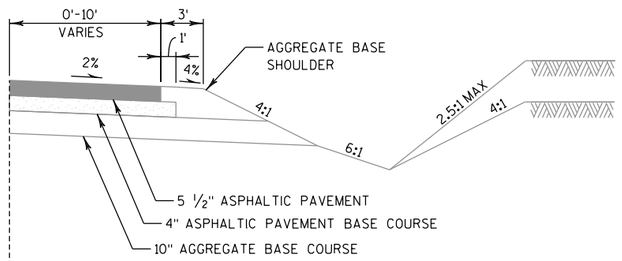
STA 437+07 - STA 442+00 LT



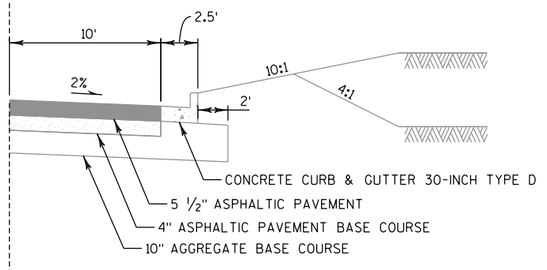
STA 523+04 - STA 529+73.80 LT



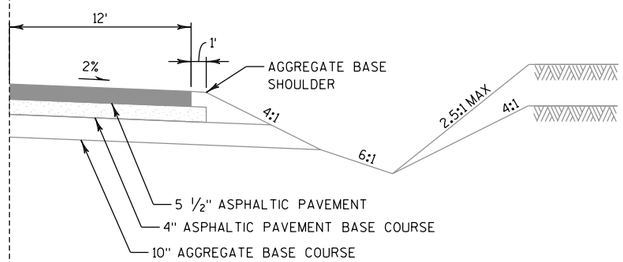
STA 53+45.50 - STA 58+50 RT

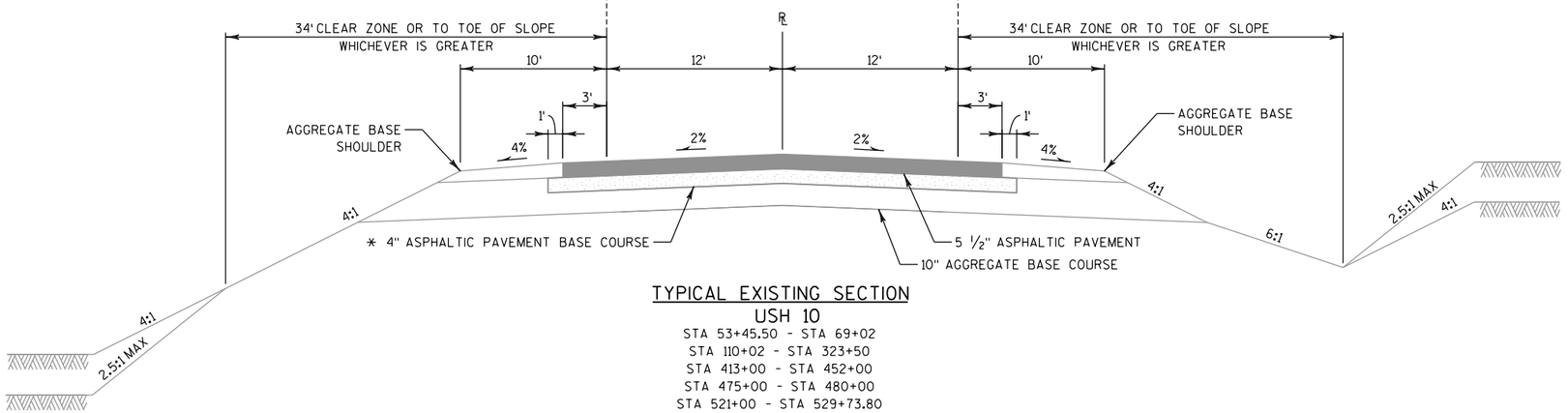


STA 523+66 - STA 526+54 RT



STA 526+54 - STA 529+73.80 RT





TYPICAL EXISTING SECTION
USH 10

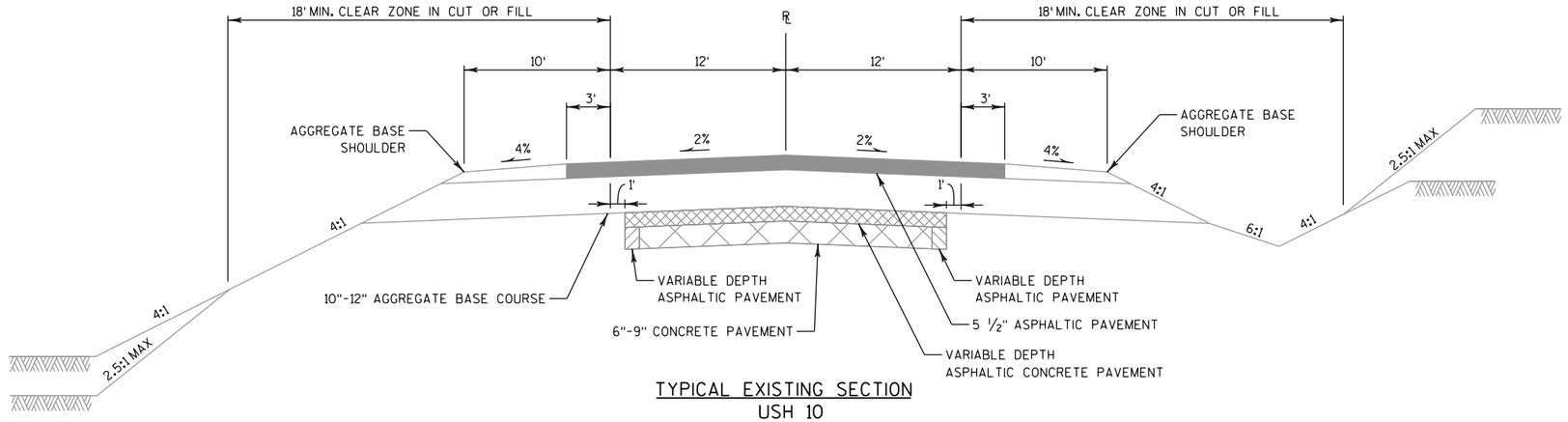
STA 53+45.50 - STA 69+02
STA 110+02 - STA 323+50
STA 413+00 - STA 452+00
STA 475+00 - STA 480+00
STA 521+00 - STA 529+73.80

NOTES

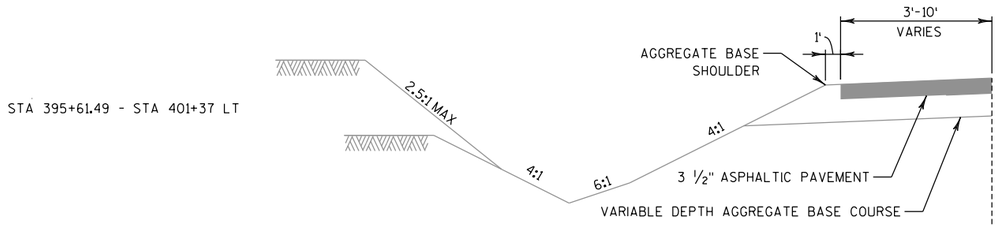
PAVEMENT CROSS SLOPE VARIES DUE TO SUPERELEVATION
SEE ALIGNMENT DETAIL FOR SUPERELEVATION DATA

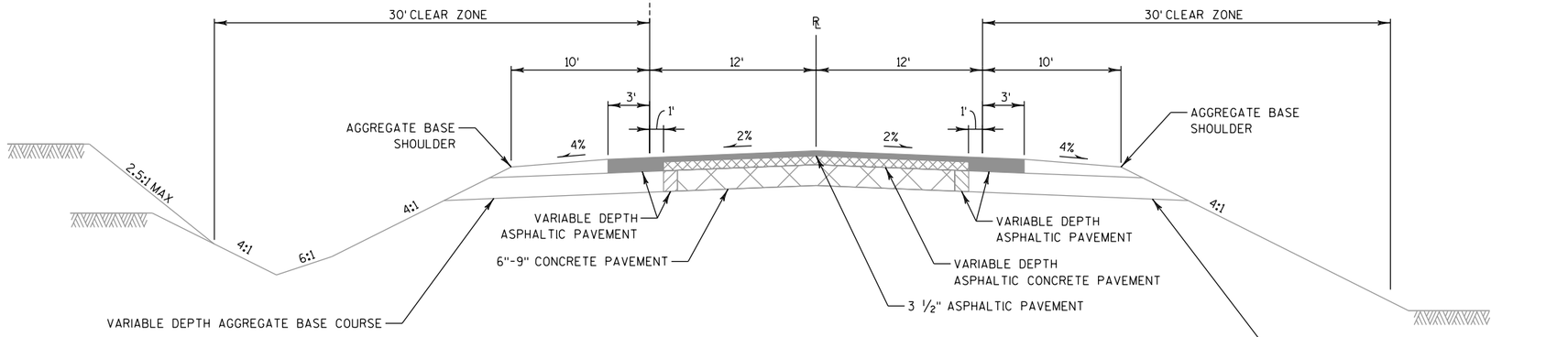
* STA 252+02 - STA 323+50 4" AGGREGATE BASE COURSE
WAS CONSTRUCTED INSTEAD OF 4" ASPHALTIC PAVEMENT BASE COURSE

PROJECT NO: 1500-66-71	HWY: USH 10	COUNTY: MANITOWOC	TYPICAL SECTIONS	SHEET 4	E



TYPICAL EXISTING SECTION
USH 10
STA 69+02 - STA 110+02
STA 452+00 - STA 475+00
STA 480+00 - STA 521+00

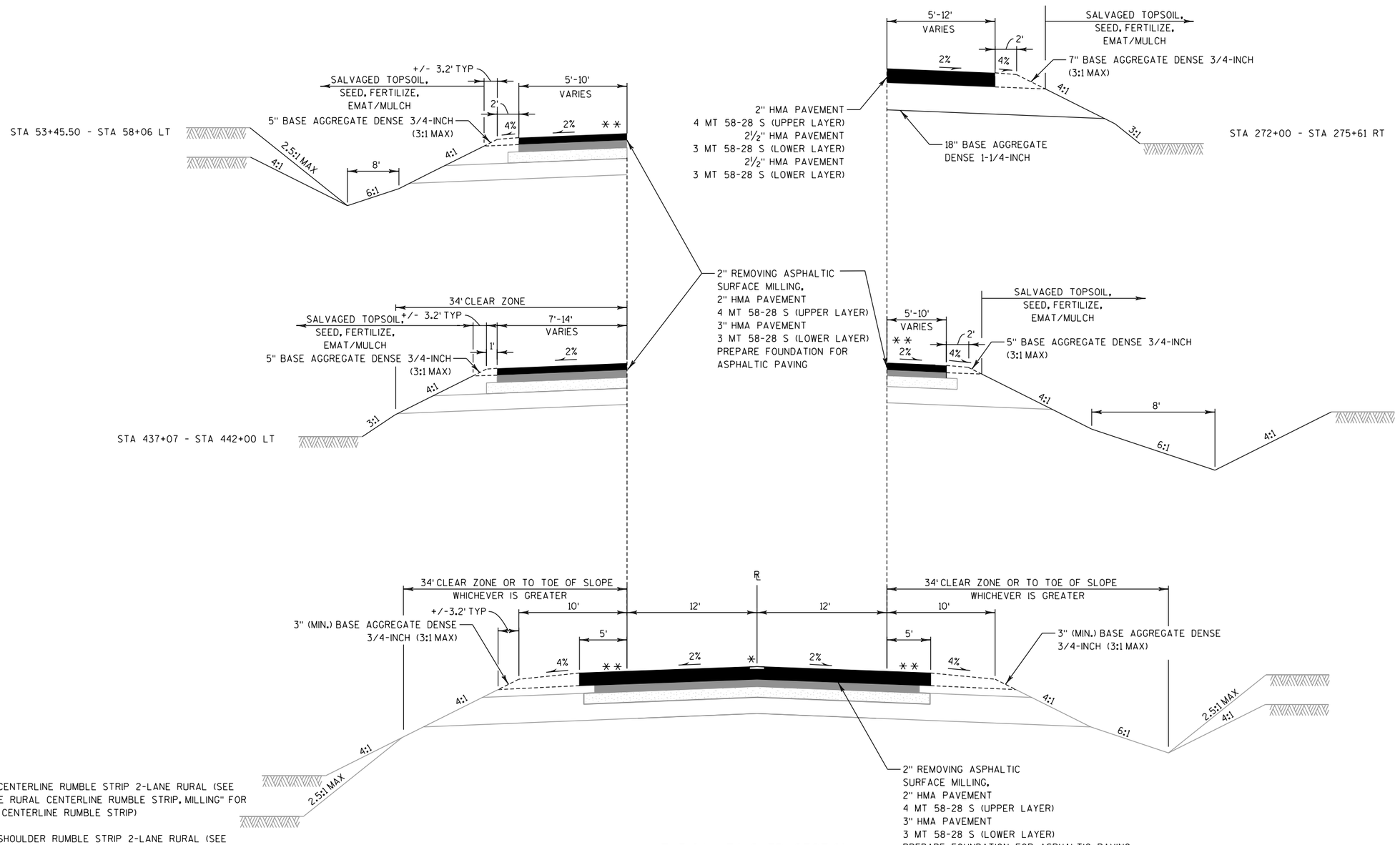




TYPICAL EXISTING SECTION
USH 10
STA 395+61.49 - STA 413+00

NOTE
PAVEMENT CROSS SLOPE VARIES DUE TO SUPERELEVATION
SEE ALIGNMENT DETAIL FOR SUPERELEVATION DATA

PROJECT NO: 1500-66-71	HWY: USH 10	COUNTY: MANITOWOC	TYPICAL SECTIONS	SHEET 5	E



NOTES

* ASPHALTIC CENTERLINE RUMBLE STRIP 2-LANE RURAL (SEE SDD "2-LANE RURAL CENTERLINE RUMBLE STRIP, MILLING" FOR LAYOUT OF CENTERLINE RUMBLE STRIP)

* * ASPHALTIC SHOULDER RUMBLE STRIP 2-LANE RURAL (SEE SDD)

PAVEMENT CROSS SLOPES VARY DUE TO SUPER ELEVATION. (SEE ALIGNMENT DETAIL SHEET FOR SUPERELEVATION DATA)

SEE STANDARD DETAIL DRAWINGS FOR GUARDRAIL ITEMS AND CONSTRUCTION DETAILS FOR ADDITIONAL INFORMATION

PAVEMENT SAFETY EDGE REQUIRED. (SEE SAFETY EDGE STANDARD DETAIL)

SEE EXISTING TYPICAL SECTIONS FOR REMAINING UNDERLYING LAYERS

TYPICAL FINISHED SECTION
USH 10

STA 53+45.50 - STA 69+02
STA 110+02 - STA 323+50
STA 413+00 - STA 452+00
STA 475+00 - STA 480+00
STA 521+00 - STA 523+04

PROJECT NO: 1500-66-71	HWY: USH 10	COUNTY: MANITOWOC	TYPICAL SECTIONS	SHEET 6	E

NOTES

* ASPHALTIC CENTERLINE RUMBLE STRIP 2-LANE RURAL (SEE SDD "2-LANE RURAL CENTERLINE RUMBLE STRIP, MILLING" FOR LAYOUT OF CENTERLINE RUMBLE STRIP)

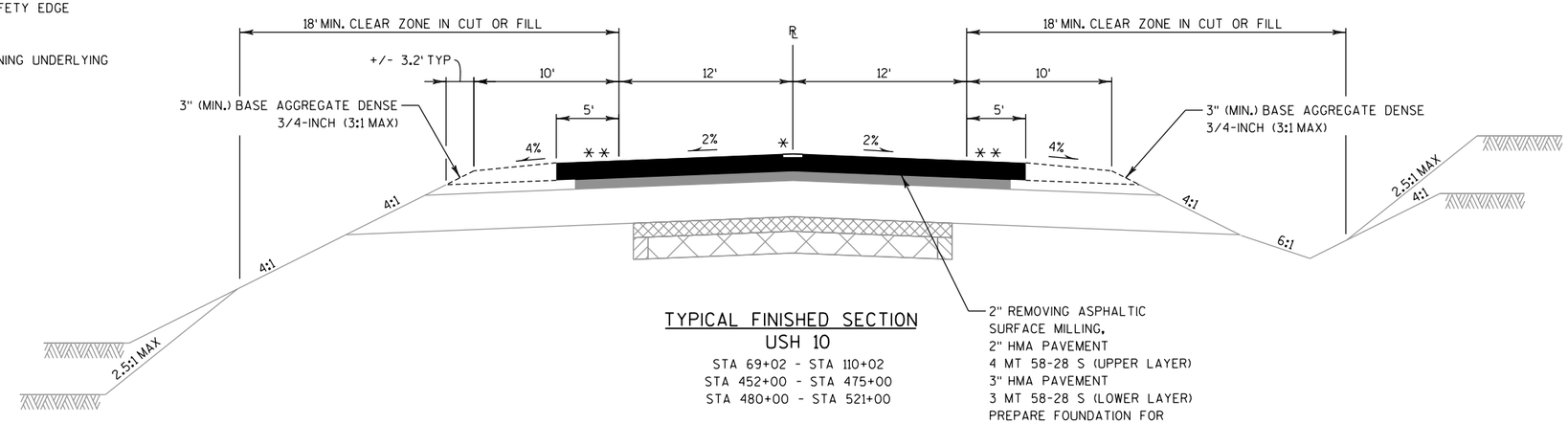
** ASPHALTIC SHOULDER RUMBLE STRIP 2-LANE RURAL (SEE SDD)

PAVEMENT CROSS SLOPES VARY DUE TO SUPER ELEVATION. (SEE ALIGNMENT DETAIL SHEET FOR SUPERELEVATION DATA)

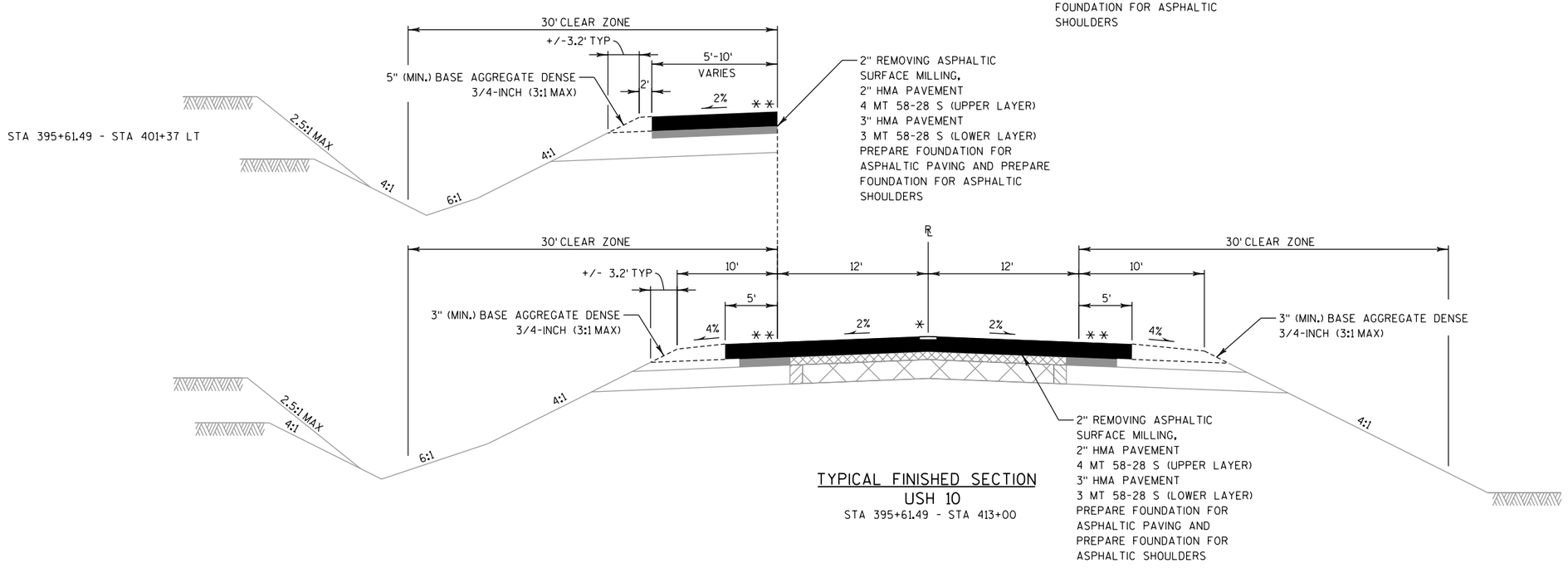
SEE STANDARD DETAIL DRAWINGS FOR GUARDRAIL ITEMS AND CONSTRUCTION DETAILS FOR ADDITIONAL INFORMATION

PAVEMENT SAFETY EDGE REQUIRED. (SEE SAFETY EDGE STANDARD DETAIL)

SEE EXISTING TYPICAL SECTIONS FOR REMAINING UNDERLYING LAYERS



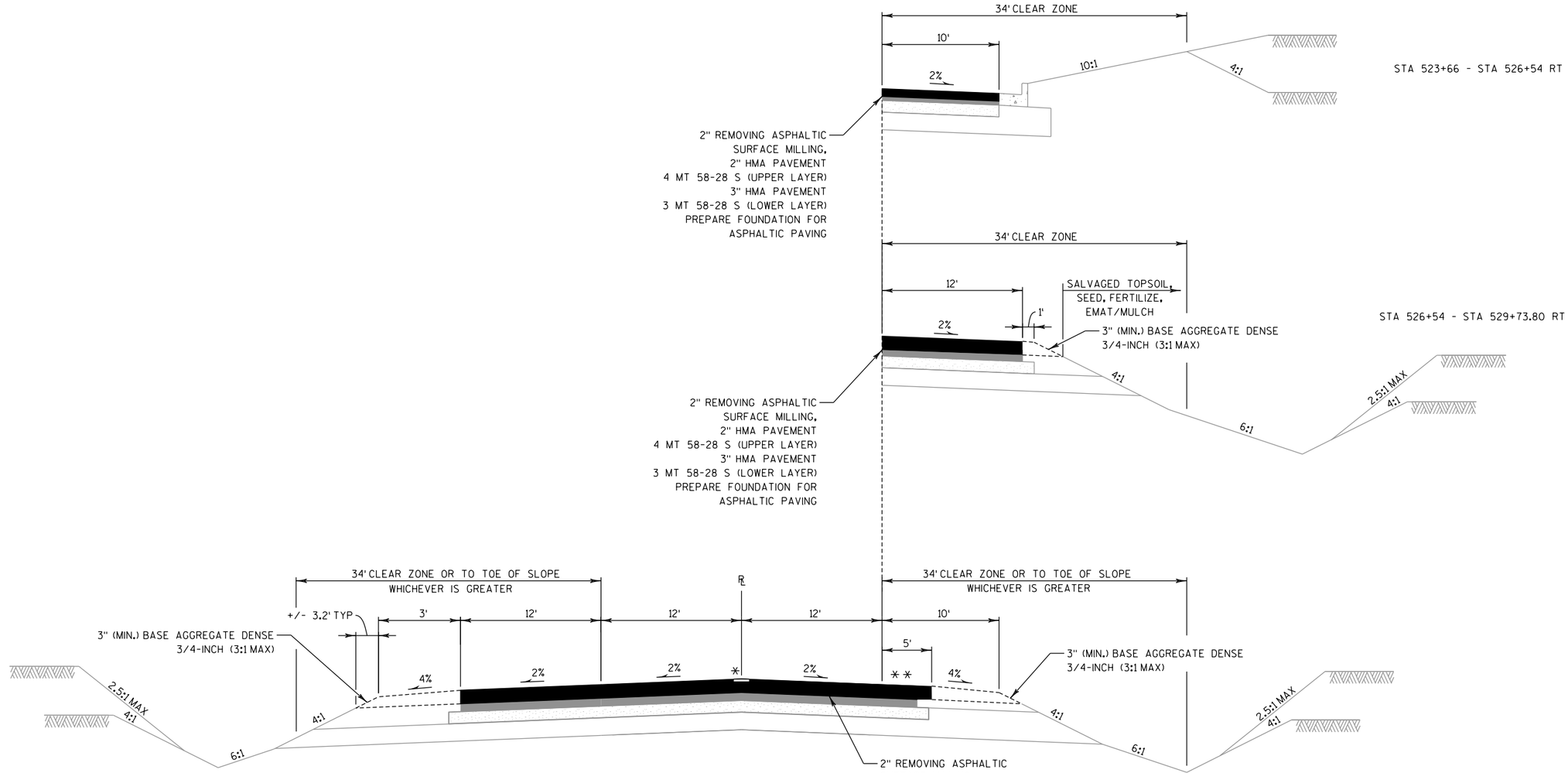
TYPICAL FINISHED SECTION
USH 10
STA 69+02 - STA 110+02
STA 452+00 - STA 475+00
STA 480+00 - STA 521+00



TYPICAL FINISHED SECTION
USH 10
STA 395+61.49 - STA 413+00

PROJECT NO: 1500-66-71	HWY: USH 10	COUNTY: MANITOWOC	TYPICAL SECTIONS	SHEET 7	E

2



TYPICAL FINISHED SECTION
USH 10
STA 523+04 - STA 529+73.80

NOTES

* ASPHALTIC CENTERLINE RUMBLE STRIP 2-LANE RURAL (SEE SDD "2-LANE RURAL CENTERLINE RUMBLE STRIP, MILLING" FOR LAYOUT OF CENTERLINE RUMBLE STRIP)

** ASPHALTIC SHOULDER RUMBLE STRIP 2-LANE RURAL (SEE SDD)

PAVEMENT CROSS SLOPES VARY DUE TO SUPER ELEVATION. (SEE ALIGNMENT DETAIL SHEET FOR SUPERELEVATION DATA)

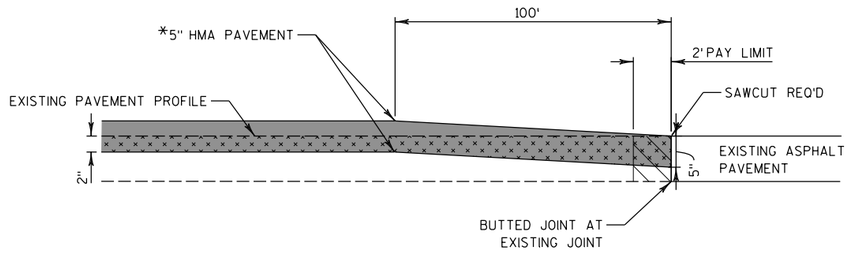
SEE STANDARD DETAIL DRAWINGS FOR GUARDRAIL ITEMS AND CONSTRUCTION DETAILS FOR ADDITIONAL INFORMATION

PAVEMENT SAFETY EDGE REQUIRED. (SEE SAFETY EDGE STANDARD DETAIL)

SEE EXISTING TYPICAL SECTIONS FOR REMAINING UNDERLYING LAYERS

PROJECT NO: 1500-66-71	HWY: USH 10	COUNTY: MANITOWOC	TYPICAL SECTIONS	SHEET 8	E

2



REMOVING ASPHALTIC SURFACE BUTT JOINTS (FULL DEPTH REMOVAL OPTIONAL)

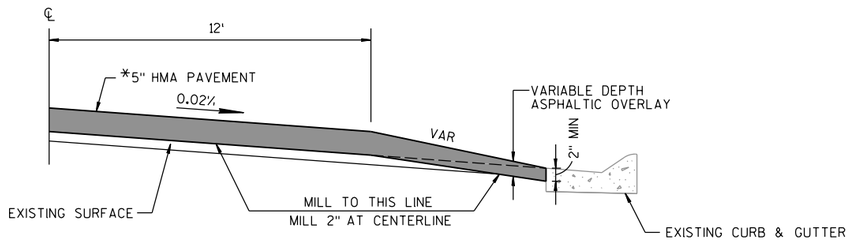
REMOVING ASPHALTIC SURFACE MILLING

DETAIL OF ASPHALTIC SURFACE BUTT JOINT ON MAINLINE

STA 53+45.50
STA 323+50.00
STA 395+61.49
STA 529+73.80

NOTE

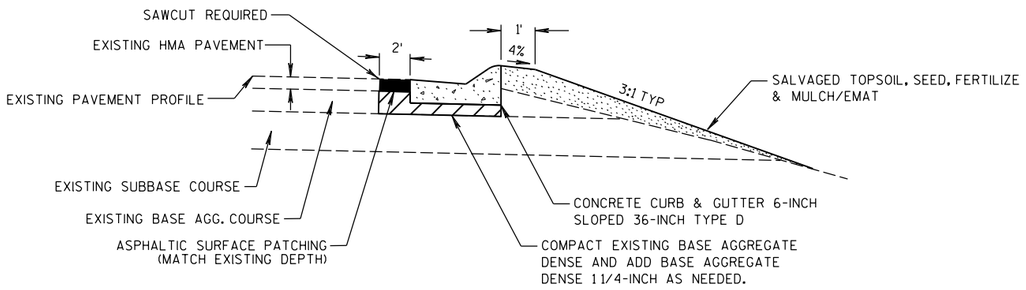
* SEE TYPICAL SECTIONS FOR LAYER INFORMATION



BUTT JOINT DETAIL FOR CURB & GUTTER (MILLED)

NOTE

* SEE TYPICAL SECTIONS FOR LAYER INFORMATION



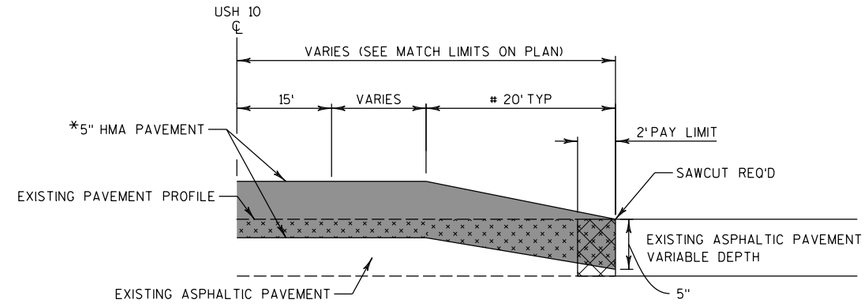
DETAIL OF CURB & GUTTER INSTALLATION

AT INTERSECTION RADII
BRODTKE RD
CTH J

NOTES

PROPOSED CURB & GUTTER AND ASPHALTIC SURFACE PATCHING IS TO BE PLACED PRIOR TO MILL AND PAVING OPERATIONS

MINIMUM OF 4" OF SALVAGED TOPSOIL IN RURAL AREAS REQUIRED.



REMOVE MATERIAL UNDER ITEM 'REMOVING ASPHALTIC SURFACE BUTT JOINTS (FULL DEPTH REMOVAL OPTIONAL)
MATERIAL SHALL NOT BE REMOVED UNDER THIS ITEM UNTIL 24 HOURS BEFORE SIDE ROAD PAVING

REMOVING ASPHALTIC SURFACE MILLING, (VARIABLE DEPTH)

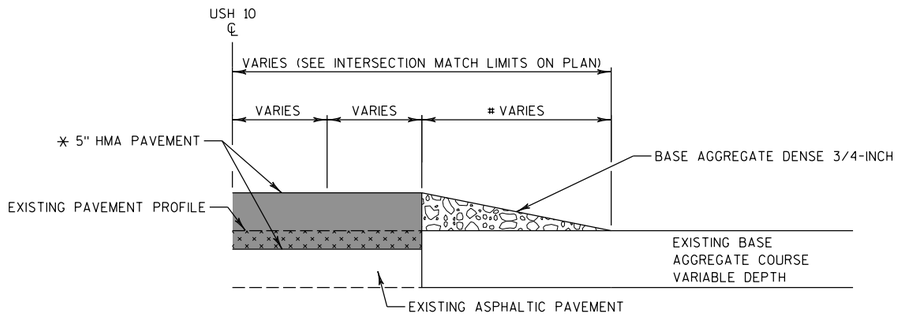
ASPHALTIC SURFACE BUTT JOINT DETAIL AT PAVED INTERSECTIONS & PAVED DRIVEWAYS

GROVE RD	CTH J
MAERTZ RD	LEMBERGER LN
ROCKY LEDGE LN	TUSCHL LN
STEINBERG LN	BOOMER LN
CTH G/GRIMMS RD	CTH T/HIGHWAY H RD
MENCHALVILLE RD	FAIRWAY DR
FRITSCH LN	DANMAR RD
BRODTKE RD	VILLAGE DR
PAINTER LN	BRANCH RIVER RD

NOTES

INTERSECTION & SIDE ROAD MATCH POINTS SHOWN ON PLAN
DRIVEWAY MATCH POINTS TO BE DETERMINED IN THE FIELD BY ENGINEER, 10' TYP

* SEE TYPICAL SECTIONS FOR LAYER INFORMATION



REMOVING ASPHALTIC SURFACE MILLING 2"

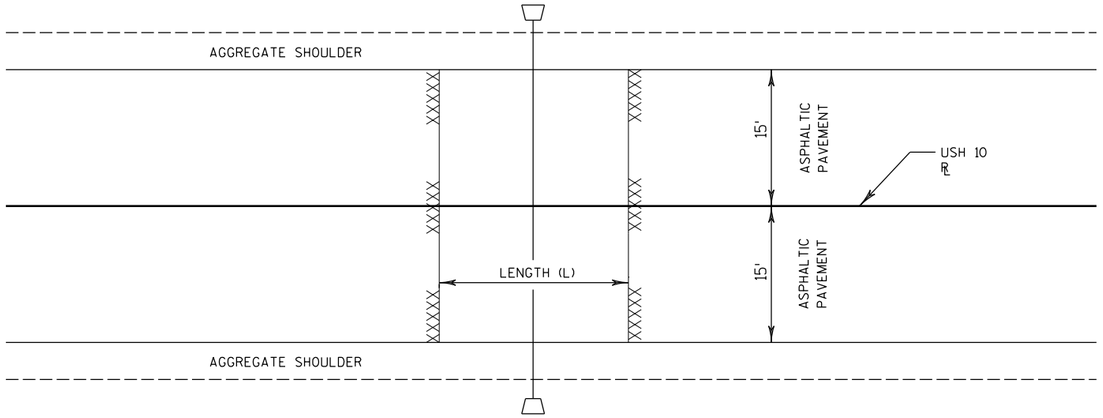
MATCH DETAIL AT UNPAVED INTERSECTIONS & DRIVEWAYS

WALTERS LN

NOTES

INTERSECTION & SIDE ROAD MATCH POINTS SHOWN ON PLAN
DRIVEWAY MATCH POINTS TO BE DETERMINED IN THE FIELD BY ENGINEER, 10' TYP

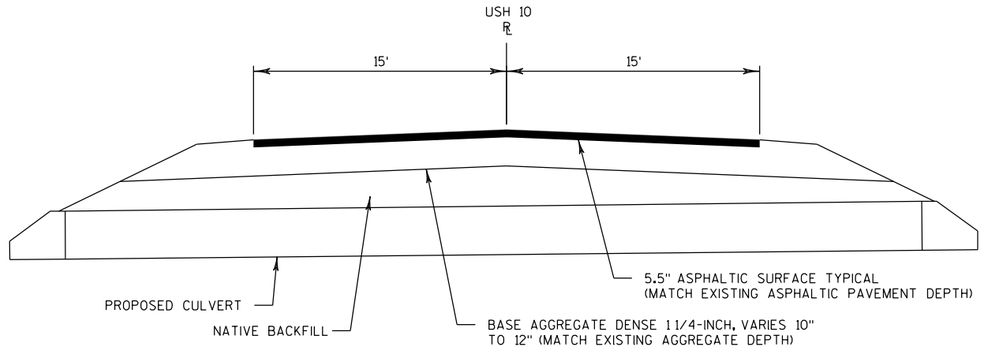
* SEE TYPICAL SECTIONS FOR LAYER INFORMATION



PLAN

CULVERT(S)

LOCATION	L (FT)	APPROXIMATE DEPTH TO TOP OF CULVERT AT ℄ (FT)
STA 65+28	35	2.25
STA 88+25	30	4
STA 107+50	32	3
STA 146+00	25	10
STA 207+34	30	7.5
STA 295+15	55	2.25
STA 421+09	34	5.5

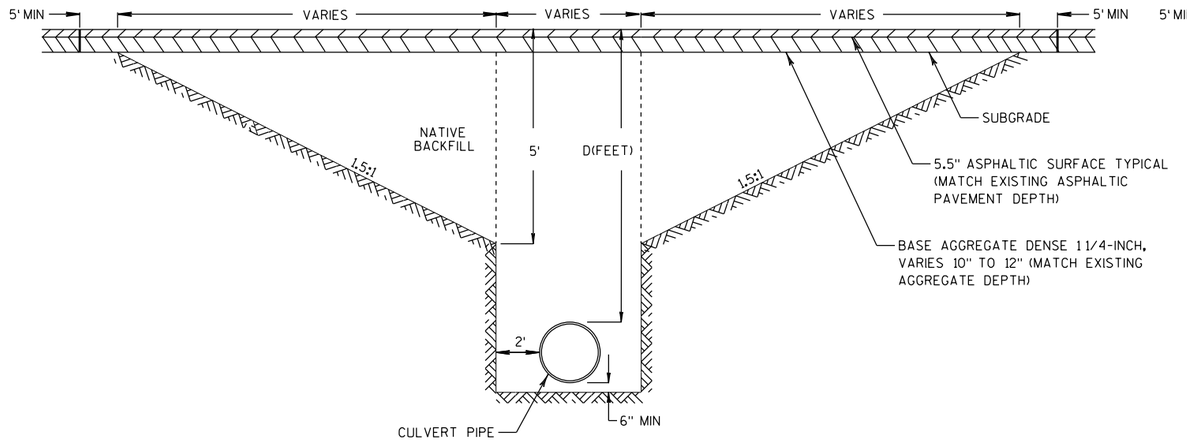


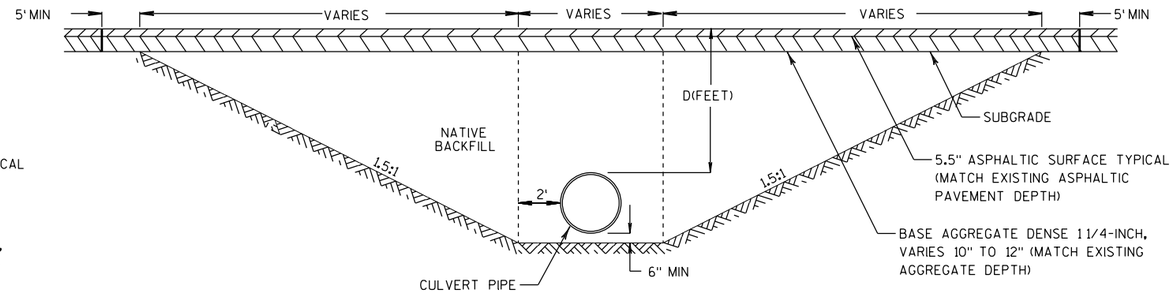
TYPICAL SECTION

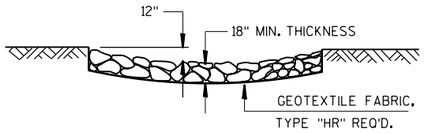
NOTES

CULVERTS WILL BE REPLACED UNDER DETOUR OF USH 10. THE ENTIRE CULVERT REPLACEMENT SHALL TAKE PLACE IN ONE CONTINUOUS OPERATION UNLESS OTHERWISE APPROVED BY THE ENGINEER

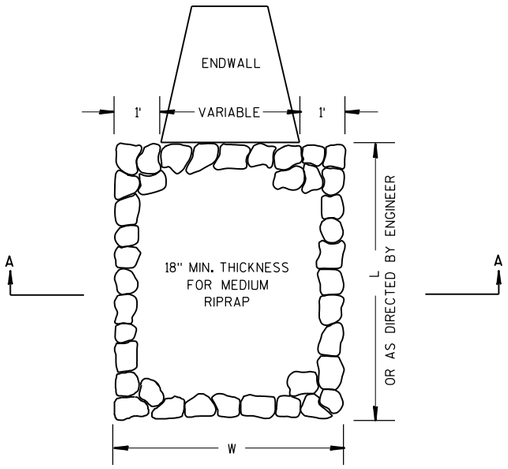
REPLACE CULVERTS PRIOR TO MILL & OVERLAY ON USH 10. USE THE ABOVE PROPOSED PAVEMENT STRUCTURE UNLESS OTHERWISE DESIGNATED BY THE ENGINEER





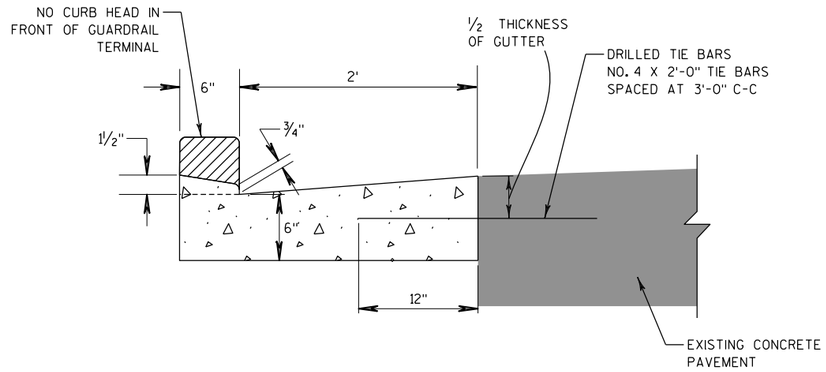


SECTION A-A



MEDIUM RIPRAP TREATMENT AT CULVERTS

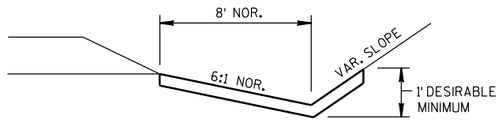
(SEE EROSION CONTROL PLANS FOR LOCATIONS AND SIZE)



CONCRETE CURB & GUTTER, 30-INCH TYPE A

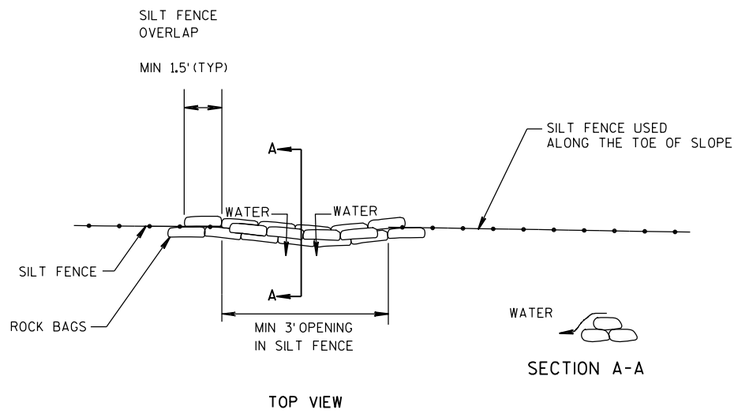
STA 394+73 - STA 395+61 LT

(FOR OTHER DETAILS NOT SHOWN, SEE SDD FOR CONCRETE CURB & GUTTER)



EROSION MAT DETAIL FOR DITCHES

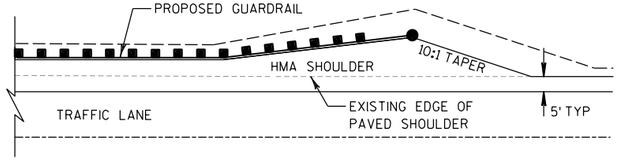
(SEE EROSION CONTROL PLANS FOR ADDITIONAL INFORMATION)



ROCK BAGS SILT FENCE RELIEF DETAIL

PAID AS ROCK BAGS

(SEE EROSION CONTROL PLANS FOR ADDITIONAL INFORMATION)

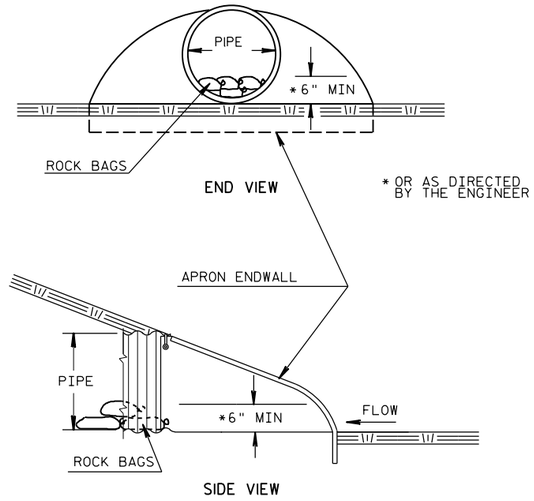


DETAIL FOR ASPHALTIC SHOULDER AT GUARDRAIL

RUNOFF COEFFICIENT TABLE

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

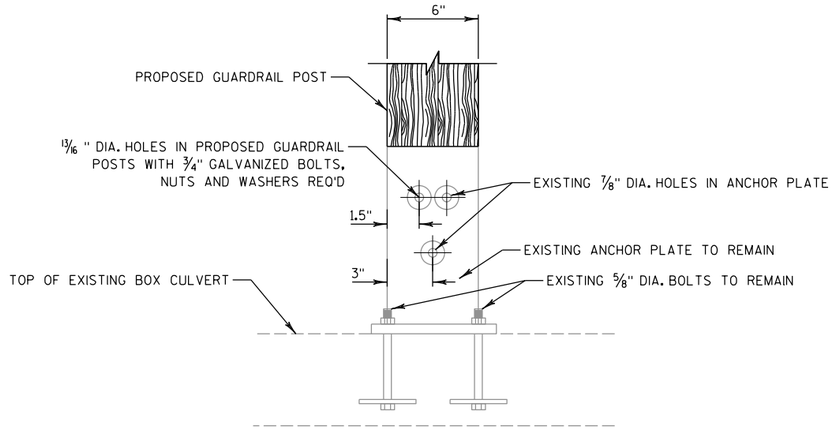
TOTAL PROJECT AREA = 94 ACRES
TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = 11.2 ACRES (GRADING AREA)



CULVERT PIPE CHECKS

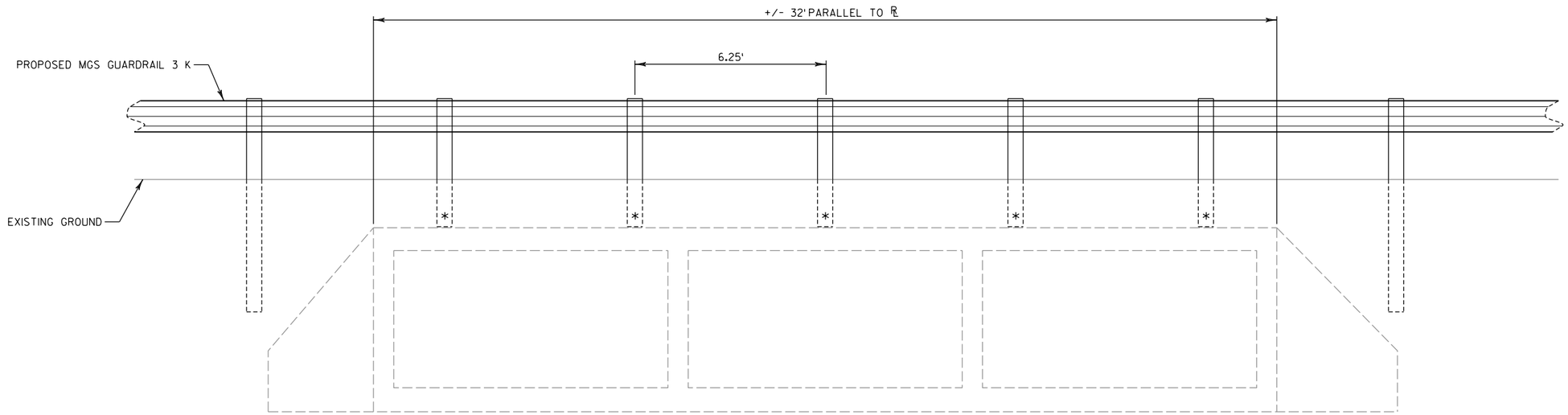
INSTALL ON INLET END

(SEE EROSION CONTROL PLANS FOR ADDITIONAL INFORMATION)



*GUARDRAIL POST CONNECTION DETAIL

ELEVATION VIEW OF ANCHOR BRACKET LOOKING PERPENDICULAR TO ℄
10 POSTS REQ'D FOR MOUNTING TO EXISTING BRACKETS
PAID FOR AS GUARDRAIL POST CONNECTION



GUARDRAIL POST CONNECTION OVER BOX CULVERT PROFILE VIEW

ELEVATION VIEW LOOKING PERPENDICULAR TO ℄
B-36-144 OVER UNNAMED CREEK
STA 55+50

NOTES

CONNECT WOOD POSTS TO EXISTING GUARDRAIL POST CONNECTIONS

MATCH POST SPACING ON STRUCTURE; USE HALF POST SPACING WITH LONGER POSTS (K) OUTSIDE OF STRUCTURE

EXPOSE AND CONFIRM SPACING OF POST CONNECTIONS PRIOR TO INSTALLATION OF ENTIRE GUARDRAIL SYSTEM

2

2

LEGEND

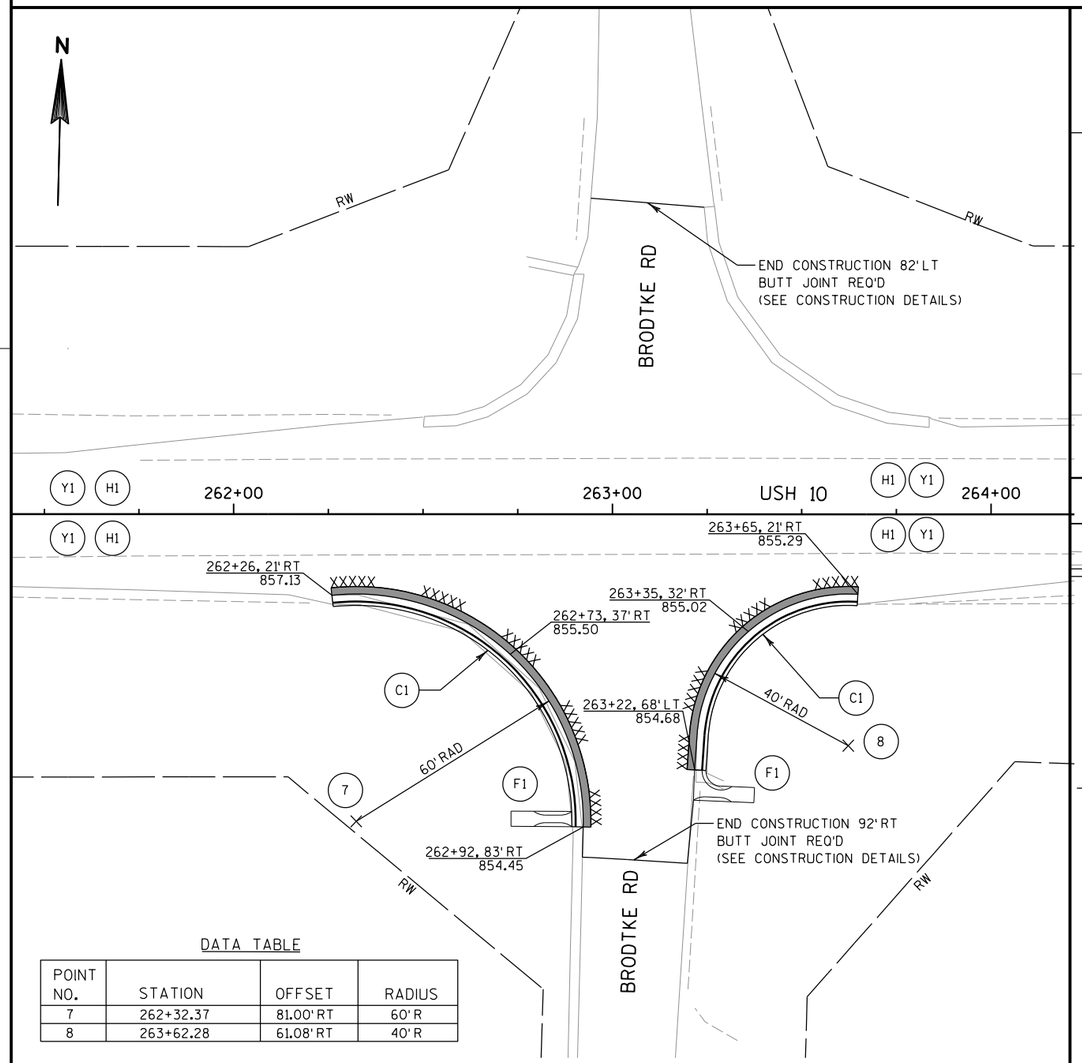
- (C1) CONCRETE CURB & GUTTER 6-INCH, SLOPED 36-INCH TYPE D
- (F1) ASPHALTIC FLUME (NO SOD REQUIRED)
- (H1) 5" HMA PAVEMENT (SEE TYPICAL SECTIONS FOR PAVEMENT STRUCTURE)
- (H2) 7" HMA PAVEMENT (SEE TYPICAL SECTIONS FOR PAVEMENT STRUCTURE)
- (Y1) 2" REMOVING ASPHALTIC SURFACE MILLING
- XXXXX SAWING ASPHALT
- ASPHALTIC SURFACE PATCHING (SEE CONSTRUCTION DETAILS)

NOTES

RADIUS DIMENSIONS ARE SHOWN TO CURB & GUTTER FLANGELINE

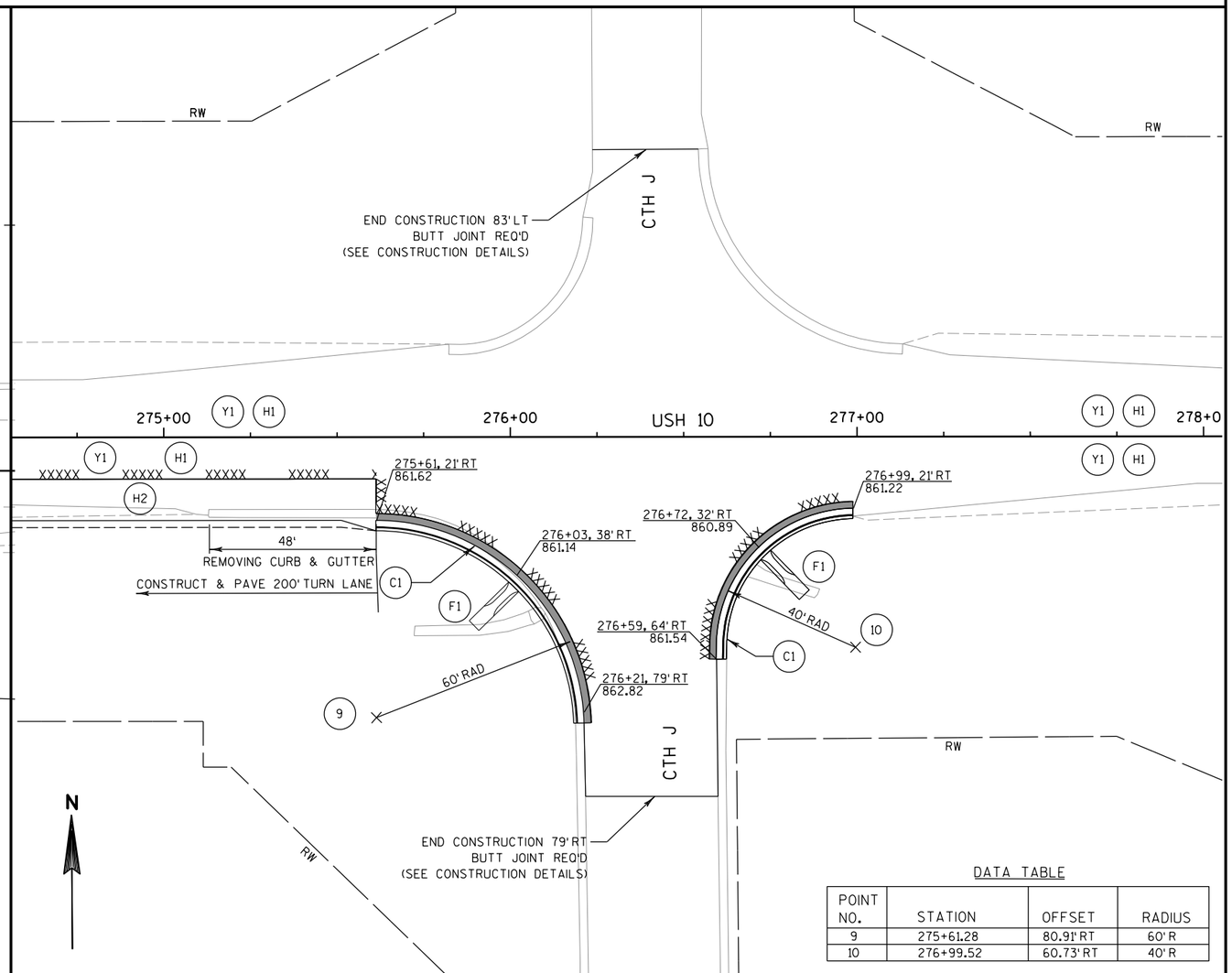
PAVEMENT GRADES SHOWN ALONG THE CURB & GUTTER ARE SHOWN AT THE FLANGELINE

REPLACE CURB & GUTTER PRIOR TO MILL AND PAVING OPERATIONS



DATA TABLE

POINT NO.	STATION	OFFSET	RADIUS
7	262+32.37	81.00'RT	60'R
8	263+62.28	61.08'RT	40'R



DATA TABLE

POINT NO.	STATION	OFFSET	RADIUS
9	275+61.28	80.91'RT	60'R
10	276+99.52	60.73'RT	40'R

PROJECT NO: 1500-66-71	HWY: USH 10	COUNTY: MANITOWOC	INTERSECTION DETAIL - BRODTKE RD & CTH J	SHEET 14	E

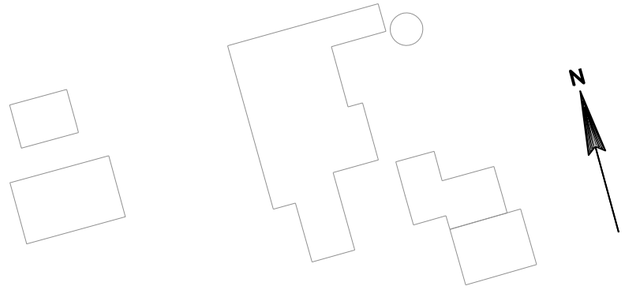
2

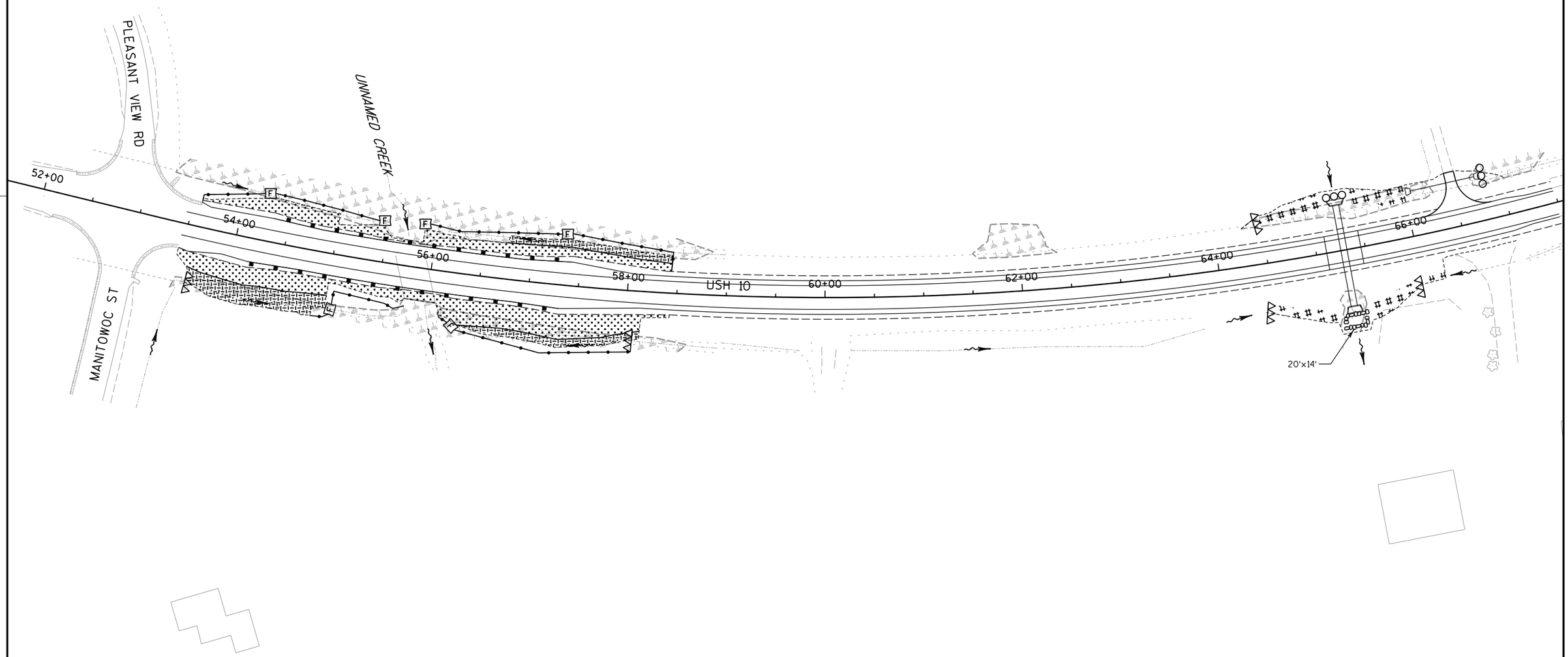
LEGEND

###### EROSION MAT CLASS I TYPE B	CULVERT PIPE CHECK
EROSION MAT CLASS II TYPE C	INLET PROTECTION TYPE C
EROSION MAT URBAN CLASS I TYPE B	RIPRAP MEDIUM
SILT FENCE	DELINEATED WETLAND BOUNDARY
SLOPE INTERCEPT	SURFACE WATER FLOW
F SILT FENCE RELIEF (ROCK BAGS)	
TEMPORARY DITCH CHECKS	

NOTE

DISTURBED AREAS NOT COVERED WITH EMAT SHALL BE COVERED WITH MULCH





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PROJECT NO: 1500-66-71	HWY: USH 10	COUNTY: MANITOWOC	EROSION CONTROL	SHEET 15	E

FILE NAME : P:\48xx\4816.DP.13.USH 10.MAN\CADDS\Plan\66 resurfacing\022001_ec.dgn PLOT DATE : 6/20/2017 PLOT BY : sgc PLOT NAME : PLOT SCALE : 1:100

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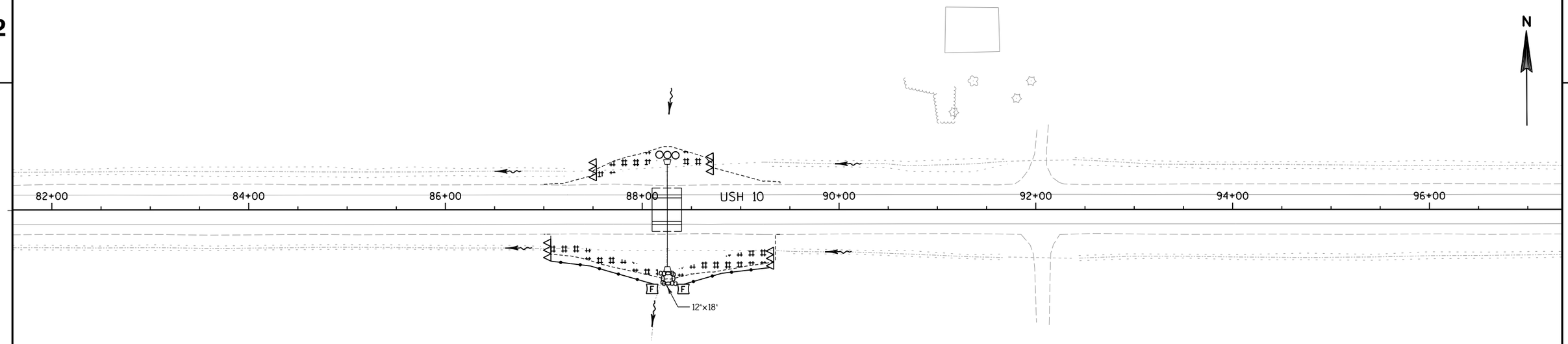
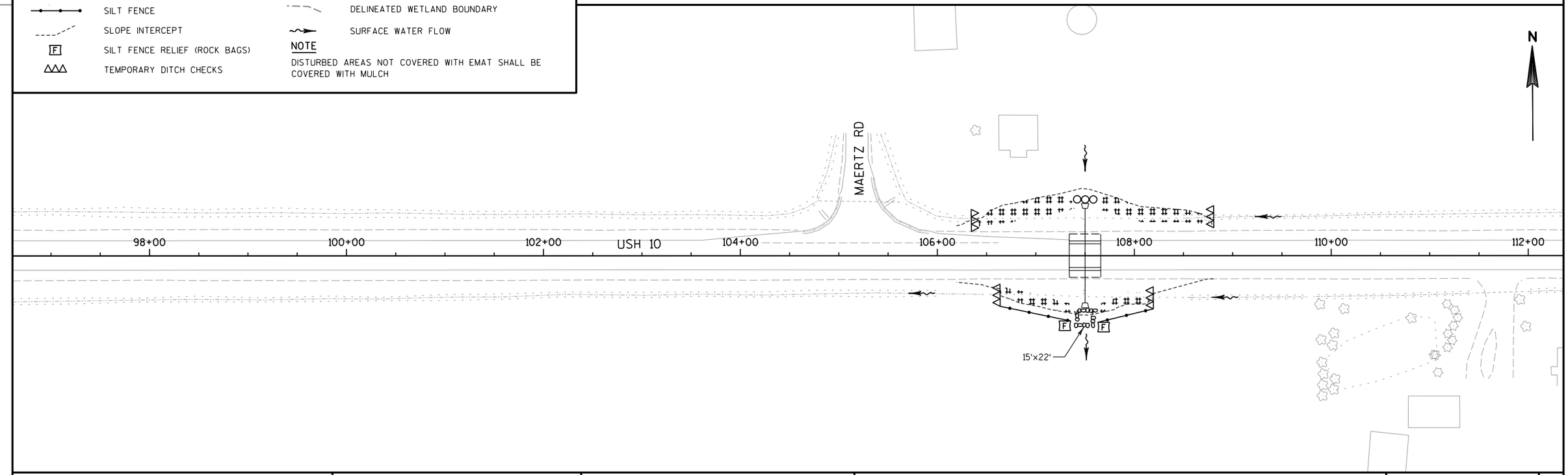


LEGEND

- EROSION MAT CLASS I TYPE B
- EROSION MAT CLASS II TYPE C
- EROSION MAT URBAN CLASS I TYPE B
- SILT FENCE
- SLOPE INTERCEPT
- [F] SILT FENCE RELIEF (ROCK BAGS)
- TEMPORARY DITCH CHECKS
- CULVERT PIPE CHECK
- INLET PROTECTION TYPE C
- RIPRAP MEDIUM
- DELINEATED WETLAND BOUNDARY
- SURFACE WATER FLOW

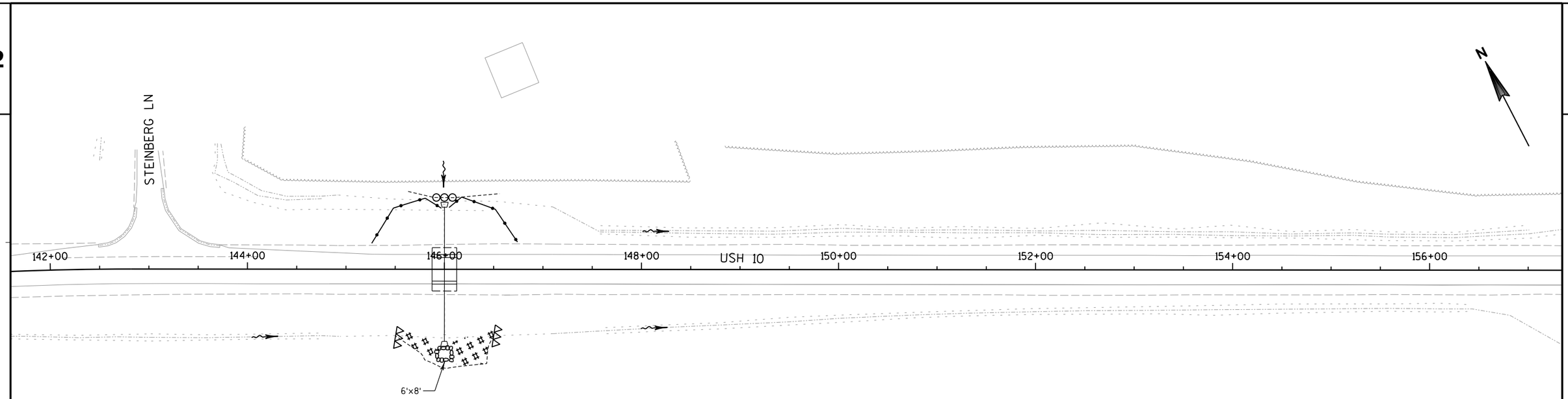
NOTE

DISTURBED AREAS NOT COVERED WITH EMAT SHALL BE COVERED WITH MULCH



PROJECT NO: 1500-66-71	HWY: USH 10	COUNTY: MANITOWOC	EROSION CONTROL	SHEET 16	E

2

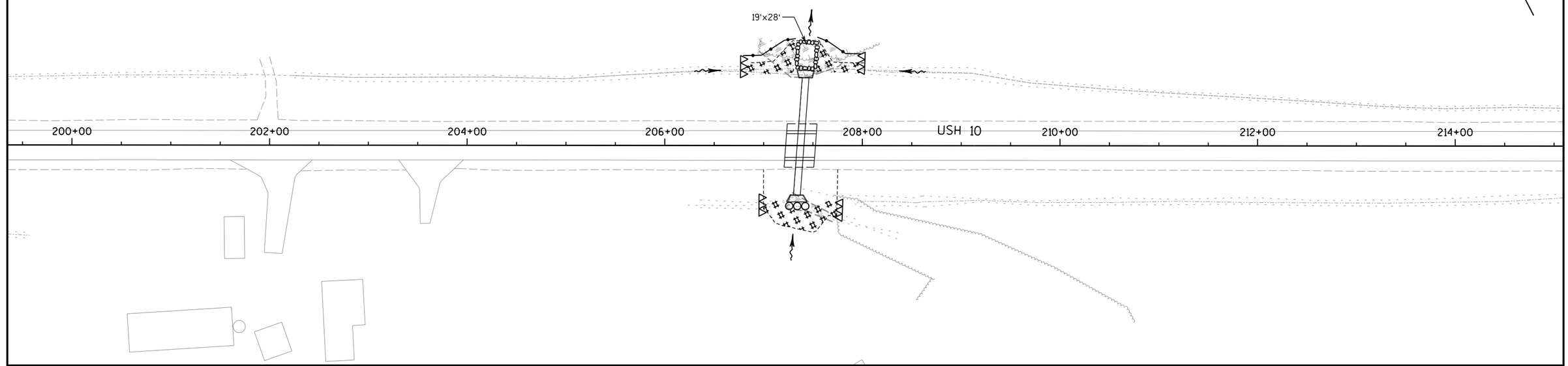


LEGEND

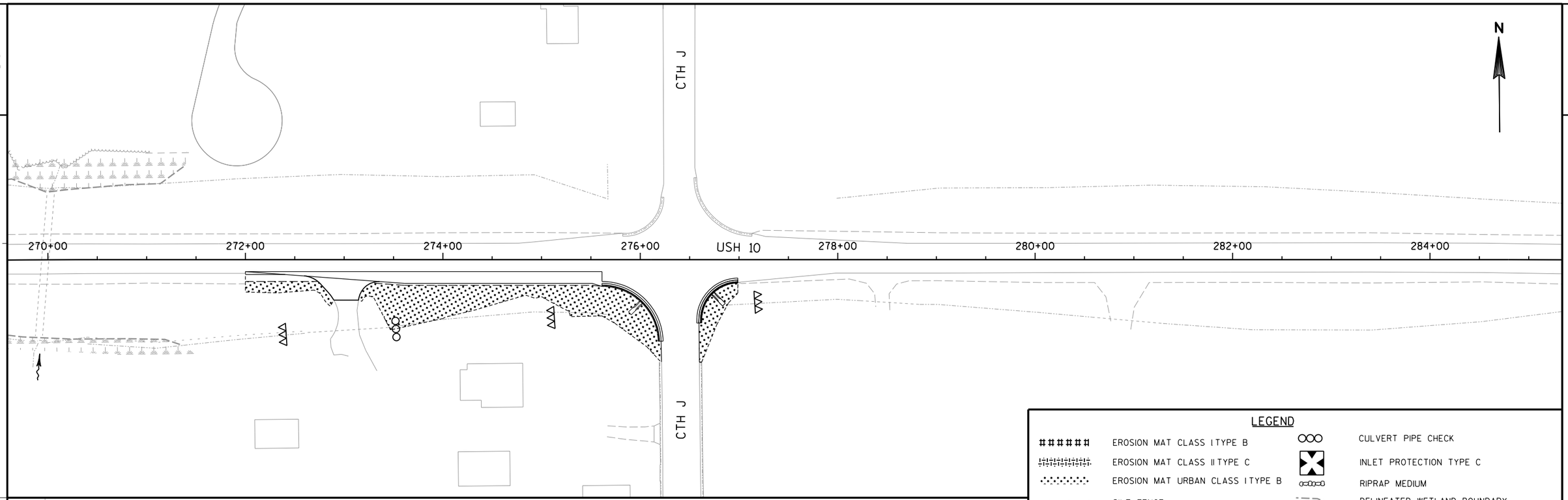
EROSION MAT CLASS I TYPE B	CULVERT PIPE CHECK
EROSION MAT CLASS II TYPE C	INLET PROTECTION TYPE C
EROSION MAT URBAN CLASS I TYPE B	RIPRAP MEDIUM
SILT FENCE	DELINEATED WETLAND BOUNDARY
SLOPE INTERCEPT	SURFACE WATER FLOW
F SILT FENCE RELIEF (ROCK BAGS)	
TEMPORARY DITCH CHECKS	

NOTE

DISTURBED AREAS NOT COVERED WITH EMAT SHALL BE COVERED WITH MULCH



PROJECT NO: 1500-66-71	HWY: USH 10	COUNTY: MANITOWOC	EROSION CONTROL	SHEET 17	E



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LEGEND

- EROSION MAT CLASS I TYPE B
- EROSION MAT CLASS II TYPE C
- EROSION MAT URBAN CLASS I TYPE B
- SILT FENCE
- SLOPE INTERCEPT
- F — SILT FENCE RELIEF (ROCK BAGS)
- TEMPORARY DITCH CHECKS
- CULVERT PIPE CHECK
- INLET PROTECTION TYPE C
- RIPRAP MEDIUM
- DELINEATED WETLAND BOUNDARY
- SURFACE WATER FLOW

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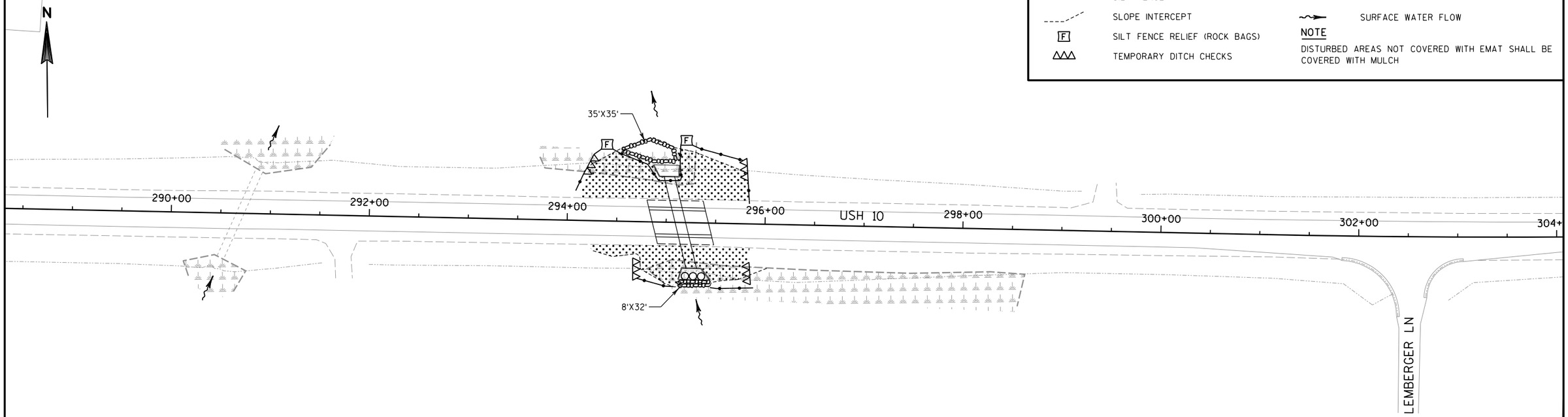
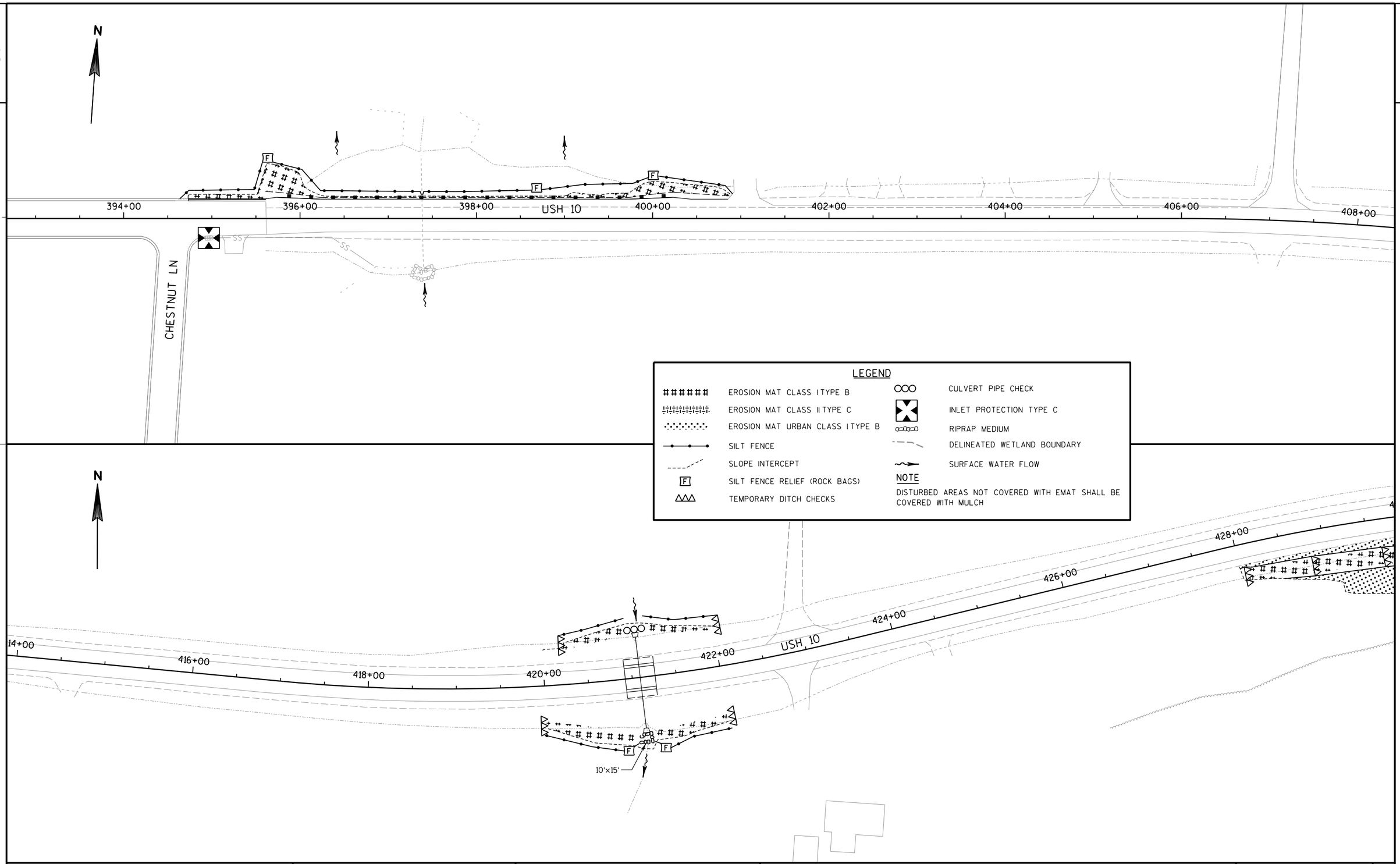


PROJECT NO: 1500-66-71	HWY: USH 10	COUNTY: MANITOWOC	EROSION CONTROL	SHEET 18	E



LEGEND

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- SLOPE INTERCEPT
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NOTE

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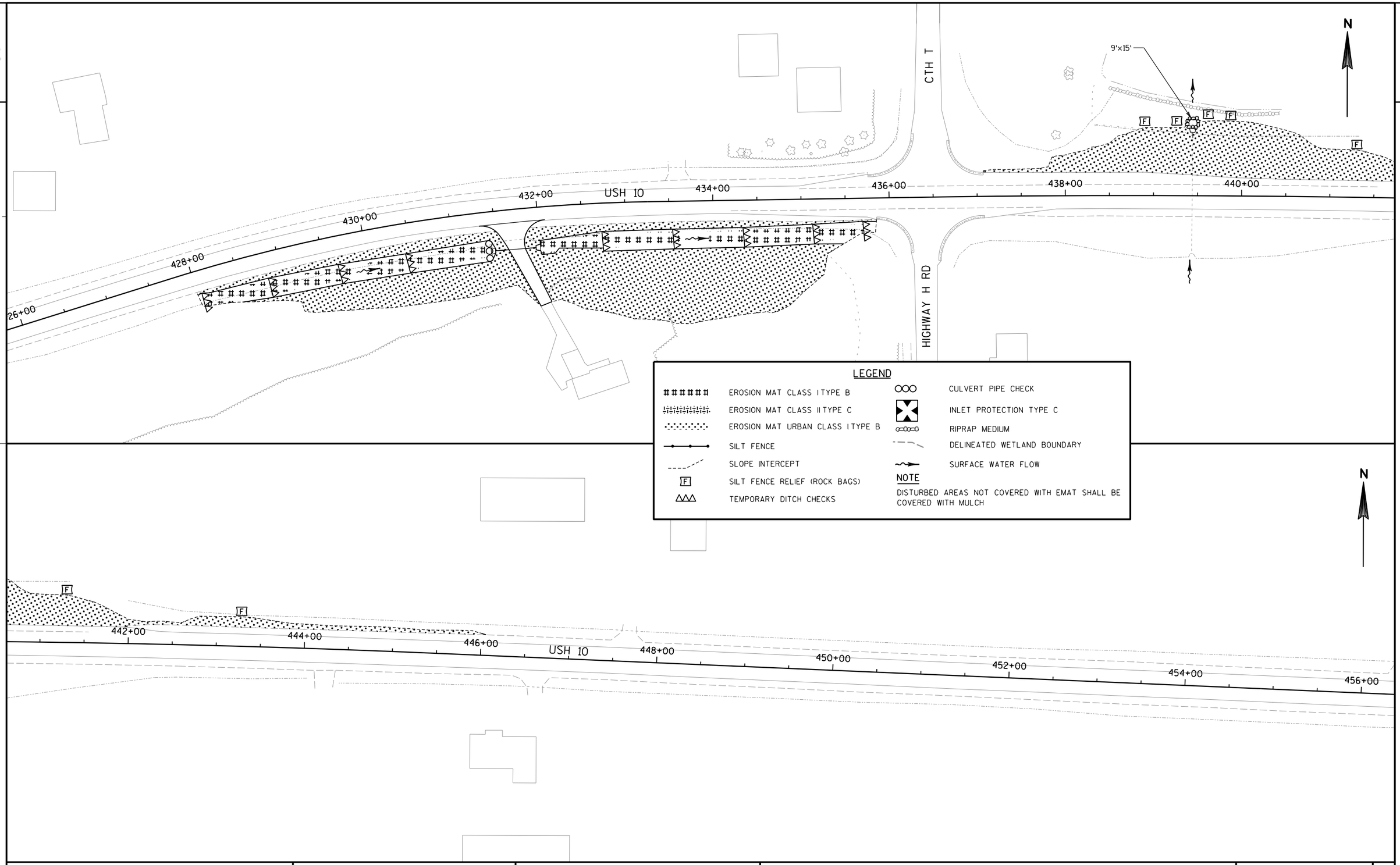
PROJECT NO: 1500-66-71	HWY: USH 10	COUNTY: MANITOWOC	EROSION CONTROL	SHEET 19	E

2



PROJECT NO: 1500-66-71	HWY: USH 10	COUNTY: MANITOWOC	EROSION CONTROL	SHEET 20	E

2

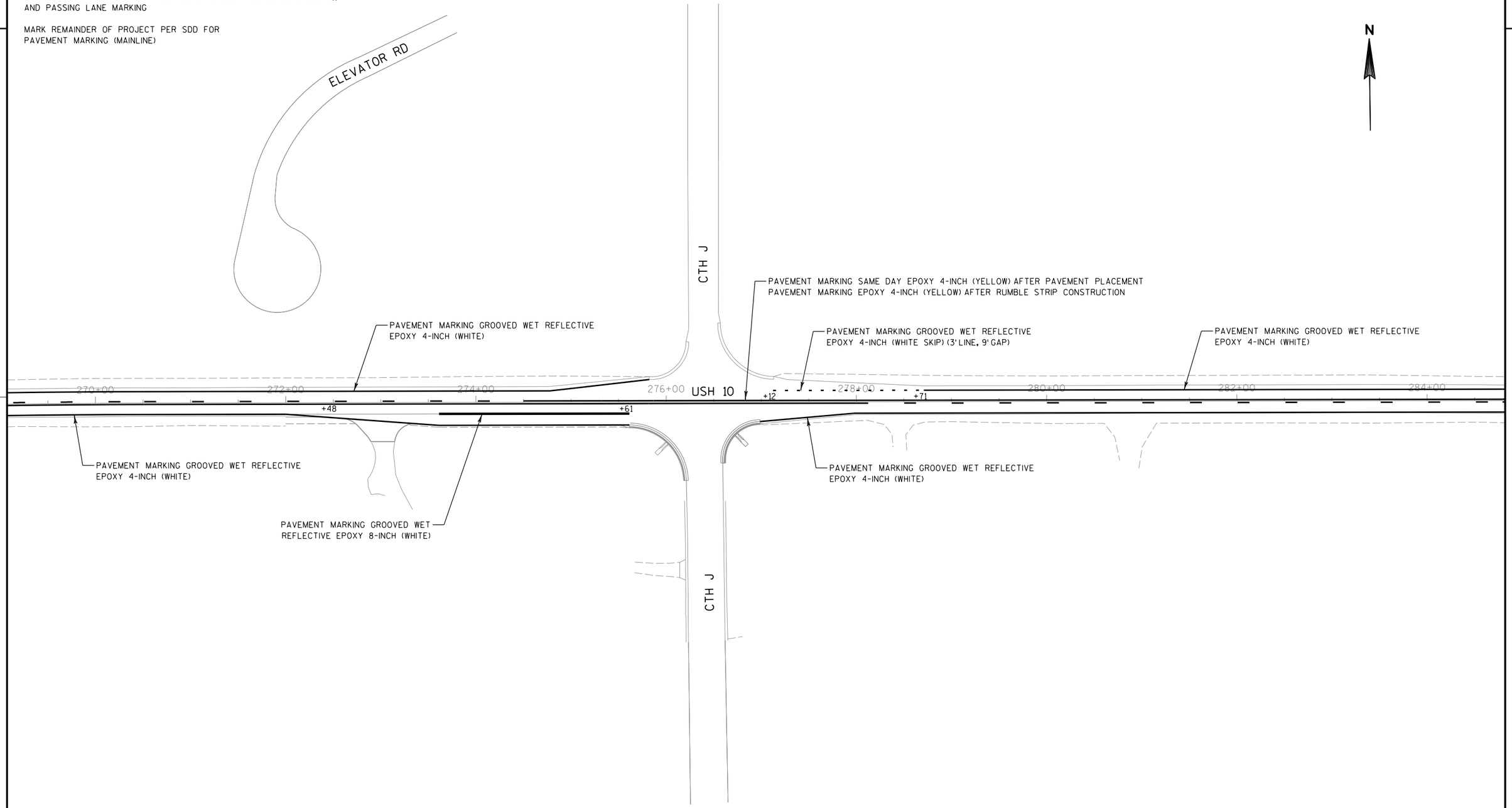
2

NOTES

NO PASSING ZONE PENNANTS AND PAVEMENT MARKING SHALL BE PLACED IN ACCORDANCE WITH THE "LOCATING NO-PASSING ZONE" ITEM

SEE STANDARD DETAILS FOR ADDITIONAL INFORMATION ON CENTERLINE,, AND PASSING LANE MARKING

MARK REMAINDER OF PROJECT PER SDD FOR PAVEMENT MARKING (MAINLINE)



PROJECT NO: 1500-66-71	HWY: USH 10	COUNTY: MANITOWOC	PAVEMENT MARKING - CTH J	SHEET 21	E

NOTES

NO PASSING ZONE PENNANTS AND PAVEMENT MARKING SHALL BE PLACED IN ACCORDANCE WITH THE "LOCATING NO-PASSING ZONE" ITEM

SEE STANDARD DETAILS FOR ADDITIONAL INFORMATION ON CENTERLINE,, AND PASSING LANE MARKING

MARK REMAINDER OF PROJECT PER SDD FOR PAVEMENT MARKING (MAINLINE)

N

CTH T

PAVEMENT MARKING SAME DAY EPOXY 4-INCH (YELLOW) AFTER PAVEMENT PLACEMENT
PAVEMENT MARKING EPOXY 4-INCH (YELLOW) AFTER RUMBLE STRIP CONSTRUCTION

PAVEMENT MARKING GROOVED WET REFLECTIVE EPOXY 4-INCH (WHITE)

PAVEMENT MARKING GROOVED WET REFLECTIVE EPOXY 8-INCH (WHITE)

PAVEMENT MARKING GROOVED WET REFLECTIVE EPOXY 4-INCH (WHITE)

430+00
432+00
434+00
436+00 USH 10
+07
438+00
+90
440+00
442+00
444+00
+20
+86

PAVEMENT MARKING GROOVED WET REFLECTIVE EPOXY 4-INCH (WHITE)

PAVEMENT MARKING GROOVED WET REFLECTIVE EPOXY 4-INCH (WHITE)

PAVEMENT MARKING GROOVED WET REFLECTIVE EPOXY 4-INCH (WHITE SKIP) (3'LINE, 9'GAP)

HIGHWAY H RD

PROJECT NO: 1500-66-71	HWY: USH 10	COUNTY: MANITOWOC	PAVEMENT MARKING - CTH T / HWY H RD INTERSECTION	SHEET 22	E

FILE NAME : P:\48xx\4816.DP.13.USH 10.MAN\CADDS\Plan\66 resurfacing\024502_pm.dgn PLOT DATE : 6/20/2017 PLOT BY : sgc PLOT NAME : PLOT SCALE : 1:100

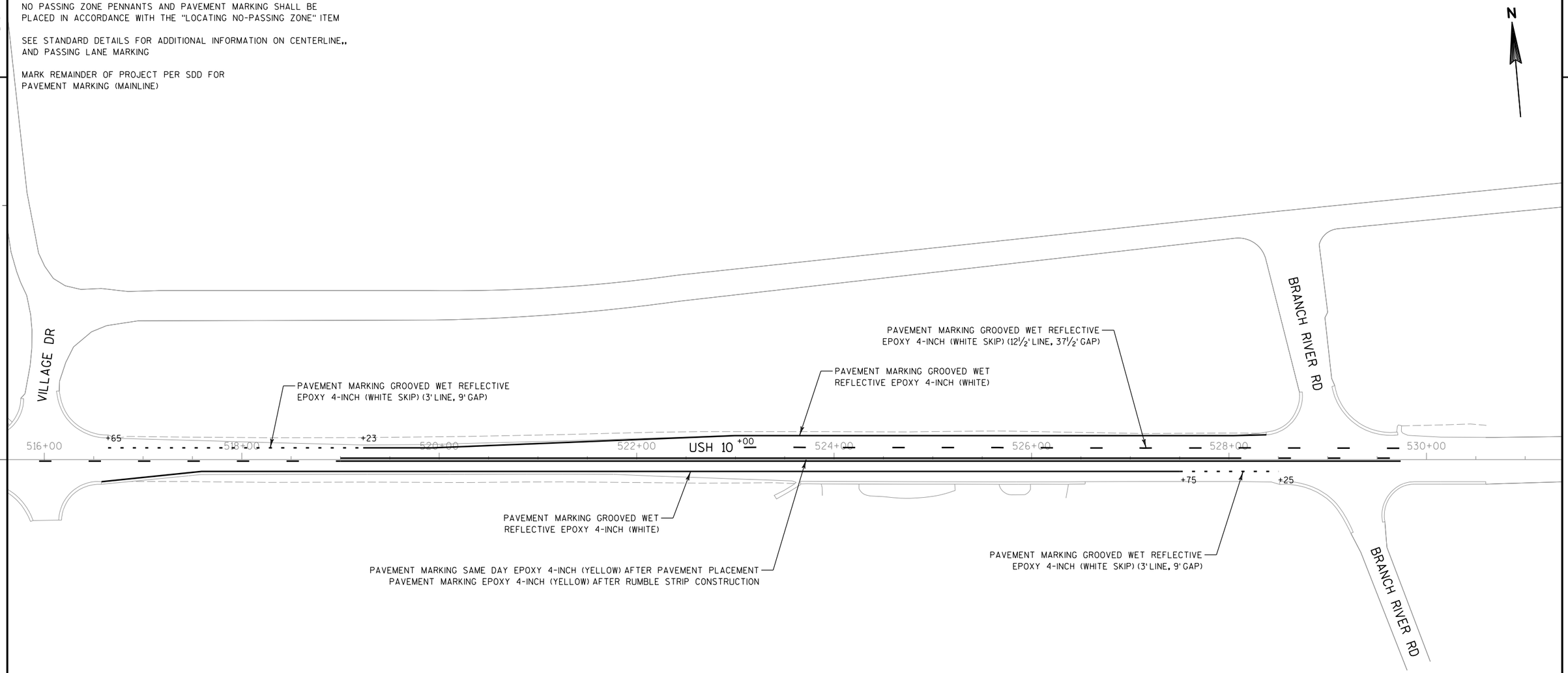
2

NOTES

NO PASSING ZONE PENNANTS AND PAVEMENT MARKING SHALL BE PLACED IN ACCORDANCE WITH THE "LOCATING NO-PASSING ZONE" ITEM

SEE STANDARD DETAILS FOR ADDITIONAL INFORMATION ON CENTERLINE,, AND PASSING LANE MARKING

MARK REMAINDER OF PROJECT PER SDD FOR PAVEMENT MARKING (MAINLINE)



PROJECT NO: 1500-66-71	HWY: USH 10	COUNTY: MANITOWOC	PAVEMENT MARKING - VILLAGE DR TO BRANCH RIVER RD	SHEET 23	E

FILE NAME : P:\48xx\4816.DP.13.USH 10.MAN\CADDS\Plan\66 resurfacing\024503_pm.dgn PLOT DATE : 6/20/2017 PLOT BY : sgc PLOT NAME : PLOT SCALE : 1:100

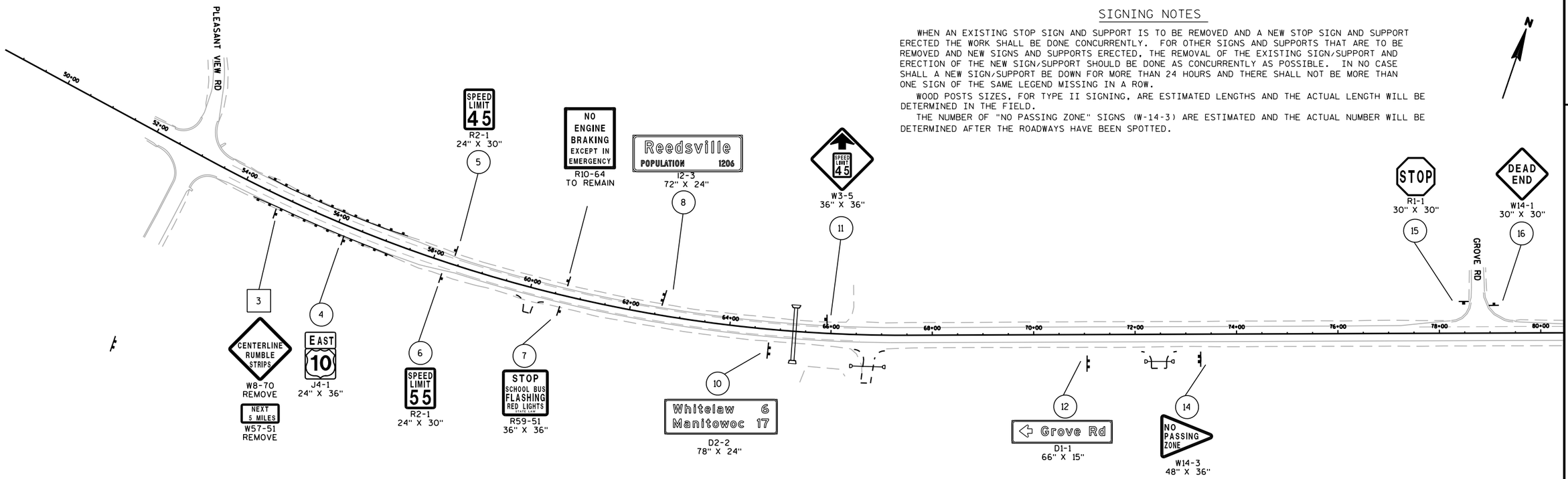
WISDOT/CADDS SHEET 42

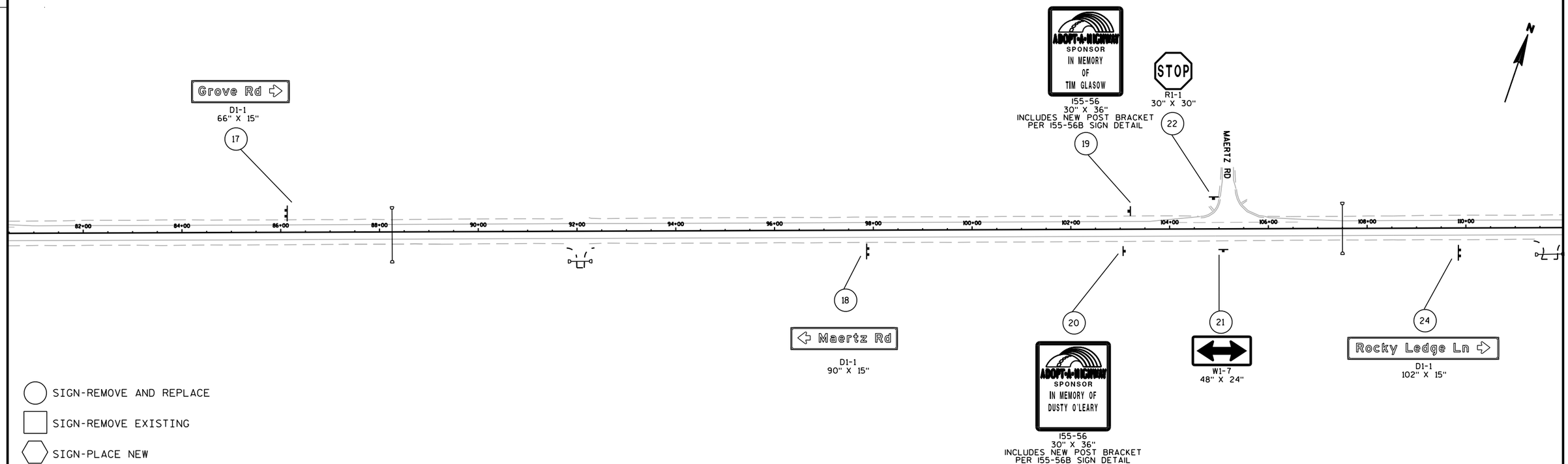
SIGNING NOTES

WHEN AN EXISTING STOP SIGN AND SUPPORT IS TO BE REMOVED AND A NEW STOP SIGN AND SUPPORT ERECTED THE WORK SHALL BE DONE CONCURRENTLY. FOR OTHER SIGNS AND SUPPORTS THAT ARE TO BE REMOVED AND NEW SIGNS AND SUPPORTS ERECTED, THE REMOVAL OF THE EXISTING SIGN/SUPPORT AND ERECTION OF THE NEW SIGN/SUPPORT SHOULD BE DONE AS CONCURRENTLY AS POSSIBLE. IN NO CASE SHALL A NEW SIGN/SUPPORT BE DOWN FOR MORE THAN 24 HOURS AND THERE SHALL NOT BE MORE THAN ONE SIGN OF THE SAME LEGEND MISSING IN A ROW.

WOOD POSTS SIZES, FOR TYPE II SIGNING, ARE ESTIMATED LENGTHS AND THE ACTUAL LENGTH WILL BE DETERMINED IN THE FIELD.

THE NUMBER OF "NO PASSING ZONE" SIGNS (W-14-3) ARE ESTIMATED AND THE ACTUAL NUMBER WILL BE DETERMINED AFTER THE ROADWAYS HAVE BEEN SPOTTED.





SIGN-REMOVE AND REPLACE

SIGN-REMOVE EXISTING

SIGN-PLACE NEW

PROJECT NO: 1500-66-71	HWY: USH 10	COUNTY: MANITOWOC	PERMANENT SIGNING	SHEET 24	E

FILE NAME : N:\spo\traffic\SIGNING\Projects\1500-33-71 1500-66-71 USH 10 Manitowoc Co\15006671_signplan.dgn PLOT DATE : 26-JUN-2017 15:09 PLOT BY : dotets PLOT NAME : PLOT SCALE : 200:1

WISDOT/CADDS SHEET 42

SIGNING NOTES

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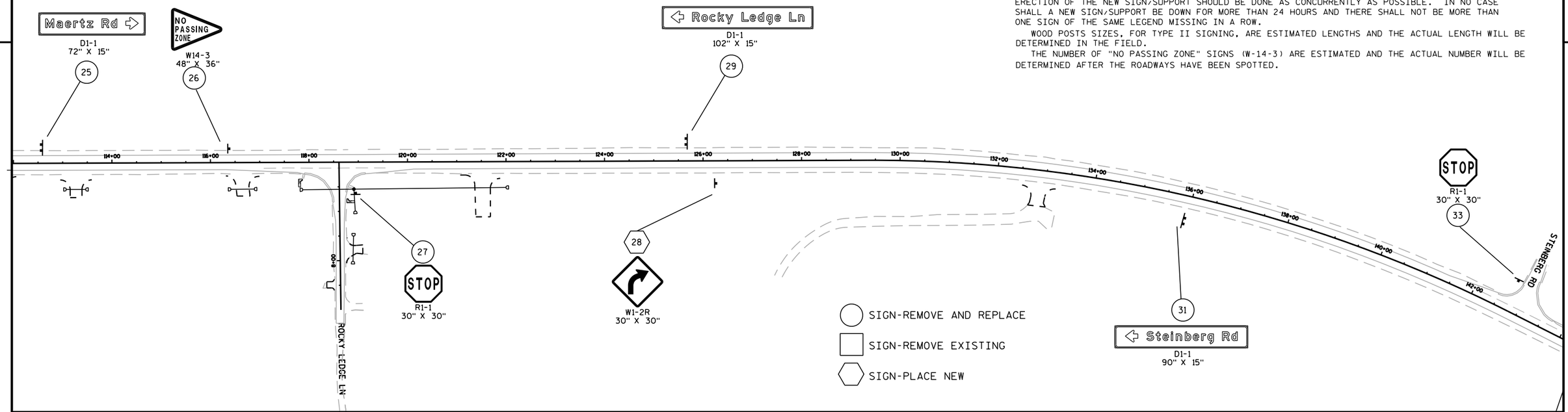

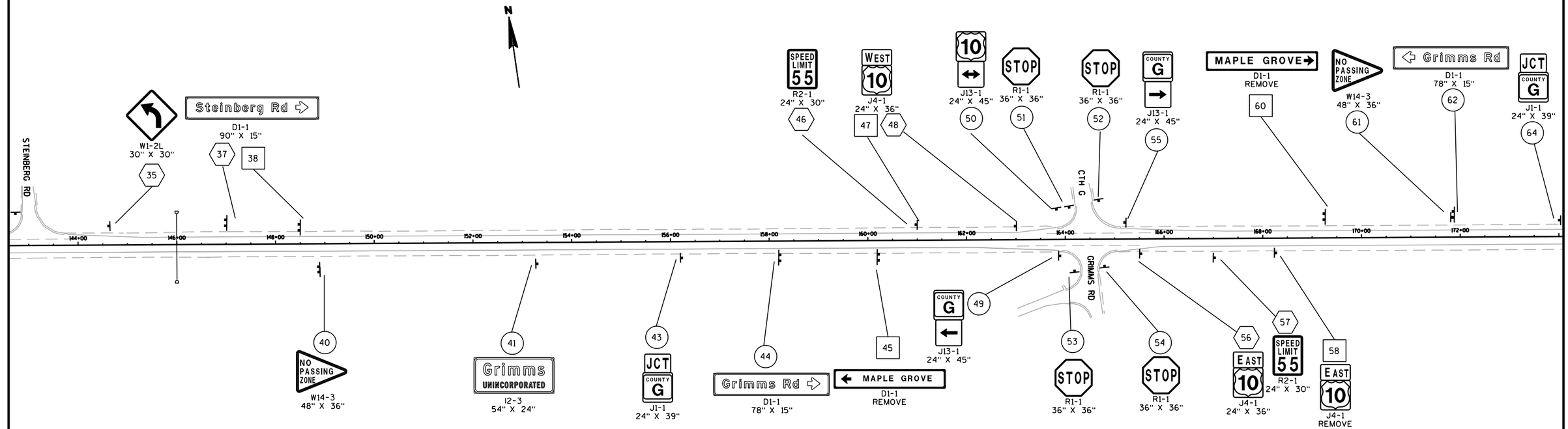

PROJECT NO: 1500-33-71	HWY: USH 10	COUNTY: MANITOWOC	PERMANENT SIGNING	SHEET	E

SIGNING NOTES

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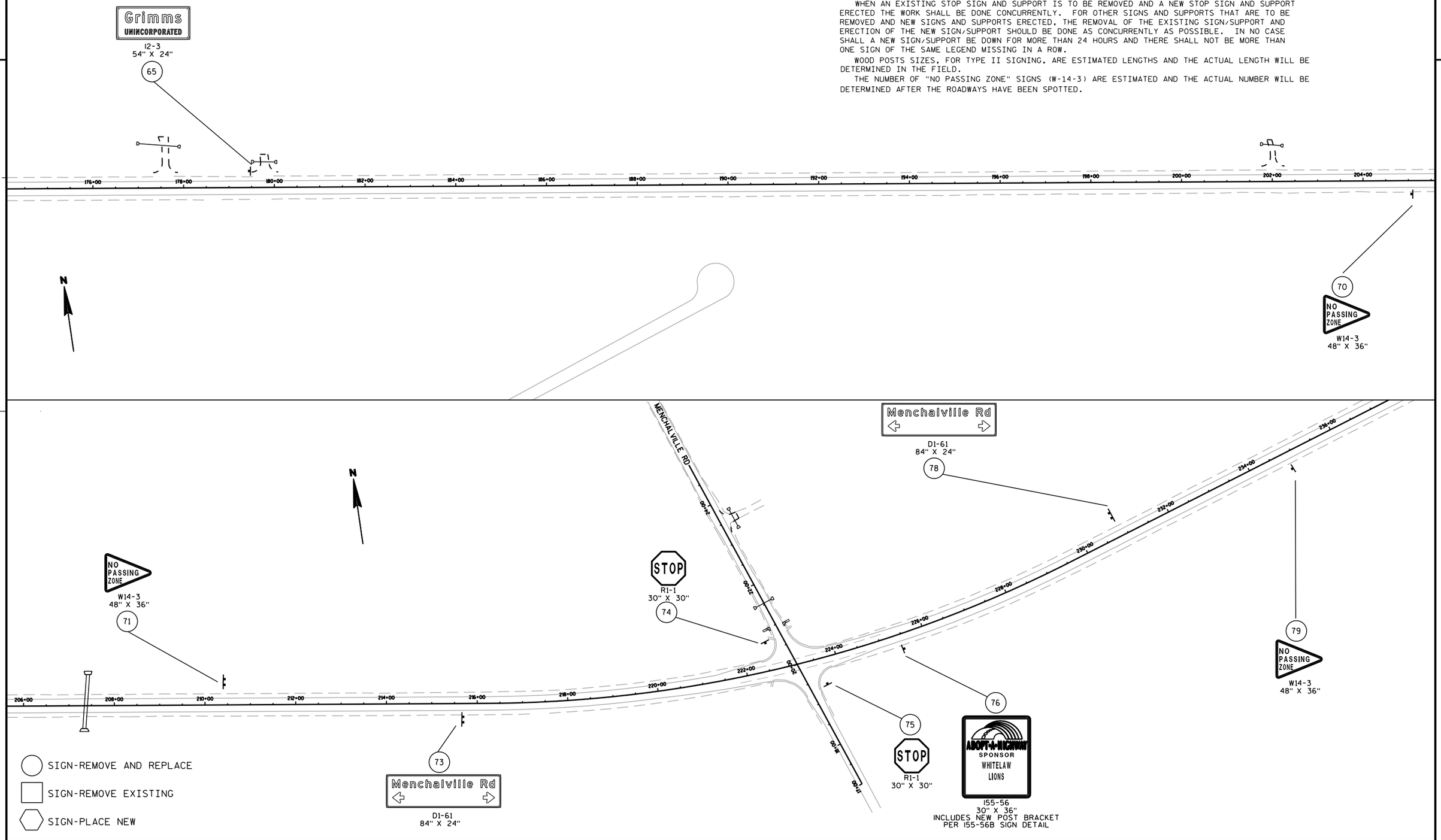

PROJECT NO: 1500-66-71	HWY: USH 10	COUNTY: MANITOWOC	PERMANENT SIGNING	SHEET E

FILE NAME : N:\spo\traffic\SIGNING\Projects\1500-33-71 1500-66-71 USH 10 Manitowoc Co\15006671_signplan.dgn PLOT DATE : 26-JUN-2017 15:09 PLOT BY : dotets PLOT NAME : PLOT SCALE : 200:1 WISDOT/CADDS

SIGN-REMOVE AND REPLACE

SIGN-REMOVE EXISTING

SIGN-PLACE NEW

FRITSCH LN

STOP
R1-1
30" X 30"
80

Reedsville 4
Brillion 9
Appleton 32
D2-3
78" X 36"
82

STOP
R1-1
30" X 30"
86

LAMBRECHT LN

NO PASSING ZONE
W14-3
48" X 36"
88

BRODTKE RD

87
STOP
R1-1
30" X 30"

85
Cato
UNINCORPORATED
I2-3
54" X 24"

83
Brodtke Rd
D1-1
78" X 15"

NO ENGINE BRAKING EXCEPT IN EMERGENCY
R10-64
TO REMAIN

SIGNING NOTES

WHEN AN EXISTING STOP SIGN AND SUPPORT IS TO BE REMOVED AND A NEW STOP SIGN AND SUPPORT ERECTED THE WORK SHALL BE DONE CONCURRENTLY. FOR OTHER SIGNS AND SUPPORTS THAT ARE TO BE REMOVED AND NEW SIGNS AND SUPPORTS ERECTED, THE REMOVAL OF THE EXISTING SIGN/SUPPORT AND ERECTION OF THE NEW SIGN/SUPPORT SHOULD BE DONE AS CONCURRENTLY AS POSSIBLE. IN NO CASE SHALL A NEW SIGN/SUPPORT BE DOWN FOR MORE THAN 24 HOURS AND THERE SHALL NOT BE MORE THAN ONE SIGN OF THE SAME LEGEND MISSING IN A ROW.

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THE NUMBER OF "NO PASSING ZONE" SIGNS (W-14-3) ARE ESTIMATED AND THE ACTUAL NUMBER WILL BE DETERMINED AFTER THE ROADWAYS HAVE BEEN SPOTTED.

STOP
R1-1
30" X 30"
90

WEST 10
J4-1
REMOVE
92

Brodtke Rd
D1-1
78" X 15"
94
95

SPEED LIMIT 55
R2-1
24" X 30"
96

WEST 10
J4-1
24" X 36"
97

10
J13-1
24" X 45"
99

STOP
R1-1
36" X 36"
100

CTH J

COUNTY J
J13-1
24" X 45"
103

Clarks Mills Valders
D1-2
84" X 24"
105

NO ENGINE BRAKING EXCEPT IN EMERGENCY
R10-64
MOVE TO STATION 288+00
108

W2-1
30" X 30"
110

45 M.P.H.
W13-1
18" X 18"
110A

JCT COUNTY J
J1-1
24" X 39"
111

NO ENGINE BRAKING EXCEPT IN EMERGENCY
R10-64
MOVED FROM STATION 282+50
INSTALL NEW POST

Cato
UNINCORPORATED
I2-3
54" X 24"
113

JCT COUNTY J
J1-1
24" X 39"
89

S3-1
36" X 36"
91

Clarks Mills Valders
D1-2
84" X 24"
93

COUNTY J
J13-1
24" X 45"
98

STOP
R1-1
36" X 36"
101

10
J13-1
24" X 45"
102

EAST 10
J4-1
24" X 36"
104

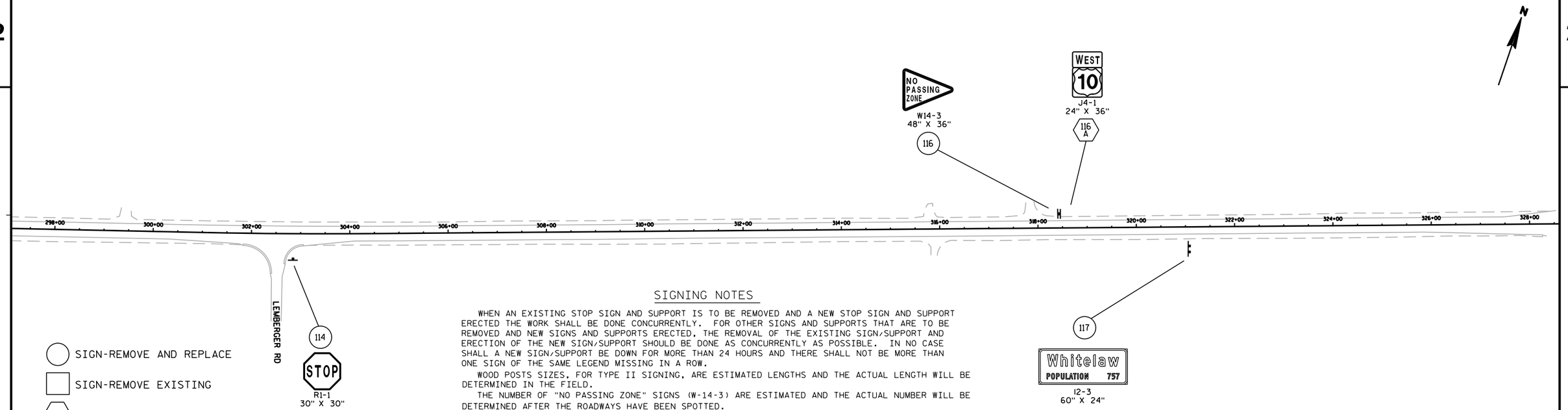
SPEED LIMIT 55
R2-1
24" X 30"
106

Whitelaw 2
Manitowoc 13
D2-2
78" X 24"
109

NO PASSING ZONE
W14-3
48" X 36"
112

PROJECT NO: 1500-66-71	HWY: USH 10	COUNTY: MANITOWOC	PERMANENT SIGNING	SHEET E

2



SIGNING NOTES

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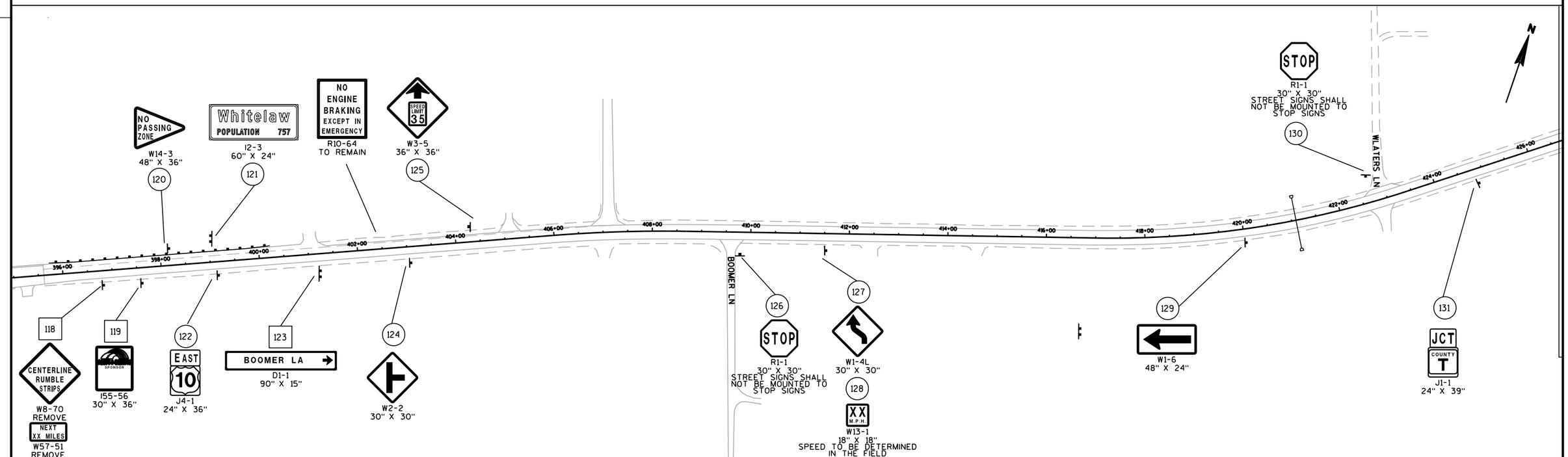
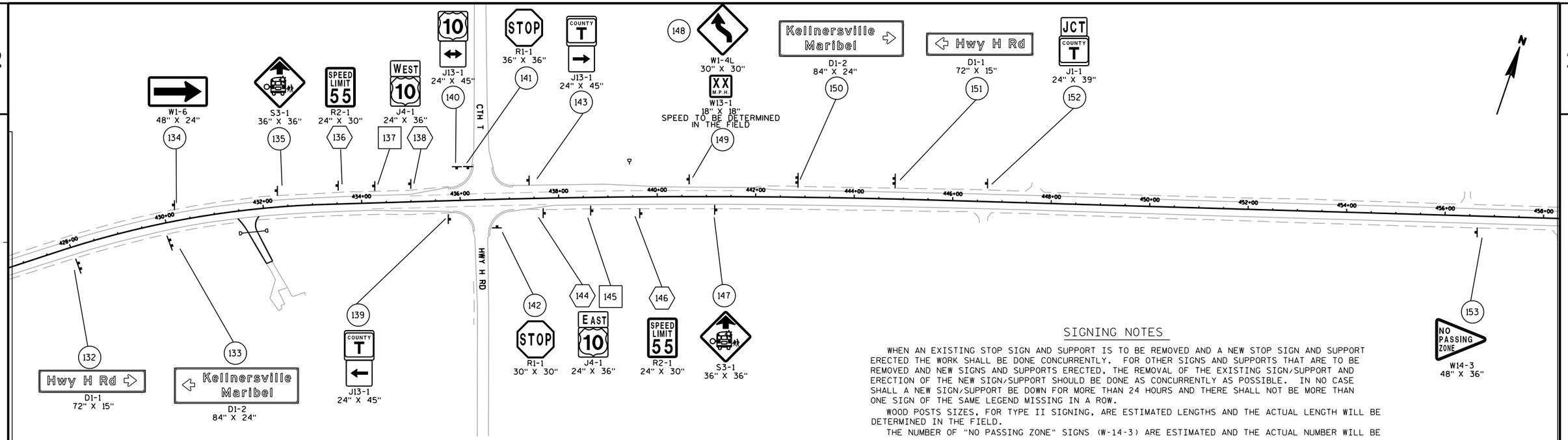


PROJECT NO: 1500-66-71	HWY: USH 10	COUNTY: MANITOWOC	PERMANENT SIGNING	SHEET	E



SIGNING NOTES

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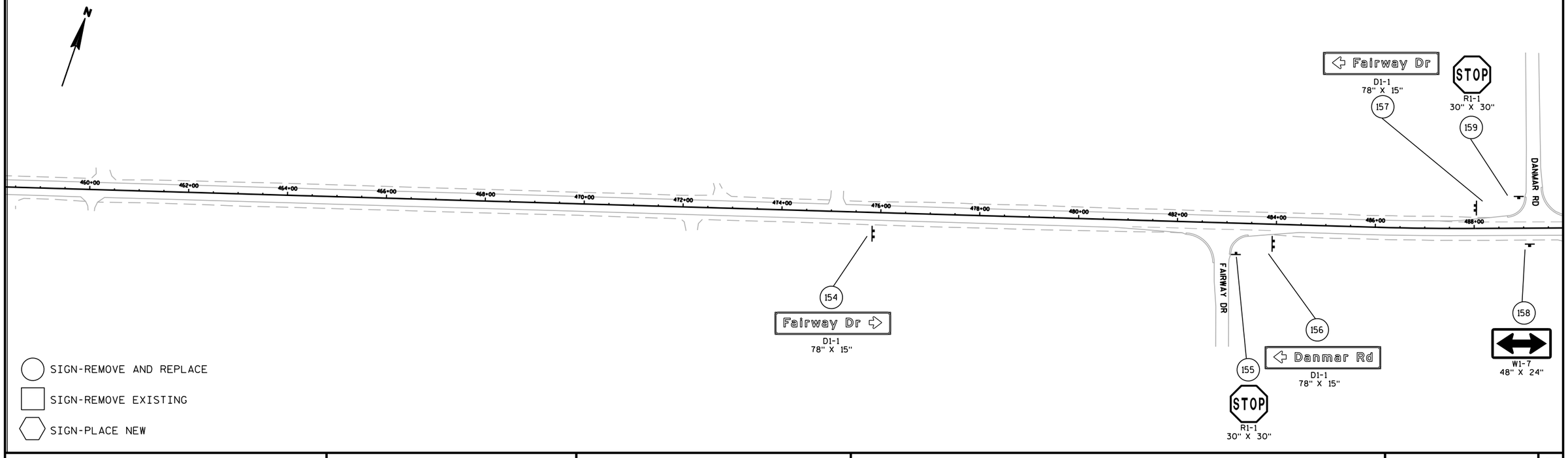
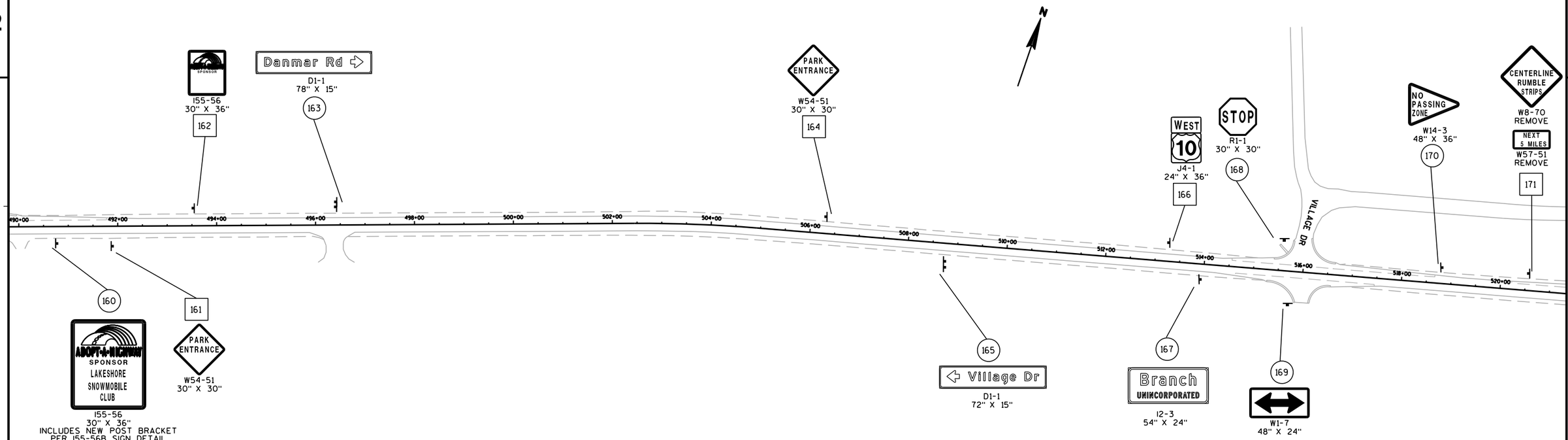
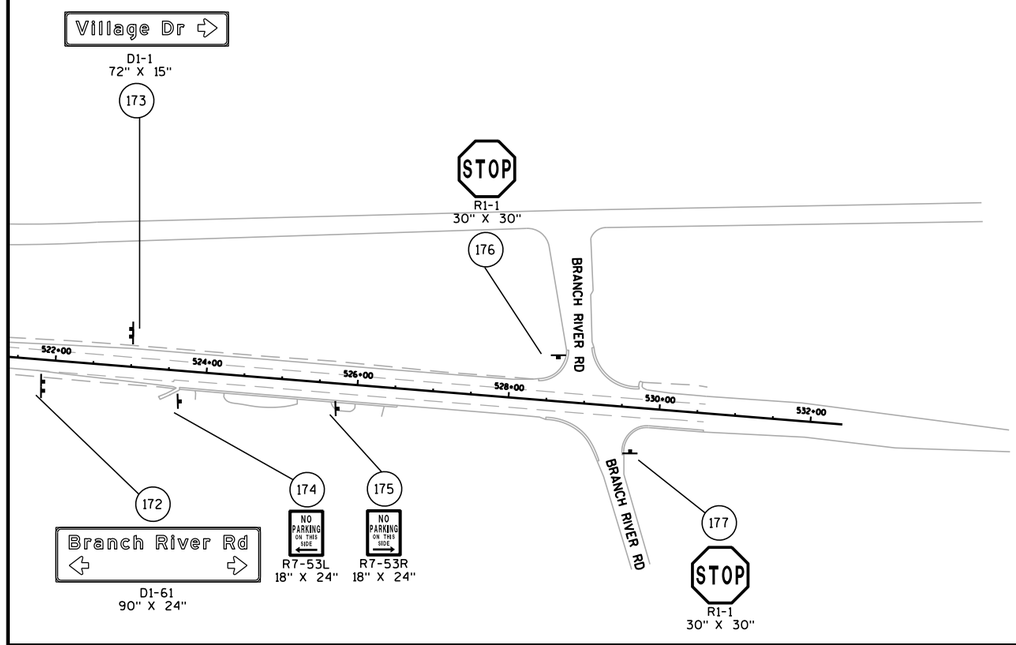


PROJECT NO: 1500-66-71	HWY: USH 10	COUNTY: MANITOWOC	PERMANENT SIGNING	SHEET E

FILE NAME : N:\spo\traffic\SIGNING\Projects\1500-33-71 1500-66-71 USH 10 Manitowoc Co\15006671_signplan.dgn PLOT DATE : 26-JUN-2017 15:09 PLOT BY : dotets PLOT NAME : PLOT SCALE : 200:1





SIGNING NOTES

WHEN AN EXISTING STOP SIGN AND SUPPORT IS TO BE REMOVED AND A NEW STOP SIGN AND SUPPORT ERECTED THE WORK SHALL BE DONE CONCURRENTLY. FOR OTHER SIGNS AND SUPPORTS THAT ARE TO BE REMOVED AND NEW SIGNS AND SUPPORTS ERECTED, THE REMOVAL OF THE EXISTING SIGN/SUPPORT AND ERECTION OF THE NEW SIGN/SUPPORT SHOULD BE DONE AS CONCURRENTLY AS POSSIBLE. IN NO CASE SHALL A NEW SIGN/SUPPORT BE DOWN FOR MORE THAN 24 HOURS AND THERE SHALL NOT BE MORE THAN ONE SIGN OF THE SAME LEGEND MISSING IN A ROW.

WOOD POSTS SIZES, FOR TYPE II SIGNING, ARE ESTIMATED LENGTHS AND THE ACTUAL LENGTH WILL BE DETERMINED IN THE FIELD.

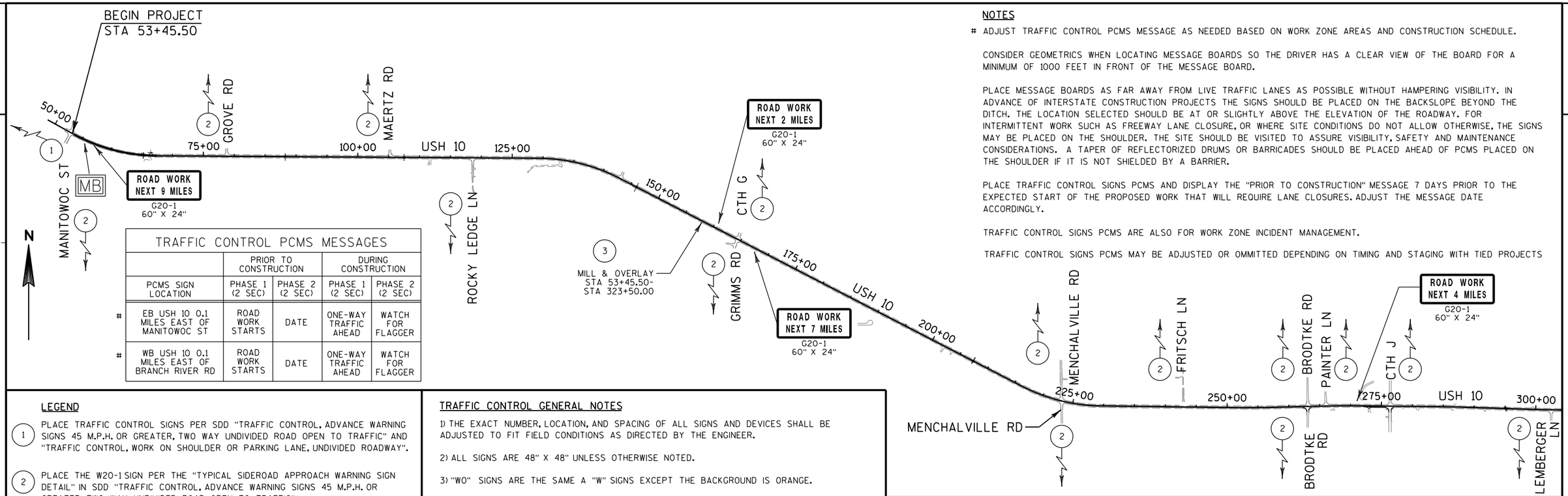
THE NUMBER OF "NO PASSING ZONE" SIGNS (W-14-3) ARE ESTIMATED AND THE ACTUAL NUMBER WILL BE DETERMINED AFTER THE ROADWAYS HAVE BEEN SPOTTED.

SIGN-REMOVE AND REPLACE

SIGN-REMOVE EXISTING

SIGN-PLACE NEW

PROJECT NO: 1500-66-71	HWY: USH 10	COUNTY: MANITOWOC	PERMANENT SIGNING	SHEET 30	E



TRAFFIC CONTROL PCMS MESSAGES				
	PRIOR TO CONSTRUCTION		DURING CONSTRUCTION	
PCMS SIGN LOCATION	PHASE 1 (2 SEC)	PHASE 2 (2 SEC)	PHASE 1 (2 SEC)	PHASE 2 (2 SEC)
# EB USH 10 0.1 MILES EAST OF MANITOWOC ST	ROAD WORK STARTS	DATE	ONE-WAY TRAFFIC AHEAD	WATCH FOR FLAGGER
# WB USH 10 0.1 MILES EAST OF BRANCH RIVER RD	ROAD WORK STARTS	DATE	ONE-WAY TRAFFIC AHEAD	WATCH FOR FLAGGER

NOTES

ADJUST TRAFFIC CONTROL PCMS MESSAGE AS NEEDED BASED ON WORK ZONE AREAS AND CONSTRUCTION SCHEDULE.

CONSIDER GEOMETRICS WHEN LOCATING MESSAGE BOARDS SO THE DRIVER HAS A CLEAR VIEW OF THE BOARD FOR A MINIMUM OF 1000 FEET IN FRONT OF THE MESSAGE BOARD.

PLACE MESSAGE BOARDS AS FAR AWAY FROM LIVE TRAFFIC LANES AS POSSIBLE WITHOUT HAMPERING VISIBILITY. IN ADVANCE OF INTERSTATE CONSTRUCTION PROJECTS THE SIGNS SHOULD BE PLACED ON THE BACKSLOPE BEYOND THE DITCH. THE LOCATION SELECTED SHOULD BE AT OR SLIGHTLY ABOVE THE ELEVATION OF THE ROADWAY. FOR INTERMITTENT WORK SUCH AS FREEWAY LANE CLOSURE, OR WHERE SITE CONDITIONS DO NOT ALLOW OTHERWISE, THE SIGNS MAY BE PLACED ON THE SHOULDER. THE SITE SHOULD BE VISITED TO ASSURE VISIBILITY, SAFETY AND MAINTENANCE CONSIDERATIONS. A TAPER OF REFLECTORIZED DRUMS OR BARRICADES SHOULD BE PLACED AHEAD OF PCMS PLACED ON THE SHOULDER IF IT IS NOT SHIELDED BY A BARRIER.

PLACE TRAFFIC CONTROL SIGNS PCMS AND DISPLAY THE "PRIOR TO CONSTRUCTION" MESSAGE 7 DAYS PRIOR TO THE EXPECTED START OF THE PROPOSED WORK THAT WILL REQUIRE LANE CLOSURES. ADJUST THE MESSAGE DATE ACCORDINGLY.

TRAFFIC CONTROL SIGNS PCMS ARE ALSO FOR WORK ZONE INCIDENT MANAGEMENT.

TRAFFIC CONTROL SIGNS PCMS MAY BE ADJUSTED OR OMMITTED DEPENDING ON TIMING AND STAGING WITH TIED PROJECTS

LEGEND

(1) PLACE TRAFFIC CONTROL SIGNS PER SDD "TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 M.P.H. OR GREATER, TWO WAY UNDIVIDED ROAD OPEN TO TRAFFIC" AND "TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY".

(2) PLACE THE W20-1 SIGN PER THE "TYPICAL SIDEROAD APPROACH WARNING SIGN DETAIL" IN SDD "TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 M.P.H. OR GREATER, TWO WAY UNDIVIDED ROAD OPEN TO TRAFFIC".

(3) PLACE TRAFFIC CONTROL SIGNS PER SDD "TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION" TO MAINTAIN TRAFFIC DURING MILL & OVERLAY OPERATIONS

MB TRAFFIC CONTROL SIGNS PCMS

TRAFFIC CONTROL GENERAL NOTES

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

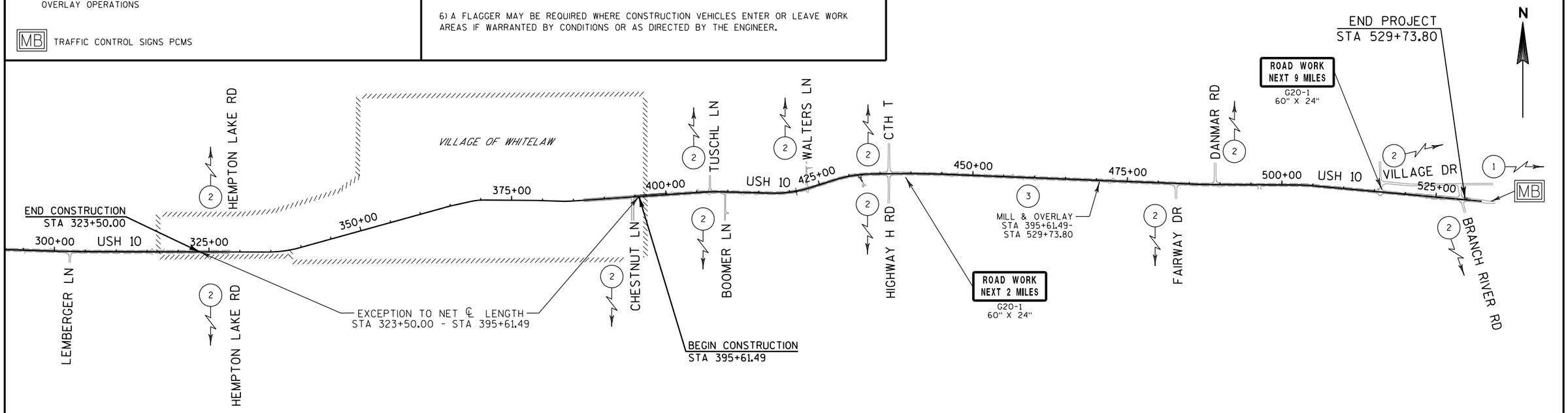
2) ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.

3) "WO" SIGNS ARE THE SAME A "W" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

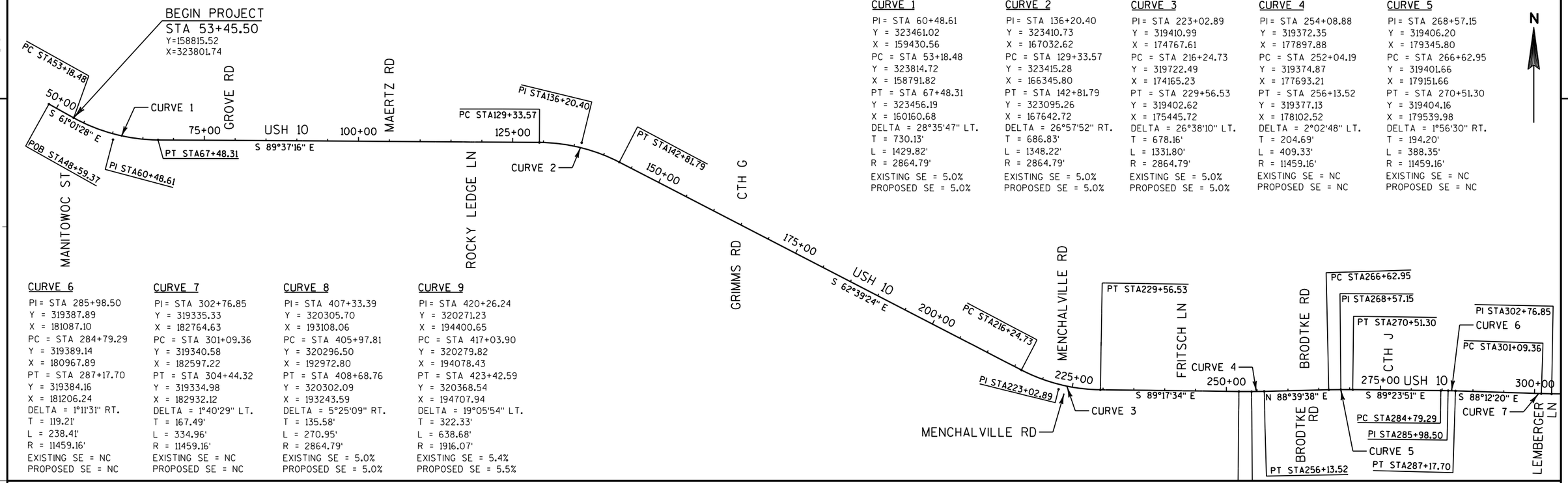
4) ALL TYPE III BARRICADES SHALL BE 8' WIDE, UNLESS OTHERWISE NOTED. EQUIP WITH TYPE "A" (LOW INTENSITY FLASHING) LIGHTS PER SDDS.

5) MAINTAIN ALL EXISTING STOP SIGNS AT ALL TIMES.

6) A FLAGGER MAY BE REQUIRED WHERE CONSTRUCTION VEHICLES ENTER OR LEAVE WORK AREAS IF WARRANTED BY CONDITIONS OR AS DIRECTED BY THE ENGINEER.



PROJECT NO: 1500-66-71	HWY: USH 10	COUNTY: MANITOWOC	TRAFFIC CONTROL OVERVIEW	SHEET 31	E



CURVE 1
PI = STA 60+48.61
Y = 323461.02
X = 159430.56
PC = STA 53+18.48
Y = 323814.72
X = 158791.82
PT = STA 67+48.31
Y = 323456.19
X = 160160.68
DELTA = 28°35'47" LT.
T = 730.13'
L = 1429.82'
R = 2864.79'
EXISTING SE = 5.0%
PROPOSED SE = 5.0%

CURVE 2
PI = STA 136+20.40
Y = 323410.73
X = 167032.62
PC = STA 129+33.57
Y = 323415.28
X = 166345.80
PT = STA 142+81.79
Y = 323095.26
X = 167642.72
DELTA = 26°57'52" RT.
T = 686.83'
L = 1348.22'
R = 2864.79'
EXISTING SE = 5.0%
PROPOSED SE = 5.0%

CURVE 3
PI = STA 223+02.89
Y = 319410.99
X = 174767.61
PC = STA 216+24.73
Y = 319722.49
X = 174165.23
PT = STA 229+56.53
Y = 319402.62
X = 175445.72
DELTA = 26°38'10" LT.
T = 678.16'
L = 1331.80'
R = 2864.79'
EXISTING SE = 5.0%
PROPOSED SE = 5.0%

CURVE 4
PI = STA 254+08.88
Y = 319372.35
X = 177897.88
PC = STA 252+04.19
Y = 319374.87
X = 177693.21
PT = STA 256+13.52
Y = 319377.13
X = 178102.52
DELTA = 2°02'48" LT.
T = 204.69'
L = 409.33'
R = 11459.16'
EXISTING SE = NC
PROPOSED SE = NC

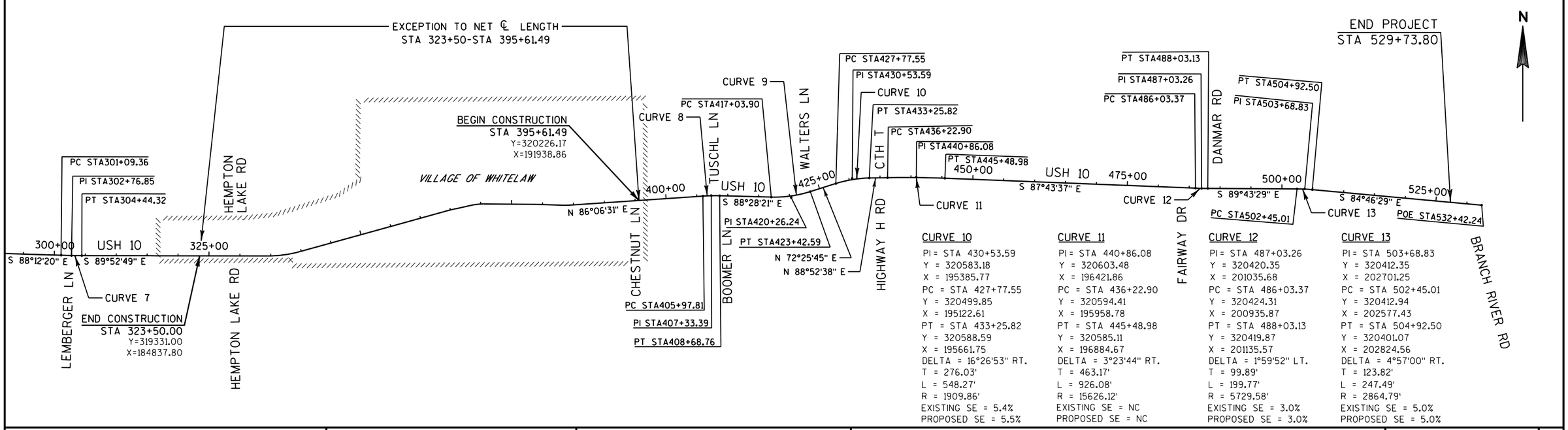
CURVE 5
PI = STA 268+57.15
Y = 319406.20
X = 179345.80
PC = STA 266+62.95
Y = 319401.66
X = 179151.66
PT = STA 270+51.30
Y = 319404.16
X = 179539.98
DELTA = 1°56'30" RT.
T = 194.20'
L = 388.35'
R = 11459.16'
EXISTING SE = NC
PROPOSED SE = NC

CURVE 6
PI = STA 285+98.50
Y = 319387.89
X = 181087.10
PC = STA 284+79.29
Y = 319389.14
X = 180967.89
PT = STA 287+17.70
Y = 319384.16
X = 181206.24
DELTA = 1°11'31" RT.
T = 119.21'
L = 238.41'
R = 11459.16'
EXISTING SE = NC
PROPOSED SE = NC

CURVE 7
PI = STA 302+76.85
Y = 319335.33
X = 182764.63
PC = STA 301+09.36
Y = 319340.58
X = 182597.22
PT = STA 304+44.32
Y = 319334.98
X = 182932.12
DELTA = 1°40'29" LT.
T = 167.49'
L = 334.96'
R = 11459.16'
EXISTING SE = NC
PROPOSED SE = NC

CURVE 8
PI = STA 407+33.39
Y = 320305.70
X = 193108.06
PC = STA 405+97.81
Y = 320296.50
X = 192972.80
PT = STA 408+68.76
Y = 320302.09
X = 193243.59
DELTA = 5°25'09" RT.
T = 135.58'
L = 270.95'
R = 2864.79'
EXISTING SE = 5.0%
PROPOSED SE = 5.0%

CURVE 9
PI = STA 420+26.24
Y = 320271.23
X = 194400.65
PC = STA 417+03.90
Y = 320279.82
X = 194078.43
PT = STA 423+42.59
Y = 320368.54
X = 194707.94
DELTA = 19°05'54" LT.
T = 322.33'
L = 638.68'
R = 1916.07'
EXISTING SE = 5.4%
PROPOSED SE = 5.5%



CURVE 10
PI = STA 430+53.59
Y = 320583.18
X = 195385.77
PC = STA 427+77.55
Y = 320499.85
X = 195122.61
PT = STA 433+25.82
Y = 320588.59
X = 195661.75
DELTA = 16°26'53" RT.
T = 276.03'
L = 548.27'
R = 1909.86'
EXISTING SE = 5.4%
PROPOSED SE = 5.5%

CURVE 11
PI = STA 440+86.08
Y = 320603.48
X = 196421.86
PC = STA 436+22.90
Y = 320594.41
X = 195958.78
PT = STA 445+48.98
Y = 320585.11
X = 196884.67
DELTA = 3°23'44" RT.
T = 463.17'
L = 926.08'
R = 15626.12'
EXISTING SE = NC
PROPOSED SE = NC

CURVE 12
PI = STA 487+03.26
Y = 320420.35
X = 201035.68
PC = STA 486+03.37
Y = 320424.31
X = 200935.87
PT = STA 488+03.13
Y = 320419.87
X = 201135.57
DELTA = 1°59'52" LT.
T = 99.89'
L = 199.77'
R = 5729.58'
EXISTING SE = 3.0%
PROPOSED SE = 3.0%

CURVE 13
PI = STA 503+68.83
Y = 320412.35
X = 202701.25
PC = STA 502+45.01
Y = 320412.94
X = 202577.43
PT = STA 504+92.50
Y = 320401.07
X = 202824.56
DELTA = 4°57'00" RT.
T = 123.82'
L = 247.49'
R = 2864.79'
EXISTING SE = 5.0%
PROPOSED SE = 5.0%

PROJECT NO: 1500-66-71	HWY: USH 10	COUNTY: MANITOWOC	ALIGNMENT DETAIL	SHEET 32	E

1500-66-71

Line	Item	Item Description	Unit	Total	Qty
0002	201.0105	Clearing	STA	8.000	8.000
0004	201.0205	Grubbing	STA	8.000	8.000
0006	203.0100	Removing Small Pipe Culverts	EACH	14.000	14.000
0012	204.0110	Removing Asphaltic Surface	SY	75.000	75.000
0014	204.0115	Removing Asphaltic Surface Butt Joints	SY	275.000	275.000
0016	204.0120	Removing Asphaltic Surface Milling	SY	150,050.000	150,050.000
0018	204.0150	Removing Curb & Gutter	LF	460.000	460.000
0022	204.0165	Removing Guardrail	LF	1,610.000	1,610.000
0036	205.0100	Excavation Common	CY	9,658.000	9,658.000
0038	205.0200	Excavation Rock	CY	851.000	851.000
0040	211.0100	Prepare Foundation for Asphaltic Paving (project) 01. 1500-66-71	LS	1.000	1.000
0046	211.0400	Prepare Foundation for Asphaltic Shoulders	STA	701.000	701.000
0050	213.0100	Finishing Roadway (project) 02. 1500-66-71	EACH	1.000	1.000
0054	305.0110	Base Aggregate Dense 3/4-Inch	TON	10,120.000	10,120.000
0056	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	925.000	925.000
0058	305.0500	Shaping Shoulders	STA	101.000	101.000
0064	416.0610	Drilled Tie Bars	EACH	30.000	30.000
0068	440.4410	Incentive IRI Ride	DOL	30,620.000	30,620.000
0070	455.0605	Tack Coat	GAL	23,110.000	23,110.000
0072	460.2005	Incentive Density PWL HMA Pavement	DOL	29,640.000	29,640.000
0074	460.2010	Incentive Air Voids HMA Pavement	DOL	46,340.000	46,340.000
0076	460.4110.S	Reheating HMA Pavement Longitudinal Joints	LF	40,420.000	40,420.000
0078	460.6223	HMA Pavement 3 MT 58-28 S	TON	27,240.000	27,240.000
0080	460.6224	HMA Pavement 4 MT 58-28 S	TON	19,100.000	19,100.000
0082	465.0105	Asphaltic Surface	TON	250.000	250.000
0084	465.0110	Asphaltic Surface Patching	TON	25.000	25.000
0086	465.0120	Asphaltic Surface Driveways and Field Entrances	TON	120.000	120.000
0088	465.0315	Asphaltic Flumes	SY	30.000	30.000
0092	465.0425	Asphaltic Shoulder Rumble Strips 2-Lane Rural	LF	67,265.000	67,265.000
0094	465.0475	Asphalt Center Line Rumble Strips 2-Lane Rural	LF	32,950.000	32,950.000
0096	504.0900	Concrete Masonry Endwalls	CY	39.000	39.000
0098	520.9700.S	Culvert Pipe Liners (size) 01. 24-Inch	LF	138.000	138.000
0100	520.9750.S	Cleaning Culvert Pipes for Liner Verification	EACH	1.000	1.000
0102	521.0124	Culvert Pipe Corrugated Steel 24-Inch	LF	52.000	52.000
0104	521.0142	Culvert Pipe Corrugated Steel 42-Inch	LF	36.000	36.000
0106	521.1024	Apron Endwalls for Culvert Pipe Steel 24-Inch	EACH	3.000	3.000
0108	521.1042	Apron Endwalls for Culvert Pipe Steel 42-Inch	EACH	2.000	2.000
0110	522.0124	Culvert Pipe Reinforced Concrete Class III 24-Inch	LF	136.000	136.000
0112	522.0136	Culvert Pipe Reinforced Concrete Class III 36-Inch	LF	208.000	208.000

1500-66-71

Line	Item	Item Description	Unit	Total	Qty
0114	522.0148	Culvert Pipe Reinforced Concrete Class III 48-Inch	LF	240.000	240.000
0116	522.0342	Culvert Pipe Reinforced Concrete Class IV 42-Inch	LF	208.000	208.000
0118	522.0372	Culvert Pipe Reinforced Concrete Class IV 72-Inch	LF	192.000	192.000
0120	522.1024	Apron Endwalls for Culvert Pipe Reinforced Concrete 24-Inch	EACH	2.000	2.000
0122	522.1036	Apron Endwalls for Culvert Pipe Reinforced Concrete 36-Inch	EACH	4.000	4.000
0124	523.0434	Culvert Pipe Reinforced Concrete Horizontal Elliptical Class HE-IV 34x53-Inch	LF	96.000	96.000
0126	523.0534	Apron Endwalls for Culvert Pipe Reinforced Concrete Horizontal Elliptical 34x53-Inch	EACH	2.000	2.000
0128	601.0409	Concrete Curb & Gutter 30-Inch Type A	LF	90.000	90.000
0132	601.0557	Concrete Curb & Gutter 6-Inch Sloped 36-Inch Type D	LF	320.000	320.000
0138	606.0200	Riprap Medium	CY	170.000	170.000
0162	612.0700	Drain Tile Exploration	LF	160.000	160.000
0164	614.2330	MGS Guardrail 3 K	LF	760.000	760.000
0166	614.2610	MGS Guardrail Terminal EAT	EACH	6.000	6.000
0170	618.0100	Maintenance And Repair of Haul Roads (project) 02. 1500-66-71	EACH	1.000	1.000
0174	619.1000	Mobilization	EACH	0.700	0.700
0176	624.0100	Water	MGAL	60.000	60.000
0180	625.0500	Salvaged Topsoil	SY	30,365.000	30,365.000
0182	627.0200	Mulching	SY	8,385.000	8,385.000
0184	628.1504	Silt Fence	LF	5,050.000	5,050.000
0186	628.1520	Silt Fence Maintenance	LF	5,050.000	5,050.000
0188	628.1905	Mobilizations Erosion Control	EACH	8.000	8.000
0190	628.1910	Mobilizations Emergency Erosion Control	EACH	8.000	8.000
0192	628.2004	Erosion Mat Class I Type B	SY	6,620.000	6,620.000
0194	628.2008	Erosion Mat Urban Class I Type B	SY	14,670.000	14,670.000
0196	628.2027	Erosion Mat Class II Type C	SY	700.000	700.000
0200	628.7015	Inlet Protection Type C	EACH	2.000	2.000
0202	628.7504	Temporary Ditch Checks	LF	515.000	515.000
0204	628.7555	Culvert Pipe Checks	EACH	150.000	150.000
0206	628.7570	Rock Bags	EACH	410.000	410.000
0208	629.0210	Fertilizer Type B	CWT	19.000	19.000
0210	630.0130	Seeding Mixture No. 30	LB	550.000	550.000
0214	633.5200	Markers Culvert End	EACH	32.000	32.000
0216	634.0614	Posts Wood 4x6-Inch X 14-FT	EACH	128.000	128.000
0218	634.0616	Posts Wood 4x6-Inch X 16-FT	EACH	38.000	38.000
0224	637.2210	Signs Type II Reflective H	SF	767.830	767.830
0228	637.2230	Signs Type II Reflective F	SF	233.250	233.250

1500-66-71

Line	Item	Item Description	Unit	Total	Qty
0230	638.2102	Moving Signs Type II	EACH	1.000	1.000
0232	638.2602	Removing Signs Type II	EACH	139.000	139.000
0234	638.3000	Removing Small Sign Supports	EACH	183.000	183.000
0236	642.5201	Field Office Type C	EACH	0.700	0.700
0240	643.0100	Traffic Control (project) 02. 1500-66-71	EACH	1.000	1.000
0244	643.0300	Traffic Control Drums	DAY	40,400.000	40,400.000
0246	643.0310.S	Temporary Portable Rumble Strips 01. 1500-66-71	LS	1.000	1.000
0250	643.0410	Traffic Control Barricades Type II	DAY	100.000	100.000
0256	643.0900	Traffic Control Signs	DAY	4,500.000	4,500.000
0264	643.1050	Traffic Control Signs PCMS	DAY	14.000	14.000
0276	645.0120	Geotextile Type HR	SY	455.000	455.000
0278	646.0106	Pavement Marking Epoxy 4-Inch	LF	48,850.000	48,850.000
0280	646.0406	Pavement Marking Same Day Epoxy 4-Inch	LF	48,850.000	48,850.000
0284	646.2304.S	Pavement Marking Grooved Wet Reflective Epoxy 4-Inch	LF	76,870.000	76,870.000
0286	646.2308.S	Pavement Marking Grooved Wet Reflective Epoxy 8-Inch	LF	385.000	385.000
0292	648.0100	Locating No-Passing Zones	MI	9.400	9.400
0294	649.0402	Temporary Pavement Marking Paint 4-Inch	LF	175,058.000	175,058.000
0298	650.4500	Construction Staking Subgrade	LF	360.000	360.000
0300	650.5000	Construction Staking Base	LF	360.000	360.000
0302	650.5500	Construction Staking Curb Gutter and Curb & Gutter	LF	320.000	320.000
0304	650.6000	Construction Staking Pipe Culverts	EACH	11.000	11.000
0306	650.8000	Construction Staking Resurfacing Reference	LF	40,420.000	40,420.000
0308	650.9910	Construction Staking Supplemental Control (project) 01. 1500-66-71	LS	1.000	1.000
0312	650.9920	Construction Staking Slope Stakes	LF	4,690.000	4,690.000
0314	690.0150	Sawing Asphalt	LF	2,120.000	2,120.000
0316	690.0250	Sawing Concrete	LF	100.000	100.000
0318	999.1500.S	Crack and Damage Survey	LS	1.000	1.000
0320	ASP.1T0A	On-the-Job Training Apprentice at $5.00/HR	HRS	2,400.000	2,400.000
0322	ASP.1T0G	On-the-Job Training Graduate at $5.00/HR	HRS	2,100.000	2,100.000
0328	SPV.0060	Special 03. HMA Percent Within Limits (PWL) Test Strip	EACH	2.000	2.000
0334	SPV.0105	Special 01. Guardrail Post Connection	LS	1.000	1.000

3

CLEARING AND GRUBBING ITEMS

	STATION	TO	STATION	OFFSET	201.0105 CLEARING STA	201.0205 GRUBBING STA
CAT 0010						
	178+00	-	180+00	RT	2	2
	207+00	-	208+00	LT	1	1
	431+00	-	436+00	RT	5	5
TOTALS					8	8

REMOVING SMALL PIPE CULVERTS

203.0100

REMOVING SMALL PIPE CULVERTS

	STATION	OFFSET	EACH	COMMENTS
CAT 0010				
	65+25	LT/RT	1	30" X 72' CPCS
	65+31	LT/RT	1	30" X 72' CPCS
	66+50	LT	1	42" X 32' CPCS
	88+25	LT/RT	1	24" X 72' CPCS
	107+50	LT/RT	1	30" X 62' CPCS
	146+00	LT/RT	1	18" X 126' CPRC
	178+67	RT	1	18" X 71' CP
	179+76	RT	1	18" X 49' CP
	207+34	LT/RT	1	42" X 114' CPRC
	295+09	LT/RT	1	54" X 76' CPRC
	295+20	LT/RT	1	54" X 76' CPRC
	421+09	LT/RT	1	24" X 95' CPCS
	431+72	RT	1	18" X 36' CP
	43+44	LT	1	AEW
TOTALS			14	

3

REMOVAL ITEMS

	STATION	TO	STATION	OFFSET	204.0110 REMOVING ASPHALTIC SURFACE SY	204.0115 REMOVING ASPHALTIC SURFACE BUTT JOINTS SY	204.0120 REMOVING ASPHALTIC SURFACE MILLING SY	204.0150 REMOVING CURB & GUTTER LF	204.0165 REMOVING GUARDRAIL LF	COMMENTS
CAT 0010										
	53+46	-	106+00	LT/RT	--	22	19,280	–	–	MAINLINE, SIDE ROADS, AND DRIVEWAYS
	54+58	-	57+76	LT	--	–	–	–	317	REMOVING GUARDRAIL
	54+52	-	57+77	RT	--	–	–	–	329	REMOVING GUARDRAIL
	106+00	-	163+00	LT/RT	--	11	20,070	–	–	MAINLINE, SIDE ROADS, AND DRIVEWAYS
	163+00	-	222+00	LT/RT	--	29	20,690	–	–	MAINLINE, SIDE ROADS, AND DRIVEWAYS
	222+00	-	277+50	LT/RT	--	59	23,290	–	–	MAINLINE, SIDE ROADS, AND DRIVEWAYS
	262+25	-	263+65	RT	39	–	–	167	–	BRODTKE RD SE AND SE RADIUS
	272+00	-	277+00	RT	36	–	–	205	–	CTH J SE AND SE RADIUS
	277+50	-	323+50	LT/RT	--	12	15,890	–	–	MAINLINE, SIDE ROADS, AND DRIVEWAYS
	394+73	-	395+61	LT	--	–	–	88	–	MAINLINE CURB
	395+61	-	437+50	LT/RT	--	73	15,590	–	–	MAINLINE, SIDE ROADS, AND DRIVEWAYS
	395+70		400+11	LT	--	–	–	–	442	REMOVING GUARDRAIL
	437+50	-	488+50	LT/RT	--	19	18,000	–	–	MAINLINE, SIDE ROADS, AND DRIVEWAYS
	437+39	-	442+55	LT	--	–	–	–	522	REMOVING GUARDRAIL
	488+50	-	529+74	LT/RT	--	50	17,240	–	–	MAINLINE, SIDE ROADS, AND DRIVEWAYS
TOTALS					75	275	150,050	460	1,610	

EARTHWORK SUMMARY

DIVISION	STATION TO STATION	LOCATION	205.0100 EXCAVATION COMMON (CY)	SALVAGED/ UNUSABLE PAVEMENT MATERIAL (CY)	AVAILABLE MATERIAL	205.0200 EXCAVATION ROCK	EXPANDED ROCK FACTOR 1.10	UNEXPANDED FILL	EXPANDED FILL FACTOR 1.35	MASS ORDINATE +/-	COMMENTS
			(1)	(2)	(3)		(4)		(5)	(6)	
1											
	53+46 - 58+44	LT & RT	175	92	83	--	–	527	712	-629	GUARDRAIL
	64+40 - 67+00	LT & RT	303	48	255	--	–	320	433	-177	CULVERTS
	87+00 - 89+40	LT & RT	118	44	73	--	–	294	397	-324	CULVERT
	106+19 - 108+81	LT & RT	185	48	137	--	–	273	369	-231	CULVERT
	145+50 - 146+50	LT & RT	90	19	71	--	–	103	139	-67	CULVERT
	178+00 - 180+50	RT	250	–	250	--	–	--	–	250	DRIVEWAY REMOVALS**
	207+00 - 207+75	LT & RT	64	14	50	--	–	30	41	9	CULVERTS
	272+00 - 275+61	LT & RT	411	103	308	--	–	130	176	132	CTH J TURN LANE
	294+25 - 295+75	LT & RT	72	28	44	--	–	246	332	-288	CULVERT
	395+61 - 401+00	LT & RT	139	100	40	--	–	120	162	-122	GUARDRAIL
	420+00 - 422+00	LT & RT	89	37	52	--	–	342	462	-410	CULVERT
	428+00 - 435+85	LT & RT	7,531	145	7,385	851	936	171	-1,032	8,417	HWY R RD
	437+00 - 446+00	LT & RT	231	167	64	--	–	757	1,021	-957	CTH T
PROJECT TOTAL			9,658	845	8,813	851	936	3,314	3,211	5,602	

NOTES:

(1) CUT INCLUDES SALVAGED/UNUSABLE PAVEMENT MATERIAL
(2) SALVAGED/UNUSABLE PAVEMENT WAS CALCULATED BY PAVEMENT WIDTH * DEPTH
(3) AVAILABLE MATERIAL = CUT - SALVAGED/UNUSABLE PAVEMENT AREA
(4) EXPANDED ROCK EQUALS ROCK EXCAVATION * EXPANDED ROCK FACTOR
(5) EXPANDED FILL EQUALS (UNEXPANDED FILL-EXPNDED ROCK) * EXPANDED FILL FACTOR
(6) MASS ORDINATE EQUALS AVAILABLE MATERIAL - EXPANDED FILL
** ESTIMATED BASE ON AREA OF DISTURBANCE, NO CROSS SECTIONS PROVIDED

PREPARE FOUNDATION ITEMS

	STATION TO STATION	OFFSET	211.0100 PREPARE FOUNDATION FOR ASPHALTIC PAVING (1500-66-71) LS	211.0400 PREPARE FOUNDATION FOR ASPHALTIC SHOULDERS STA
CAT 0010				
	53+45 - 529+74	LT&RT	1	--
	58+00 - 323+50	LT&RT	–	468
	395+61 - 529+74	LT&RT	–	233
TOTALS			1	701

BASE AGGREGATE ITEMS

	STATION TO STATION	OFFSET	305.0110 BASE AGGREGATE DENSE 3/4-INCH TON	305.0120 BASE AGGREGATE DENSE 1 1/4-INCH TON	305.0500 SHAPING SHOULDERS STA	COMMENTS
CAT 0010						
	53+46 - 106+00	LT&RT	1,270	–	9	BEGIN - MAERTZ RD
	53+46 - 106+00	LT&RT	67	–	–	DRIVEWAYS
	65+11 - 65+46	LT&RT	–	125	–	CULVERT REPLACEMENT
	88+10 - 88+40	LT&RT	–	107	–	CULVERT REPLACEMENT
	106+00 - 163+00	LT&RT	1,393	–	8	MAERTZ RD - CTH G
	106+00 - 163+00	LT&RT	62	–	–	DRIVEWAYS
	107+34 - 107+66	LT&RT	–	115	–	CULVERT REPLACEMENT
	145+88 - 146+13	LT&RT	–	89	–	CULVERT REPLACEMENT
	163+00 - 222+00	LT&RT	1,442	–	10	CTH G - MENCHALVILLE RD
	163+00 - 222+00	LT&RT	31	–	–	DRIVEWAYS
	207+22 - 207+52	LT&RT	–	107	–	CULVERT REPLACEMENT
	222+00 - 277+50	LT&RT	1,253	–	33	MENCHALVILLE RD - CTH J
	222+00 - 277+50	LT&RT	23	–	–	DRIVEWAYS
	277+50 - 323+50	LT&RT	1,124	–	4	CTH J - END
	277+50 - 323+50	LT&RT	70	–	–	DRIVEWAYS
	272+00 - 275+61	RT		59	–	TURN LANE WIDENING
	294+86 - 295+46	LT&RT	–	202	–	CULVERT REPLACEMENT
	395+61 - 437+50	LT&RT	934	–	8	BEGIN - CTH T/HIGHWAY H RD
	395+61 - 437+50	LT&RT	169	–	–	DRIVEWAYS
	420+92 - 421+26	LT&RT	–	121	–	CULVERT REPLACEMENT
	437+50 - 488+50	LT&RT	1,188	–	4	CTH T/HIGHWAY H RD - DANMAR RD
	437+50 - 488+50	LT&RT	78	–	–	DRIVEWAYS
	488+50 - 529+74	LT&RT	985	–	25	DANMAR RD - END
	488+50 - 529+74	LT&RT	31	–	–	DRIVEWAYS
TOTALS			10,120	925	101	

ASPHALTIC ITEMS

	STATION	TO	STATION	OFFSET	455.0605 TACK COAT GAL	460.4110.S REHEATING HMA PAVEMENT LONGITUDINAL JOINTS LF	460.6223 HMA PAVEMENT 3 MT 58-28 S TON	# PWL DENSITY INCENTIVE TON	## PWL AIR VOIDS TON	460.6224 HMA PAVEMENT 4 MT 58-28 S TON	# PWL DENSITY INCENTIVE TON	## PWL AIR VOIDS TON	465.0105 ASPHALTIC SURFACE TON	465.0110 ASPHALTIC SURFACE PATCHING TON	465.0120 ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES TON	465.0315 ASPHALTIC FLUMES SY	465.0425 ASPHALTIC SHOULDER RUMBLE STRIPS 2-LANE RURAL LF	465.0475 ASPHALTIC CENTERLINE RUMBLE STRIPS 2-LANE RURAL LF	SPV.0060.03 HMA PERCENT WITHIN LIMITS (PWL) TEST STRIP EACH	COMMENTS
CAT 0010																				
	53+46	-	106+00	LT&RT	2,975	5,255	3,508	2,312	3,508	2,461	1,541	2,461	–	--	--	--	9,264	4,428	--	BEGIN - MAERTZ RD
	65+11	-	65+46	LT&RT	–	–	--	--	–	--	--	–	40	--	--	--	–	--	--	CULVERT REPLACEMENT
	88+10	-	88+40	LT&RT	–	–	--	--	–	--	--	–	30	--	--	--	–	--	--	CULVERT REPLACEMENT
	106+00	-	163+00	LT&RT	3,137	5,700	3,697	2,508	3,697	2,597	1,672	2,597	–	--	--	--	10,030	4,728	--	MAERTZ RD - CTH G
	107+34	-	107+66	LT&RT	–	–	--	--	–	--	--	–	32	--	--	--	–	--	--	CULVERT REPLACEMENT
	145+88	-	146+13	LT&RT	–	–	--	--	–	--	--	–	25	--	--	--	–	--	--	CULVERT REPLACEMENT
	163+00	-	222+00	LT&RT	3,236	5,900	3,814	2,596	3,814	2,680	1,731	2,680	–	--	17	--	10,776	5,468	--	CTH G - MENCHALVILLE RD
	207+22	-	207+52	LT&RT	–	–	--	--	–	--	--	–	30	--	--	--	–	--	--	CULVERT REPLACEMENT
	222+00	-	277+50	LT&RT	3,518	5,550	4,146	2,442	4,146	2,892	1,628	2,892	–	--	16	--	7,295	3,830	--	MENCHALVILLE RD - CTH J
		263+09		LT&RT	–	–	--	--	–	--	--	–	–	14	--	16	–	--	--	BRODTKE RD
		276+41		RT	–	–	--	--	–	--	--	–	–	11	--	14	–	--	--	CTH J
	277+50	-	323+50	LT&RT	2,495	4,600	2,941	2,024	2,941	2,068	1,349	2,068	–	--	--	--	8,475	4,109	--	CTH J - END
	294+86	-	295+46	LT&RT	–	–	--	--	–	--	--	–	57	--	--	--	–	--	--	CULVERT REPLACEMENT
	395+61	-	437+50	LT&RT	2,405	4,190	2,836	1,843	2,836	1,988	1,229	1,988		--	63	--	6,452	2,730	--	BEGIN - CTH T/HIGHWAY H RD
	420+92	-	421+26	LT&RT	–	–	--	--	–	--	--	–	34	--	--	--	–	--	--	CULVERT REPLACEMENT
	437+50	-	488+50	LT&RT	2,808	5,100	3,309	2,244	3,309	2,327	1,496	2,327	–	--	17	--	8,570	4,477	--	CTH T/HIGHWAY H RD - DANMAR RD
	488+50	-	529+74	LT&RT	2,536	4,125	2,989	1,814	2,989	2,088	1,211	2,088	–	--	8	--	6,403	3,180	--	DANMAR RD - END
		PROJECT		LT & RT	–	–	--	--	–	--	--	–	–	--	--	--	–	--	2	1 FOR EACH LAYER
TOTALS					23,110	40,420	27,240	17,783	27,240	19,100	11,857	19,100	250	25	120	30	67,265	32,950	2	

TONNAGE IS ELIGIBLE FOR INCENTIVE DENSITY PWL 460.2005 AND INCENTIVE AIR VOIDS 460.2010. TOTAL IS 29,640 TONS.
TONNAGE IS ELIGIBLE FOR INCENTIVE AIR VOIDS 460.2010 AND DENSITY IS TESTED FOR ACCEPTANCE IN THOSE AREA. TOTAL IS 46,340 TONS.

CONCRETE CURB & GUTTER

	STATION	TO	STATION	OFFSET	416.0610 DRILLED TIE BARS EACH	601.0409 CONCRETE CURB & GUTTER 30-INCH TYPE A LF	601.0557 CONCRETE CURB & GUTTER 6-INCH SLOPED 36-INCH TYPE D LF	COMMENTS
CAT 0010	262+26	-	262+90	RT	--	–	98	BRODTKE RD SW
	263+24	-	263+65	RT	--	–	69	BRODTKE RD SE
	275+61	-	276+19	RT	--	–	90	CTH J SW
	276+61	-	276+99	RT	--	–	63	CTH J SE
	394+73	-	395+62	LT	30	90	–	
TOTALS					30	90	320	

3

CROSS DRAINS

		504.0900	520.9700.S	520.9750.S	521.0124*	521.1024*	522.0124	522.0136	522.0342	522.0148	522.0372	522.1024	522.1036	523.0434	523.0534	633.5200	
STATION	OFFSET	CONCRETE MASONRY ENDWALLS CY	CULVERT PIPE LINERS 24-INCH LF	CLEANING CULVERT PIPES FOR LINEAR VERIFICATION EACH	CULVERT PIPE CORRUGATED STEEL 24-INCH LF	APRON ENDWALLS FOR CULVERT PIPE STEEL 24-INCH EACH	CULVERT PIPE REINFORCED CONCRETE CLASS III 24-INCH LF	CULVERT PIPE REINFORCED CONCRETE CLASS III 36-INCH LF	CULVERT PIPE REINFORCED CONCRETE CLASS IV 42-INCH LF	CULVERT PIPE REINFORCED CONCRETE CLASS III 48-INCH LF	CULVERT PIPE REINFORCED CONCRETE CLASS IV 72-INCH LF	APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 24-INCH EACH	APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 36-INCH EACH	CULVERT PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL CLASS HE-IV 34X53-INCH LF	APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL 34X53-INCH EACH	MARKERS CULVERT END EACH	COMMENTS
CAT 0010																	
65+25	LT&RT	8	–	–	–	–	--	–	104	–	--	–	–	--	--	2	CROSS CULVERT
65+31	LT&RT	--	–	–	–	–	--	–	104	–	--	–	–	--	--	–	CROSS CULVERT
88+25	LT&RT	--	–	–	–	–	--	104	--	–	--	–	2	--	--	2	CROSS CULVERT
107+50	LT&RT	--	–	–	–	–	--	–	--	–	--	–	–	96	2	2	CROSS CULVERT
146+00	LT&RT	--	–	–	–	–	136	–	--	–	--	2		--	--	2	CROSS CULVERT
207+34	LT&RT	9	–	–	–	–	--	–	--	120	--	–	–	--	--	2	CROSS CULVERT
207+41	LT&RT	--	–	–	–	–	--	–	--	120	--	–	–	--	--	–	CROSS CULVERT
270+00	LT&RT	--	–	–	–	–	--	–	--	–	--	–	–	--	--	2	EXISTING CULVERT
290+70	LT&RT	--	–	–	–	–	--	–	--	–	--	–	–	--	--	2	EXISTING CULVERT
295+09	LT&RT	22	–	–	–	–	--	–	--	–	96	–	–	--	--	2	CROSS CULVERT
295+20	LT&RT	--	–	–	–	–	--	–	--	–	96	–	–	--	--	–	CROSS CULVERT
421+09	LT&RT	--	–	–	–	–	--	104	--	–	--	–	2	--	--	2	CROSS CULVERT
439+44	LT&RT	--	138	1	6	1	--	–	--	–	--	–	–	--	--	2	PIPE LINER AND EXTENSION#
464+14	LT&RT	--	–	–	–	–	--	–	--	–	--	–	–	--	--	2	EXISTING CULVERT
477+95	LT&RT	--	–	–	–	–	--	–	--	–	--	–	–	--	--	2	EXISTING CULVERT
500+74	LT&RT	--	–	–	–	–	--	–	--	–	--	–	–	--	--	2	EXISTING CULVERT
507+95	LT&RT	--	–	–	–	–	--	–	--	–	--	–	–	--	--	2	EXISTING CULVERT
515+14	LT&RT	--	–	–	–	–	--	–	--	–	--	–	–	--	--	2	EXISTING CULVERT
523+08	LT&RT	--	–	–	–	–	--	–	--	–	--	–	–	--	--	2	EXISTING CULVERT
TOTALS		39	138	1	6	1	136	208	208	240	192	2	4	96	2	32	

*ADDITIONAL QUANTITIES SHOWN ELSEWHERE

THICKNESS OF PROPOSED PIPE IS 0.064 INCHES; EXISTING PIPE IS 24-INCH CORRUGATED STEEL WITH A SLOPE OF 1.00%

3

MINOR SIDE ROAD, PRIVATE ENTRANCE, AND SLOPE DRAINS

	STATION	OFFSET	MINIMUM THICKNESS INCHES	521.0124* CULVERT PIPE CORRUGATED STEEL 24-INCH LF	521.0142 CULVERT PIPE CORRUGATED STEEL 42-INCH LF	521.1024* APRON ENDWALLS FOR CULVERT PIPE STEEL 24-INCH EACH	521.1042 APRON ENDWALLS FOR CULVERT PIPE STEEL 42-INCH EACH	COMMENTS
CAT 0010								
	66+50	LT	0.109	--	36	--	2	PRIVATE ENTRANCE
	431+72	RT	0.064	46	--	2	--	PRIVATE ENTRANCE
TOTALS				46	36	2	2	

*ADDITIONAL QUANTITIES SHOWN ELSEWHERE

DRAIN TILE ITEMS

	STATION	OFFSET	612.0700 DRAIN TILE EXPLORATION LF
CAT 0010			
	421+09	LT&RT	160
TOTALS			160

3

RIPRAP ITEMS

	STATION	OFFSET	606.0200 RIPRAP MEDIUM CY	645.0120 GEOTEXTILE TYPE HR SY	COMMENTS
CAT 0010					
	65+25	RT	16	42	CULVERT
	88+25	RT	12	35	CULVERT
	107+50	RT	18	50	CULVERT
	146+00	RT	3	10	CULVERT
	207+34	LT	30	75	CULVERT
	295+09	LT	60	140	CULVERT
	295+26	RT	15	55	CULVERT
	421+09	RT	8	25	CULVERT
	439+44	LT	8	23	CULVERT
TOTALS			170	455	

GUARDRAIL ITEMS

	STATION	TO	STATION	OFFSET	614.2330 MGS GUARDRAIL 3 K LF	614.2610 MGS GUARDRAIL TERMINAL EAT EACH	SPV.0105.01 GUARDRAIL POST CONNECTION LS
CAT 0010							
	54+34	-	57+43	LT	200	2	1
	54+16	-	57+32	RT	210	2	--
	395+73	-	400+23	LT	350	2	--
TOTALS					760	6	1

3

WATER

LOCATION		624.0100 MGAL
CAT 0010		
	PROJECT-BASE COMPACTION	20
	PROJECT-SUBGRADE PREPARATION	40
TOTALS		60

RESTORATION ITEMS

STATION	TO	STATION	OFFSET	625.0500 SALVAGED TOPSOIL SY	627.0200 MULCHING SY	629.0210 FERTILIZER TYPE B CWT	630.0130 SEEDING MIXTURE NO. 30 LB
CAT 0010							
53+45	-	58+44	LT/RT	2,067	--	1.3	37
64+41	-	66+50	LT/RT	1,658	1,036	1.0	30
87+00	-	89+41	LT/RT	1,348	707	0.8	24
106+05	-	109+00	LT/RT	1,343	627	0.8	24
145+25	-	146+75	LT/RT	1,294	1,108	0.8	23
178+00	-	180+50	RT	1,324	924	0.8	24
206+70	-	208+00	LT/RT	1,700	1,335	1.1	31
272+00	-	277+00	RT	1,244	--	0.8	22
294+10	-	296+25	LT/RT	1,216	--	0.8	22
394+60	-	400+90	LT	419	--	0.3	8
419+90	-	422+30	LT/RT	1,649	972	1.0	30
428+00	-	435+80	RT	6,601	--	4.2	122
437+00	-	446+25	LT	2,427	--	1.5	44
UNDISTRIBUTED				6,075	1,676	3.8	109
TOTALS				30,365	8,385	19.0	550

EROSION CONTROL ITEMS

STATION	TO	STATION	OFFSET	628.1504 SILT FENCE LF	628.1520 SILT FENCE MAINTENANCE LF	628.2004 EROSION MAT CLASS I TYPE B SY	628.2008 EROSION MAT URBAN CLASS I TYPE B SY	628.2027 EROSION MAT CLASS II TYPE C SY	628.7015 INLET PROTECTION TYPE C EACH	628.7504 TEMPORARY DITCH CHECKS LF	628.7555 CULVERT PIPE CHECKS EACH	628.7570 ROCK BAGS EACH
CAT 0010												
53+45	-	58+44	LT/RT	740	740	–	1,510	560	--	20	--	90
64+41	-	66+50	LT/RT	–	–	620	--	–	--	30	10	–
87+00	-	89+41	LT/RT	200	200	640	--	–	--	40	10	30
106+05	-	109+00	LT/RT	130	130	720	--	–	--	40	10	30
145+25	-	146+75	LT/RT	190	190	190	--	–	--	20	10	–
178+00	-	180+50	RT	110	110	400	--	–	--	20	--	15
206+70	-	208+00	LT/RT	270	270	370	--	–	--	40	20	–
272+00	-	277+00	RT	210	210	–	1,240	–	--	30	10	–
294+10	-	296+25	LT/RT	330	330	–	1,220	–	--	40	30	30
394+60	-	400+90	LT	650	650	420	--	–	1	–	--	45
419+90	-	422+30	LT/RT	330	330	680	--	–	--	40	10	30
428+00	-	435+80	RT	–	–	1,260	5,340	–	--	90	10	–
437+00	-	446+25	LT	880	880	–	2,430	–	--	–	--	60
UNDISTRIBUTED				1,010	1,010	1,320	2,930	140	1	105	30	80
TOTALS				5,050	5,050	6,620	14,670	700	2	515	150	410

EROSION CONTROL MOBILIZATION

CATEGORY	LOCATION	628.1905 MOBILIZATIONS EROSION CONTROL EACH	628.1910 MOBILIZATIONS EMERGENCY EROSION CONTROL EACH
0010			
	PROJECT	8	8
TOTAL		8	8

3

3

ERECTION & REMOVAL OF PERMANENT SIGNING, TYPE II

SIGN NO.	LOCATION	SIGN CODE	W X H	637.2210 SIGNS TYPE II REFLECTIVE TYPE H SF	637.2230 SIGNS TYPE II REFLECTIVE TYPE F SF	638.2102 MOVING SIGNS TYPE II EACH	634.0614 POSTS WOOD 4x6x14 EACH	634.0616 POSTS WOOD 4x6x16 EACH	638.2602 REMOVING SIGNS TYPE II EACH	638.3000 REMOVING SMALL SIGN SUPPORTS EACH	COMMENTS
CAT 0010											
1	VACANT	---	---	---	—	---	—	—	---	---	
2	VACANT	---	---	---	—	---	—	—	---	---	
3	USH 10, E. OF PLEASANT VALLEY RD	W8-70	---	---	—	---	—	—	1	1	ALSO REMOVE W57-51
4	"	J4-1	24" X 36"	6.00	—	---	1	—	1	1	SEE PLAN SHEET
5	"	R2-1	24" X 30"	5.00	—	---	1	—	1	1	45 MPH
6	"	R2-1	24" X 30"	5.00	—	---	1	—	1	1	55 MPH
7	"	R59-51	36" X 36"	9.00	—	---	1	—	1	1	
8	"	I2-3	72" X 24"	12.00	—	---	2	—	1	2	SEE SIGN DETAIL SHEET
9	VACANT	---	---	---	—	---	—	—	---	---	
10	USH 10, E. OF PLEASANT VALLEY RD	D2-2	78" X 36"	19.50	—	---	2	—	1	2	SEE SIGN DETAIL SHEET
11	"	W3-5	36" X 36"	---	9.00	---	—	1	1	1	45 MPH
12	"	D1-1	66" X 15"	6.88	—	---	2	—	1	2	SEE SIGN DETAIL SHEET
13	VACANT	---	---	---	—	---	—	—	---	---	
14	USH 10, E. OF PLEASANT VALLEY RD	W14-3	48" X 36"	---	6.00	---	—	1	1	1	
15	GROVE RD	R1-1	30" X 30"	5.18	—	---	1	—	1	1	
16	"	R1-1	30" X 30"	5.18	—	---	1	—	1	1	
17	USH 10, E. OF GROVE RD	D1-1	66" X 15"	6.88	—	---	2	—	1	2	SEE SIGN DETAIL SHEET
18	"	D1-1	72" X 15"	7.50	—	---	2	—	1	2	SEE SIGN DETAIL SHEET
19	"	I55-56	30" X 36"	7.50	—	---	1	—	1	1	SEE PLAN SHEET
20	"	I55-56	30" X 36"	7.50	—	---	1	—	1	1	SEE PLAN SHEET
21	"	W1-7	48" X 24"	---	8.00	---	1	—	1	1	
22	MAERTZ RD	R1-1	30" X 30"	5.18	—	---	1	—	1	1	
23	VACANT	---	---	---	—	---	—	—	---	---	
24	USH 10, E. OF MAERTZ RD	D1-1	102" X 15"	10.63	—	---	2	—	1	2	SEE SIGN DETAIL SHEET
25	"	D1-1	72" X 15"	7.50	—	---	2	—	1	2	SEE SIGN DETAIL SHEET
26	"	W14-3	48" X 36"	---	6.00	---	—	1	1	1	
27	ROCKY LEDGE LN	R1-1	30" X 30"	5.18	—	---	1	—	1	1	
28	USH 10, E. OF ROCKY LEDGE LN	W1-2R	30" X 30"	---	6.25	---	—	1	---	---	
29	"	D1-1	102" X 15"	10.63	—	---	2	—	1	2	SEE SIGN DETAIL SHEET
30	VACANT	---	---	---	—	---	—	—	---	---	
31	USH 10, E. OF ROCKY LEDGE LN	D1-1	90" X 15"	9.38	—	---	2	—	1	2	SEE SIGN DETAIL SHEET
32	VACANT	---	---	---	—	---	—	—	---	---	
33	STEINBERG RD	R1-1	30" X 30"	5.18	—	---	1	—	1	1	
34	VACANT	---	---	---	—	---	—	—	---	---	
35	USH 10, E. OF STEINBERG RD	W1-2L	30" X 30"	---	6.25	---	—	—	---	---	MOUNT TO BACK OF SIGN 34
SUBTOTALS				156.80	41.50	0	30	4	25	34	

3

ERECTION & REMOVAL OF PERMANENT SIGNING, TYPE II

SIGN NO.	LOCATION	SIGN CODE	W X H	637.2210 SIGNS TYPE II REFLECTIVE TYPE H SF	637.2230 SIGNS TYPE II REFLECTIVE TYPE F SF	638.2102 MOVING SIGNS TYPE II EACH	634.0614 POSTS WOOD 4x6x14 EACH	634.0616 POSTS WOOD 4x6x16 EACH	638.2602 REMOVING SIGNS TYPE II EACH	638.3000 REMOVING SMALL SIGN SUPPORTS EACH	COMMENTS
CAT 0010											
36	VACANT	---	---	—	---	---	—	—	—	—	
37	USH 10, E. OF STEINBERG RD	D1-1	90" X 15"	9.38	---	---	2	—	1	2	SEE SIGN DETAIL SHEET
38	"	D1-1	---	—	---	---	—	—	1	2	
39	VACANT	---	---	—	---	---	—	—	—	—	
40	USH 10, E. OF STEINBERG RD	W14-3	48" X 36"	—	6.00	---	—	1	1	1	
41	"	I2-3	54" X 24"	9.00	---	---	2	—	1	2	SEE SIGN DETAIL SHEET
42	VACANT	---	---	—	---	---	—	—	—	—	
43	USH 10, E. OF STEINBERG RD	J1-1	24" X 39"	6.50	6.50	---	—	1	1	1	SEE PLAN SHEET
44	"	D1-1	78" X 15"	8.13	---	---	2	—	1	2	SEE SIGN DETAIL SHEET
45	"	D1-1	---	—	---	---	—	—	1	2	
46	"	R2-1	24" X 30"	5.00	---	---	1	—	—	—	55 MPH
47	"	J4-1	---	—	---	---	—	—	1	1	
48	"	J4-1	24" X 36"	6.00	---	---	1	—	—	—	SEE PLAN SHEET
49	"	J13-1	24" X 45"	7.50	---	---	—	1	1	1	SEE PLAN SHEET
50	CTH G	J13-1	24" X 45"	7.50	---	---	—	1	1	1	SEE PLAN SHEET
51	"	R1-1	36" X 36"	7.46	---	---	1	—	1	1	
52	"	R1-1	36" X 36"	7.46	---	---	1	—	1	1	
53	GRIMMS RD	R1-1	36" X 36"	7.46	---	---	1	—	1	1	
54	"	R1-1	36" X 36"	7.46	---	---	1	—	1	1	
55	USH 10, E. OF CTH G	J13-1	24" X 45"	7.50	---	---	—	1	1	1	SEE PLAN SHEET
56	"	J4-1	24" X 36"	6.00	---	---	1	—	—	—	SEE PLAN SHEET
57	"	R2-1	24" X 30"	5.00	---	---	1	—	—	—	
58	"	J4-1	---	—	---	---	—	—	1	1	
59	VACANT	---	---	—	---	---	—	—	—	—	
60	USH 10, E. OF CTH G	D1-1	---	—	---	---	—	—	1	2	
61	"	W14-3	48" X 36"	—	6.00	---	—	1	—	—	
62	"	D1-1	78" X 15"	8.13	---	---	—	—	1	2	SEE SIGN DETAIL SHEET, MOUNT TO BACK OF SIGN 61
63	VACANT	---	---	—	---	---	—	—	—	—	
64	USH 10, E. OF CTH G	J1-1	24" X 39"	6.50	6.50	---	—	1	1	1	SEE PLAN SHEET
65	"	I2-3	54" X 24"	9.00	---	---	2	—	1	2	SEE SIGN DETAIL SHEET
66	VACANT	---	---	—	---	---	—	—	—	—	
67	VACANT	---	---	—	---	---	—	—	—	—	
68	VACANT	---	---	—	---	---	—	—	—	—	
69	VACANT	---	---	—	---	---	—	—	—	—	
70	USH 10, E. OF CTH G	W14-3	48" X 36"	—	6.00	---	—	1	1	1	
SUBTOTALS				130.98	31.00	0	16	8	21	29	

3

ERECTION & REMOVAL OF PERMANENT SIGNING, TYPE II

SIGN NO.	LOCATION	SIGN CODE	W X H	637.2210 SIGNS TYPE II REFLECTIVE TYPE H SF	637.2230 SIGNS TYPE II REFLECTIVE TYPE F SF	638.2102 MOVING SIGNS TYPE II EACH	634.0614 POSTS WOOD 4x6x14 EACH	634.0616 POSTS WOOD 4x6x16 EACH	638.2602 REMOVING SIGNS TYPE II EACH	638.3000 REMOVING SMALL SIGN SUPPORTS EACH	COMMENTS
CAT 0010											
71	USH 10, E. OF CTH G	W14-3	48" X 36"	—	6	---	---	1	1	1	
72	VACANT	---	---	—	---	---	---	—	—	—	
73	USH 10, E. OF CTH G	D1-61	84" X 24"	14.00	---	---	2	—	1	2	SEE SIGN DETAIL SHEET
74	MENCHALVILLE RD	R1-1	30" X 30"	5.18	---	---	1	—	1	1	
75	"	R1-1	30" X 30"	5.18	---	---	1	—	1	1	
76	USH 10, E. OF MENCHALVILLE RD	I55-56	30" X 36"	7.50	---	---	1	—	1	1	SEE PLAN SHEET
77	VACANT	---	---	—	---	---	---	—	—	—	
78	USH 10, E. OF MENCHALVILLE RD	D1-61	84" X 24"	14.00	---	---	2	—	1	2	SEE SIGN DETAIL SHEET
79	"	W14-3	48" X 36"	—	6	---	---	1	1	1	
80	FRITSCH LN	R1-1	30" X 30"	5.18	---	---	1	—	1	1	
81	VACANT	---	---	—	---	---	---	—	—	—	
82	USH 10, E. OF FRITSCH LN	D2-3	---	—	---	---	---	—	1	2	SEE SIGN DETAIL SHEET
83	"	D1-1	78" X 15"	8.13	---	---	2	—	1	2	SEE SIGN DETAIL SHEET
84	VACANT	---	---	—	---	---	---	—	—	—	
85	USH 10, E. OF FRITSCH LN	I2-3	54" X 24"	9.00	---	---	2	—	1	2	SEE SIGN DETAIL SHEET
86	LAMBRECHT LN	R1-1	30" X 30"	5.18	---	---	1	—	1	1	
87	BRODTKE RD	R1-1	30" X 30"	5.18	---	---	1	—	1	1	
88	USH 10, E. OF BRODTKE RD	W14-3	48" X 36"	—	6	---	---	1	1	1	
89	"	J1-1	24" X 39"	6.50	7	---	---	1	1	1	SEE PLAN SHEET
90	"	R1-1	30" X 30"	5.18	---	---	1	—	1	1	
91	"	S3-1	36" X 36"	—	9	---	1	—	1	1	
92	"	J4-1	---	—	---	---	---	—	1	1	
93	"	D1-2	84" X 24"	14.00	---	---	2	—	1	2	SEE SIGN DETAIL SHEET
94	"	D1-1	78" X 15"	8.13	---	---	2	—	1	2	SEE SIGN DETAIL SHEET
95	"	D1-1	---	—	---	---	---	—	1	2	
96	"	R2-1	24" X 30"	5.00	---	---	1	—	1	1	55 MPH
97	"	J4-1	24" X 36"	6.00	---	---	1	—	—	—	SEE PLAN SHEET
98	"	J13-1	24" X 48"	8.00	---	---	---	1	1	1	SEE PLAN SHEET
99	CTH J	J13-1	24" X 48"	8.00	---	---	---	1	1	1	SEE PLAN SHEET
100	"	R1-1	30" X 30"	5.18	---	---	1	—	1	1	
101	"	R1-1	30" X 30"	5.18	---	---	1	—	1	1	
102	"	J13-1	24" X 48"	8.00	---	---	---	1	1	1	SEE PLAN SHEET
103	USH 10, E. OF CTH J	J13-1	24" X 48"	8.00	---	---	---	1	1	1	SEE PLAN SHEET
104	"	J4-1	24" X 36"	6.00	---	---	1	—	1	1	SEE PLAN SHEET
105	"	D1-2	84" X 24"	14.00	---	---	2	—	1	2	SEE SIGN DETAIL SHEET
SUBTOTALS				185.70	33.50	0	27	8	30	39	

3

ERECTION & REMOVAL OF PERMANENT SIGNING, TYPE II

SIGN NO.	LOCATION	SIGN CODE	W X H	637.2210 SIGNS TYPE II REFLECTIVE TYPE H SF	637.2230 SIGNS TYPE II REFLECTIVE TYPE F SF	638.2102 MOVING SIGNS TYPE II EACH	634.0614 POSTS WOOD 4x6x14 EACH	634.0616 POSTS WOOD 4x6x16 EACH	638.2602 REMOVING SIGNS TYPE II EACH	638.3000 REMOVING SMALL SIGN SUPPORTS EACH	COMMENTS
CAT 0010											
106	USH 10, E. OF CTH J	R2-1	24" X 30"	5.00	---	—	1	---	1	1	55 MPH
107	VACANT	---	—	---	---	—	---	---	---	---	
108	USH 10, E. OF CTH J	R10-64	—	---	---	1	---	1	---	1	MOVE TO STATION 288+00
109	"	D2-3	—	---	---	—	---	---	1	2	
110	"	W2-1	30" X 30"	---	6.25	—	---	1	1	1	
110A	"	W13-1	18" X 18"	---	2	—	---	---	---	---	45 MPH, MOUNT BELOW SIGN 110
111	"	J1-1	24" X 39"	6.50	7	—	---	1	1	1	SEE PLAN SHEET
112	"	W14-3	48" X 36"	---	6	—	---	1	1	1	
113	"	I2-3	54" X 24"	9.00	---	—	2	---	1	2	SEE SIGN DETAIL SHEET
114	LEMBERGER RD	R1-1	30" X 30"	5.18	---	—	1	---	1	1	
115	VACANT	---	—	---	---	—	---	---	---	---	
116	USH 10, E. OF LEMBERGER RD	W14-3	48" X 36"	---	6	—	---	1	1	1	
116A	"	J4-1	24" X 36"	6.00	---	—	1	---	---	---	SEE PLAN SHEET
117	"	I2-3	60" X 24"	10.00	---	—	2	---	1	2	SEE SIGN DETAIL SHEET
118	USH 10, W. OF BOOMER LN	W8-70	—	---	---	—	---	---	1	1	ALSO REMOVE W57-51
119	"	I55-56	—	---	---	—	---	---	1	1	
120	"	W14-3	48" X 36"	---	6	—	---	1	1	1	
121	"	I2-3	60" X 24"	10.00	---	—	2	---	1	2	SEE SIGN DETAIL SHEET
122		J4-1	24" X 36"	6.00	---	—	1	---	1	1	SEE PLAN SHEET
123		D1-1	—	---	---	—	---	---	1	2	
124		W2-2	30" X 30"	---	6	—	1	---	1	1	
125		W3-5	36" X 36"	---	9	—	---	1	1	1	35 MPH
126	BOOMER LN	R1-1	30" X 30"	5.18	---	—	1	---	1	1	
127	USH 10, E. OF BOOMER LN	W1-4L	30" X 30"	---	6	—	1	---	1	1	
128	"	W13-1	18" X 18"	2.25	2.25	—	---	---	---	---	MOUNT BELOW SIGN 127
129	"	W1-6	48" X 24"	---	8	—	1	---	1	1	
130	WALTERS LN	R1-1	30" X 30"	5.18	---	—	1	---	1	1	
131	USH 10, E. OF WALTERS LN	J1-1	24" X 39"	6.50	---	—	---	1	1	1	SEE PLAN SHEET
132	"	D1-1	72" X 15"	7.50	---	—	2	---	1	2	SEE SIGN DETAIL SHEET
133	"	D1-2	84" X 24"	14.00	---	—	2	---	1	2	SEE SIGN DETAIL SHEET
134	"	W1-6	48" X 24"	---	8	—	1	---	1	1	
135	"	S3-1	36" X 36"	---	9	—	---	1	1	1	
136	"	R2-1	24" X 30"	5.00	---	—	1	---	---	---	55 MPH
137	"	J4-1	—	---	---	—	---	---	1	1	
138	"	J4-1	24" X 36"	6.00	---	—	1	---	---	---	SEE PLAN SHEET
139	"	J13-1	24" X 45"	7.50	---	—	---	1	1	1	SEE PLAN SHEET
140	CTH T	J13-1	24" X 45"	7.50	---	—	---	1	1	1	SEE PLAN SHEET
SUBTOTALS				124.29	81.75	1	22	11	29	37	

3

ERECTION & REMOVAL OF PERMANENT SIGNING, TYPE II

SIGN NO.	LOCATION	SIGN CODE	W X H	637.2210 SIGNS TYPE II REFLECTIVE TYPE H SF	637.2230 SIGNS TYPE II REFLECTIVE TYPE F SF	638.2102 MOVING SIGNS TYPE II EACH	634.0614 POSTS WOOD 4x6x14 EACH	634.0616 POSTS WOOD 4x6x16 EACH	638.2602 REMOVING SIGNS TYPE II EACH	638.3000 REMOVING SMALL SIGN SUPPORTS EACH	COMMENTS
CAT 0010											
141	CTH T	R1-1	36" X 36"	7.46	---	---	---	1	1	1	
142	HWY H RD	R1-1	30" X 30"	5.18	---	---	1	---	1	1	
143	USH 10, E. CTH T	J13-1	24" X 45"	7.50	---	---	---	1	1	1	SEE PLAN SHEET
144	"	J4-1	24" X 36"	6.00	---	---	1	---	—	—	SEE PLAN SHEET
145	"	J4-1	---	—	---	---	---	---	1	1	
146	"	R2-1	24" X 30"	5.00	---	---	1	---	—	—	55 MPH
147	"	S3-1	36" X 36"	—	9	---	---	1	1	1	
148	"	W1-4L	30" X 30"	—	6.25	---	---	1	1	1	
149	"	W13-1	18" X 18"	—	2	---	---	---	—	—	MOUNT BELOW SIGN 148
150	"	D1-2	84" X 24"	14.00	---	---	2	---	1	2	SEE SIGN DETAIL SHEET
151	"	D1-1	72" X 15"	7.50	---	---	2	---	1	2	SEE SIGN DETAIL SHEET
152	"	J1-1	24" X 39"	6.50	---	---	---	1	1	1	SEE PLAN SHEET
153	"	W14-3	48" X 36"	—	6	---	---	1	1	1	
154	"	D1-1	78" X 15"	8.13	---	---	2	---	1	2	SEE SIGN DETAIL SHEET
155	FAIRWAY DR	R1-1	30" X 30"	5.18	---	---	1	---	1	1	
156	USH 10, E. OF FAIRWAY DR	D1-1	78" X 15"	8.13	---	---	2	---	1	2	SEE SIGN DETAIL SHEET
157	"	D1-1	78" X 15"	8.13	---	---	2	---	1	2	SEE SIGN DETAIL SHEET
158	"	W1-7	48" X 24"	—	8	---	1	---	1	1	
159	DANMAR RD	R1-1	30" X 30"	5.18	---	---	1	---	1	1	
160	USH 10, E. OF DANMAR DR	I55-56	30" X 36"	7.50	---	---	1	---	1	1	SEE PLAN SHEET
161		W54-51	--	—	--	---	--	---	1	1	
162		I55-56	---	—	---	---	---	---	1	1	
163		D1-1	78" X 15"	8.13	---	---	2	---	1	2	SEE SIGN DETAIL SHEET
164		W54-51	--	—	--	---	--	---	1	1	
165		D1-1	72" X 15"	7.50	---	---	2	---	1	2	SEE SIGN DETAIL SHEET
166		J4-1	---	—	---	---	---	---	1	1	
167		I2-3	54" X 24"	9.00	---	---	2	---	1	2	SEE SIGN DETAIL SHEET
168	VILLAGE DR	R1-1	30" X 30"	5.18	---	---	1	---	1	1	
169	USH 10, E. OF VILLAGE DR	W1-7	48" X 24"	—	8.00	---	1	---	1	1	
170		W14-3	48" X 36"	—	6	---	---	1	1	1	
171		W8-70	---	—	---	---	---	---	1	1	ALSO REMOVE W57-51
172		D1-61	90" X 24"	15.00	---	---	2	---	1	2	SEE SIGN DETAIL SHEET
173		D1-1	72" X 15"	7.50	---	---	2	---	1	2	SEE SIGN DETAIL SHEET
174		R7-53L	18" X 24"	3.00	---	---	1	---	1	1	
175		R7-53R	18" X 24"	3.00	---	---	1	---	1	1	
176	BRANCH RIVER RD	R1-1	30" X 30"	5.18	---	---	1	---	1	1	
177		R1-1	30" X 30"	5.18	---	---	1	---	1	1	
SUBTOTALS				170.06	45.50	0	33	7	34	44	
TOTALS				767.83	233.25	1	128	38	139	183	

TRAFFIC CONTROL ITEMS

			643.0300		643.0310.S	643.0410		643.0900		643.1050		
	LOCATION	STAGE DURATION DAYS	TRAFFIC CONTROL DRUMS NO.	DAY	TEMPORARY PORTABLE RUMBLE STRIPS LS	TRAFFIC CONTROL BARRICADES TYPE II NO.	DAY	TRAFFIC CONTROL SIGNS NO.	DAY	TRAFFIC CONTROL SIGNS PCMS NO.	DAY	COMMENTS
CAT 0010		100										
	53+45.5 - 323+50		270	27,000	–		--	10	1,000	1	7	EB & WB ADVANCED
	395+61.49 - 529+73.80		134	13,400		1	100	10	1,000	1	7	EB & WB ADVANCED
	SIDE ROADS		--	–	–		--	25	2,500		–	SIDE ROADS
	PROJECT		--	–	1		--		--		–	PROJECT
TOTALS				40,400	1		100		4,500		14	

LONG LINE PAVEMENT MARKING ITEMS

			646.0106		646.2308.S	646.2304.S			646.0406		
	STATION TO STATION		PAVEMENT MARKING EPOXY 4-INCH 12.5' LINE 37.5' SKIP YELLOW LF	SOLID YELLOW LF	PAVEMENT MARKING GROOVED WET REFLECTIVE EPOXY 8-INCH SOLID WHITE LF	PAVEMENT MARKING GROOVED WET REFLECTIVE EPOXY 4-INCH 3' LINE 9' SKIP WHITE LF	12.5' LINE 37.5' SKIP WHITE LF	SOLID WHITE LF	PAVEMENT MARKING SAME DAY EPOXY 4-INCH 12.5' LINE 37.5' SKIP YELLOW LF	SOLID YELLOW LF	COMMENTS
CAT 0010											
	53+18 -	328+50	4,906	30,080	200	828	--	50,277	4,906	30,080	EB AND WB LANES
	395+61 -	529+74	2,209	11,655	185	257	675	24,833	2,209	11,655	EB AND WB LANES
TOTALS			7,115	41,735	385	1,085	675	75,110	7,115	41,735	
			48,850			76,870			48,850		

3

LOCATING NO-PASSING ZONES

	STATION	TO	STATION	648.0100 LOCATING NO-PASSING ZONES MI
CAT 0010				
	53+18	-	328+50	6.04
	395+61	-	529+74	3.37
TOTALS				9.40

TEMPORARY PAVEMENT MARKING ITEMS

	STATION	TO	STATION	649.0402 TEMPORARY PAVEMENT MARKING PAINT 4-INCH 12.5' LINE 37.5' SKIP YELLOW CL LF	SOLID YELLOW CL LF	SOLID WHITE LF	COMMENTS
CAT 0010							
	53+45	-	328+50	9,812	60,155	51,000	MILLED AND LOWER LAYER
	65+16	-	65+45	--	70	128	CULVERT REPLACEMENT
	88+10	-	88+40	13	30	120	CULVERT REPLACEMENT
	107+34	-	107+66	13	32	128	CULVERT REPLACEMENT
	145+58	-	146+13	--	50	159	CULVERT REPLACEMENT
	207+22	-	207+52	13	30	119	CULVERT REPLACEMENT
	294+86	-	295+46	13	--	243	CULVERT REPLACEMENT
	365+61	-	529+74	4,418	23,310	25,000	MILLED AND LOWER LAYER
	420+92	-	421+26	--	68	136	CULVERT REPLACEMENT
TOTALS				14,280	83,745	77,033	
					175,058		

NOTES:
FOR ESTIMATING PURPOSES, CENTERLINE MARKING IS ASSUMED TO BE PLACED TWICE; EDGELINE MARKING IS ASSUMED TO BE PLACED ONCE.

3

CONSTRUCTION STAKING ITEMS

	STATION	TO	STATION	OFFSET	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	650.8000 CONSTRUCTION STAKING RESURFACING REFERENCE LF	650.9910 CONSTRUCTION STAKING SUPPLEMENTAL CONTROL (1500-66-71) LS	650.9920 CONSTRUCTION STAKING SLOPE STAKES LF	COMMENTS
CAT 0010												
	53+45	-	58+44	LT/RT	–	–	–	--	--	–	499	
	64+41	-	67+00	LT/RT	–	–	–	--	--	–	259	
	87+00	-	89+40	LT/RT	–	–	–	--	--	–	240	
	106+20	-	108+81	LT/RT	–	–	–	--	--	–	261	
	145+56		146+53	LT/RT	–	–	–	--	--	–	97	
	206+87		208+02	LT	–	–	–	--	--	–	115	
	207+00	-	207+75	RT	–	–	–	--	--	–	75	
	262+26	-	262+90	RT	–	–	98	--	--	–	--	BRODTKE RD
	263+24	-	263+65	RT	–	–	69	--	--	–	--	BRODTKE RD
	275+61		276+19	RT	–	–	90	--	--	–	--	CTH J
	276+61		276+99	RT	–	–	63	--	--	–	--	CTH J
	272+00	-	277+00	RT	360	360	–	--	--	–	500	TURN LANE
	294+25	-	295+75	LT/RT	–	–	–	--	--	–	150	
	394+73	-	400+89	LT	–	–	–	--	--	–	616	
	420+00	-	422+00	LT/RT	–	–	–	--	--	–	200	
	428+00	-	435+85	RT	–	–	–	--	--	–	785	
	437+07	-	446+00	LT	–	–	–	--	--	–	893	
	PROJECT			–	–	–	–	11	40,420	1	--	
TOTALS					360	360	320	11	40,420	1	4,690	

SAWING

STATION	TO	STATION	OFFSET	690.0150 SAWING ASPHALT LF	690.0250 SAWING CONCRETE LF	COMMENTS
CAT 0010						
	53+45		LT/RT	48	--	BEGIN PROJECT
	65+11		LT/RT	30	--	CULVERT
	65+46		LT/RT	30	--	CULVERT
	78+75		LT	24		GROVE RD
	88+10		LT/RT	30	--	CULVERT
	88+40		LT/RT	30	--	CULVERT
	105+20		LT	28		MAERTZ RD
	107+34		LT/RT	30	--	CULVERT
	107+66		LT/RT	30	--	CULVERT
	108+24		RT	23	--	ROCKY LEDGE LN
	143+00		LT	25	--	STEINBERG LN
	145+88		LT/RT	30	--	CULVERT
	146+13		LT/RT	30	--	CULVERT
	164+38		LT	33	--	CTH G
	164+53		RT	33	--	GRIMMS RD
	202+13		RT	36	--	DRIVEWAY
	203+64		RT	30	--	DRIVEWAY
	207+22		LT/RT	30	--	CULVERT
	207+52		LT/RT	30	--	CULVERT
	223+00		LT	31	--	MENCHALVILLE RD
	223+34		RT	33	--	MENCHALVILLE RD
	242+93		LT	24	--	FRITSCH LN
262+00	-	263+65	RT	110	3	BRODTKE RD CURB
	263+09		LT	30	--	BRODTKE RD
	266+00		LT	25	--	PAINTER LN
	273+00		RT	25	--	DRIVEWAY
272+00	-	276+99	RT	587	3	CTH J
	276+42		LT	31	3	CTH J
	294+86		LT/RT	31	--	CULVERT
	295+43		LT/RT	31	--	CULVERT
	302+50		RT	23	--	LEMBERGER LN
	323+50		LT/RT	30	--	END CONSTRUCTION
394+73	-	395+61	LT	--	91	USH 10
	401+10		LT	25	--	DRIVEWAY
	405+20		LT	25	--	DRIVEWAY
	407+50		LT	29	--	TUSCHL LN
	409+60		RT	18	--	BOOMER LN
	420+92		LT/RT	30	--	CULVERT
	422+80		RT	25	--	DRIVEWAY
	421+26		LT/RT	30	--	CULVERT
	431+70		RT	15	--	DRIVEWAY
	436+45		LT	15	--	CTH T
	436+45		RT	29	--	HIGHWAY H RD
	460+05		RT	20	--	DRIVEWAY
	475+12		LT	25	--	DRIVEWAY
	482+90		RT	30	--	FAIRWAY DR
	489+22		RT	30	--	DANMAR RD
	496+40		RT	35	--	DRIVEWAY
	515+95		LT	33	--	VILLAGE DR
	529+00		LT	31	--	BRANCH RIVER RD
	529+40		RT	34	--	BRANCH RIVER RD
	529+73		LT/RT	50	--	END PROJECT
TOTALS				2,120	100	

CRACK AND DAMAGE SURVEY

LOCATION	999.1500.S CRACK AND DAMAGE SURVEY (432+00 RT) LS
CAT 0010	
432+00 RT	1
TOTALS	1

DEPARTMENT COMPOSITE, ORIGINAL LOCATED AT THE REGISTER OF DEEDS OFFICE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

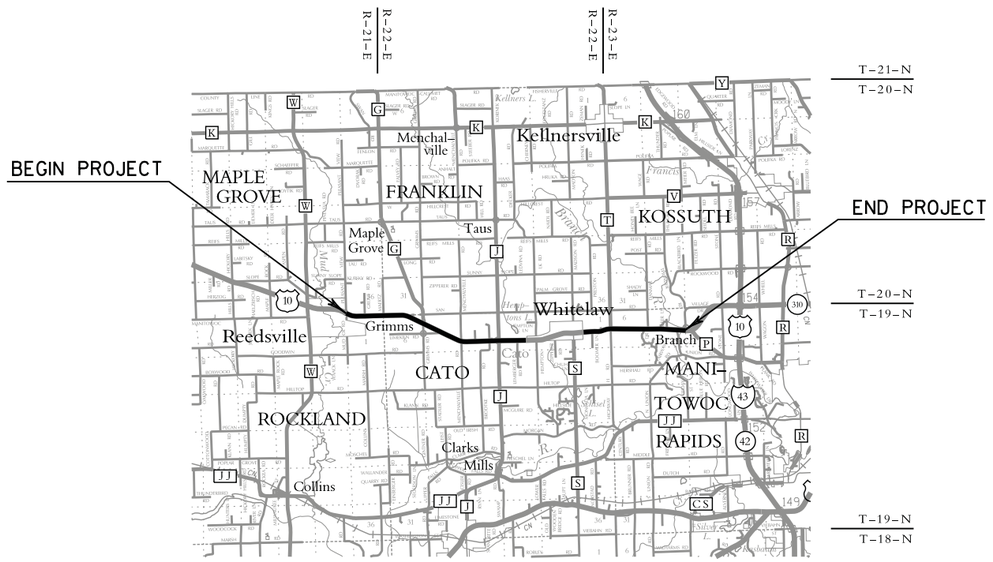
TRANSPORTATION PROJECT PLAT TITLE SHEET

PROJECT NO. 1500-33-21

EAST VILLAGE LIMITS - BRANCH RIVER

USH 10

MANITOWOC COUNTY



LAYOUT
SCALE 0 2 MI.

NOTES:

POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COUNTY COORDINATES, MANITOWOC COUNTY, NAD83(2011) IN U.S. 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 (TYPICALLY 1" X 24" IRON PIPES) AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT.

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

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

SECTION LINE NOT COINCIDENT WITH REFERENCE LINE.

EXISTING HIGHWAY RIGHT-OF-WAY SHOWN HEREIN IS BASED ON THE FOLLOWING POINTS OF REFERENCE:
EXISTING HIGHWAY RIGHT-OF-WAY FOR USH 10 ESTABLISHED FROM PREVIOUS PROJECTS 1508-5-21, 1508-2-00, 1500-3-21, 1500-8-21, 1500-8-22, DIV JOB NO. 3800, STATE AID PROJECT NO. 3191, FEDERAL AID PROJECT NO. 424-B, CSM V 8 P 187, CSM V 3 P 417, CSM V 11 P 289, CSM V 7 P 395, CSM V 8 P 625, CSM V 8 P 637, AND EXISTING CENTERLINE.
EXISTING HIGHWAY RIGHT-OF-WAY FOR PLEASANT VIEW RD, MID CREEK RD, MANITOWOC ST, GROVE RD, MAERTZ RD, STEINBERG LN, VERNON RD, GRIMMS RD, AND LIME KILN RD, ESTABLISHED FROM PREVIOUS PROJECT 1500-8-21 AND EXISTING CENTERLINE.
EXISTING HIGHWAY RIGHT-OF-WAY FOR ROCKY LEDGE RD ESTABLISHED FROM PREVIOUS PROJECT 1500-8-21, CSM V 7 P 395, CSM V 8 P 625 AND EXISTING CENTERLINE.
EXISTING HIGHWAY RIGHT-OF-WAY FOR CTH G ESTABLISHED FROM PREVIOUS PROJECT 1500-8-21, CSM V 9 P 171 AND EXISTING CENTERLINE.
EXISTING HIGHWAY RIGHT-OF-WAY FOR MENCHALVILLE RD ESTABLISHED FROM PREVIOUS PROJECTS 1500-8-21, 1500-8-22, AND EXISTING CENTERLINE.
EXISTING HIGHWAY RIGHT-OF-WAY FOR FRITSCH LN, BRODTKE RD, PAINTER LN, ELEVATOR RD, AND LEMBERGER LN, ESTABLISHED FROM PREVIOUS PROJECT 1500-8-22 AND EXISTING CENTERLINE.
EXISTING HIGHWAY RIGHT-OF-WAY FOR CTH J ESTABLISHED FROM PREVIOUS PROJECTS 1508-5-21, 1500-8-22, 1508-2-71, AND EXISTING CENTERLINE.
EXISTING HIGHWAY RIGHT-OF-WAY FOR WALTERS LN, CTH T, AND HWY H RD, ESTABLISHED FROM PREVIOUS PROJECTS 1500-8-22, 1500-3-21, AND EXISTING CENTERLINE.

EXISTING ACCESS CONTROL ALONG USH 10 ESTABLISHED FROM PREVIOUS PROJECTS 1500-8-21 AND 1500-8-22.

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 TLES EXPIRE AT THE COMPLETION OF THE CONSTRUCTION PROJECT FOR WHICH THIS INSTRUMENT IS GIVEN.

CONVENTIONAL ABBREVIATIONS

ACCESS POINT/ DRIVEWAY CONNECTION	AP	REFERENCE LINE	R/L
ACCESS RIGHTS	AR	RELEASE OF RIGHTS	ROR
ACRES	AC	REMAINING	REM
AND OTHERS	ET AL	RIGHT-OF-WAY	R/W
CENTERLINE	C/L	SECTION	SEC
CERTIFIED SURVEY MAP	CSM	STATION	STA
CORNER	COR	TEMPORARY LIMITED EASEMENT	TLE
DOCUMENT	DOC	VOLUME	V
EASEMENT	EASE	**CURVE DATA**	
HIGHWAY EASEMENT	H E	LONG CHORD	LCH
LAND CONTRACT	LC	LONG CHORD BEARING	LCB
MONUMENT	MON	RADIUS	R
PAGE	P	DEGREE OF CURVE	D
PERMANENT LIMITED EASEMENT	PLE	CENTRAL ANGLE OR DELTA	DELTA
PROPERTY LINE	PL	LENGTH OF CURVE	L
RECORDED AS	(100')	TANGENT	TAN

CONVENTIONAL SYMBOLS

FOUND IRON PIPE/PIN	IP (1" UNLESS NOTED)	PROPOSED R/W LINE	
		EXISTING H E LINE	
R/W MONUMENT	•(SET)	PROPERTY LINE	
R/W STANDARD	▲(SET)	LOT & TIE LINES	
SIGN	ISIGN	SLOPE INTERCEPTS	
SECTION CORNER MONUMENT		CORPORATE LIMITS	
SECTION CORNER SYMBOL		ACCESS RESTRICTED (BY PREVIOUS ACQUISITION/CONTROL)	
FEE (HATCH VARIES)		ACCESS RESTRICTED (BY ACQUISITION)	
TEMPORARY LIMITED EASEMENT		NO ACCESS (BY STATUTORY AUTHORITY)	
PERMANENT LIMITED EASEMENT		SECTION LINE	
R/W BOUNDARY POINT		QUARTER LINE	
PARCEL NUMBER	RWB20	SIXTEENTH LINE	
UTILITY PARCEL NUMBER	102	EXISTING CENTERLINE	
SIGN NUMBER (OFF PREMISE)	92	PROPOSED REFERENCE LINE	
BUILDING	21-1	PARALLEL OFFSET	
GEODETIC MONUMENT			

CONVENTIONAL UTILITY SYMBOLS

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

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1500-33-21 - 4.01
SHEET 2 OF 2
AMENDMENT NO:

FILE NAME : P:\48xx\4816.DP.13.USH 10.MAN\CADDS\Plan\TPP\040100_rp.dgn
PLOT DATE : 2/3/2016
PLOT BY : tgr
PLOT NAME :
PLOT SCALE : 1:100

1500-33-21 4.01

DEPARTMENT COMPOSITE, ORIGINAL LOCATED AT THE REGISTER OF DEEDS OFFICE

TRANSPORTATION PROJECT PLAT NO: 1500-33-21 - 4.01 AMENDMENT NO. 1

AMENDS PARCEL NO: 1 OF TRANSPORTATION PROJECT PLAT 1500-33-21-4.01 RECORDED AS DOCUMENT NO: 1165117. THAT PART OF TRACT 1 OF CSM V 8 P 187 DOC NO 537699, LOCATED IN AND PART OF THE NE1/4 OF THE FRACTIONAL NW1/4, ALSO THAT PART OF THE NW1/4 OF THE FRACTIONAL NW1/4, ALL IN SECTION 1, TOWNSHIP 19 NORTH, RANGE 21 EAST, TOWN OF ROCKLAND, MANITOWOC COUNTY, WISCONSIN

RELOCATION ORDER USH 10 MANITOWOC COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3), 84.09 AND 84.30, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:
1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE DEPARTMENT FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE STATE OF WISCONSIN, PURSUANT TO THE PROVISIONS OF SECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

DOC # 1167763
VOL. 9 I 167 PG 763
PLAT
2016 MAY 4 @ 9:00AM
TRANSPORTATION PROJECT PLAT 1500-33-21-4.01 AMENDMENT NO 1

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1500-33-21-4.01
AMENDMENT NO: 1

SCHEDULE OF LANDS & INTERESTS REQUIRED

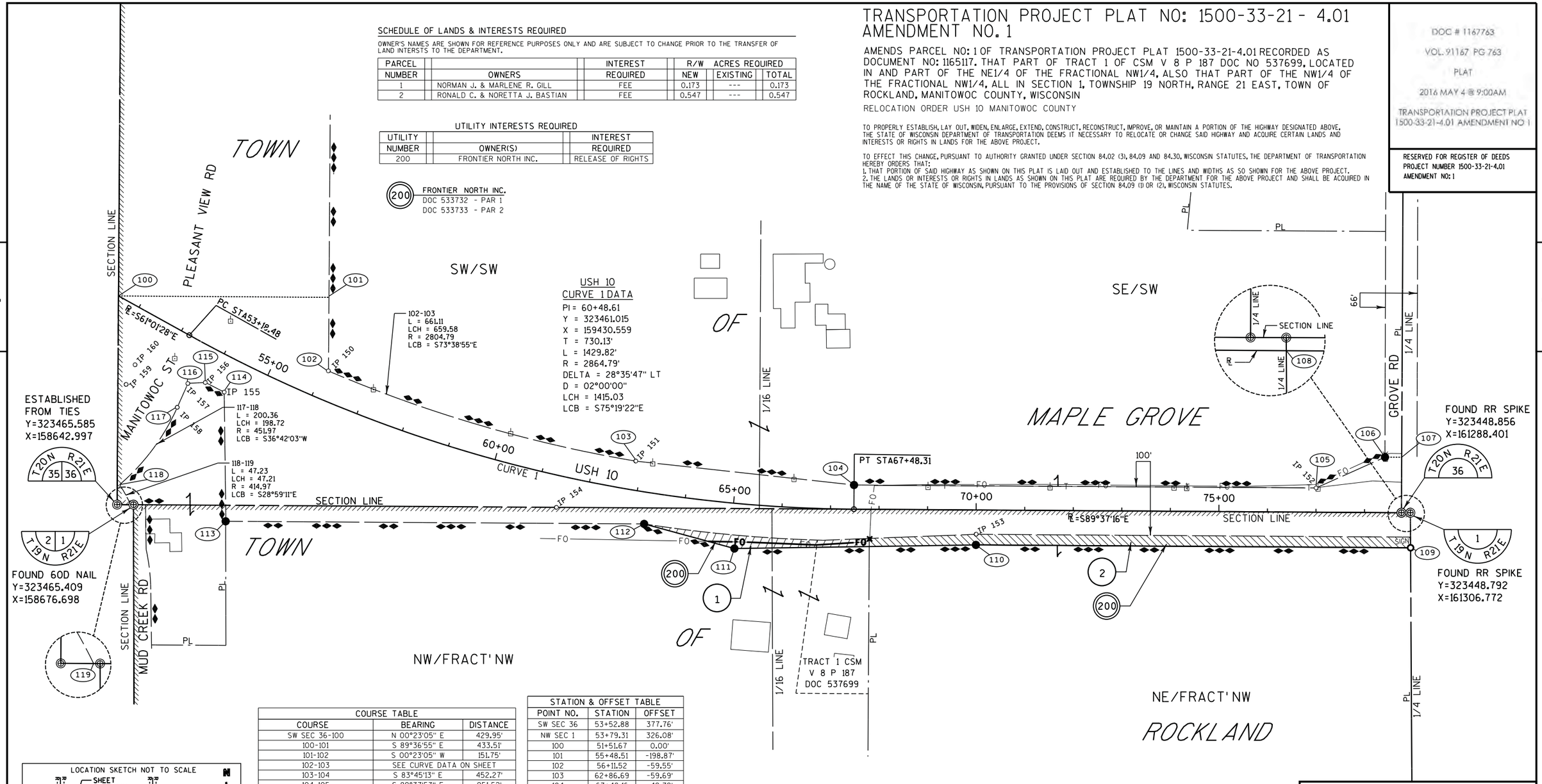
OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERSTS TO THE DEPARTMENT.

PARCEL NUMBER	OWNERS	INTEREST REQUIRED	R/W ACRES REQUIRED NEW	EXISTING	TOTAL
1	NORMAN J. & MARLENE R. GILL	FEE	0.173	---	0.173
2	RONALD C. & NORETTA J. BASTIAN	FEE	0.547	---	0.547

UTILITY INTERESTS REQUIRED

UTILITY NUMBER	OWNER(S)	INTEREST REQUIRED
200	FRONTIER NORTH INC.	RELEASE OF RIGHTS

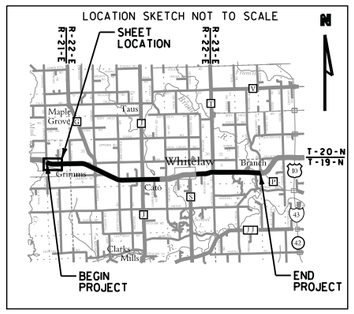
200 FRONTIER NORTH INC.
DOC 533732 - PAR 1
DOC 533733 - PAR 2



COURSE TABLE		
COURSE	BEARING	DISTANCE
SW SEC 36-100	N 00°23'05" E	429.95'
100-101	S 89°36'55" E	433.51'
101-102	S 00°23'05" W	151.75'
102-103	SEE CURVE DATA ON SHEET	
103-104	S 83°45'13" E	452.27'
104-105	S 89°37'53" E	951.52'
105-106	N 65°55'36" E	155.61'
106-107	S 89°44'01" E	34.50'
107-S 1/4 SEC 36	S 00°16'00" W	114.31'
S 1/4 SEC 36-N 1/4 SEC 1	S 89°48'01" E	18.37'
N 1/4 SEC 1-108	S 00°19'01" E	0.19'
108-109	S 00°19'01" E	72.01'
109-110	N 89°37'16" W	895.30'
110-111	S 89°08'18" W	497.57'
111-112	N 74°44'11" W	192.59'
112-113	N 89°38'19" W	861.49'
113-114	N 00°46'16" W	266.28'
114-115	N 62°56'11" W	43.61'
115-116	S 87°01'22" W	35.74'
116-117	S 24°00'05" W	54.03'
117-118	SEE CURVE DATA ON SHEET	
118-119	SEE CURVE DATA ON SHEET	
119-SW SEC 36	N 89°42'03" W	28.14'

STATION & OFFSET TABLE		
POINT NO.	STATION	OFFSET
SW SEC 36	53+52.88	377.76'
NW SEC 1	53+79.31	326.08'
100	51+51.67	0.00'
101	55+48.51	-198.87'
102	56+11.52	-59.55'
103	62+86.69	-59.69'
104	67+48.16	-49.79'
105	76+99.68	-49.96'
106	78+41.34	-114.38'
107	78+75.83	-114.44'
S 1/4 SEC 36	78+76.06	-0.13'
N 1/4 SEC 1	78+94.43	-0.19'
108	78+94.43	0.00'
109	78+95.30	72.00'
110	70+00.00	72.00'
111	65+10.00	93.00'
112	63+24.51	65.31'
113	55+45.41	309.29'
114	54+35.20	70.30'
115	53+92.63	70.31'
116	53+62.75	88.59'
117	53+66.42	142.49'
118	53+39.59	339.07'
119	53+74.93	364.65'

EXISTING MONUMENTS			
POINT	Y (NORTHING)	X (EASTING)	DESCRIPTION
IP 150	323741.206	159078.153	1.25" OD IP
IP 151	323555.375	159711.302	1.25" OD IP
IP 152	323499.897	161112.575	1.25" OD IP
IP 153	323404.512	160412.387	1.25" OD IP
IP 154	323459.865	159547.806	1.25" OD IP
IP 155	323697.430	158863.527	0.75" IRON ROD
IP 156	323717.113	158824.543	0.75" IRON ROD
IP 157	323715.188	158788.698	0.75" IRON ROD
IP 158	323666.095	158766.870	0.75" IRON ROD
IP 159	323713.234	158661.534	0.75" IRON ROD
IP 160	323753.742	158679.945	0.75" IRON ROD



SCALE, FEET
0 100 200

GN

Refer to the Title Sheet, recorded as Sheet 2 of 2, in Cabinet D of Plats, Jacket 70, as Document No. 1165117 for additional information

FOR THE LATEST ACCESS/DRIVEWAY INFORMATION CONTACT THE PLANNING DEPARTMENT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE IN GREEN BAY

emcs.inc

I, KEVIN C. BOYER, PROFESSIONAL LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE DEPARTMENT, I HAVE SURVEYED TRANSPORTATION PROJECT PLAT 1500-33-21-4.01 AMENDMENT NO. 1 AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

Kevin C. Boyer DATE: 4/27/2016
KEVIN C. BOYER

WISCONSIN KEVIN C BOYER S-2675 HEWITT WI LAND SURVEYOR

PROFESSIONAL LAND SURVEYOR NUMBER 2675
THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION

Curt Uhrlein DATE: 4/28/2016
(SIGNATURE)
(PRINTED NAME) CURT UHRLEIN

FILE NAME : P:\48xx\4816.DP.13.USH 10.MAN\CADDS\Plan\TPP\040101_rp_A1.dgn
APPRAISAL PLAT DATE :
PLOT DATE : 4/27/2016
PLOT BY : kcb
PLOT NAME :
PLOT SCALE : 1:100

1500-33-21-4.01 A1

DEPARTMENT COMPOSITE, ORIGINAL LOCATED AT THE REGISTER OF DEEDS OFFICE

TRANSPORTATION PROJECT PLAT NO: 1500-33-21 - 4.01

THAT PART OF TRACT 1 OF CSM V 8 P 187 DOC NO 537699, LOCATED IN AND PART OF THE NE1/4 OF THE FRACTIONAL NW1/4, ALSO THAT PART OF THE NW1/4 OF THE FRACTIONAL NW1/4, ALL IN SECTION 1, TOWNSHIP 19 NORTH, RANGE 21 EAST, TOWN OF ROCKLAND, MANITOWOC COUNTY, WISCONSIN

RELOCATION ORDER USH 10 MANITOWOC COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3), 84.09 AND 84.30, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:
1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE DEPARTMENT FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE STATE OF WISCONSIN, PURSUANT TO THE PROVISIONS OF SECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

Doc# 1165117
REGISTERS OFFICE MANITOWOC COUNTY, WI
RECEIVED FOR RECORD
2016 FEB 9 09:33:00am
Cabinet D Plats Added 20
PRESTON F. JONES, REGISTER

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1500-33-21-4.01
AMENDMENT NO:
SHEET 1 OF 2

SCHEDULE OF LANDS & INTERESTS REQUIRED

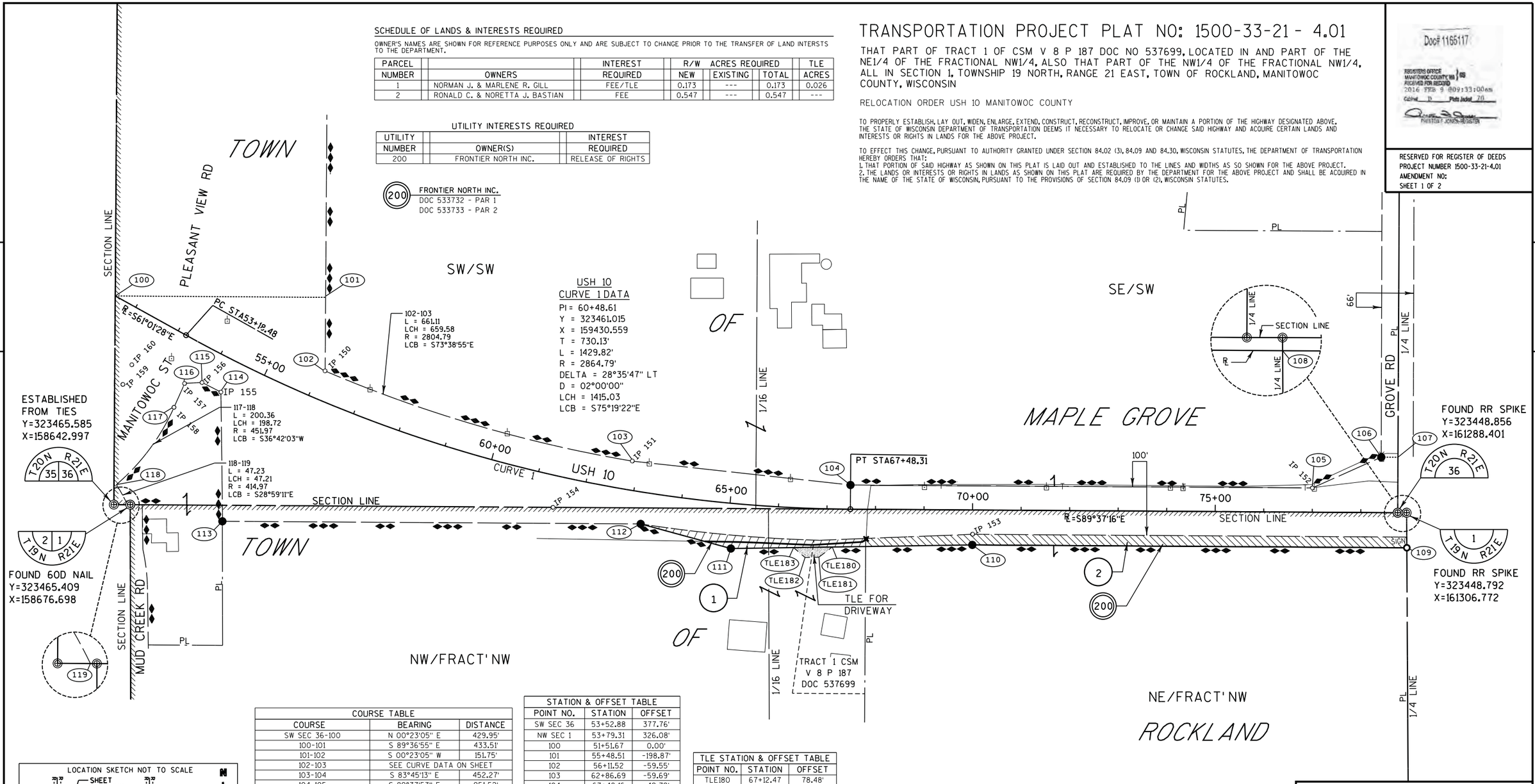
OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERSTS TO THE DEPARTMENT.

PARCEL NUMBER	OWNERS	INTEREST REQUIRED	R/W ACRES REQUIRED NEW	EXISTING	TOTAL	TLE ACRES
1	NORMAN J. & MARLENE R. GILL	FEE/TLE	0.173	---	0.173	0.026
2	RONALD C. & NORETTA J. BASTIAN	FEE	0.547	---	0.547	---

UTILITY INTERESTS REQUIRED

UTILITY NUMBER	OWNER(S)	INTEREST REQUIRED
200	FRONTIER NORTH INC.	RELEASE OF RIGHTS

200 FRONTIER NORTH INC.
DOC 533732 - PAR 1
DOC 533733 - PAR 2



COURSE TABLE

COURSE	BEARING	DISTANCE
SW SEC 36-100	N 00°23'05" E	429.95'
100-101	S 89°36'55" E	433.51'
101-102	S 00°23'05" W	151.75'
102-103	SEE CURVE DATA ON SHEET	
103-104	S 83°45'13" E	452.27'
104-105	S 89°37'53" E	951.52'
105-106	N 65°55'36" E	155.61'
106-107	S 89°44'01" E	34.50'
107-S 1/4 SEC 36	S 00°16'00" W	114.31'
S 1/4 SEC 36-N 1/4 SEC 1	S 89°48'01" E	18.37'
N 1/4 SEC 1-108	S 00°19'01" E	0.19'
108-109	S 00°19'01" E	72.01'
109-110	N 89°37'16" W	895.30'
110-111	S 89°08'18" W	497.57'
111-112	N 74°44'11" W	192.59'
112-113	N 89°38'19" W	861.49'
113-114	N 00°46'16" W	266.28'
114-115	N 62°56'11" W	43.61'
115-116	S 87°01'22" W	35.74'
116-117	S 24°00'05" W	54.03'
117-118	SEE CURVE DATA ON SHEET	
118-119	SEE CURVE DATA ON SHEET	
119-SW SEC 36	N 89°42'03" W	28.14'

STATION & OFFSET TABLE

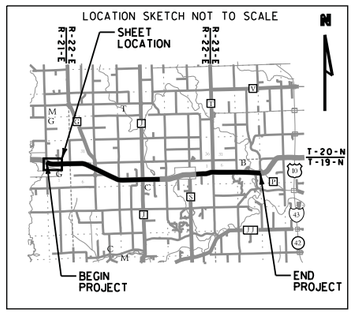
POINT NO.	STATION	OFFSET
SW SEC 36	53+52.88	377.76'
NW SEC 1	53+79.31	326.08'
100	51+51.67	0.00'
101	55+48.51	-198.87'
102	56+11.52	-59.55'
103	62+86.69	-59.69'
104	67+48.16	-49.79'
105	76+99.68	-49.96'
106	78+41.34	-114.38'
107	78+75.83	-114.44'
S 1/4 SEC 36	78+76.06	-0.13'
N 1/4 SEC 1	78+94.43	-0.19'
108	78+94.43	0.00'
109	78+95.30	72.00'
110	70+00.00	72.00'
111	65+10.00	93.00'
112	63+24.51	65.31'
113	55+45.41	309.29'
114	54+35.20	70.30'
115	53+92.63	70.31'
116	53+62.75	88.59'
117	53+66.42	142.49'
118	53+39.59	339.07'
119	53+74.93	364.65'

TLE STATION & OFFSET TABLE

POINT NO.	STATION	OFFSET
TLE180	67+12.47	78.48'
TLE181	66+86.22	100.11'
TLE182	66+58.65	101.72'
TLE183	66+34.91	82.28'

EXISTING MONUMENTS

POINT	Y (NORTHING)	X (EASTING)	DESCRIPTION
IP 150	323741.206	159078.153	1.25" OD IP
IP 151	323555.375	159711.302	1.25" OD IP
IP 152	323499.897	161112.575	1.25" OD IP
IP 153	323404.512	160412.387	1.25" OD IP
IP 154	323459.865	159547.806	1.25" OD IP
IP 155	323697.430	158863.527	0.75" IRON ROD
IP 156	323717.113	158824.543	0.75" IRON ROD
IP 157	323715.188	158788.698	0.75" IRON ROD
IP 158	323666.095	158766.870	0.75" IRON ROD
IP 159	323713.234	158661.534	0.75" IRON ROD
IP 160	323753.742	158679.945	0.75" IRON ROD



SCALE, FEET
0 100 200

GN

Refer to the Title Sheet, recorded as Sheet 2 of 2 for additional information

FOR THE LATEST ACCESS/DRIVEWAY INFORMATION CONTACT THE PLANNING DEPARTMENT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE IN GREEN BAY

emcs.inc

I, KEVIN C. BOYER, PROFESSIONAL LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE DEPARTMENT, I HAVE SURVEYED TRANSPORTATION PROJECT PLAT 1500-33-21-4.01 AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

Kevin C. Boyer DATE: 2/2/2016
KEVIN C. BOYER
PROFESSIONAL LAND SURVEYOR NUMBER 2675
THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION

KEVIN C BOYER S-2675 NEWTT WI LAND SURVEYOR

(SIGNATURE) DATE: 2/4/2016
(PRINTED NAME) CUR

FILE NAME : P:\48xx\4816.DP.13.USH 10.MAN\CADDS\Plan\TPP\040101_rp.dgn
APPRAISAL PLAT DATE :
PLOT DATE : 2/3/2016 PLOT BY : tgr PLOT NAME : PLOT SCALE : 1:100

1500-33-21-4.01

DEPARTMENT COMPOSITE, ORIGINAL LOCATED AT THE REGISTER OF DEEDS OFFICE

SCHEDULE OF LANDS & INTERESTS REQUIRED

OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERSTS TO THE DEPARTMENT.

PARCEL NUMBER	OWNERS	INTEREST REQUIRED	R/W ACRES REQUIRED NEW	EXISTING	TOTAL
3	WALLACE A. & FAYE A. RUSCH	FEE	1.211	---	1.211
19	JUDY K. BOETTCHER, JEFFREY J. HILLMANN, JOY A. BOLDA AND JANE L.	FEE	0.025	---	0.025

FOR THE LATEST ACCESS/DRIVEWAY INFORMATION CONTACT THE PLANNING DEPARTMENT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE IN GREEN BAY

UTILITY INTERESTS REQUIRED

UTILITY NUMBER	OWNER(S)	INTEREST REQUIRED
200	FRONTIER NORTH INC.	RELEASE OF RIGHTS

(200) FRONTIER NORTH INC.
DOC 712425 - PAR 19
DOC 533298 - PAR 3
DOC 533729 - PAR 3

TRANSPORTATION PROJECT PLAT NO: 1500-33-21 - 4.02

THAT PART OF TRACT 1 AND 2 OF CSM V 3 P 417 DOC NO 448338 LOCATED IN AND PART OF THE NE1/4 OF THE FRACTIONAL NE1/4 AND PART OF THE NW1/4 OF THE FRACTIONAL NE1/4, OF SECTION 1, TOWNSHIP 19 NORTH, RANGE 21 EAST, TOWN OF ROCKLAND, ALSO LOCATED IN AND PART OF THE SW1/4 OF THE SE1/4 OF SECTION 36, TOWNSHIP 20 NORTH, RANGE 21 EAST, TOWN OF MAPLE GROVE, ALL IN MANITOWOC COUNTY, WISCONSIN

RELOCATION ORDER USH 10 MANITOWOC COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3), 84.09 AND 84.30, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:
1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE DEPARTMENT FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE STATE OF WISCONSIN, PURSUANT TO THE PROVISIONS OF SECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

DOC # 1165495
VOL. 9 1165 PG. 495

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1500-33-21-4.02
AMENDMENT NO:

STATION & OFFSET TABLE		
POINT NO.	STATION	OFFSET
S 1/4 SEC 36	78+76.06	-0.13'
200	78+75.83	-115.55'
201	79+07.33	-115.61'
202	80+50.53	-50.03'
203	85+00.19	-50.11'
204	87+80.00	-52.96'
205	88+15.00	-73.00'
206	88+35.00	-73.00
207	88+70.00	-53.87'
208	90+00.19	-55.20'
209	103+37.51	-55.44'
210	104+84.66	-133.13'
211	105+21.22	-133.24'
NE SEC 1	105+21.63	-0.29'
212	105+21.63	0.00'
213	105+22.81	80.98'
214	102+00.00	79.72'
215	100+00.00	72.00'
216	98+00.00	72.00'
217	96+00.57	80.00'
218	89+00.00	80.00'
219	87+00.00	72.00'
220	78+95.30	72.00'
221	78+94.43	0.00'
N 1/4 SEC 1	78+94.43	-0.19'

TOWN

SW/SE

SE/SE

NW/FRACT'NE

NE/FRAC'T NE

ROCKLAND

MAPLE GROVE

OF

1/16 LINE

1/4 LINE

SECTION LINE

PL

99'

66'

100'

VARIES

GROVE RD

MAERTZ RD

TRACT 1
CSM
V 15 P 193
DOC 698839

TRACT 1
CSM
V 3 P 417
DOC 448338

TRACT 2
CSM
V 3 P 417
DOC 448338

TRACT A
CSM
V 3 P 417
DOC 448338

66' INGRESS/EGRESS EASEMENT
V 859 P 208
DOC 650328

USH 10

R=589°37'16"E

FOUND RR SPIKE
Y=323448.856
X=161288.401

FOUND RR SPIKE
Y=323448.792
X=161306.772

FOUND RR SPIKE
Y=323431.521
X=163933.913

80+00 85+00 90+00 95+00 100+00 105+00

IP 250 IP 251 IP 252 IP 253 IP 254

T20N R21E 36

T19N R21E 1

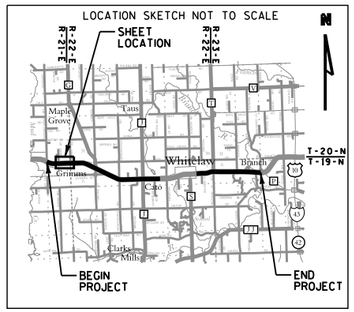
T20N R22E 31

T19N R22E 6

EXISTING MONUMENTS			
POINT	Y (NORTHING)	X (EASTING)	DESCRIPTION
IP 250	323497.569	161463.235	1.25" OD IP
IP 251	323494.707	161912.951	1.25" OD IP
IP 252	323496.466	162412.872	1.25" OD IP
IP 253	323487.881	163750.284	1.25" OD IP
IP 254	323573.635	163901.741	0.75" IRON ROD

COURSE TABLE		
COURSE	BEARING	DISTANCE
S 1/4 SEC 36-200	N 00°16'00" E	115.42'
200-201	S 89°44'01" E	31.50'
201-202	S 65°00'50" E	157.50'
202-203	S 89°37'53" E	449.67'
203-204	N 89°47'44" E	279.82'
204-205	N 60°34'56" E	40.33'
205-206	S 89°37'16" E	20.00'
206-207	S 60°58'01" E	39.88'
207-208	N 89°47'44" E	130.20'
208-209	S 89°37'53" E	1337.32'
209-210	N 62°32'55" E	166.39'
210-211	S 89°47'42" E	36.57'
211-NE SEC 1	S 00°12'18" W	132.95'
NE SEC 1-212	S 00°27'16" E	0.29'
212-213	S 00°27'16" E	80.99'
213-214	N 89°23'52" W	322.81'
214-215	N 87°24'37" W	200.15'
215-216	N 89°37'16" W	200.00'
216-217	S 88°04'55" W	199.59'
217-218	N 89°37'16" W	700.57'
218-219	N 87°19'50" W	200.16'
219-220	N 89°37'16" W	804.70'
220-221	N 00°19'01" W	72.01'
221-N 1/4 SEC 1	N 00°19'01" W	0.19'
N 1/4 SEC 1-S1/4 SEC 36	N 89°48'01" W	18.37'

LOCATION SKETCH NOT TO SCALE



GN

SCALE, FEET
0 100 200

Refer to the Title Sheet, recorded as Sheet 2 of 2, in Cabinet D of Plats, Jacket 70, as Document No. 1165117 for additional information

emcs.inc

I, KEVIN C. BOYER, PROFESSIONAL LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE DEPARTMENT, I HAVE SURVEYED TRANSPORTATION PROJECT PLAT 1500-33-21-4.02 AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

Kevin C. Boyer DATE: 2/10/2016
KEVIN C. BOYER
PROFESSIONAL LAND SURVEYOR NUMBER 2675
THIS PLAT AND RELOCATION ORDER ARE
APPROVED FOR THE WISCONSIN DEPARTMENT
OF TRANSPORTATION
(SIGNATURE) DATE: 2/16/2016
(PRINTED NAME) CURT 53

WISCONSIN KEVIN C BOYER S-2675 HEWITT WI LAND SURVEYOR

1500-33-21-4.02

FILE NAME : P:\48xx\4816.DP.13.USH 10.MAN\CADDS\Plan\TPP\040102_rp.dgn
APPRAISAL PLAT DATE : 08/31/2015
PLOT DATE : 2/10/2016 PLOT BY : kcb PLOT NAME : PLOT SCALE : 1:100

DEPARTMENT COMPOSITE, ORIGINAL LOCATED AT THE REGISTER OF DEEDS OFFICE

TRANSPORTATION PROJECT PLAT NO: 1500-33-21 - 4.03 AMENDMENT NO. 3

AMENDS UTILITY NUMBER 200 OF TRANSPORTATION PROJECT PLAT 1500-33-21-4.03 AMENDMENT NO: 2, RECORDED AS DOCUMENT NO: 1172799.
THAT PART OF TRACT 4 OF CSM V 11 P 289 DOC NO 626587, TRACT 1 OF CSM V 7 P 395 DOC NO 525328, TRACT 3 OF CSM V 8 P 625 DOC NO 548311, AND TRACT 2 CSM V 8 P 623 DOC 548310 LOCATED IN AND PART OF THE NW1/4 OF THE FRACTIONAL NW1/4, PART OF THE NE1/4 OF THE FRACTIONAL NW1/4 OF SECTION 6, TOWNSHIP 19 NORTH, RANGE 22 EAST, TOWN OF CATO, ALSO THAT PART OF THE SW1/4 OF THE SW1/4 OF SECTION 31, TOWNSHIP 20 NORTH, RANGE 22 EAST, TOWN OF FRANKLIN, ALL IN MANITOWOC COUNTY, WISCONSIN

RELOCATION ORDER USH 10 MANITOWOC COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3), 84.09 AND 84.30, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:
1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE DEPARTMENT FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE STATE OF WISCONSIN, PURSUANT TO THE PROVISIONS OF SECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

doc# 1180196
REGISTERS OFFICE
MANITOWOC COUNTY, WI
RECEIVED FOR RECORD
2017 APR 25 @ 9:50 AM
PLAT CABINET D JKT 84
KRISTI VOLKMANN, REGISTER OF DEEDS

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1500-33-21-4.03
AMENDMENT NO: 3

SCHEDULE OF LANDS & INTERESTS REQUIRED

OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERSTS TO THE DEPARTMENT.

PARCEL NUMBER	OWNERS	INTEREST REQUIRED	R/W ACRES REQUIRED NEW	EXISTING	TOTAL
4	BRYAN D. BERKHOLTZ, LISA M. NATE & ERIN B. CLAUSEN, AS TRUSTEES OF THE DANIEL H. & MARGARET N. BERKHOLTZ IRREVOCABLE TRUST DATED JULY 16, 2015	FEE	0.352	---	0.352
5	LEE A. MAERTZ	FEE	0.054	---	0.054
6	DANIEL H. BERKHOLTZ & KAREN GRALL	FEE	0.071	---	0.071
7	DANIEL J. & ANGELA M. SCHAMBURECK	FEE	0.017	---	0.017
8	L&S FARMS, LTD.	FEE	0.043	---	0.043
9	DANIEL BERKHOLTZ & MARGARET BERKHOLTZ	FEE	0.034	---	0.034
10	JOHN E. & THERESA A. WORACHEK REVOCABLE TRUST	FEE	0.013	---	0.013

THE AREA SHOWN IN THE SCHEDULE OF LANDS AND INTERESTS IS ONLY THE AREA OF PARCEL SHOWN ON THIS SHEET. IF THE PARCEL IS ON MULTIPLE SHEETS, REFERENCE THE OTHER SHEET(S) FOR ADDITIONAL PARCEL AREAS.

COURSE TABLE		
COURSE	BEARING	DISTANCE
N 1/4 SEC 6-300	S 00°37'12" W	49.44'
300-301	S 00°37'12" W	84.50'
301-302	N 77°43'17" W	118.27'
302-303	S 44°48'45" W	68.25'
303-304	N 89°35'13" W	240.54'
304-305	N 00°19'53" E	65.89'
305-309	N 89°37'53" W	845.42'
309-310	N 84°58'23" W	246.26'
310-311	S 66°31'40" W	37.37'
311-312	S 06°16'26" W	115.83'
312-313	S 00°10'13" E	85.00'
313-314	S 89°49'47" W	9.95'
314-315	S 89°49'47" W	66.01'
315-316	N 00°36'02" E	67.23'
316-317	N 07°55'21" W	139.30'
317-318	N 60°47'43" W	44.06'
318-319	N 89°37'16" W	791.24'
319-320	S 83°39'08" W	196.35'
320-321	N 89°23'52" W	262.19'
321-322	N 00°27'16" W	80.99'
322-NW SEC 6	N 00°27'16" W	0.29'
NW SEC 6-323	N 00°12'18" E	126.89'
323-324	S 89°47'42" E	27.80'
324-325	S 52°44'23" E	127.90'
325-326	N 75°53'12" E	101.89'
326-327	S 72°55'15" E	88.61'
327-328	S 89°37'53" E	865.31'
328-329	N 86°43'38" E	629.84'
329-330	S 89°37'53" E	708.16'
330-331	S 82°24'41" E	238.69'
331-332	S 89°37'53" E	164.45'
332-S 1/4 SEC 31	S 00°16'23" W	57.78'
S 1/4 SEC 31-N 1/4 SEC 6	S 89°23'50" E	8.18'

STATION & OFFSET TABLE		
POINT NO.	STATION	OFFSET
N 1/4 SEC 6	134+40.52	-48.70'
300	134+49.02	0.00'
301	134+64.24	83.16'
302	133+42.65	78.00'
303	133+00.34	132.74'
304	130+47.97	152.79'
305	130+45.20	86.95'
309	121+96.37	89.22'
310	119+50.91	69.26'
311	119+16.73	84.37'
312	119+04.84	199.59'
313	119+05.65	284.58'
314	118+95.70	284.68'
315	118+29.70	285.31'
316	118+29.95	218.09'
317	118+09.84	80.24'
318	117+71.24	59.00'
319	109+80.00	59.00'
320	107+85.00	82.00'
321	105+22.81	80.98'
322	105+21.63	0.00'
NW SEC 1	105+21.63	-0.29'
323	105+21.24	-127.18'
324	105+49.04	-127.26'
325	106+51.35	-50.50'
326	107+50.00	-76.00'
327	108+34.88	-50.54'
328	117+00.19	-50.69'
329	123+28.75	-90.81'
330	130+33.69	-92.74'
331	132+65.14	-80.69'
332	134+22.83	-104.20'
S 1/4 SEC 31	134+32.60	-47.30'

USH 10
CURVE 2 DATA
PI = 136+20.40
Y = 323410.733
X = 167032.622
T = 686.83
L = 1348.22
R = 2864.79
DELTA = 26°57'52" RT
D = 02°00'00"
LCH = 1335.81
LCB = S76°08'20"E
PT = 142+81.79
DA = S62°39'24"E

EXISTING MONUMENTS			
POINT	Y (NORTHING)	X (EASTING)	DESCRIPTION
IP 350	323553.896	163967.909	1.25" OD IP
IP 351	323480.893	164063.968	1.25" OD IP
IP 352	323474.091	165112.979	1.25" OD IP
IP 353	323505.581	166449.347	1.25" OD IP
IP 354	323473.977	166686.560	1.25" OD IP
IP 355	323318.157	166753.553	1.25" OD IP
IP 356	323257.875	166693.586	1.25" OD IP
IP 357	323259.609	166453.048	1.25" OD IP
IP 358	323325.483	166453.429	1.25" OD IP
IP 359	323330.847	165608.185	1.25" OD IP
IP 360	323352.500	165362.104	1.25" OD IP
IP 361	323336.759	165326.424	1.25" OD IP
IP 362	323207.659	165306.234	1.25" OD IP
IP 363	323181.354	165230.392	1.25" OD IP
IP 364	323342.466	165221.569	1.25" OD IP
IP 365	323373.821	165165.694	1.25" OD IP
IP 366	323377.272	165023.219	0.50" OD IP
IP 367	323590.36	165205.732	1.25" OD IP
IP 368	323581.337	165332.273	1.25" OD IP
IP 369	323510.142	165741.636	1.25" OD IP

200 FRONTIER NORTH INC.
DOC 712688 - PAR 5
DOC 533296 - PAR 4, 6
DOC 714108 - PAR 4, 9
DOC 533297 - PAR 9
DOC 533295 - PAR 7
DOC 713469 - PAR 7
DOC 533731 - PAR 8
DOC 712733 - PAR 8

UTILITY INTERESTS REQUIRED

UTILITY NUMBER	OWNER(S)	INTEREST REQUIRED
200	FRONTIER NORTH INC.	RELEASE OF RIGHTS

FOR THE LATEST ACCESS/DRIVEWAY INFORMATION CONTACT THE PLANNING DEPARTMENT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE IN GREEN BAY

FOUND RR SPIKE
Y=323431.521
X=163933.913

FOUND 1.25" OD IP
Y=323415.167
X=166850.520

FOUND 1.25" OD IP
Y=323415.081
X=166858.696

TRACT 4 CSM V 11 P 289 DOC 626587

TRACT 1 CSM V 7 P 395 DOC 525328

TRACT 3 CSM V 8 P 625 DOC 548311

TRACT 2 CSM V 8 P 623 DOC 548310

LOCATION SKETCH NOT TO SCALE

Refer to the Title Sheet, recorded as Sheet 2 of 2, in Cabinet D of Plats, Jacket 70, as Document No. 1165117 for additional information

SCALE, FEET
0 100 200

emcs.inc

I, KEVIN C. BOYER, PROFESSIONAL LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE DEPARTMENT, I HAVE SURVEYED TRANSPORTATION PROJECT PLAT 1500-33-21-4.03 AMENDMENT NO. 3 AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

Kevin C. Boyer DATE: 4/18/2017
KEVIN C. BOYER
PROFESSIONAL LAND SURVEYOR NUMBER 2675
THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION
(SIGNATURE) DATE: 4/18/2017
(PRINTED NAME) CURT 54

WISCONSIN KEVIN C BOYER S-2675 HEWITT WI LAND SURVEYOR

1500-33-21-4.03 A3

FILE NAME : P:\48xx\4816.DP.13.USH 10.MAN\CADDS\Plan\TPP\040103_rp_A3.dgn
APPRAISAL PLAT DATE :
PLOT DATE : 4/18/2017
PLOT BY : kcb
PLOT NAME :
PLOT SCALE : 1:100

DEPARTMENT COMPOSITE, ORIGINAL LOCATED AT THE REGISTER OF DEEDS OFFICE

TRANSPORTATION PROJECT PLAT NO: 1500-33-21 - 4.03 AMENDMENT NO. 2

AMENDS PARCEL NO: 4 AND 6 AND ADDS PARCEL 9 TO TRANSPORTATION PROJECT PLAT 1500-33-21-4.03 AMENDMENT NO: 1, RECORDED AS DOCUMENT NO: 1167764. THAT PART OF TRACT 4 OF CSM V 11 P 289 DOC NO 626587, TRACT 1 OF CSM V 7 P 395 DOC NO 525328, TRACT 3 OF CSM V 8 P 625 DOC NO 548311, AND TRACT 2 CSM V 8 P 623 DOC 548310 LOCATED IN AND PART OF THE NW1/4 OF THE FRACTIONAL NW1/4, PART OF THE NE1/4 OF THE FRACTIONAL NW1/4 OF SECTION 6, TOWNSHIP 19 NORTH, RANGE 22 EAST, TOWN OF CATO, ALSO THAT PART OF THE SW1/4 OF THE SW1/4 OF SECTION 31, TOWNSHIP 20 NORTH, RANGE 22 EAST, TOWN OF FRANKLIN, ALL IN MANITOWOC COUNTY, WISCONSIN

RELOCATION ORDER USH 10 MANITOWOC COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3), 84.09 AND 84.30, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:
1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE DEPARTMENT FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE STATE OF WISCONSIN, PURSUANT TO THE PROVISIONS OF SECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

PLAT
DOC # 1172799
VOL 9117Z PG 799
2016 SEPT 23 @ 11:30 am
TPP 1500-33-21-4.03 AMENDMENT NO 2

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1500-33-21-4.03
AMENDMENT NO: 2

SCHEDULE OF LANDS & INTERESTS REQUIRED

OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERSTS TO THE DEPARTMENT.

PARCEL NUMBER	OWNERS	INTEREST REQUIRED	R/W ACRES REQUIRED NEW	EXISTING	TOTAL
4	BRYAN D. BERKHOLTZ, LISA M. NATE & ERIN B. CLAUSEN, AS TRUSTEES OF THE DANIEL H. & MARGARET N. BERKHOLTZ IRREVOCABLE TRUST DATED JULY 16, 2015	FEE	0.352	---	0.352
5	LEE A. MAERTZ	FEE	0.054	---	0.054
6	DANIEL H. BERKHOLTZ & KAREN GRALL	FEE	0.071	---	0.071
7	DANIEL J. & ANGELA M. SCHAMBURECK	FEE	0.017	---	0.017
8	L&S FARMS, LTD.	FEE	0.043	---	0.043
9	DANIEL BERKHOLTZ & MARGARET BERKHOLTZ	FEE	0.034	---	0.034
10	JOHN E. & THERESA A. WORACHEK REVOCABLE TRUST	FEE	0.013	---	0.013

THE AREA SHOWN IN THE SCHEDULE OF LANDS AND INTERESTS IS ONLY THE AREA OF PARCEL SHOWN ON THIS SHEET. IF THE PARCEL IS ON MULTIPLE SHEETS, REFERENCE THE OTHER SHEET(S) FOR ADDITIONAL PARCEL AREAS.

COURSE TABLE		
COURSE	BEARING	DISTANCE
N 1/4 SEC 6-300	S 00°37'12" W	49.44'
300-301	S 00°37'12" W	84.50'
301-302	N 77°43'17" W	118.27'
302-303	S 44°48'45" W	68.25'
303-304	N 89°35'13" W	240.54'
304-305	N 00°19'53" E	65.89'
305-309	N 89°37'53" W	845.42'
309-310	N 84°58'23" W	246.26'
310-311	S 66°31'40" W	37.37'
311-312	S 06°16'26" W	115.83'
312-313	S 00°10'13" E	85.00'
313-314	S 89°49'47" W	9.95'
314-315	S 89°49'47" W	66.01'
315-316	N 00°36'02" E	67.23'
316-317	N 07°55'21" W	139.30'
317-318	N 60°47'43" W	44.06'
318-319	N 89°37'16" W	791.24'
319-320	S 83°39'08" W	196.35'
320-321	N 89°23'52" W	262.19'
321-322	N 00°27'16" W	80.99'
322-NW SEC 6	N 00°27'16" W	0.29'
NW SEC 6-323	N 00°12'18" E	126.89'
323-324	S 89°47'42" E	27.80'
324-325	S 52°44'23" E	127.90'
325-326	N 75°53'12" E	101.89'
326-327	S 72°55'15" E	88.61'
327-328	S 89°37'53" E	865.31'
328-329	N 86°43'38" E	629.84'
329-330	S 89°37'53" E	708.16'
330-331	S 82°24'41" E	238.69'
331-332	S 89°37'53" E	164.45'
332-S 1/4 SEC 31	S 00°16'23" W	57.78'
S 1/4 SEC 31-N 1/4 SEC 6	S 89°23'50" E	8.18'

STATION & OFFSET TABLE		
POINT NO.	STATION	OFFSET
N 1/4 SEC 6	134+40.52	-48.70'
300	134+49.02	0.00'
301	134+64.24	83.16'
302	133+42.65	78.00'
303	133+00.34	132.74'
304	130+47.97	152.79'
305	130+45.20	86.95'
309	121+96.37	89.22'
310	119+50.91	69.26'
311	119+16.73	84.37'
312	119+04.84	199.59'
313	119+05.65	284.58'
314	118+95.70	284.68'
315	118+29.70	285.31'
316	118+29.95	218.09'
317	118+09.84	80.24'
318	117+71.24	59.00'
319	109+80.00	59.00'
320	107+85.00	82.00'
321	105+22.81	80.98'
322	105+21.63	0.00'
NW SEC 1	105+21.63	-0.29'
323	105+21.24	-127.18'
324	105+49.04	-127.26'
325	106+51.35	-50.50'
326	107+50.00	-76.00'
327	108+34.88	-50.54'
328	117+00.19	-50.69'
329	123+28.75	-90.81'
330	130+33.69	-92.74'
331	132+65.14	-80.69'
332	134+22.83	-104.20'
S 1/4 SEC 31	134+32.60	-47.30'

USH 10
CURVE 2 DATA
PI = 136+20.40
Y = 323410.733
X = 167032.622
T = 686.83
L = 1348.22
R = 2864.79
DELTA = 26°57'52" RT
D = 02°00'00"
LCH = 1335.81
LCB = S76°08'20"E
PT = 142+81.79
DA = S62°39'24"E

EXISTING MONUMENTS			
POINT	Y (NORTHING)	X (EASTING)	DESCRIPTION
IP 350	323553.896	163967.909	1.25" OD IP
IP 351	323480.893	164063.968	1.25" OD IP
IP 352	323474.091	165112.979	1.25" OD IP
IP 353	323505.581	166449.347	1.25" OD IP
IP 354	323473.977	166686.560	1.25" OD IP
IP 355	323318.157	166753.553	1.25" OD IP
IP 356	323257.875	166693.586	1.25" OD IP
IP 357	323259.609	166453.048	1.25" OD IP
IP 358	323325.483	166453.429	1.25" OD IP
IP 359	323330.847	165608.185	1.25" OD IP
IP 360	323352.500	165362.104	1.25" OD IP
IP 361	323336.759	165326.424	1.25" OD IP
IP 362	323207.659	165306.234	1.25" OD IP
IP 363	323181.354	165230.392	1.25" OD IP
IP 364	323342.466	165221.569	1.25" OD IP
IP 365	323373.821	165165.694	1.25" OD IP
IP 366	323377.272	165023.219	0.50" OD IP
IP 367	323590.36	165205.732	1.25" OD IP
IP 368	323581.337	165332.273	1.25" OD IP
IP 369	323510.142	165741.636	1.25" OD IP

200 FRONTIER NORTH INC.
DOC 712688 - PAR 5
DOC 533296 - PAR 4, 6
DOC 714108 - PAR 4
DOC 533297 - PAR 4
DOC 533295 - PAR 7
DOC 713469 - PAR 7
DOC 533731 - PAR 8
DOC 712733 - PAR 8

UTILITY INTERESTS REQUIRED

UTILITY NUMBER	OWNER(S)	INTEREST REQUIRED
200	FRONTIER NORTH INC.	RELEASE OF RIGHTS

FOR THE LATEST ACCESS/DRIVEWAY INFORMATION CONTACT THE PLANNING DEPARTMENT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE IN GREEN BAY

FOUND RR SPIKE
Y=323431.521
X=163933.913

FOUND 1.25" OD IP
Y=323415.167
X=166850.520

FOUND 1.25" OD IP
Y=323415.081
X=166858.696

TRACT 4 CSM V 11 P 289 DOC 626587

TRACT 1 CSM V 7 P 395 DOC 525328

TRACT 3 CSM V 8 P 625 DOC 548311

TRACT 2 CSM V 8 P 623 DOC 548310

PC STA129+33.57

R=S89°37'16"E

LOCATION SKETCH NOT TO SCALE

Refer to the Title Sheet, recorded as Sheet 2 of 2, in Cabinet D of Plats, Jacket 70, as Document No. 1165117 for additional information

SCALE, FEET
0 100 200

I, KEVIN C. BOYER, PROFESSIONAL LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE DEPARTMENT, I HAVE SURVEYED TRANSPORTATION PROJECT PLAT 1500-33-21-4.03 AMENDMENT NO. 2 AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

Kevin C. Boyer DATE: 9/9/2016
KEVIN C. BOYER
PROFESSIONAL LAND SURVEYOR NUMBER 2675
THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION

(SIGNATURE) DATE: 9/14/2016
(PRINTED NAME) CURT

55

1500-33-21-4.03 A2

FILE NAME : P:\48xx\4816.DP.13.USH 10.MAN\CADDS\Plan\TPP\040103_rp_A2.dgn
APPRAISAL PLAT DATE :
PLOT DATE : 9/9/2016
PLOT BY : kcb
PLOT NAME :
PLOT SCALE : 1:100

DEPARTMENT COMPOSITE, ORIGINAL LOCATED AT THE REGISTER OF DEEDS OFFICE

TRANSPORTATION PROJECT PLAT NO: 1500-33-21 - 4.03 AMENDMENT NO. 1

AMENDS PARCEL NO: 4, 6, 7, 8 AND 10 OF TRANSPORTATION PROJECT PLAT 1500-33-21-4.03 RECORDED AS DOCUMENT NO: 1165496. THAT PART OF TRACT 4 OF CSM V 11 P 289 DOC NO 626587, TRACT 1 OF CSM V 7 P 395 DOC NO 525328, TRACT 3 OF CSM V 8 P 625 DOC NO 548311, AND TRACT 2 CSM V 8 P 623 DOC 548310 LOCATED IN AND PART OF THE NW1/4 OF THE FRACTIONAL NW1/4, PART OF THE NE1/4 OF THE FRACTIONAL NW1/4 OF SECTION 6, TOWNSHIP 19 NORTH, RANGE 22 EAST, TOWN OF CATO, ALSO THAT PART OF THE SW1/4 OF THE SW1/4 OF SECTION 31, TOWNSHIP 20 NORTH, RANGE 22 EAST, TOWN OF FRANKLIN, ALL IN MANITOWOC COUNTY, WISCONSIN

RELOCATION ORDER USH 10 MANITOWOC COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3), 84.09 AND 84.30, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:
1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE DEPARTMENT FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE STATE OF WISCONSIN, PURSUANT TO THE PROVISIONS OF SECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

DOC # 1167764
VOL 9116? PG 764
PLAT
2016 MAY 4 @ 9:00AM
TRANSPORTATION PROJECT PLAT 1500-33-21-4.03 AMENDMENT NO 1

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1500-33-21-4.03
AMENDMENT NO: 1

SCHEDULE OF LANDS & INTERESTS REQUIRED

OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERSTS TO THE DEPARTMENT.

PARCEL NUMBER	OWNERS	INTEREST REQUIRED	R/W ACRES REQUIRED NEW	EXISTING	TOTAL
4	DANIEL H. & MARGARET N. BERKHOLTZ	FEE	0.386	---	0.386
5	LEE A. MAERTZ	FEE	0.054	---	0.054
6	DANIEL H. BERKHOLTZ, CHERYL FRIDAY & KAREN GRAIL	FEE	0.071	---	0.071
7	DANIEL J. & ANGELA M. SCHAMBURECK	FEE	0.017	---	0.017
8	L&S FARMS, LTD.	FEE	0.043	---	0.043
10	JOHN E. & THERESA A. WORACHEK REVOCABLE TRUST	FEE	0.013	---	0.013

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300-301	S 00°37'12" W	84.50'
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S 1/4 SEC 31-N 1/4 SEC 6	S 89°23'50" E	8.18'

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POINT NO.	STATION	OFFSET
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314	118+95.70	284.68'
315	118+29.70	285.31'
316	118+29.95	218.09'
317	118+09.84	80.24'
318	117+71.24	59.00'
319	109+80.00	59.00'
320	107+85.00	82.00'
321	105+22.81	80.98'
322	105+21.63	0.00'
NW SEC 1	105+21.63	-0.29'
323	105+21.24	-127.18'
324	105+49.04	-127.26'
325	106+51.35	-50.50'
326	107+50.00	-76.00'
327	108+34.88	-50.54'
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329	123+28.75	-90.81'
330	130+33.69	-92.74'
331	132+65.14	-80.69'
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USH 10
CURVE 2 DATA
PI = 136+20.40
Y = 323410.733
X = 167032.622
T = 686.83
L = 1348.22
R = 2864.79
DELTA = 26°57'52" RT
D = 02°00'00"
LCH = 1335.81
LCB = S76°08'20"E
PT = 142+81.79
DA = S62°39'24"E

EXISTING MONUMENTS			
POINT	Y (NORTHING)	X (EASTING)	DESCRIPTION
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IP 356	323257.875	166693.586	1.25" OD IP
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IP 360	323352.500	165362.104	1.25" OD IP
IP 361	323336.759	165326.424	1.25" OD IP
IP 362	323207.659	165306.234	1.25" OD IP
IP 363	323181.354	165230.392	1.25" OD IP
IP 364	323342.466	165221.569	1.25" OD IP
IP 365	323373.821	165165.694	1.25" OD IP
IP 366	323377.272	165023.219	0.50" OD IP
IP 367	323590.36	165205.732	1.25" OD IP
IP 368	323581.337	165332.273	1.25" OD IP
IP 369	323510.142	165741.636	1.25" OD IP

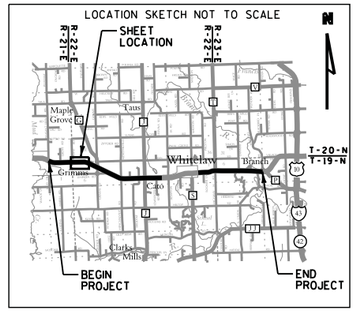
200 FRONTIER NORTH INC.
DOC 712688 - PAR 5
DOC 533296 - PAR 4, 6
DOC 714108 - PAR 4
DOC 533297 - PAR 4
DOC 533295 - PAR 7
DOC 713469 - PAR 7
DOC 533731 - PAR 8
DOC 712733 - PAR 8

UTILITY INTERESTS REQUIRED

UTILITY NUMBER	OWNER(S)	INTEREST REQUIRED
200	FRONTIER NORTH INC.	RELEASE OF RIGHTS

FOR THE LATEST ACCESS/DRIVEWAY INFORMATION CONTACT THE PLANNING DEPARTMENT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE IN GREEN BAY

LOCATION SKETCH NOT TO SCALE



Refer to the Title Sheet, recorded as Sheet 2 of 2, in Cabinet D of Plats, Jacket 70, as Document No. 1165117 for additional information

SCALE: FEET
0 100 200

emcs.inc

I, KEVIN C. BOYER, PROFESSIONAL LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE DEPARTMENT, I HAVE SURVEYED TRANSPORTATION PROJECT PLAT 1500-33-21-4.03 AMENDMENT NO. 1 AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

Kevin C Boyer DATE: 4/27/2016
KEVIN C. BOYER
PROFESSIONAL LAND SURVEYOR NUMBER 2675
THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION
(SIGNATURE) DATE: 4/28/2016
(PRINTED NAME) CURT

FILE NAME : P:\48xx\4816.DP.13.USH 10.MAN\CADDS\Plan\TPP\040103_rp_A1.dgn
APPRAISAL PLAT DATE :
PLOT DATE : 4/27/2016
PLOT BY : kcb
PLOT NAME :
PLOT SCALE : 1:100

1500-33-21-4.03 A1

DEPARTMENT COMPOSITE, ORIGINAL LOCATED AT THE REGISTER OF DEEDS OFFICE

TRANSPORTATION PROJECT PLAT NO: 1500-33-21 - 4.03

THAT PART OF TRACT 4 OF CSM V 11 P 289 DOC NO 626587, TRACT 1 OF CSM V 7 P 395 DOC NO 525328, TRACT 3 OF CSM V 8 P 625 DOC NO 548311, AND TRACT 2 CSM V 8 P 623 DOC 548310 LOCATED IN AND PART OF THE NW1/4 OF THE FRACTIONAL NW1/4, PART OF THE NE1/4 OF THE FRACTIONAL NW1/4 OF SECTION 6, TOWNSHIP 19 NORTH, RANGE 22 EAST, TOWN OF CATO, ALSO THAT PART OF THE SW1/4 OF THE SW1/4 OF SECTION 31, TOWNSHIP 20 NORTH, RANGE 22 EAST, TOWN OF FRANKLIN, ALL IN MANITOWOC COUNTY, WISCONSIN

RELOCATION ORDER USH 10 MANITOWOC COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3), 84.09 AND 84.30, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:
1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE DEPARTMENT FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE STATE OF WISCONSIN, PURSUANT TO THE PROVISIONS OF SECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

STATE OF WI - MTWC CO
TYPE OF DOC: LOCAL REGULATIONS
RECORDED 02/16/2016 AT 10:00 AM
DOC # 1165496
VOL. 2116.5 PG. 496

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1500-33-21-4.03
AMENDMENT NO:

SCHEDULE OF LANDS & INTERESTS REQUIRED

OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERSTS TO THE DEPARTMENT.

PARCEL NUMBER	OWNERS	INTEREST REQUIRED	R/W ACRES REQUIRED NEW	EXISTING	TOTAL	TLE ACRES
4	DANIEL H. & MARGARET N. BERKHOLTZ	FEE/TLE	0.386	---	0.386	0.134
5	LEE A. MAERTZ	FEE	0.054	---	0.054	---
6	DANIEL H. BERKHOLTZ, CHERYL FRIDAY & KAREN GRAIL	FEE/TLE	0.071	---	0.071	0.054
7	DANIEL J. & ANGELA M. SCHAMBURECK	FEE/TLE	0.017	---	0.017	0.019
8	L&S FARMS, LTD.	FEE/TLE	0.043	---	0.043	0.046
10	JOHN E. & THERESA A. WORACHEK REVOCABLE TRUST	FEE/TLE	0.013	---	0.013	0.005

THE AREA SHOWN IN THE SCHEDULE OF LANDS AND INTERESTS IS ONLY THE AREA OF PARCEL SHOWN ON THIS SHEET. IF THE PARCEL IS ON MULTIPLE SHEETS, REFERENCE THE OTHER SHEET(S) FOR ADDITIONAL PARCEL AREAS.

UTILITY INTERESTS REQUIRED

UTILITY NUMBER	OWNER(S)	INTEREST REQUIRED
200	FRONTIER NORTH INC.	RELEASE OF RIGHTS

TLE STATION & OFFSET TABLE		
POINT NO.	STATION	OFFSET
TLE373	121+95.14	89.50'
TLE374	121+70.00	120.00'
TLE375	121+25.00	120.00'
TLE376	121+25.00	83.41'
TLE377	119+21.71	82.17'
TLE378	119+14.45	159.49'
TLE379	119+14.79	194.49'
TLE380	119+08.93	209.55'
TLE381	119+09.65	284.55'
TLE383	118+21.66	285.39'
TLE384	118+20.38	152.48'
TLE385	118+12.79	100.47'
TLE386	117+97.69	80.61'
TLE387	117+63.00	67.00'
TLE388	116+90.00	64.00'
TLE389	116+90.00	76.00'
TLE390	116+44.00	76.00'
TLE391	116+44.00	66.00'
TLE392	113+50.00	66.00'
TLE393	113+50.00	80.00'
TLE394	113+00.00	80.00'
TLE395	113+00.00	66.00'
TLE396	109+20.65	66.00'

COURSE TABLE		
COURSE	BEARING	DISTANCE
N 1/4 SEC 6-300	S 00°37'12" W	49.44'
300-301	S 00°37'12" W	84.50'
301-302	N 77°43'17" W	118.27'
302-303	S 44°48'45" W	68.25'
303-304	N 89°35'13" W	240.54'
304-305	N 00°19'53" E	65.89'
305-309	N 89°37'53" W	845.42'
309-310	N 84°58'23" W	246.26'
310-311	S 66°31'40" W	37.37'
311-312	S 06°16'26" W	115.83'
312-313	S 00°10'13" E	85.00'
313-314	S 89°49'47" W	9.95'
314-315	S 89°49'47" W	66.01'
315-316	N 00°36'02" E	67.23'
316-317	N 07°55'21" W	139.30'
317-318	N 60°47'43" W	44.06'
318-319	N 89°37'16" W	791.24'
319-320	S 83°39'08" W	196.35'
320-321	N 89°23'52" W	262.19'
321-322	N 00°27'16" W	80.99'
322-NW SEC 6	N 00°27'16" W	0.29'
NW SEC 6-323	N 00°12'18" E	126.89'
323-324	S 89°47'42" E	27.80'
324-325	S 52°44'23" E	127.90'
325-326	N 75°53'12" E	101.89'
326-327	S 72°55'15" E	88.61'
327-328	S 89°37'53" E	865.31'
328-329	N 86°43'38" E	629.84'
329-330	S 89°37'53" E	708.16'
330-331	S 82°24'41" E	238.69'
331-332	S 89°37'53" E	164.45'
332-S 1/4 SEC 31	S 00°16'23" W	57.78'
S 1/4 SEC 31-N 1/4 SEC 6	S 89°23'50" E	8.18'

STATION & OFFSET TABLE		
POINT NO.	STATION	OFFSET
N 1/4 SEC 6	134+40.52	-48.70'
300	134+49.02	0.00'
301	134+64.24	83.16'
302	133+42.65	78.00'
303	133+00.34	132.74'
304	130+47.97	152.79'
305	130+45.20	86.95'
309	121+96.37	89.22'
310	119+50.91	69.26'
311	119+16.73	84.37'
312	119+04.84	199.59'
313	119+05.65	284.58'
314	118+95.70	284.68'
315	118+29.70	285.31'
316	118+29.95	218.09'
317	118+09.84	80.24'
318	117+71.24	59.00'
319	109+80.00	59.00'
320	107+85.00	82.00'
321	105+22.81	80.98'
322	105+21.63	0.00'
NW SEC 1	105+21.63	-0.29'
323	105+21.24	-127.18'
324	105+49.04	-127.26'
325	106+51.35	-50.50'
326	107+50.00	-76.00'
327	108+34.88	-50.54'
328	117+00.19	-50.69'
329	123+28.75	-90.81'
330	130+33.69	-92.74'
331	132+65.14	-80.69'
332	134+22.83	-104.20'
S 1/4 SEC 31	134+32.60	-47.30'

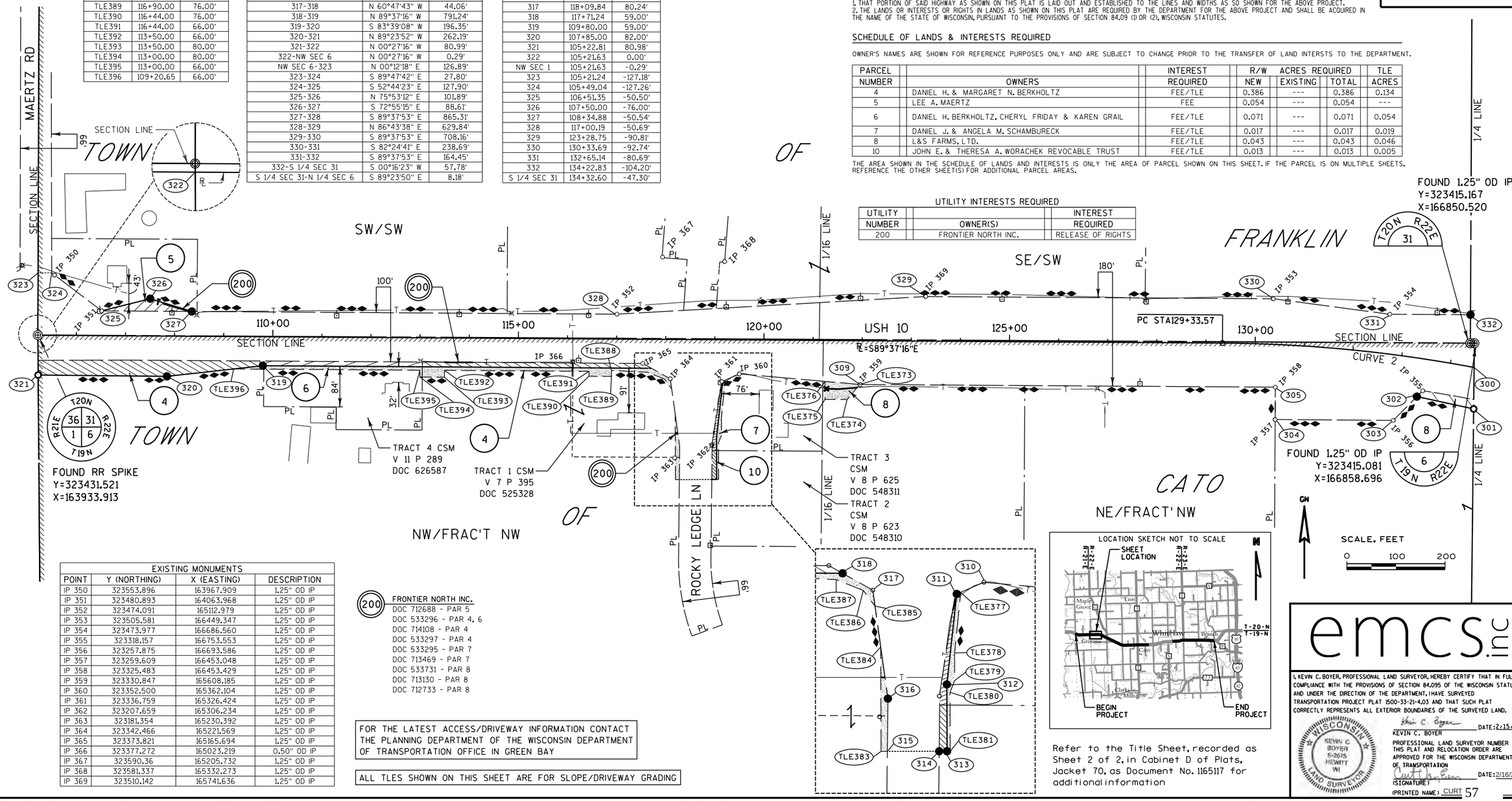
USH 10
CURVE 2 DATA
PI = 136+20.40
Y = 323410.733
X = 167032.622
T = 686.83
L = 1348.22
R = 2864.79
DELTA = 26°57'52" RT
D = 02°00'00"
LCH = 1335.81
LCB = S76°08'20"E
PT = 142+81.79
DA = S62°39'24"E

EXISTING MONUMENTS			
POINT	Y (NORTHING)	X (EASTING)	DESCRIPTION
IP 350	323553.896	163967.909	1.25" OD IP
IP 351	323480.893	164063.968	1.25" OD IP
IP 352	323474.091	165112.979	1.25" OD IP
IP 353	323505.581	166449.347	1.25" OD IP
IP 354	323473.977	166686.560	1.25" OD IP
IP 355	323318.157	166753.553	1.25" OD IP
IP 356	323257.875	166693.586	1.25" OD IP
IP 357	323259.609	166453.048	1.25" OD IP
IP 358	323325.483	166453.429	1.25" OD IP
IP 359	323330.847	165608.185	1.25" OD IP
IP 360	323352.500	165362.104	1.25" OD IP
IP 361	323336.759	165326.424	1.25" OD IP
IP 362	323207.659	165306.234	1.25" OD IP
IP 363	323181.354	165230.392	1.25" OD IP
IP 364	323342.466	165221.569	1.25" OD IP
IP 365	323373.821	165165.694	1.25" OD IP
IP 366	323377.272	165023.219	0.50" OD IP
IP 367	323590.36	165205.732	1.25" OD IP
IP 368	323581.337	165332.273	1.25" OD IP
IP 369	323510.142	165741.636	1.25" OD IP

200 FRONTIER NORTH INC.
DOC 712688 - PAR 5
DOC 533296 - PAR 4, 6
DOC 714108 - PAR 4
DOC 533297 - PAR 4
DOC 533295 - PAR 7
DOC 713469 - PAR 7
DOC 533731 - PAR 8
DOC 713130 - PAR 8
DOC 712733 - PAR 8

FOR THE LATEST ACCESS/DRIVEWAY INFORMATION CONTACT THE PLANNING DEPARTMENT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE IN GREEN BAY

ALL TLES SHOWN ON THIS SHEET ARE FOR SLOPE/DRIVEWAY GRADING



Refer to the Title Sheet, recorded as Sheet 2 of 2, in Cabinet D of Plats, Jacket 70, as Document No. 1165117 for additional information

emcs.inc

I, KEVIN C. BOYER, PROFESSIONAL LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE DEPARTMENT, I HAVE SURVEYED TRANSPORTATION PROJECT PLAT 1500-33-21-4.03 AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

WISCONSIN KEVIN C BOYER S-2675 HEWITT WI LAND SURVEYOR

Kevin C. Boyer DATE: 2/15/2016
KEVIN C. BOYER
PROFESSIONAL LAND SURVEYOR NUMBER 2675
THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION
(SIGNATURE) DATE: 2/16/2016
(PRINTED NAME) CURT 57

1500-33-21-4.03

DEPARTMENT COMPOSITE, ORIGINAL LOCATED AT THE REGISTER OF DEEDS OFFICE

TRANSPORTATION PROJECT PLAT NO: 1500-33-21 - 4.04

THAT PART OF THE NW1/4 OF THE FRACTIONAL NE1/4 AND PART OF THE NE1/4 OF THE FRACTIONAL NE1/4 OF SECTION 6, TOWNSHIP 19 NORTH, RANGE 22 EAST, TOWN OF CATO, MANITOWOC COUNTY, WISCONSIN

RELOCATION ORDER USH 10 MANITOWOC COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3), 84.09 AND 84.30, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:
1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE DEPARTMENT FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE STATE OF WISCONSIN, PURSUANT TO THE PROVISIONS OF SECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

FOR THE LATEST ACCESS/DRIVEWAY INFORMATION CONTACT THE PLANNING DEPARTMENT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE IN GREEN BAY

UTILITY INTERESTS REQUIRED

UTILITY NUMBER	OWNER(S)	INTEREST REQUIRED
200	FRONTIER NORTH INC.	RELEASE OF RIGHTS

DOC # 1165497
VOL. 9 1165 PG. 497

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1500-33-21-4.04
AMENDMENT NO:

FOUND PK NAIL
Y=323411.694
X=169500.059

T20N R22E 31 32

200 FRONTIER NORTH INC.
DOC 533731 - PAR 8, 11
DOC 712733 - PAR 8

FOUND PK NAIL
Y=323411.742
X=169508.654

T 19 N R22E 6 5

SE/SE FRANKLIN

1/16 LINE

S89°55'36"E 2641.37' MON TO MON

S00°22'01"W 1133.79' MON TO ALI

SW/SE TOWN OF

66'

SECTION LINE

TRACT 1 CSM V 8 P 405 DOC 542127

TRACT 2 CSM V 9 P 171 DOC 556195

60'

CTH G SECTION LINE

FOUND 1.25" OD IP
Y=323415.167
X=166850.520

403-404
L = 185.04
LCH = 181.91
R = 290
LCB = S71°24'59"W

NE/FRACT'NE

180'

210'

USH 10

R=S62°39'24"E

PT STA142+81.79

CURVE 2

1/4 LINE

1/16 LINE

PL

140+00 145+00 150+00 155+00 160+00

IP 450 IP 451 IP 452 IP 453 IP 454 IP 455 IP 456 IP 457 IP 458 IP 459

400 401 403 404 405 406 407 408 409 410 411 412 413 414 415 416 417 418 419 420 421 422 423 424 425

8 11 200

MARSICEK LN

GRIMMS RD

50'

T 19 N R22E 6

FOUND 1.25" OD IP
Y=323415.081
X=166858.696

NW/FRACT'NE OF CATO SE/FRACT'NE

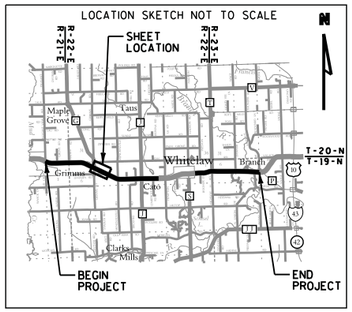
GN

SCALE, FEET
0 100 200

Refer to the Title Sheet, recorded as Sheet 2 of 2, in Cabinet D of Plats, Jacket 70, as Document No. 1165117 for additional information

USH 10
CURVE 2 DATA
PI = 136+20.40
Y = 323410.733
X = 167032.622
T = 686.83
L = 1348.22
R = 2864.79
DELTA = 26°57'52" RT
D = 02°00'00"
LCH = 1335.81
LCB = S76°08'20"E
PC = 129+33.57
DA = N89°37'16"W

LOCATION SKETCH NOT TO SCALE



SCHEDULE OF LANDS & INTERESTS REQUIRED

OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERSTS TO THE DEPARTMENT.

PARCEL NUMBER	OWNERS	INTEREST REQUIRED	R/W ACRES REQUIRED NEW	EXISTING	TOTAL
8	L & S FARMS, LTD.	FEE	0.945	---	0.945
11	RICHARD C. & KAREN A. GENGLER	FEE	0.158	---	0.158

THE AREA SHOWN IN THE SCHEDULE OF LANDS AND INTERESTS IS ONLY THE AREA OF PARCEL SHOWN ON THIS SHEET. IF THE PARCEL IS ON MULTIPLE SHEETS, REFERENCE THE OTHER SHEET(S) FOR ADDITIONAL PARCEL AREAS.

COURSE TABLE

COURSE	BEARING	DISTANCE
S 1/4 SEC 31-400	N 00°16'23" E	65.92'
400-401	S 89°55'36" E	1191.27'
401-403	S 01°04'37" W	126.98'
403-404	SEE CURVE DATA ON SHEET	
404-405	S 26°50'45" W	176.49'
405-406	S 34°07'50" E	49.94'
406-407	S 62°39'45" E	464.89'
407-408	S 68°22'23" E	301.50'
408-409	S 62°39'45" E	100.00'
409-410	S 52°56'06" E	355.11'
410-411	S 67°25'07" E	606.88'
411-412	S 89°37'59" E	60.00'
412-413	S 00°22'01" W	143.23'
413-414	S 00°22'01" W	199.36'
414-415	N 89°37'59" W	60.00'
415-425	N 69°32'01" W	175.89'
425-416	N 69°00'36" W	80.96
416-417	N 05°32'25" E	53.85'
417-418	S 89°55'42" E	185.54'
418-419	N 62°39'45" W	600.01'
419-420	N 67°14'42" W	200.64'
420-421	N 62°40'12" W	1489.43'
421-422	N 66°32'58" W	291.34'
422-423	N 77°43'17" W	229.07'
423-424	N 00°37'12" E	84.50'
424-N 1/4 SEC 6	N 00°37'12" E	49.44'
N 1/4 SEC 6 - S 1/4 SEC 31	N 89°23'50" W	8.18'

STATION & OFFSET TABLE

POINT NO.	STATION	OFFSET
S 1/4 SEC 31	134+32.60	'-47.30'
400	134+21.49	-112.21'
401	144+60.04	-524.82'
403	145+16.23	-410.95'
404	143+89.69	-280.26'
405	143+91.23	-103.77'
406	144+35.10	-79.92'
407	148+99.99	-79.97'
408	151+99.99	-110.00'
409	152+99.99	-110.01'
410	156+50.00	-50.05'
411	162+54.78	-100.43'
412	163+08.26	-127.64'
413	163+73.23	0.00'
414	164+63.66	177.66'
415	164+10.19	204.88'
416	161+55.10	234.90'
417	161+35.09	184.90'
418	163+00.01	99.89'
419	157+00.00	99.95'
420	155+00.00	116.00'
421	140+00.00	103.00'
422	137+00.00	78.88'
423	134+64.24	83.16'
424	134+49.02	0.00'
425	162+35.56	225.94'
N 1/4 SEC 6	134+40.52	-48.70'

EXISTING MONUMENTS

POINT	Y (NORTHING)	X (EASTING)	DESCRIPTION
IP 450	323294.729	167867.877	1.25" OD IP
IP 451	323137.170	167787.576	1.25" OD IP
IP 452	322771.354	168509.006	1.25" OD IP
IP 453	322725.199	168597.758	1.25" OD IP
IP 454	322511.159	168881.021	1.25" OD IP
IP 455	322280.087	169437.090	1.25" OD IP
IP 456	322079.604	169389.616	1.25" OD IP
IP 457	322079.801	169204.017	1.25" OD IP
IP 458	322860.290	167879.628	1.25" OD IP
IP 459	323113.946	167452.577	1.25" OD IP

emcs.llc

I, KEVIN C. BOYER, PROFESSIONAL LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE DEPARTMENT, I HAVE SURVEYED TRANSPORTATION PROJECT PLAT 1500-33-21-4.04 AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

Kevin C. Boyer DATE: 2/10/2016
KEVIN C. BOYER
PROFESSIONAL LAND SURVEYOR NUMBER 2675
THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION
(SIGNATURE) DATE: 2/15/2016
(PRINTED NAME) CURT 58

FILE NAME : P:\48xx\4816.DP.13.USH 10.MAN\CADDS\Plan\TPP\040104_rp.dgn
PLOT DATE : 2/10/2016
PLOT BY : kcb
PLOT NAME :
PLOT SCALE : 1:100
APPRAISAL PLAT DATE :

1500-33-21-4.04

DEPARTMENT COMPOSITE, ORIGINAL LOCATED AT THE REGISTER OF DEEDS OFFICE

TRANSPORTATION PROJECT PLAT NO: 1500-33-21 - 4.05 AMENDMENT NO. 1

AMENDS PARCEL NO: 13 OF TRANSPORTATION PROJECT PLAT 1500-33-21-4.05 RECORDED AS DOCUMENT NO: 1165498. THAT PART OF THE SW1/4 OF THE FRACTIONAL NW1/4 AND PART OF THE SE1/4 OF THE FRACTIONAL NW1/4 OF SECTION 5, TOWNSHIP 19 NORTH, RANGE 22 EAST, TOWN OF CATO, MANITOWOC COUNTY, WISCONSIN

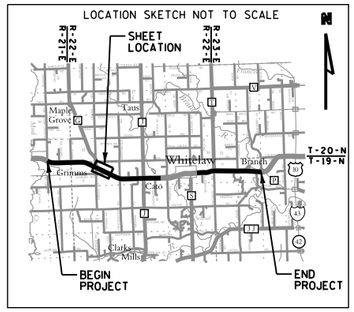
RELOCATION ORDER USH 10 MANITOWOC COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3), 84.09 AND 84.30, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:
1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE DEPARTMENT FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE STATE OF WISCONSIN, PURSUANT TO THE PROVISIONS OF SECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

FOR THE LATEST ACCESS/DRIVEWAY INFORMATION CONTACT THE PLANNING DEPARTMENT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE IN GREEN BAY

LOCATION SKETCH NOT TO SCALE



COURSE TABLE		
COURSE	BEARING	DISTANCE
500-501	S 62°39'24" E	236.27'
501-502	N 27°20'36" E	100.14'
502-503	S 62°39'45" E	570.50'
503-504	S 65°17'09" E	540.57'
504-505	S 54°50'10" E	181.69'
505-506	S 62°39'45" E	140.00'
506-507	S 71°26'07" E	161.90'
507-508	S 62°39'24" E	800.00'
508-509	S 76°30'47" E	154.50'
509-510	S 62°39'24" E	104.27'
510-511	S 00°38'28" W	181.34'
511-C SEC 5	S 00°38'28" W	59.04'
C 1/4 SEC 5-512	S 00°58'15" W	84.18'
512-513	SEE CURVE DATA ON SHEET	
513-514	S 89°54'41" W	64.62'
514-515	N 62°20'02" W	57.98'
515-516	S 89°54'41" W	158.05'
516-517	S 74°00'17" W	98.51'
517-518	N 16°34'11" W	125.14'
518-519	N 53°07'16" E	135.47'
519-520	N 21°48'19" W	91.72'
520-521	N 62°39'45" W	1054.68'
521-522	N 62°39'45" W	1054.69'
522-523	S 57°32'29" W	113.94'
523-524	N 87°25'34" W	64.62'
524-525	N 89°37'59" W	60.00'
525-500	N 00°22'01" E	283.46'

STATION & OFFSET TABLE		
POINT NO.	STATION	OFFSET
500	163+73.23	0.00'
501	166+09.50	0.00'
502	166+09.50	-100.14'
503	171+80.00	-100.20'
504	177+20.00	-125.00'
505	179+00.00	-100.28'
506	180+40.00	-100.29'
507	182+00.00	-125.00'
508	190+00.00	-125.00'
509	191+50.00	-162.00'
510	192+54.27	-162.00'
511	193+35.75	0.00'
C 1/4 SEC 5	193+62.28	52.74'
512	193+99.67	128.16'
513	192+05.17	201.89'
514	191+47.81	231.67'
515	190+89.83	231.34'
516	189+49.55	304.15'
517	188+77.90	371.76'
518	187+91.10	281.61'
519	188+50.02	159.62'
520	187+80.64	99.63'
521	177+25.96	99.74'
522	166+71.27	99.85'
523	166+13.96	198.33'
524	165+55.28	225.40'
525	165+01.81	252.62'

SCALE, FEET
0 100 200

DOC # 1167765
VOL. 91167 PG 765
PLAT
2016 MAY 4 @ 9:00AM
TRANSPORTATION PROJECT PLAT 1500-33-21-4.05 AMENDMENT NO 1

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1500-33-21-4.05
AMENDMENT NO: 1

4

TOWN

FOUND PK NAIL
Y=323411.742
X=169508.654

T 19 N R22E (6 5)

NW/FRACT' NW

1/16 LINE

PL

IP 550

S00°22'01"W
1277.16'
MON TO 500

200'

502 503 504 505 506 507 508 509 510 511

12 13 202

FO

165+00 170+00 175+00 180+00 185+00 190+00

USH 10

℄=S62°39'24"E

500 501

SE/FRACT' NW

FOUND PK NAIL
Y=323413.912
X=172161.539

T 19 N R22E (5)

S00°38'28"W
2458.83'
MON TO 510

FOUND
1.25" OD IP
Y=320714.828
X=172131.339

T 19 N R 22 E (5)

1/4 LINE

IP 551 IP 552

522 IP 555 521

523 524 IP 556 525

GRIMMS RD

SECTION LINE

120'

N00°22'01"E
1140.43'
MON TO 525

OF

SW/FRACT' NW

12

13

1/16 LINE

520 IP 554 519 512

518 IP 553 517 516 515 514 513

512-513
L = 208.49
LCH = 208.01
R = 895.40
LCB = N83°25'06"W

LIMEKILN RD

1/4 LINE

N89°54'41"E 2639.98' MON TO MON

CATO

NE/SW

SCHEDULE OF LANDS & INTERESTS REQUIRED

OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERSTS TO THE DEPARTMENT.

PARCEL NUMBER	OWNERS	INTEREST REQUIRED	R/W ACRES REQUIRED NEW	EXISTING	TOTAL
12	JOSEPH E. WELCH	FEE/AR	0.189	---	0.189
13	THE DONALD T. SHEAHAN & JOYCE R. SHEAHAN REVOCABLE TRUST	FEE/AR	0.710	---	0.710

UTILITY INTERESTS REQUIRED

UTILITY NUMBER	OWNER(S)	INTEREST REQUIRED
202	TIME WARNER CABLE MIDWEST LLC	RELEASE OF RIGHTS

(202) TIME WARNER CABLE MIDWEST LLC
NO EASEMENT OF RECORD - PAR 12

EXISTING MONUMENTS			
POINT	Y (NORTHING)	X (EASTING)	DESCRIPTION
IP 550	322339.232	169697.170	1.25" OD IP
IP 551	321018.477	171879.071	1.25" OD IP
IP 552	320951.960	172071.292	1.25" OD IP
IP 553	320785.127	171533.843	1.25" OD IP
IP 554	320940.390	171593.151	1.25" OD IP
IP 555	321908.904	169719.287	1.25" OD IP
IP 556	321847.912	169622.986	1.25" OD IP

FOUND 1" OD IP
Y=320710.747
X=169491.360

T 19 N R 22 E (6 5)

FOUND 1" OD IP
Y=320710.747
X=169491.360

T 19 N R 22 E (6 5)

Refer to the Title Sheet, recorded as Sheet 2 of 2, in Cabinet D of Plats, Jacket 70, as Document No. 1165117 for additional information

emcs LLC

I, KEVIN C. BOYER, PROFESSIONAL LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE DEPARTMENT, I HAVE SURVEYED TRANSPORTATION PROJECT PLAT 1500-33-21-4.05 AMENDMENT NO. 1 AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

Kevin C. Boyer DATE: 4/27/2016
KEVIN C. BOYER
PROFESSIONAL LAND SURVEYOR NUMBER 2675
THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION
(SIGNATURE) DATE: 4/28/2016
(PRINTED NAME) CURT

WISCONSIN KEVIN C BOYER S-2675 HEWITT WI LAND SURVEYOR

FILE NAME : P:\48xx\4816.DP.13.USH 10.MAN\CADDS\Plan\TPP\040105_rp_A1.dgn
APPRAISAL PLAT DATE :
PLOT DATE : 4/27/2016
PLOT BY : kcb
PLOT NAME :
PLOT SCALE : 1:100

1500-33-21-4.05 A1

DEPARTMENT COMPOSITE, ORIGINAL LOCATED AT THE REGISTER OF DEEDS OFFICE

TRANSPORTATION PROJECT PLAT NO: 1500-33-21 - 4.05

THAT PART OF THE SW1/4 OF THE FRACTIONAL NW1/4 AND PART OF THE SE1/4 OF THE FRACTIONAL NW1/4 OF SECTION 5, TOWNSHIP 19 NORTH, RANGE 22 EAST, TOWN OF CATO, MANITOWOC COUNTY, WISCONSIN

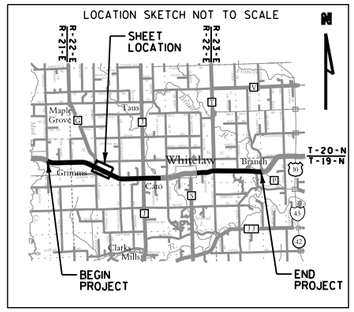
RELOCATION ORDER USH 10 MANITOWOC COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3), 84.09 AND 84.30, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:
1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE DEPARTMENT FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE STATE OF WISCONSIN, PURSUANT TO THE PROVISIONS OF SECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

FOR THE LATEST ACCESS/DRIVEWAY INFORMATION CONTACT THE PLANNING DEPARTMENT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE IN GREEN BAY

LOCATION SKETCH NOT TO SCALE



COURSE TABLE		
COURSE	BEARING	DISTANCE
500-501	S 62°39'24" E	236.27'
501-502	N 27°20'36" E	100.14'
502-503	S 62°39'45" E	570.50'
503-504	S 65°17'09" E	540.57'
504-505	S 54°50'10" E	181.69'
505-506	S 62°39'45" E	140.00'
506-507	S 71°26'07" E	161.90'
507-508	S 62°39'24" E	800.00'
508-509	S 76°30'47" E	154.50'
509-510	S 62°39'24" E	104.27'
510-511	S 00°38'28" W	181.34'
511-C SEC 5	S 00°38'28" W	59.04'
C 1/4 SEC 5-512	S 00°58'15" W	84.18'
512-513	SEE CURVE DATA ON SHEET	
513-514	S 89°54'41" W	64.62'
514-515	N 62°20'02" W	57.98'
515-516	S 89°54'41" W	158.05'
516-517	S 74°00'17" W	98.51'
517-518	N 16°34'11" W	125.14'
518-519	N 53°07'16" E	135.47'
519-520	N 21°48'19" W	91.72'
520-521	N 62°39'45" W	1054.68'
521-522	N 62°39'45" W	1054.69'
522-523	S 57°32'29" W	113.94'
523-524	N 87°25'34" W	64.62'
524-525	N 89°37'59" W	60.00'
525-500	N 00°22'01" E	283.46'

STATION & OFFSET TABLE		
POINT NO.	STATION	OFFSET
500	163+73.23	0.00'
501	166+09.50	0.00'
502	166+09.50	-100.14'
503	171+80.00	-100.20'
504	177+20.00	-125.00'
505	179+00.00	-100.28'
506	180+40.00	-100.29'
507	182+00.00	-125.00'
508	190+00.00	-125.00'
509	191+50.00	-162.00'
510	192+54.27	-162.00'
511	193+35.75	0.00'
C 1/4 SEC 5	193+62.28	52.74'
512	193+99.67	128.16'
513	192+05.17	201.89'
514	191+47.81	231.67'
515	190+89.83	231.34'
516	189+49.55	304.15'
517	188+77.90	371.76'
518	187+91.10	281.61'
519	188+50.02	159.62'
520	187+80.64	99.63'
521	177+25.96	99.74'
522	166+71.27	99.85'
523	166+13.96	198.33'
524	165+55.28	225.40'
525	165+01.81	252.62'

SCALE, FEET
0 100 200

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1500-33-21-4.05
AMENDMENT NO:

DOC # 1165498
VOL. 9 PG. 498

FOUND PK NAIL
Y=323411.742
X=169508.654

FOUND PK NAIL
Y=323413.912
X=172161.539

FOUND
1.25" OD IP
Y=320714.828
X=172131.339

S00°22'01"W
1277.16'
MON TO 500

S00°38'28"W
2458.83'
MON TO 510

N00°22'01"E
1140.43'
MON TO 525

N89°54'41"E 2639.98' MON TO MON

512-513
L = 208.49
LCH = 208.01
R = 895.40
LCB = N83°25'06"W

TOWN
NW/FRACT' NW
SW/FRACT' NW
SE/FRACT' NW
NE/SW
CATO
OF

1/16 LINE
1/4 LINE
PL
SECTION LINE
GRIMMS RD
LIMEKILN RD
USH 10
℄=S62°39'24"E
200'
120'

IP 550 IP 551 IP 552 IP 553 IP 554 IP 555 IP 556

165+00 170+00 175+00 180+00 185+00 190+00

SCHEDULE OF LANDS & INTERESTS REQUIRED

OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERSTS TO THE DEPARTMENT.

PARCEL NUMBER	OWNERS	INTEREST REQUIRED	R/W ACRES REQUIRED NEW	EXISTING	TOTAL
12	JOSEPH E. WELCH	FEE/AR	0.189	---	0.189
13	THE DONALD T. SHEAHAN & JOYCE R. SHEAHAN REVOCABLE TRUST	FEE/AR	0.710	---	0.710

UTILITY INTERESTS REQUIRED

UTILITY NUMBER	OWNER(S)	INTEREST REQUIRED
202	TIME WARNER CABLE MIDWEST LLC	RELEASE OF RIGHTS

(202) TIME WARNER CABLE MIDWEST LLC
NO EASEMENT OF RECORD - PAR 12

EXISTING MONUMENTS			
POINT	Y (NORTHING)	X (EASTING)	DESCRIPTION
IP 550	322339.232	169697.170	1.25" OD IP
IP 551	321018.477	171879.071	1.25" OD IP
IP 552	320951.960	172071.292	1.25" OD IP
IP 553	320785.127	171533.843	1.25" OD IP
IP 554	320940.390	171593.151	1.25" OD IP
IP 555	321908.904	169719.287	1.25" OD IP
IP 556	321847.912	169622.986	1.25" OD IP

FOUND 1" OD IP
Y=320710.747
X=169491.360

FOUND 1" OD IP
Y=320710.747
X=169491.360

Refer to the Title Sheet, recorded as Sheet 2 of 2, in Cabinet D of Plats, Jacket 70, as Document No. 1165117 for additional information

emcs LLC

I, KEVIN C. BOYER, PROFESSIONAL LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE DEPARTMENT, I HAVE SURVEYED TRANSPORTATION PROJECT PLAT 1500-33-21-4.05 AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

Kevin C. Boyer DATE: 2/10/2016
KEVIN C. BOYER
PROFESSIONAL LAND SURVEYOR NUMBER 2675
THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION
(SIGNATURE) DATE: 2/16/2016
(PRINTED NAME) CURT

FILE NAME : P:\48xx\4816.DP.13.USH 10.MAN\CADDS\Plan\TPP\040105_rp.dgn
APPRAISAL PLAT DATE :
PLOT DATE : 2/10/2016
PLOT BY : kcb
PLOT NAME :
PLOT SCALE : 1:100

1500-33-21-4.05

DEPARTMENT COMPOSITE, ORIGINAL LOCATED AT THE REGISTER OF DEEDS OFFICE

TRANSPORTATION PROJECT PLAT NO: 1500-33-21 - 4.06 AMENDMENT NO. 1

AMENDS PARCEL NO: 16 OF TRANSPORTATION PROJECT PLAT NO: 1500-33-21-4.06 RECORDED AS DOCUMENT NO: 1165499. THAT PART OF THE SW1/4 OF THE FRACTIONAL NE1/4, PART OF THE NW1/4 OF THE SE1/4 AND PART OF THE NE1/4 OF THE SE1/4 OF SECTION 5, TOWNSHIP 19 NORTH, RANGE 22 EAST, TOWN OF CATO, MANITOWOC COUNTY, WISCONSIN

RELOCATION ORDER USH 10 MANITOWOC COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3), 84.09 AND 84.30, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:
1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE DEPARTMENT FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE STATE OF WISCONSIN, PURSUANT TO THE PROVISIONS OF SECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

FOR THE LATEST ACCESS/DRIVEWAY INFORMATION CONTACT THE PLANNING DEPARTMENT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE IN GREEN BAY

SCHEDULE OF LANDS & INTERESTS REQUIRED

OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERSTS TO THE DEPARTMENT.

PARCEL NUMBER	OWNERS	INTEREST REQUIRED	R/W ACRES REQUIRED NEW	EXISTING	TOTAL
14	MARJORIE BODWIN	FEE	0.524	---	0.524
16	RANDALL J. & LINDA E. MEYER	FEE	0.712	---	0.712

UTILITY INTERESTS REQUIRED

UTILITY NUMBER	OWNER(S)	INTEREST REQUIRED
202	TIME WARNER CABLE MIDWEST LLC	RELEASE OF RIGHTS

(202) TIME WARNER CABLE MIDWEST LLC
NO EASEMENT OF RECORD - PAR 16

DOC # 1167766
VOL 91167 PG 766
PLAT
2016 MAY 4 @ 9:00AM
TRANSPORTATION PROJECT PLAT 1500-33-21-4.06 AMENDMENT NO 1

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1500-33-21-4.06
AMENDMENT NO: 1

FOUND RR SPIKE
Y=320718.442
X=174790.162

T 19 N R 22 E S 5 4

S00°50'03"E
825.95'
MON TO 613

TOWN OF CATO

SW/FRACT'NE

1/4 LINE

USH 10
CURVE 3 DATA
PI = 223+02.89
Y = 319410.992
X = 174767.614
T = 678.16
L = 1331.80
R = 2864.79
DELTA = 26°38'10" LT
D = 2°00'00"
LCH = 1319.84
LCB = S75°58'29"E
PT = 229+56.53
DA = S89°17'34"E

33' INGRESS/EGRESS EASEMENT
VOL 882 PG 409
DOC 636470

EXISTING MONUMENTS			
POINT	Y (NORTHING)	X (EASTING)	DESCRIPTION
IP 650	320804.925	172333.509	1.25" OD IP
IP 651	320686.803	172497.339	1.25" OD IP
IP 652	319585.550	174658.846	1.25" OD IP
IP 653	319600.579	174742.251	1.25" OD IP
IP 654	319731.663	174764.373	1.25" OD IP
IP 655	319321.641	174756.194	1.25" OD IP

MENCHALVILLE RD
SECTION LINE

NE/SE

VARIES

195+00 200+00 205+00 210+00 215+00 220+00

USH 10

R=S62°39'24"E

CURVE 3

PC STA216+24.73

STA 194+63.94
Y=320714.983
X=172245.861

628-629
L = 211.38
LCH = 210.89
R = 895.40
LCB = N69°59'06"W

NW/SE

TRACT 1
CSM
V 8 P 637
DOC 548462

1/16 LINE

OF

617-618
L = 671.37
LCH = 655.17
R = 879.00
LCB = N67°44'27"W

SE/SE

CATO

FOUND
1.25" OD IP
Y=320714.828
X=172131.339

N00°58'15"E
2550.02'
MON TO 629

FOUND
2.5" OD IP
Y=318081.004
X=172086.702

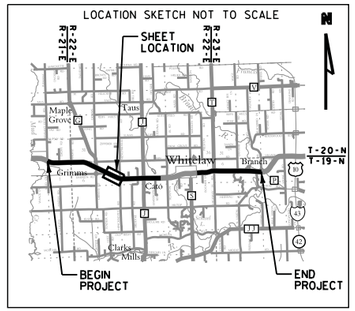
COURSE TABLE		
COURSE	BEARING	DISTANCE
C 1/4 SEC 5-600	N 00°38'28" E	59.04'
600-601	N 00°38'28" E	181.34'
601-602	S 62°39'24" E	175.73'
602-603	S 49°43'27" E	277.03'
603-604	S 62°39'24" E	1002.00'
604-605	S 88°17'52" E	27.73'
605-606	S 62°39'24" E	32.00'
606-607	S 37°00'56" E	27.73'
607-608	S 62°39'24" E	136.00'
608-609	S 59°00'16" E	470.96'
609-610	S 66°04'55" E	502.11'
610-611	S 66°52'13" E	97.10'
611-612	S 76°14'55" E	211.14'
612-630	N 09°39'13" E	132.84'
630-631	N 00°50'03" W	160.48'
631-613	N 89°09'57" E	40.00'
613-614	S 00°50'03" E	410.07'
614-615	S 00°50'03" E	161.35'
615-616	S 89°09'57" W	54.12'
616-617	N 89°37'18" W	284.48'
617-618	SEE CURVE DATA ON SHEET	
618-619	N 50°07'50" W	381.19'
619-620	N 40°18'03" W	174.81'
620-621	N 53°46'55" W	212.88'
621-622	N 63°13'19" W	236.25'
622-623	N 51°17'33" W	101.59'
623-624	N 63°13'19" W	119.60'
624-625	N 26°46'41" E	3.00'
625-626	N 63°13'19" W	168.00'
626-627	N 84°04'35" W	67.42'
627-628	N 63°13'19" W	389.20'
628-629	SEE CURVE DATA ON SHEET	
629-C 1/4 SEC 5	N 00°58'15" E	84.18'

STATION & OFFSET TABLE		
POINT NO.	STATION	OFFSET
600	193+35.75	0.00'
601	192+54.27	-162.00
602	194+30.00	-162.00'
603	197+00.00	-100.00'
604	207+02.00	-100.00'
605	207+27.00	-112.00'
606	207+59.00	-112.00'
607	207+84.00	-100.00'
608	209+20.00	-100.00'
609	213+90.00	-70.00'
610	219+00.00	-87.19'
611	220+00.00	-83.30'
612	222+17.57	-97.71'
613	221+94.13	-395.04'
614	223+12.62	0.00'
615	223+50.72	156.54'
616	223+01.06	169.77'
617	220+46.10	248.21'
618	214+28.36	272.65'
619	210+56.24	189.98'
620	208+94.57	123.49'
621	206+84.24	90.65'
622	204+48.00	92.98'
623	203+48.40	72.96'
624	202+28.80	74.14'
625	202+28.77	71.14'
626	200+60.78	72.80'
627	199+98.02	97.42'
628	196+08.84	101.26'
629	193+99.67	128.16'
630	222+02.90	-229.83'
631	221+49.93	-383.19'
C 1/4 SEC 5	193+62.28	52.74'

Refer to the Title Sheet, recorded as Sheet 2 of 2, in Cabinet D of Plats, Jacket 70, as Document No. 1165117 for additional information

SCALE, FEET
0 100 200

LOCATION SKETCH NOT TO SCALE



emcs, LLC

I, KEVIN C. BOYER, PROFESSIONAL LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE DEPARTMENT, I HAVE SURVEYED TRANSPORTATION PROJECT PLAT 1500-33-21-4.06 AMENDMENT NO. 1 AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

Kevin C. Boyer DATE: 4/27/2016
KEVIN C. BOYER
PROFESSIONAL LAND SURVEYOR NUMBER 2675
THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION
(SIGNATURE) DATE: 4/28/2016
(PRINTED NAME) CURT

WISCONSIN KEVIN C BOYER S-2675 HEWITT WI LAND SURVEYOR

FILE NAME : P:\48xx\4816.DP.13.USH 10.MAN\CADDS\Plan\TPP\040106_rp_A1.dgn
APPRAISAL PLAT DATE :
PLOT DATE : 4/27/2016
PLOT BY : kcb
PLOT NAME :
PLOT SCALE : 1:100

1500-33-21-4.06 A1

DEPARTMENT COMPOSITE, ORIGINAL LOCATED AT THE REGISTER OF DEEDS OFFICE

TRANSPORTATION PROJECT PLAT NO: 1500-33-21 - 4.06

THAT PART OF THE SW1/4 OF THE FRACTIONAL NE1/4, PART OF THE NW1/4 OF THE SE1/4 AND PART OF THE NE1/4 OF THE SE1/4 OF SECTION 5, TOWNSHIP 19 NORTH, RANGE 22 EAST, TOWN OF CATO, MANITOWOC COUNTY, WISCONSIN

RELOCATION ORDER USH 10 MANITOWOC COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3), 84.09 AND 84.30, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:
1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE DEPARTMENT FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE STATE OF WISCONSIN, PURSUANT TO THE PROVISIONS OF SECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

FOR THE LATEST ACCESS/DRIVEWAY INFORMATION CONTACT THE PLANNING DEPARTMENT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE IN GREEN BAY

SCHEDULE OF LANDS & INTERESTS REQUIRED

OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERSTS TO THE DEPARTMENT.

PARCEL NUMBER	OWNERS	INTEREST REQUIRED	R/W ACRES REQUIRED NEW	EXISTING	TOTAL	TLE ACRES
14	MARJORIE BODWIN	FEE	0.524	---	0.524	---
16	RANDALL J. & LINDA E. MEYER	FEE/TLE	0.712	---	0.712	0.045

ALL TLES SHOWN ON THIS SHEET ARE FOR SLOPE GRADING

UTILITY INTERESTS REQUIRED

UTILITY NUMBER	OWNER(S)	INTEREST REQUIRED
202	TIME WARNER CABLE MIDWEST LLC	RELEASE OF RIGHTS

(202) TIME WARNER CABLE MIDWEST LLC
NO EASEMENT OF RECORD - PAR 16

EXISTING MONUMENTS			
POINT	Y (NORTHING)	X (EASTING)	DESCRIPTION
IP 650	320804.925	172333.509	1.25" OD IP
IP 651	320686.803	172497.339	1.25" OD IP
IP 652	319585.550	174658.846	1.25" OD IP
IP 653	319600.579	174742.251	1.25" OD IP
IP 654	319731.663	174764.373	1.25" OD IP
IP 655	319321.641	174756.194	1.25" OD IP

STATE OF WI - MTWC DOC
PAGES/TITLES/INDEX PAGES/SEALS
RECORDED FOR RECORD
REQUESTED BY
DOC # 1165499
VOL. 911/65 PG. 499

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1500-33-21-4.06
AMENDMENT NO:

FOUND RR SPIKE
Y=320718.442
X=174790.162

T 19 N, 5, 4, R 22 E

40'

S00°50'03"E
825.95'
MON TO 613

TOWN

SW/FRACT'NE

1/4 LINE

USH 10
CURVE 3 DATA
PI = 223+02.89
Y = 319410.992
X = 174767.614
T = 678.16
L = 1331.80
R = 2864.79
DELTA = 26°38'10" LT
D = 2°00'00"
LCH = 1319.84
LCB = S75°58'29"E
PT = 229+56.53
DA = S89°17'34"E

33' INGRESS/EGRESS EASEMENT
VOL 882 PG 409
DOC 636470

NE/SE

MENCHALVILLE RD

SECTION LINE

IP 650
IP 651
IP 652
IP 653
IP 654
IP 655

195+00 200+00 205+00 210+00 215+00 220+00

USH 10

CURVE 3

R=S62°39'24"E

PC STA216+24.73

STA 194+63.94
Y=320714.983
X=172245.861

628-629
L = 211.38
LCH = 210.89
R = 895.40
LCB = N69°59'06"W

FOUND
1.25" OD IP
Y=320714.828
X=172131.339

N00°58'15"E
2550.02'
MON TO 629

PL 1/4 LINE

NW/SE

TRACT 1
CSM
V 8 P 637
DOC 548462

1/16 LINE

OF

617-618
L = 671.37
LCH = 655.17
R = 879.00
LCB = N67°44'27"W

SE/SE

CATO

SCALE, FEET
0 100 200

FOUND
2.5" OD IP
Y=318081.004
X=172086.702

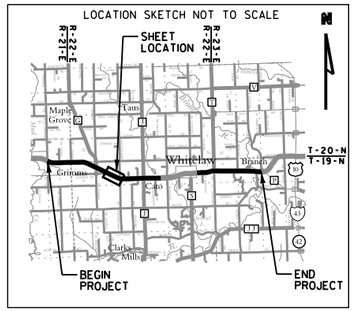
T 19 N, 5, 8, R 22 E

COURSE TABLE		
COURSE	BEARING	DISTANCE
C 1/4 SEC 5-600	N 00°38'28" E	59.04'
600-601	N 00°38'28" E	181.34'
601-602	S 62°39'24" E	175.73'
602-603	S 49°43'27" E	277.03'
603-604	S 62°39'24" E	1002.00'
604-605	S 88°17'52" E	27.73'
605-606	S 62°39'24" E	32.00'
606-607	S 37°00'56" E	27.73'
607-608	S 62°39'24" E	136.00'
608-609	S 59°00'16" E	470.96'
609-610	S 66°04'55" E	502.11'
610-611	S 66°52'13" E	97.10'
611-612	S 76°14'55" E	211.14'
612-630	N 09°39'13" E	132.84'
630-631	N 00°50'03" W	160.48'
631-613	N 89°09'57" E	40.00'
613-614	S 00°50'03" E	410.07'
614-615	S 00°50'03" E	161.35'
615-616	S 89°09'57" W	54.12'
616-617	N 89°37'18" W	284.48'
617-618	SEE CURVE DATA ON SHEET	
618-619	N 50°07'50" W	381.19'
619-620	N 40°18'03" W	174.81'
620-621	N 53°46'55" W	212.88'
621-622	N 63°13'19" W	236.25'
622-623	N 51°17'33" W	101.59'
623-624	N 63°13'19" W	119.60'
624-625	N 26°46'41" E	3.00'
625-626	N 63°13'19" W	168.00'
626-627	N 84°04'35" W	67.42'
627-628	N 63°13'19" W	389.20'
628-629	SEE CURVE DATA ON SHEET	
629-C 1/4 SEC 5	N 00°58'15" E	84.18'

STATION & OFFSET TABLE		
POINT NO.	STATION	OFFSET
600	193+35.75	0.00'
601	192+54.27	-162.00
602	194+30.00	-162.00'
603	197+00.00	-100.00'
604	207+02.00	-100.00'
605	207+27.00	-112.00'
606	207+59.00	-112.00'
607	207+84.00	-100.00'
608	209+20.00	-100.00'
609	213+90.00	-70.00'
610	219+00.00	-87.19'
611	220+00.00	-83.30'
612	222+17.57	-97.71'
613	221+94.13	-395.04'
614	223+12.62	0.00'
615	223+50.72	156.54'
616	223+01.06	169.77'
617	220+46.10	248.21'
618	214+28.36	272.65'
619	210+56.24	189.98'
620	208+94.57	123.49'
621	206+84.24	90.65'
622	204+48.00	92.98'
623	203+48.40	72.96'
624	202+28.80	74.14'
625	202+28.77	71.14'
626	200+60.78	72.80'
627	199+98.02	97.42'
628	196+08.84	101.26'
629	193+99.67	128.16'
630	222+02.90	-229.83'
631	221+49.93	-383.19'
C 1/4 SEC 5	193+62.28	52.74'

Refer to the Title Sheet, recorded as Sheet 2 of 2, in Cabinet D of Plats, Jacket 70, as Document No. 1165117 for additional information

LOCATION SKETCH NOT TO SCALE



emcs, inc

I, KEVIN C. BOYER, PROFESSIONAL LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE DEPARTMENT, I HAVE SURVEYED TRANSPORTATION PROJECT PLAT 1500-33-21-4.06 AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

Kevin C. Boyer DATE: 2/10/2016
KEVIN C. BOYER
PROFESSIONAL LAND SURVEYOR NUMBER 2675
THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION
(SIGNATURE) DATE: 2/16/2016
(PRINTED NAME) CURT

WISCONSIN KEVIN C BOYER S-2675 NEWITT WI LAND SURVEYOR

1500-33-21-4.06

FILE NAME : P:\48xx\4816.DP.13.USH 10.MAN\CADDS\Plan\TPP\040106_rp.dgn
APPRAISAL PLAT DATE :
PLOT DATE : 2/10/2016
PLOT BY : kcb
PLOT NAME :
PLOT SCALE : 1:100

DEPARTMENT COMPOSITE, ORIGINAL LOCATED AT THE REGISTER OF DEEDS OFFICE

TRANSPORTATION PROJECT PLAT NO: 1500-33-21 - 4.07 AMENDMENT NO. 1

AMENDS PARCEL NO: 17 AND 18 OF TRANSPORTATION PROJECT PLAT 1500-33-21-4.07 RECORDED AS DOCUMENT NO: 1165500. THAT PART OF THE NW1/4 OF THE SW1/4 AND PART OF THE NE1/4 OF THE SW1/4 OF SECTION 4, TOWNSHIP 19 NORTH, RANGE 22 EAST, TOWN OF CATO, MANITOWOC COUNTY, WISCONSIN

RELOCATION ORDER USH 10 MANITOWOC COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.

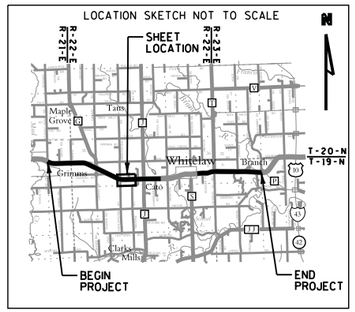
TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3), 84.09 AND 84.30, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:
1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE DEPARTMENT FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE STATE OF WISCONSIN, PURSUANT TO THE PROVISIONS OF SECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

SCHEDULE OF LANDS & INTERESTS REQUIRED

OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERSTS TO THE DEPARTMENT.

PARCEL NUMBER	OWNERS	INTEREST REQUIRED	R/W ACRES REQUIRED NEW	EXISTING	TOTAL
17	WILLIAM J. & ELIZABETH FRITSCH	FEE	0.339	---	0.339
18	WILLIAM J. IV & CHERYL FRITSCH	FEE	0.243	---	0.243

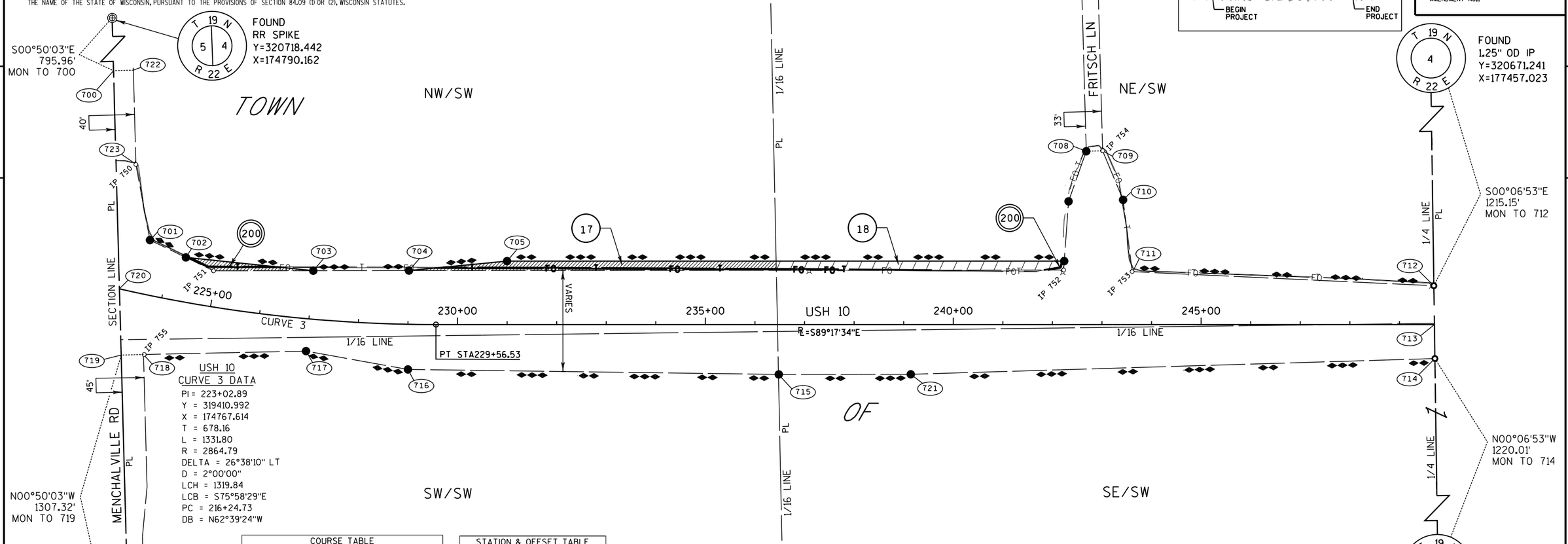
FOR THE LATEST ACCESS/DRIVEWAY INFORMATION CONTACT THE PLANNING DEPARTMENT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE IN GREEN BAY



DOC # 1167767
VOL: 91167 PG 767
PLAT
2016 MAY 4 @ 9:00AM
TRANSPORTATION PROJECT PLAT 1500-33-21-4.07 AMENDMENT NO 1

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1500-33-21-4.07
AMENDMENT NO:1

4



COURSE TABLE		
COURSE	BEARING	DISTANCE
700-722	N 89°09'57" E	40.00'
722-723	S 00°50'03" E	190.34'
723-701	S 09°49'51" E	154.99'
701-702	S 63°32'26" E	80.47'
702-703	S 83°21'22" E	258.34'
703-704	S 89°20'34" E	193.07'
704-705	N 85°11'03" E	198.78'
705-706	S 89°17'34" E	1123.87'
706-707	N 04°52'25" E	120.77'
707-708	N 20°10'09" E	107.16'
708-709	N 89°05'28" E	33.00'
709-710	S 21°56'32" E	107.16'
710-711	S 06°32'19" E	145.90'
711-712	S 86°36'50" E	609.11'
712-713	S 00°06'53" E	78.33'
713-714	S 00°06'53" E	68.50'
714-721	S 88°59'12" W	1057.67'
721-715	N 89°20'34" W	266.26'
715-716	N 88°31'27" W	748.16
716-717	N 79°05'38" W	208.87'
717-718	S 89°30'20" W	327.90'
718-719	S 89°09'57" W	45.00'
719-720	N 00°50'03" W	133.66'
720-700	N 00°50'03" W	440.06'

STATION & OFFSET TABLE		
POINT NO.	STATION	OFFSET
700	221+83.97	-423.73'
701	223+52.28	-109.32'
702	224+33.00	-89.20'
703	227+00.00	-97.61'
704	229+00.00	-108.33'
705	231+00.00	-128.00'
706	242+23.87	-128.00'
707	242+32.65	-248.45'
708	242+68.35	-349.49'
709	243+01.34	-350.42'
710	243+42.60	-251.53'
711	243+61.00	-106.79'
712	249+69.45	-78.32'
713	249+70.58	0.00'
714	249+71.56	68.49'
715	236+48.10	100.48'
716	229+01.75	90.99'
717	226+99.93	65.21'
718	223+86.42	119.23'
719	223+44.46	129.63'
720	223+12.62	0.00'
721	239+14.36	100.25'
722	222+29.07	-435.12'
723	222+86.92	-251.70'

(200) FRONTIER NORTH INC.
DOC 717934 - PAR 17
DOC 717935 - PAR 18

(203) AMERICAN TRANSMISSION COMPANY, LLC, A WISCONSIN LIMITED LIABILITY COMPANY
DOC 355407 - PAR 17
DOC 356283 - PAR 18

UTILITY INTERESTS REQUIRED

UTILITY NUMBER	OWNER(S)	INTEREST REQUIRED
200	FRONTIER NORTH INC.	RELEASE OF RIGHTS
203	AMERICAN TRANSMISSION COMPANY, LLC. A WISCONSIN LIMITED LIABILITY COMPANY	RELEASE OF RIGHTS

EXISTING MONUMENTS			
POINT	Y (NORTHING)	X (EASTING)	DESCRIPTION
IP 750	319732.708	174844.466	1.25" OD IP
IP 751	319516.675	174998.439	1.25" OD IP
IP 752	319497.040	176713.144	1.25" OD IP
IP 753	319492.188	176851.244	1.25" OD IP
IP 754	319736.587	176794.749	1.25" OD IP
IP 755	319349.491	174856.547	1.25" OD IP

GN

SCALE, FEET
0 100 200

Refer to the Title Sheet, recorded as Sheet 2 of 2, in Cabinet D of Plats, Jacket 70, as Document No. 1165117 for additional information

emcs, INC

I, KEVIN C. BOYER, PROFESSIONAL LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE DEPARTMENT, I HAVE SURVEYED TRANSPORTATION PROJECT PLAT 1500-33-21-4.07 AMENDMENT NO, 1 AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

Kevin C. Boyer DATE: 4/27/2016
KEVIN C. BOYER
PROFESSIONAL LAND SURVEYOR NUMBER 2675
THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION
(SIGNATURE) DATE: 4/28/2016
(PRINTED NAME) CURT

WISCONSIN KEVIN C BOYER S-2675 HEWITT WI LAND SURVEYOR

63

FILE NAME : P:\48xx\4816.DP.13.USH 10.MAN\CADDS\Plan\TPP\040107_rp_A1.dgn
APPRAISAL PLAT DATE :
PLOT DATE : 4/27/2016
PLOT BY : kcb
PLOT NAME :
PLOT SCALE : 1:100

1500-33-21-4.07 A1

DEPARTMENT COMPOSITE, ORIGINAL LOCATED AT THE REGISTER OF DEEDS OFFICE

TRANSPORTATION PROJECT PLAT NO: 1500-33-21 - 4.07

THAT PART OF THE NW1/4 OF THE SW1/4 AND PART OF THE NE1/4 OF THE SW1/4 OF SECTION 4, TOWNSHIP 19 NORTH, RANGE 22 EAST, TOWN OF CATO, MANITOWOC COUNTY, WISCONSIN

RELOCATION ORDER USH 10 MANITOWOC COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3), 84.09 AND 84.30, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:
1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE DEPARTMENT FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE STATE OF WISCONSIN, PURSUANT TO THE PROVISIONS OF SECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

SCHEDULE OF LANDS & INTERESTS REQUIRED

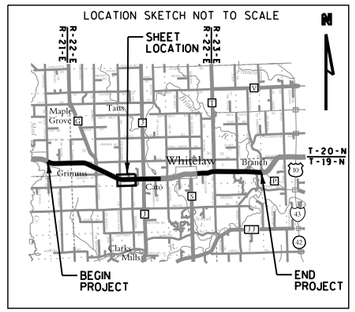
OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERSTS TO THE DEPARTMENT.

PARCEL NUMBER	OWNERS	INTEREST REQUIRED	R/W ACRES REQUIRED NEW	EXISTING	TOTAL	TLE ACRES
17	WILLIAM J. & ELIZABETH FRITSCH	FEE/TLE	0.339	---	0.339	0.053
18	WILLIAM J. IV & CHERYL FRITSCH	FEE/TLE	0.243	---	0.243	0.018

FOR THE LATEST ACCESS/DRIVEWAY INFORMATION CONTACT THE PLANNING DEPARTMENT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE IN GREEN BAY

ALL TLES SHOWN ON THIS SHEET ARE FOR SLOPE GRADING

LOCATION SKETCH NOT TO SCALE



STATE OF WI: MTWC 20
PRESTON JOWES REGISTER OF DEEDS
RECEIVED FOR RECORD
02/25/2016 4:00:00 PM

DOC # 1165510
VOL. 9116.5 PG. 500

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1500-33-21-4.07
AMENDMENT NO:

S00°50'03"E 795.96' MON TO 700

FOUND RR SPIKE Y=320718.442 X=174790.162

T 19 N, 5, 4, R 22 E

TOWN

NW/SW

NE/SW

SW/SW

SE/SW

OF

CATO

1/16 LINE

1/4 LINE

SECTION LINE

FRITSCH LN

MENCHALVILLE RD

USH 10

CURVE 3

PI = 223+02.89
Y = 319410.992
X = 174767.614
T = 678.16
L = 1331.80
R = 2864.79
DELTA = 26°38'10" LT
D = 2°00'00"
LCH = 1319.84
LCB = S75°58'29"E
PC = 216+24.73
DB = N62°39'24"W

R=S89°17'34"E

PT STA229+56.53

VARIES

40'

33'

45'

PL

FO

FOT

TLE770
TLE771
TLE772
TLE773

IP 750
IP 751
IP 752
IP 753
IP 754
IP 755

225+00
230+00
235+00
240+00
245+00

N00°50'03"W 1307.32' MON TO 719

FOUND 1.25" OD IP Y=318041.727 X=174829.136

T 19 N, 5, 4, 8, 9, R 22 E

Refer to the Title Sheet, recorded as Sheet 2 of 2, in Cabinet D of Plats, Jacket 70, as Document No. 1165117 for additional information

FOUND 1.25" OD IP Y=320671.241 X=177457.023

T 19 N, 4, R 22 E

S00°06'53"E 1215.15' MON TO 712

N00°06'53"W 1220.01' MON TO 714

ESTABLISHED FROM TIES Y=318089.253 X=177462.197

T 19 N, 4, 9, R 22 E

COURSE TABLE		
COURSE	BEARING	DISTANCE
700-722	N 89°09'57" E	40.00'
722-723	S 00°50'03" E	190.34'
723-701	S 09°49'51" E	154.99'
701-702	S 63°32'26" E	80.47'
702-703	S 83°21'22" E	258.34'
703-704	S 89°20'34" E	193.07'
704-705	N 85°11'03" E	198.78'
705-706	S 89°17'34" E	1123.87'
706-707	N 04°52'25" E	120.77'
707-708	N 20°10'09" E	107.16'
708-709	N 89°05'28" E	33.00'
709-710	S 21°56'32" E	107.16'
710-711	S 06°32'19" E	145.90'
711-712	S 86°36'50" E	609.11'
712-713	S 00°06'53" E	78.33'
713-714	S 00°06'53" E	68.50'
714-721	S 88°59'12" W	1057.67'
721-715	N 89°20'34" W	266.26'
715-716	N 88°31'27" W	748.16
716-717	N 79°05'38" W	208.87'
717-718	S 89°30'20" W	327.90'
718-719	S 89°09'57" W	45.00'
719-720	N 00°50'03" W	133.66'
720-700	N 00°50'03" W	440.06'

STATION & OFFSET TABLE		
POINT NO.	STATION	OFFSET
700	221+83.97	-423.73'
701	223+52.28	-109.32'
702	224+33.00	-89.20'
703	227+00.00	-97.61'
704	229+00.00	-108.33'
705	231+00.00	-128.00'
706	242+23.87	-128.00'
707	242+32.65	-248.45'
708	242+68.35	-349.49'
709	243+01.34	-350.42'
710	243+42.60	-251.53'
711	243+61.00	-106.79'
712	249+69.45	-78.32'
713	249+70.58	0.00'
714	249+71.56	68.49'
715	236+48.10	100.48'
716	229+01.75	90.99'
717	226+99.93	65.21'
718	223+86.42	119.23'
719	223+44.46	129.63'
720	223+12.62	0.00'
721	239+14.36	100.25'
722	222+29.07	-435.12'
723	222+86.92	-251.70'

200 FRONTIER NORTH INC.
DOC 717934 - PAR 17
DOC 717935 - PAR 18

203 AMERICAN TRANSMISSION COMPANY, LLC. A WISCONSIN LIMITED LIABILITY COMPANY
DOC 355407 - PAR 17
DOC 356283 - PAR 18

UTILITY INTERESTS REQUIRED

UTILITY NUMBER	OWNER(S)	INTEREST REQUIRED
200	FRONTIER NORTH INC.	RELEASE OF RIGHTS
203	AMERICAN TRANSMISSION COMPANY, LLC. A WISCONSIN LIMITED LIABILITY COMPANY	RELEASE OF RIGHTS

EXISTING MONUMENTS			
POINT	Y (NORTHING)	X (EASTING)	DESCRIPTION
IP 750	319732.708	174844.466	1.25" OD IP
IP 751	319516.675	174998.439	1.25" OD IP
IP 752	319497.040	176713.144	1.25" OD IP
IP 753	319492.188	176851.244	1.25" OD IP
IP 754	319736.587	176794.749	1.25" OD IP
IP 755	319349.491	174856.547	1.25" OD IP

TLE STATION & OFFSET TABLE		
POINT NO.	STATION	OFFSET
TLE770	242+18.86	-128.00'
TLE771	242+27.71	-249.49'
TLE772	242+39.43	-282.66'
TLE773	242+44.82	-282.91'

GN

SCALE, FEET
0 100 200

emcs.inc

I, KEVIN C. BOYER, PROFESSIONAL LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE DEPARTMENT, I HAVE SURVEYED TRANSPORTATION PROJECT PLAT 1500-33-21-4.07 AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

Kevin C. Boyer DATE: 2/10/2016
KEVIN C. BOYER
PROFESSIONAL LAND SURVEYOR NUMBER 2675
THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION

(SIGNATURE) DATE: 2/16/2016
(PRINTED NAME) CURT 64

KEVIN G BOYER S-2675 HEWITT WI LAND SURVEYOR

FILE NAME : P:\48xx\4816.DP.13.USH 10.MAN\CADDS\Plan\TPP\040107_rp.dgn
APPRAISAL PLAT DATE :
PLOT DATE : 2/10/2016
PLOT BY : kcb
PLOT NAME :
PLOT SCALE : 1:100

1500-33-21-4.07

DEPARTMENT COMPOSITE, ORIGINAL LOCATED AT THE REGISTER OF DEEDS OFFICE

TRANSPORTATION PROJECT PLAT NO: 1500-33-21 - 4.08

THAT PART OF THE NW1/4 OF THE SE1/4, THE SW1/4 OF THE SE1/4, THE NE1/4 OF THE SE1/4, AND THE SE1/4 OF THE SE1/4 OF SECTION 4, TOWNSHIP 19 NORTH, RANGE 22 EAST, TOWN OF CATO, MANITOWOC COUNTY, WISCONSIN

RELOCATION ORDER USH 10 MANITOWOC COUNTY

THE STATE OF WISCONSIN HAS DEEMED IT NECESSARY TO MONUMENT RIGHT-OF-WAY INTERESTS PREVIOUSLY ACQUIRED UNDER SECTIONS 82.01, 82.31(1), 82.31(2), AND 84.09 OF THE WISCONSIN STATE STATUTES AND DOES HEREBY CERTIFY THE DEPARTMENT OF TRANSPORTATION HAS SURVEYED THE HIGHWAY RIGHT-OF-WAY; THAT THIS PLAT IS A TRUE AND CORRECT REPRESENTATION OF THE EXTERIOR BOUNDARIES OF THE LAND SURVEYED AND SHOWS ACCURATE MEASUREMENTS THEREOF.

FOR THE LATEST ACCESS/DRIVEWAY INFORMATION CONTACT THE PLANNING DEPARTMENT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE IN GREEN BAY

EXISTING MONUMENTS			
POINT	Y (NORTHING)	X (EASTING)	DESCRIPTION
IP 850	319461.546	178691.181	1.25" OD IP
IP 851	319484.011	178745.426	1.25" OD IP
IP 852	319466.681	178898.142	1.25" OD IP
IP 853	319470.168	179040.857	1.25" OD IP
IP 854	319494.272	179110.616	1.25" OD IP
IP 855	319472.069	179128.667	1.25" OD IP
IP 856	319473.906	179201.648	1.25" OD IP
IP 857	319493.061	179753.823	1.25" OD IP
IP 858	319521.094	180074.107	1.25" OD IP
IP 859	319168.092	178822.665	1.25" OD IP

STATE OF WI - MANITOWOC COUNTY REGISTER OF DEEDS RECEIVED FOR RECORD ON MARCH 3, 2016 AT 1:55 PM

DOC # 1165501

VOL. 2116.5 PG. 501

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1500-33-21-4.08
AMENDMENT NO:

TOWN

FOUND
1.25" OD IP
Y=320671.241
X=177457.023

T 19 N R 22 E Sec 4

S00°06'53"E
1215.15'
MON TO 800

N00°06'53"W
1220.01'
MON TO 833

1/4 LINE

ESTABLISHED
FROM TIES
Y=318089.253
X=177462.197

T 19 N R 22 E Sec 4 9

1/16 LINE

BRODTKE RD

49.5'

PL

NW/SE

OF

PC STA252+04.19

PT STA256+13.52

50+00

255+00

260+00

265+00

270+00

275+00

USH 10

CURVE 4

R=S89°17'34"E

R=N88°39'38"E

VARIES

PAINTER LN

55.9'

50'

NE/SE

ELEVATOR RD

49.5'

VARIES

PC STA266+62.95

PT STA270+51.30

CURVE 5

CTH J

SECTION LINE

ESTABLISHED FROM TIES
Y=320604.540
X=180132.580

T 19 N R 22 E Sec 4 3

S00°43'56"W
1084.33'
MON TO 818

N00°43'56"E
1115.45'
MON TO 820

FOUND
PK NAIL
Y=318093.480
X=180100.491

T 19 N R 22 E Sec 4 3 9 10

IP 850 IP 851 IP 852 IP 853 IP 854 IP 855 IP 856 IP 857 IP 858 IP 859

800 801 802 803 804 805 806 807 808 809 810 811 812 813 814 815 816 817 818 819 820 821 822 823 824 825 826 827 828 829 830 831 832 833 834 835

SW/SE

SE/SE

CATO

USH 10
CURVE 4 DATA
PI= 254+08.88
Y = 319372.347
X = 177897.883
T = 204.69
L = 409.33
R = 11459.16
DELTA = 02°02'48" LT
D = 00°30'00"
LCH = 409.31
LCB = N89°41'02"E

USH 10
CURVE 5 DATA
PI= 268+57.15
Y = 319406.199
X = 179345.799
T = 194.20
L = 388.35
R = 11459.16
DELTA = 01°56'30" RT
D = 00°30'00"
LCH = 388.34
LCB = N89°37'54"E

STATION & OFFSET TABLE		
POINT NO.	STATION	OFFSET
800	249+69.45	-78.32'
801	252+35.12	-65.86'
802	262+03.89	-70.64'
803	262+56.76	-90.95'
804	262+84.18	-153.07'
805	263+33.70	-153.08'
806	263+56.85	-91.85'
807	264+11.10	-70.81'
808	265+53.83	-70.94'
809	265+68.13	-88.42'
810	266+24.13	-93.20'
811	266+41.77	-71.01'
812	267+14.35	-71.19'
813	268+64.35	-92.18'
814	271+27.62	-90.87'
815	272+64.20	-90.99'
816	275+25.52	-91.22'
817	275+84.33	-122.32'
818	276+28.79	-122.22'
819	276+28.51	0.00'
820	276+28.09	189.26'
821	276+16.52	189.24'
822	275+19.33	95.11'
823	275+11.27	95.10'
824	275+11.31	81.94'
825	264+06.27	65.33'
826	263+51.47	127.41'
827	263+50.04	177.39'
828	263+28.30	229.05'
829	262+81.75	125.41'
830	262+14.37	69.35'
831	256+44.19	69.84'
832	251+14.33	64.20'
833	249+71.56	68.49'
834	249+70.58	0.00'
835	262+78.82	227.63'

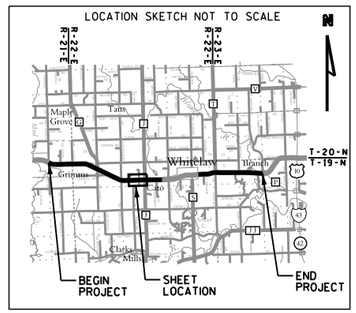
COURSE TABLE		
COURSE	BEARING	DISTANCE
800-801	S 86°36'50" E	265.78'
801-802	N 88°44'45" E	966.53'
802-803	N 67°38'29" E	56.64'
803-804	N 22°28'52" E	67.90'
804-805	N 88°38'41" E	49.52'
805-806	S 22°03'03" E	65.46'
806-807	S 70°08'47" E	58.18'
807-808	N 88°36'42" E	142.73'
808-809	N 37°56'06" E	22.59'
809-810	N 83°47'09" E	56.20'
810-811	S 39°49'49" E	28.35'
811-812	N 88°36'49" E	72.90'
812-813	N 81°22'55" E	152.52'
813-814	S 89°26'48" E	264.77'
814-815	S 89°26'53" E	136.58'
815-816	S 89°26'53" E	261.32'
816-817	N 62°43'55" E	66.53'
817-818	S 89°16'04" E	44.46'
818-819	S 00°43'56" W	122.22'
819-820	S 00°43'56" W	189.26'
820-821	N 89°16'04" W	11.57'
821-822	N 45°18'52" W	135.30'
822-823	N 89°19'22" W	8.06'
823-824	N 00°46'09" E	13.16'
824-825	N 89°19'35" W	1102.61'
825-826	S 40°05'50" W	82.80'
826-827	S 00°18'10" W	50.00'
827-828	S 21°28'56" W	56.05'
828-835	N 89°41'50" W	49.50'
835-829	N 00°18'10" E	102.26'
829-830	N 51°34'55" W	87.65'
830-831	S 88°36'42" W	570.18'
831-832	N 89°35'43" W	532.25'
832-833	S 88°59'12" W	142.84'
833-834	N 00°06'53" W	68.50'
834-800	N 00°06'53" W	78.33'

Refer to the Title Sheet, recorded as Sheet 2 of 2, in Cabinet D of Plats, Jacket 70, as Document No. 1165117 for additional information

SCALE, FEET
0 100 200

GN

LOCATION SKETCH NOT TO SCALE



emcs.inc

I, KEVIN C. BOYER, PROFESSIONAL LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE DEPARTMENT, I HAVE SURVEYED TRANSPORTATION PROJECT PLAT 1500-33-21-4.08 AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

WISCONSIN KEVIN C BOYER S-2675 HEWITT WI LAND SURVEYOR

Kevin C. Boyer DATE: 2/18/2016
KEVIN C. BOYER
PROFESSIONAL LAND SURVEYOR NUMBER 2675
THIS PLAT IS APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION

(SIGNATURE) DATE: 2/19/2016
(PRINTED NAME) CURT

FILE NAME : P:\48xx\4816.DP.13.USH 10.MAN\CADDS\Plan\TPP\040108_rp.dgn
APPRAISAL PLAT DATE :
PLOT DATE : 2/18/2016
PLOT BY : kcb
PLOT NAME :
PLOT SCALE : 1:100

1500-33-21-4.08

DEPARTMENT COMPOSITE, ORIGINAL LOCATED AT THE REGISTER OF DEEDS OFFICE

TRANSPORTATION PROJECT PLAT NO: 1500-33-21 - 4.09

THAT PART OF THE NE1/4 OF THE SW1/4 AND PART OF THE SE1/4 OF THE SW1/4 OF SECTION 3, TOWNSHIP 19 NORTH, RANGE 22 EAST, TOWN OF CATO, MANITOWOC COUNTY, WISCONSIN

RELOCATION ORDER USH 10 MANITOWOC COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3), 84.09 AND 84.30, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:
1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE DEPARTMENT FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE STATE OF WISCONSIN, PURSUANT TO THE PROVISIONS OF SECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

UTILITY INTERESTS REQUIRED

UTILITY NUMBER	OWNER(S)	INTEREST REQUIRED
200	FRONTIER NORTH INC.	RELEASE OF RIGHTS
204	WISCONSIN PUBLIC SERVICE CORPORATION (GAS)	RELEASE OF RIGHTS

(200) FRONTIER NORTH INC.
DOC 549283- PAR 23
DOC 717937 - PAR 23
DOC 549283- PAR 23
DOC 717937 - PAR 23

(204) WISCONSIN PUBLIC SERVICE CORPORATION (GAS)
NO EASEMENT OF RECORD PAR 23

SCHEDULE OF LANDS & INTERESTS REQUIRED

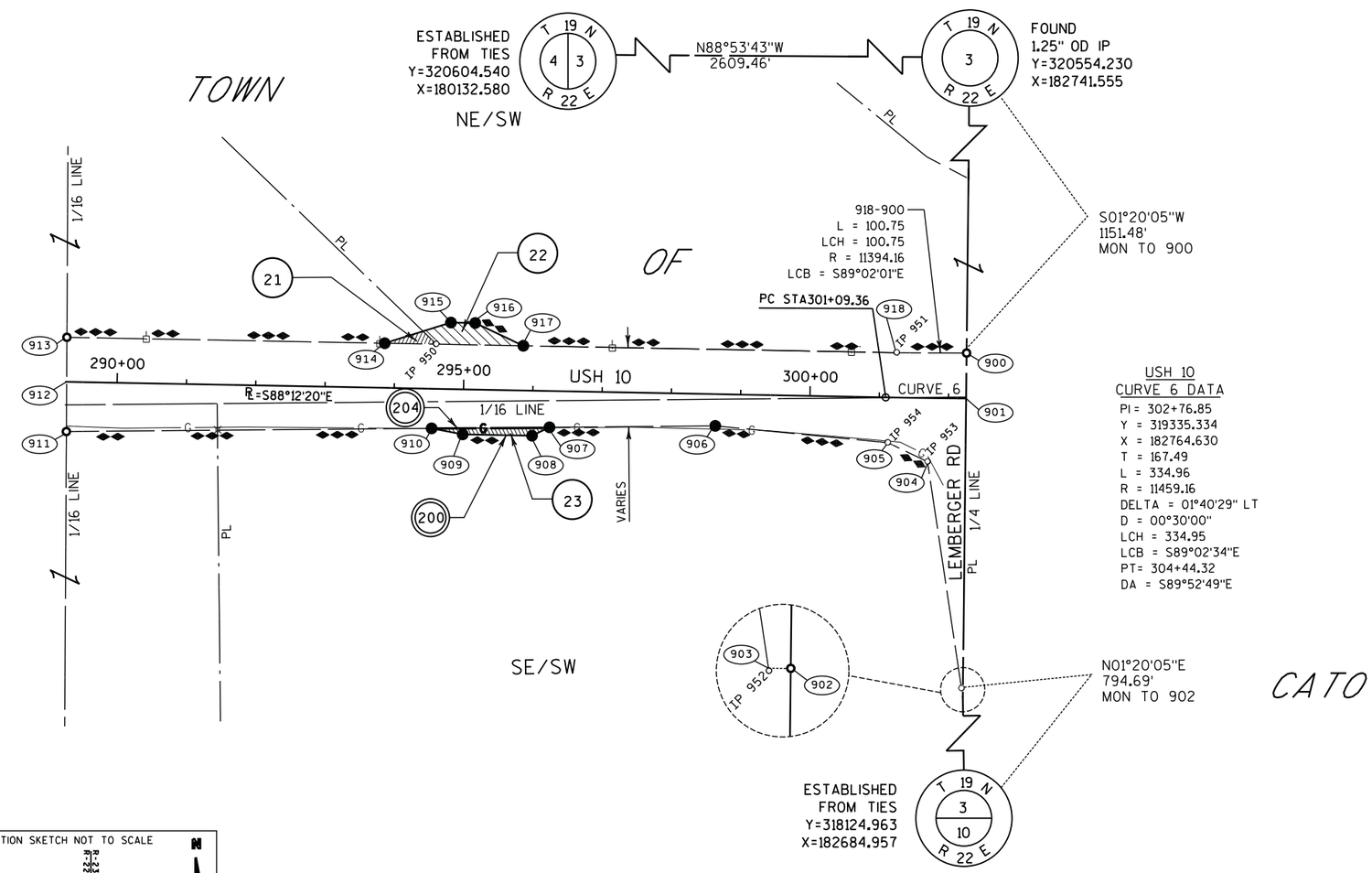
OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERSTS TO THE DEPARTMENT.

PARCEL NUMBER	OWNERS	INTEREST REQUIRED	R/W ACRES REQUIRED NEW	EXISTING	TOTAL
21	GERALD J. ROBERTS	FEE	0.016	---	0.016
22	ROY E. & KAREN F. GRUNWALD	FEE	0.070	---	0.070
23	JAMES J. & BETTY J. PRITZL REVOCABLE TRUST	FEE	0.032	---	0.032

STATE OF WI - MTWC CO
PRESTON (CTHB 1159/DEEDS
RECEIVED ON 02/26/2016
02/29/2016 1:00:00 PM.

DOC # 1165502
VOL. 911 PG. 502

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1500-33-21-4.09
AMENDMENT NO:



USH 10
CURVE 6 DATA
PI = 302+76.85
Y = 319335.334
X = 182764.630
T = 167.49
L = 334.96
R = 11459.16
DELTA = 01°40'29" LT
D = 00°30'00"
LCH = 334.95
LCB = S89°02'34"E
PT= 304+44.32
DA = S89°52'49"E

EXISTING MONUMENTS

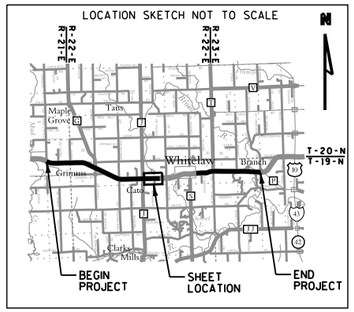
POINT	Y (NORTHING)	X (EASTING)	DESCRIPTION
IP 950	319425.733	181949.547	0.75" IRON ROD
IP 951	319405.400	182613.855	1.25" OD IP
IP 952	318920.041	182701.38	1.25" OD IP
IP 953	319247.529	182656.4	1.25" OD IP
IP 954	319275.713	182599.459	1.25" OD IP

STATION & OFFSET TABLE

POINT NO.	STATION	OFFSET
900	302+25.52	-65.54'
901	302+25.39	0.00'
902	302+24.54	418.21'
903	302+22.51	418.21'
904	301+70.95	91.84'
905	301+13.57	65.33'
906	298+64.21	45.81'
907	296+25.00	52.44'
908	296+00.00	65.00'
909	295+00.00	65.00'
910	294+55.00	57.15'
911	289+28.01	71.74'
912	289+27.05	0.00'
913	289+26.19	-64.15'
914	293+85.00	-64.35'
915	294+80.00	-96.00'
916	295+15.00	-96.00'
917	295+85.00	-64.44'
918	301+24.20	-64.66'

COURSE TABLE

COURSE	BEARING	DISTANCE
900-901	S 01°20'05" W	65.54'
901-902	S 01°20'05" W	418.21'
902-903	N 88°39'55" W	2.10'
903-904	N 07°49'01" W	330.60'
904-905	N 63°43'33" W	63.56'
905-906	N 83°43'47" W	250.15'
906-907	N 89°47'32" W	239.30'
907-908	S 65°06'50" W	27.98'
908-909	N 88°12'20" W	100.00'
909-910	N 78°18'19" W	45.68'
910-911	N 89°47'32" W	527.19'
911-912	N 01°01'42" E	71.75'
912-913	N 01°01'42" E	64.16'
913-914	S 88°13'50" E	458.81'
914-915	N 73°22'10" E	100.13'
915-916	S 88°12'20" E	35.00'
916-917	S 63°56'09" E	76.79'
917-918	S 88°13'50" E	539.12'
918-900	SEE CURVE DATA ON SHEET	



Refer to the Title Sheet, recorded as Sheet 2 of 2, in Cabinet D of Plats, Jacket 70, as Document No. 1165117 for additional information

FOR THE LATEST ACCESS/DRIVEWAY INFORMATION CONTACT THE PLANNING DEPARTMENT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE IN GREEN BAY

GN

SCALE, FEET
0 100 200

emcs LLC

I, KEVIN C. BOYER, PROFESSIONAL LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE DEPARTMENT, I HAVE SURVEYED TRANSPORTATION PROJECT PLAT 1500-33-21-4.09 AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

WISCONSIN KEVIN C BOYER S-2675 HEWITT WI LAND SURVEYOR

Kevin C. Boyer DATE: 2/18/2016
KEVIN C. BOYER
PROFESSIONAL LAND SURVEYOR NUMBER 2675

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION

Curtis Fenn DATE: 2/19/2016
(SIGNATURE)
(PRINTED NAME) CURT

FILE NAME : P:\48xx\4816.DP.13.USH 10.MAN\CADDS\Plan\TPP\040109_rp.dgn
APPRAISAL PLAT DATE :
PLOT DATE : 2/18/2016
PLOT BY : kcb
PLOT NAME :
PLOT SCALE : 1:100

1500-33-21-4.09

DEPARTMENT COMPOSITE, ORIGINAL LOCATED AT THE REGISTER OF DEEDS OFFICE

TRANSPORTATION PROJECT PLAT NO: 1500-33-21 - 4.10

THAT PART OF THE NW1/4 OF THE SE1/4 AND PART OF THE NE1/4 OF THE SE1/4 OF SECTION 1, TOWNSHIP 19 NORTH, RANGE 22 EAST, TOWN OF CATO, MANITOWOC COUNTY, WISCONSIN

RELOCATION ORDER USH 10 MANITOWOC COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3), 84.09 AND 84.30, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:
1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE DEPARTMENT FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE STATE OF WISCONSIN, PURSUANT TO THE PROVISIONS OF SECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

UTILITY INTERESTS REQUIRED

UTILITY NUMBER	OWNER(S)	INTEREST REQUIRED
200	FRONTIER NORTH INC.	RELEASE OF RIGHTS

(200) FRONTIER NORTH INC.
DOC 717939 - PAR 27
DOC 607143 - PAR 27
NO EASEMENT OF RECORD - PAR 24

EXISTING MONUMENTS

POINT	Y (NORTHING)	X (EASTING)	DESCRIPTION
IP 1050	320658.165	195755.642	1.25" OD IP
IP 1051	320646.807	195819.084	1.25" OD IP
IP 1052	320648.512	195901.003	1.25" OD IP
IP 1053	320686.274	195942.346	1.25" OD IP
IP 1054	320510.836	195690.025	0.75" IRON ROD
IP 1055	320462.65	195499.825	0.75" IRON ROD

SCHEDULE OF LANDS & INTERESTS REQUIRED

OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERSTS TO THE DEPARTMENT.

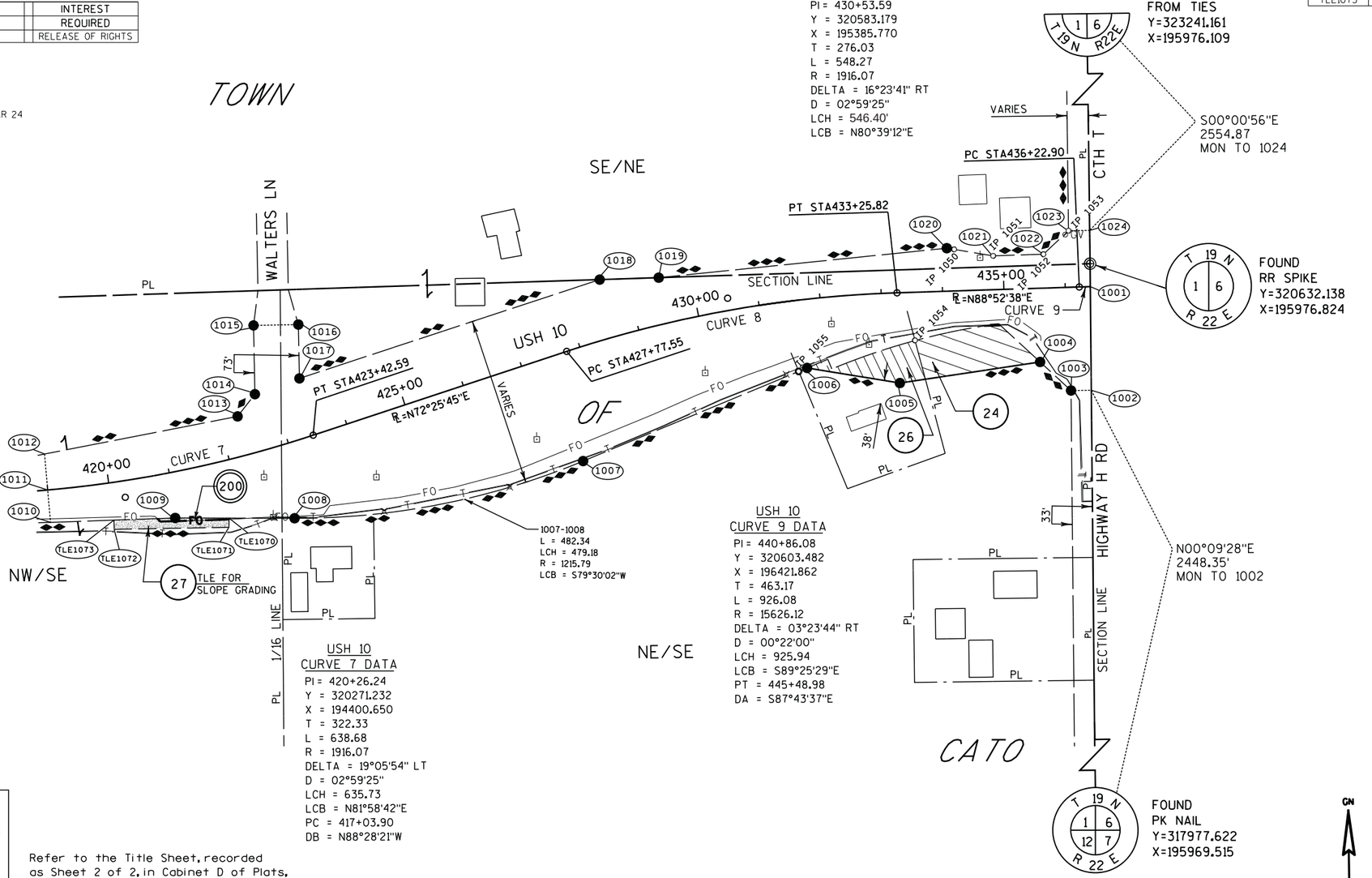
PARCEL NUMBER	OWNERS	INTEREST REQUIRED	R/W ACRES REQUIRED NEW	EXISTING	TOTAL	TLE ACRES
24	HERBERT W. KRUEGER FAMILY, LLC	FEE	0.264	---	0.264	---
26	JOHN M. NEUSER	FEE	0.146	---	0.146	---
27	JEROME & JUDITH ANN VOGEL	TLE	---	---	---	0.068

TLE STATION & OFFSET TABLE

POINT NO.	STATION	OFFSET
TLE1070	421+77.73	92.60'
TLE1071	421+74.41	107.19'
TLE1072	419+98.49	75.95'
TLE1073	420+00.00	61.04'

STATE OF WI | MANITOWOC
REGISTER OF DEEDS
RECEIVED FOR RECORD
02/19/2016 3:02:04 PM
DOC # 1165503
VOL. 2116a5 PG. 503

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1500-33-21-4.10
AMENDMENT NO:

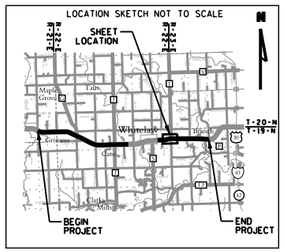


STATION & OFFSET TABLE

POINT NO.	STATION	OFFSET
E 1/4 SEC 1	436+41.64	-37.38'
1001	436+40.85	0.00'
1002	436+37.24	168.75'
1003	436+04.09	168.02'
1004	435+55.18	120.00'
1005	433+25.82	147.00'
1006	431+66.00	111.29'
1007	427+46.88	177.95'
1008	422+75.53	120.21'
1009	420+95.74	73.97'
1010	419+00.00	52.91'
1011	419+00.00	0.00'
1012	419+00.00	-58.80'
1013	422+31.47	-64.51'
1014	422+69.89	-91.80'
1015	423+02.18	-199.75'
1016	423+76.15	-178.62'
1017	423+50.31	-94.82'
1018	428+61.01	-96.05'
1019	429+50.92	-75.11'
1020	434+09.19	-70.04'
1021	434+84.21	-55.13'
1022	435+66.20	-55.23'
1023	436+08.28	-92.18'
1024	436+42.61	-91.52'

COURSE TABLE

COURSE	BEARING	DISTANCE
E 1/4 SEC 1-1001	S 00°09'28" W	37.39'
1001-1002	S 00°09'28" W	168.79'
1002-1003	N 89°50'32" W	33.00'
1003-1004	N 46°38'59" W	68.54'
1004-1005	S 82°09'48" W	230.94'
1005-1006	N 80°03'10" W	153.18'
1006-1007	S 68°08'06" W	395.08'
1007-1008	SEE CURVE DATA ON SHEET	
1008-1009	N 89°08'03" W	194.40'
1009-1010	S 88°40'38" W	203.22'
1010-1011	N 04°20'11" W	52.91'
1011-1012	N 04°20'11" W	58.80'
1012-1013	N 79°41'31" E	320.45'
1013-1014	N 38°39'20" E	45.85'
1014-1015	N 00°25'44" W	112.00'
1015-1016	N 89°34'16" E	73.00'
1016-1017	S 00°25'44" E	87.69'
1017-1018	N 72°30'18" E	514.87'
1018-1019	N 88°50'46" E	96.23'
1019-1020	N 84°51'37" E	471.68'
1020-1021	S 79°52'56" E	76.49'
1021-1022	N 88°48'28" E	81.99'
1022-1023	N 47°35'24" E	56.00'
1023-1024	N 89°59'04" E	34.46'
1024-E1/4 SEC 1	S 00°00'56" E	54.15'



Refer to the Title Sheet, recorded as Sheet 2 of 2, in Cabinet D of Plats, Jacket 70, as Document No. 1165117 for additional information

ALL TLES SHOWN ON THIS SHEET ARE FOR SLOPE GRADING

FOR THE LATEST ACCESS/DRIVEWAY INFORMATION CONTACT THE PLANNING DEPARTMENT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE IN GREEN BAY

emcs, LLC

I, KEVIN C. BOYER, PROFESSIONAL LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE DEPARTMENT, I HAVE SURVEYED TRANSPORTATION PROJECT PLAT 1500-33-21-4.10 AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

Kevin C. Boyer DATE: 2/18/2016
KEVIN C. BOYER
PROFESSIONAL LAND SURVEYOR NUMBER 2675 THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION

(SIGNATURE) DATE: 2/19/2016
(PRINTED NAME) CURT

FILE NAME : P:\48xx\4816.DP.13.USH 10.MAN\CADDS\Plan\TPP\040110_rp.dgn
APPRAISAL PLAT DATE :
PLOT DATE : 2/18/2016
PLOT BY : kcb
PLOT NAME :
PLOT SCALE : 1:100

1500-33-21-4.10

PROPOSED WORK
STA 53+45.50 - STA 60+00
MILL AND OVERLAY
STA 53+45.50 - STA 60+00
CONSTRUCT RT PAVED SHOULDER
REMOVE & REPLACE GUARDRAIL
STA 54+16 - 57+77

STA 54+58 - STA 57+76 LT
STA 54+52 - STA 57+77 RT
REMOVING GUARDRAIL

STA 54+34 - STA 57+43 LT
STA 54+16 - STA 57+32 RT
MGS GUARDRAIL 3 K

(SEE STANDARD DETAIL DRAWING AND CONSTRUCTION DETAILS)

LEGEND
- DELINEATED WETLAND BOUNDARY
- PERMITTED WETLAND IMPACTS

RONALD C. & NORETTA J. BASTIAN

PLEASANT VIEW RD

UNNAMED CREEK

TIME WARNER CABLE (COMMUNICATIONS)

WPS (ELECTRIC)

FRONTIER COMMUNICATIONS (COMMUNICATIONS)

SLOPE INTERCEPT

50+00 USH 10 52+00 54+00 56+00 58+00 60+00

BM 601

BM 600

BEGIN PROJECT
STA 53+45.50
Y=158815.52
X=323801.74

MANITOWOC ST

STRUCTURE B-36-144 TO REMAIN

THE JOHN E. & THERESA A. WORACHECK REVOCABLE TRUST

BASE AGG FE

WPS (GAS)

NORMAN J. & MARLENE R. GILL

BENCH MARKS

NO.	STATION	DESCRIPTION	ELEV.
600	55+78, 33' RT	DISC ON SW WING	821.25'
601	55+88, 26' LT	CHISLED SQUARE ON NE CORNER OF HEADWALL	821.79'

STA 65+25 & STA 65+31
REMOVE 2-30" CPCS
2-42"X104' CPRC REQ'D
CONCRETE MASONRY ENDWALLS REQ'D
SKEW 0° RHF
2-MARKERS FOR CULVERT END REQ'D

STA 66+50
REMOVING SMALL PIPE CULVERTS
1-42"X36' CPCS REQ'D
2-AEW REQ'D

PROPOSED WORK
STA 60+00 - STA 75+00
MILL AND OVERLAY
STA 60+00 - STA 67+00
CONSTRUCT RT PAVED SHOULDER
STA 65+25 & STA 65+31
REMOVE AND REPLACE CULVERT

60+00 62+00 64+00 66+00 68+00 70+00 USH 10 72+00 74+00

CAUTION

PROP RW

BASE AGG CE

PROJECT NO: 1500-66-71	HWY: USH 10	COUNTY: MANITOWOC	PLAN	SHEET 68	E

FILE NAME : P:\48xx\4816.DP.13.USH 10.MAN\CADDS\Plan\66 resurfacing\050201_pn.dgn PLOT DATE : 6/20/2017 PLOT BY : sgc PLOT NAME : PLOT SCALE : 1:100

PROPOSED WORK
STA 75+00 - STA 90+00
MILL AND OVERLAY
STA 88+25
REMOVE AND REPLACE CULVERT

RONALD C. & NORETTA J. BASTIAN

LANDMARK REFERENCE MONUMENTS (BY OTHERS)

T 20 N R 21 E 36

GROVE RD

CONTROL POINT 200
Y=323751.18
X=161303.81
1" IRON PIPE WITH
RED D.O.T. CAP

END CONSTRUCTION 80'LT
BUTT JOINT REQ'D
(SEE CONSTRUCTION DETAILS)

FRONTIER COMMUNICATIONS (COMMUNICATIONS)

WPS (ELECTRIC)

JUDY K. BOETTCHER

TIME WARNER CABLE (COMMUNICATIONS)

FRONTIER COMMUNICATIONS (COMMUNICATIONS)

STA 88+25
REMOVE 1-24" CPCS
1-36"X104' CPRC REQ'D
2-AEW REQ'D
SKEW 0° RHF
2-MARKERS FOR CULVERT END REQ'D

SLOPE INTERCEPT

PROP RW

76+00 78+00 80+00 82+00 USH 10 84+00 86+00 88+00 90+00

RW

PROP RW

T 19 N R 21 E 1

LANDMARK REFERENCE MONUMENTS (BY OTHERS)

RONALD C. & NORETTA J. BASTIAN

WALLACE A. & FAYE A. RUSCH

5

5

PROPOSED WORK
STA 90+00 - STA 105+00
MILL AND OVERLAY

LARRY & JUDY K. BOETTCHER

BASE AGG PE

JUDY K. BOETTCHER

TIME WARNER CABLE (COMMUNICATIONS)

FRONTIER COMMUNICATIONS (COMMUNICATIONS)

WPS (ELECTRIC)

END CONSTRUCTION 80'LT
BUTT JOINT REQ'D
(SEE CONSTRUCTION DETAILS)

MAERTZ RD

90+00 92+00 94+00 96+00 USH 10 98+00 100+00 102+00 104+00

RW

PROP RW

BASE AGG PE

T 20 N R 21 E | T 20 N R 22 E
36 31
1 6
T 19 N R 21 E | T 19 N R 22 E

LANDMARK REFERENCE MONUMENTS (BY OTHERS)

WALLACE A. & FAYE A. RUSCH

PROJECT NO: 1500-66-71	HWY: USH 10	COUNTY: MANITOWOC	PLAN	SHEET 69	E

FILE NAME : P:\48xx\4816.DP.13.USH 10.MAN\CADDS\Plan\66 resurfacing\050203_pn.dgn PLOT DATE : 6/20/2017 PLOT BY : sgc PLOT NAME : PLOT SCALE : 1:100

PROPOSED WORK
STA 105+00 - STA 120+00
MILL AND OVERLAY
STA 107+50
REMOVE AND REPLACE CULVERT

MAERTZ RD

END CONSTRUCTION 80' LT
BUTT JOINT REQ'D
(SEE CONSTRUCTION DETAILS)

STA 107+50
REMOVE 1-30" CPCS
1-34"X53"X96' CPRCHE REQ'D
2-AEW REQ'D
SKEW 0° RHF
2-MARKERS FOR CULVERT END REQ'D

SLOPE INTERCEPT

LEE A. MAERTZ

JAMES A. & JUDITH M. LOEFER REVOCABLE TRUST

TIME WARNER CABLE
(COMMUNICATIONS)

FRONTIER COMMUNICATIONS
(COMMUNICATIONS)

WPS
(ELECTRIC)

GAIL A. HAAS

THOMAS L.
DVORACHEK

106+00 108+00 110+00 112+00 USH 10 114+00 116+00 118+00 120+00

DANIEL H. & MARGARET N. BERKHOLTZ

DANIEL H. BERKHOLTZ, CHERYL
FRIDAY & KAREN GRAIL

DANIEL H. & MARGARET N. BERKHOLTZ

FRONTIER COMMUNICATIONS
(COMMUNICATIONS)

END CONSTRUCTION 81' RT
BUTT JOINT REQ'D
(SEE CONSTRUCTION DETAILS)

ROCKY LEDGE LN

DANIEL J. &
ANGELA M.
SCHAMBURECK

LANDMARK
REFERENCE
MONUMENTS
(BY OTHERS)

PROPOSED WORK
STA 120+00 - STA 135+00
MILL AND OVERLAY

GAIL A. HAAS

THE DONALD T. & JOYCE R. SHEAHAN REVOCABLE TRUST

TIME WARNER CABLE
(COMMUNICATIONS)

FRONTIER COMMUNICATIONS
(COMMUNICATIONS)

WPS
(ELECTRIC)

DO NOT
DISTURB

120+00 122+00 124+00 USH 10 126+00 128+00 130+00 132+00 134+00

FRONTIER COMMUNICATIONS
(COMMUNICATIONS)

L&S FARMS LTD.

WE ENERGIES
(FORMERLY WISCONSIN ELECTRIC POWER COMPANY)

L&S FARMS LTD.

DO NOT
DISTURB

PROJECT NO: 1500-66-71	HWY: USH 10	COUNTY: MANITOWOC	PLAN	SHEET 70	E

FILE NAME : P:\48xx\4816.DP.13.USH 10.MAN\CADDS\Plan\66 resurfacing\050205_pn.dgn PLOT DATE : 6/20/2017 PLOT BY : sgc PLOT NAME : PLOT SCALE : 1:100

LYLE HOLSCHBACH & SANDRA SICKINGER

CONTROL POINT 201
Y=323182.61
X=167726.22
1" IRON PIPE WITH
RED D.O.T. CAP

STEINBERG LN

WPS
(ELECTRIC)

TIME WARNER CABLE
(COMMUNICATIONS)

END CONSTRUCTION 83'LT
BUTT JOINT REQ'D
(SEE CONSTRUCTION DETAILS)

WENDY B. & PETER J. STEINBERG III

SLOPE INTERCEPT

USH 10

136+00 138+00 140+00 142+00 144+00 146+00 148+00 150+00

RW PROP RW

SLOPE INTERCEPT

STA 146+00
REMOVE 1-18" CPRC
1-24"X136' CPRC REQ'D
2-AEW REQ'D
SKEW 0° RHF
2-MARKERS FOR CULVERT END REQ'D

L&S FARMS LTD.

PROPOSED WORK

STA 135+00 - STA 150+00
MILL AND OVERLAY
STA 146+00
REMOVE AND REPLACE CULVERT

5

5

PROPOSED WORK

STA 150+00 - STA 165+00
MILL AND OVERLAY

BENCH MARK

NO.	STATION	DESCRIPTION	ELEV.
607	164+70.264' RT	CHISLED SQUARE IN SW CORNER OF HEADWALL 200' SOUTH OF USH 10, 18' WEST OF CTH G	840.02'

LEGEND

DELINEATED WETLAND BOUNDARY

L&S FARMS LTD.

WPS
(ELECTRIC)

TIME WARNER CABLE
(COMMUNICATIONS)

END CONSTRUCTION 74'LT
BUTT JOINT REQ'D
(SEE CONSTRUCTION DETAILS)

CTH G

FRONTIER COMMUNICATIONS
(COMMUNICATIONS)

WPS
(ELECTRIC)

150+00 152+00 154+00 156+00 USH 10 158+00 160+00 162+00 164+00

END CONSTRUCTION 66'RT
BUTT JOINT REQ'D
(SEE CONSTRUCTION DETAILS)

GRIMMS RD

VERNON RD

BM 607

RW PROP RW

L&S FARMS LTD.

RICHARD C. & KAREN A. GENGLER

PROJECT NO: 1500-66-71	HWY: USH 10	COUNTY: MANITOWOC	PLAN	SHEET 71	E

FILE NAME : P:\48xx\4816.DP.13.USH 10.MAN\CADDS\Plan\66 resurfacing\050207_pn.dgn | PLOT DATE : 6/20/2017 | PLOT BY : sgc | PLOT NAME : | PLOT SCALE : 1:100

THOMAS L. BRAUN, JEANNE & STEVEN J. O'LEARY

JOSEPH E. WELCH

TIME WARNER CABLE
(COMMUNICATIONS)

RW

PROP RW

FO

EXISTING STRUCTURE C-36-37
6'X10' BOX CULVERT TO REMAIN

BPOST

166+00 168+00 170+00 172+00 USH 10 174+00 176+00 178+00 180+00

BM 606

JOSEPH E. WELCH

SLOPE INTERCEPT

STA 178+67, RT
REMOVING SMALL PIPE CULVERTS

BASE
AGG
FE

STA 179+76, RT
REMOVING SMALL PIPE CULVERTS

BM 607

BENCH MARKS

NO.	STATION	DESCRIPTION	ELEV.
606	165+94.68' RT	DISC ON SW WING	839.56'
607	164+70.264' RT	CHISLED SQUARE IN SW CORNER OF HEADWALL 200' SOUTH OF USH 10, 18' WEST OF CTH G	840.02'

PROPOSED WORK
STA 165+00 - STA 180+00
MILL AND OVERLAY
STA 176+50 - STA 180+00, RT
REMOVE DRIVEWAYS AND RESTORE DITCH

LEGEND
DELINEATED WETLAND BOUNDARY
REMOVE DRIVEWAYS AND RESTORE DITCH FLOW LINE

PROPOSED WORK
STA 180+00 - STA 195+00
MILL AND OVERLAY
STA 180+00 - STA 180+50, LT & RT
REMOVE DRIVEWAYS AND RESTORE DITCHES

LEGEND
REMOVE DRIVEWAYS AND
RESTORE DITCH FLOW LINE

THE DONALD T. SHEAHAN & JOYCE R. SHEAHAN REVOCABLE TRUST

MARJORIE BODWIN

TIME WARNER CABLE
(COMMUNICATIONS)

PROP RW

RW

FO

SLOPE INTERCEPT

180+00 182+00 184+00 186+00 USH 10 188+00 190+00 192+00 194+00

SLOPE INTERCEPT

BASE
AGG
FE

THE DONALD T. SHEAHAN & JOYCE R. SHEAHAN REVOCABLE TRUST

FRONTIER COMMUNICATIONS
(COMMUNICATIONS)

WPS
(ELECTRIC)

T

OH

GUY

LIME KILN RD

RANDY L. MEYER

PROJECT NO: 1500-66-71	HWY: USH 10	COUNTY: MANITOWOC	PLAN	SHEET 72	E

FILE NAME : P:\48xx\4816.DP.13.USH 10.MAN\CADDS\Plan\66 resurfacing\050209_pn.dgn PLOT DATE : 6/20/2017 PLOT BY : sgc PLOT NAME : PLOT SCALE : 1:100

PROPOSED WORK
STA 195+00 - STA 210+00
MILL AND OVERLAY
STA 207+34 & STA 207+41
REMOVE AND REPLACE CULVERT

LEGEND
- DELINEATED WETLAND BOUNDARY
- PERMITTED WETLAND IMPACTS

MARJORIE BODWIN

MARJORIE BODWIN

TIME WARNER CABLE (COMMUNICATIONS)

BASE AGG FE

RANDALL J. & LINDA E. MEYER

STA 207+34
REMOVE 1-42" CPRC
STA 207+34 & STA 207+41
2-48"X120' CPRC REQ'D
CONCRETE MASONRY ENDWALLS REQ'D
SKEW 4.2° LHF
2-MARKERS FOR CULVERT END REQ'D

N

PROP RW
RW
FO
196+00
198+00
200+00
202+00
USH 10
204+00
206+00
208+00
210+00

ASP PE
POST
GUY
OH
T
RW

FRONTIER COMMUNICATIONS (COMMUNICATIONS)

WPS (ELECTRIC)

FRONTIER COMMUNICATIONS (COMMUNICATIONS)

MARJORIE BODWIN

PATRICK L. BODWIN

MARJORIE BODWIN

5

5

PROPOSED WORK
STA 210+00 - STA 225+00
MILL AND OVERLAY

N

RANDALL J. & LINDA E. MEYER

WILLIAM J. & ELIZABETH FRITSCH

MENCHALVILLE RD

PROP RW
RW
FO
210+00
212+00
214+00
USH 10
216+00
218+00
220+00
222+00
224+00

TIME WARNER CABLE (COMMUNICATIONS)

END CONSTRUCTION 73' LT
BUTT JOINT REQ'D
(SEE CONSTRUCTION DETAILS)

WPS (ELECTRIC)

BASE AGG FE

END CONSTRUCTION 73' RT
BUTT JOINT REQ'D
(SEE CONSTRUCTION DETAILS)

MENCHALVILLE

PROJECT NO: 1500-66-71	HWY: USH 10	COUNTY: MANITOWOC	PLAN	SHEET 73	E

FILE NAME : P:\48xx\4816.DP.13.USH 10.MAN\CADDS\Plan\66 resurfacing\050211_pn.dgn | PLOT DATE : 6/20/2017 | PLOT BY : sgc | PLOT NAME : | PLOT SCALE : 1:100

WISDOT/CADDS SHEET 44

PROPOSED WORK
STA 225+00 - STA 240+00
MILL AND OVERLAY

WILLIAM J. & ELIZABETH FRITSCH

TIME WARNER CABLE
(COMMUNICATIONS)

FRONTIER COMMUNICATIONS
(COMMUNICATIONS)

ATC
(ELECTRIC)

WILLIAM J. IV & CHERYL FRITSCH

N

PROP RW
RW
FO
OH
226+00
228+00
230+00
232+00
USH 10
234+00
236+00
238+00
240+00
8 POST

MELVIN MANGIN

GARY L. WAACK REVOCABLE LIVING TRUST

5

PROPOSED WORK
STA 240+00 - STA 255+00
MILL AND OVERLAY

WILLIAM J. IV & CHERYL FRITSCH

FRITSCH LN

END CONSTRUCTION 79'LT
BUTT JOINT REQ'D
(SEE CONSTRUCTION DETAILS)

CONTROL POINT 202
Y=319458.12
X=176841.01
1" IRON PIPE WITH
RED D.O.T. CAP

WILLIAM J. IV & CHERYL FRITSCH

LITTLE BROOK FARMS, LLC

N

FRONTIER COMMUNICATIONS
(COMMUNICATIONS)

TIME WARNER CABLE
(COMMUNICATIONS)

SIGN

PROP RW
RW
FO
240+00
242+00
244+00
246+00
248+00
USH 10
250+00
252+00
254+00
8 POST

GARY L. WAACK REVOCABLE LIVING TRUST

GARY L. WAACK REVOCABLE LIVING TRUST

PROJECT NO: 1500-66-71	HWY: USH 10	COUNTY: MANITOWOC	PLAN	SHEET 74	E

FILE NAME : P:\48xx\4816.DP.13.USH 10.MAN\CADDS\Plan\66 resurfacing\050213_pn.dgn PLOT DATE : 6/20/2017 PLOT BY : sgc PLOT NAME : PLOT SCALE : 1:100

PROPOSED WORK
STA 255+00 - STA 270+00
MILL AND OVERLAY

LEGEND

DELINEATED WETLAND BOUNDARY

LITTLE BROOK FARMS, LLC

RICHARD URBAN

NATALIE A. MANCI

JUDITH M. MANCI

JAMES M. BRANDES

BRODTKE RD

PAINTER LN

FRONTIER COMMUNICATIONS (COMMUNICATIONS)

TIME WARNER CABLE (COMMUNICATIONS)

END CONSTRUCTION 82'LT BUTT JOINT REQ'D (SEE CONSTRUCTION DETAILS)

TDS TELECOM (COMMUNICATIONS)

END CONSTRUCTION 83'LT BUTT JOINT REQ'D (SEE CONSTRUCTION DETAILS)

TIME WARNER CABLE (COMMUNICATIONS)

STA 263+09.50 MODIFY BRODTKE RD INTERSECTION (SEE INTERSECTION DETAIL)

256+00 258+00 260+00 USH 10 262+00 264+00 266+00 268+00 270+00

BM 610

BM 611

WPS (GAS)

KEVIN D. & KAY L. SCHMIDT

GARY L. WAACK REVOCABLE LIVING TRUST

END CONSTRUCTION 92'RT BUTT JOINT REQ'D (SEE CONSTRUCTION DETAILS)

REMOVE & REPLACE CURB & GUTTER AT INTERSECTION (SEE INTERSECTION DETAILS FOR ADDITIONAL INFORMATION)

BASE AGG PE

FRONTIER COMMUNICATIONS (COMMUNICATIONS)

TDS TELECOM (COMMUNICATIONS)

EXISTING TWIN 42" CPRC TO REMAIN 2-MARKERS FOR CULVERT END REQ'D

GREG K. & SARAH J. RIEDERER

WPS (GAS)

BENCH MARKS

NO.	STATION	DESCRIPTION	ELEV.
610	262+66.46'RT	CHISLED SQUARE ON NW CORNER OF HEADWALL	852.83'
611	263+45.51'RT	CHISLED SQUARE ON NE CORNER OF HEADWALL	852.02'

N

5

5

PROPOSED WORK
STA 270+00 - STA 285+00
MILL AND OVERLAY
STA 272+00 - STA 275+61
CONSTRUCT RIGHT TURN LANE

LEGEND

DELINEATED WETLAND BOUNDARY

ELEVATOR RD

CTH J

TIME WARNER CABLE (COMMUNICATIONS)

MODIFY CTH J INTERSECTION (SEE INTERSECTION DETAIL)

STA 276+41.55

WPS (GAS)

DELVIN W. & LINDA L. BENTER

ROY E. & KAREN F. GRUNWALD

END CONSTRUCTION 83'LT BUTT JOINT REQ'D (SEE CONSTRUCTION DETAILS)

WPS (ELECTRIC)

FRONTIER COMMUNICATIONS (COMMUNICATIONS)

270+00 272+00 274+00 276+00 USH 10 278+00 280+00 282+00 284+00

SLOPE INTERCEPT

ASP PE

WPS (GAS)

BASE AGG PE

BASE AGG FE

WPS (GAS)

FRONTIER COMMUNICATIONS (COMMUNICATIONS)

TDS TELECOM (COMMUNICATIONS)

DAVID D. & KATRINA M. MRAZ

END CONSTRUCTION 104'RT BUTT JOINT REQ'D (SEE CONSTRUCTION DETAILS)

REMOVE & REPLACE CURB & GUTTER AT INTERSECTION (SEE INTERSECTION DETAILS FOR ADDITIONAL INFORMATION)

MANITOWOC COUNTY

WILLIAM J. & MICHELLE L. PROPSON

FRONTIER COMMUNICATIONS (COMMUNICATIONS)

N

PROJECT NO: 1500-66-71	HWY: USH 10	COUNTY: MANITOWOC	PLAN	SHEET 75	E

PROPOSED WORK
STA 285+00 - STA 300+00
MILL AND OVERLAY
STA 295+15
REMOVE AND REPLACE CULVERT

LEGEND
DELINEATED WETLAND BOUNDARY
PERMITTED WETLAND IMPACTS

GERALD J. ROBERTS

STA 295+09 & STA 295+20
REMOVE 2-54" CPRC
2-72"X96'CPRC REQ'D
CONCRETE MASONRY ENDWALLS REQ'D
SKEW 14.6° RHF
2-MARKERS FOR CULVERT END REQ'D

ROY E. & KAREN F. GRUNWALD

N

PC STA284+79.29

WPS (ELECTRIC)

EXISTING 2-42" CPRC TO REMAIN
2-MARKERS FOR CULVERT END REQ'D

SLOPE INTERCEPT

PROP RW

BASE AGG PE

BASE AGG FE

286+00 288+00 290+00 292+00 USH 10 294+00 296+00 298+00 300+00

WPS (GAS)

FRONTIER COMMUNICATIONS (COMMUNICATIONS)

GREGORY I. & SUZANNE M. RIEDERER

JAMES J. & BETTY J. PRITZL

5

5

PROPOSED WORK
STA 300+00 - STA 315+00
MILL AND OVERLAY

LEGEND
DELINEATED WETLAND BOUNDARY

MICHAEL E. & MARY A. LAMBERT

N

WPS (ELECTRIC)

300+00 302+00 304+00 306+00 308+00 USH 10 310+00 312+00 314+00

WPS (GAS)

FRONTIER COMMUNICATIONS (COMMUNICATIONS)

EXISTING 30" CPRC TO REMAIN
2-MARKERS FOR CULVERT END REQ'D

END CONSTRUCTION 81' RT
BUTT JOINT REQ'D
(SEE CONSTRUCTION DETAILS)

LEMBERGER LN

JOSEPH T. HOLSCHBACH

WOLFGANG DAIRY LLC.

PROJECT NO: 1500-66-71	HWY: USH 10	COUNTY: MANITOWOC	PLAN	SHEET 76	E

FILE NAME : P:\48xx\4816.DP.13.USH 10.MAN\CADDS\Plan\66 resurfacing\050216_pn.dgn | PLOT DATE : 6/20/2017 | PLOT BY : sgc | PLOT NAME : | PLOT SCALE : 1:100

PROPOSED WORK
STA 315+00 - STA 323+50
MILL AND OVERLAY

LEGEND
DELINEATED WETLAND BOUNDARY

N

HEMPTON LAKE RD

RONALD P. & SUSAN M. KOMOROSKY

END CONSTRUCTION
STA 323+50.00
BUTT JOINT REQ'D

BASE AGG FE

BASE AGG PE

WPS (GAS)

POST

RW

316+00 318+00 320+00 322+00 USH 10 324+00 326+00 328+00 330+00

5

VENT

FO

G

GV

FRONTIER COMMUNICATIONS (COMMUNICATIONS)

LEON BRAUN

HEMPTON LAKE RD

PROJECT NO: 1500-66-71	HWY: USH 10	COUNTY: MANITOWOC	PLAN	SHEET 77	E

FILE NAME : P:\48xx\4816.DP.13.USH 10.MAN\CADDS\Plan\66 resurfacing\050217_pn.dgn PLOT DATE : 6/20/2017 PLOT BY : sgc PLOT NAME : PLOT SCALE : 1:100

WISDOT/CADDS SHEET 44

PROPOSED WORK
STA 395+61.49 - STA 402+00
MILL AND OVERLAY
STA 395+73 - STA 400+23, LT
REMOVE & REPLACE GUARDRAIL
STA 394+73 - STA 395+61
REMOVE AND REPLACE
CONCRETE CURB & GUTTER

N

MINDY A. & TRAVIS W. CHRISTENSEN

STA 394+73-STA 395+61
REMOVE AND REPLACE CONCRETE
CURB & GUTTER, 30-INCH TYPE A
W/ NO CURB HEAD (SEE CONSTRUCTION DETAIL)

+61
BEGIN
GUADRAIL
GRADING

STA 395+70 - STA 400+10.50 LT
REMOVING GUARDRAIL

STA 395+73 - STA 400+23 LT
MGS GUARDRAIL 3 K

DIANE A. GRALL

FRONTIER COMMUNICATIONS
(COMMUNICATIONS)

+89
END
GUARDRAIL
GRADING

SLOPE INTERCEPT

WPS
(GAS)

ASP
PE

BASE
AGG
FE

388+00 390+00 392+00 USH 10 394+00 396+00 398+00 400+00 402+00

WPS
(ELECTRIC)

BEGIN CONSTRUCTION
STA 395+61.49
BUTT JOINT REQ'D

CHESTNUT LN

KERSCHER FAMILY
REVOCABLE TRUST

EXISTING 36" CPRC TO REMAIN
2-MARKERS FOR CULVERT END REQ'D

WPS
(GAS)

FRONTIER COMMUNICATIONS
(COMMUNICATIONS)

KENNETH TUSCHL

5

5

BENCH MARK

NO.	STATION	DESCRIPTION	ELEV.
23445	406+76.48'LT	RR SPK IN POWER POLE 1922 1L4	859.45'

N

DONNA J.
SKATRUD

KENNETH TUSCHL

TUSCHL RESIDUARY TRUST

GERALD J. BELLIN

TUSCHL RESIDUARY TRUST

END CONSTRUCTION 39'LT
BUTT JOINT REQ'D
(SEE CONSTRUCTION DETAILS)

TUSCHL LN

TUSCHL RESIDUARY TRUST

FRONTIER COMMUNICATIONS
(COMMUNICATIONS)

JEROME VOGEL

WPS
(ELECTRIC)

BASE
AGG
FE

ASP
PE

BM 23445

402+00 404+00 406+00 408+00 410+00 412+00 USH 10 414+00 416+00

CONTROL POINT 23446
Y=320234.30
X=193279.74
0.75"x24" IRON REBAR WITH
BLUE EMCS CONTROL CAP

END CONSTRUCTION 40'RT
BUTT JOINT REQ'D
(SEE CONSTRUCTION DETAILS)

BASE
AGG
PE

WPS
(GAS)

BASE
AGG
PE

FRONTIER COMMUNICATIONS
(COMMUNICATIONS)

WPS
(ELECTRIC)

JEROME VOGEL

KENNETH TUSCHL

JASON R. GRALL

BOOMER LN

PROPOSED WORK
STA 402+00 - STA 417+00
MILL AND OVERLAY

PROJECT NO: 1500-66-71	HWY: USH 10	COUNTY: MANITOWOC	PLAN	SHEET 78	E

FILE NAME : P:\48xx\4816.DP.13.USH 10.MAN\CADDS\Plan\66 resurfacing\050218_pn.dgn PLOT DATE : 8/29/2017 PLOT BY : sgc PLOT NAME : PLOT SCALE : 1:100

PROPOSED WORK
STA 417+00 - STA 432+00
MILL AND OVERLAY
STA 421+09
REMOVE AND REPLACE CULVERT
STA 428+00 - STA 432+00
HWY H (VISION CORNER GRADING)

LEGEND
DELINEATED WETLAND BOUNDARY

JEROME VOGEL
HENRY & JUDITH BAJDAN
HENRY BAJDAN
JEFFREY G. VOGEL
WALTERS LN
USH 10
PC STA417+03.90
418+00
420+00
422+00
424+00
426+00
428+00
430+00
432+00
STA 421+09
REMOVE 1-24" CPCS
1-36"X104' CPRC REQ'D
2-AEW REQ'D
SKEW 0° RHF
2-MARKERS FOR CULVERT END REQ'D
WPS (ELECTRIC)
SLOPE INTERCEPT
END CONSTRUCTION 24' LT
(SEE CONSTRUCTION DETAILS)
BASE AGG FE
ASP PE
WPS (ELECTRIC)
WPS (GAS)
SLOPE INTERCEPT
EXISTING DRAIN TILE
PRESENT APPROXIMATELY 2'
EAST OF CULVERT
DRAIN TILE
EXPLORATION REQ'D
JEROME VOGEL
TUSCHL RESIDUARY TRUST
FRONTIER COMMUNICATIONS
(COMMUNICATIONS)
HERBERT W. KRUEGER FAMILY LLC.
STA 431+72, RT
REMOVING SMALL PIPE CULVERTS
1-24"X46' CPCS REQ'D
2-AEW REQ'D
N

5

PROPOSED WORK
STA 432+00 - STA 447+00
MILL AND OVERLAY
STA 439+44
EXTEND CULVERT & LINE
STA 432+00 - STA 435+85
HWY H (VISION CORNER GRADING)
STA 437+07 - STA 446+00, LT
REMOVING GUARDRAIL & GRADING

STEVEN W. BAXTER
LANDMARK REFERENCE MONUMENTS (BY OTHERS)
BM 4328
HARLAN J. SAUER
CTH T
HIGHWAY H RD
STA 437+39 - STA 442+55, LT
REMOVING GUARDRAIL
STA 439+44, LT
REMOVE 1-24" AEW
CULVERT EXTENSION
1-CULVERT PIPE LINERS, 24-INCH
1-24"X6' CPCS REQ'D
1-AEW REQ'D
SKEW 0° RHF
1-MARKER FOR CULVERT END REQ'D
JEFFREY G. VOGEL
WPS (ELECTRIC)
END CONSTRUCTION 72' LT
BUTT JOINT REQ'D
(SEE CONSTRUCTION DETAILS)
SLOPE INTERCEPT
BASE AGG FE
ASP PE
USH 10
432+00
434+00
436+00
438+00
440+00
442+00
444+00
446+00
+07
+00
BENCH MARK

NO.	STATION	DESCRIPTION	ELEV.
4328	436+06, 137' LT	SE CORNER OF CAP ON THE SE PILLER IN DRIVEWAY	808.72

GORDON J. KOHLBECK
WPS (GAS)
FRONTIER COMMUNICATIONS
(COMMUNICATIONS)
EXISTING 24" CPCS TO REMAIN
1-MARKER FOR CULVERT END REQ'D
KENNETH N. ZIPPERER
SLOPE INTERCEPT
PROP RW
END CONSTRUCTION 72' RT
BUTT JOINT REQ'D
(SEE CONSTRUCTION DETAILS)
JOHN M. NEUSER
HERBERT W. KRUEGER FAMILY LLC.
DENNIS J. FISCHER
BASE AGG PE
BASE AGG FE
N

PROJECT NO: 1500-66-71	HWY: USH 10	COUNTY: MANITOWOC	PLAN	SHEET 79	E

PROPOSED WORK
STA 447+00 - STA 462+00
MILL AND OVERLAY

GORDON J. KOHLBECK

GORDON J. KOHLBECK

RIVERS EDGE TREES & STORAGE

LAKESHORE HEATING & SHEET METAL

N

WPS
(ELECTRIC)

BASE
AGG
PE

BASE
AGG
PE

BASE
AGG
PE

ASP
PE

448+00 450+00 452+00 454+00 USH 10 456+00 458+00 460+00 462+00

WPS
(GAS)

FRONTIER COMMUNICATIONS
(COMMUNICATIONS)

KENNETH N. ZIPPERER

JOSEPH & SUSAN RESCH

5

5

LEGEND

DELINEATED WETLAND BOUNDARY

PROPOSED WORK
STA 462+00 - STA 477+00
MILL AND OVERLAY

DAVID M. AND SANDRA R. KITZ

WILLIAM E. BIRKHOLZ

N

WPS
(ELECTRIC)

BASE
AGG
PE

ASP
PE

462+00 464+00 466+00 468+00 USH 10 470+00 472+00 474+00 476+00

WPS
(GAS)

BASE
AGG
PE

BM 23447

EXISTING 24" CPRC TO REMAIN
2-MARKERS FOR CULVERT END REQ'D

FRONTIER COMMUNICATIONS
(COMMUNICATIONS)

CONTROL POINT 23448
Y=320427.33
X=199622.12
0.75"x24" IRON REBAR WITH
BLUE EMCS CONTROL CAP

JOSEPH & SUSAN RESCH

DAVID J. & BARBARA SCHULTZ

BENCH MARK

NO.	STATION	DESCRIPTION	ELEV.
23447	473+62, 77'RT	CHISLED SQUARE ON NORTH END OF GARAGE FOUNDATION	758.56'

PROJECT NO: 1500-66-71	HWY: USH 10	COUNTY: MANITOWOC	PLAN	SHEET 80	E

FILE NAME : P:\48xx\4816.DP.13.USH 10.MAN\CADDS\Plan\66 resurfacing\050220_pn.dgn PLOT DATE : 6/20/2017 PLOT BY : sgc PLOT NAME : PLOT SCALE : 1:100

PROPOSED WORK
STA 477+00 - STA 492+00
MILL AND OVERLAY

LEGEND
DELINEATED WETLAND BOUNDARY

DAVID D. EISENSHINK

LANDMARK REFERENCE MONUMENTS (BY OTHERS)

T 19 N
R 6 5 E
23

DANIEL R. KIEL

DANMAR RD

END CONSTRUCTION 82' LT
BUTT JOINT REQ'D
(SEE CONSTRUCTION DETAILS)

N

RW

478+00 480+00 482+00 USH 10 484+00 486+00 488+00 490+00 492+00

EXISTING 30" CPRC TO REMAIN
2-MARKERS FOR CULVERT END REQ'D

FRONTIER COMMUNICATIONS
(COMMUNICATIONS)

WPS
(ELECTRIC)

WPS
(GAS)

END CONSTRUCTION 82' RT
BUTT JOINT REQ'D
(SEE CONSTRUCTION DETAILS)

FAIRWAY DR

BRANCH RIVER ESTATE OWNERS

MARC D. & TERESA A. ALBANESE

DANIEL C. & JOAN LINSMEIER

DANIEL C. & JOAN LINSMEIER

5

5

N

LEGEND
DELINEATED WETLAND BOUNDARY

PROPOSED WORK
STA 492+00 - STA 507+00
MILL AND OVERLAY

DANIEL R. KIEL

DANIEL R. KIEL

RW

EXISTING 30" CPRC TO REMAIN
2-MARKERS FOR CULVERT END REQ'D

492+00 494+00 USH 10 496+00 498+00 500+00 502+00 504+00 506+00

ASP
PE

FRONTIER COMMUNICATIONS
(COMMUNICATIONS)

WPS
(GAS)

WPS
(ELECTRIC)

TOWN OF MANITOWOC RAPIDS

BRANCH RIVER ASSOC. LLC.

PROJECT NO: 1500-66-71	HWY: USH 10	COUNTY: MANITOWOC	PLAN	SHEET 81	E

FILE NAME : P:\48xx\4816.DP.13.USH 10.MAN\CADDS\Plan\66 resurfacing\050221_pn.dgn PLOT DATE : 6/20/2017 PLOT BY : sgc PLOT NAME : PLOT SCALE : 1:100

WISDOT/CADDS SHEET 44

PROPOSED WORK
STA 507+00 - STA 522+00
MILL AND OVERLAY

LEGEND
DELINEATED WETLAND BOUNDARY

DANIEL R. KIEL

CARL T. & JANE E. LAVECK

DEER LN

VILLAGE DR

N

END CONSTRUCTION 69'LT
BUTT JOINT REQ'D
(SEE CONSTRUCTION DETAILS)

508+00 510+00 512+00 514+00 USH 10 516+00 518+00 520+00 522+00

EXISTING 30" CPRC TO REMAIN
2-MARKERS FOR CULVERT END REQ'D

FRONTIER COMMUNICATIONS
(COMMUNICATIONS)

WPS
(ELECTRIC)

EXISTING 30" CPRC TO REMAIN
2-MARKERS FOR CULVERT END REQ'D

END CONSTRUCTION 61'RT
(SEE CONSTRUCTION DETAILS)

BASE
AGG
FE

WPS
(GAS)

AT&T WISCONSIN
(COMMUNICATIONS)

BRANCH RIVER ASSOC. LLC.

BRANCH RIVER ASSOC. LLC.

5

5

VILLAGE DR

DERRICK J. KONZ

END CONSTRUCTION 71'LT
BUTT JOINT REQ'D
(SEE CONSTRUCTION DETAILS)

BRANCH RIVER RD

BRIAN & ANN HETUE

EXISTING 30" CPRC TO REMAIN
2-MARKERS FOR CULVERT END REQ'D

CONTROL POINT 23450
Y=320241.63
X=205162.54
0.75"x24" IRON REBAR WITH
BLUE EMCS CONTROL CAP

WPS
(GAS)

END PROJECT
STA 529+73.80
BUTT JOINT REQ'D

522+00 524+00 526+00 USH 10 528+00 530+00 532+00

ASP
CE

BM 23449

ASP
CE

ASP
CE

AT&T WISCONSIN
(COMMUNICATIONS)

FRONTIER COMMUNICATIONS
(COMMUNICATIONS)

COMCAST
(COMMUNICATIONS)

END CONSTRUCTION 68'RT
BUTT JOINT REQ'D
(SEE CONSTRUCTION DETAILS)

MICHALE J.
WILLIAMSON

WPS
(GAS)

BRANCH RIVER RD

EDWARD F. VANDERBLO

COUNTRY VISIONS CORPORATION

RIVER CENTRAL LLP.

BRADLEY & LISA
A. SEEFELDT

PROPOSED WORK
STA 522+00 - STA 529+73.80
MILL AND OVERLAY

N

BENCH MARK

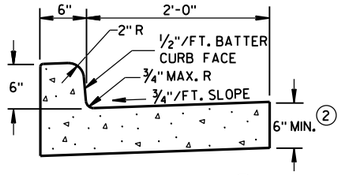
NO.	STATION	DESCRIPTION	ELEV.
23449	524+93, 36'RT	CHISLED SQUARE ON NE CORNER OF USPS MAILBOX SLAB	730.87'

PROJECT NO: 1500-66-71	HWY: USH 10	COUNTY: MANITOWOC	PLAN	SHEET 82	E

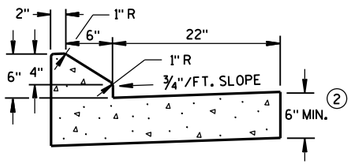
FILE NAME : P:\48xx\4816.DP.13.USH 10.MAN\CADDS\Plan\66 resurfacing\050222_pn.dgn PLOT DATE : 6/20/2017 PLOT BY : sgc PLOT NAME : PLOT SCALE : 1:100

Standard Detail Drawing List

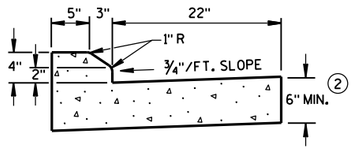
08D01-19	CONCRETE CURB, CONCRETE CURB AND GUTTER AND TIES
08D04-05	CONCRETE SURFACE DRAINS & ASPHALTIC FLUMES
08E08-03	TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS
08E09-06	SILT FENCE
08E10-02	INLET PROTECTION TYPE A, B, C AND D
08F01-11	APRON ENDWALLS FOR CULVERT PIPE
08F04-07	JOINT TIES FOR CONCRETE PIPE AND CONCRETE COLLAR DETAIL
08F10-01	CONCRETE MASONRY ENDWALLS FOR CULVERT PIPE AND PIPE ARCH
13A11-02A	2-LANE RURAL CENTER LINE RUMBLE STRIP, MILLING
13A11-02B	2-LANE RURAL CENTER LINE RUMBLE STRIP, MILLING
14B29-01	SAFETY EDGE
14B42-04A	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-04B	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-04C	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B44-02A	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B44-02B	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B44-02C	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
15A03-02A	FLEXIBLE MARKER POST FOR CULVERT END
15A03-02B	FLEXIBLE MARKER POST FOR CULVERT END
15C04-03	TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 M.P.H. OR GREATER TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC
15C08-17A	LONGITUDINAL MARKING (MAINLINE)
15C12-05	TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION
15C19-04A	MOVING PAVEMENT MARKING OPERATION TWO-LANE TWO-WAY ROADWAY
15C35-01A	PAVEMENT MARKING (INTERSECTIONS)
15D28-03	TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY
15D38-01A	TEMPORARY TRAFFIC CONTROL FIXED MESSAGE SIGNS
15D38-01B	ATTACHMENT OF SIGNS TO POSTS



TYPES A & D ①

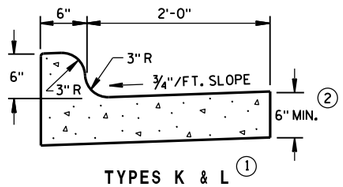


6" SLOPED CURB TYPES G & J ①

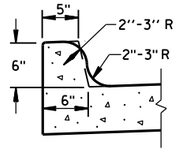


4" SLOPED CURB TYPES G & J ①

CONCRETE CURB & GUTTER 30"

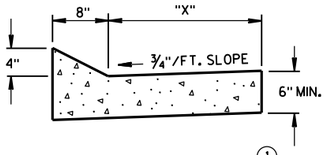


TYPES K & L ①



OPTIONAL CURB SHAPE FOR TYPES K & L ①

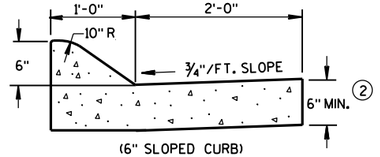
CONCRETE CURB & GUTTER 30"



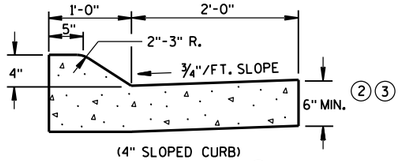
TYPES TBT & TBTT ①

CONCRETE CURB & GUTTER

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

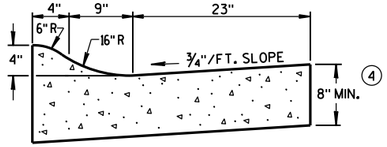


(6" SLOPED CURB)



(4" SLOPED CURB)

TYPES A & D ①



4" SLOPED CURB TYPES R & T ①⑤

CONCRETE CURB & GUTTER 36"

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. A LONGITUDINAL CONSTRUCTION JOINT IS NOT REQUIRED WITH INTEGRAL CURB AND GUTTER.

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.

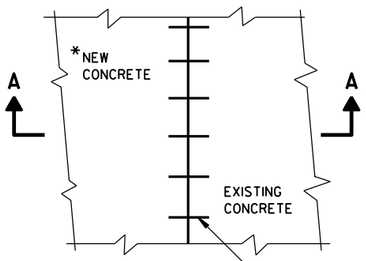
② THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 6" MINIMUM GUTTER THICKNESS IS MAINTAINED.

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.

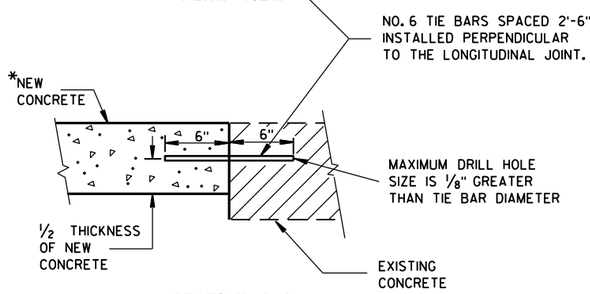
⑤ THE FACE OF CURB IS 6" FROM THE BACK OF CURB.

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



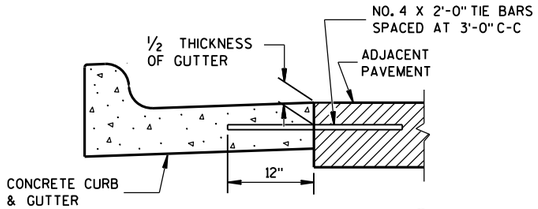
PLAN VIEW

*NEW CURB & GUTTER, SURFACE DRAINS, CONCRETE PAVEMENT OR OTHER NEW CONCRETE.

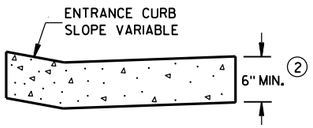


SECTION A-A

TIE BARS DRILLED INTO EXISTING PAVEMENT

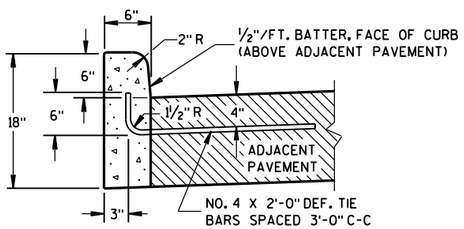


TYPICAL TIE BAR LOCATION ①

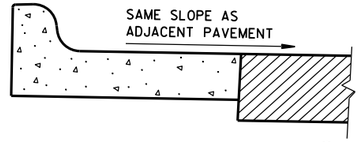


DRIVEWAY ENTRANCE CURB

(WHEN DIRECTED BY THE ENGINEER)

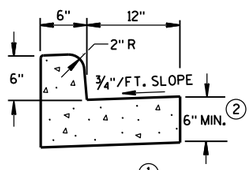


① TYPES A & D



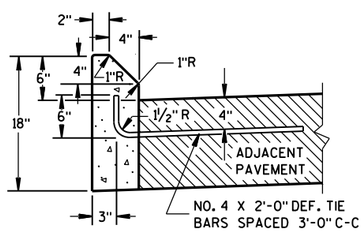
⑥ REVERSE SLOPE GUTTER

(TYPICAL FOR ALL CURB & GUTTER TYPES)



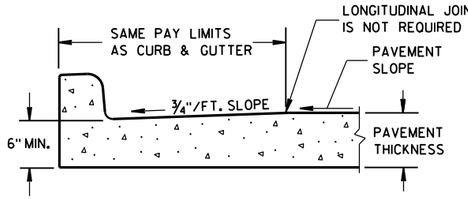
① TYPES A & D

CONCRETE CURB & GUTTER 18"

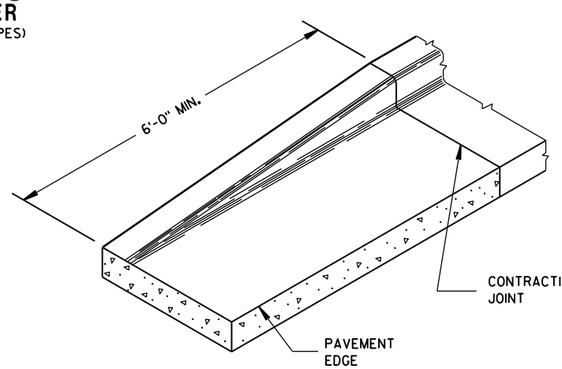


① TYPES G & J

CONCRETE CURB



PARTIAL SECTION OF PAVEMENT WITH INTEGRAL CURB & GUTTER



END SECTION CURB & GUTTER

CONCRETE CURB, CONCRETE CURB & GUTTER AND TIES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

June, 2016 — DATE

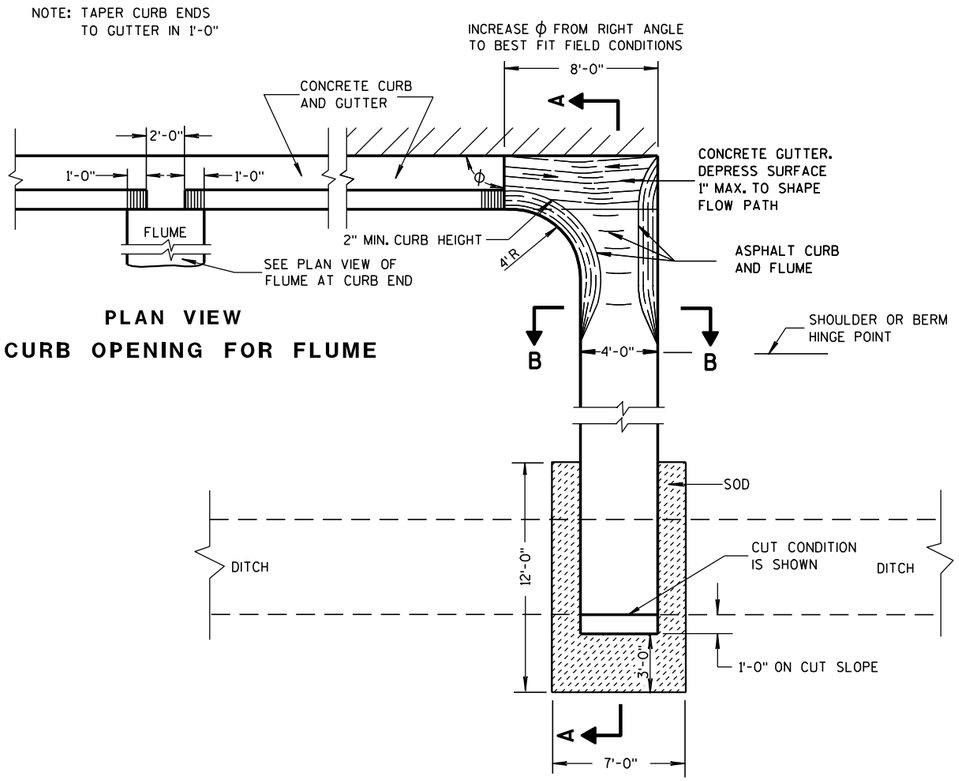
/S/ Jerry H. Zogg — ROADWAY STANDARDS DEVELOPMENT ENGINEER

FHWA

6

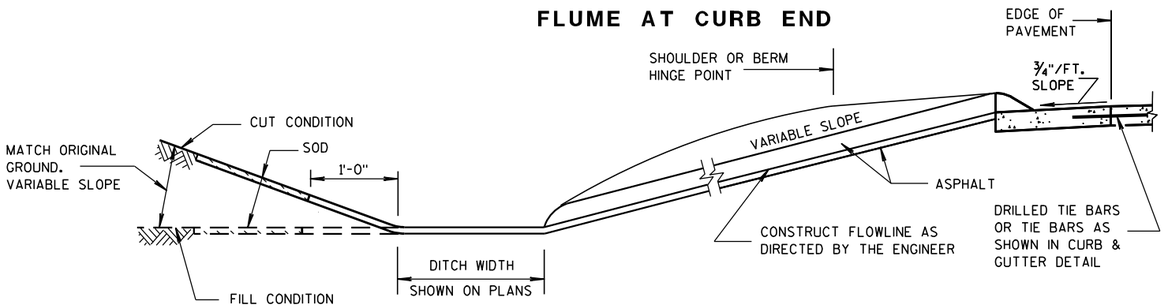
S.D.D. 8 D 1-19

ASPHALTIC FLUME

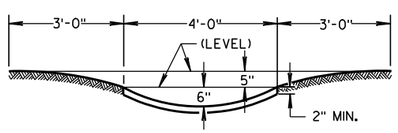


PLAN VIEW
CURB OPENING FOR FLUME

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.

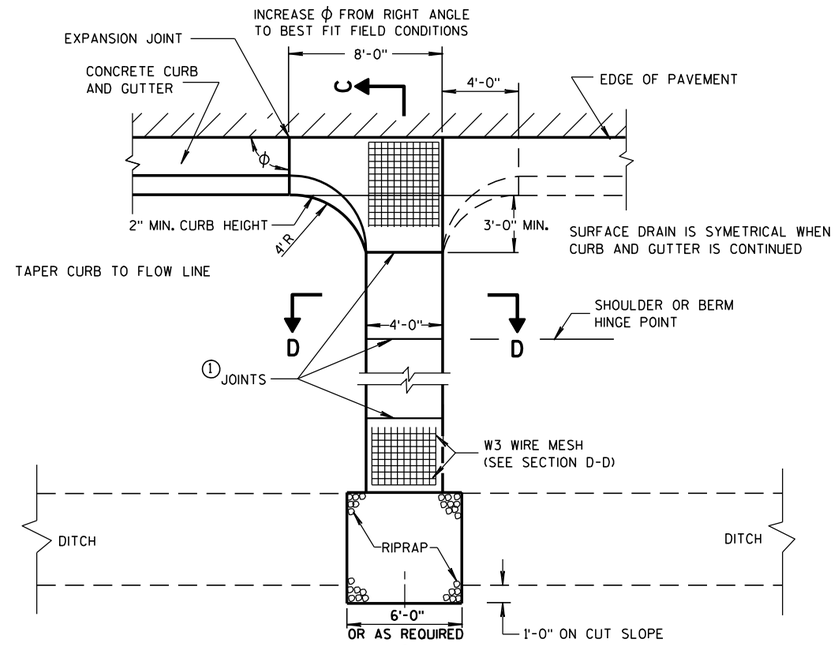
WELDED STEEL WIRE FABRIC SHALL BE IN ACCORDANCE WITH AASHTO SPECIFICATION M55.

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.

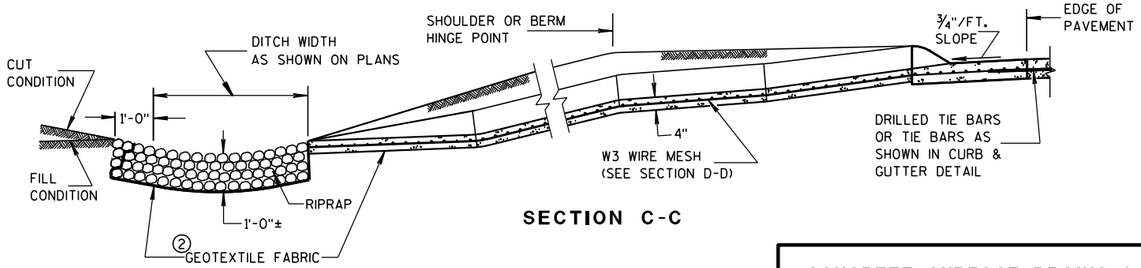
② GEOTEXTILE FABRIC TYPE "R" SHALL UNDERLAY THE FULL LENGTH AND WIDTH OF THE CONCRETE SURFACE DRAIN AND RIPRAP.

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

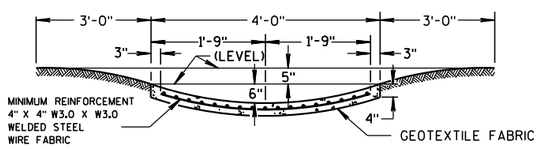
③ CONCRETE SURFACE DRAIN



PLAN VIEW



SECTION C-C



SECTION D-D

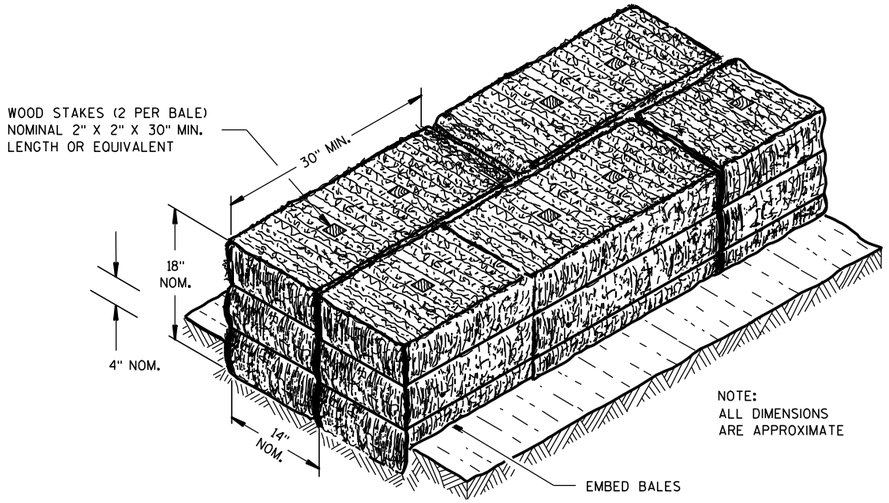
CONCRETE SURFACE DRAINS & ASPHALTIC FLUMES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

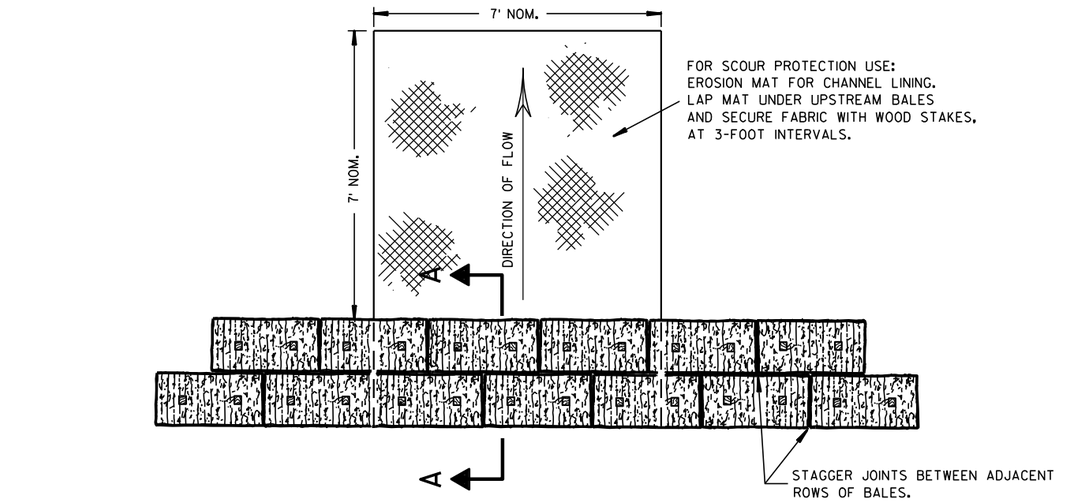
APPROVED

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

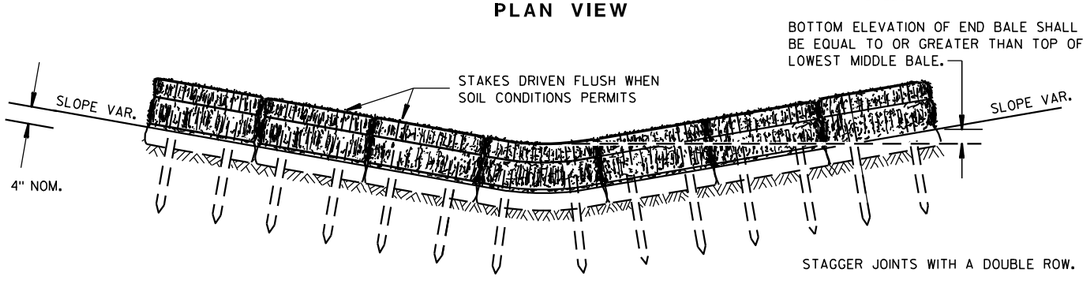
FHWA



SECTION A-A



PLAN VIEW



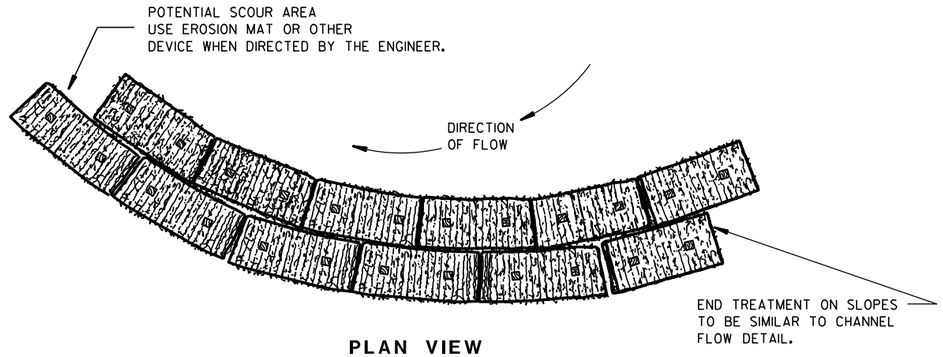
FRONT ELEVATION

TEMPORARY DITCH CHECK USING EROSION BALES (1)

GENERAL NOTES

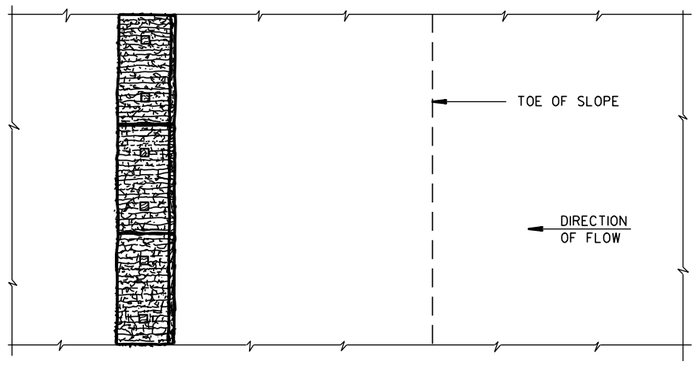
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

(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.

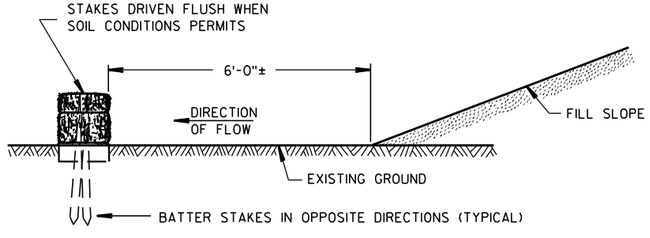


PLAN VIEW

WHEN ALTERING THE DIRECTION OF FLOW



PLAN VIEW



FRONT ELEVATION

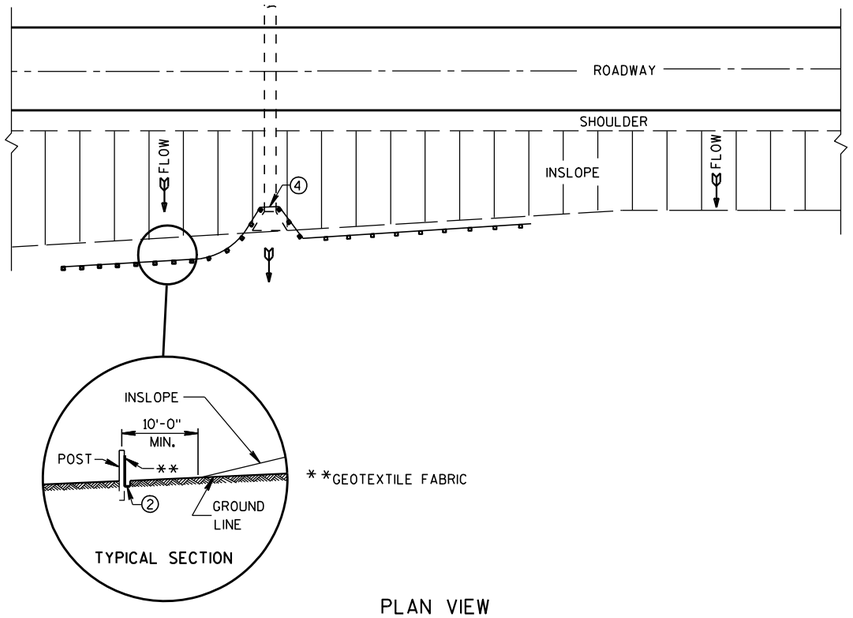
WHEN EXISTING GROUND SLOPES AWAY FROM FILL SLOPE

EROSION BALES FOR SHEET FLOW

TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS

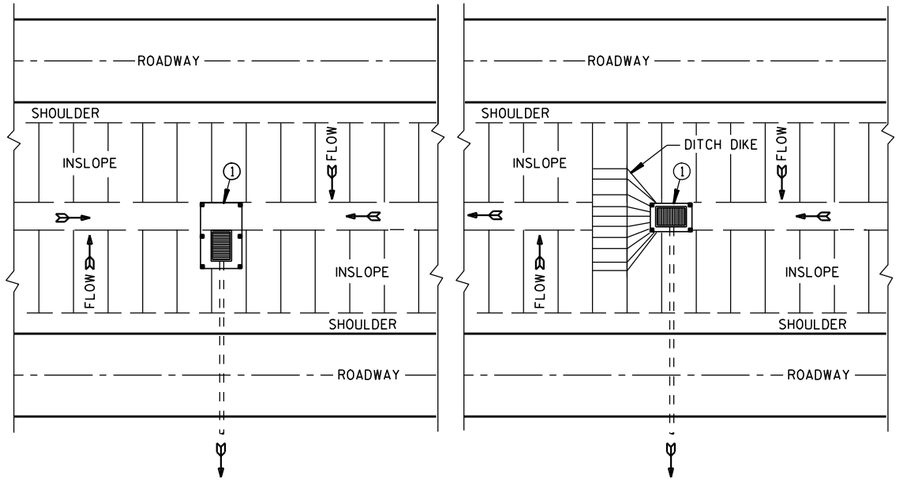
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
6/04/02 DATE
/S/ Beth Cannestra
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA



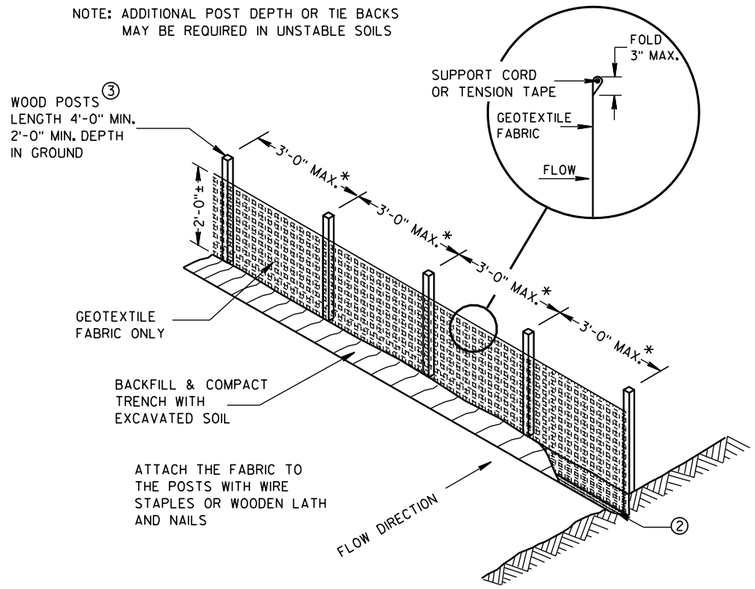
PLAN VIEW

TYPICAL APPLICATION OF SILT FENCE



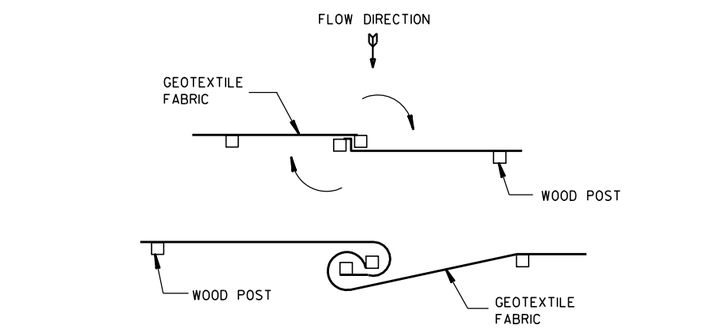
PLAN VIEW

SILT FENCE AT MEDIAN SURFACE DRAINS

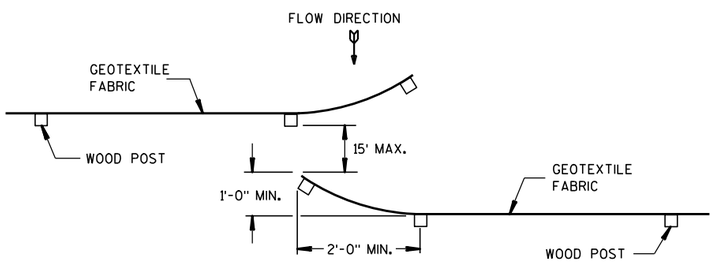


*NOTE: 8'-0" POST SPACING ALLOWED IF A WOVEN GEOTEXTILE FABRIC IS USED.

SILT FENCE



TWIST METHOD



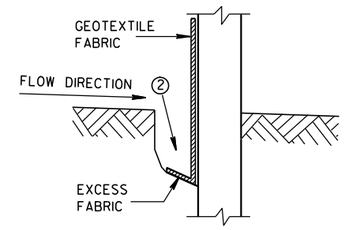
HOOK METHOD

JOINING TWO LENGTHS OF SILT FENCE 5

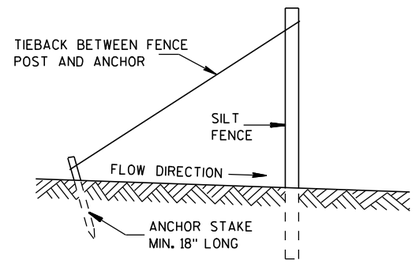
GENERAL NOTES

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 TIE BACK

(WHEN REQUIRED BY THE ENGINEER)

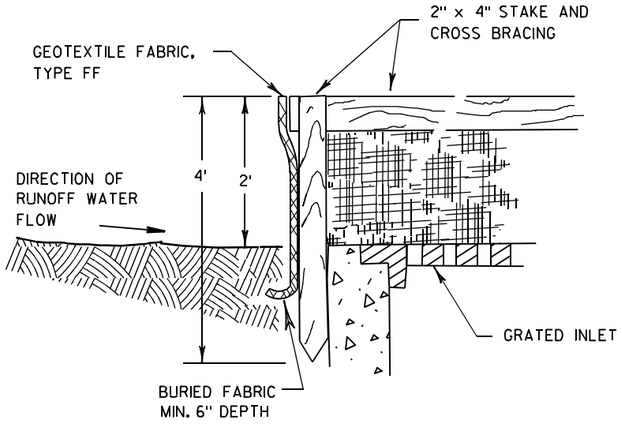
SILT FENCE

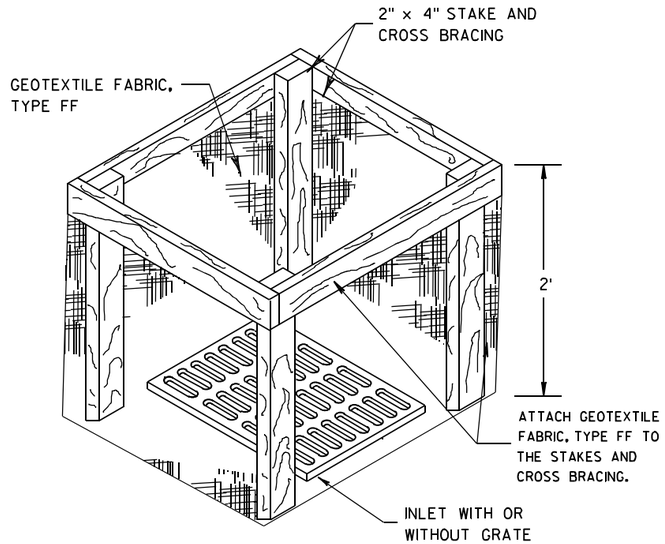
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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

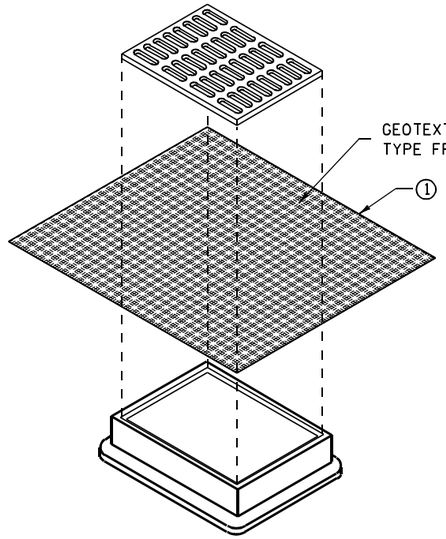
S.D.D. 8 E 9-6

6



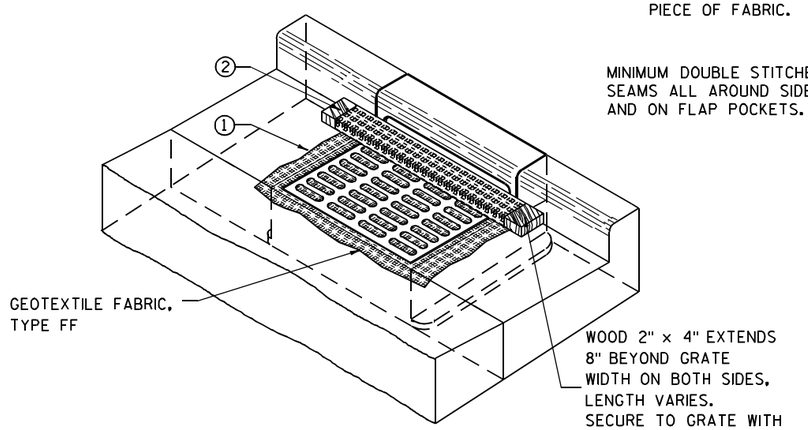


INLET PROTECTION, TYPE A

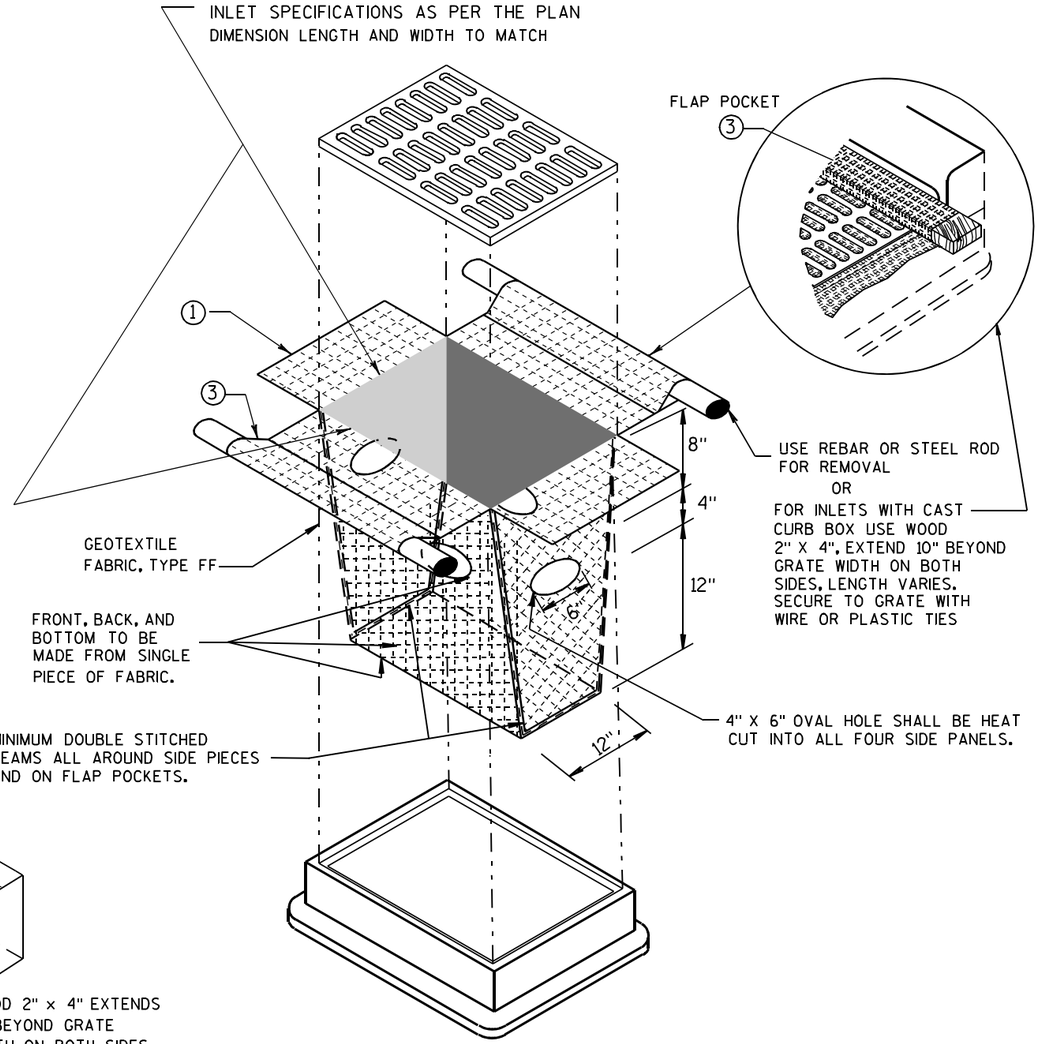


INLET PROTECTION, TYPE B
(WITHOUT CURB BOX)

(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

METAL APRON ENDWALLS

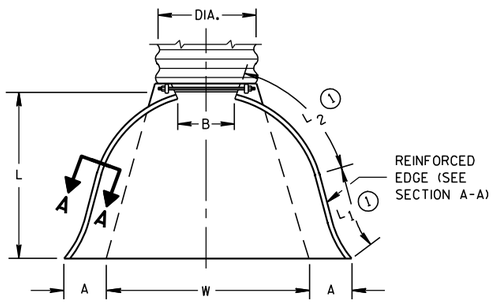
PIPE DIA. (IN.)	MIN. THICK. (Inches) STEEL	MIN. THICK. (Inches) ALUM.	DIMENSIONS (Inches) A (±1")	B (MAX.)	H (±1")	L (±1 1/2")	L1 ①	L2 ①	W (±2")	APPROX. SLOPE	BODY
12	.064	.060	6	6	6	21	12	17 1/2	24	2 1/2 to 1	1 Pc.
15	.064	.060	7	8	6	26	14	21 3/4	30	2 1/2 to 1	1 Pc.
18	.064	.060	8	10	6	31	15	28 1/4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

× EXCEPT CENTER PANEL SEE GENERAL NOTES

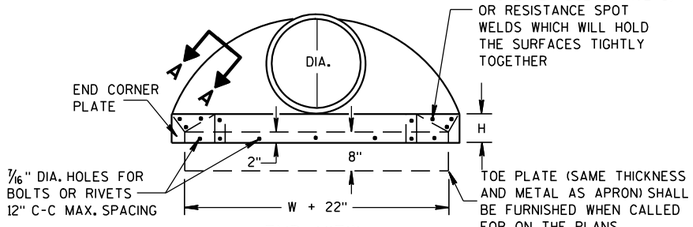
REINFORCED CONCRETE APRON ENDWALLS

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

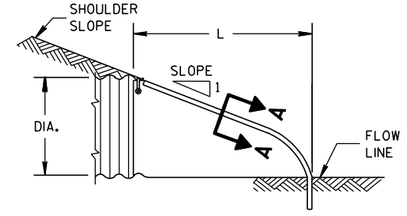
*MINIMUM
**MAXIMUM



PLAN VIEW

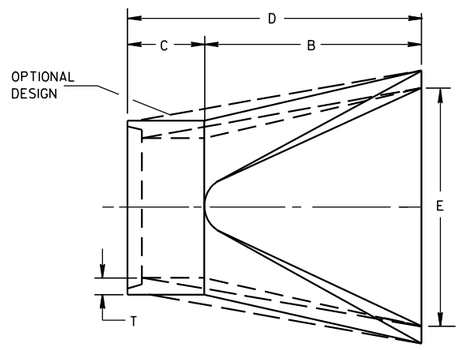


END VIEW

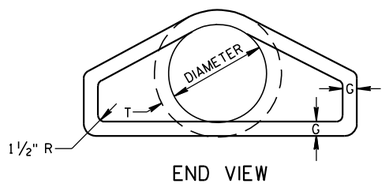


SIDE ELEVATION

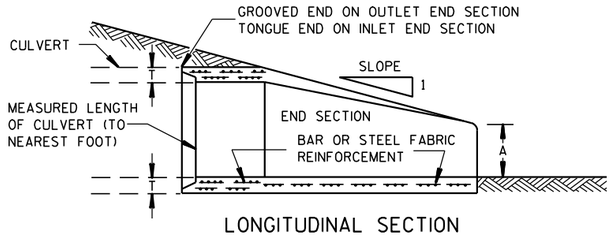
METAL ENDWALLS



PLAN

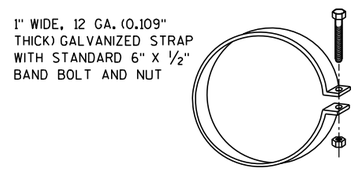


END VIEW



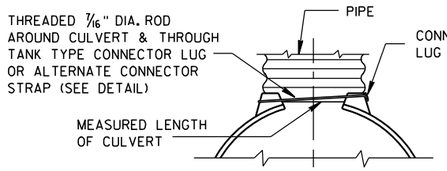
LONGITUDINAL SECTION

CONCRETE ENDWALLS

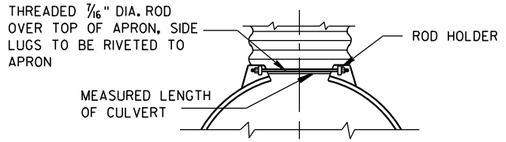


ALTERNATE FOR TYPE 1 CONNECTION

END SECTION CONNECTOR STRAP

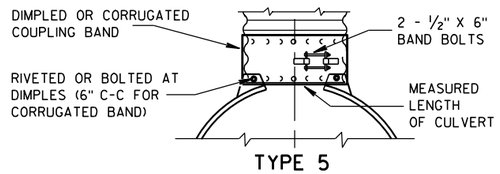


TYPE 1
FOR 12" THRU 24" CORR. PIPE



TYPE 2
FOR 30" THRU 96" CORR. PIPE

TYPE 3
FOR 42" THRU 96" CORR. PIPE



TYPE 5
ALTERNATE FOR:
ALL SIZES CORRUGATED CIRCULAR PIPE

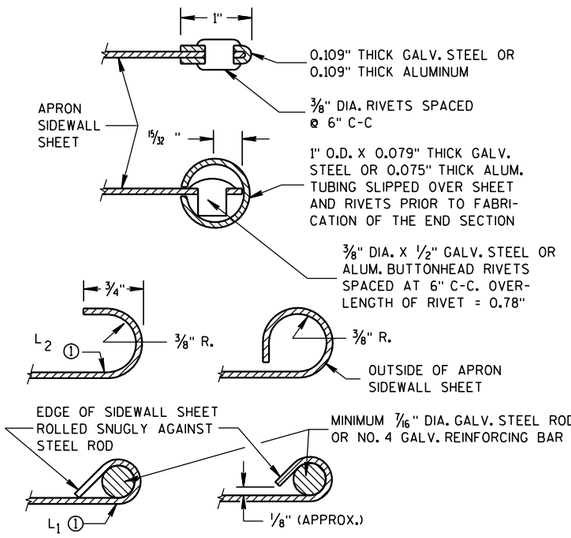
NOTE: DIMPLED BAND FITS OVER OUTSIDE OF ENDWALL. AND CORRUGATED BAND FITS INSIDE ENDWALL. DIMPLED BAND MAY BE USED WITH HELICALLY CORRUGATED PIPE.

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

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

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

CONNECTION DETAILS



SECTION A-A

GENERAL NOTES

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

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

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

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

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

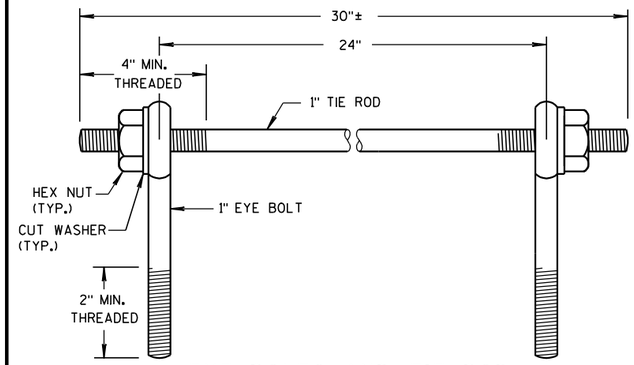
① FOR PIPE SIZES UP TO 60" DIAMETER, A 180° ROLLED EDGE MAY BE USED INSTEAD OF STEEL ROD REINFORCEMENT. SEE SECTION A-A.

APRON ENDWALLS FOR CULVERT PIPE

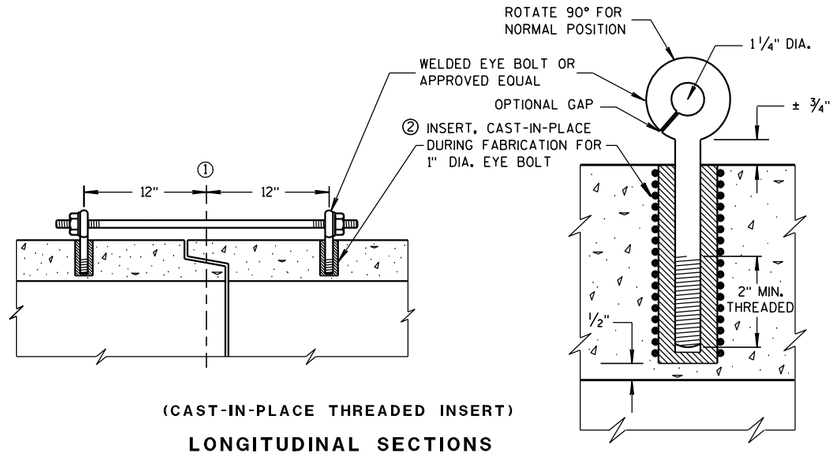
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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

6
S.D.D. 8 F 1-11



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.

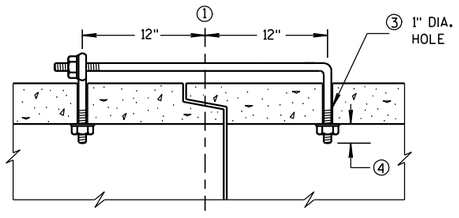
② THE INSIDE OF THE THREADED INSERTS SHALL BE CLEAN TO ALLOW THE INSERTION OF THREADED EYE BOLTS.

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

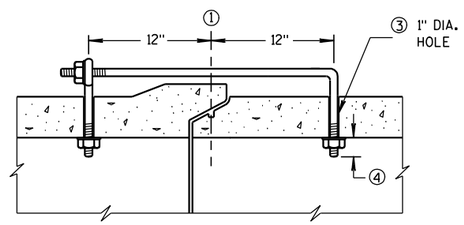
④ BOLT PROJECTION INSIDE OF PIPE SHALL NOT EXCEED 2 INCHES.

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)

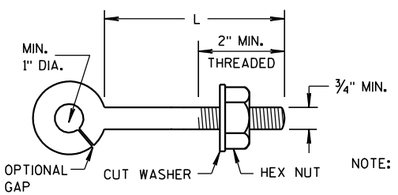


(MODIFIED BELL PIPE)

LONGITUDINAL SECTION

EYE BOLT DIMENSION TABLE

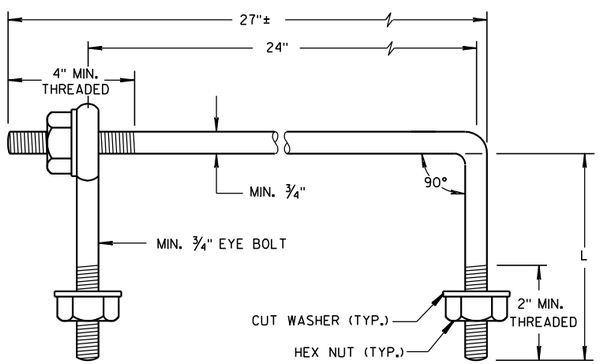
PIPE SIZE	L = LENGTH	
	TONGUE & GROOVE PIPE	MODIFIED BELL PIPE
18" TO 24"	4 1/2"	6 1/4"
30"	5"	7"
36"	5 1/2"	7"
42"	6"	
48"	6 1/2"	
60"	7 1/2"	
66"	8"	



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

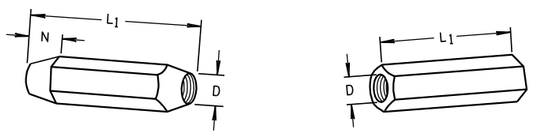
(JOINT TIES FOR 18" TO 66" DIA. CONCRETE PIPE)

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

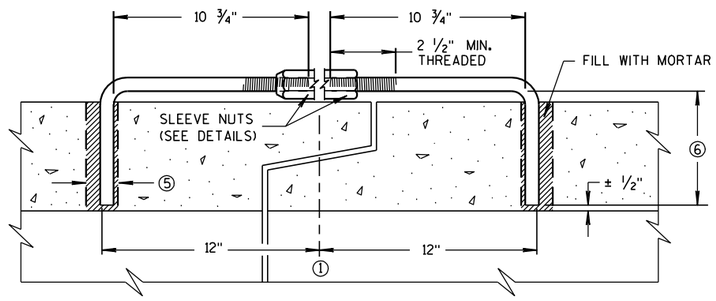
DIMENSIONS SHOWN ARE IN INCHES



TAPERED PLAIN

RIGHT AND LEFT THREADS

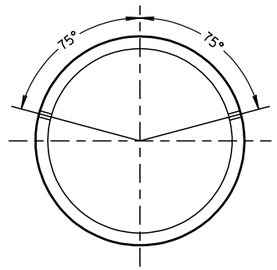
SLEEVE NUTS



LONGITUDINAL SECTION

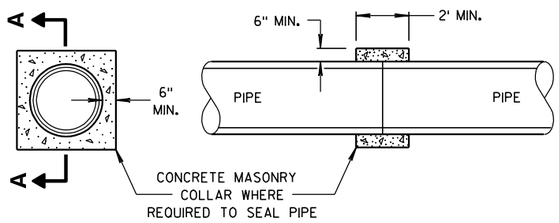
(JOINT TIES FOR 12" TO 108" DIA. CONCRETE PIPE)

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

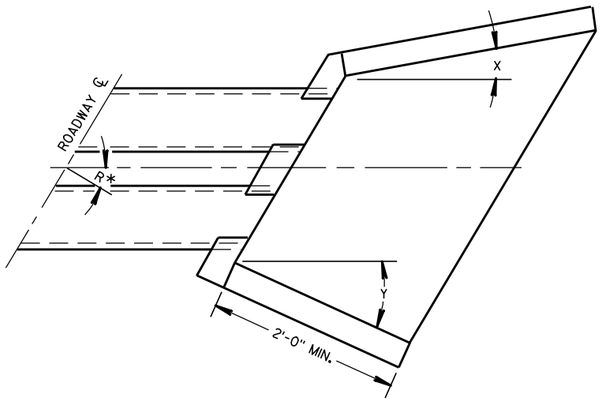
JOINT TIES FOR CONCRETE PIPE AND CONCRETE COLLAR DETAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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

6

S.D.D. 8 F 4-7



WINGWALL ANGLE DETAILS

INLET			OUTLET		
R*	X	Y	R*	X	Y
0 - 7°	30°	30°	0 - 15°	15°	15°
8 - 22°	25°	"	16 - 45°	10°	"
23 - 37°	20°	"	46 - 75°	5°	"
38 - 52°	15°	"	OVER 75°	0°	"
53 - 67°	10°	"			
68 - 82°	5°	"			
OVER 82°	0°	"			

*R = NUMBER OF DEGREES RIGHT OR LEFT HAND FORWARD

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.

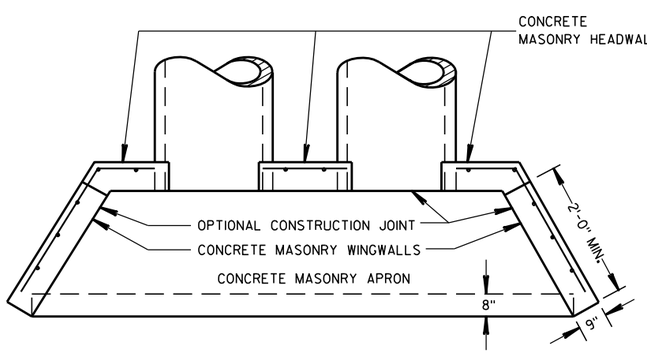
FILL SLOPES FLATTER THAN 2 ½:1 SHALL BE WARPED TO MEET THE TOP OF THE WINGWALLS.

ALL STEEL REINFORCEMENT AND WELDED STEEL WIRE FABRIC SHALL BE EMBEDDED 2 INCHES CLEAR UNLESS OTHERWISE NOTED.

(1) MINIMUM REINFORCEMENT SHALL BE 6" X 6" - W4.0 X W4.0 OR NO. 3 BARS SPACED 12" C-C IN BOTH DIRECTIONS.

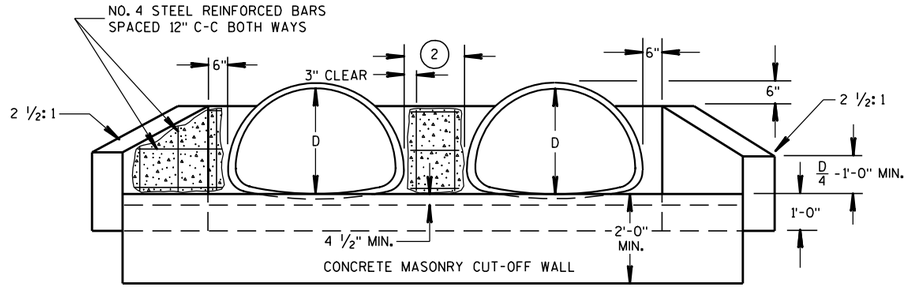
(2) THE SPACE BETWEEN PIPES SHALL BE AS FOLLOWS:

DIAMETER OR SPAN	SPACE
UP TO AND INCLUDING 48"	2'-0"
OVER 48" TO 72"	½ DIA. OR SPAN
OVER 72"	3'-0"



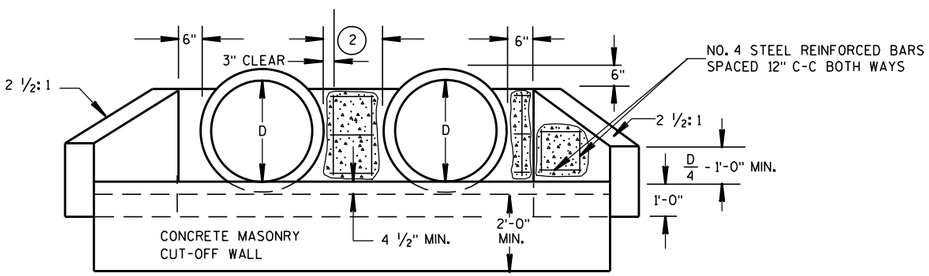
PLAN VIEW

CULVERT PIPE AND PIPE ARCH



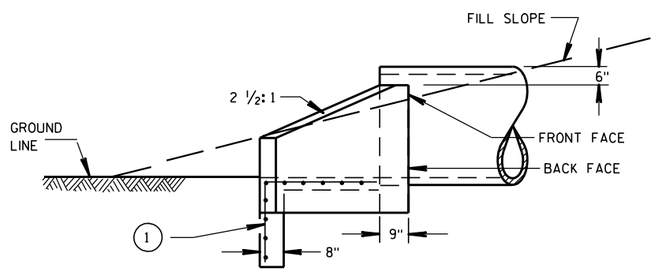
END ELEVATION

PIPE ARCH



END ELEVATION

CULVERT PIPE



SIDE ELEVATION

CULVERT PIPE AND PIPE ARCH

CONCRETE MASONRY ENDWALLS FOR CULVERT PIPE AND PIPE ARCH

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

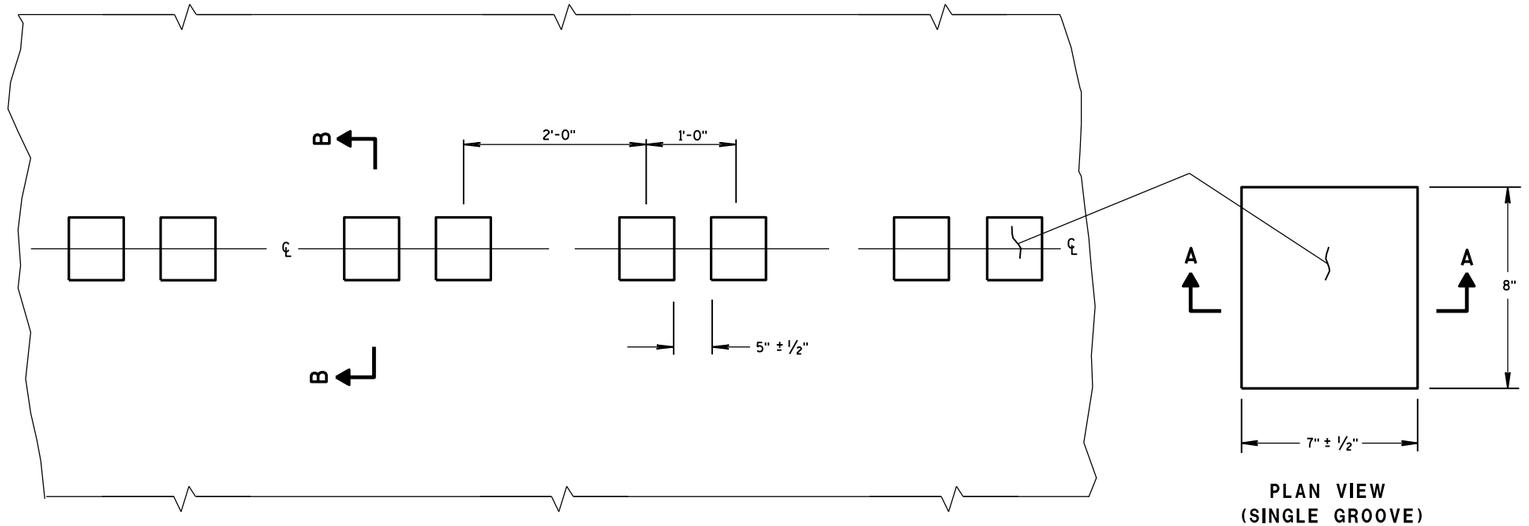
9/14/98 — DATE

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

FHWA

6

S.D.D. 8 F 10-1



PLAN VIEW
CENTER LINE WITH GROOVES

PLAN VIEW
(SINGLE GROOVE)

PLACEMENT DETAIL FOR MILLED RUMBLE STRIP

GENERAL NOTES

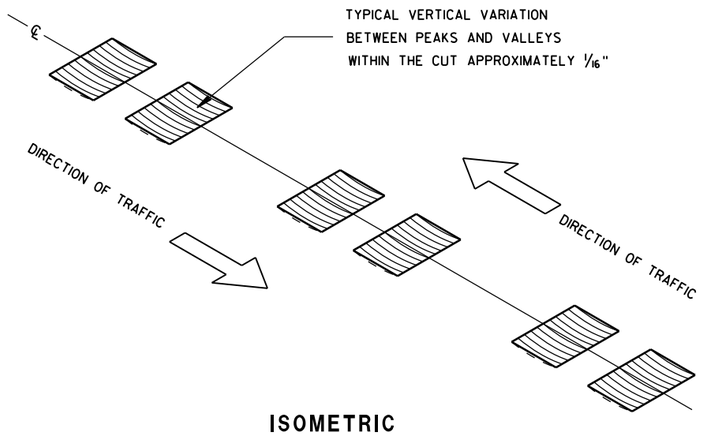
DETAILS OF CONSTRUCTION SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

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

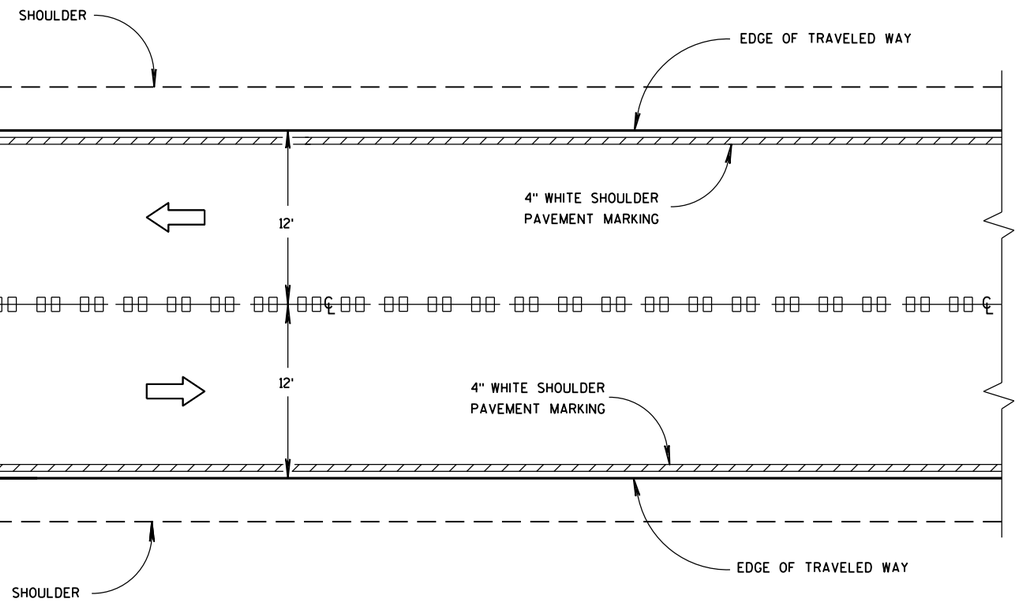
INSTALL PAVEMENT MARKING AFTER THE GROOVES ARE INSTALLED.

SEE SIGNING PLAN FOR SIGN REQUIREMENTS THAT MAY BE NEEDED.

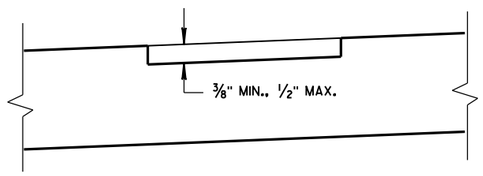
(1) CENTERLINE GROOVES MAY BE OMITTED IN AREAS WITH HIGH CONCENTRATIONS OF DRIVEWAYS, WHEN DIRECTED BY THE ENGINEER.



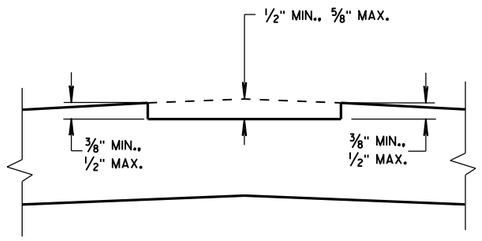
ISOMETRIC



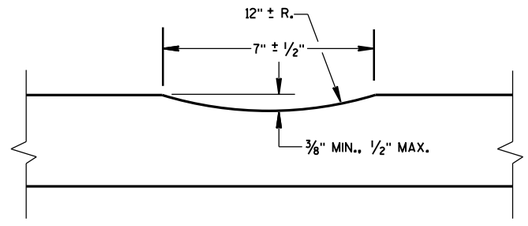
CENTER LINE GROOVES ON TWO-WAY ROADWAYS



SECTION B-B
SUPERELEVATED ROADWAY



SECTION B-B
CROWNED ROADWAY



SECTION A-A

6

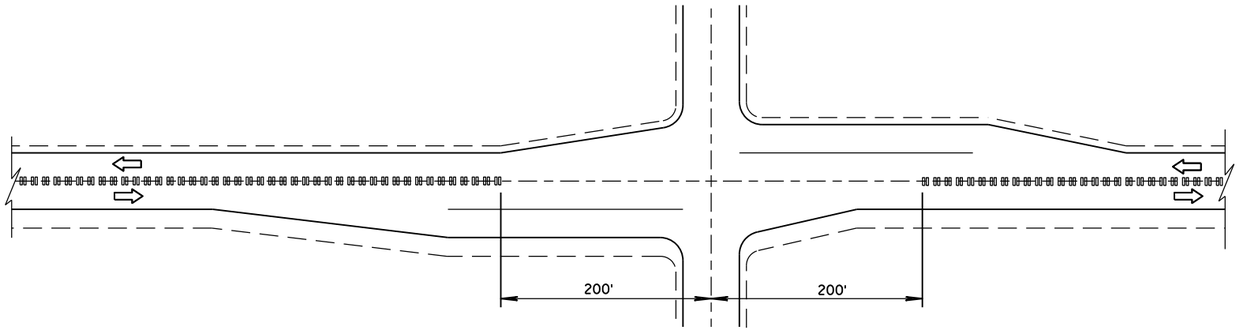
6

S.D.D. 13 A 11-2a

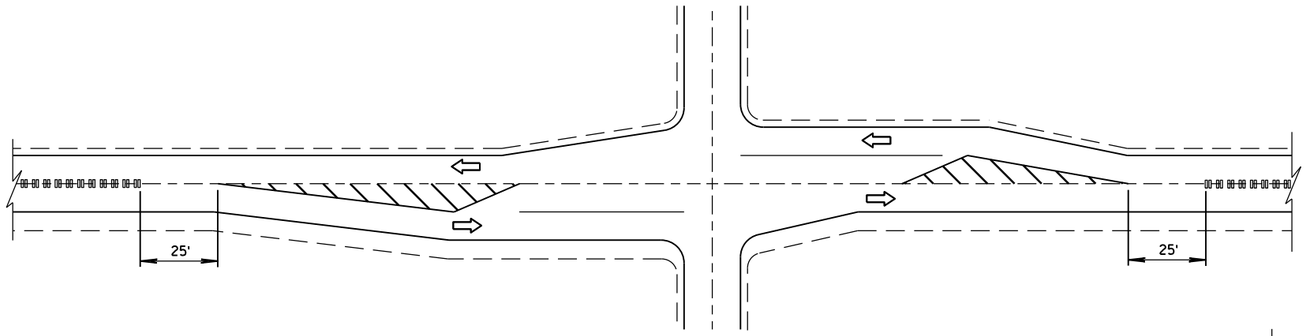
S.D.D. 13 A 11-2a

2-LANE RURAL
CENTER LINE RUMBLE STRIP, MILLING

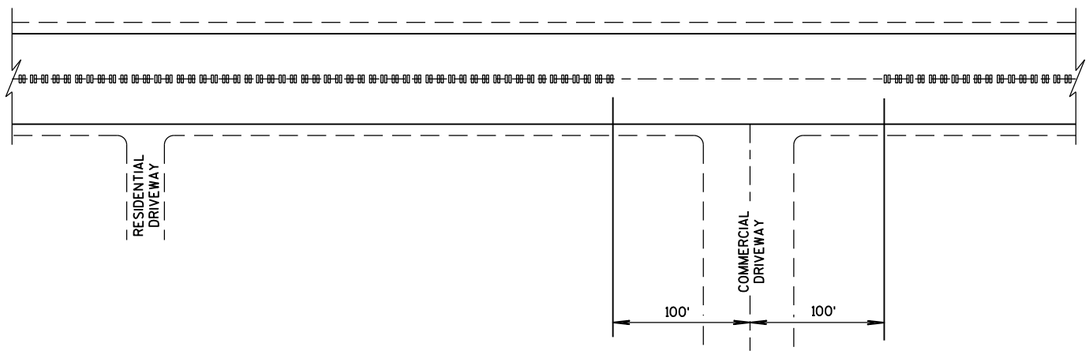
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI



CENTER LINE GROOVES AT INTERSECTIONS

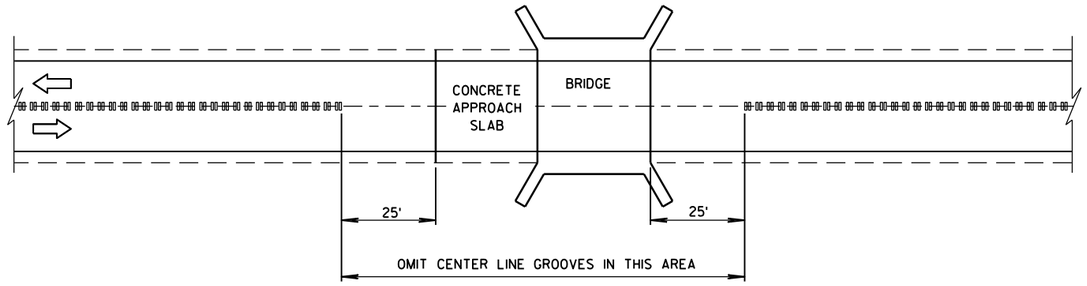


CENTER LINE GROOVES AT INTERSECTIONS
(WITH LEFT TURN LANES)

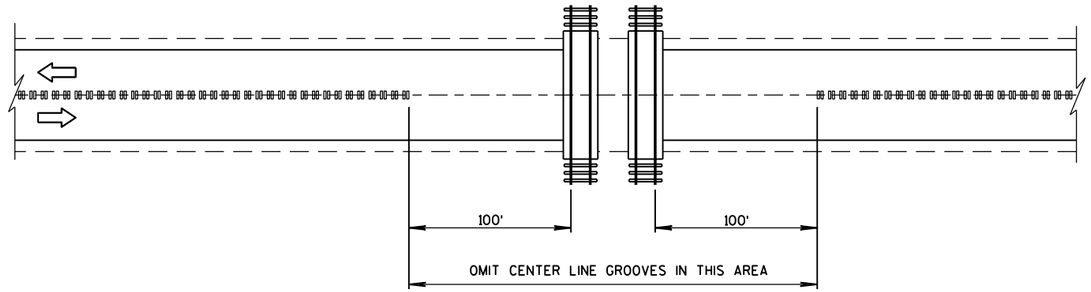


CENTER LINE GROOVES AT DRIVEWAYS (1)

(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 11-2b

6

S.D.D. 13 A 11-2b

2-LANE RURAL
CENTER LINE RUMBLE STRIP, MILLING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

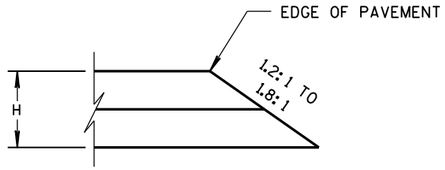
APPROVED

5/15/2013
DATE

/S/ Jerry H. Zoda
ROADWAY STANDARDS DEVELOPMENT ENGINEER

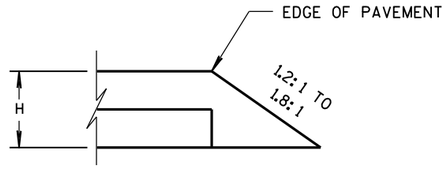
NT

FHWA



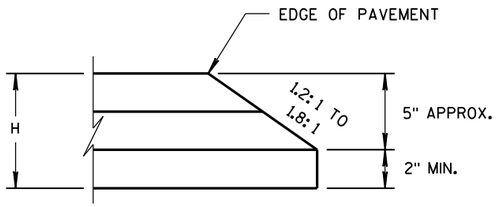
CONSTRUCTED WITH FINAL TWO LAYERS

FOR H 5" OR LESS



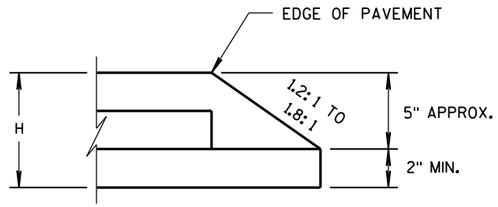
CONSTRUCTED WITH FINAL LAYER

FOR H 5" OR LESS



CONSTRUCTED WITH FINAL TWO LAYERS

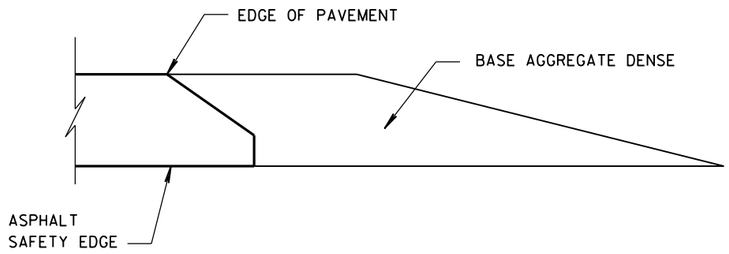
FOR H GREATER THAN 5"



CONSTRUCTED WITH FINAL LAYER

FOR H GREATER THAN 5"

HMA PAVEMENT AND HMA OVERLAYS



FINISHED SHOULDER AGGREGATE PLACEMENT

6

SAFETY EDGE SM

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

11/30/2012
DATE

/S/ Jerry H. Zoda
ROADWAY STANDARDS DEVELOPMENT ENGINEER

FHWA

S.D.D. 14 B 29-1

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

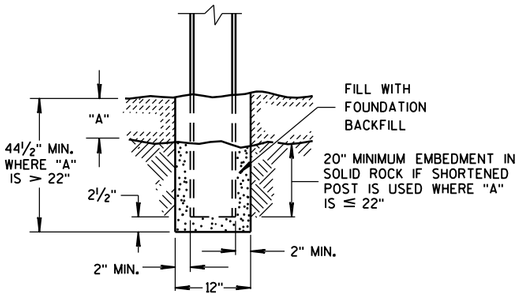
② USE WOOD OR APPROVED PLASTIC BLOCKOUTS. WOOD BLOCKOUTS MAY BE CONSTRUCTED OUT OF TWO OR MORE WOOD BLOCKOUTS. SEE ALTERNATE WOOD BLOCKOUT DETAIL. DIMENSIONS OF APPROVED PLASTIC BLOCKOUTS MAY VARY.

③ IF ROCK IS ENCOUNTERED DURING EXCAVATION, PROVIDE A HOLE 12 INCHES IN DIAMETER EXTENDING 20 INCHES DEEP INTO THE ROCK. PLACE APPROXIMATELY 2½ INCHES OF GRANULAR MATERIAL IN THE BOTTOM OF THE HOLE. CUT THE POSTS THE TO LENGTH AMD INSTALL. BACKFILL WITH EXCAVATED MATERIAL AND COMPACT. BACKFILL IS TO BE FREE OF LARGE ROCKS.

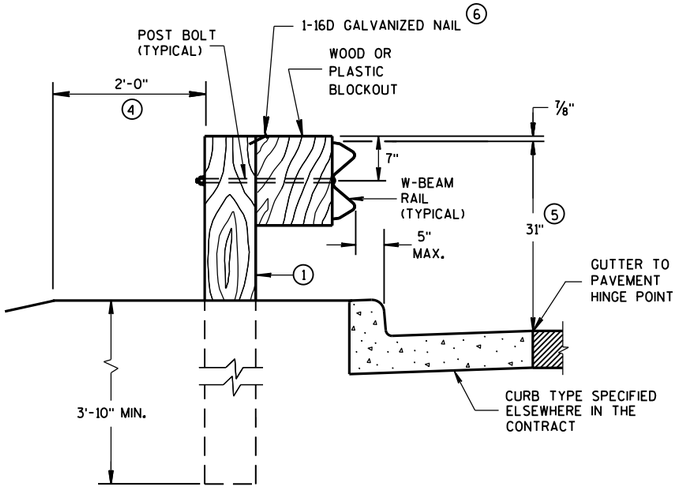
④ WHEN THE DISTANCE FROM BACK OF POST TO SHOULDER HINGE POINT IS LESS THAN 2 FEET INSTALL LONGER POST AT HALF POST SPACING (K).

⑤ FOR NEW MGS INSTALLATION TOP OF W-BEAM RAIL TOLERANCE IS ± 1". FOR EXISTING MGS INSTALLATION TOP OF W-BEAM IS BETWEEN 27¾" TO 32".

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



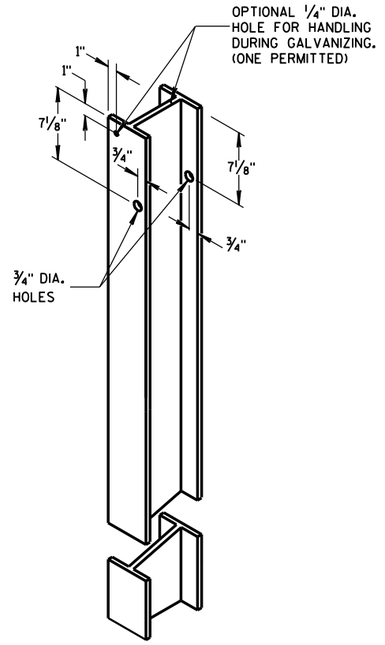
END VIEW
SETTING STEEL OR WOOD POST IN ROCK ③



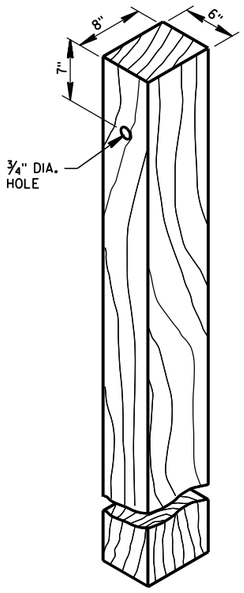
END VIEW
LOCATED ALONG A CURBED ROADWAY

END VIEW
LOCATED ALONG A ROADWAY SHOULDER
STANDARD INSTALLATION

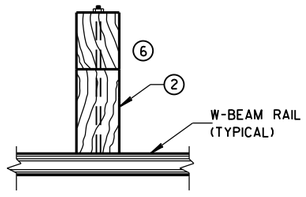
END VIEW
MGS LONGER POST AT HALFPOST SPACING W BEAM (K)



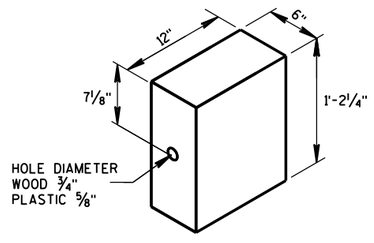
STEEL POST &
HOLE PUNCHING DETAIL
(w6X9) ①



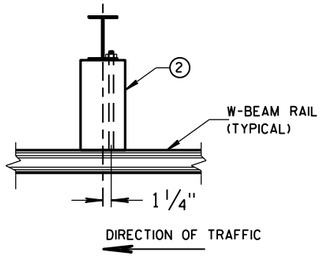
WOOD POST
(6" X 8") NOMINAL ①



PLAN VIEW
WOOD POST,
BLOCKOUT & BEAM



WOOD OR
PLASTIC BLOCKOUT ②



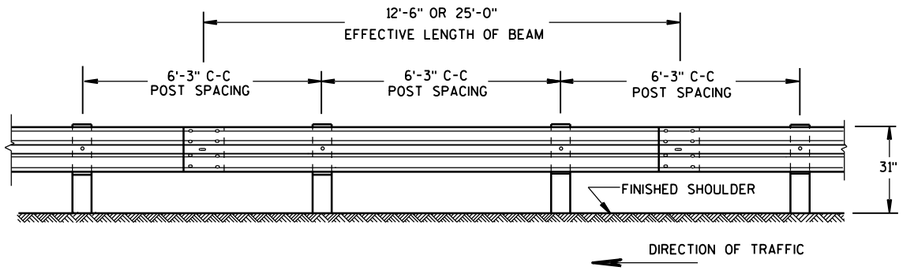
PLAN VIEW
STEEL POST,
PLASTIC BLOCKOUT & BEAM

MIDWEST GUARDRAIL SYSTEM
(MGS) GUARDRAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPO

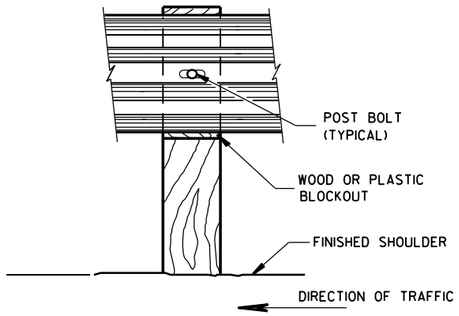
6

S.D.D. 14 B 42-4a



FRONT VIEW

POST SPACING STANDARD INSTALLATION



FRONT VIEW AT WOOD POST

7. PROVIDE SILVER REFLECTIVE SHEETING ON ALL REFLECTORS EXCEPT THOSE LOCATED ALONG THE LEFT EDGE OF ONE-WAY ROADWAYS, WHICH SHALL BE PROVIDED WITH YELLOW REFLECTIVE SHEETING. SHEETING IS TYPE H. SEE STANDARD SPECIFICATION 637.

8. DO NOT INSTALL REFLECTORS ON THE FIRST 50 FEET OF THE APPROACH END OF THE ENERGY ABSORBING TERMINAL. RAIL SPLICE LOCATIONS ARE THE ONLY ACCEPTABLE LOCATIONS FOR REFLECTORS.

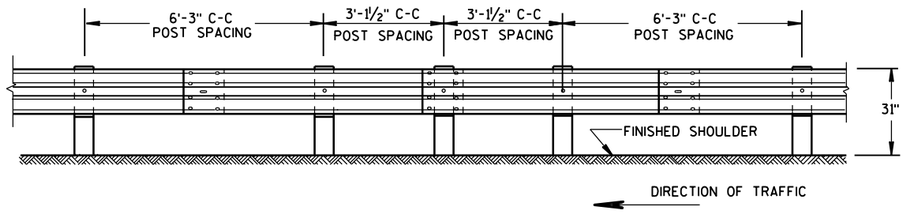
9. REVERSE EVERY OTHER REFLECTOR FOR 2-WAY VISIBILITY. THE CONTRACTOR MAY FURNISH TWO-SIDED REFLECTORS IN LIEU OF ONE-SIDED REFLECTORS.

10. PROVIDE AN ANGLE OF BEND OF 90° ± 1° FOR TWO-SIDED REFLECTORS.

11. 25 FEET OF HALF POST SPACING IS REQUIRED ON APPROACH AND DEPARTURE ENDS OF QUARTER POST SPACING.

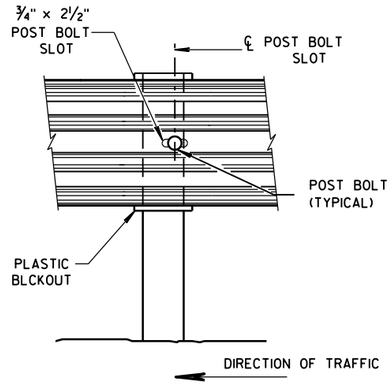
POST BOLTS ARE A 5/8" DIAMETER ASTM A307 GUARDRAIL BOLT. A POST BOLT REQUIRES 5/8" DIAMETER A563A DOUBLE RECESSED (DR) HEAVY HEX NUT AND 5/8" DIAMETER F844 FLAT WASHER. POST BOLTS MAY BE LONGER IF MULTIPLE BLOCKOUTS ARE BEING USED.

GUARD RAIL SPLICE BOLTS ARE A 5/8" DIAMETER ASTM A307 GUARDRAIL HEAD BOLT. A GUARDRAIL SPLICE BOLT REQUIRES 5/8" DIAMETER A563A DOUBLE RECESSED (DR) HEAVY HEX NUT.

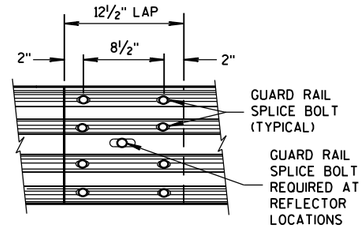


FRONT VIEW

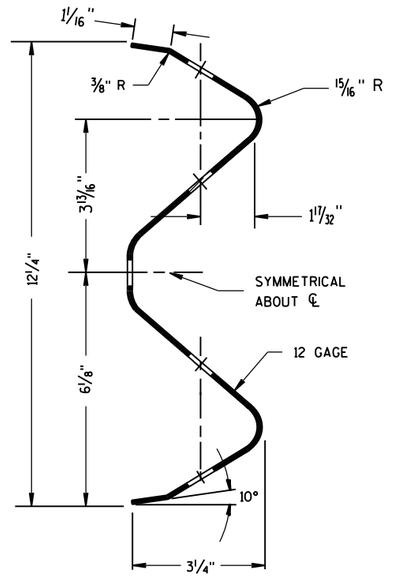
HALF POST SPACING (HS) AND HALF POST SPACING WITH LONGER POSTS (K)



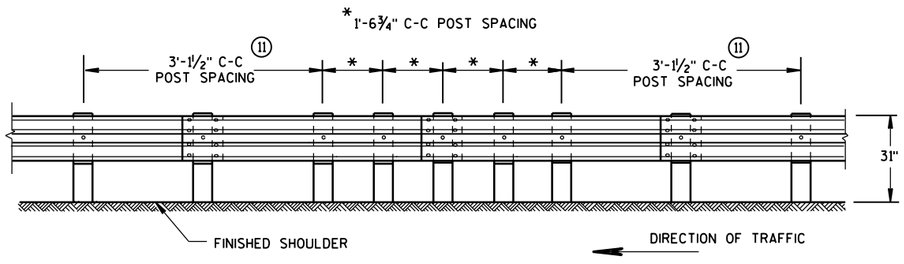
FRONT VIEW AT STEEL POST



FRONT VIEW
MID-SPAN BEAM SPLICE

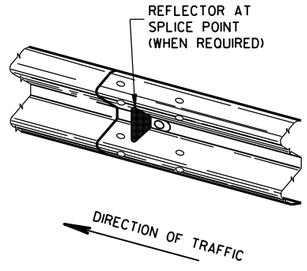


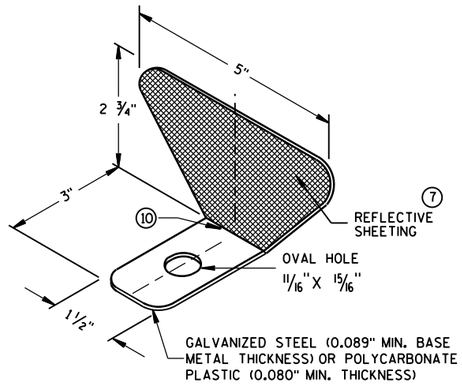
SECTION THRU W-BEAM RAIL



FRONT VIEW

QUARTER POST SPACING (QS)





ONE SIDED REFLECTOR DETAIL AND TYPICAL INSTALLATION (7)

REFLECTOR SPACING (8)

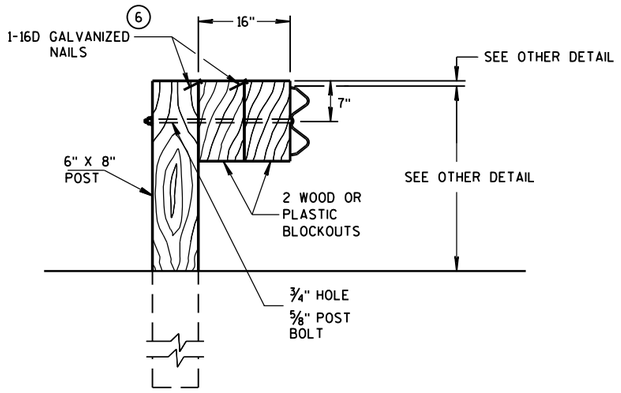
	BEAM GUARD LENGTH	REFLECTOR SPACING	NO. SURFACES REFLECTORIZED	MIN. NO. REFLECTORS
ONE WAY TRAFFIC	< 200' > 200'	50' C-C 100' C-C	1 1	3
TWO WAY TRAFFIC	< 200' > 200'	25' C-C 50' C-C	1 (9) 1	6
TWO WAY TRAFFIC	< 200' > 200'	50' C-C 100' C-C	2 2 (10)	3

MIDWEST GUARDRAIL SYSTEM
(MGS) GUARDRAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

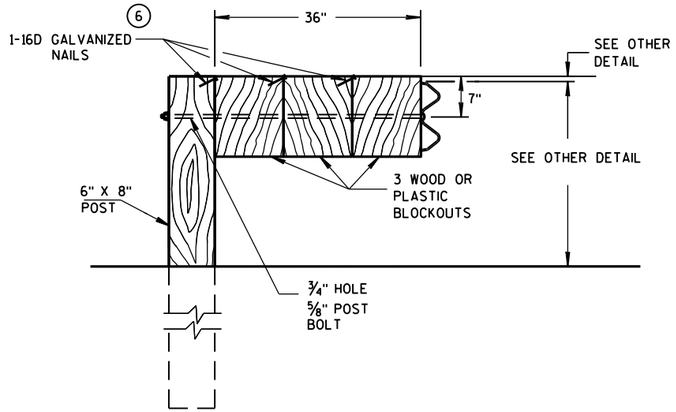
6

S.D.D. 14 B 42-4b



DETAIL FOR 16" BLOCKOUT DEPTH

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

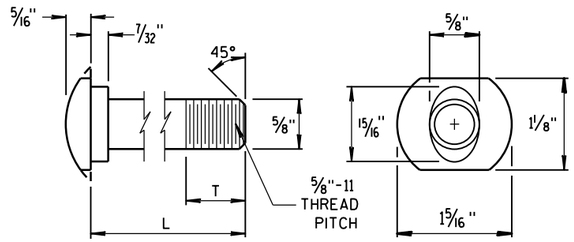


DETAIL FOR 36" BLOCKOUT DEPTH

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

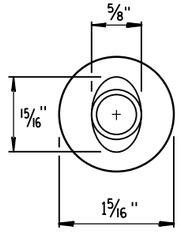
DO NOT USE 16" OR 36" BLOCKOUTS IF IT CAUSES THE POST TO BE DRIVEN BEYOND SHOULDER HINGE POINT OR CAUSES A FIXED OBJECT TO BE WITHIN THE DEFLECTION DISTANCE OF THE BARRIER.

NOTE: 1. ALL FILLETS SHALL HAVE A MINIMUM RADIUS OF 1/16".
2. IF THE BOLT EXTENDS MORE THAN 1/4" FROM THE NUT THE BOLT SHOULD BE TRIMMED BACK.

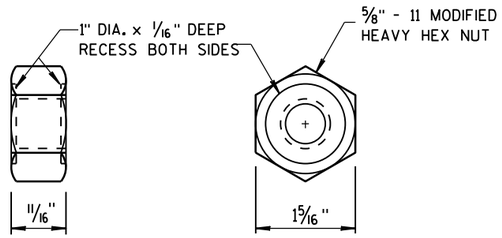


POST BOLT TABLE

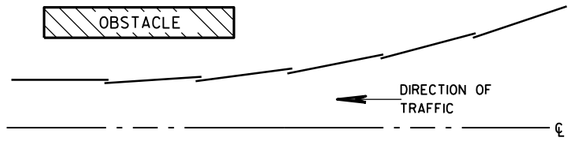
L	T (MIN.)
1 1/4"	1 1/8"
2"	1 3/4"
10"	4"
14"	4 1/16"
18"	4"
21"	4 1/16"
25"	4"



ALTERNATE BOLT HEAD

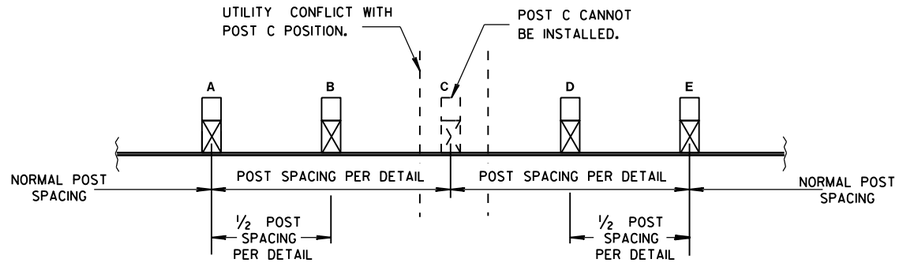


POST BOLT, SPLICE BOLT AND RECESS NUT

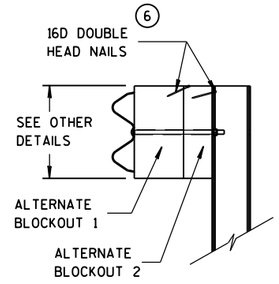


PLAN VIEW

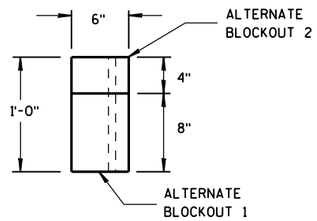
BEAM LAPPING DETAIL



POST DRIVING FOR CONTINUOUS UNDERGROUND OBSTRUCTION



SIDE VIEW



TOP VIEW

ALTERNATE WOOD BLOCKOUT DETAIL

MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June 2016 — DATE
/S/ Jerry H. Zogg — ROADWAY STANDARDS ENGINEER
FHWA

6

S.D.D. 14 B 42-4c

6

S.D.D. 14 B 42-4c

GENERAL NOTES

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

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

(C) DIFFERENT MANUFACTURES REQUIRE DIFFERENT PERFORATED W-BEAM RAIL END PANELS. SEE MANUFACTURES INFORMATION.

(D) THE TOP OF THE STEEL TUBE ON POST 1 AND POST 2 SHALL NOT BE MORE THAN 3" ABOVE THE FINISH GROUND ELEVATION.

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

(G) ½" DIAMETER X 3" LONG LAG BOLT AND WASHER.

(H) HARDWARE VARIES BETWEEN DIFFERENT MANUFACTURES. SEE MANUFACTURE'S DRAWING FOR INFORMATION.

(I) DIMENSIONS MAY VARY. SEE MANUFACTURE'S INFORMATION.

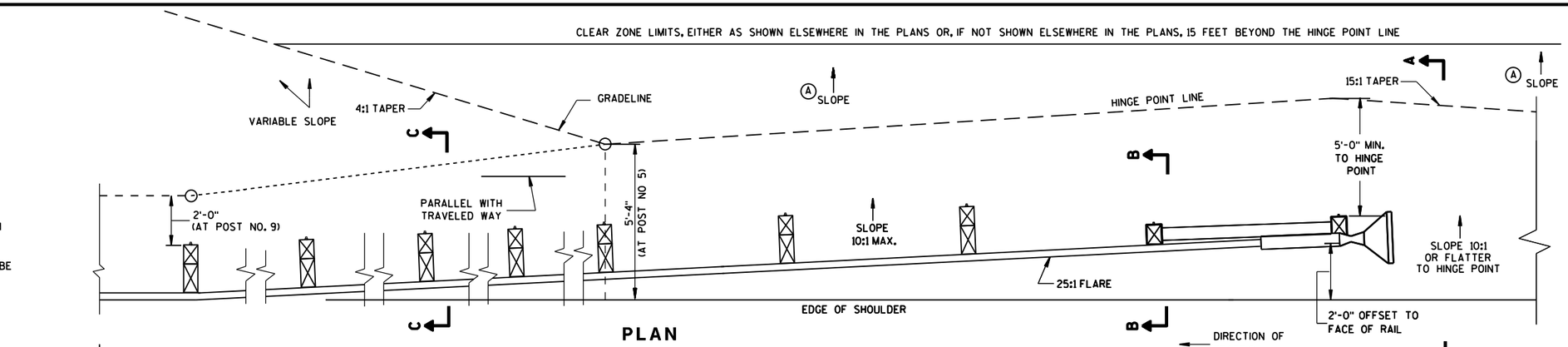
SEE SDD 14B42 FOR MORE INFORMATION.

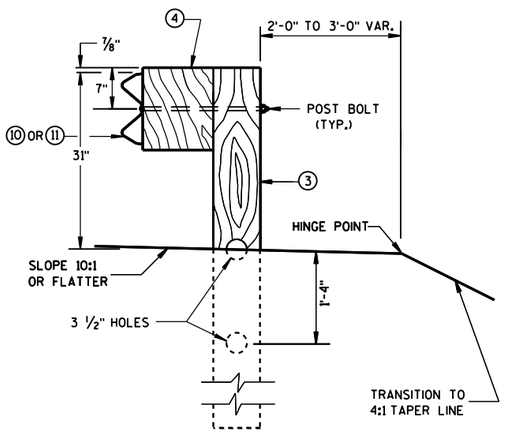
* DO NOT ATTACH BLOCKOUTS TO POSTS 1 AND 2.

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

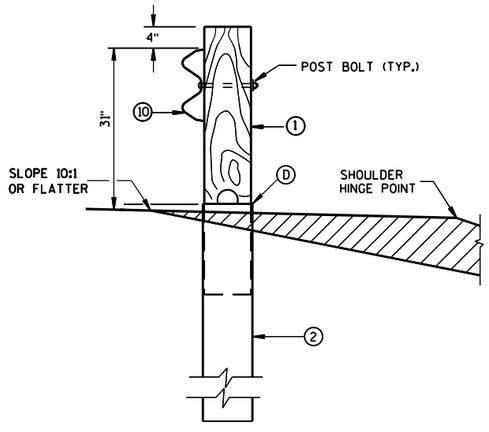
W-BEAM RAIL SPLICES ARE LOCATED AT POST NUMBER 3, AND BETWEEN POST 5 AND 6, BETWEEN POSTS 7 AND 8, AND MIDDLE OF THE SPAN AFTER POST 9.

THE CENTER OF THE UPPER 3½" DIAMETER HOLE ON POST NUMBER 3 THROUGH POST 9 IS TO BE FLUSH WITH THE GROUND LINE UP TO A MAXIMUM OF 2" ABOVE GROUND LINE.

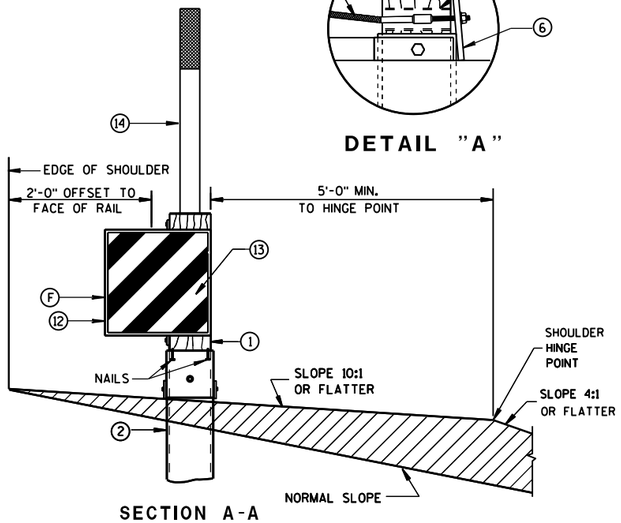




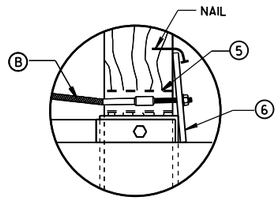
SECTION C-C
TYPICAL AT POST NOS. 3-9



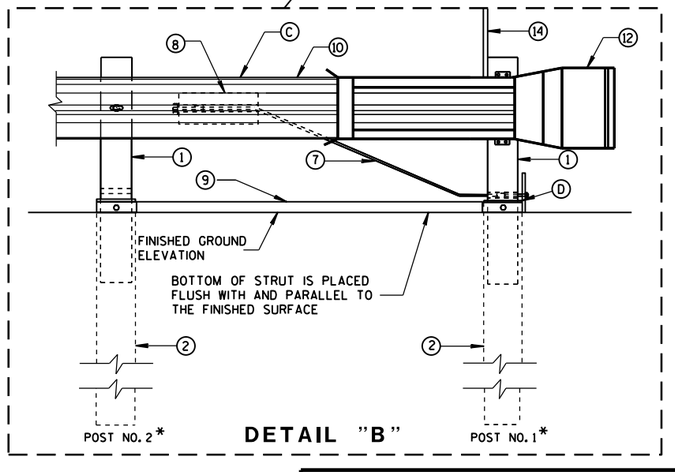
SECTION B-B
TYPICAL AT POST NO. 2*



SECTION A-A
TYPICAL AT POST NO. 1*



DETAIL "A"

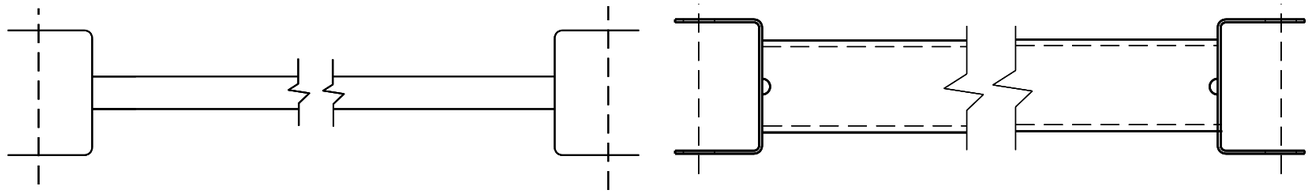


DETAIL "B"

MIDWEST GUARDRAIL SYSTEM
ENERGY ABSORBING TERMINAL
(MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPO

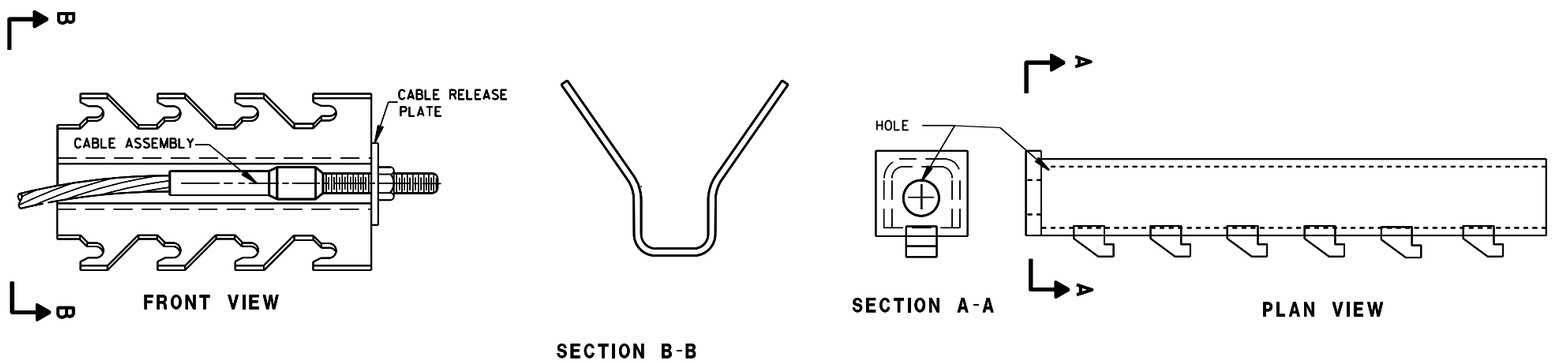
S.D.D. 14 B 44-2a



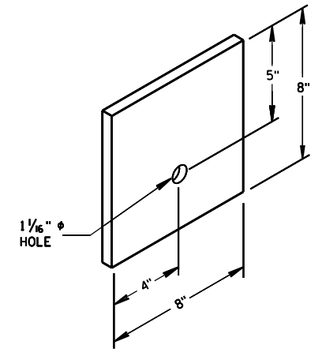
GENERIC GROUND STRUT (9) (H)

BILL OF MATERIALS

PART NO.	DESCRIPTION MATERIALS PROVIDED BY MGS EAT MANUFACTURER. SEE MANUFACTURER'S DETAILS FOR MORE INFORMATION.
(1)	WOOD BREAKAWAY POST
(2)	6" X 8" X 0.188", 6'-0" LONG FOUNDATION TUBE AT POSTS 1 AND 2
(3)	WOOD CRT
(4)	WOOD BLOCKOUT
(5)	PIPE SLEEVE
(6)	BEARING PLATE
(7)	BCT CABLE ASSEMBLY
(8)	ANCHOR CABLE BOX
(9)	GROUND STRUT
(10)	PERFORATED W-BEAM RAIL END PANEL, 12'-6" LONG.
(11)	STANDARD W-BEAM RAIL. MULTIPLE SECTIONS REQUIRED. SECTIONS VARY IN LENGTH.
(12)	END SECTION EAT
(13)	0.040" ALUMINUM SHEET WITH REFLECTIVE SHEETING TYPE F PER SECTION 637 OF THE STANDARD SPECIFICATIONS
(14)	EAT MARKER POST - YELLOW (SEE APPROVED PRODUCTS LIST)



GENERIC ANCHOR CABLE BOX (8) (H)

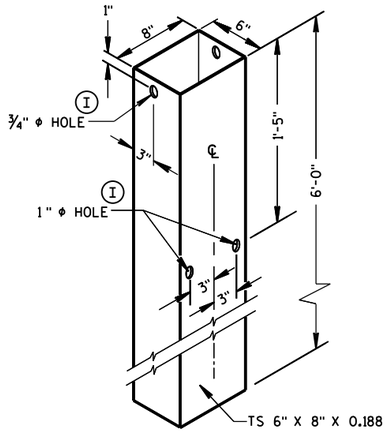


BEARING PLATE (6)

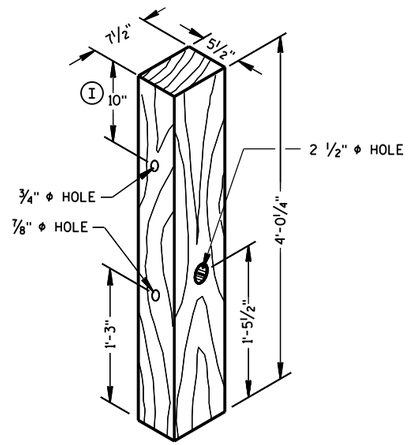
MIDWEST GUARDRAIL SYSTEM
ENERGY ABSORBING TERMINAL
(MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

6
S.D.D. 14 B 44-2b

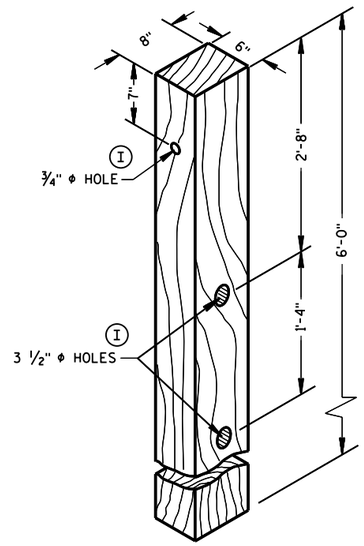


FOUNDATION TUBE (2)



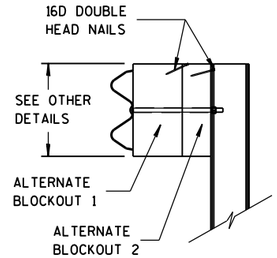
POSTS NUMBER 1 AND 2

WOOD BREAKAWAY POST (1)

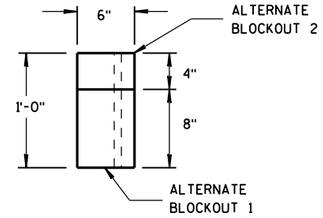


POSTS NUMBER 3-9

WOOD CRT POST (3)

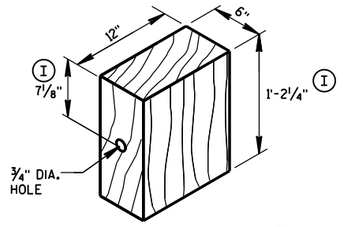


SIDE VIEW



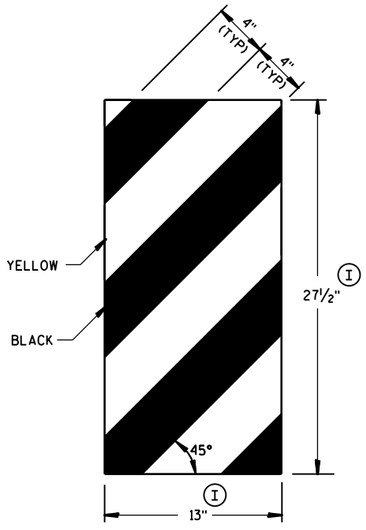
TOP VIEW

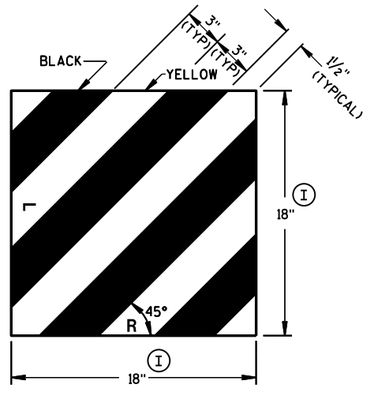
ALTERNATE WOOD BLOCKOUT DETAIL



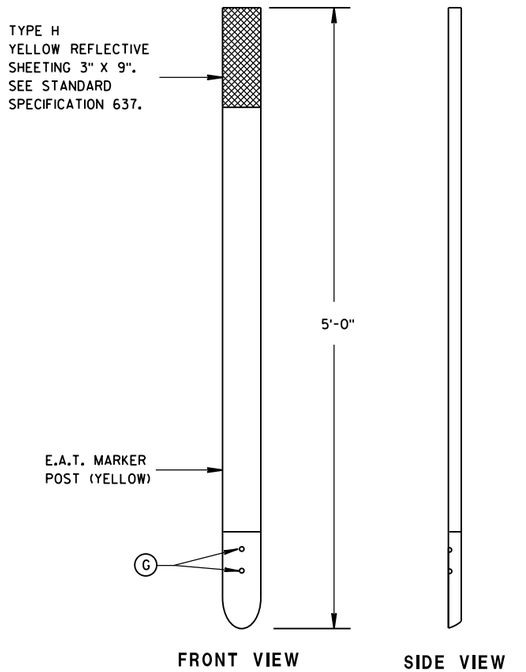
WOOD BLOCKOUT (4)

REQ'D. AT ALL POSTS EXCEPT POST NO'S 1 & 2





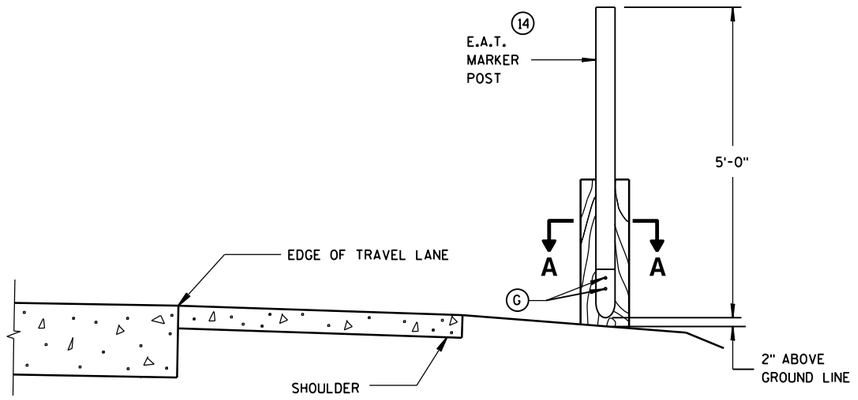
GENERIC REFLECTIVE SHEETING (13) (H)



FRONT VIEW

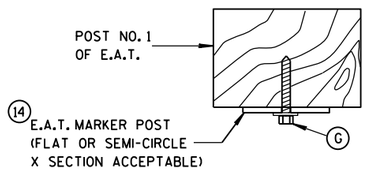
SIDE VIEW

E.A.T. MARKER POST (14)



TYPICAL INSTALLATION OF E.A.T. MARKER POST BACKSIDE OF POST NO. 1

(E.A.T. AND RAIL REMOVED FOR CLARITY)



SECTION A-A

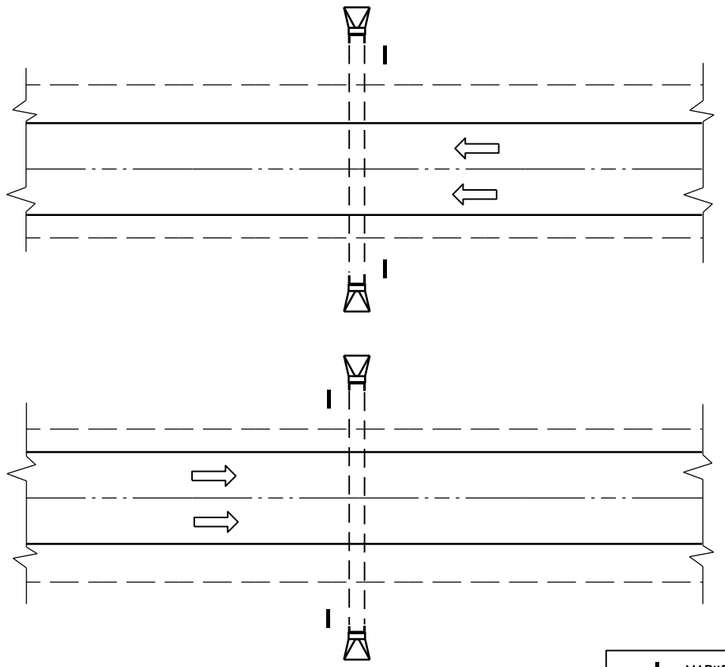
MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June 2014 — DATE
/S/ Jerry H. Zogg — ROADWAY STANDARDS ENGINEER
FHWA

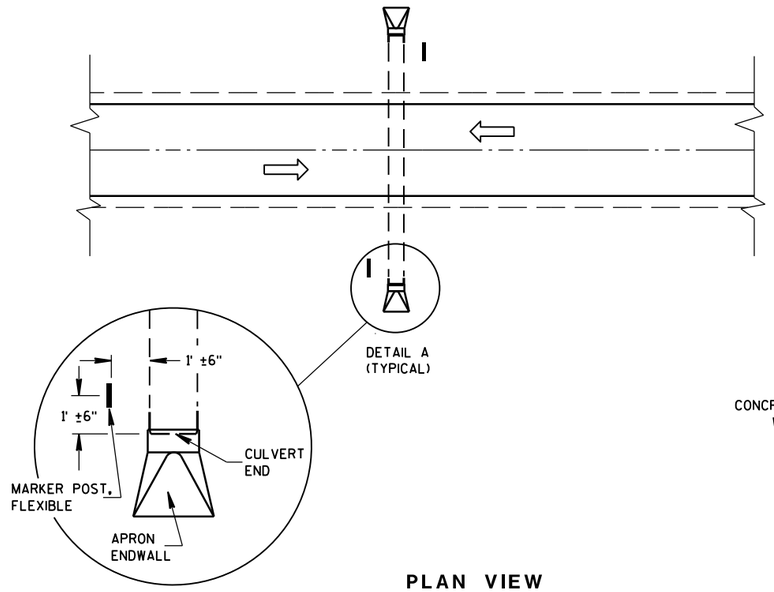
6

S.D.D. 14 B 44-2c



PLAN VIEW

DIVIDED HIGHWAY



DETAIL A
(TYPICAL)

PLAN VIEW

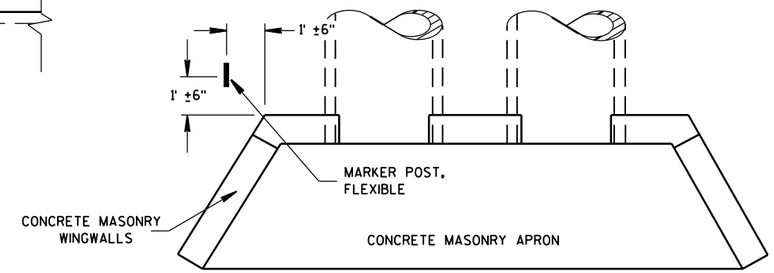
UNDIVIDED HIGHWAY

MARKER POST, FLEXIBLE

DIRECTION OF TRAFFIC FLOW

GENERAL NOTES

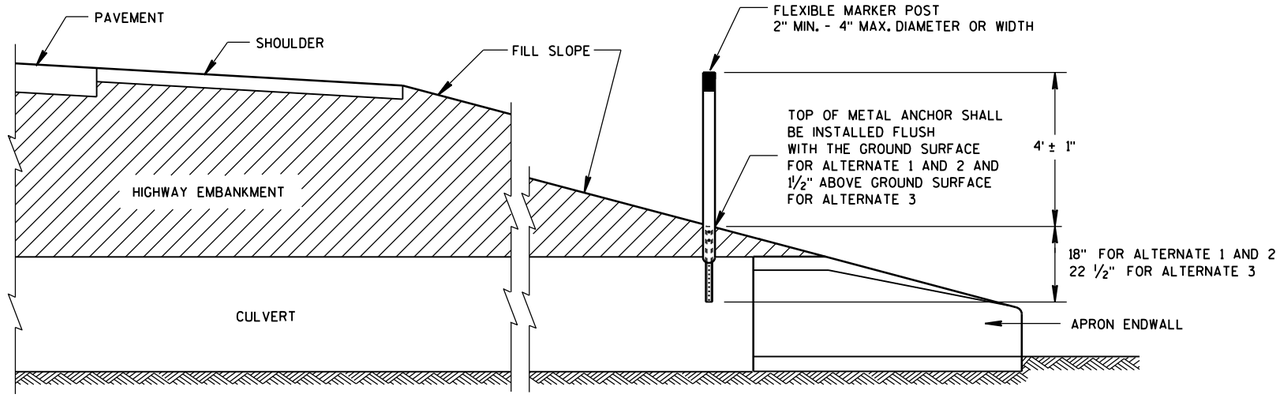
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.



PLAN VIEW

CONCRETE MASONRY ENDWALLS FOR CULVERT PIPE AND PIPE ARCH

FLEXIBLE MARKER POST LOCATION



CROSS SECTION

FLEXIBLE MARKER POST

FLEXIBLE MARKER POST
FOR CULVERT END

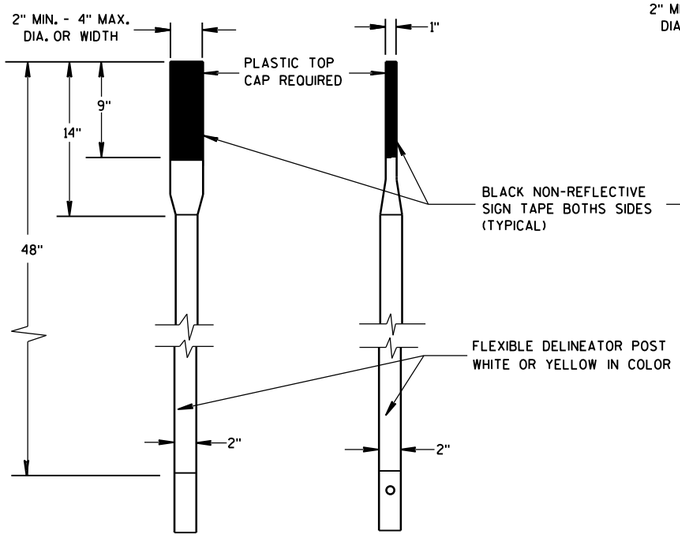
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

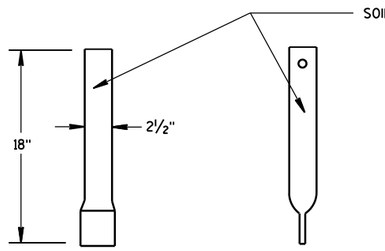
6

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

6

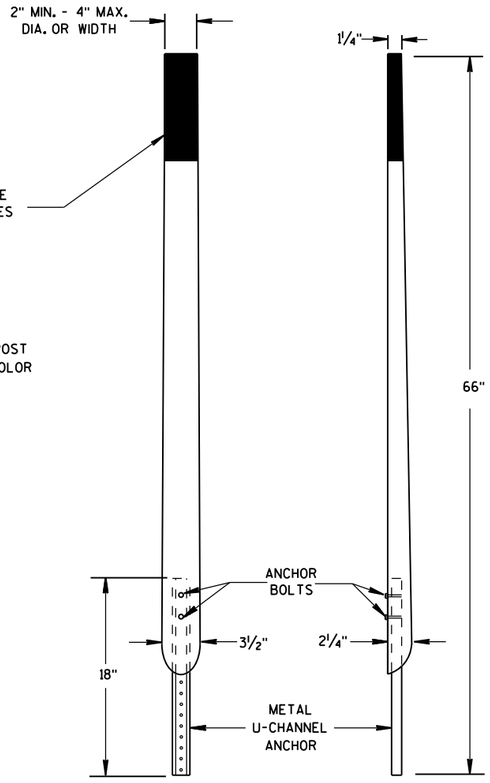
S.D.D. 15 A 3-2a





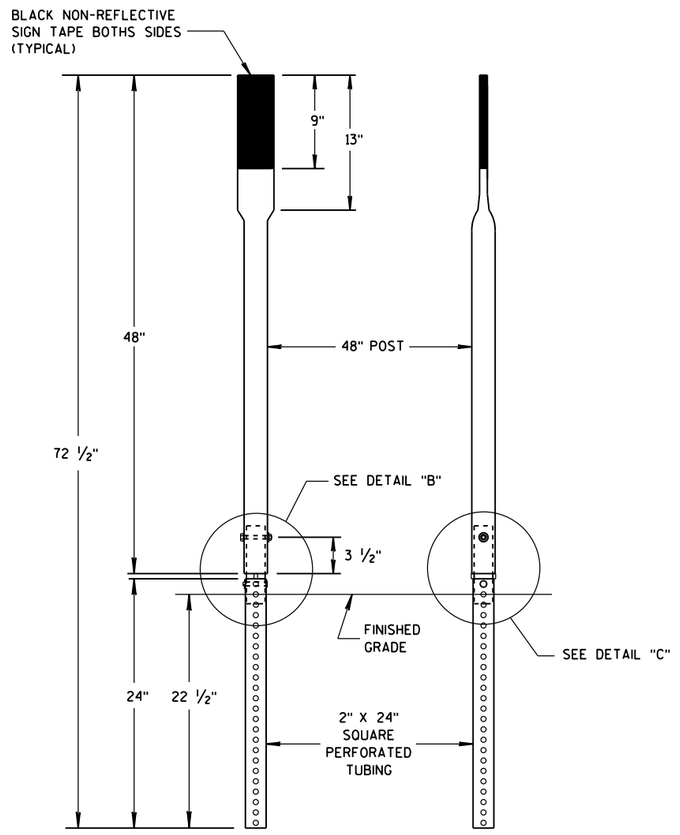
FRONT VIEW SIDE VIEW

ALTERNATE 1



FRONT VIEW SIDE VIEW

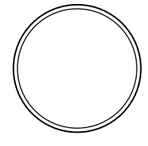
ALTERNATE 2



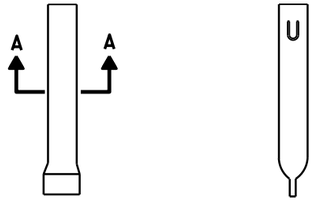
FRONT VIEW SIDE VIEW

ALTERNATE 3

FLEXIBLE MARKER POSTS

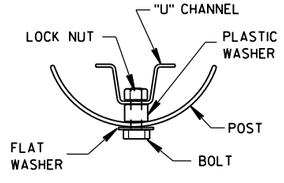


SECTION A-A

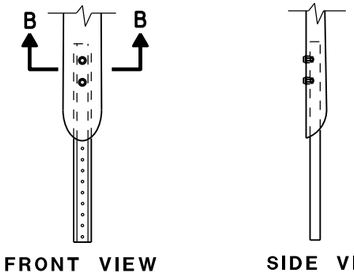


FRONT VIEW SIDE VIEW

ALTERNATE 1

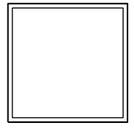


SECTION B-B

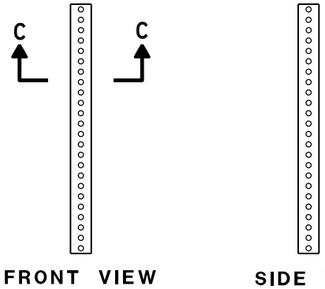


FRONT VIEW SIDE VIEW

ALTERNATE 2



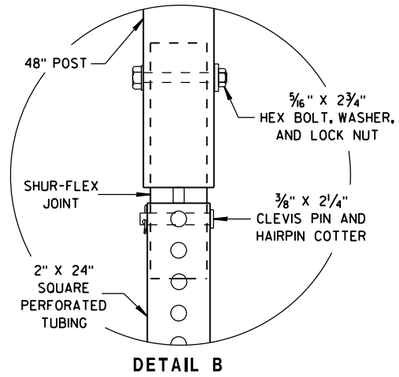
SECTION C-C



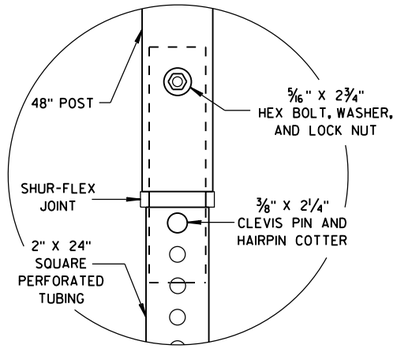
FRONT VIEW SIDE VIEW

ALTERNATE 3

FLEXIBLE MARKER POST ANCHORS



DETAIL B



DETAIL C

FLEXIBLE MARKER POST
FOR CULVERT END

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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

6

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

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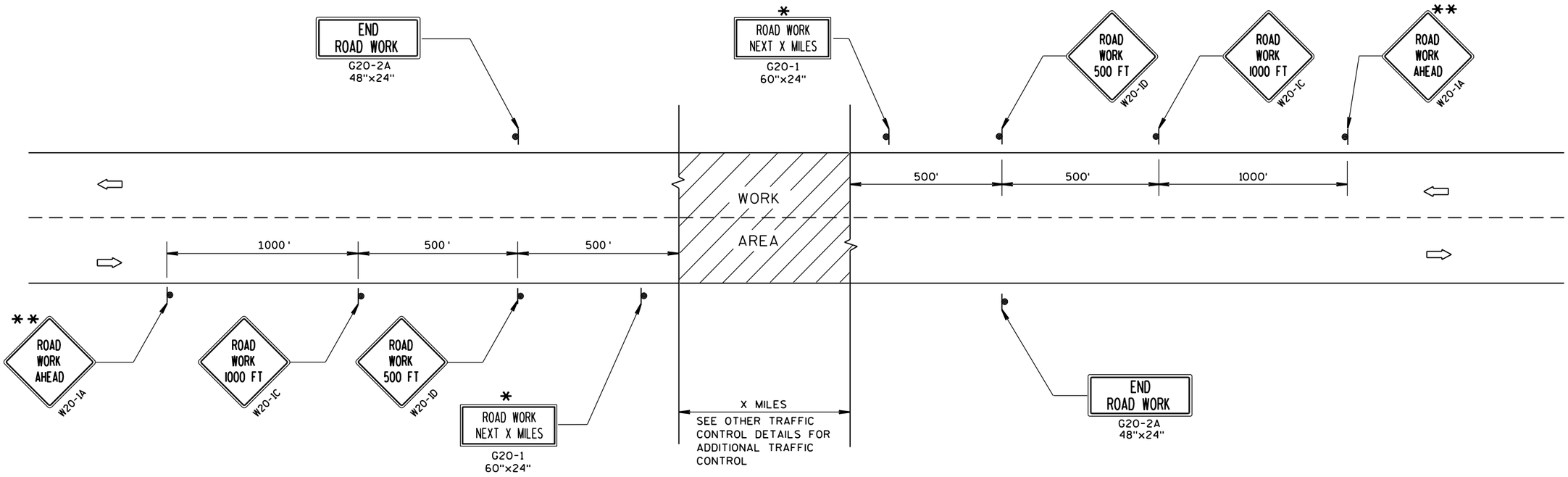
S.D.D. 15 A 3-2b



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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.

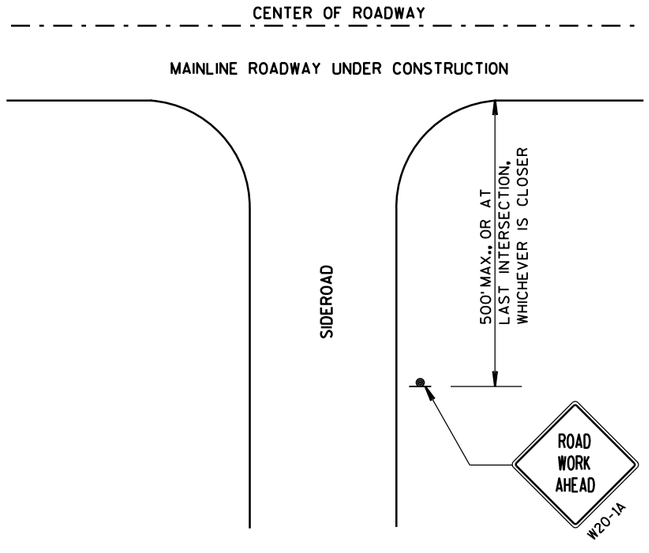
ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED.

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

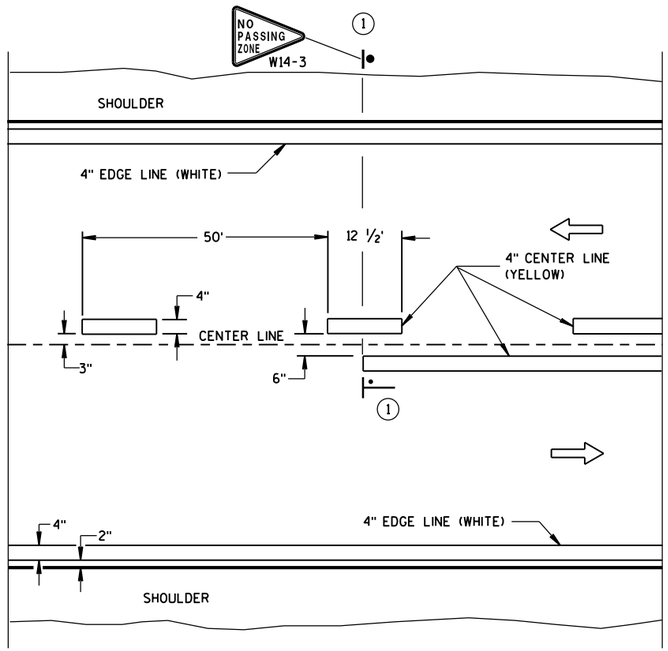
Sept. 2015 — DATE

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

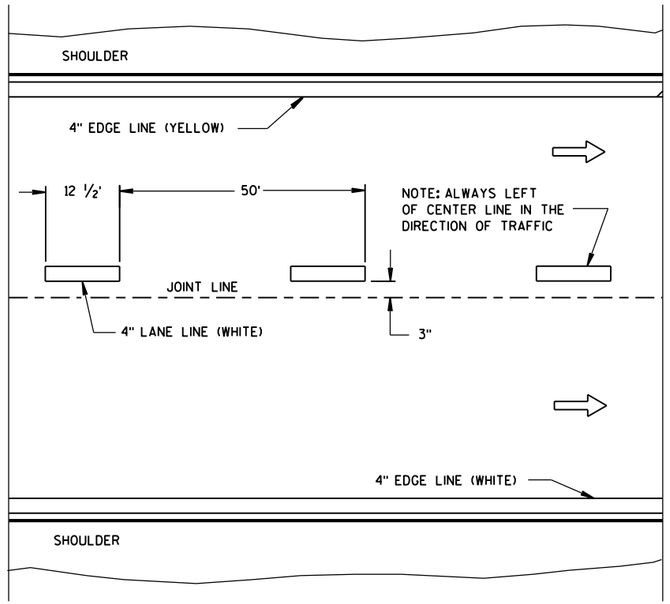
FHWA

S.D.D. 15 C 4-3

6
S.D.D. 15 C 4-3



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) NO PASSING ZONE W14-3 SIGN SHALL BE LOCATED WITHIN 50 FEET OF THE "T" MARKING.

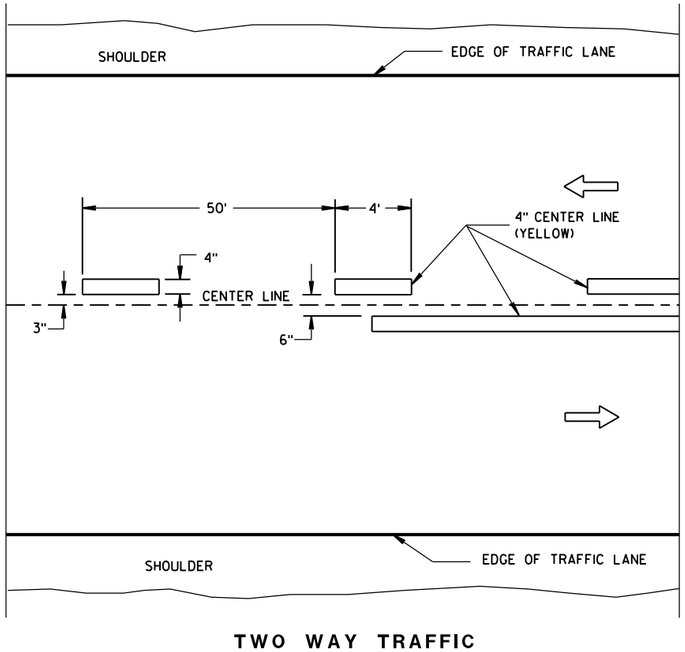
NOTE

ARROW SYMBOL (⇨) SHOWS DIRECTION OF TRAVEL

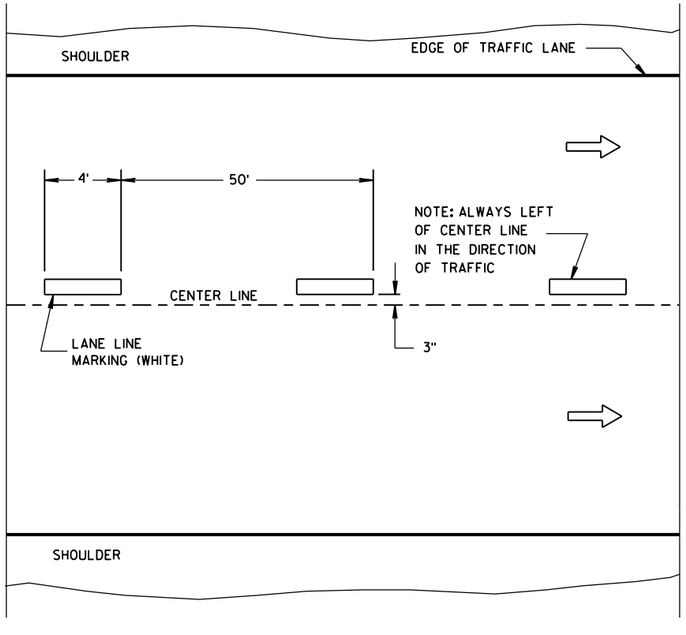
LEGEND

"T" MARKING

POST MOUNTED SIGN



TWO WAY TRAFFIC



ONE WAY TRAFFIC

TEMPORARY PAVEMENT MARKING

LONGITUDINAL MARKING (MAINLINE)	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED	
Sept., 2016	/S/ Matthew R. Rauch
DATE	STATE SIGNING AND MAR ENGINEER
FHWA	

6

S.D.D. 15 C 8-17a

6

S.D.D. 15 C 8-17a

LEGEND

SIGN ON PORTABLE OR PERMANENT SUPPORT

DIRECTION OF TRAFFIC

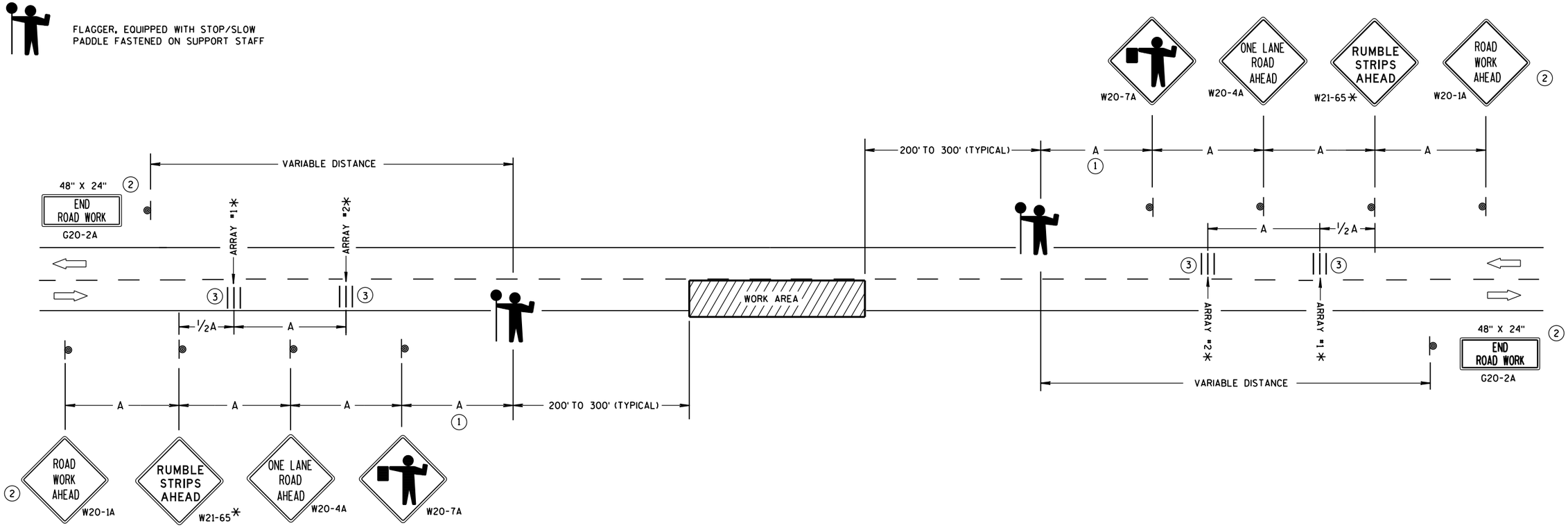
WORK AREA

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'

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

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

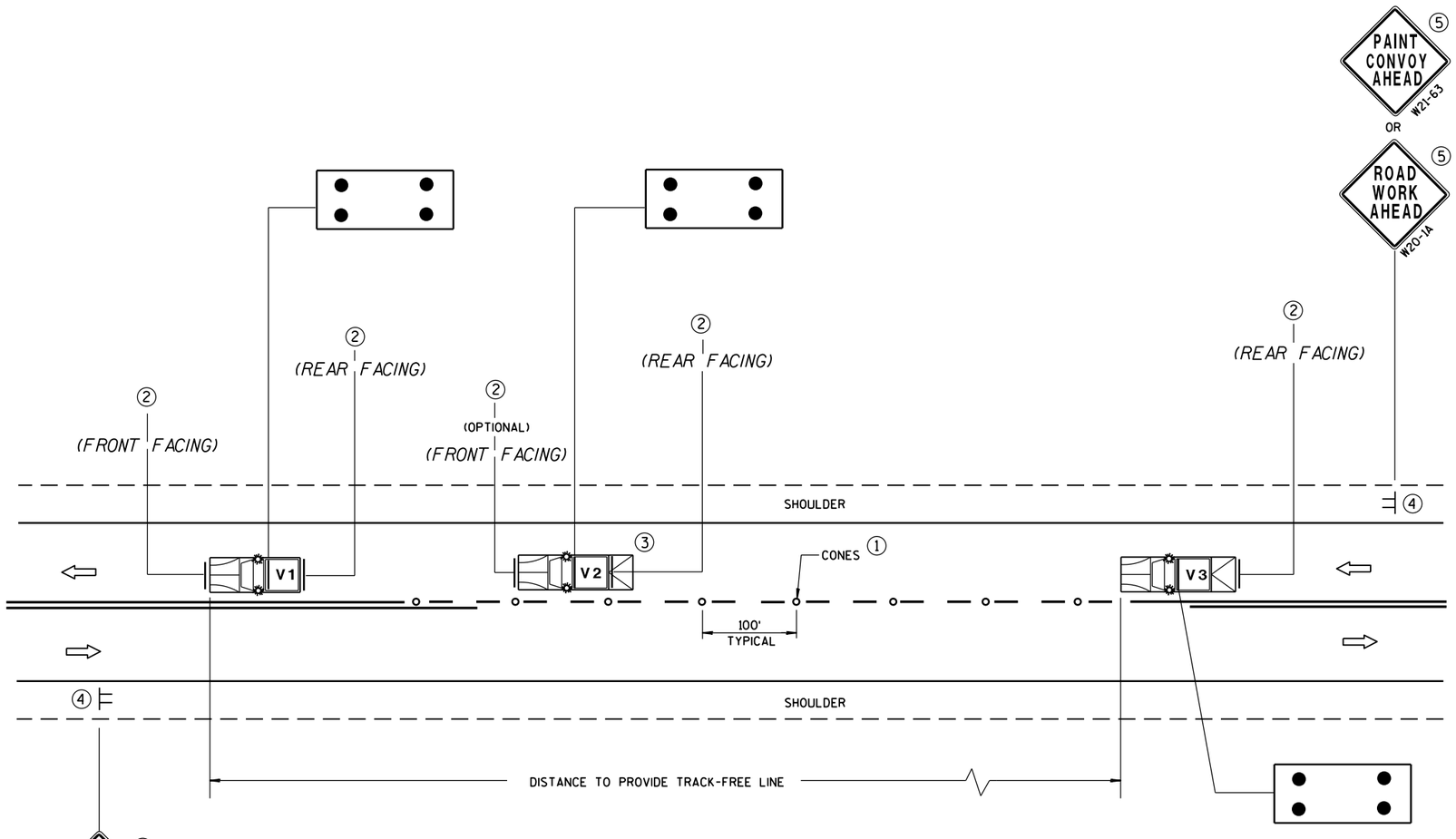
APPROVED
December, 2016 — /S/ Andrew Heldtke
DATE — WORK ZONE ENG
FHWA

6

S.D.D. 15 C 12-5

6

S.D.D. 15 C 12-5



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

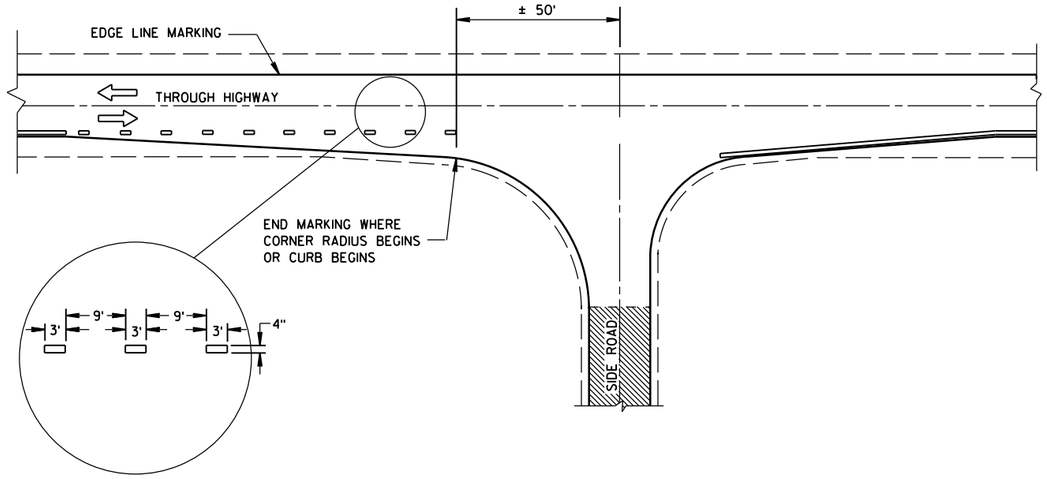
APPROVED
June 2016 — DATE
/S/ Peter Amakobe Atepe — STATEWIDE WORK ZON SAFETY ENGINE
FHWA

6

S.D.D. 15 C 19-4a

6

S.D.D. 15 C 19-4a



MINOR INTERSECTION WITHOUT CURBS

GENERAL NOTES

EDGE LINES SHALL BE OMITTED THROUGH INTERSECTIONS. EDGE LINES SHALL BE CONTINUED THROUGH DRIVEWAYS.

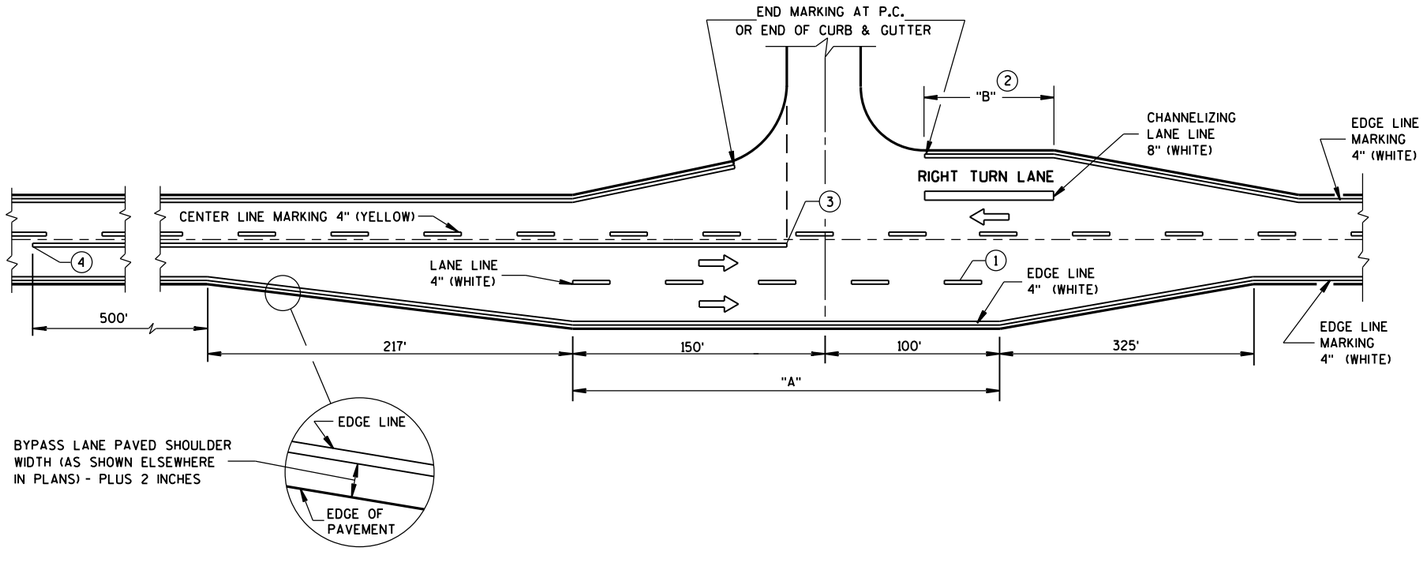
(1) WHEN DISTANCE "A" IS LESS THAN 250 FEET, OMIT LANE LINE.

(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 LANES)

PAVEMENT MARKING
(INTERSECTIONS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

6

S.D.D. 15 C 35-1a

GENERAL NOTES

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

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

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

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

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.

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

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

TABLE A

S \ W	SHOULDER TAPER LENGTH (FEET) 4	6	8	10	BUFFER SPACE (FEET)
30	20	30	40	50	200
35	30	45	55	70	250
40	40	55	75	90	305
45	60	90	120	150	360
50	70	100	135	170	425
55	75	110	150	185	495

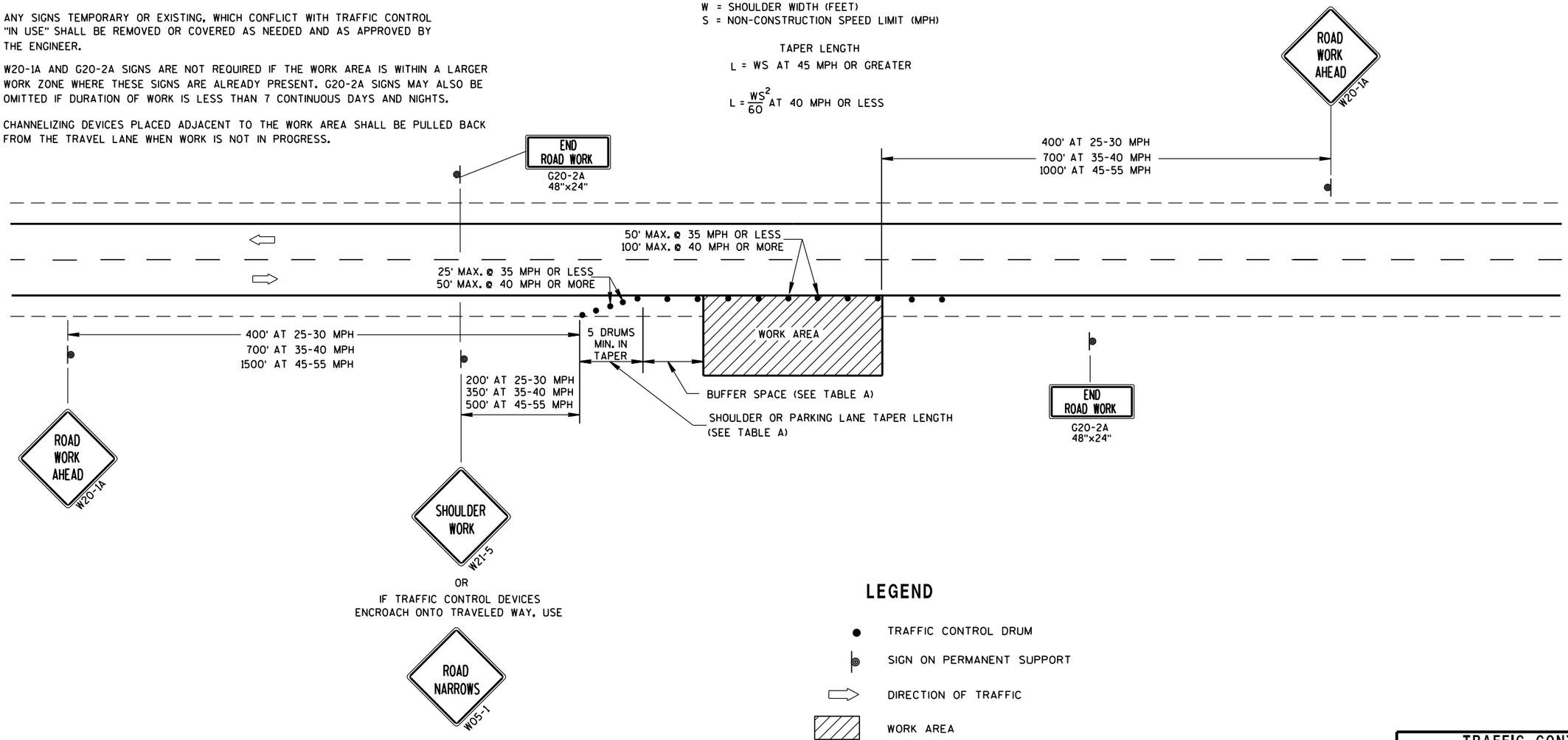
W = SHOULDER WIDTH (FEET)
S = NON-CONSTRUCTION SPEED LIMIT (MPH)

TAPER LENGTH

L = WS AT 45 MPH OR GREATER

$L = \frac{WS^2}{60}$ AT 40 MPH OR LESS

SHOULDER TAPER LENGTH = $\frac{1}{3}L$



LEGEND

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

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

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

July 14, 2015 — DATE

/S/ Peter Amakobe Atepe
STATEWIDE WORK ZO[illegible] SAFETY ENGI[illegible] FIC

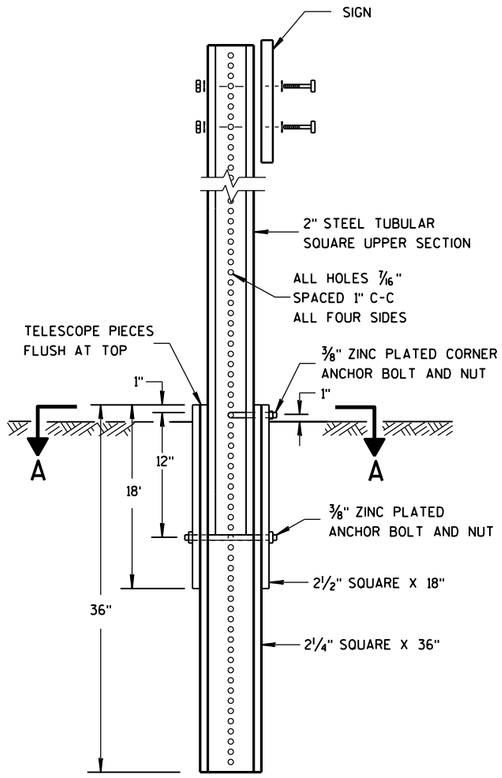
FHWA

6

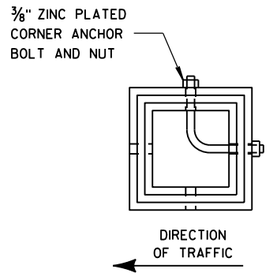
S.D.D. 15 D 28-3

6

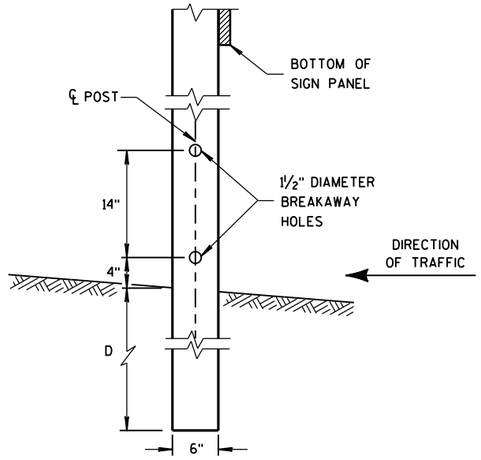
S.D.D. 15 D 28-3



DETAIL OF TUBULAR STEEL SIGN POST



SECTION A-A



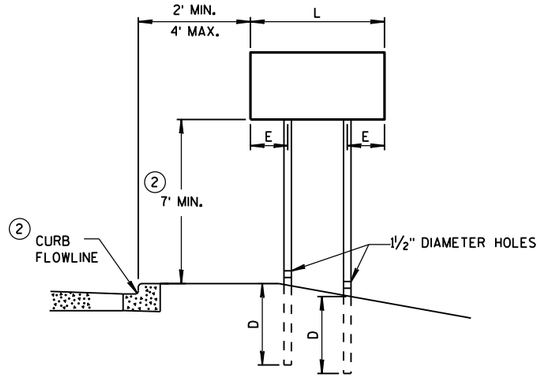
4"x6" WOOD POST MODIFICATION

GENERAL NOTES

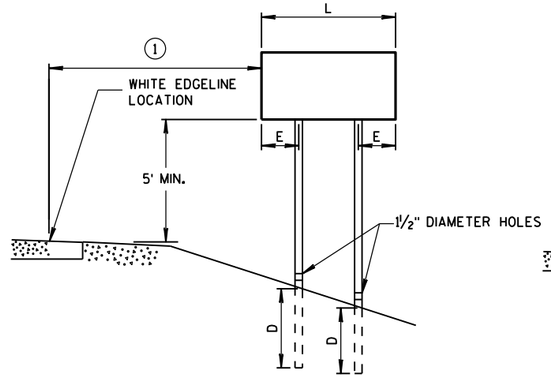
(1) 6 FEET FROM THE EDGE OF PAVEMENT (EDGE LINE LOCATION) UNLESS OTHERWISE DIRECTED BY THE PROJECT ENGINEER. LATERAL OFFSET SHOULD BE ADJUSTED TO AVOID THE DITCH FLOWLINE.

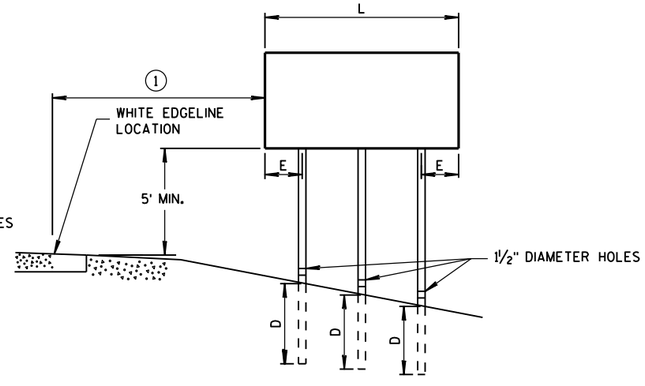
(2) THE EXISTENCE OF CURB AND GUTTER DOES NOT IN ITSELF MANDATE THE VERTICAL CLEARANCE ILLUSTRATED. THAT HEIGHT IS TYPICALLY MEASURED WHERE THERE IS SIDEWALK ADJACENT TO THE ROADWAY OR PARKING IS PERMITTED. IN THE ABSENCE OF SIDEWALK, VERTICAL CLEARANCE IS MEASURED FROM THE TOP OF THE CURB. IF NO SIDEWALK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

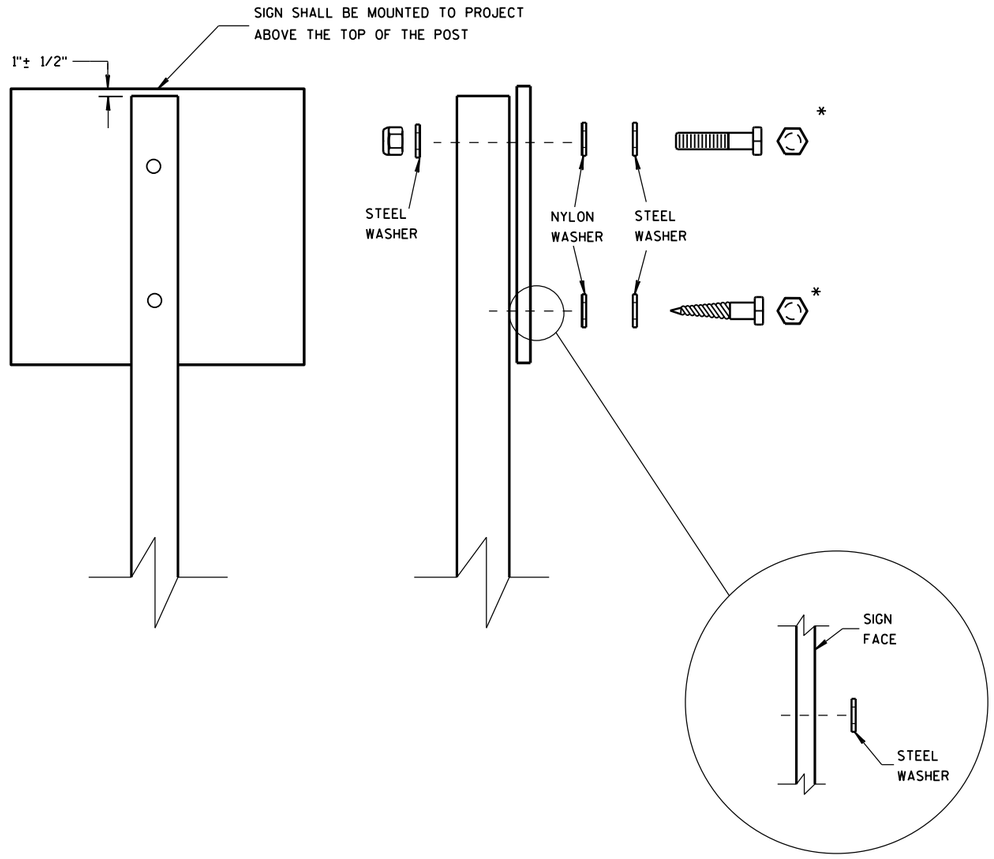
SEE NOTE (3)

TEMPORARY TRAFFIC CONTROL FIXED MESSAGE SIGNS

STATE OF WISCONSIN DEPARTMENT OF TRANSPOR

6

S.D.D. 15 D 38-1a



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 38-1b

S.D.D. 15 D 38-1b

ATTACHMENT OF SIGNS TO POSTS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

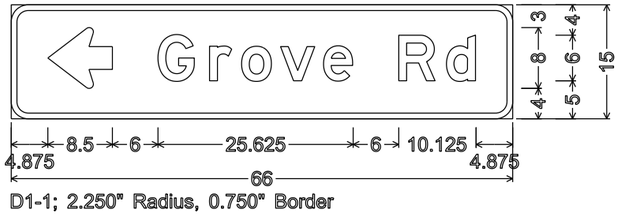
APPROVED

Feb. 2015 — DATE

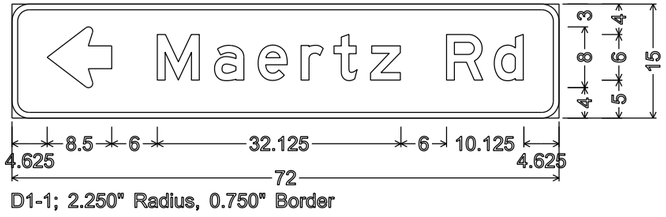
/S/ Travis Feltes — STATE TRAFFIC ENGINEER

FHWA

SIGN



D1-1; 2.250" Radius, 0.750" Border



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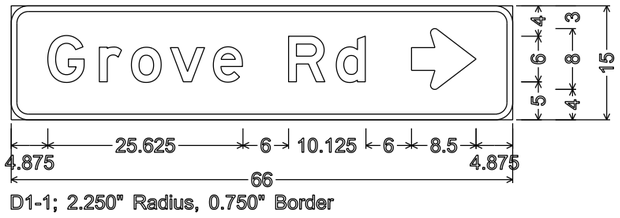
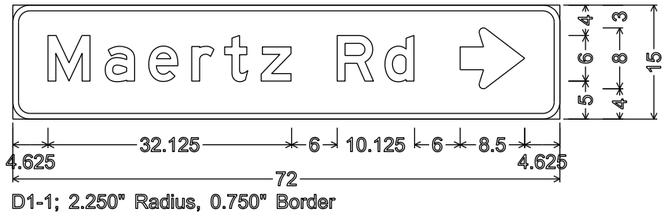


D1-1; 2.250" Radius, 0.750" Border



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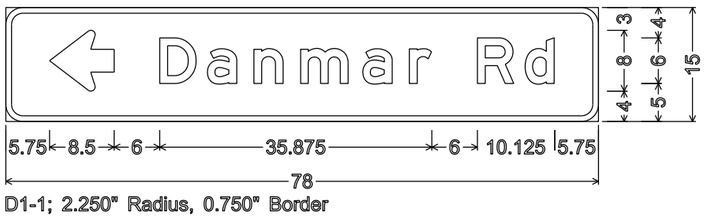
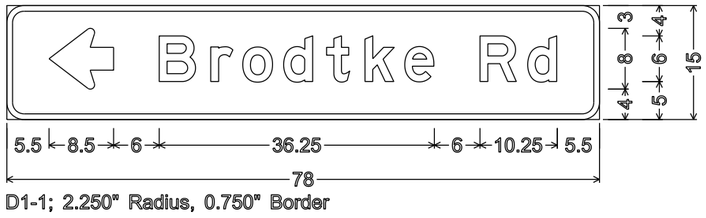
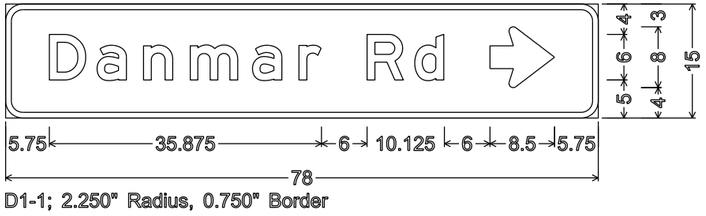


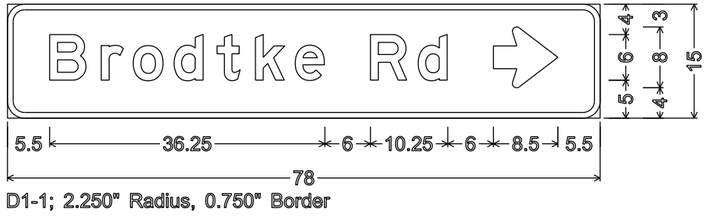
D1-1; 2.250" Radius, 0.750" Border



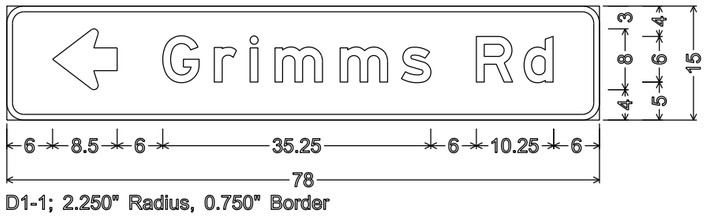
D1-1; 2.250" Radius, 0.750" Border



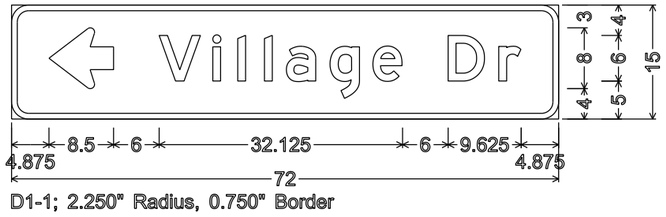
D1-1; 2.250" Radius, 0.750" Border



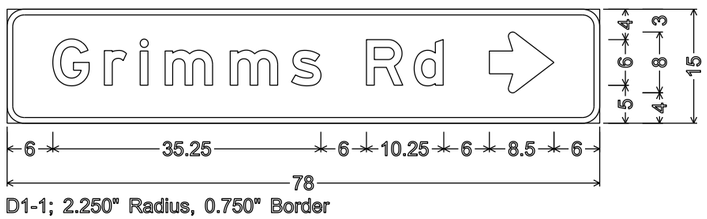
D1-1; 2.250" Radius, 0.750" Border



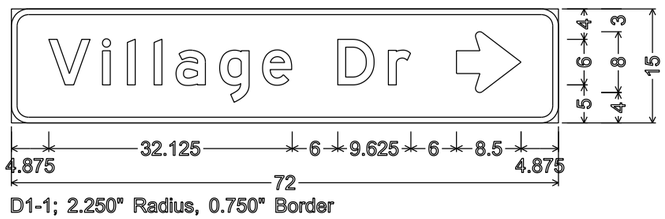
D1-1; 2.250" Radius, 0.750" Border



D1-1; 2.250" Radius, 0.750" Border



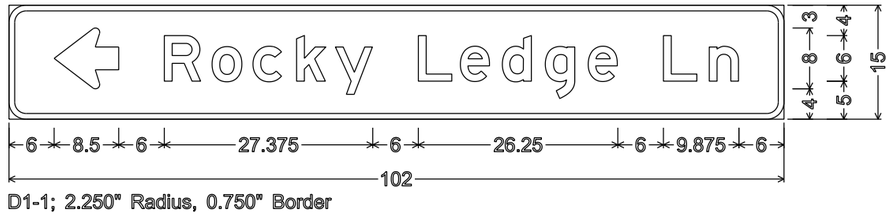
D1-1; 2.250" Radius, 0.750" Border



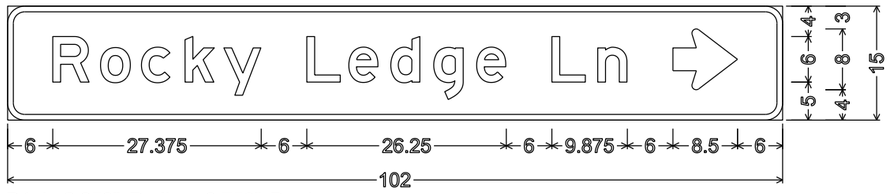
D1-1; 2.250" Radius, 0.750" Border

NOTES

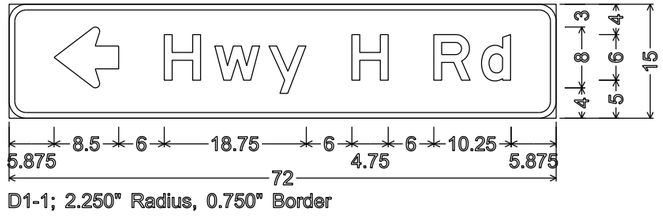
1. All Sign Type II - Type H Reflective
2. Color:
   Background - Green except as noted
   Message - White
3. Message Series - E except as noted



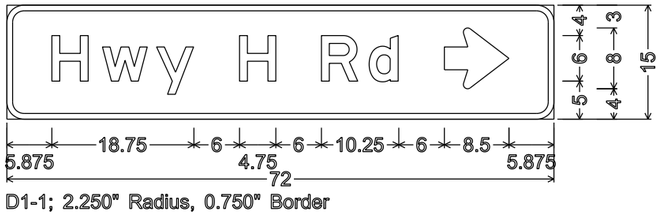
D1-1; 2.250" Radius, 0.750" Border



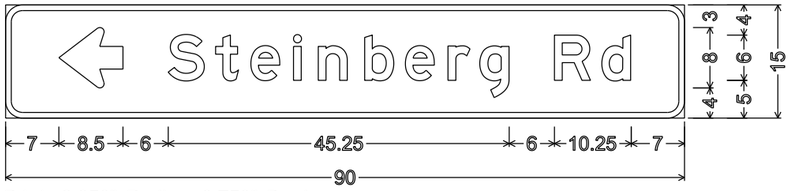
D1-1; 2.250" Radius, 0.750" Border



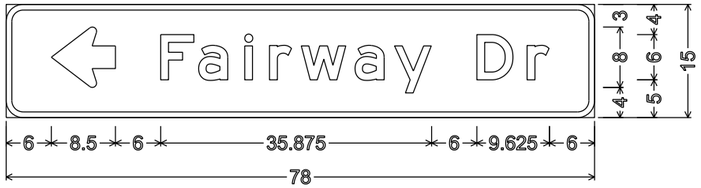
D1-1; 2.250" Radius, 0.750" Border



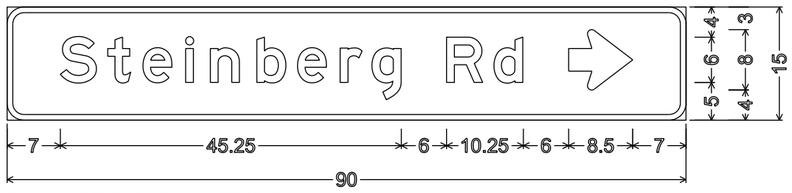
D1-1; 2.250" Radius, 0.750" Border



D1-1; 2.250" Radius, 0.750" Border



D1-1; 2.250" Radius, 0.750" Border



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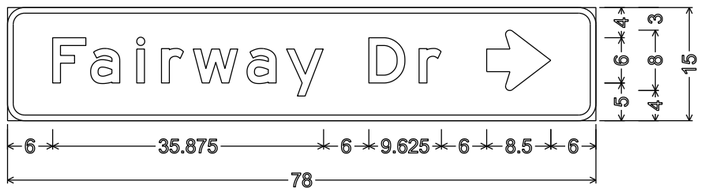
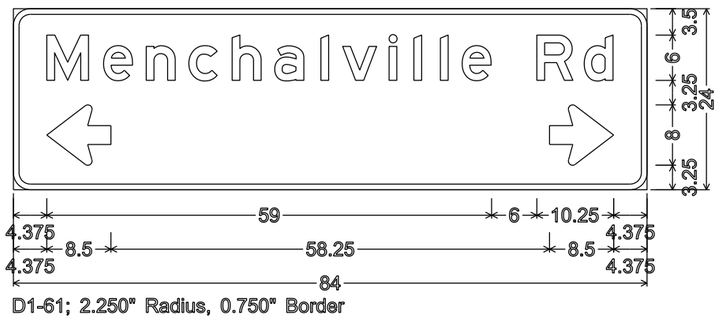
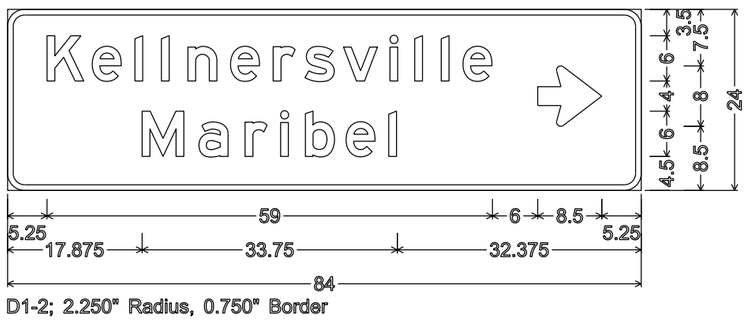


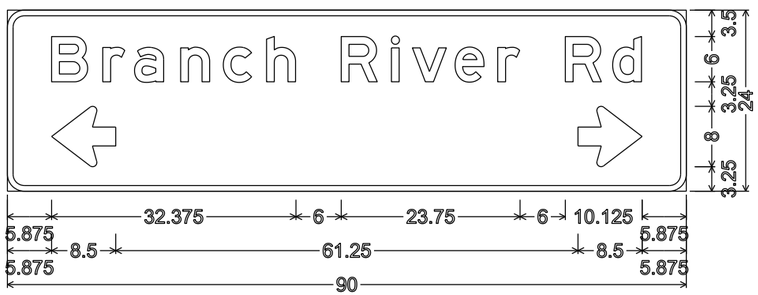
D1-1; 2.250" Radius, 0.750" Border



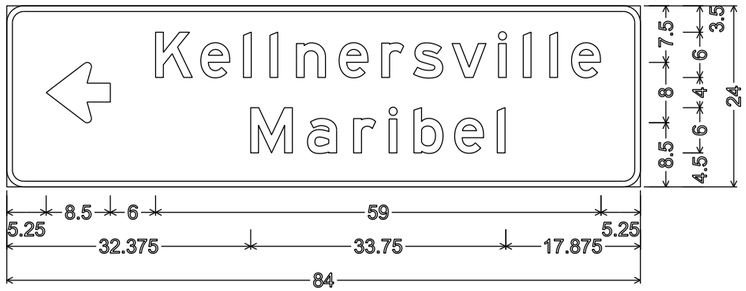
D1-61; 2.250" Radius, 0.750" Border



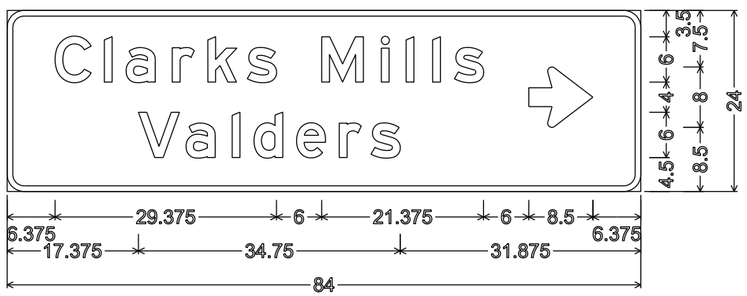
D1-2; 2.250" Radius, 0.750" Border



D1-61; 2.250" Radius, 0.750" Border



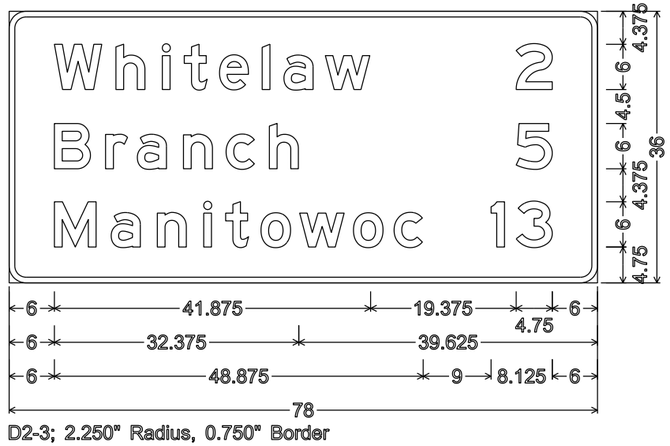
D1-2; 2.250" Radius, 0.750" Border



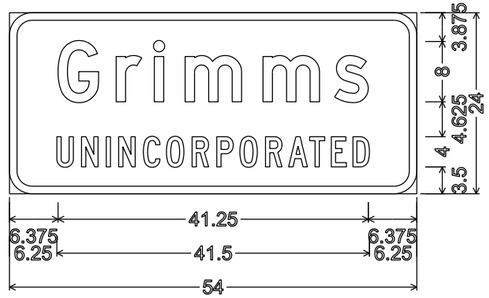
D1-2; 2.250" Radius, 0.750" Border

NOTES

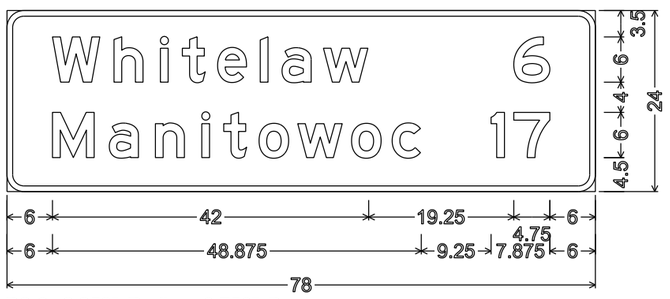
1. All Sign Type II - Type H Reflective
2. Color:
   Background - Green except as noted
   Message - White
3. Message Series - E except as noted



D2-3; 2.250" Radius, 0.750" Border



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

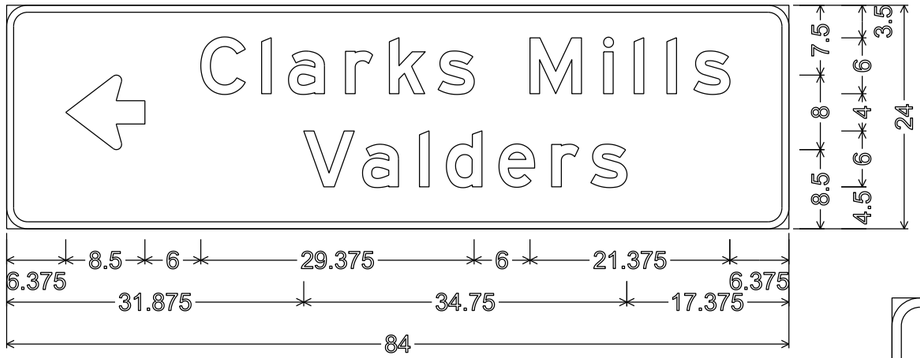


D2-2; 2.250" Radius, 0.750" Border

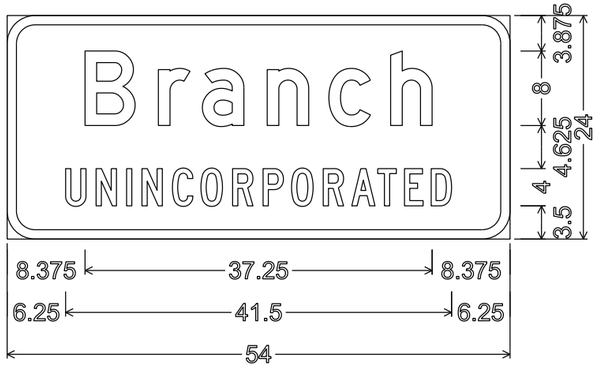
PROJECT NO: 1500-66-71	HWY: USH 10	COUNTY: MANITOWOC	PERMANENT SIGNING	SHEET NO: E

NOTES

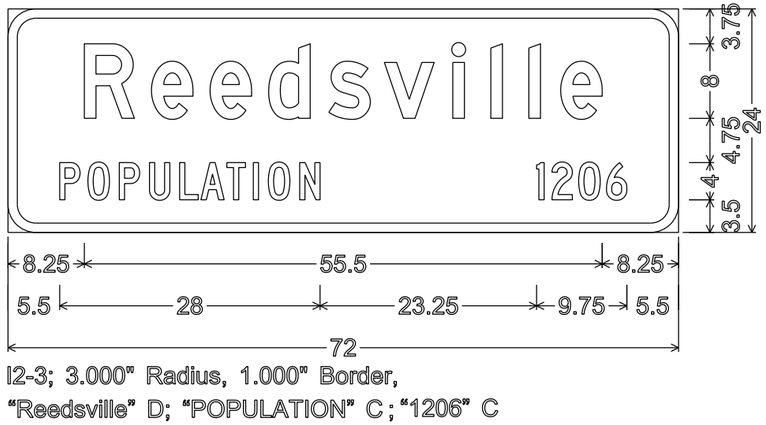
1. All Sign Type II - Type H Reflective
2. Color:
   Background - Green except as noted
   Message - White
3. Message Series - E except as noted



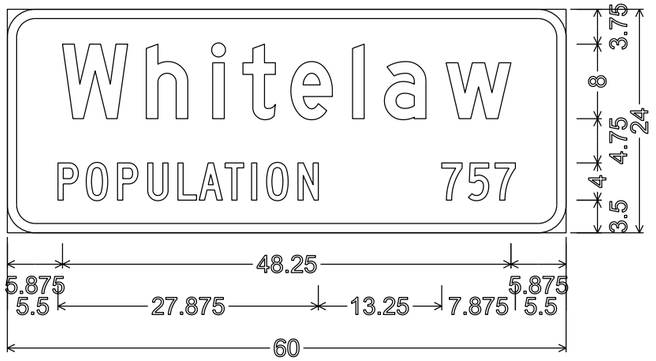
D1-2; 2.250" Radius, 0.750" Border



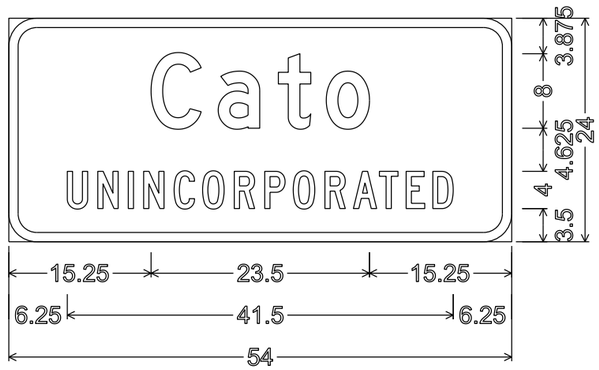
I2-3;
3.000" Radius, 1.000" Border,
"Branch" D; "UNINCORPORATED" C



I2-3; 3.000" Radius, 1.000" Border,
"Reedsville" D; "POPULATION" C; "1206" C



I2-3;
3.000" Radius, 1.000" Border,
"Whitelaw" D; "POPULATION" C; "757" C



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

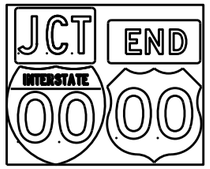
7

7

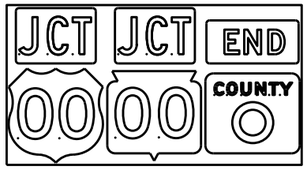
PROJECT NO: 1500-66-71	HWY: USH 10	COUNTY: MANITOWOC	PERMANENT SIGNING	SHEET NO: E

TYPICAL ASSEMBLIES

J1-1

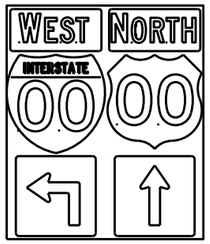


J1-2

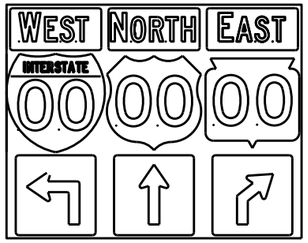


J1-3

J2-1



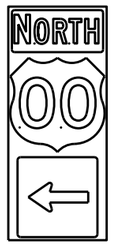
J2-2



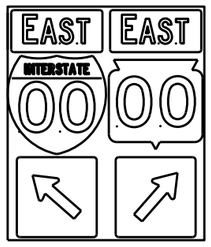
J2-3

JV

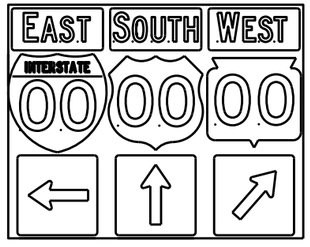
(Typical Vertical J-Assembly
See Note 10 and 11)



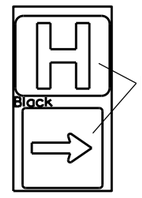
J3-1



J3-2



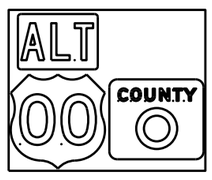
J3-3



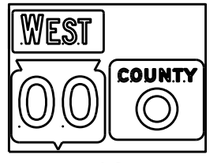
Blue Background

JH-1

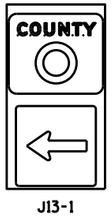
J4-1



J4-2



J4-2



J13-1

J12-1

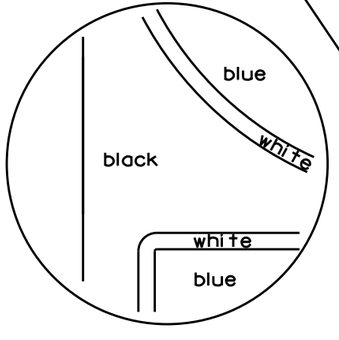
J32-1

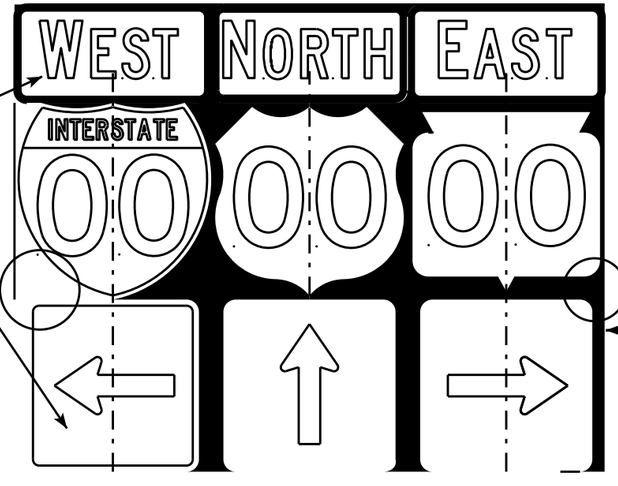
J33-1

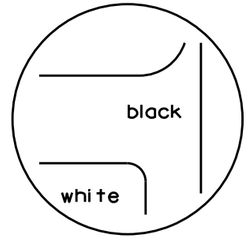
J23-1

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

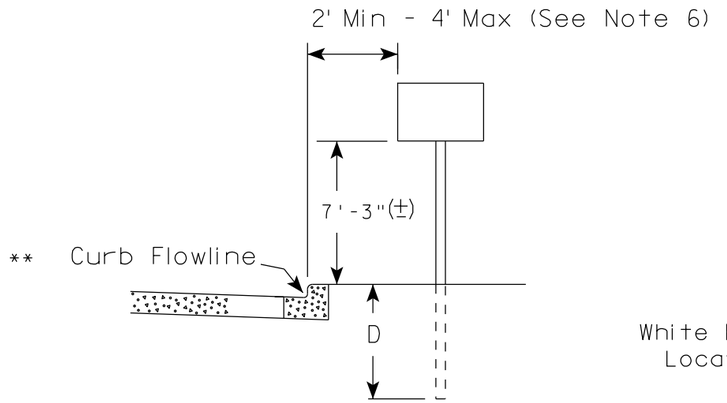
APPROVED Matthew R Rauch
for State Traffic Engineer

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

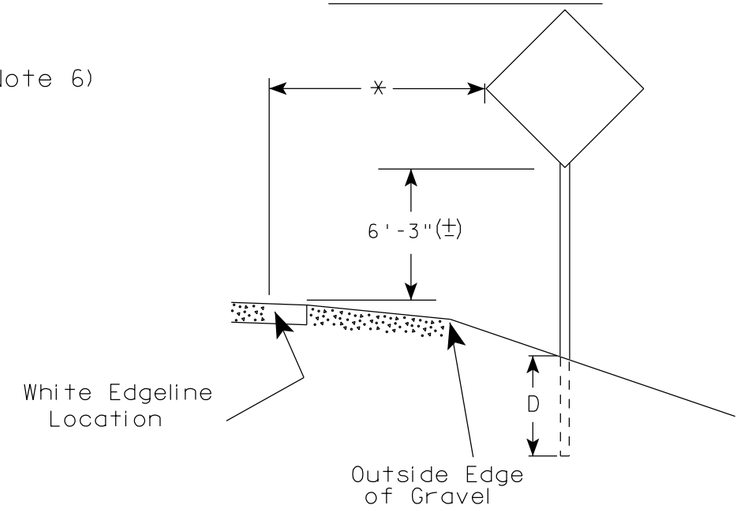
PROJECT NO: SHEET NO: E

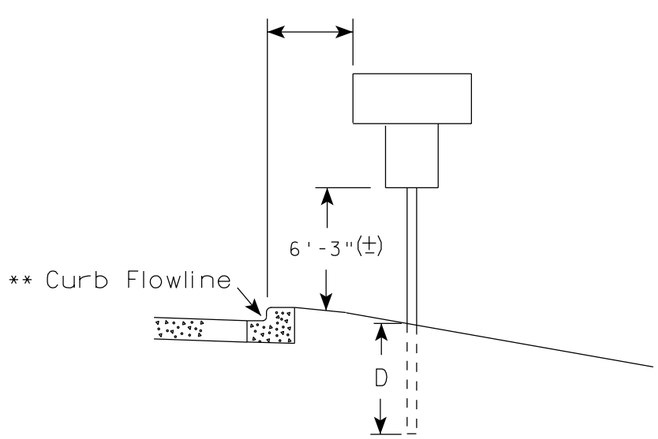
FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A21S.DGN PLOT DATE : 06-FEB-2014 14:10 PLOT BY : mscsja PLOT NAME :
WISDOT/CADDS SHEET 42

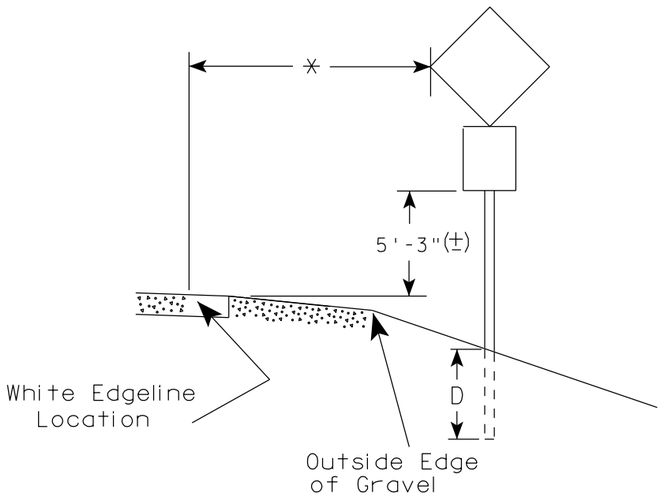
URBAN AREA



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.

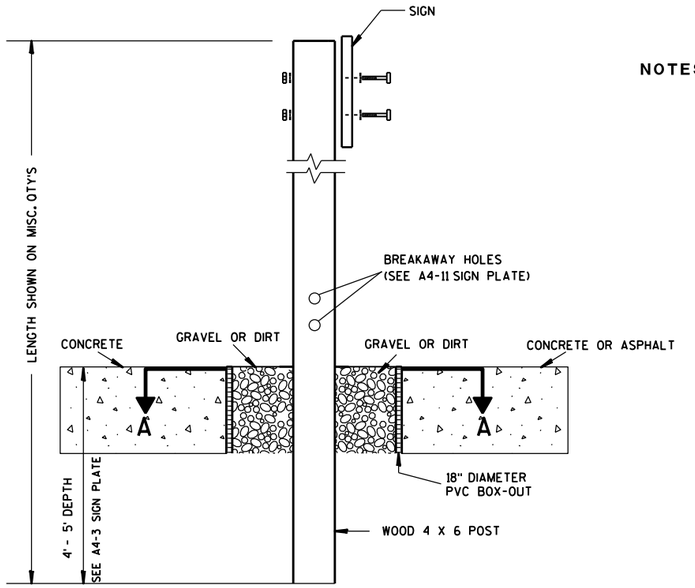
TYPICAL INSTALLATION OF PERMANENT TYPE II SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

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

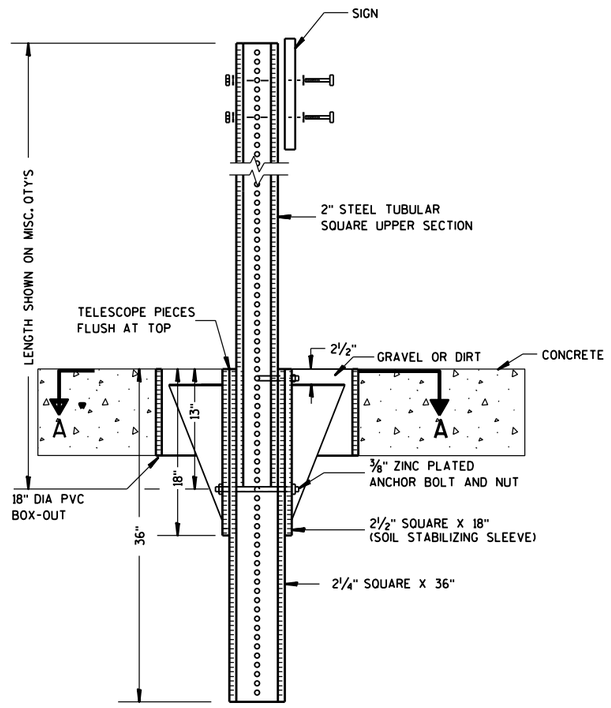
PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E



ELEVATION VIEW

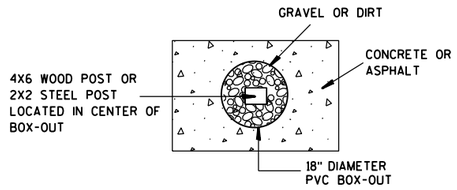
DETAIL OF WOOD 4 X 6 SIGN POST IN BOX-OUT

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



ELEVATION VIEW

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



PLAN VIEW

FOR NEW CONCRETE/ASPHALT INSTALLATIONS

SIGN POST BOX-OUTS A4-3B

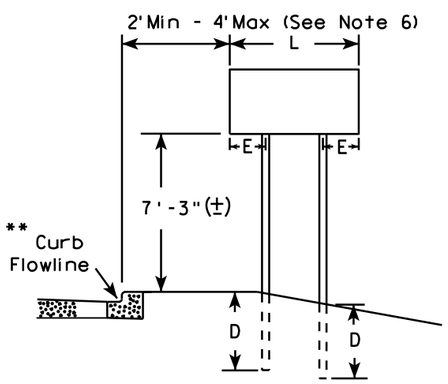
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

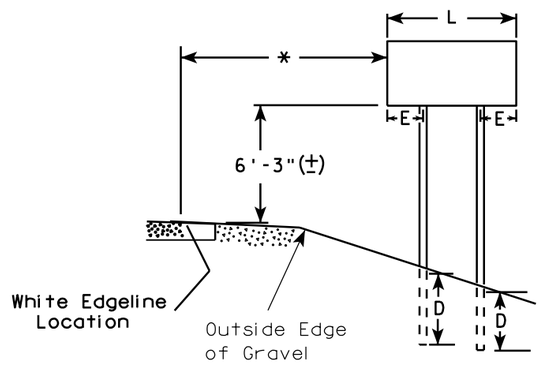
DATE 1/27/14 PLATE NO. A4-3B.1

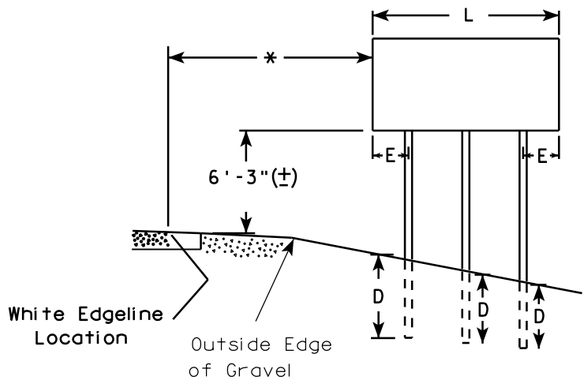
PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

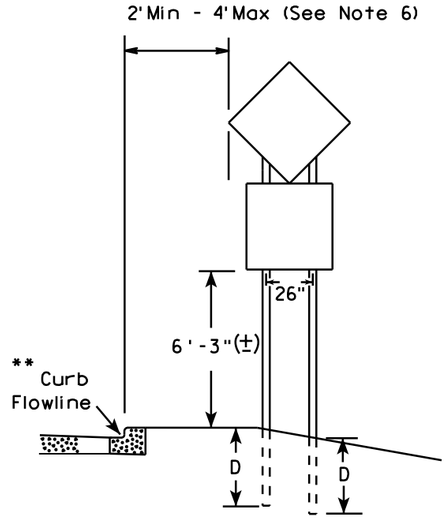
URBAN AREA



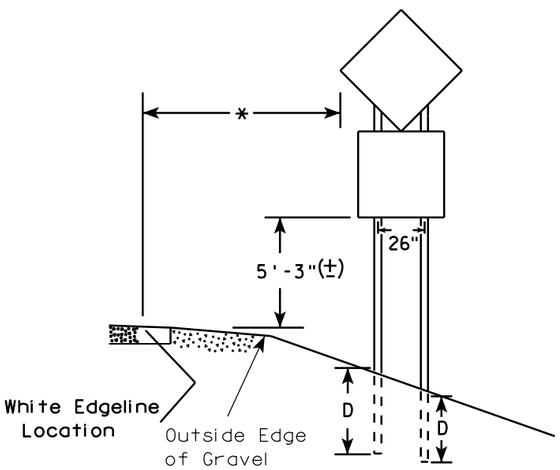
RURAL AREA (See Note 3)







48" DIAMOND WARNING SIGN



48" DIAMOND WARNING SIGN

***	SIGN SHAPE OTHER THAN DIAMOND (TWO POSTS REQUIRED)	
	L	E
	Greater than 48" Less than 60"	12"
	60" to 120"	L/5

SIGN SHAPE OTHER THAN DIAMOND (THREE POSTS REQUIRED)	
L	E
Greater than 120" less than 168"	12"

SIGN SHAPE OTHER THAN DIAMOND (FOUR POSTS REQUIRED)	
L	E
168" and greater	12"

GENERAL NOTES

1. For 3 or 4 post installations, individual post spacing shall be greater than 3'-6".
2. See tables below for required number of posts.
3. For expressways and freeways, mounting height is 7'-3" (±) or 6'-3" (±) depending upon existence of sub-sign.
4. The (±) tolerance for mounting height is 3 inches.
5. Minimum mounting height for J assemblies (A2-1S) is 7'-3" (±) or 6'-3" (±) per urban or rural detail respectively.
6. Offset distance shall be consistent with existing signs or consistent throughout length of project.
7. Folding signs shall be mounted at a height of 5'-3" (±) or as directed by the engineer.
8. The Double Arrow sign (W12-1) shall be mounted at a height of 2'-3" (±). The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), Clearance Markers (W5-52), Mile Markers (D10 series), In Road Object Markers (W5-54) & End of Road Markers (W5-56) shall be mounted at a height of 4"-3" (±).

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

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

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

POST EMBEDMENT DEPTH

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

TYPICAL INSTALLATION OF TYPE II SIGNS ON MULTIPLE POSTS

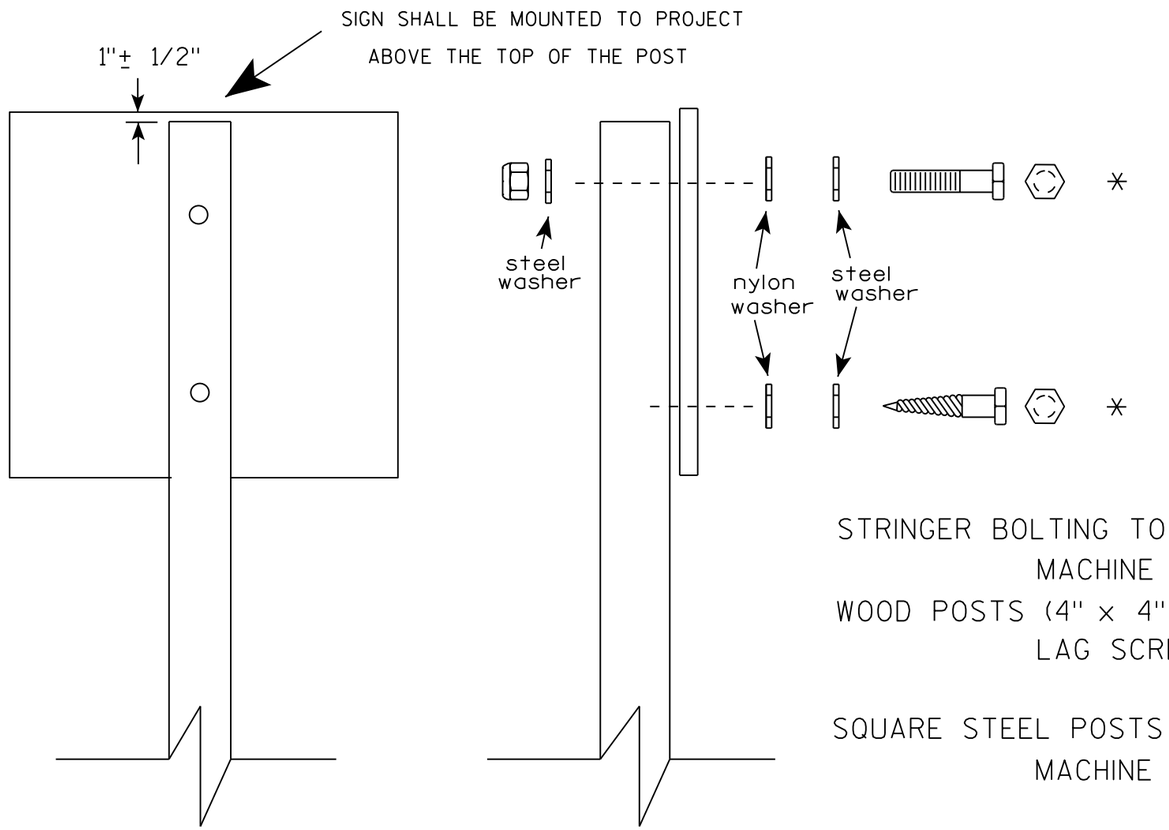
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 7/23/15 PLATE NO. A4-4 14

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\A44.DGN PLOT DATE : 23-JUL-2015 15:23 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 107.021305:1.000000 WISDOT/CADDS SHEET 42



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

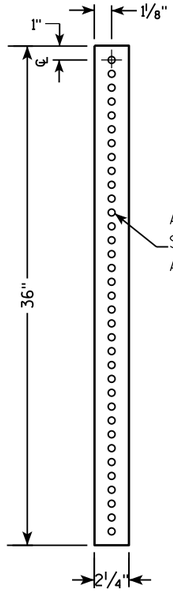
DATE 8/11/16 PLATE NO. A4-8.8

PROJECT NO: SHEET NO: E

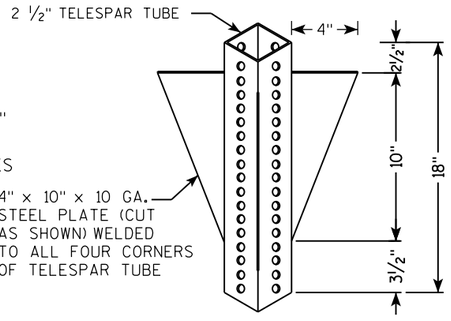
FILE NAME : C:\CADfiles\Projects\tr_stdplate\A48.DGN PLOT DATE : 11-AUG-2016 11:35 PLOT BY : $$ plotuser $$

TELESCOPIC TUBING ANCHORS
TWO PIECE SYSTEM

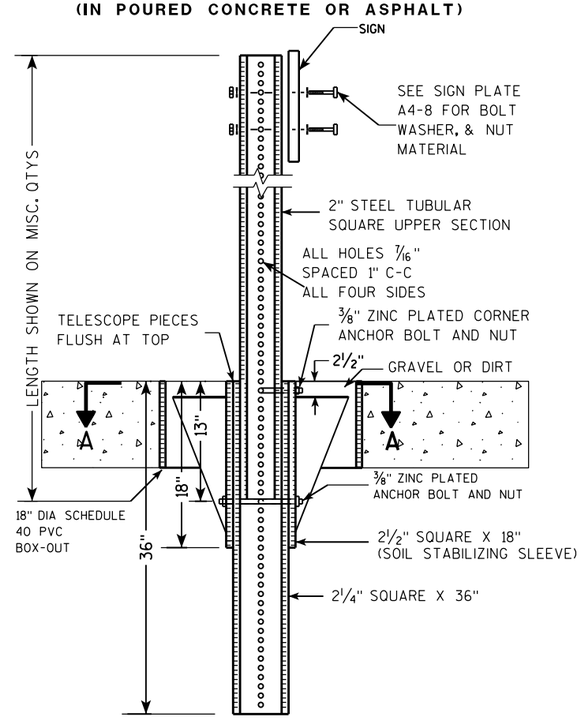
2 1/4 " SQUARE
12 GAUGE
PERFORATED
GALVANIZED FINISH



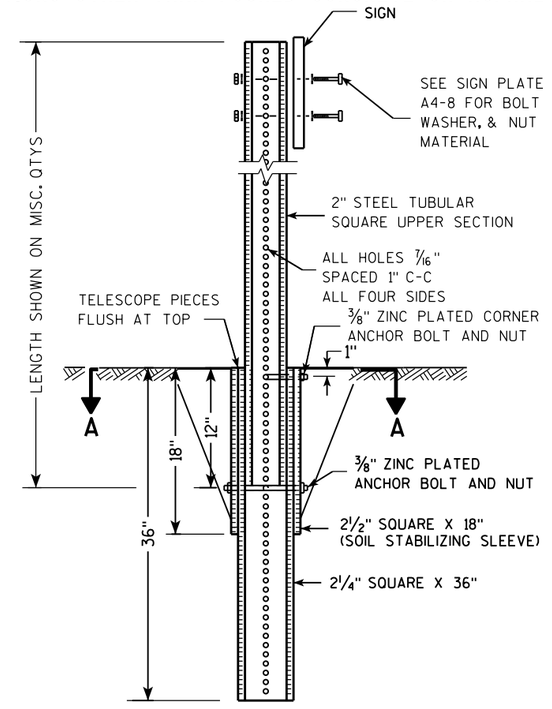
2 1/2 " SQUARE
12 GAUGE
OMNI-DIRECTIONAL
PERFORATED
SOIL STABILIZING SLEEVE
GALVANIZED FINISH

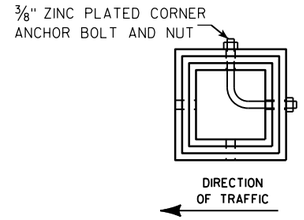


DETAIL OF TUBULAR STEEL SIGN POST
(IN POURED CONCRETE OR ASPHALT)



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





SECTION A-A

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

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

TUBULAR STEEL
SIGN POST
A4-9

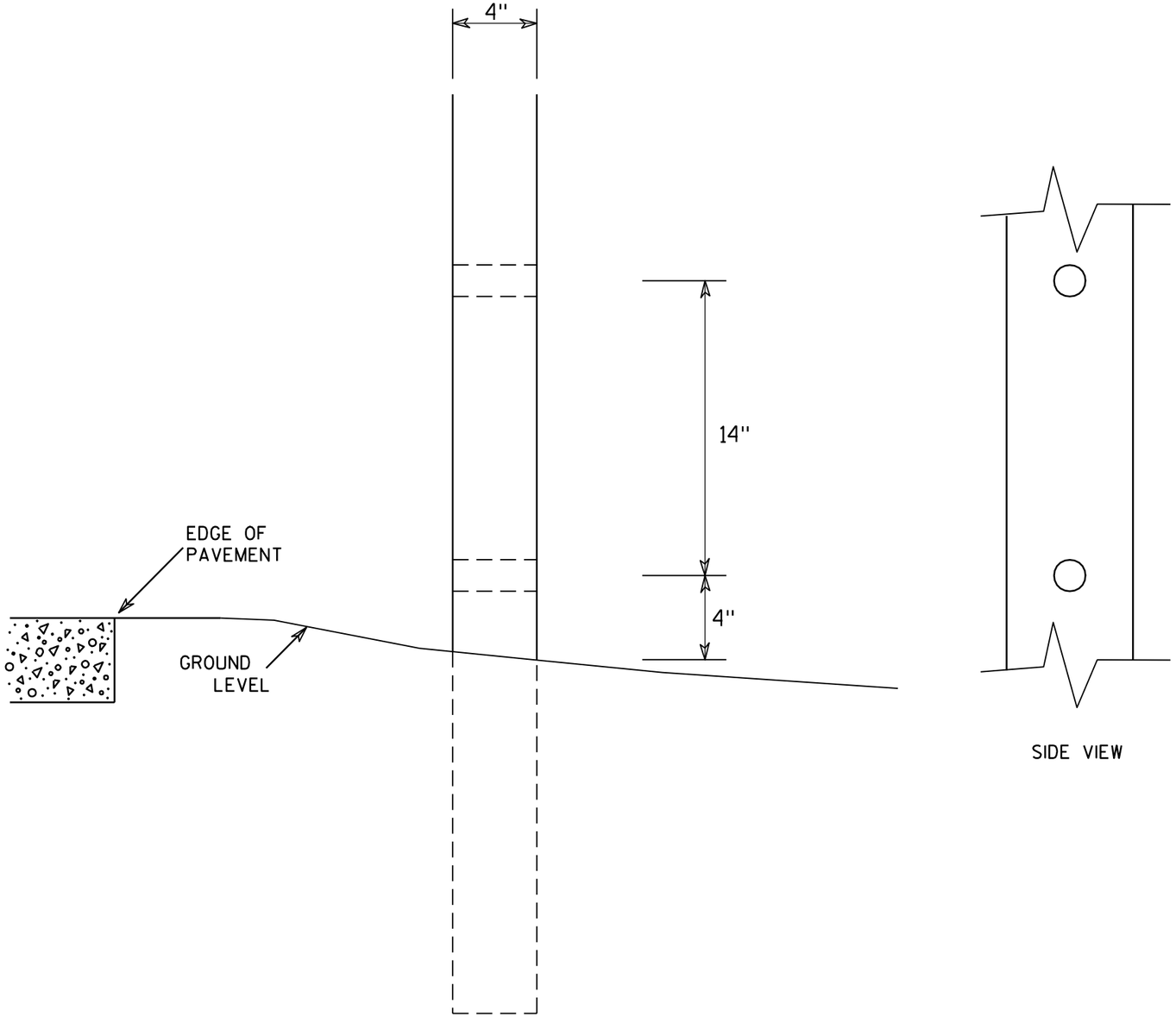
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/05/15 PLATE A4-9.9

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

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



SIDE VIEW

GENERAL NOTES

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

7

7

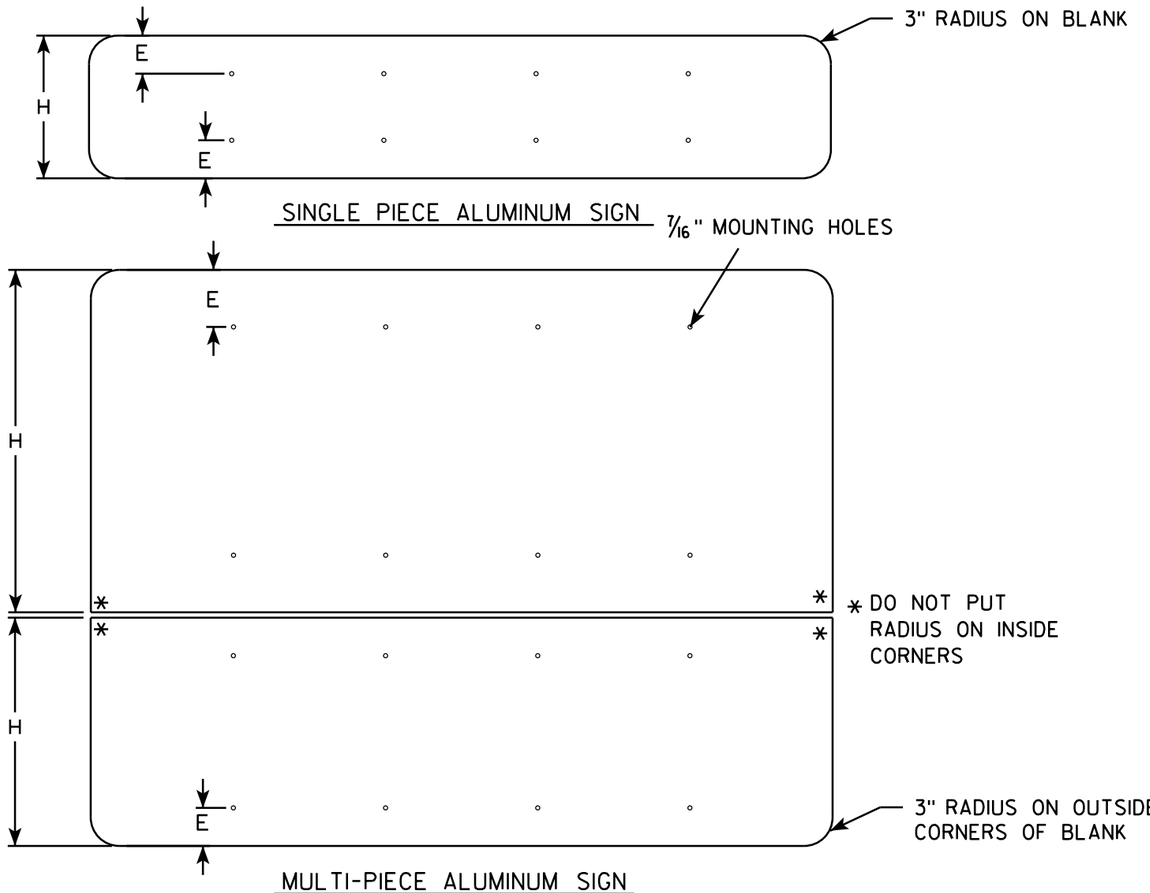
4 X 6 WOOD POST MODIFICATIONS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Chester J Spang
for State Traffic Engineer

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

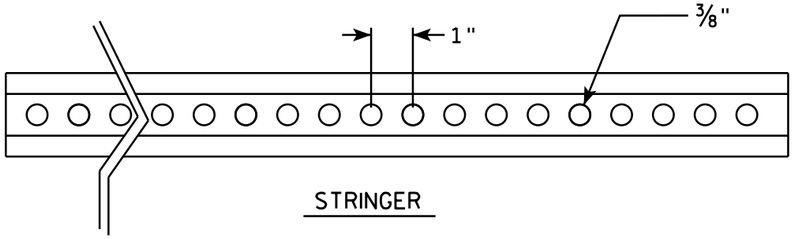
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 120	E



GENERAL NOTES

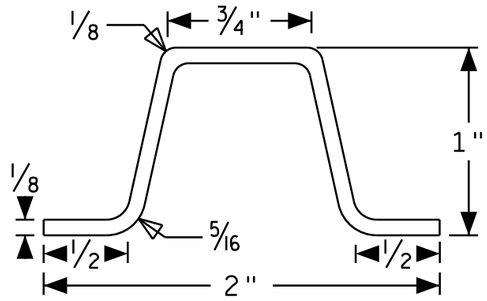
- ALL SIGNS OVER 60" IN WIDTH SHALL HAVE A 3" RADIUS ON THE OUTSIDE CORNERS OF THE ALUMINUM BLANK.
- MOUNTING HOLES SHALL BE 7/16" DIAMETER.
- SEE CHART FOR HOLE SPACING REQUIREMENTS
- FOR SIGN PANELS WITH DIMENSION (H) 36" AND OVER, DIMENSION E SHALL BE 6"
- FOR SIGN PANELS WITH DIMENSION (H) UNDER 36", DIMENSION E SHALL BE 4"
- SIGN STRINGER MATERIAL SHALL CONSIST OF STEEL CHANNEL POST SECTIONS, WEIGHING 1.12 LBS/FT IN ACCORDANCE WITH SECTION 633.2.1 OF THE STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION.
- SEE SIGN PLATE A4-8 FOR SIGN STRINGER BOLTING REQUIREMENTS.

SIGN WIDTH	STRINGER WIDTH	POSTS	HOLE SPACING	MOUNTING HOLES
78"	72"	2	16"	15" 31" 47" 63"
84"	72"	2	17"	16½" 33½" 50½" 67½"
90"	72"	2	18"	18" 36" 54" 72"
96"	90"	2	19"	19½" 38½" 57½" 76½"
102"	90"	2	20"	21" 41" 61" 81"
108"	90"	2	21"	22½" 43½" 64½" 85½"
114"	108"	3	15"	12" 27" 42" 57" 72" 87" 102"
120"	108"	3	16"	12" 28" 44" 60" 76" 92" 108"
126"	108"	3	17"	12" 29" 46" 63" 80" 97" 114"
132"	126"	3	18"	12" 30" 48" 66" 84" 102" 120"
138"	126"	3	19"	12" 31" 50" 69" 88" 107" 126"
144"	126"	3	20"	12" 32" 52" 72" 92" 112" 132"

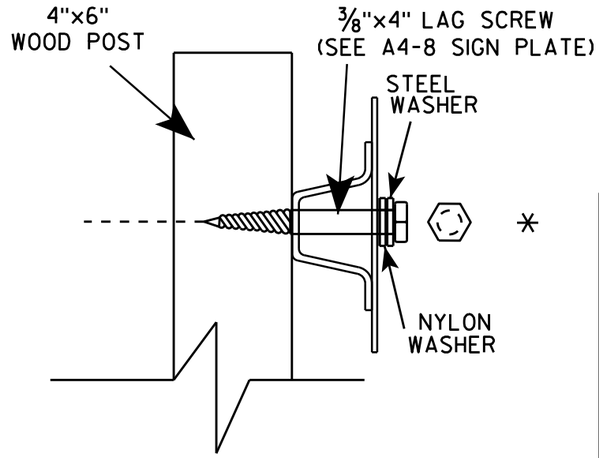


STRINGER

CROSS SECTION VIEW OF CHANNEL



POST MOUNTING



SIGN STRINGER MOUNTING REQUIREMENTS

WISCONSIN DEPT OF TRANSPORTATION

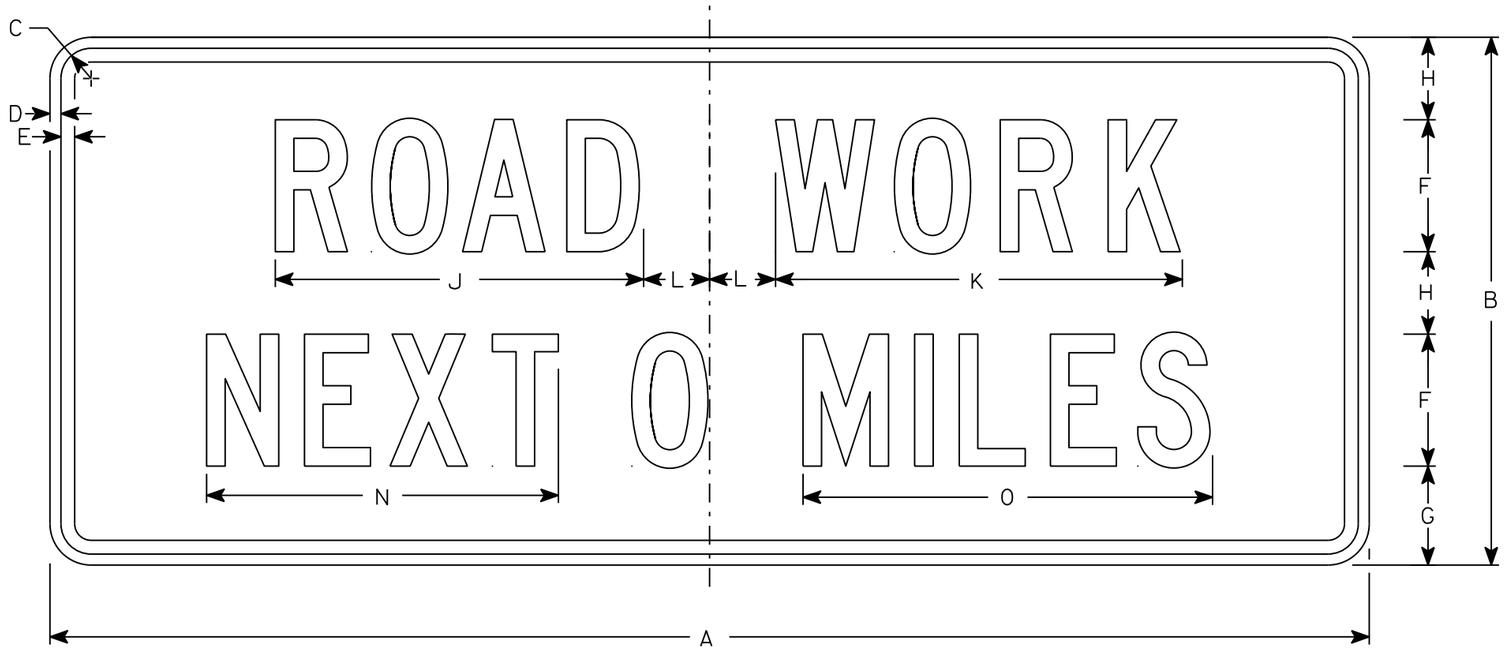
APPROVED Matthew R Rauch

for State Traffic Engineer

DATE 4/26/16 PLATE NO A4-18.1

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\A418.dgn PLOT DATE : 27-APR-2016 13:56 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 41.805205:1.000000 WISDOT/CADDS SHEET 42



G20-1

NOTES

1. Sign is Type II - Type F Reflective
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.
5. Round distance to nearest whole Mile and 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																											
2	60	24	1 3/8	1/2	5/8	6	4 1/2	3 3/4		16 3/4	18 1/2	3		16	18 5/8												10
3																											
4	60	24	1 3/8	1/2	5/8	6	4 1/2	3 3/4		16 3/4	18 1/2	3		16	18 5/8												10
5																											

STANDARD SIGN
G20-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/14/17 PLATE NO. G20-1.8

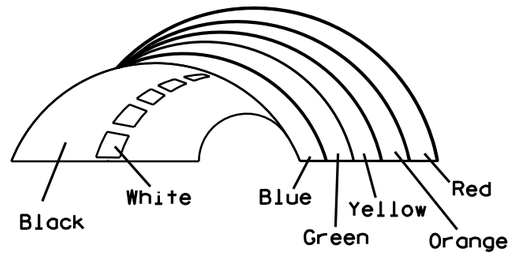
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 122 | E

* VARIES

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 - (See Note 5)
3. Message Series - (See Note 6)
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. Border - Blue
   Line 1 - Red
   Line 2 - Black
   Line 3-5 - Blue
6. Line 1 - Dutch 8011L
   Line 2 - Series E
   Line 3-5 - Series C
7. Contractor shall provide and install a new post bracket in accordance with the I55-56B sign detail.

Background Colors of Symbol*



*1/4" Black Border between each color of rainbow and border of rainbow

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	30	36	1 1/2	1/2	5/8	3	2	3 1/2	2 7/8	1	8	2 1/8	11 1/4	11 1/8	9 3/8	1 1/4		3/4	12 5/8	7 1/2							7.5
3																											
4																											
5																											

STANDARD SIGN
I55-56

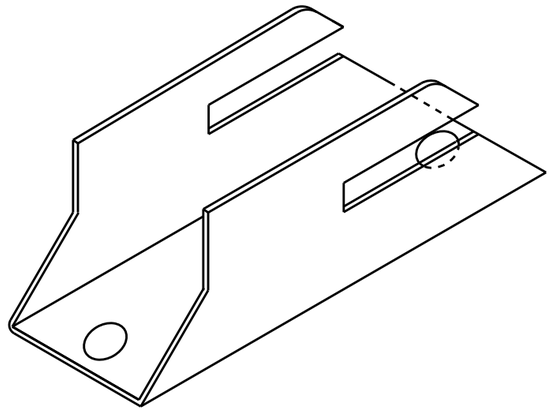
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

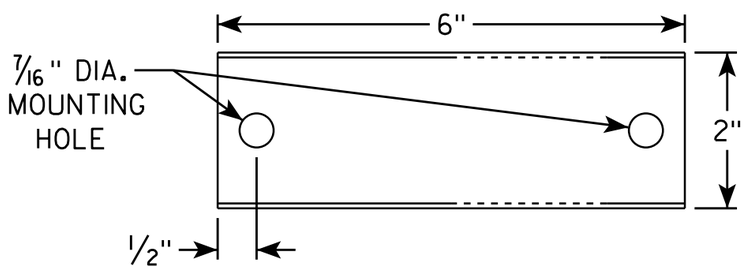
DATE 4/27/11 PLATE NO. 155-56.3

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 123

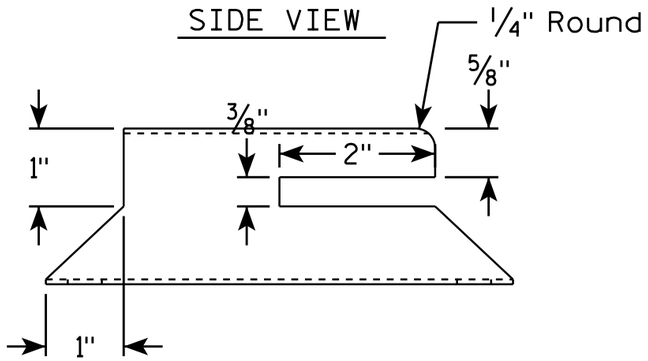
ISOMETRIC VIEW



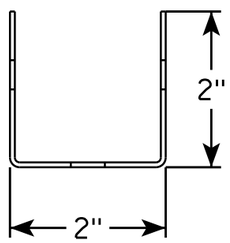
TOP VIEW



SIDE VIEW



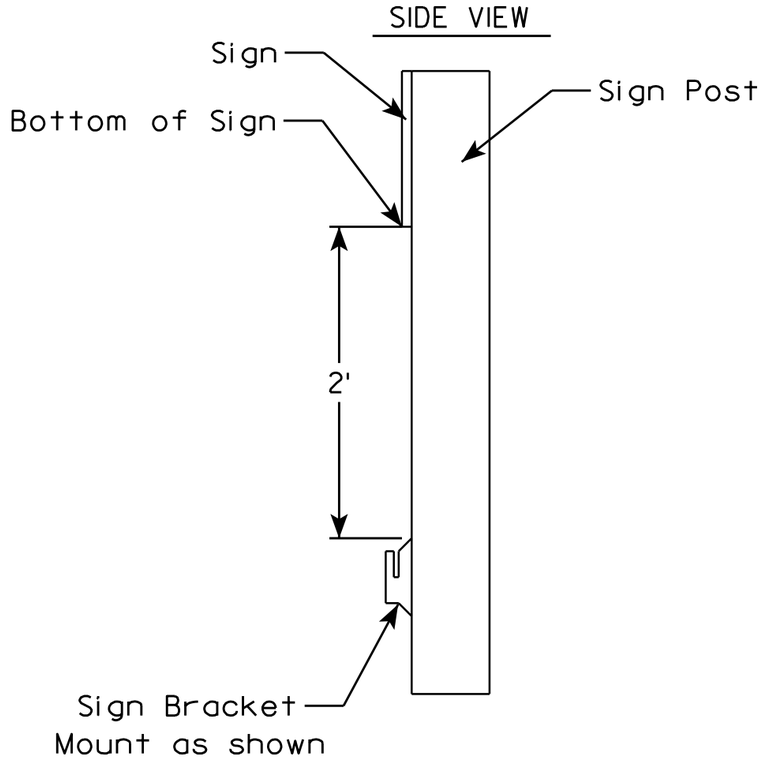
END VIEW



NOTES

1. Must be capable of permanent attachment to a wood or steel channel sign post utilizing the fastening hardware specified on the A4-8 sign plate.
2. Shall be entirely primed and painted with two coats of a black powder coated enamel paint.
3. Shall be made with 12 gauge steel, and incorporate no welds, no hinged components, no threaded lock-type components, and no parts which are loose or can be separated from the main body.
4. Shall have rounded edges with at least 1/8" radii.
5. Shall not have unrounded and uncoated metal edges which can contact the back surface of the roll-up sign.
6. Top of bracket shall be mounted 2' below the bottom of the I55-56 sign.
7. Cost of bracket and fastening hardware shall be incidental to the I55-56 sign.

SIDE VIEW



ROLLUP SIGN BRACKET
I55-56B

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

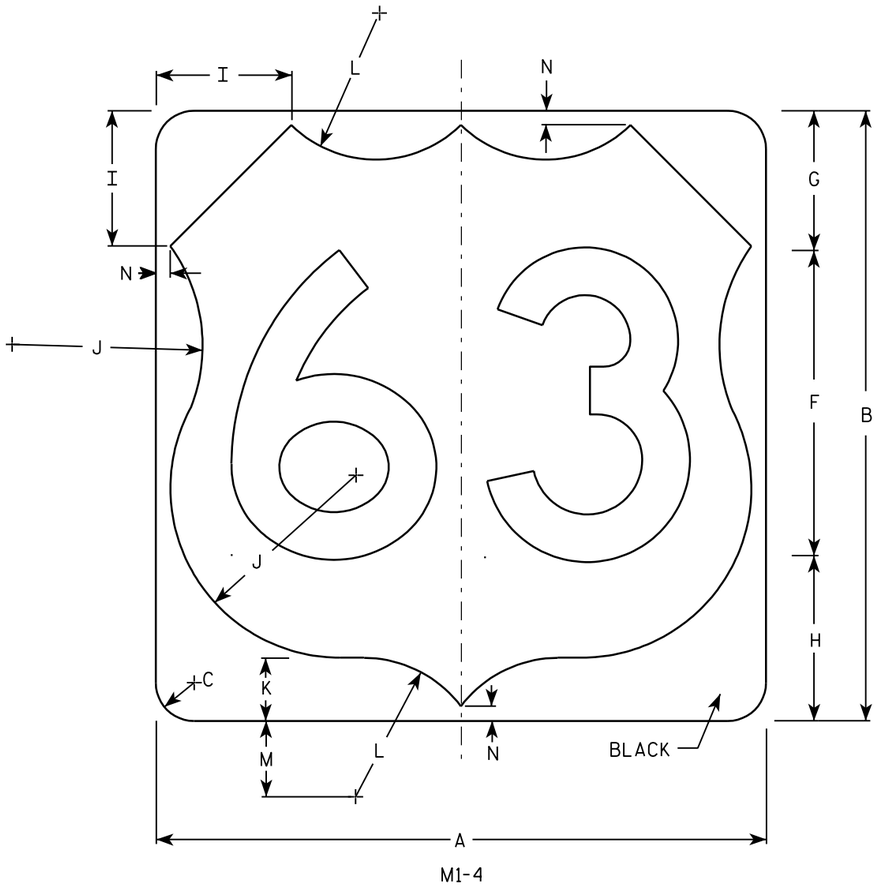
DATE 4/26/16 PLATE I55-56B.2

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

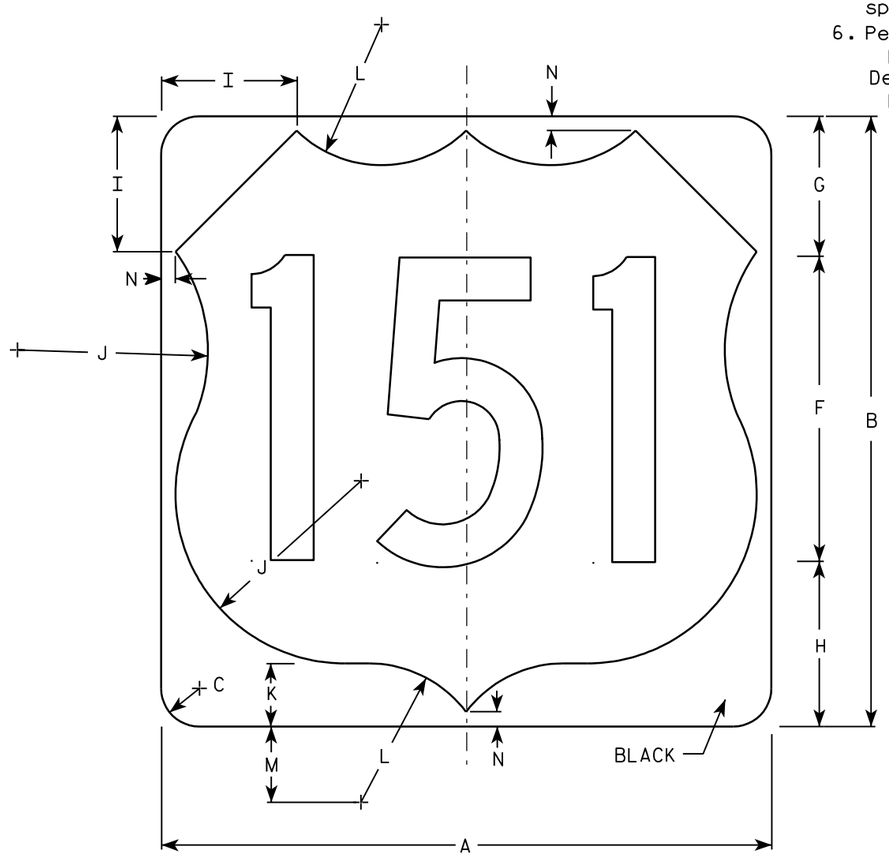
FILE NAME : C:\CAEfiles\Projects\tr_stdplate\I5556B.DGN PLOT DATE : 26-APR-2016 17:29 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 1.945842:1.000000
WISDOT/CADDS SHEET 42

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 numerals and adjust spacing as per Plate A10-1.
6. Permanent Signs
   Background - Type H Reflective
   Detour or other temporary signs
   Background - Reflective



M1-4



M1-4

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	24	1 ½			12	5 ½	6 ½	5	7 ½	2 ½	5 ½	3	½													4.0	.36
3	36	36	2 ¼			18	8 ¼	9 ¼	7 ¼	11 ¼	3 ¾	8 ¼	4 ½	¾													9.0	.81
4	36	36	2 ¼			18	8 ¼	9 ¼	7 ¼	11 ¼	3 ¾	8 ¼	4 ½	¾													9.0	.81
5	36	36	2 ¼			18	8 ¼	9 ¼	7 ¼	11 ¼	3 ¾	8 ¼	4 ½	¾													9.0	.81

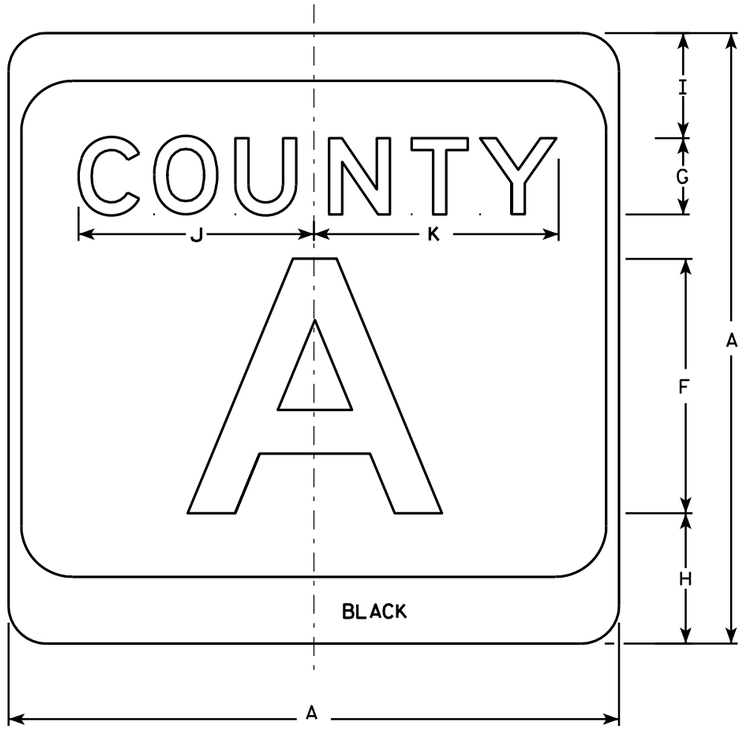
USH MARKER
M1-4 FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

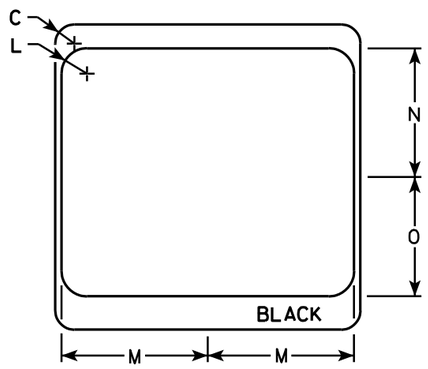
APPROVED Matthew R Rauch
for State Traffic Engineer

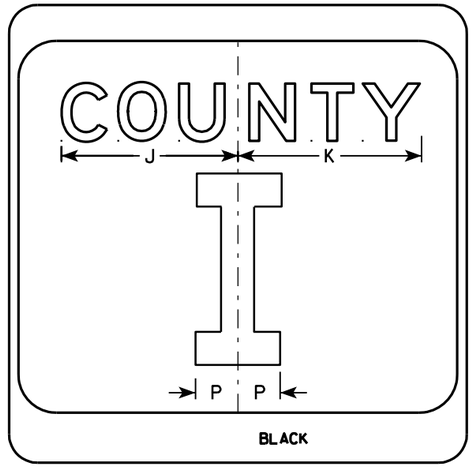
DATE 08/25/05 PLATE NO. M1-4.9

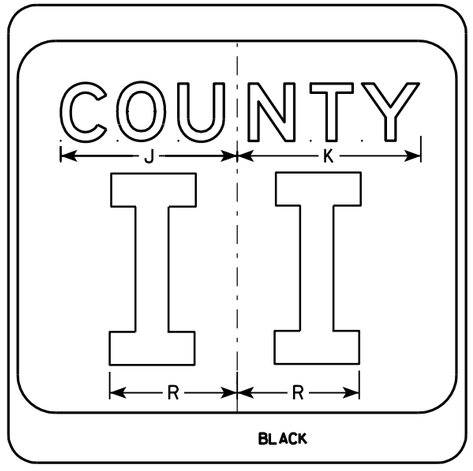
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 125 | E



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

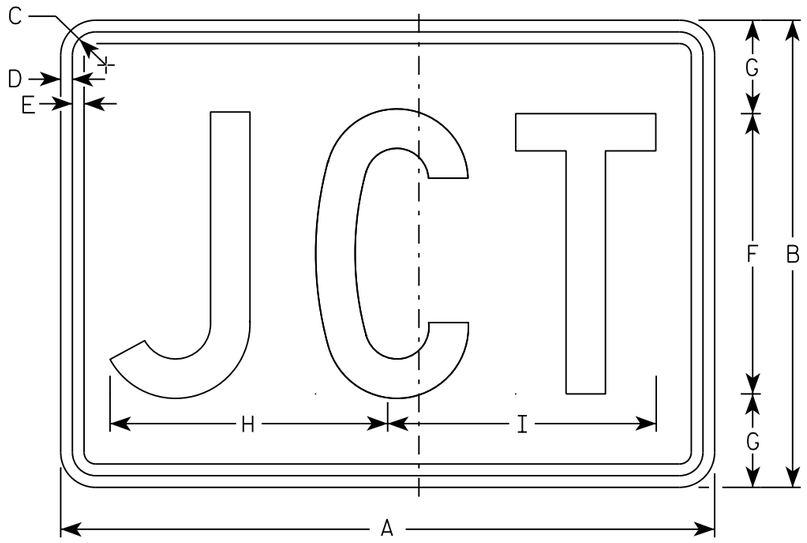
CTH MARKER
M1-5A FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

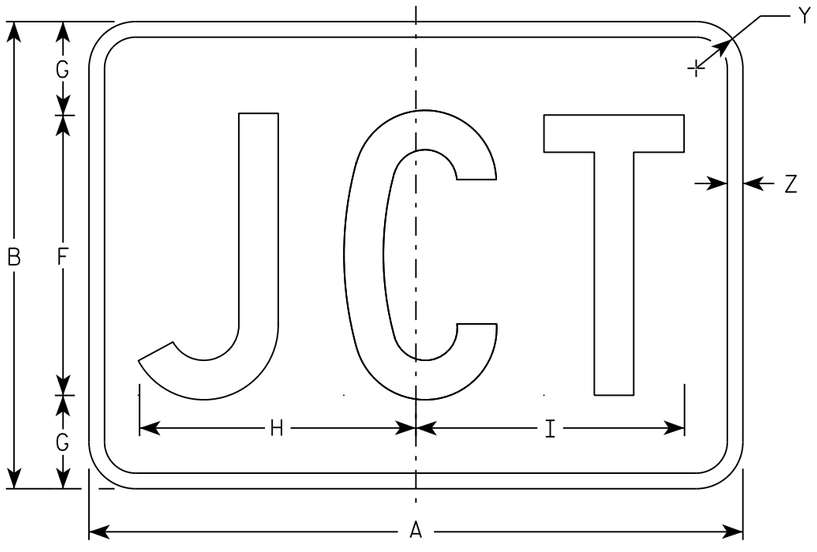
APPROVED Matthew R Rauch
for State Traffic Engineer

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

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

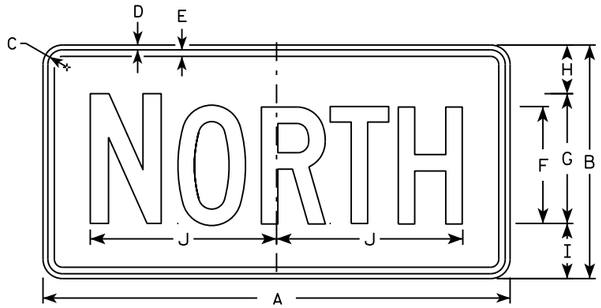
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

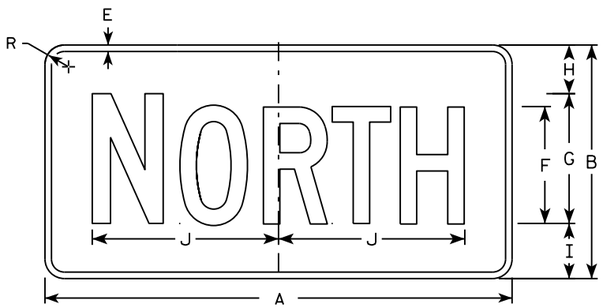
DATE 10/15/15 PLATE 127 12-1.12

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\M21.DGN PLOT DATE : 01-DEC-2015 17:54 PLOT BY : $$ plotuser $$ PLOT NAME : PLOT SCALE : 4.864603:1.000000



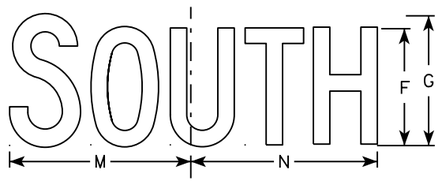
M3-1
MM3-1
MP3-1



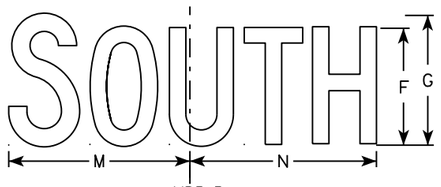
MB3-1
MK3-1
MN3-1

M3-2
MM3-2
MP3-2

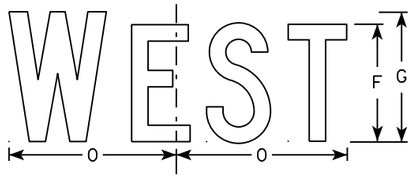
MB3-2
MK3-2
MN3-2



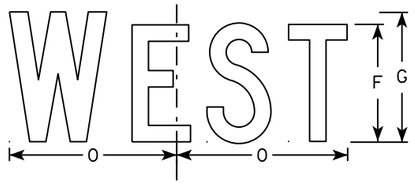
M3-3
MM3-3
MP3-3



MB3-3
MK3-3
MN3-3



M3-4
MM3-4
MP3-4



MB3-4
MK3-4
MN3-4

NOTES

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

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

STANDARD SIGNS
M3-1 thur M3-4
SERIES

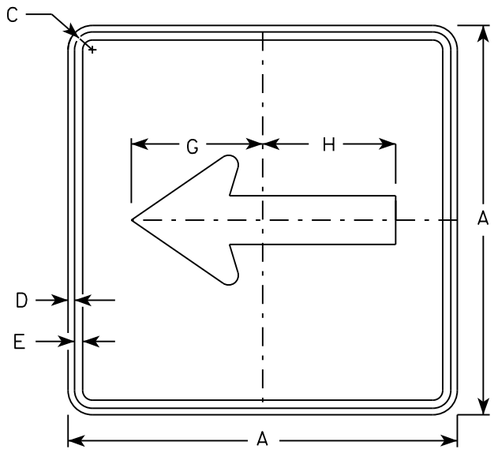
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew P Rauch for State Traffic Engineer

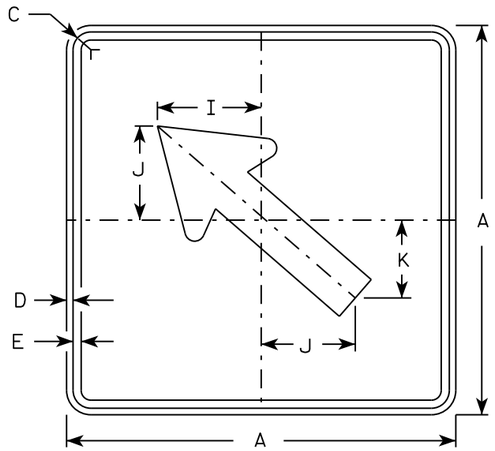
DATE 10/15/15 PLATE NO M3-1.14

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

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



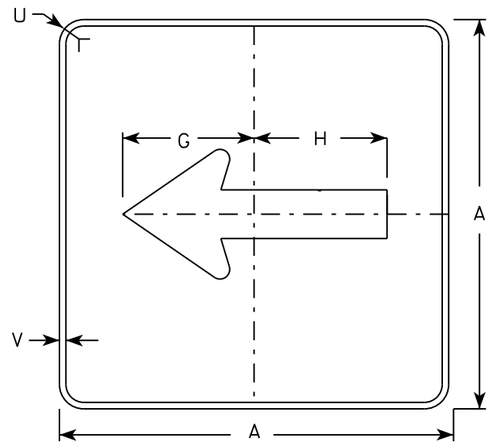
M6-1
MM6-1
MO6-1
MP6-1



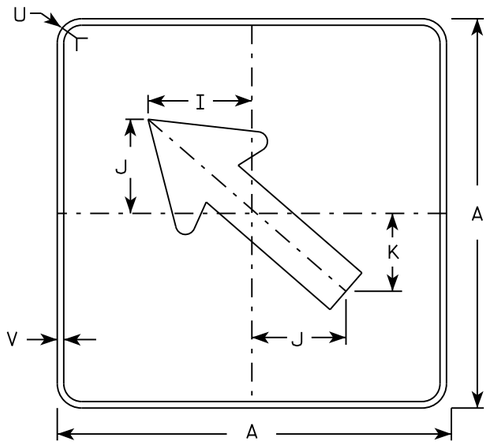
M6-2
MM6-2
MO6-2
MP6-2

NOTES

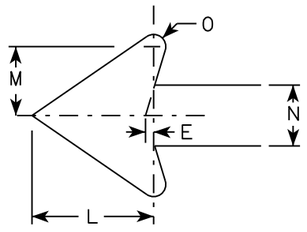
1. Signs are Type II - Type H except as Shown
2. Color:
   Background - See note 4
   Message - See note 4
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. M6-1 and M6-2 Background - 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

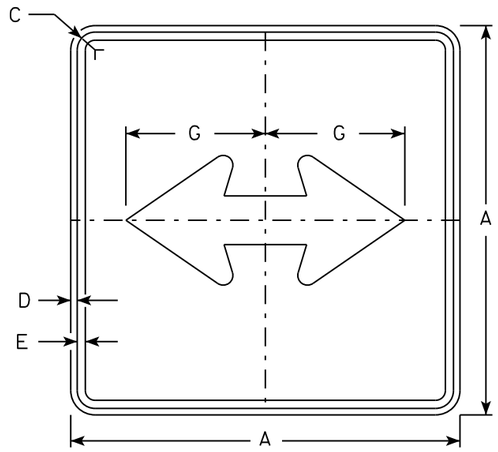
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

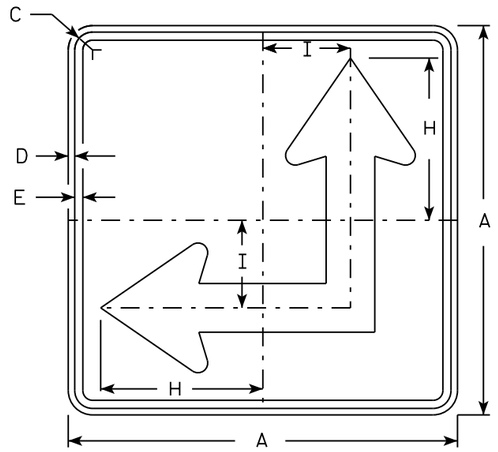
DATE 10/15/15 PLATE 129 M6-1.15

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\M61.DGN PLOT DATE : 01-DEC-2015 17:57 PLOT BY : $$ plotuser $$ PLOT NAME : PLOT SCALE : 11.675051:1.000000



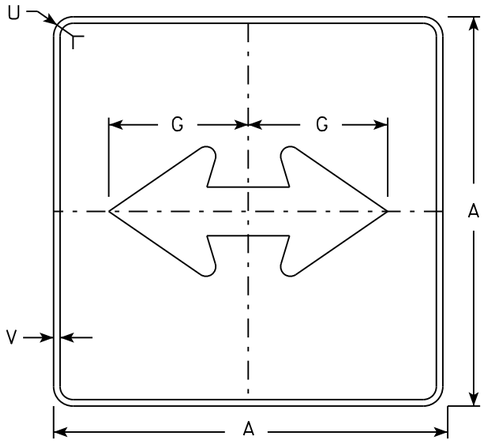
M6-4
MM6-4
MO6-4
MP6-4



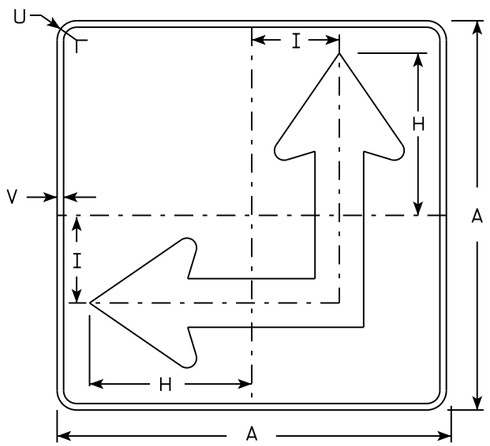
M6-6
MM6-6
MO6-6
MP6-6

NOTES

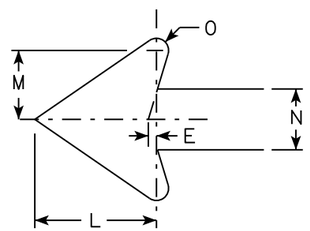
1. Signs are Type II - Type H except as Shown
2. Color:
   Background - See Note 4
   Message - See Note 4
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. M6-4 and M6-6 Background - White
   Message - Black
   MB6-4 and MB6-6 Background - Blue
   Message - White
   MK6-4 and MK6-6 Background - Green
   Message - White
   MM6-4 and MM6-6 Background - White
   Message - Green
   MN6-4 and MN6-6 Background - Brown
   Message - White
   MO6-4 and MO6-6 Background - Orange - Type F Reflective
   Message - Black
   MP6-4 and MP6-6 Background - White
   Message - Blue
   MR6-4 and MR6-6 Background - Brown
   Message - Yellow
5. M6-6R same as M6-6L except arrow points ahead and right.



MB6-4
MK6-4
MN6-4
MR6-4



MB6-6
MK6-6
MN6-6
MR6-6



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	8 3/4	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	12 1/2	6 3/4			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	12 1/2	6 3/4			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	12 1/2	6 3/4			7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2					6.25

STANDARD SIGN
M6-4 & M6-6
SERIES

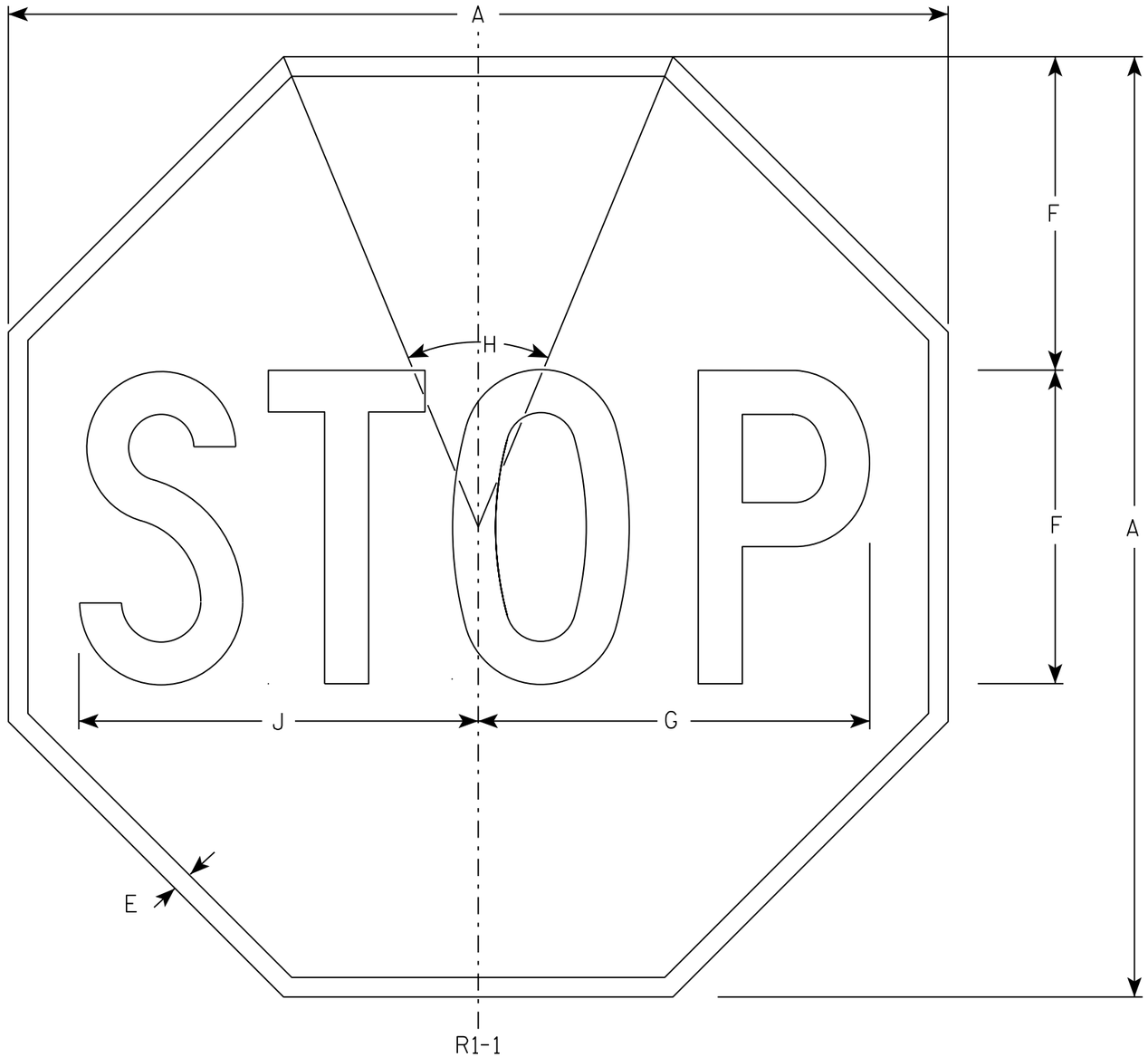
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 10/15/15 PLATE 130 M6-4.10

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

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\M64.DGN PLOT DATE : 01-DEC-2015 17:58 PLOT BY : $$ platuser $$ PLOT NAME : PLOT SCALE : 11.675051:1.000000



R1-1

NOTES

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

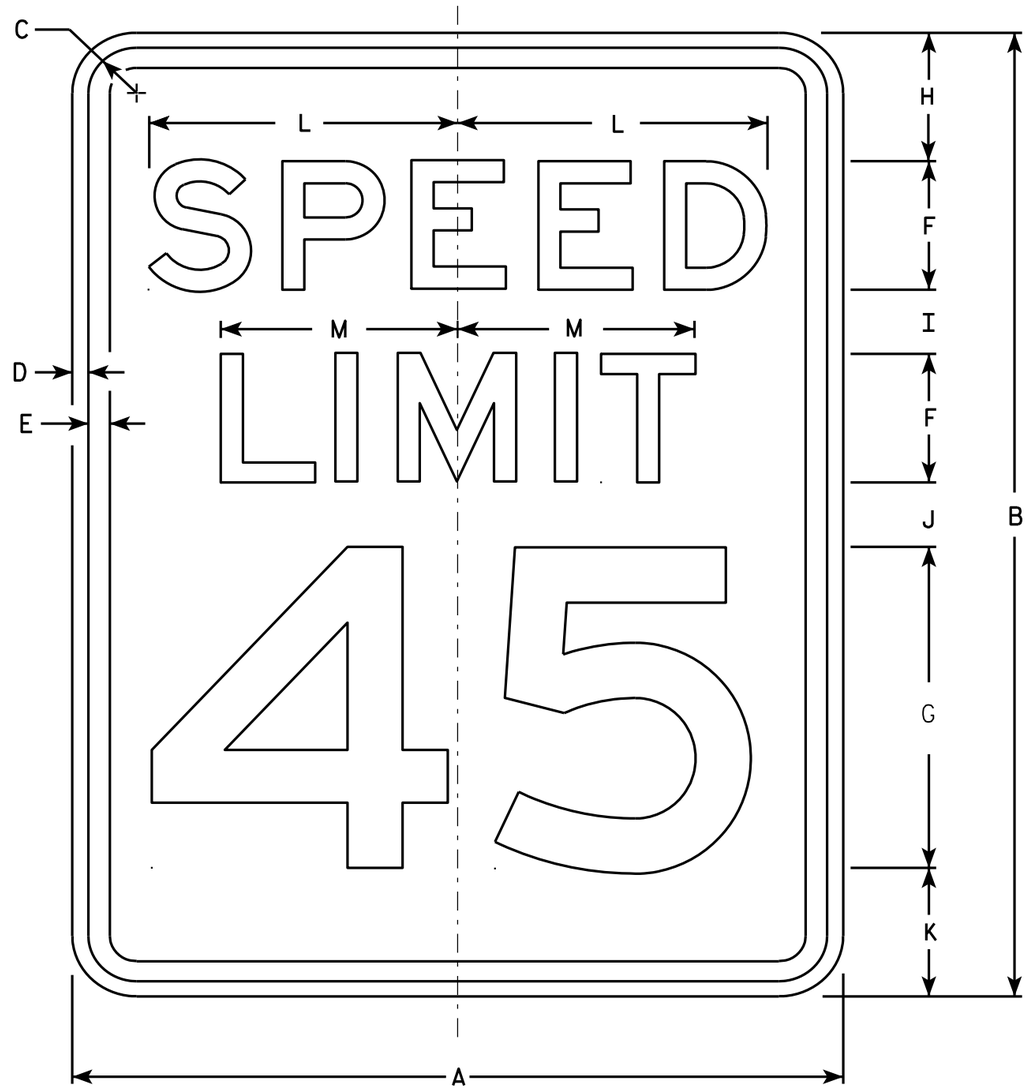
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/12/15 PLATE R1-1.13

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\R11.DGN PLOT DATE : 01-DEC-2015 18:07 PLOT BY : $$ plotuser $$ PLOT NAME : PLOT SCALE : 4.378143:1.000000



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: 132 | E

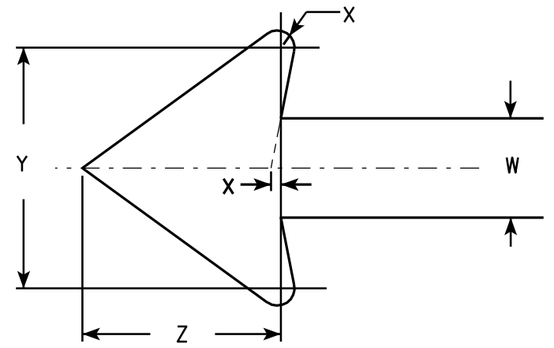
FILE NAME : C:\Users\PROJECTS\tr_stdplate\R21.DGN PLOT DATE : 28-MAY-2010 08:32 PLOT BY : ditjph PLOT NAME : PLOT SCALE : 4.717577:1.000000

WISDOT/CADDS SHEET 42

R7-53

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 - 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. R7-53D (double arrow)
   R7-53L (left arrow)
   R7-53R (right arrow)



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	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 5/8	1 3/4	1/4	4 1/2	2 3/8	3 7/8	3/4	1/8	1 3/4	1 1/2	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	3 3/8	1 1/2	5/8	5 3/8	3	5 7/8	1 1/8	1/4	2 5/8	2 1/4	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	4	2	5/8	6 5/8	3 5/8	7 3/4	1 1/2	1/4	3 1/2	3	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	4	2	5/8	6 5/8	3 5/8	7 3/4	1 1/2	1/4	3 1/2	3	5.0
4																											
5																											

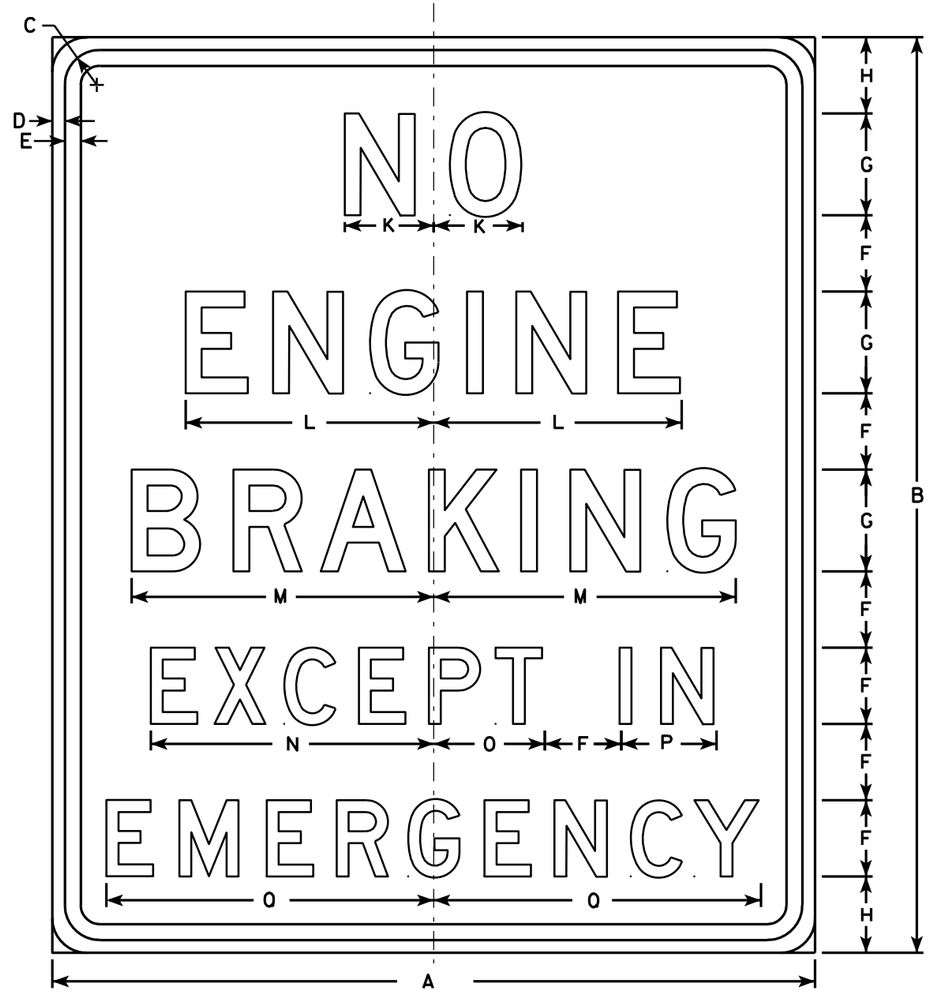
STANDARD SIGN
R7-53

WISCONSIN DEPT OF TRANSPORTATION

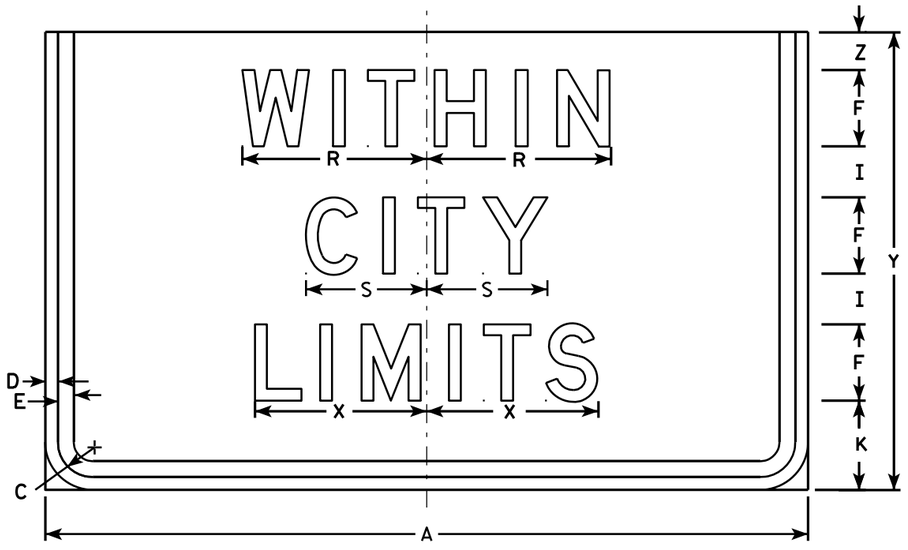
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/31/2011 PLATE NO. R7-53.6

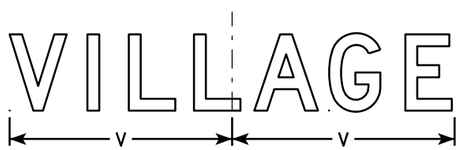
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 133	E



R10-64



R10-64F



Area sq. ft.
3.75
7.0

NOTES

1. Signs are 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 - D 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 2 of R10-64F is Series C for "TOWNSHIP" Only

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	36	1 3/8	1/2	5/8	3	4	3	2		3 1/2	9 3/4	11 7/8	11 1/8	4 3/8	3 3/4	12 7/8	7 1/4	4 3/4		8 1/4	8 3/4	5/8	6 3/4	18	1 1/2	7.5
2S	30	36	1 3/8	1/2	5/8	3	4	3	2		3 1/2	9 3/4	11 7/8	11 1/8	4 3/8	3 3/4	12 7/8	7 1/4	4 3/4		8 1/4	8 3/4	5/8	6 3/4	18	1 1/2	7.5
2M	30	36	1 3/8	1/2	5/8	3	4	3	2		3 1/2	9 3/4	11 7/8	11 1/8	4 3/8	3 3/4	12 7/8	7 1/4	4 3/4		8 1/4	8 3/4	5/8	6 3/4	18	1 1/2	7.5
3	42	48	1 3/8	1/2	5/8	4	5	4 1/2	3		4	12 1/4	14 7/8	14 1/8	5 1/4	4 3/4	16 1/4	9	6		11	11 1/4	1 1/2	8 1/2	24	2	14.0
4																											
5																											

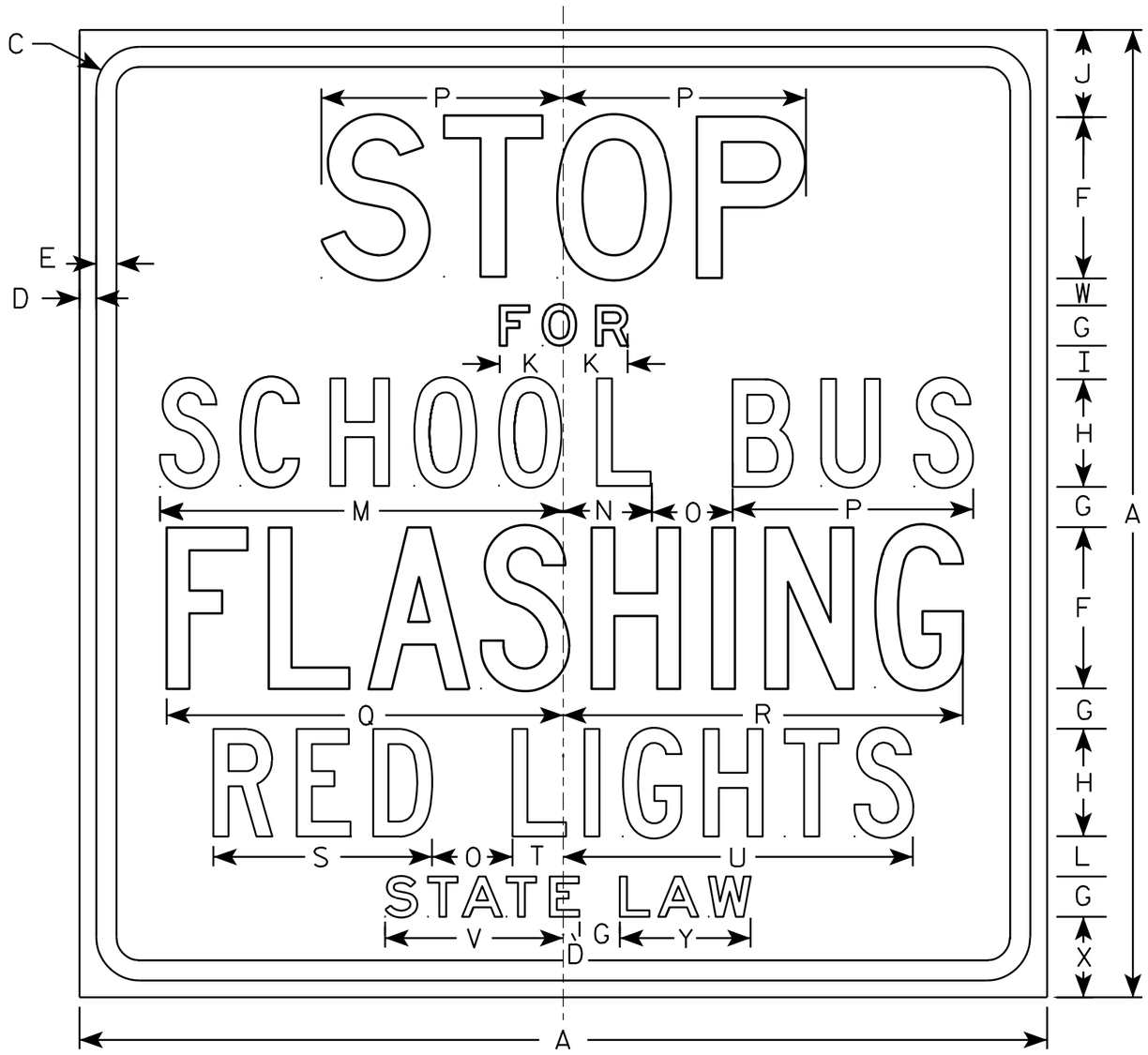
STANDARD SIGN
R10-64 & R10-64F

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 4/4/11 PLATE NO. R10-64.7

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 134 | E



R59-51

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. Line 1 is Series D
   Lines 2 & 6 are Series E
   Line 3, 4 & 5 are Series C

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																											
2S	36		1 5/8	5/8	3/4	6	1 1/2	4	1 1/4	3 1/4	2 3/8	1 1/2	15	3 1/4	3	9	14 3/4	14 7/8	8 1/8	1 7/8	13	6 5/8	1	3	4 7/8		9.0
2M	36		1 5/8	5/8	3/4	6	1 1/2	4	1 1/4	3 1/4	2 3/8	1 1/2	15	3 1/4	3	9	14 3/4	14 7/8	8 1/8	1 7/8	13	6 5/8	1	3	4 7/8		9.0
3	48		2 1/4	3/4	1	8	2	6	1 1/4	4 3/4	3 1/4	1 1/2	20 1/4	5	3 5/8	12	19 1/2	20	11 5/8	3 3/4	19	9 1/2	1	3 1/2	6 3/4		16.0
4	48		2 1/4	3/4	1	8	2	6	1 1/4	4 3/4	3 1/4	1 1/2	20 1/4	5	3 5/8	12	19 1/2	20	11 5/8	3 3/4	19	9 1/2	1	3 1/2	6 3/4		16.0
5																											

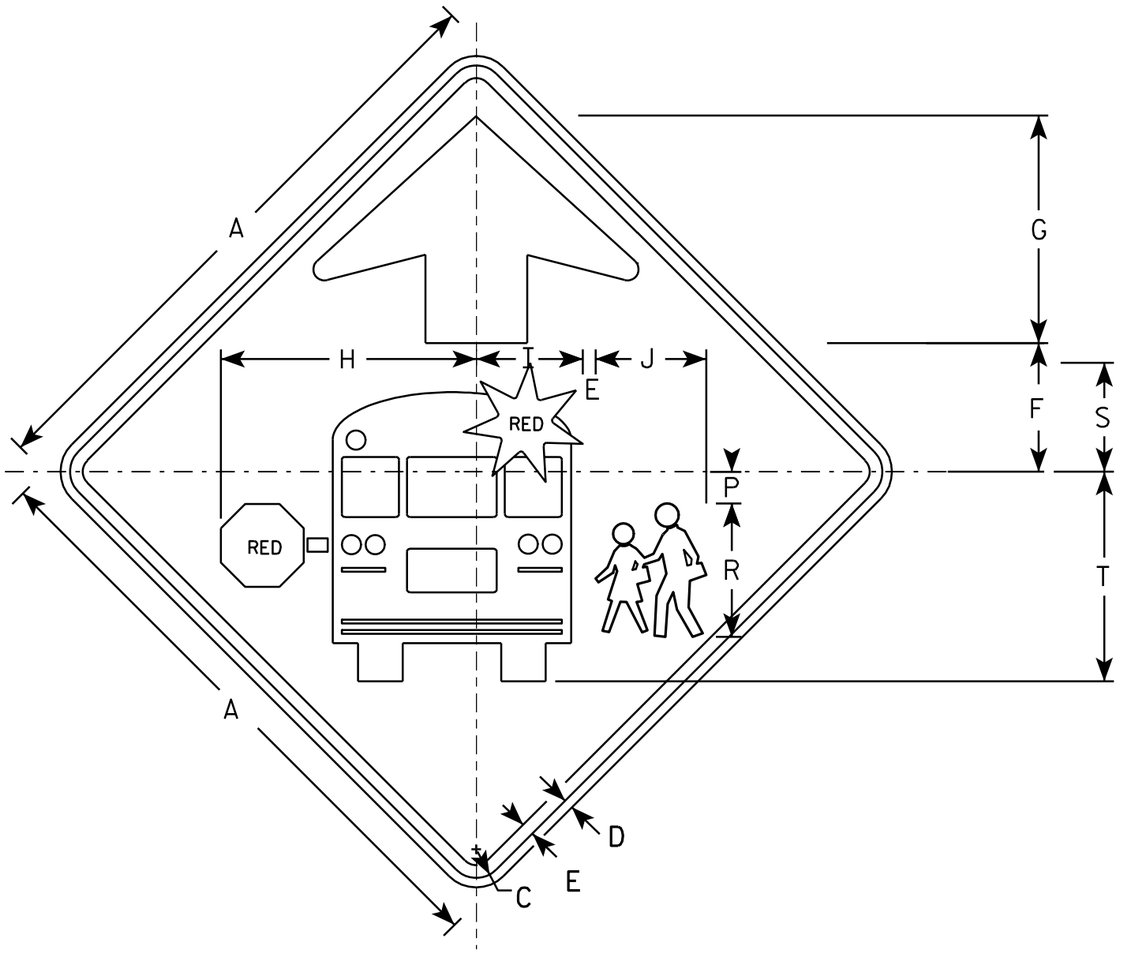
STANDARD SIGN
R59-51

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/30/11 PLATE NO. R59-51.10

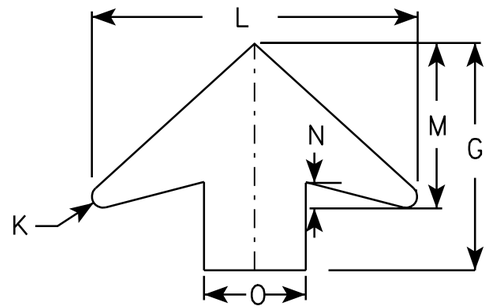
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 135 | E



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

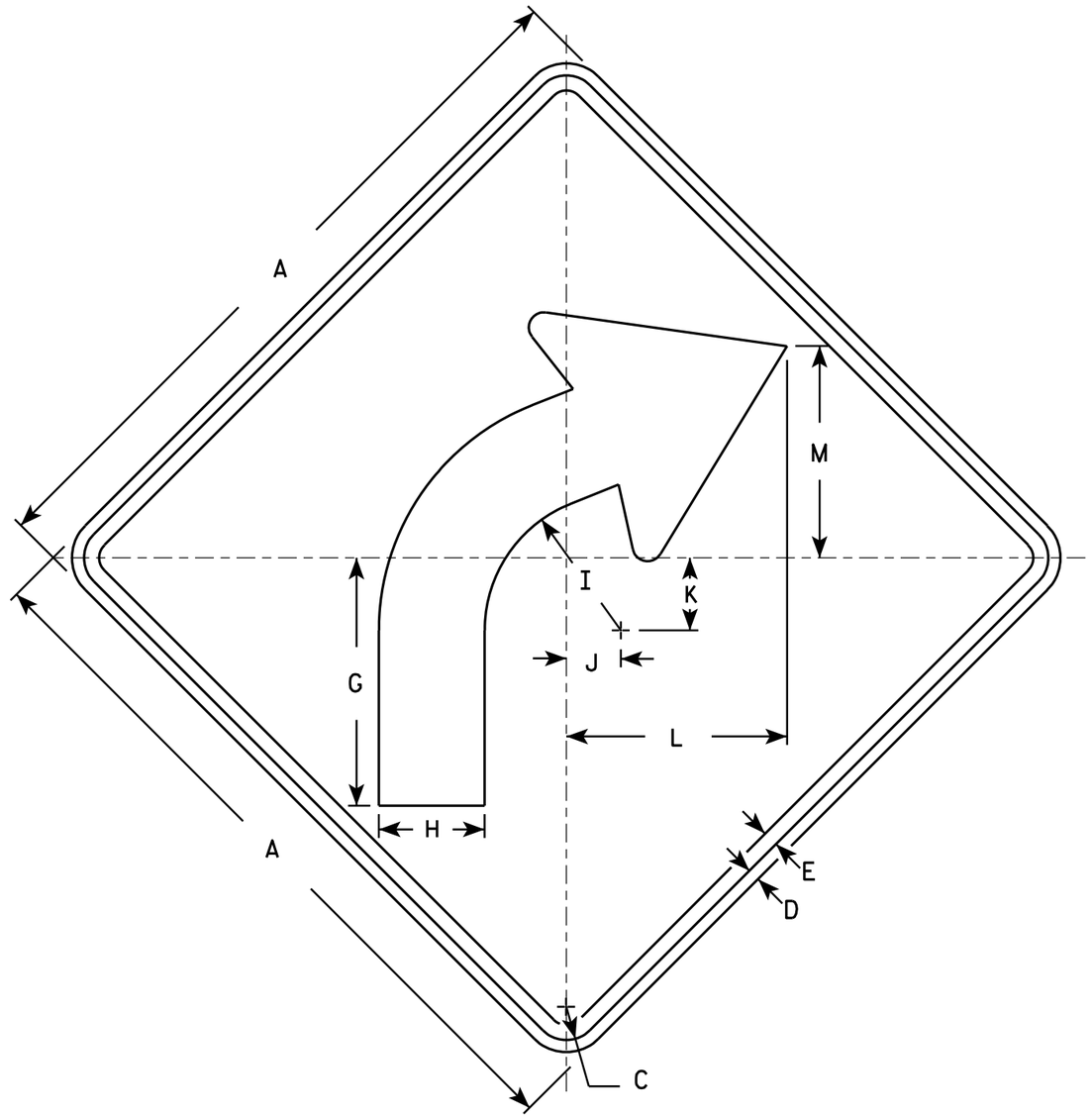
DATE 6/8/10 PLATE NO. S3-1.6

PROJECT NO:

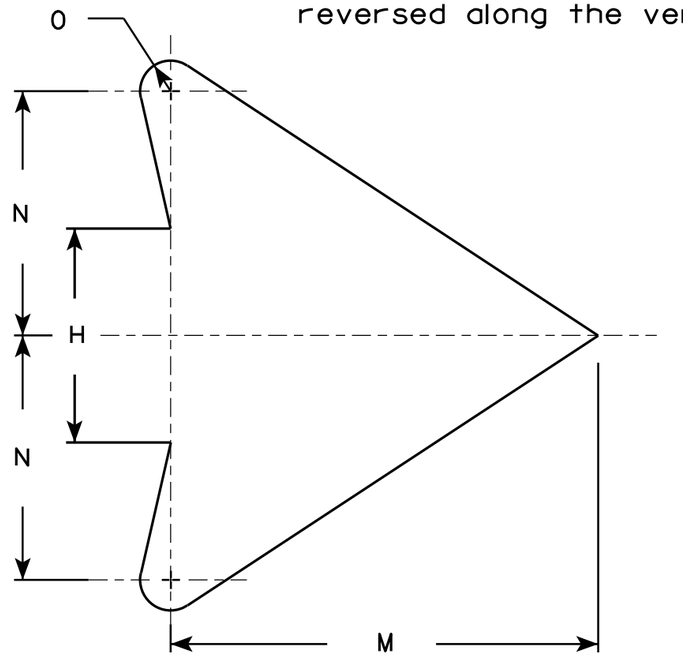
SHEET NO: 136 E

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.
4. W1-2L is the same as W1-2R except the arrow is reversed along the vertical centerline.



W1-2R



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	24		1 1/8	3/8	1/2		8 1/4	3 1/2	4 1/2	1 3/4	2 3/8	7 1/4	7	4	1/2												4.0
2S	30		1 3/8	1/2	5/8		10 1/4	4 3/8	5 5/8	2 1/4	3	9 1/8	8 3/4	5	5/8												6.25
2M	36		1 5/8	5/8	3/4		12 3/8	5 1/4	6 3/4	2 5/8	3 1/2	10 7/8	10 1/2	6	3/4												9.0
3	36		1 5/8	5/8	3/4		12 3/8	5 1/4	6 3/4	2 5/8	3 1/2	10 7/8	10 1/2	6	3/4												9.0
4	36		1 5/8	5/8	3/4		12 3/8	5 1/4	6 3/4	2 5/8	3 1/2	10 7/8	10 1/2	6	3/4												9.0
5	48		2 1/4	3/4	1		16 1/2	7	9	3 1/2	4 5/8	14 1/2	14	8	1												16.0

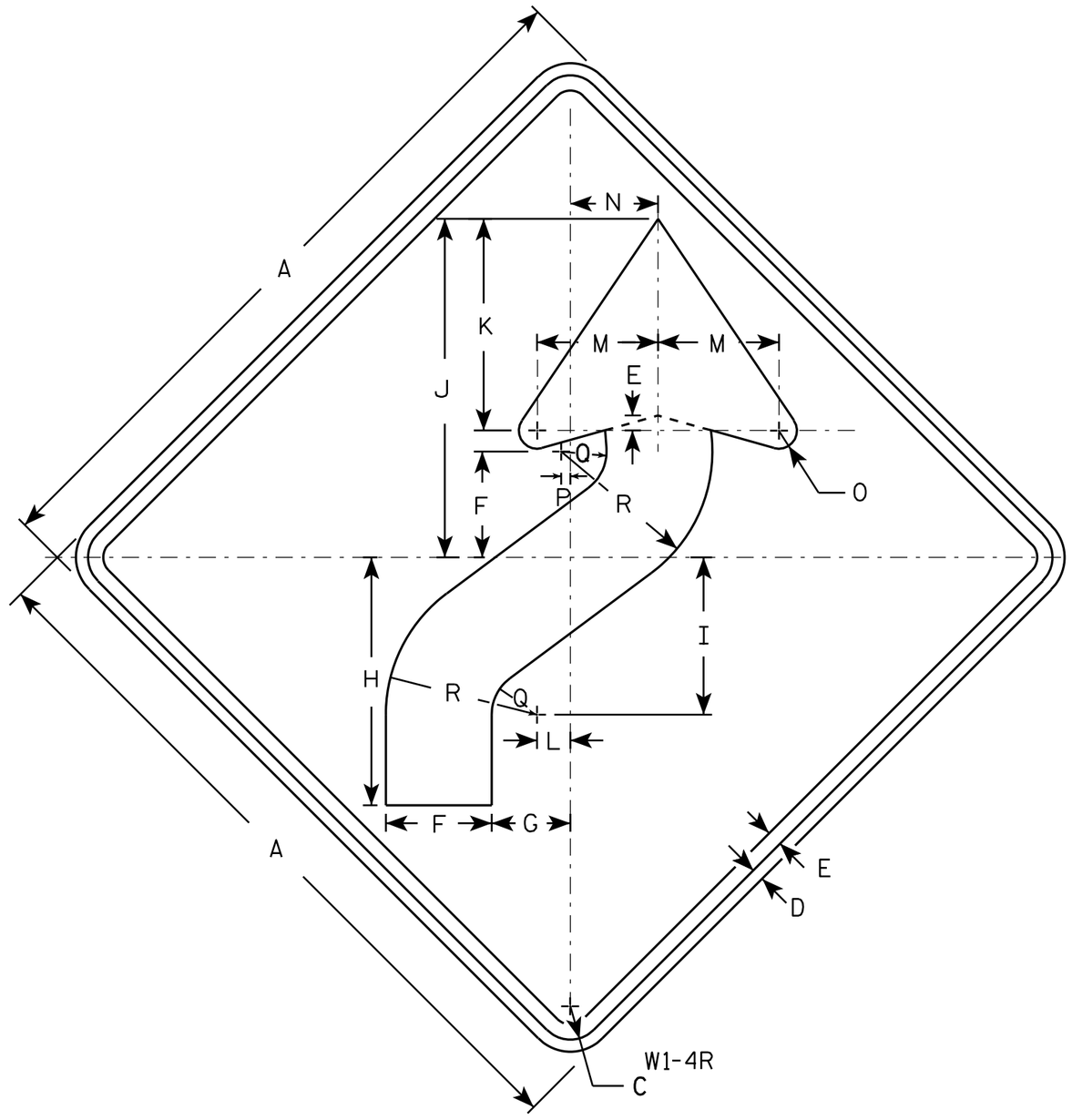
STANDARD SIGN
W1-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch for State Traffic Engineer

DATE 5/15/12 PLATE NO. W1-2.10

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 137	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.
4. W1-4L is the same as W1-4R except the arrow is reversed along the vertical centerline.

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	3 1/2	2 5/8	8 1/4	5 1/4	11 1/4	7	1 1/8	4	3	5/8	1/4	1 1/2	5									4.0
2S	30		1 3/8	1/2	5/8	4 3/8	3 1/4	10 1/4	6 1/2	14	8 3/4	1 3/8	5	3 5/8	3/4	3/8	1 7/8	6 1/4									6.25
2M	36		1 5/8	5/8	3/4	5 1/4	4	12 3/8	7 7/8	16 7/8	10 1/2	1 5/8	6	4 1/2	1	1/2	2 1/4	7 1/2									9.0
3	36		1 5/8	5/8	3/4	5 1/4	4	12 3/8	7 7/8	16 7/8	10 1/2	1 5/8	6	4 1/2	1	1/2	2 1/4	7 1/2									9.0
4	36		1 5/8	5/8	3/4	5 1/4	4	12 3/8	7 7/8	16 7/8	10 1/2	1 5/8	6	4 1/2	1	1/2	2 1/4	7 1/2									9.0
5	48		2 1/4	3/4	1	7	5 1/4	16 1/2	10 1/2	22 1/2	14	2 1/4	8	6	1 1/4	5/8	3	10									16.0

STANDARD SIGN

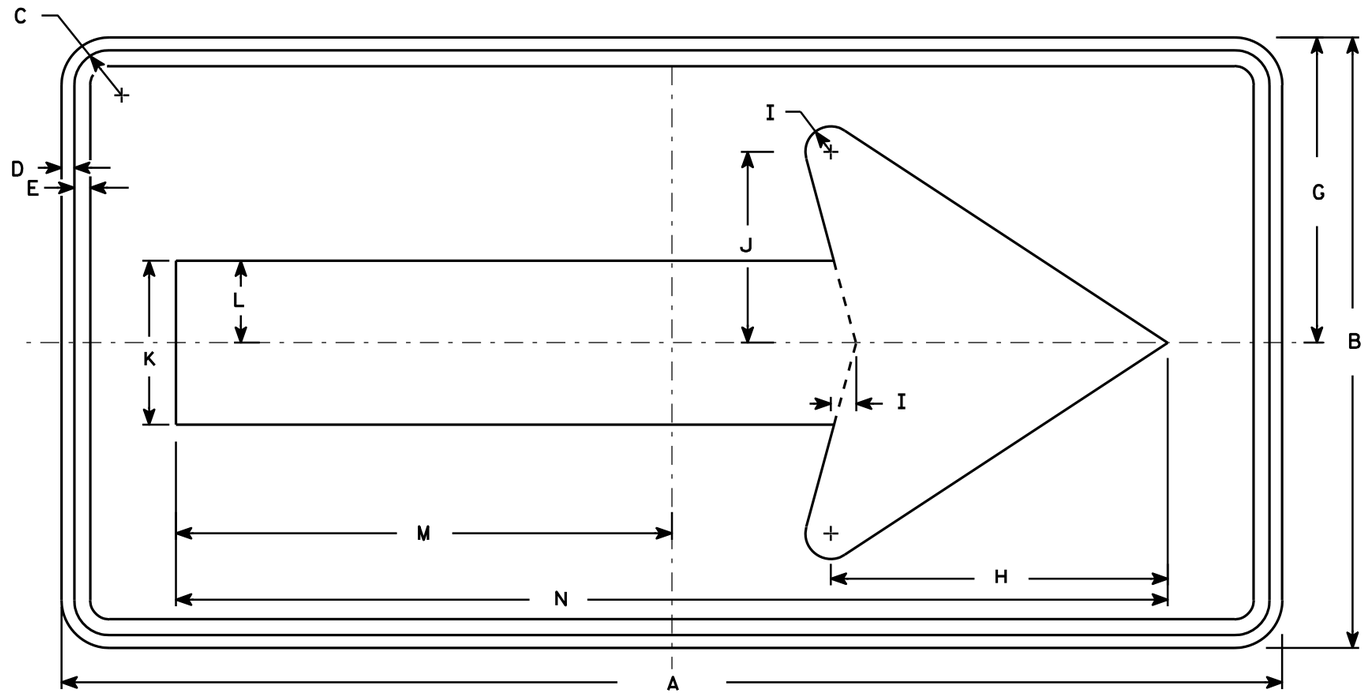
W1-4

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch for State Traffic Engineer

DATE 5/17/12 PLATE NO. W1-4.11

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 138 | E



W1-6

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	36	18	1 1/8	3/8	3/8		9	10	3/4	5 5/8	4 3/4	2 3/8	14 5/8	29 1/4													4.5
2S	48	24	1 3/8	1/2	5/8		12	13 1/4	1	7 1/2	6 1/2	3 1/4	19 1/2	39													8.0
2M	48	24	1 3/8	1/2	5/8		12	13 1/4	1	7 1/2	6 1/2	3 1/4	19 1/2	39													8.0
3	60	30	1 3/8	1/2	5/8		15	16 1/4	1 1/4	9 1/4	8	4	24 3/8	48 3/4													12.5
4	60	30	1 3/8	1/2	5/8		15	16 1/4	1 1/4	9 1/4	8	4	24 3/8	48 3/4													12.5
5	96	48	2 1/4	3/4	1		24	26 1/2	2	15	13	6 1/2	39	78													32.0

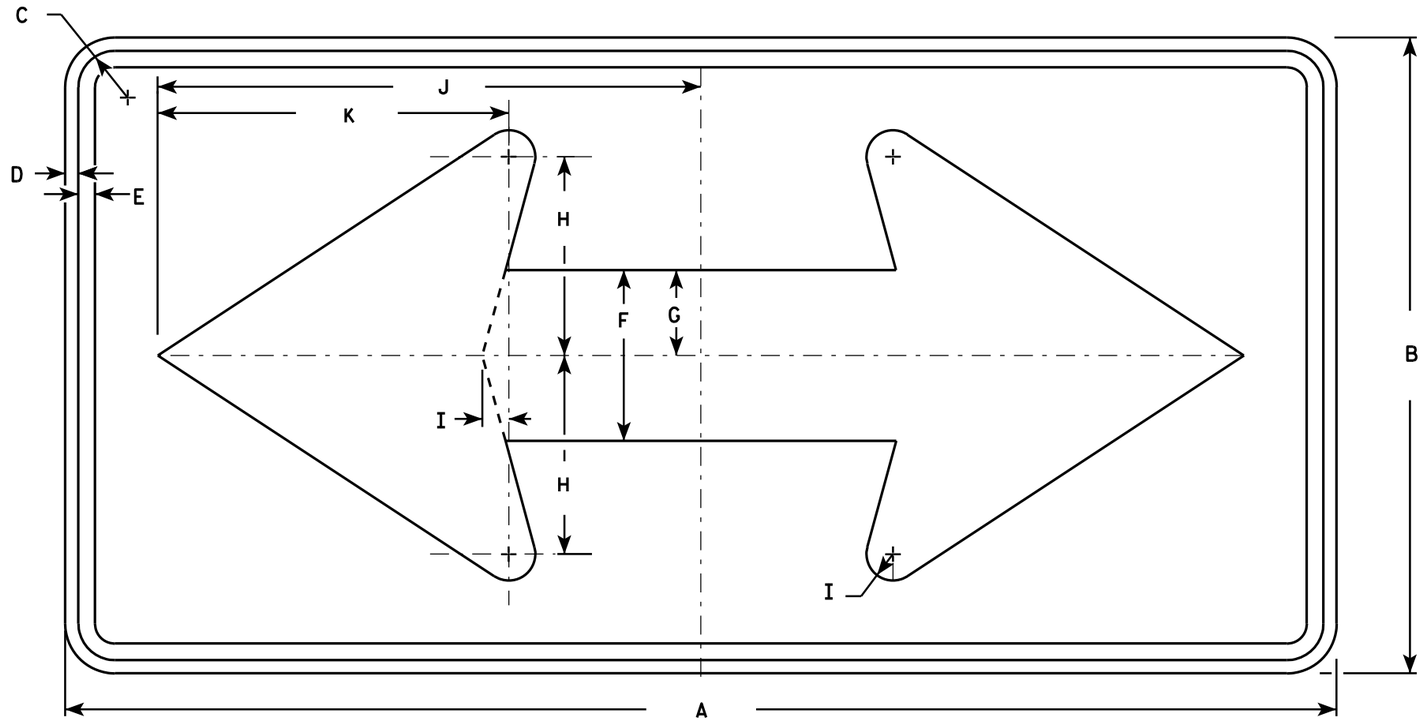
STANDARD SIGN
W1-6

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 6/7/10 PLATE NO. W1-6.8

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 139



W1-7

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	36	18	1 1/8	3/8	1/2	5	2 1/2	5 3/4	3/4	15 5/8	10 1/8																4.5
2S	48	24	1 3/8	1/2	5/8	6 1/2	3 1/4	7 1/2	1	20 1/2	13 1/4																8.0
2M	48	24	1 3/8	1/2	5/8	6 1/2	3 1/4	7 1/2	1	20 1/2	13 1/4																8.0
3	60	30	1 3/8	1/2	5/8	8	4	9 1/4	1 1/4	25 3/8	16 1/4																12.5
4	60	30	1 3/8	1/2	5/8	8	4	9 1/4	1 1/4	25 3/8	16 1/4																12.5
5	96	48	2 1/4	3/4	1	13	6 1/2	15	2	41	26 1/2																32.0

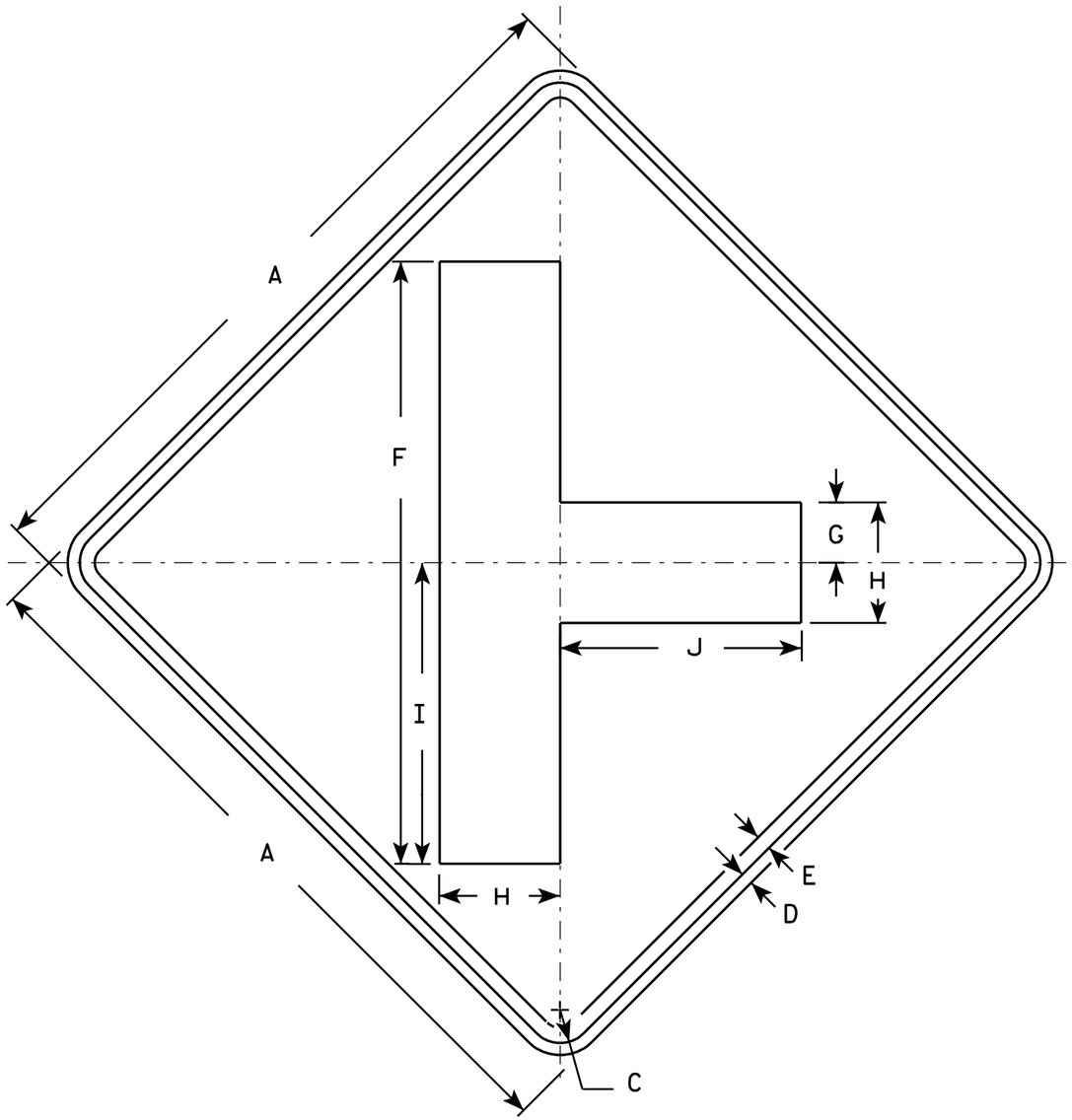
STANDARD SIGN
W1-7

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 6/7/10 PLATE NO. W1-7.7

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 140 | E



W2-2

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	20	2	4	10	8																	4.0
2S	30		1 3/8	1/2	5/8	25	2 1/2	5	12 1/2	10																	6.25
2M	30		1 3/8	1/2	5/8	25	2 1/2	5	12 1/2	10																	6.25
3	36		1 5/8	5/8	3/4	30	3	6	15	12																	9.0
4	48		2 1/4	3/4	1	40	4	8	20	16																	16.0
5																											

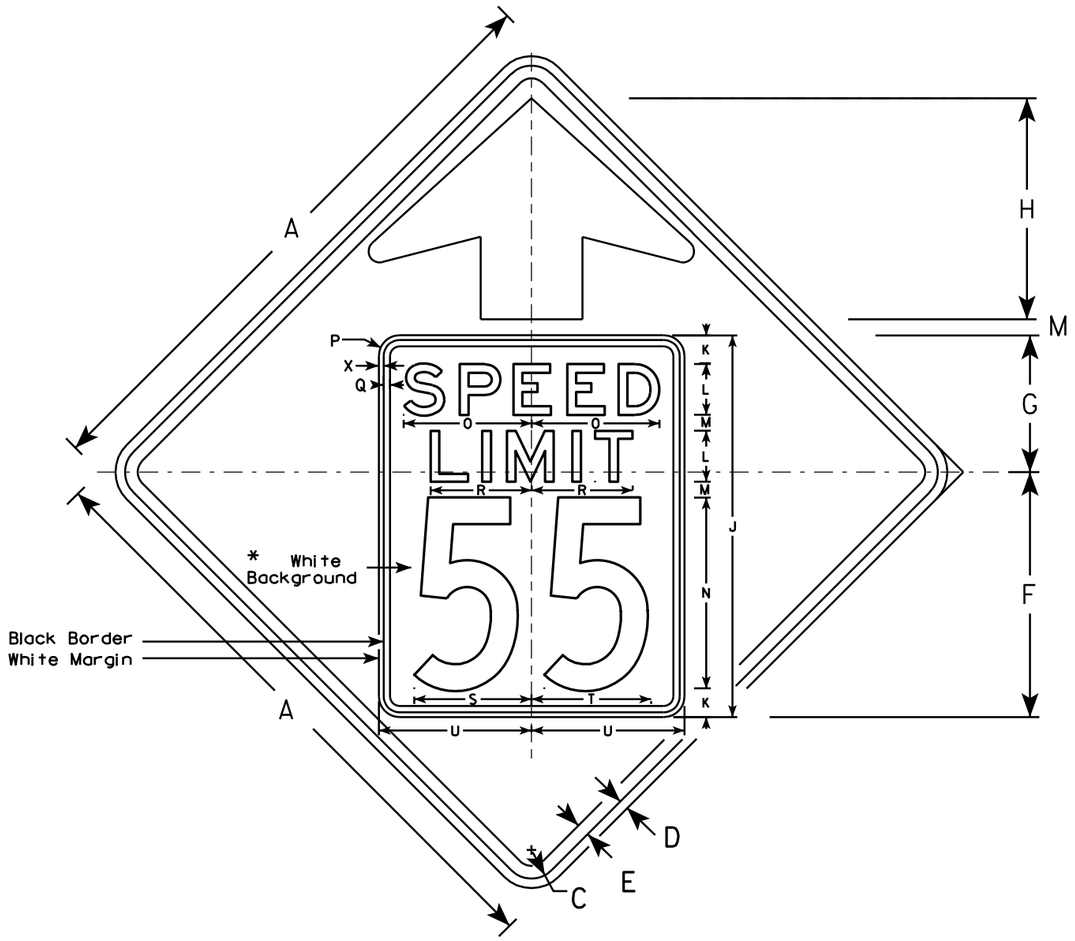
STANDARD SIGN
W2-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/29/12 PLATE NO. W2-2.6

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 141	E

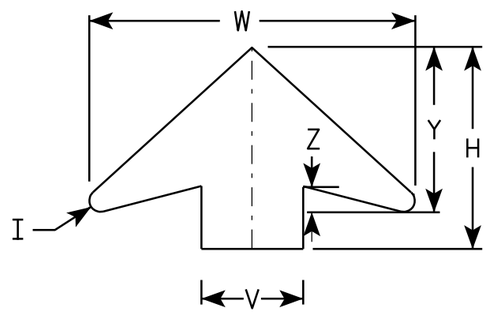


W3-5

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

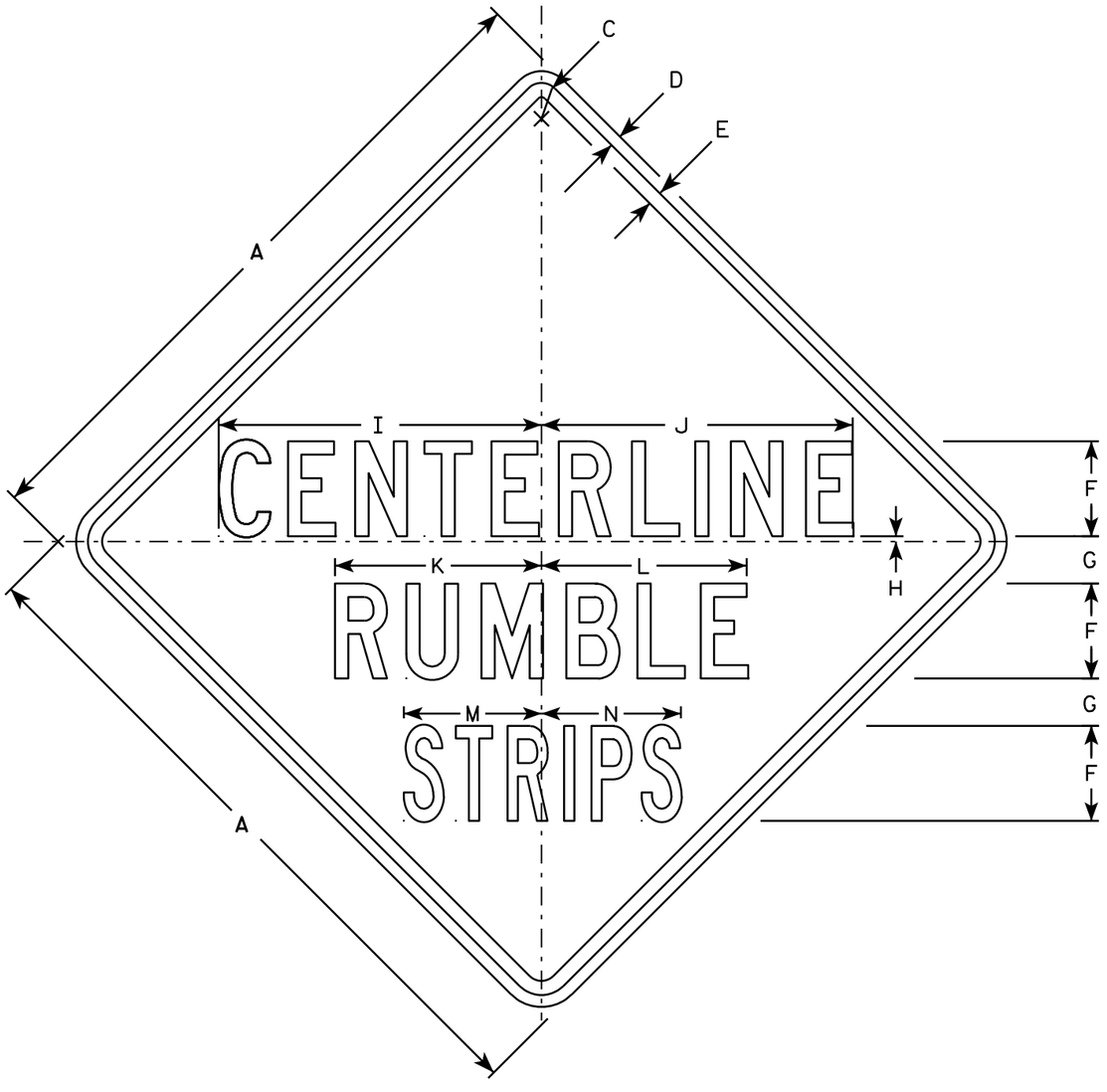
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

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

PROJECT NO:

SHEET NO: 142 E



W8-70

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 - 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 and 2 are Series C.
   Line 3 is Series B.

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	5	2 1/2	1/4	17	16 3/8	10 7/8	10 3/4	7 1/4	7 3/8													9.0
2M	36		1 5/8	5/8	3/4	5	2 1/2	1/4	17	16 3/8	10 7/8	10 3/4	7 1/4	7 3/8													9.0
3	36		1 5/8	5/8	3/4	5	2 1/2	1/4	17	16 3/8	10 7/8	10 3/4	7 1/4	7 3/8													9.0
4																											
5																											

STANDARD SIGN
W8-70

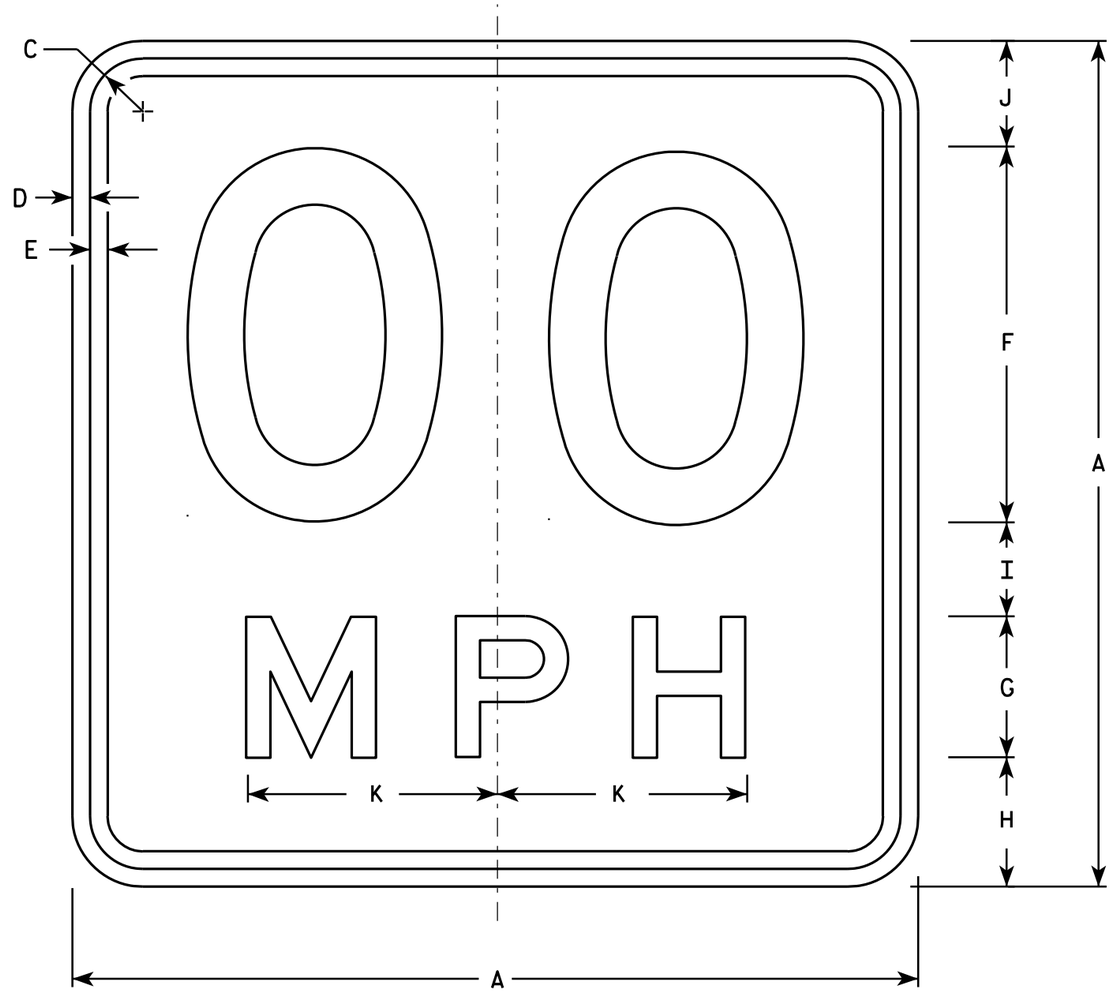
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 03/18/13 PLATE NO. W8-70.3

PROJECT NO:

SHEET NO: 143 E



W13-1

* For 30" x 30" Warning Signs, use 18" x 18" W13-1 signs.
For 36" x 36" Warning Signs, use 24" x 24" W13-1 signs.

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 - See Note 6
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 space about centerline to achieve proper balance.
6. Line 1 is Series D
   Line 2 is 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	18		1 1/8	3/8	3/8	8	3	2 3/4	2	2 1/4	5 3/8																2.25
*	2S	18		1 1/8	3/8	3/8	8	3	2 3/4	2	2 1/4	5 3/8																2.25
*	2M	18		1 1/8	3/8	3/8	8	3	2 3/4	2	2 1/4	5 3/8																2.25
	3	24		1 1/8	3/8	1/2	10	4	4	2 3/4	3 1/4	6 5/8																4.00
	4	36		1 5/8	5/8	3/4	16	6	5 1/2	4	4 1/2	10 5/8																9.00
	5	36		1 5/8	5/8	3/4	16	6	5 1/2	4	4 1/2	10 5/8																9.00

STANDARD SIGN
W13-1

WISCONSIN DEPT OF TRANSPORTATION

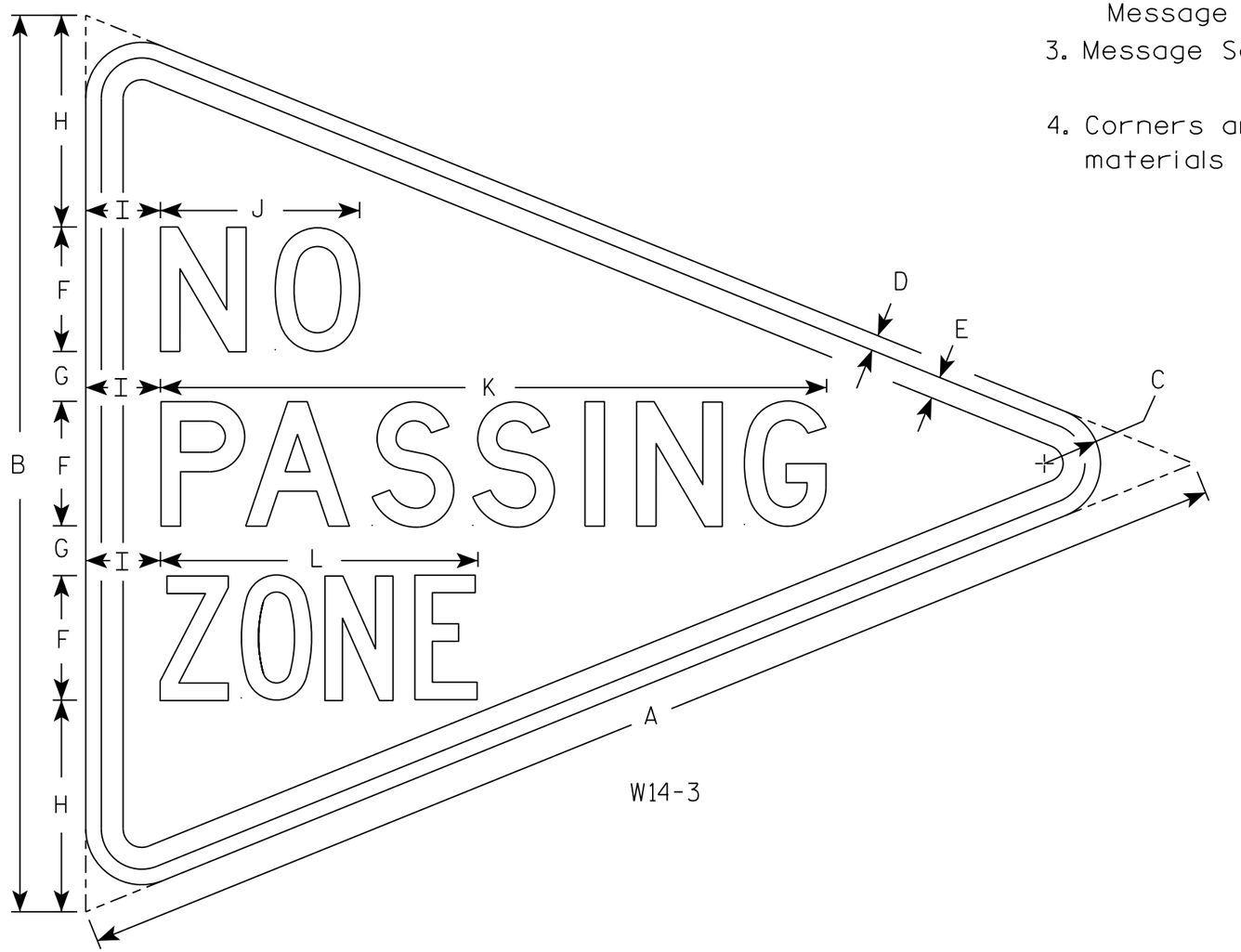
APPROVED Matthew R Rauch
For State Traffic Engineer

DATE 5/31/12 PLATE NO. W13-1.16

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 144 | 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: 145	E

GUARDRAIL

STA 53+46 - STA 58+44

STATION	DISTANCE	AREA (SF)			INCREMENTAL VOL (CY) (UNADJUSTED)			CUMULATIVE VOL (CY)			MASS ORDINATE
		CUT	SALVAGED/ UNUSABLE PAVEMENT MATERIAL	FILL	CUT NOTE 1	SALVAGED UNUSABLE PAVEMENT MATERIAL NOTE 2	FILL	CUT 1.00 NOTE 1	SALVAGED UNUSABLE PAVEMENT MATERIAL NOTE 2	EXPANDED FILL 1.35 NOTE 3	NOTE 5
53+46	0	5	5	5	0	0	0	0	0	0	0
53+50	4	4	5	8	1	1	1	1	1	2	-2
53+69	19	2	5	28	2	3	12	3	4	18	-20
53+89	20	5	5	47	3	4	28	6	8	56	-59
54+00	11	8	5	55	3	2	21	8	10	85	-87
54+16	16	9	5	68	5	3	37	13	13	134	-134
54+34	18	9	5	51	6	3	40	19	16	188	-185
54+41	7	10	5	41	2	1	11	22	18	203	-199
54+50	9	12	5	31	4	2	12	25	19	220	-214
54+59	9	15	5	22	5	2	9	30	21	232	-223
54+66	6	14	5	18	3	1	5	33	22	239	-228
54+85	19	13	5	14	10	4	11	43	26	254	-237
55+00	15	10	5	2	7	3	4	49	29	260	-239
55+25	25	10	5	8	10	5	5	59	33	266	-240
55+50	25	10	5	7	10	5	7	69	38	276	-245
56+00	50	10	5	11	18	9	17	87	47	298	-259
56+25	25	9	5	12	9	5	11	96	52	313	-269
56+50	25	10	5	39	9	5	24	104	56	345	-297
56+83	33	10	5	40	12	6	48	116	62	410	-356
56+92	10	10	5	44	4	2	15	120	64	431	-375
57+00	8	10	5	48	3	1	13	123	66	448	-391
57+08	8	10	5	52	3	1	14	126	67	467	-409
57+18	10	11	5	61	4	2	21	129	69	496	-435
57+32	15	12	5	74	6	3	37	136	72	545	-481
57+43	11	12	5	67	5	2	27	140	74	583	-516
57+50	7	12	5	58	3	1	17	143	75	605	-536
58+00	50	9	5	16	20	9	69	163	84	698	-619
58+06	6	8	5	12	2	1	3	165	85	703	-623
58+13	7	8	5	3	2	1	2	167	87	705	-625
58+44	30	7	5	5	8	6	5	175	92	712	-629
				COLUMN TOTALS	175	92	527				

NOTES:	
1 - CUT	CUT INCLUDES SALVAGED/UNUSABLE PAVEMENT MATERIAL
2 - SALVAGED/UNUSABLE PAVEMENT MATERIAL	SALVAGED/UNUSABLE PAVEMENT MATERIAL IS NOT SHOWN ON CROSS SECTIONS; REMOVE AND WASTE EXISTING AND TEMPORARY PAVEMENTS PRESENT IN BOTH CUT AND FILL SECTIONS; SALVAGED/UNUSABLE PAVEMENT MATERIAL INCLUDES ASPHALTIC PAVEMENTS
3 - EXPANDED FILL	((UNEXPANDED FILL - EXPANDED ROCK IN FILL) * FILL FACTOR); ROCK IS ONLY PRESENT NEAR HWY H ROAD AND SHOWN IN THAT EARTHWORK TABLE ONLY
4 - EXPANDED ROCK	(ROCK EXCAVATION * EXPANDED ROCK FACTOR); ROCK IS ONLY PRESENT NEAR HWY H ROAD AND SHOWN IN THAT EARTHWORK TABLE ONLY
5 - MASS ORDINATE	((CUT) - (EXPANDED FILL) - (SALVAGED/UNUSABLE PAVEMENT MATERIAL)); PLUS INDICATES AN EXCESS OF MATERIAL; MINUS INDICATES A SHORTAGE OF MATERIAL

CULVERTS

STA 64+40 - STA 67+00

STATION	DISTANCE	AREA (SF)			INCREMENTAL VOL (CY) (UNADJUSTED)			CUMULATIVE VOL (CY)			MASS ORDINATE
		CUT	SALVAGED/ UNUSABLE PAVEMENT MATERIAL	FILL	CUT NOTE 1	SALVAGED UNUSABLE PAVEMENT MATERIAL NOTE 2	FILL	CUT 1.00 NOTE 1	SALVAGED UNUSABLE PAVEMENT MATERIAL NOTE 2	EXPANDED FILL 1.35 NOTE 3	NOTE 5
64+40	0	6	5	3	0	0	0	0	0	0	0
64+50	10	7	5	10	2	2	2	2	2	3	-3
65+00	50	33	5	53	37	9	58	39	11	82	-53
65+25	25	28	5	118	28	5	79	68	16	188	-136
65+31	6	26	5	128	6	1	28	74	17	227	-169
65+50	19	40	5	74	23	3	70	97	20	321	-245
66+00	50	10	5	4	46	9	72	143	30	418	-305
66+50	50	80	5	1	84	9	4	227	39	424	-236
67+00	50	3	5	5	77	9	6	303	48	433	-177
			COLUMN TOTALS		303	48	320				

CULVERT

STA 87+00 - STA 89+40

STATION	DISTANCE	AREA (SF)			INCREMENTAL VOL (CY) (UNADJUSTED)			CUMULATIVE VOL (CY)			MASS ORDINATE
		CUT	SALVAGED/ UNUSABLE PAVEMENT MATERIAL	FILL	CUT NOTE 1	SALVAGED UNUSABLE PAVEMENT MATERIAL NOTE 2	FILL	CUT 1.00 NOTE 1	SALVAGED UNUSABLE PAVEMENT MATERIAL NOTE 2	EXPANDED FILL 1.35 NOTE 3	NOTE 5
87+00	0	6	5	3	0	0	0	0	0	0	0
87+07	7	7	5	4	2	1	1	2	1	1	-1
87+50	43	10	5	13	14	8	14	16	9	20	-13
88+00	50	13	5	71	22	9	78	38	19	125	-106
88+50	50	14	5	61	25	9	122	62	28	290	-255
88+75	25	19	5	30	15	5	42	78	32	347	-302
89+00	25	21	5	16	18	5	21	96	37	375	-317
89+35	35	10	5	7	21	7	15	116	44	396	-323
89+40	5	5	5	3	1	1	1	118	44	397	-324
			COLUMN TOTALS		118	44	294				

NOTES:	
1 - CUT	CUT INCLUDES SALVAGED/UNUSABLE PAVEMENT MATERIAL
2 - SALVAGED/UNUSABLE PAVEMENT MATERIAL	SALVAGED/UNUSABLE PAVEMENT MATERIAL IS NOT SHOWN ON CROSS SECTIONS; REMOVE AND WASTE EXISTING AND TEMPORARY PAVEMENTS PRESENT INBOTH CUT AND FILL SECTIONS; SALVAGED/UNUSABLE PAVEMENT MATERIAL INCLUDES ASPHALTIC PAVEMENTS
3 - EXPANDED FILL	((UNEXPANDED FILL - EXPANDED ROCK IN FILL) * FILL FACTOR); ROCK IS ONLY PRESENT NEAR HWY H ROAD AND SHOWN IN THAT EARTHWORK TABL ONLY
4 - EXPANDED ROCK	(ROCK EXCAVATION * EXPANDED ROCK FACTOR); ROCK IS ONLY PRESENT NEAR HWY H ROAD AND SHOWN IN THAT EARTHWORK TABLE ONLY
5 - MASS ORDINATE	((CUT) - (EXPANDED FILL) - (SALVAGED/UNUSABLE PAVEMENT MATERIAL)); PLUS INDICATES AN EXCESS OF MATERIAL; MINUS INDICATES A SHORAGE OF MATERIAL

CULVERT

STA 106+19 - STA 108+81

STATION	DISTANCE	AREA (SF)			INCREMENTAL VOL (CY) (UNADJUSTED)			CUMULATIVE VOL (CY)			MASS ORDINATE
		CUT	SALVAGED/ UNUSABLE PAVEMENT MATERIAL	FILL	CUT NOTE 1	SALVAGED UNUSABLE PAVEMENT MATERIAL NOTE 2	FILL	CUT 1.00 NOTE 1	SALVAGED UNUSABLE PAVEMENT MATERIAL NOTE 2	EXPANDED FILL 1.35 NOTE 3	NOTE 5
106+19	0	5	5	2	0	0	0	0	0	0	0
106+50	31	4	5	9	5	6	6	5	6	8	-9
107+00	50	32	5	29	32	9	35	37	15	55	-32
107+50	50	36	5	99	63	9	118	100	24	214	-138
108+00	50	20	5	7	52	9	98	151	33	346	-228
108+50	50	8	5	6	26	9	12	177	43	363	-228
108+81	31	7	5	2	8	6	4	185	48	369	-231
			COLUMN TOTALS		185	48	273				

CULVERT

STA 145+50 - STA 146+50

STATION	DISTANCE	AREA (SF)			INCREMENTAL VOL (CY) (UNADJUSTED)			CUMULATIVE VOL (CY)			MASS ORDINATE
		CUT	SALVAGED/ UNUSABLE PAVEMENT MATERIAL	FILL	CUT NOTE 1	SALVAGED UNUSABLE PAVEMENT MATERIAL NOTE 2	FILL	CUT 1.00 NOTE 1	SALVAGED UNUSABLE PAVEMENT MATERIAL NOTE 2	EXPANDED FILL 1.35 NOTE 3	NOTE 5
145+50	0	6	5	2	0	0	0	0	0	0	0
145+75	25	13	5	29	9	5	14	9	5	19	-15
146+00	25	44	5	58	26	5	40	35	9	74	-48
146+25	25	34	5	21	36	5	37	71	14	124	-66
146+50	25	6	5	2	18	5	11	90	19	139	-67
			COLUMN TOTALS		90	19	103				

NOTES:	
1 - CUT	CUT INCLUDES SALVAGED/UNUSABLE PAVEMENT MATERIAL
2 - SALVAGED/UNUSABLE PAVEMENT MATERIAL	SALVAGED/UNUSABLE PAVEMENT MATERIAL IS NOT SHOWN ON CROSS SECTIONS; REMOVE AND WASTE EXISTING AND TEMPORARY PAVEMENTS PRESENT INBOTH CUT AND FILL SECTIONS; SALVAGED/UNUSABLE PAVEMENT MATERIAL INCLUDES ASPHALTIC PAVEMENTS
3 - EXPANDED FILL	((UNEXPANDED FILL - EXPANDED ROCK IN FILL) * FILL FACTOR); ROCK IS ONLY PRESENT NEAR HWY H ROAD AND SHOWN IN THAT EARTHWORK TABL ONLY
4 - EXPANDED ROCK	(ROCK EXCAVATION * EXPANDED ROCK FACTOR); ROCK IS ONLY PRESENT NEAR HWY H ROAD AND SHOWN IN THAT EARTHWORK TABLE ONLY
5 - MASS ORDINATE	((CUT) - (EXPANDED FILL) - (SALVAGED/UNUSABLE PAVEMENT MATERIAL)); PLUS INDICATES AN EXCESS OF MATERIAL; MINUS INDICATES A SHORAGE OF MATERIAL

CULVERTS

STA 207+00 - STA 207+75

STATION	DISTANCE	AREA (SF)			INCREMENTAL VOL (CY) (UNADJUSTED)			CUMULATIVE VOL (CY)			MASS ORDINATE
		CUT	SALVAGED/ UNUSABLE PAVEMENT MATERIAL	FILL	CUT NOTE 1	SALVAGED UNUSABLE PAVEMENT MATERIAL NOTE 2	FILL	CUT 1.00 NOTE 1	SALVAGED UNUSABLE PAVEMENT MATERIAL NOTE 2	EXPANDED FILL 1.35 NOTE 3	NOTE 5
207+00	0	6	5	3	0	0	0	0	0	0	0
207+25	25	25	5	28	14	5	14	14	5	19	-9
207+50	25	37	5	3	29	5	14	43	9	38	-4
207+75	25	7	5	1	21	5	2	64	14	41	9
			COLUMN TOTALS		64	14	30				

CTH J TURN LANE

STA 272+00 - STA 275+61

STATION	DISTANCE	AREA (SF)			INCREMENTAL VOL (CY) (UNADJUSTED)			CUMULATIVE VOL (CY)			MASS ORDINATE
		CUT	SALVAGED/ UNUSABLE PAVEMENT MATERIAL	FILL	CUT NOTE 1	SALVAGED UNUSABLE PAVEMENT MATERIAL NOTE 2	FILL	CUT 1.00 NOTE 1	SALVAGED UNUSABLE PAVEMENT MATERIAL NOTE 2	EXPANDED FILL 1.35 NOTE 3	NOTE 5
272+00	0	29	5	1	0	0	0	0	0	0	0
272+13	13	29	6	1	14	3	0	14	3	0	11
272+50	38	30	7	1	41	9	1	55	12	2	41
273+00	50	18	8	3	45	14	4	99	25	7	67
273+02	2	19	8	3	1	1	0	101	26	7	68
273+50	48	24	8	45	38	14	42	139	40	64	35
273+61	11	25	8	44	10	3	18	149	44	89	17
274+00	39	26	8	14	37	11	41	187	55	145	-13
274+50	50	30	8	4	52	15	16	239	70	167	2
275+00	50	33	8	2	58	15	5	297	85	174	38
275+50	50	63	8	0	89	15	2	386	100	176	111
275+61	11	57	8	0	25	3	0	411	103	176	132
			COLUMN TOTALS		411	103	130				

NOTES:	
1 - CUT	CUT INCLUDES SALVAGED/UNUSABLE PAVEMENT MATERIAL
2 - SALVAGED/UNUSABLE PAVEMENT MATERIAL	SALVAGED/UNUSABLE PAVEMENT MATERIAL IS NOT SHOWN ON CROSS SECTIONS; REMOVE AND WASTE EXISTING AND TEMPORARY PAVEMENTS PRESENT INBOTH CUT AND FILL SECTIONS; SALVAGED/UNUSABLE PAVEMENT MATERIAL INCLUDES ASPHALTIC PAVEMENTS
3 - EXPANDED FILL	((UNEXPANDED FILL - EXPANDED ROCK IN FILL) * FILL FACTOR); ROCK IS ONLY PRESENT NEAR HWY H ROAD AND SHOWN IN THAT EARTHWORK TABL ONLY
4 - EXPANDED ROCK	(ROCK EXCAVATION * EXPANDED ROCK FACTOR); ROCK IS ONLY PRESENT NEAR HWY H ROAD AND SHOWN IN THAT EARTHWORK TABLE ONLY
5 - MASS ORDINATE	((CUT) - (EXPANDED FILL) - (SALVAGED/UNUSABLE PAVEMENT MATERIAL)); PLUS INDICATES AN EXCESS OF MATERIAL; MINUS INDICATES A SHORAGE OF MATERIAL

CULVERT

STA 294+25 - STA 295+75

STATION	DISTANCE	AREA (SF)			INCREMENTAL VOL (CY) (UNADJUSTED)			CUMULATIVE VOL (CY)			MASS ORDINATE
		CUT	SALVAGED/ UNUSABLE PAVEMENT MATERIAL	FILL	CUT NOTE 1	SALVAGED UNUSABLE PAVEMENT MATERIAL NOTE 2	FILL	CUT 1.00 NOTE 1	SALVAGED UNUSABLE PAVEMENT MATERIAL NOTE 2	EXPANDED FILL 1.35 NOTE 3	NOTE 5
294+25	0	7	5	3	0	0	0	0	0	0	0
294+50	25	7	5	13	6	5	8	6	5	10	-9
294+75	25	13	5	26	9	5	18	15	9	35	-28
295+00	25	20	5	83	16	5	50	31	14	103	-85
295+25	25	20	5	87	19	5	79	50	19	209	-178
295+50	25	10	5	53	14	5	65	63	23	297	-257
295+75	25	8	5	2	9	5	26	72	28	332	-288
			COLUMN TOTALS		72	28	246				

GUARDRAIL

STA 395+61 - STA 401+00

STATION	DISTANCE	AREA (SF)			INCREMENTAL VOL (CY) (UNADJUSTED)			CUMULATIVE VOL (CY)			MASS ORDINATE
		CUT	SALVAGED/ UNUSABLE PAVEMENT MATERIAL	FILL	CUT NOTE 1	SALVAGED UNUSABLE PAVEMENT MATERIAL NOTE 2	FILL	CUT 1.00 NOTE 1	SALVAGED UNUSABLE PAVEMENT MATERIAL NOTE 2	EXPANDED FILL 1.35 NOTE 3	NOTE 5
395+61	0	11	5	34	0	0	0	0	0	0	0
395+73	12	10	5	31	5	2	14	5	2	19	-17
395+98	25	9	5	13	9	5	20	13	7	47	-40
396+00	2	9	5	10	1	0	1	14	7	48	-41
396+23	23	8	5	1	7	4	5	21	11	54	-44
396+50	27	8	5	0	8	5	0	29	16	54	-41
397+00	50	6	5	2	13	9	2	43	26	58	-41
397+50	50	6	5	3	11	9	5	54	35	64	-45
398+00	50	6	5	2	11	9	4	65	44	70	-49
398+50	50	6	5	2	12	9	4	76	53	76	-53
399+00	50	6	5	2	12	9	4	88	63	81	-56
399+50	50	6	5	2	12	9	4	100	72	86	-59
399+73	23	6	5	3	5	4	2	105	76	89	-61
399+98	25	7	5	21	6	5	11	111	81	104	-74
400+00	2	7	5	21	0	0	1	111	81	106	-76
400+23	23	7	5	20	6	4	18	117	85	130	-98
400+50	27	8	5	10	8	5	14	125	90	149	-115
401+00	50	8	5	1	15	9	9	139	100	162	-122
			COLUMN TOTALS		139	100	120				

NOTES:	
1 - CUT	CUT INCLUDES SALVAGED/UNUSABLE PAVEMENT MATERIAL
2 - SALVAGED/UNUSABLE PAVEMENT MATERIAL	SALVAGED/UNUSABLE PAVEMENT MATERIAL IS NOT SHOWN ON CROSS SECTIONS; REMOVE AND WASTE EXISTING AND TEMPORARY PAVEMENTS PRESENT INBOTH CUT AND FILL SECTIONS; SALVAGED/UNUSABLE PAVEMENT MATERIAL INCLUDES ASPHALTIC PAVEMENTS
3 - EXPANDED FILL	((UNEXPANDED FILL - EXPANDED ROCK IN FILL) * FILL FACTOR); ROCK IS ONLY PRESENT NEAR HWY H ROAD AND SHOWN IN THAT EARTHWORK TABL ONLY
4 - EXPANDED ROCK	(ROCK EXCAVATION * EXPANDED ROCK FACTOR); ROCK IS ONLY PRESENT NEAR HWY H ROAD AND SHOWN IN THAT EARTHWORK TABLE ONLY
5 - MASS ORDINATE	((CUT) - (EXPANDED FILL) - (SALVAGED/UNUSABLE PAVEMENT MATERIAL)); PLUS INDICATES AN EXCESS OF MATERIAL; MINUS INDICATES A SHORAGE OF MATERIAL

CULVERT

STA 420+00 - STA 422+00

STATION	DISTANCE	AREA (SF)			INCREMENTAL VOL (CY) (UNADJUSTED)			CUMULATIVE VOL (CY)			MASS ORDINATE
		CUT	SALVAGED/ UNUSABLE PAVEMENT MATERIAL	FILL	CUT NOTE 1	SALVAGED UNUSABLE PAVEMENT MATERIAL NOTE 2	FILL	CUT 1.00 NOTE 1	SALVAGED UNUSABLE PAVEMENT MATERIAL NOTE 2	EXPANDED FILL 1.35 NOTE 3	NOTE 5
420+00	0	9	5	10	0	0	0	0	0	0	0
420+25	25	12	5	11	10	5	9	10	5	13	-8
420+50	25	17	5	26	13	5	17	23	9	35	-22
420+75	25	25	5	53	19	5	37	42	14	85	-56
421+00	25	17	5	91	19	5	67	62	19	175	-132
421+09	9	8	5	126	4	2	36	66	20	224	-178
421+25	16	8	5	92	5	3	64	71	23	310	-263
421+50	25	7	5	37	7	5	60	78	28	391	-341
421+75	25	6	5	29	6	5	31	84	32	432	-381
422+00	25	5	5	18	5	5	22	89	37	462	-410
				COLUMN TOTALS	89	37	342				

HWY H RD

STA 428+00 - STA 435+85

STATION	DISTANCE	AREA (SF)				INCREMENTAL VOL (CY) (UNADJUSTED)				CUMULATIVE VOL (CY)				MASS ORDINATE
		CUT	SALVAGED/ UNUSABLE PAVEMENT MATERIAL	FILL	ROCK EXC	CUT NOTE 1	SALVAGED UNUSABLE PAVEMENT MATERIAL NOTE 2	FILL	ROCK EXC	CUT 1.00 NOTE 1	SALVAGED UNUSABLE PAVEMENT MATERIAL NOTE 2	EXPANDED FILL 1.35 NOTE 3	EXPANDED ROCK 1.10 NOTE 4	NOTE 5
428+00	0	8	5	7	0	0	0	0	0	0	0	0	0	0
429+00	100	27	5	6	0	65	19	25	0	65	19	34	0	12
430+00	100	99	5	13	0	234	19	36	0	298	37	83	0	178
431+00	100	109	5	6	0	386	19	36	0	684	56	131	0	497
431+72	72	192	5	3	0	402	13	12	0	1,086	69	147	0	870
432+00	28	149	5	7	0	177	5	5	0	1,263	74	153	0	1,035
433+00	100	495	5	3	42	1,193	19	19	78	2,455	93	63	86	2,300
434+00	100	820	5	2	98	2,436	19	10	258	4,892	111	-307	370	5,088
435+00	100	322	5	7	98	2,115	19	17	361	7,007	130	-820	767	7,697
435+85	85	11	5	0	0	524	16	12	153	7,531	145	-1,032	936	8,417
				COLUMN TOTALS		7,531	145	171	851					

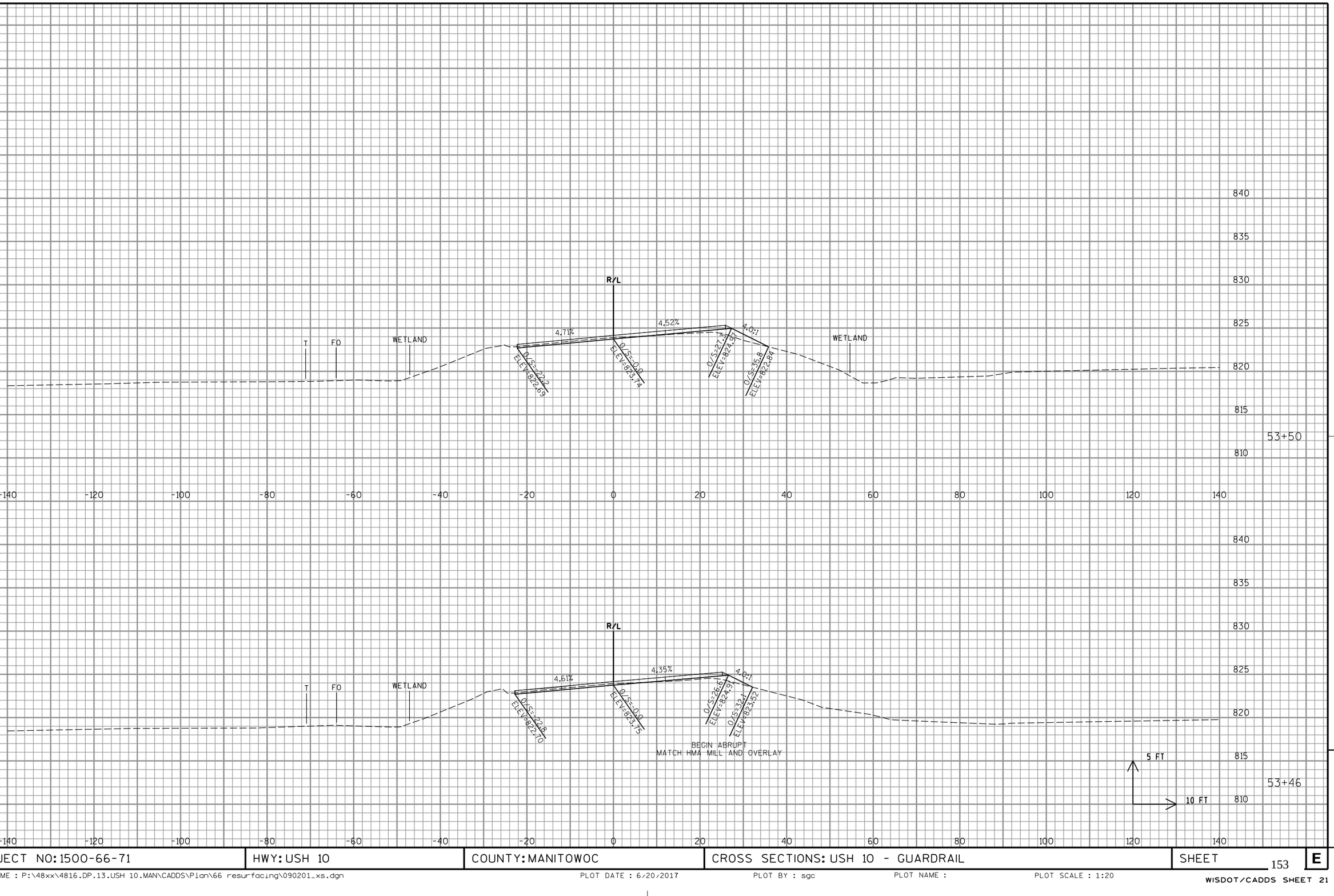
NOTES:	
1 - CUT	CUT INCLUDES SALVAGED/UNUSABLE PAVEMENT MATERIAL
2 - SALVAGED/UNUSABLE PAVEMENT MATERIAL	SALVAGED/UNUSABLE PAVEMENT MATERIAL IS NOT SHOWN ON CROSS SECTIONS; REMOVE AND WASTE EXISTING AND TEMPORARY PAVEMENTS PRESENT INBOTH CUT AND FILL SECTIONS; SALVAGED/UNUSABLE PAVEMENT MATERIAL INCLUDES ASPHALTIC PAVEMENTS
3 - EXPANDED FILL	((UNEXPANDED FILL - EXPANDED ROCK IN FILL) * FILL FACTOR); ROCK IS ONLY PRESENT NEAR HWY H ROAD AND SHOWN IN THAT EARTHWORK TABL ONLY
4 - EXPANDED ROCK	(ROCK EXCAVATION * EXPANDED ROCK FACTOR); ROCK IS ONLY PRESENT NEAR HWY H ROAD AND SHOWN IN THAT EARTHWORK TABLE ONLY
5 - MASS ORDINATE	((CUT) - (EXPANDED FILL) - (SALVAGED/UNUSABLE PAVEMENT MATERIAL)); PLUS INDICATES AN EXCESS OF MATERIAL; MINUS INDICATES A SHORAGE OF MATERIAL

CTH T

STA 437+00 - STA 446+00

STATION	DISTANCE	AREA (SF)			INCREMENTAL VOL (CY) (UNADJUSTED)			CUMULATIVE VOL (CY)			MASS ORDINATE
		CUT	SALVAGED/ UNUSABLE PAVEMENT MATERIAL	FILL	CUT NOTE 1	SALVAGED UNUSABLE PAVEMENT MATERIAL NOTE 2	FILL	CUT 1.00 NOTE 1	SALVAGED UNUSABLE PAVEMENT MATERIAL NOTE 2	EXPANDED FILL 1.35 NOTE 3	NOTE 5
437+00	0	12	5	0	0	0	0	0	0	0	0
438+00	100	6	5	6	32	19	12	32	19	16	-2
439+00	100	7	5	35	24	19	77	56	37	120	-101
440+00	100	7	5	123	26	19	293	82	56	516	-490
441+00	100	7	5	26	26	19	276	108	74	889	-855
442+00	100	6	5	2	25	19	51	133	93	958	-918
443+00	100	6	5	6	23	19	15	156	111	979	-933
444+00	100	7	5	2	25	19	16	181	130	1,000	-948
445+00	100	7	5	2	26	19	9	207	148	1,012	-953
446+00	100	6	5	1	24	19	7	231	167	1,021	-957
			COLUMN TOTALS		231	167	757				

NOTES:	
1 - CUT	CUT INCLUDES SALVAGED/UNUSABLE PAVEMENT MATERIAL
2 - SALVAGED/UNUSABLE PAVEMENT MATERIAL	SALVAGED/UNUSABLE PAVEMENT MATERIAL IS NOT SHOWN ON CROSS SECTIONS; REMOVE AND WASTE EXISTING AND TEMPORARY PAVEMENTS PRESENT INBOTH CUT AND FILL SECTIONS; SALVAGED/UNUSABLE PAVEMENT MATERIAL INCLUDES ASPHALTIC PAVEMENTS
3 - EXPANDED FILL	((UNEXPANDED FILL - EXPANDED ROCK IN FILL) * FILL FACTOR); ROCK IS ONLY PRESENT NEAR HWY H ROAD AND SHOWN IN THAT EARTHWORK TABL ONLY
4 - EXPANDED ROCK	(ROCK EXCAVATION * EXPANDED ROCK FACTOR); ROCK IS ONLY PRESENT NEAR HWY H ROAD AND SHOWN IN THAT EARTHWORK TABLE ONLY
5 - MASS ORDINATE	((CUT) - (EXPANDED FILL) - (SALVAGED/UNUSABLE PAVEMENT MATERIAL)); PLUS INDICATES AN EXCESS OF MATERIAL; MINUS INDICATES A SHORAGE OF MATERIAL



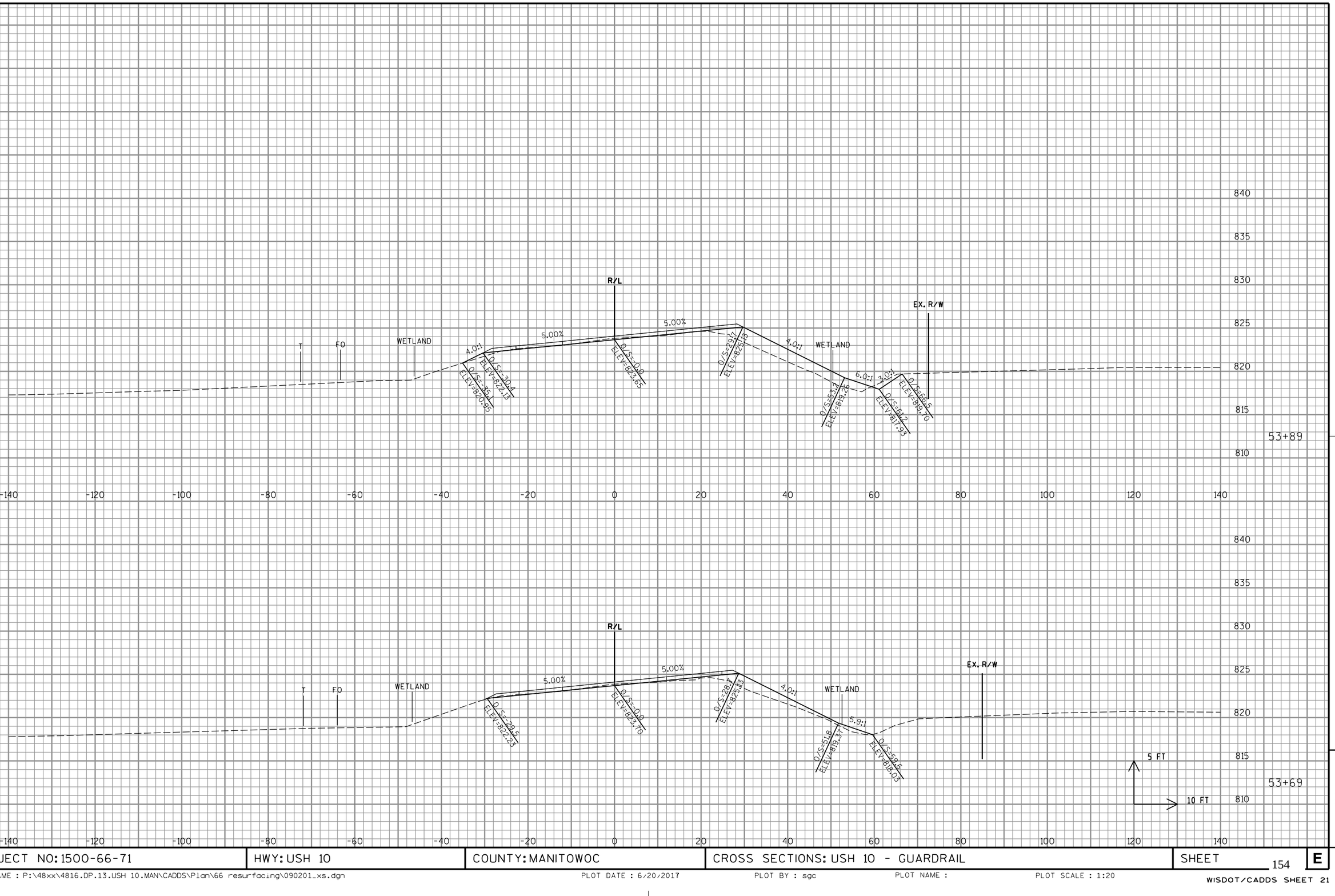
9

9

PROJECT NO: 1500-66-71	HWY: USH 10	COUNTY: MANITOWOC	CROSS SECTIONS: USH 10 - GUARDRAIL	SHEET 153	E

FILE NAME : P:\48xx\4816.DP.13.USH 10.MAN\CADDS\Plan\66 resurfacing\090201_xs.dgn PLOT DATE : 6/20/2017 PLOT BY : sgc PLOT NAME : PLOT SCALE : 1:20

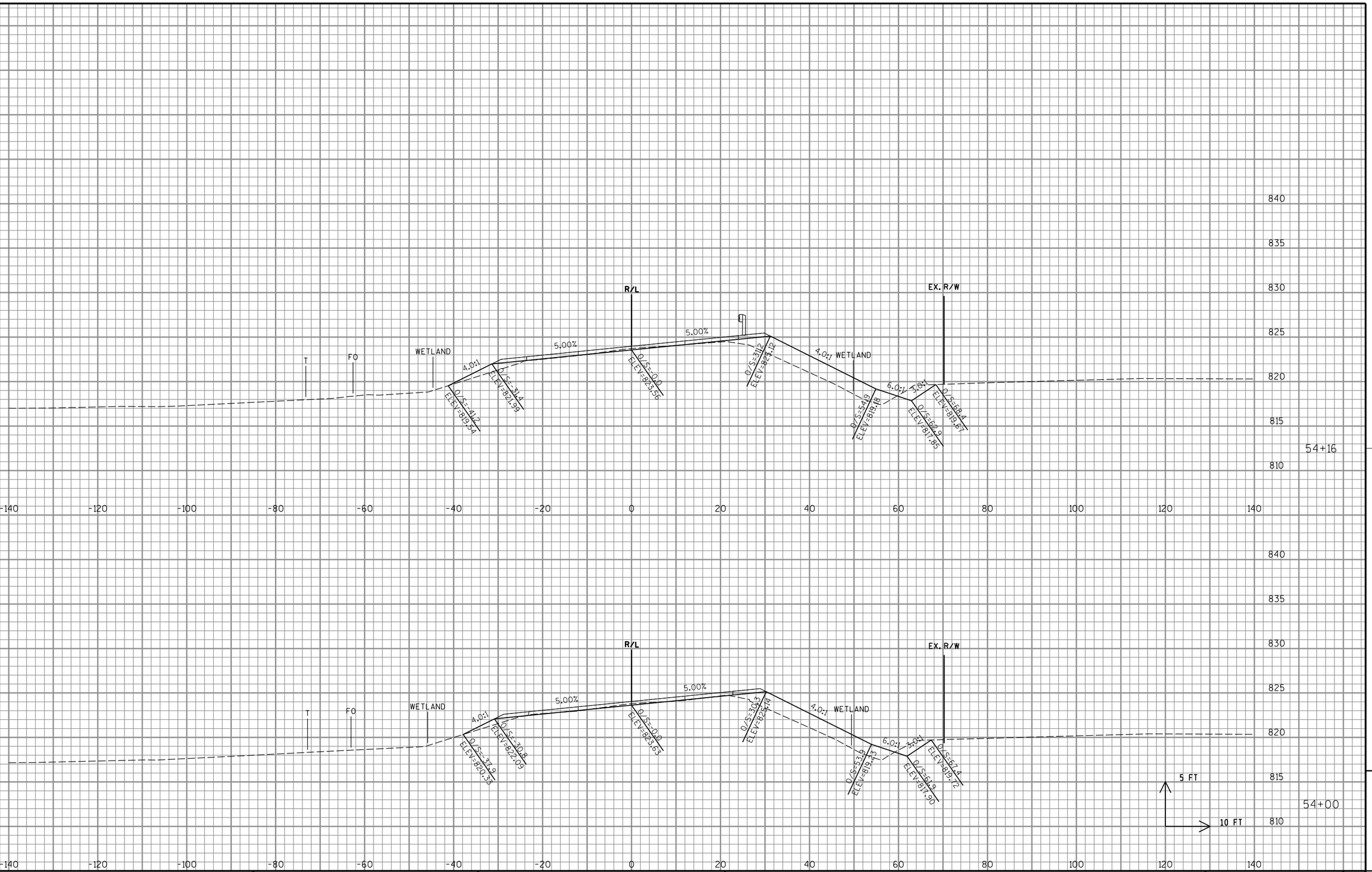
WISDOT/CADDS SHEET 21



PROJECT NO: 1500-66-71	HWY: USH 10	COUNTY: MANITOWOC	CROSS SECTIONS: USH 10 - GUARDRAIL	SHEET 154	E

FILE NAME : P:\48xx\4816.DP.13.USH 10.MAN\CADDS\Plan\66 resurfacing\090201_xs.dgn PLOT DATE : 6/20/2017 PLOT BY : sgc PLOT NAME : PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21

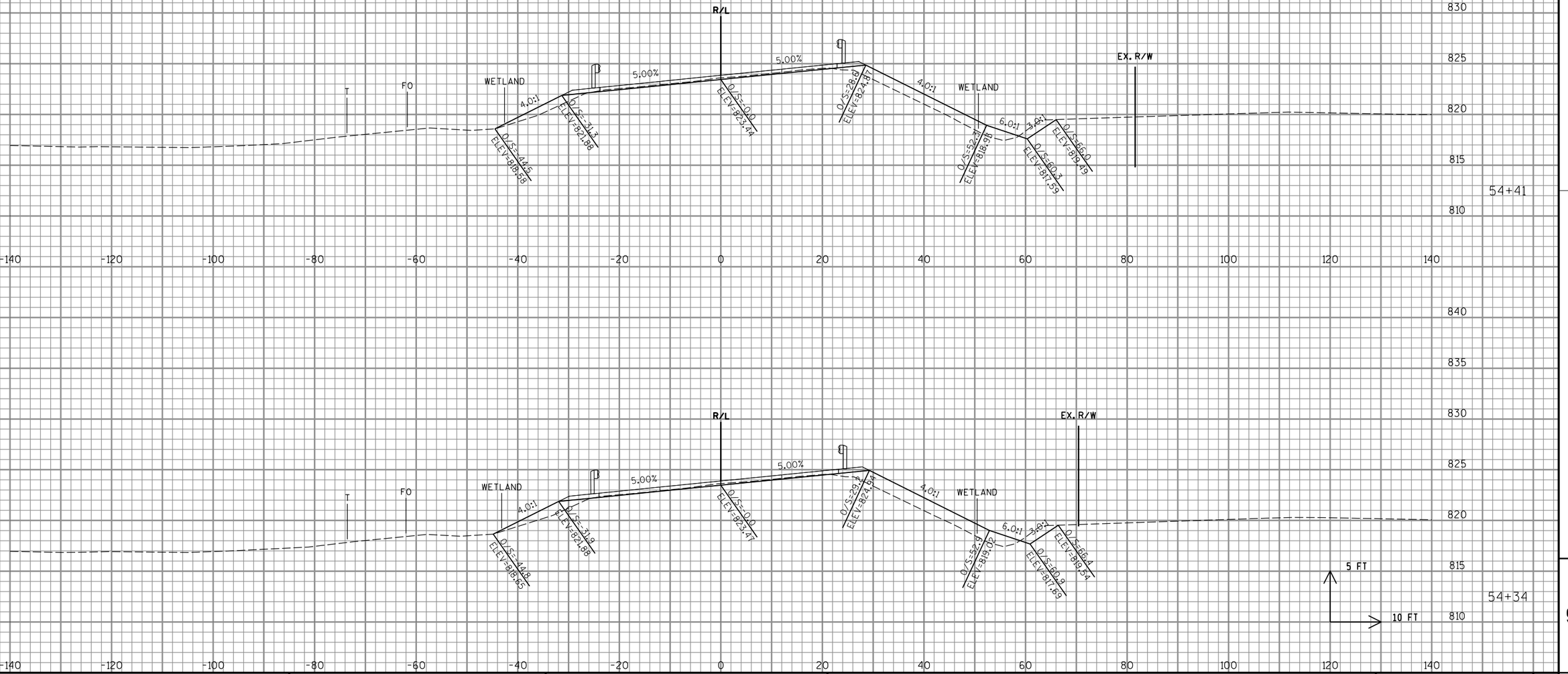


9

PROJECT NO: 1500-66-71	HWY: USH 10	COUNTY: MANITOWOC	CROSS SECTIONS: USH 10 - GUARDRAIL	SHEET 155	E

FILE NAME : P:\48xx\4816.DP.13.USH 10.MAN\CADDS\Plan\66 resurfacing\090201_xs.dgn | PLOT DATE : 6/20/2017 | PLOT BY : sgc | PLOT NAME : | PLOT SCALE : 1:20

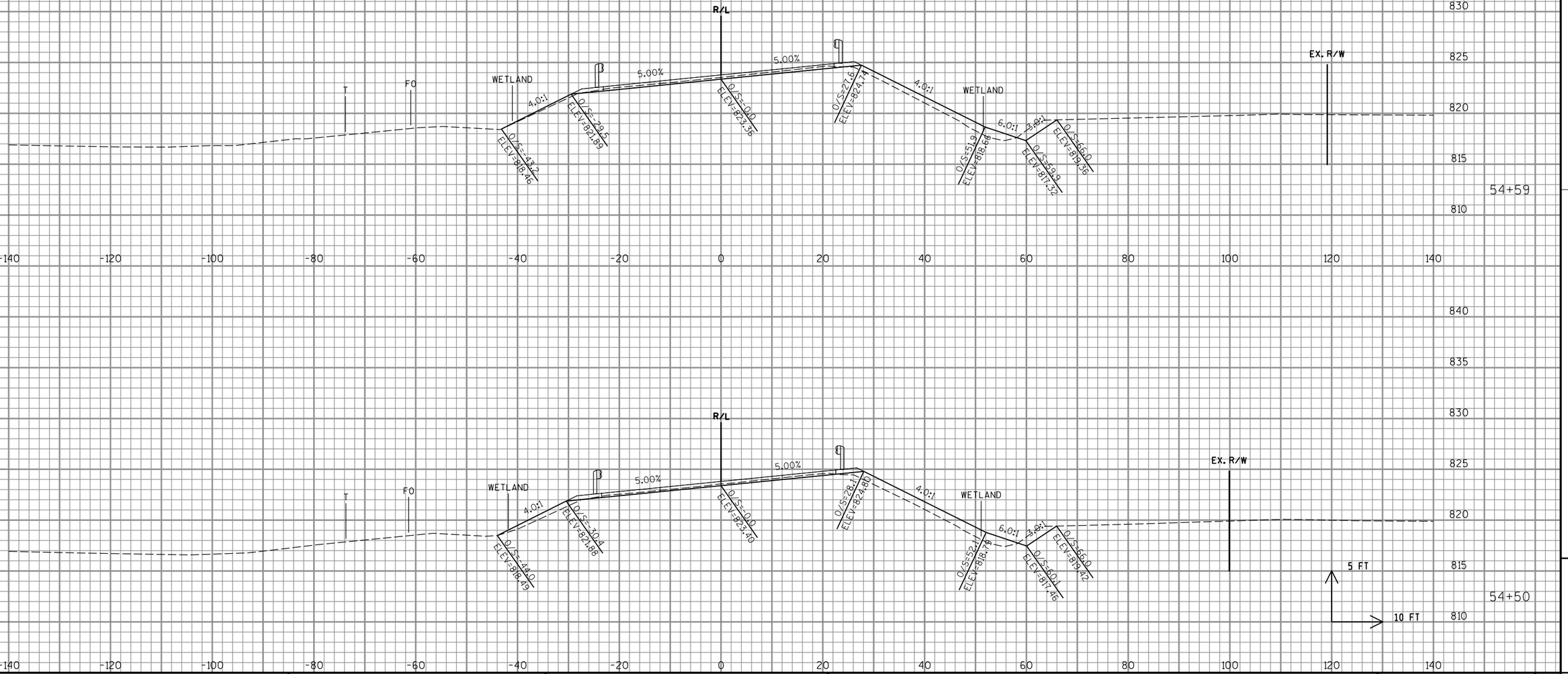
WISDOT/CADDS SHEET 21



PROJECT NO: 1500-66-71	HWY: USH 10	COUNTY: MANITOWOC	CROSS SECTIONS: USH 10 - GUARDRAIL	SHEET 156	E

FILE NAME : P:\48xx\4816.DP.13.USH 10.MAN\CADDS\Plan\66 resurfacing\090201_xs.dgn | PLOT DATE : 6/20/2017 | PLOT BY : sgc | PLOT NAME : | PLOT SCALE : 1:20

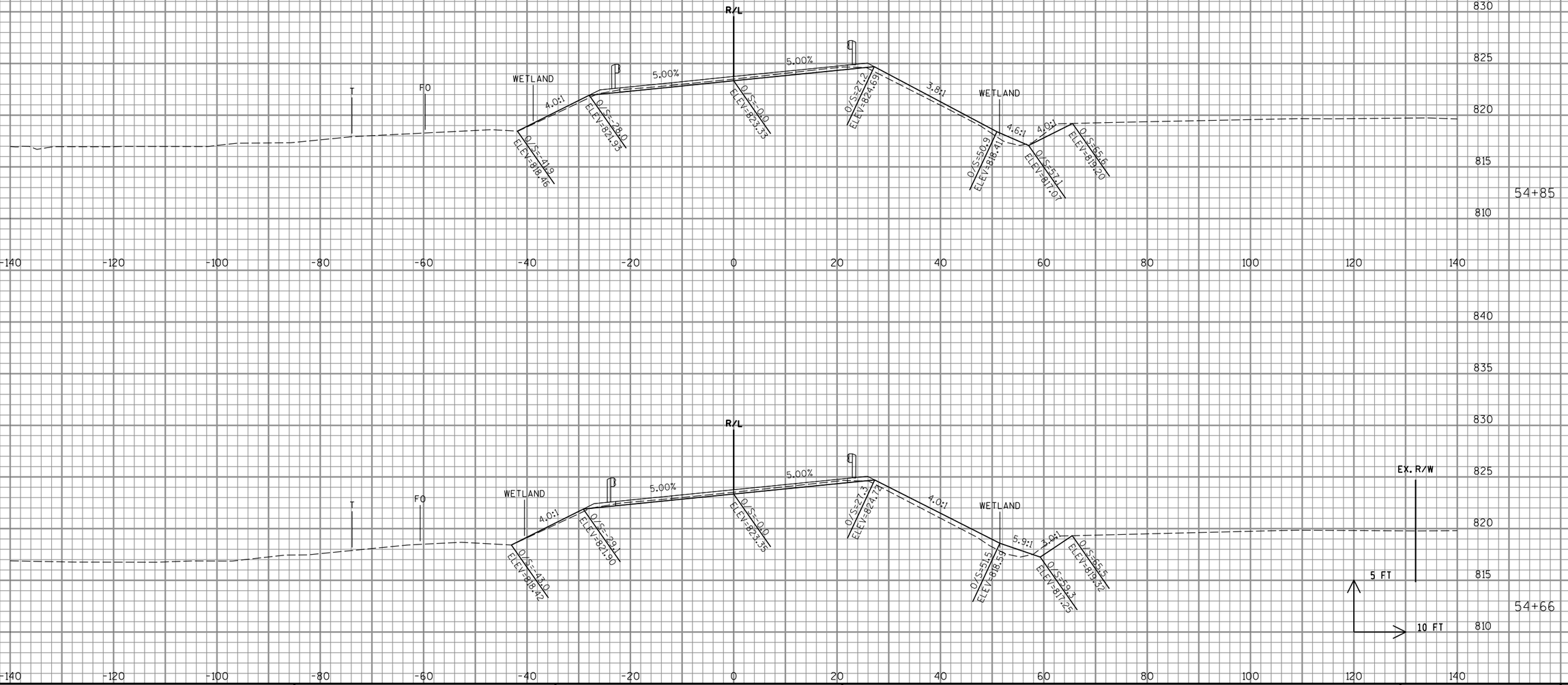
WISDOT/CADDS SHEET 21



PROJECT NO: 1500-66-71	HWY: USH 10	COUNTY: MANITOWOC	CROSS SECTIONS: USH 10 - GUARDRAIL	SHEET 157	E

FILE NAME : P:\48xx\4816.DP.13.USH 10.MAN\CADDS\Plan\66 resurfacing\090201_xs.dgn | PLOT DATE : 6/20/2017 | PLOT BY : sgc | PLOT NAME : | PLOT SCALE : 1:20

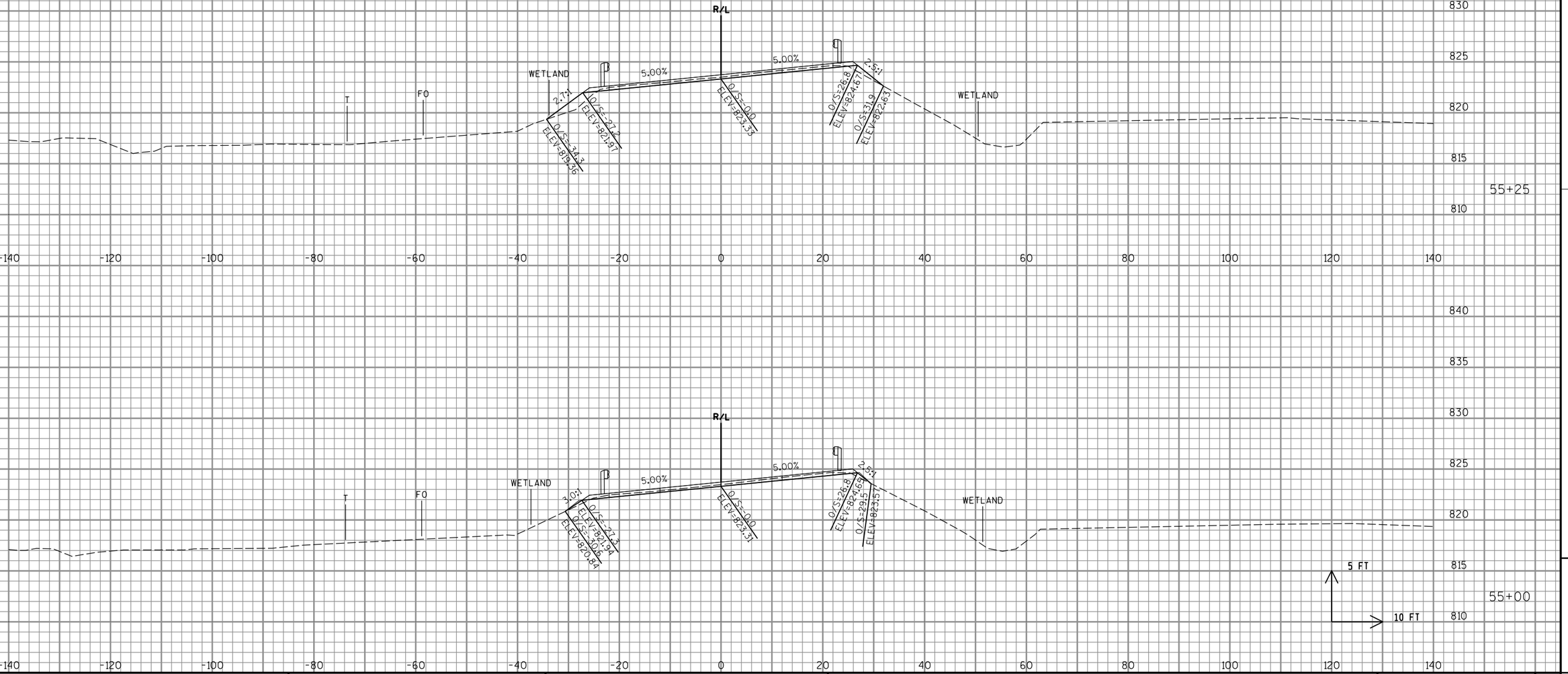
WISDOT/CADDS SHEET 21



PROJECT NO: 1500-66-71	HWY: USH 10	COUNTY: MANITOWOC	CROSS SECTIONS: USH 10 - GUARDRAIL	SHEET 158	E

FILE NAME : P:\48xx\4816.DP.13.USH 10.MAN\CADDS\Plan\66 resurfacing\090201_xs.dgn PLOT DATE : 6/20/2017 PLOT BY : sgc PLOT NAME : PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21



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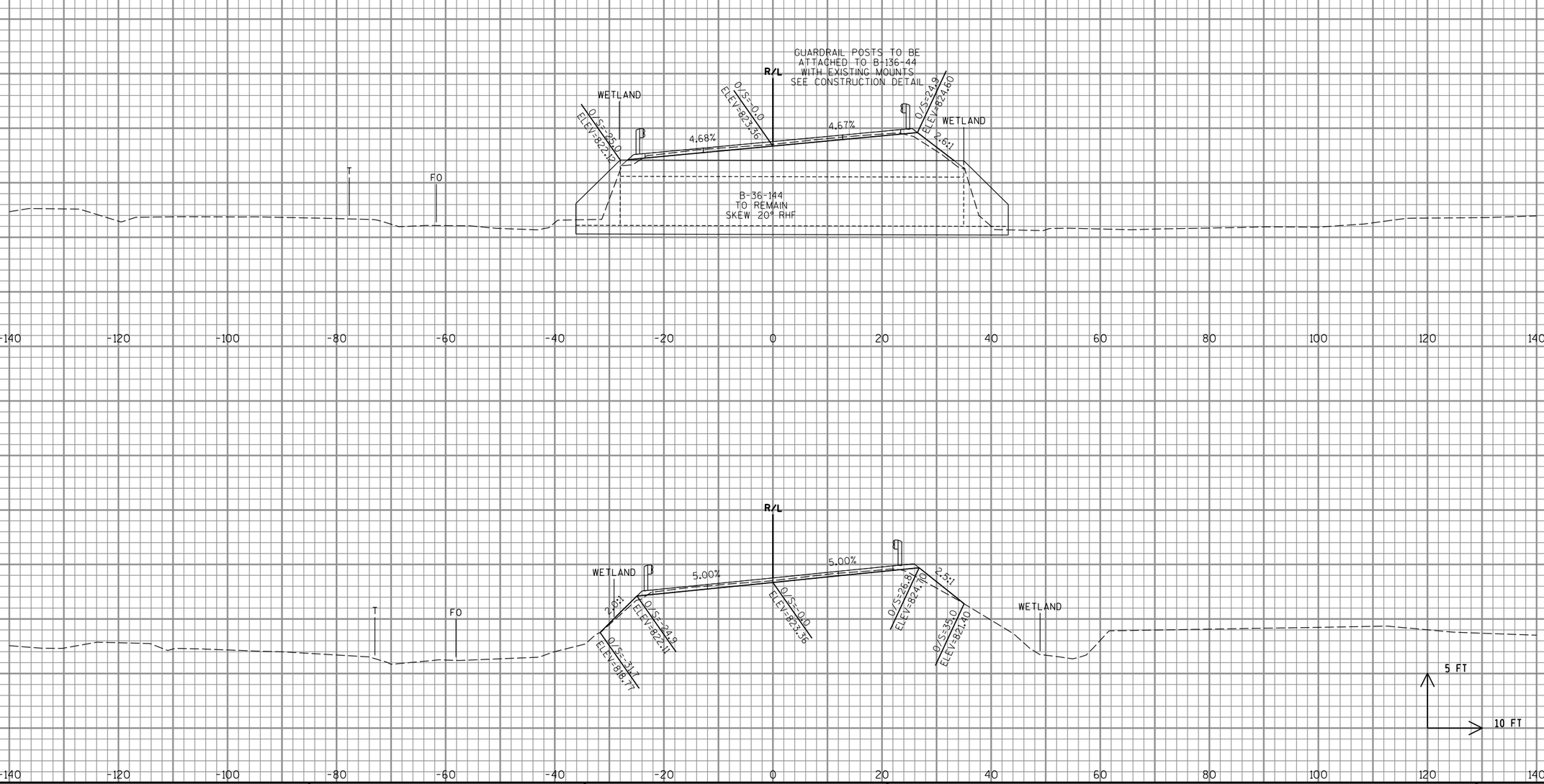
PROJECT NO: 1500-66-71	HWY: USH 10	COUNTY: MANITOWOC	CROSS SECTIONS: USH 10 - GUARDRAIL	SHEET 159	E

FILE NAME : P:\48xx\4816.DP.13.USH 10.MAN\CADDS\Plan\66 resurfacing\090201_xs.dgn PLOT DATE : 6/20/2017 PLOT BY : sgc PLOT NAME : PLOT SCALE : 1:20

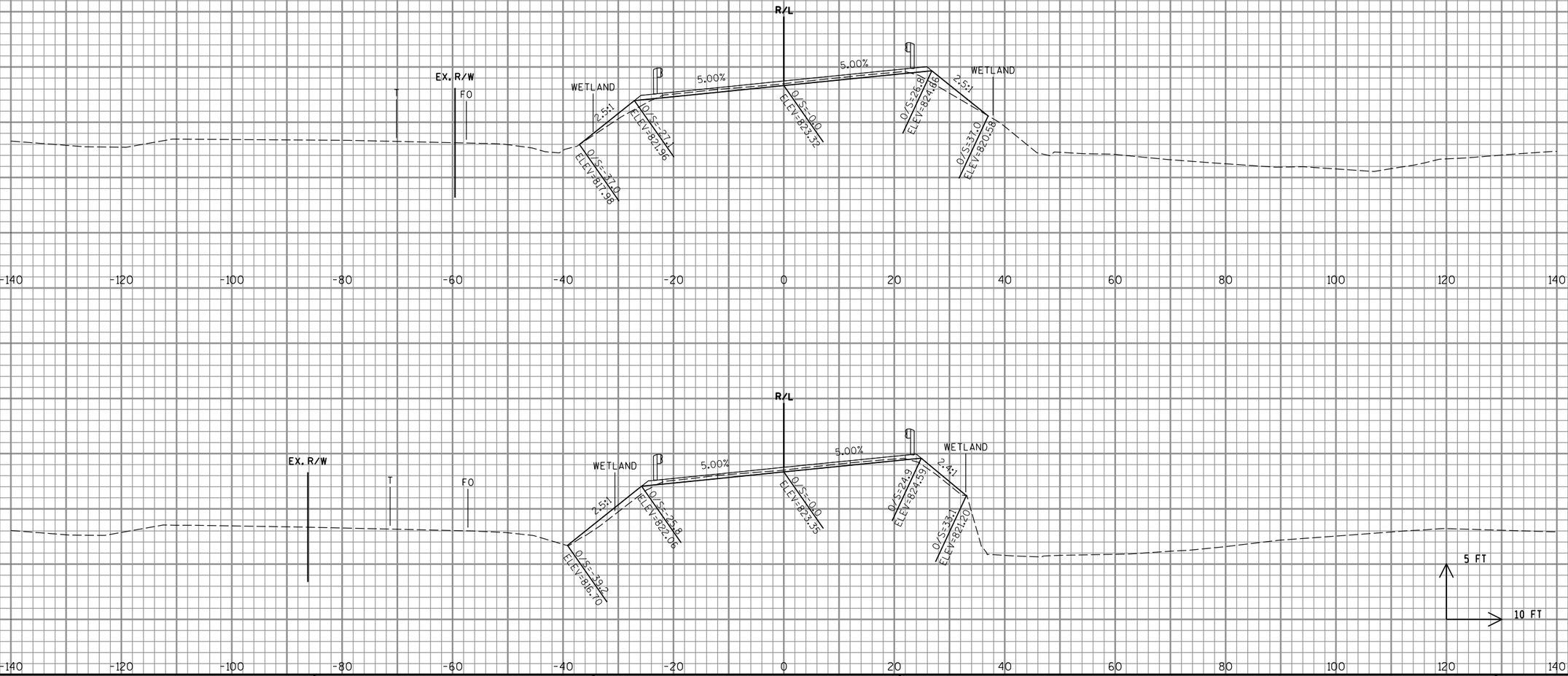
WISDOT/CADDS SHEET 21



PROJECT NO: 1500-66-71	HWY: USH 10	COUNTY: MANITOWOC	CROSS SECTIONS: USH 10 - GUARDRAIL	SHEET 160	E

FILE NAME : P:\48xx\4816.DP.13.USH 10.MAN\CADDS\Plan\66 resurfacing\090201_xs.dgn PLOT DATE : 6/20/2017 PLOT BY : sgc PLOT NAME : PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21



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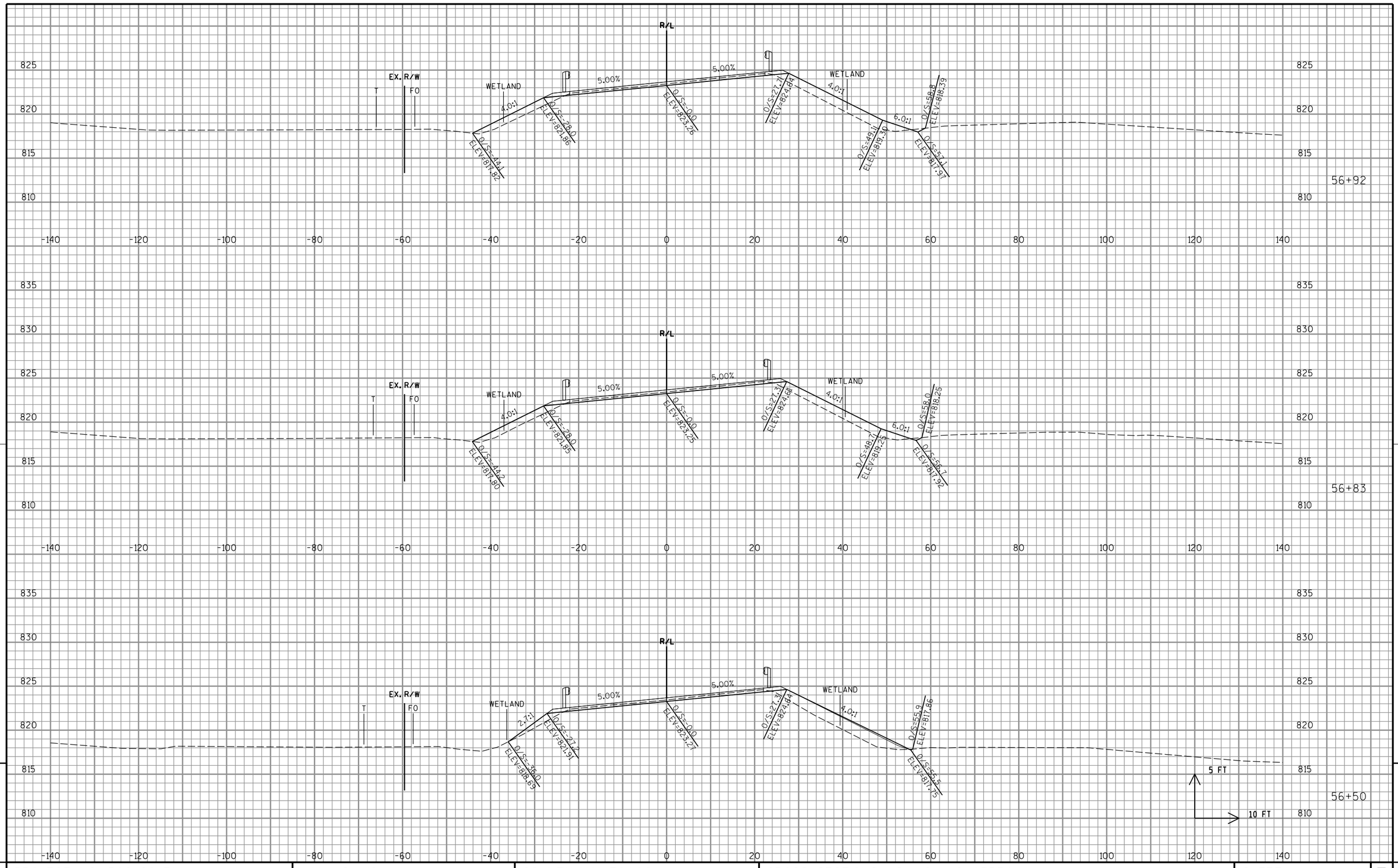
PROJECT NO: 1500-66-71	HWY: USH 10	COUNTY: MANITOWOC	CROSS SECTIONS: USH 10 - GUARDRAIL	SHEET 161	E

9

FILE NAME : P:\48xx\4816.DP.13.USH 10.MAN\CADDS\Plan\66 resurfacing\090201_xs.dgn PLOT DATE : 6/20/2017 PLOT BY : sgc PLOT NAME : PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21



PROJECT NO: 1500-66-71	HWY: USH 10	COUNTY: MANITOWOC	CROSS SECTIONS: USH 10 - GUARDRAIL	SHEET 162	E

FILE NAME : P:\48xx\4816.DP.13.USH 10.MAN\CADDS\Plan\66 resurfacing\090201_xs.dgn | PLOT DATE : 6/20/2017 | PLOT BY : sgc | PLOT NAME : | PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21

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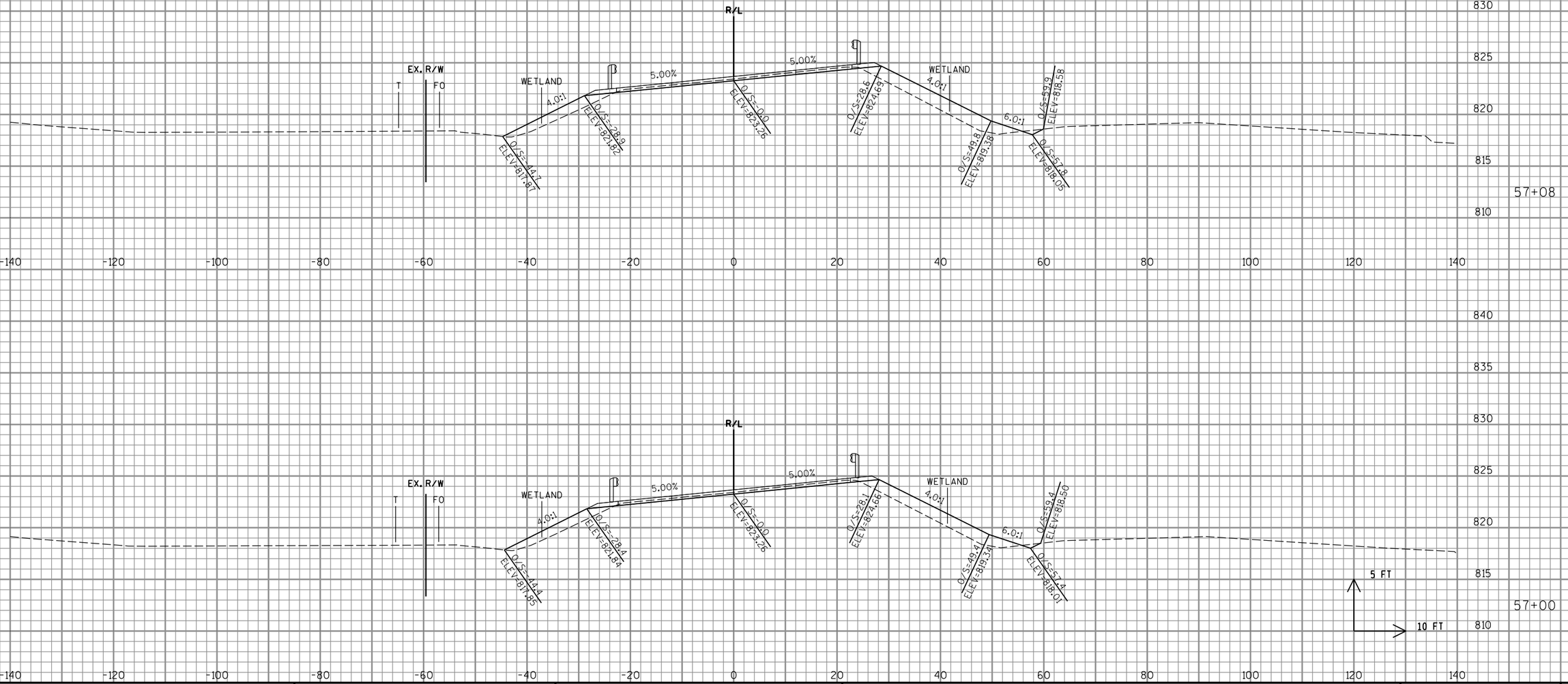

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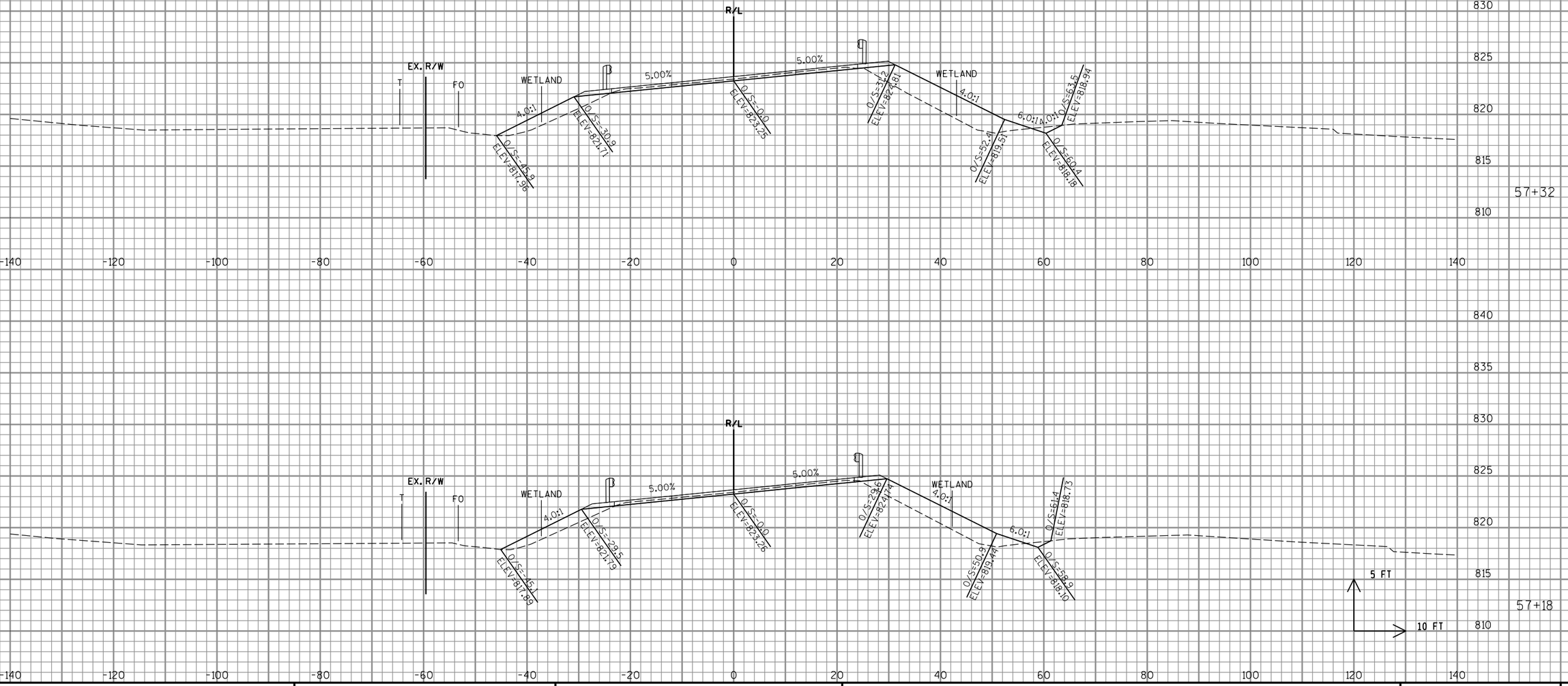
PROJECT NO: 1500-66-71	HWY: USH 10	COUNTY: MANITOWOC	CROSS SECTIONS: USH 10 - GUARDRAIL	SHEET 163	E

FILE NAME : P:\48xx\4816.DP.13.USH 10.MAN\CADDS\Plan\66 resurfacing\090201_xs.dgn PLOT DATE : 6/20/2017 PLOT BY : sgc PLOT NAME : PLOT SCALE : 1:20

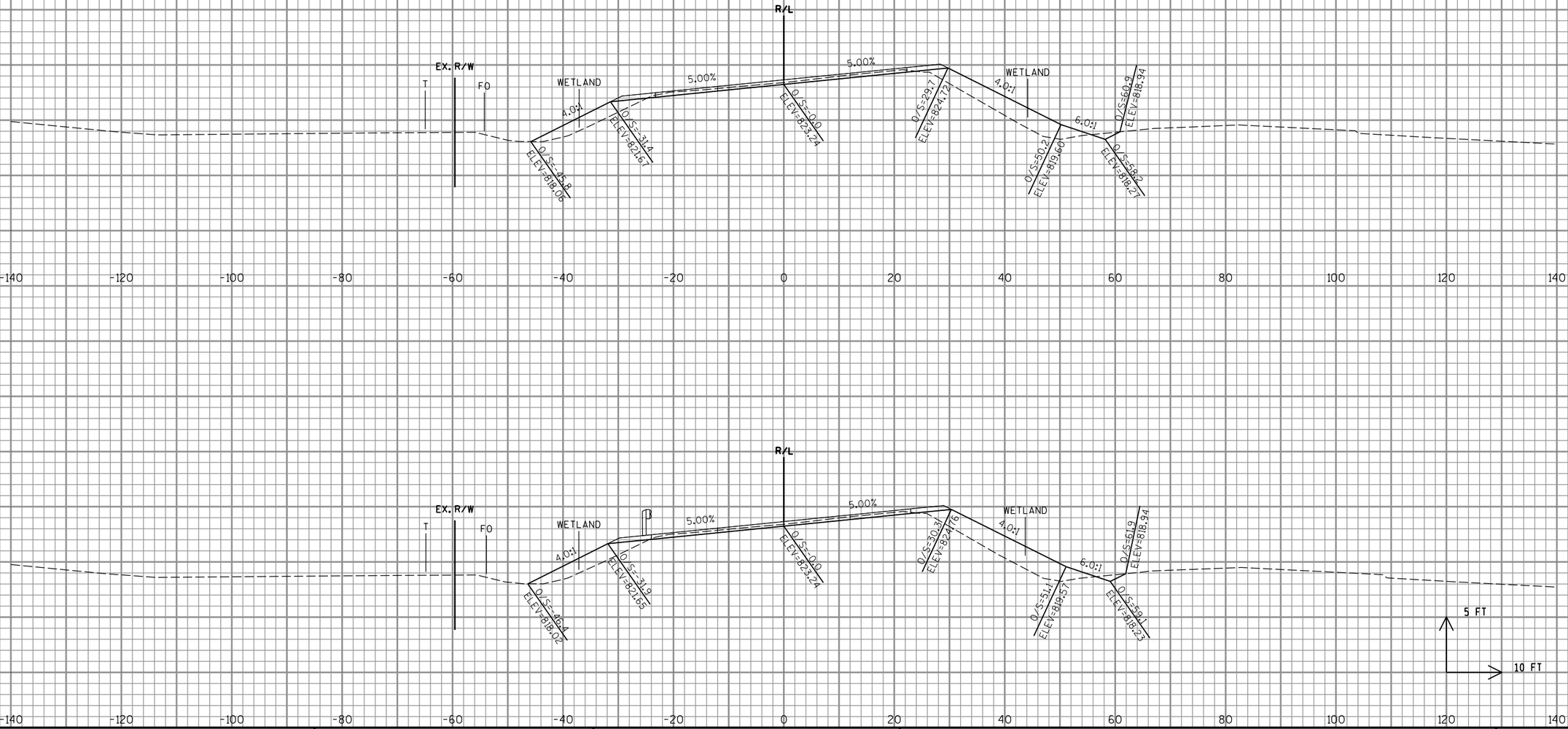
WISDOT/CADDS SHEET 21



PROJECT NO: 1500-66-71	HWY: USH 10	COUNTY: MANITOWOC	CROSS SECTIONS: USH 10 - GUARDRAIL	SHEET 164	E

FILE NAME : P:\48xx\4816.DP.13.USH 10.MAN\CADDS\Plan\66 resurfacing\090201_xs.dgn PLOT DATE : 6/20/2017 PLOT BY : sgc PLOT NAME : PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21



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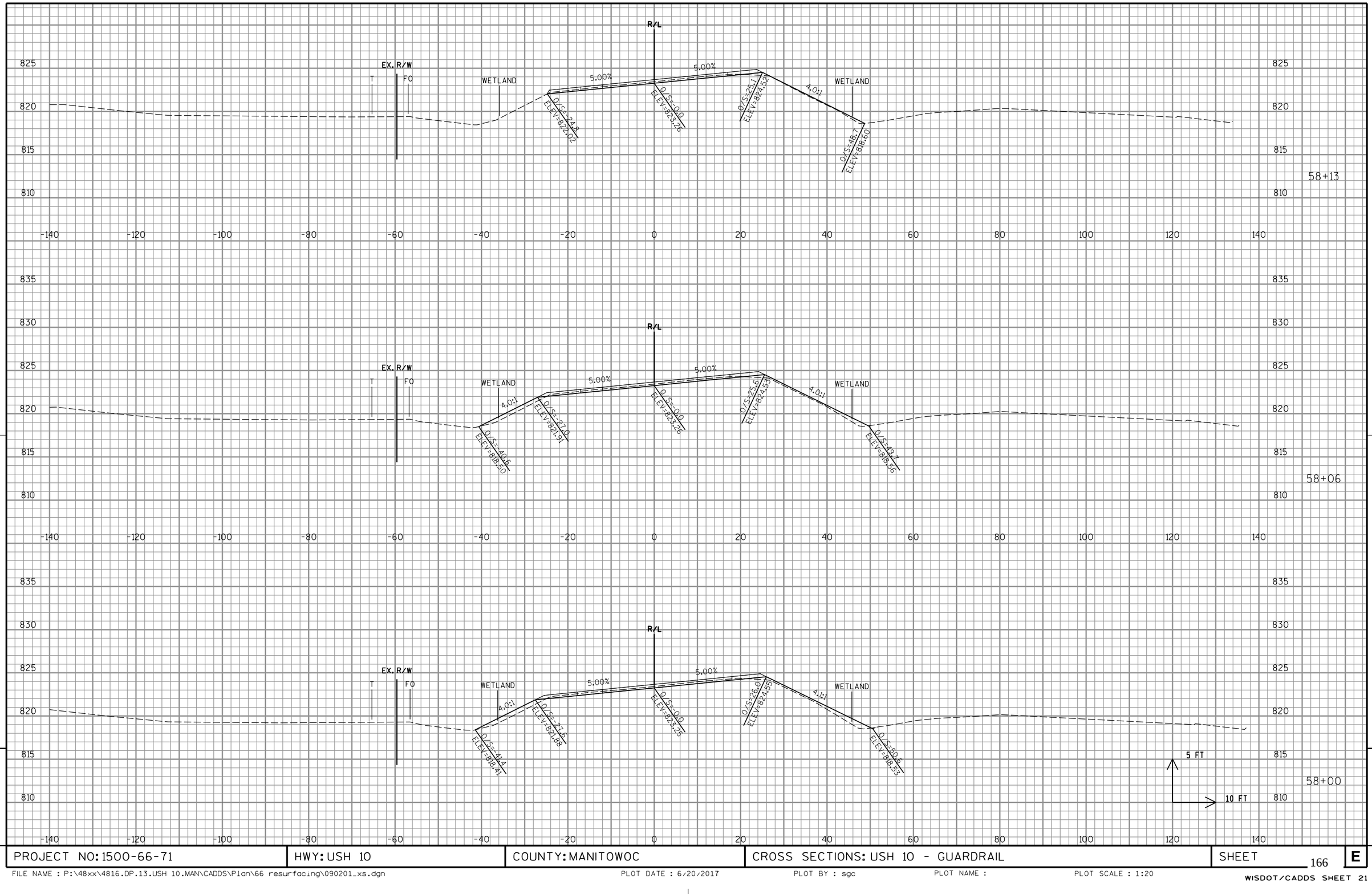
PROJECT NO: 1500-66-71	HWY: USH 10	COUNTY: MANITOWOC	CROSS SECTIONS: USH 10 - GUARDRAIL	SHEET 165	E

FILE NAME : P:\48xx\4816.DP.13.USH 10.MAN\CADDS\Plan\66 resurfacing\090201_xs.dgn PLOT DATE : 6/20/2017 PLOT BY : sgc PLOT NAME : PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21



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PROJECT NO: 1500-66-71	HWY: USH 10	COUNTY: MANITOWOC	CROSS SECTIONS: USH 10 - GUARDRAIL	SHEET 166	E

FILE NAME : P:\48xx\4816.DP.13.USH 10.MAN\CADDS\Plan\66 resurfacing\090201_xs.dgn PLOT DATE : 6/20/2017 PLOT BY : sgc PLOT NAME : PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21

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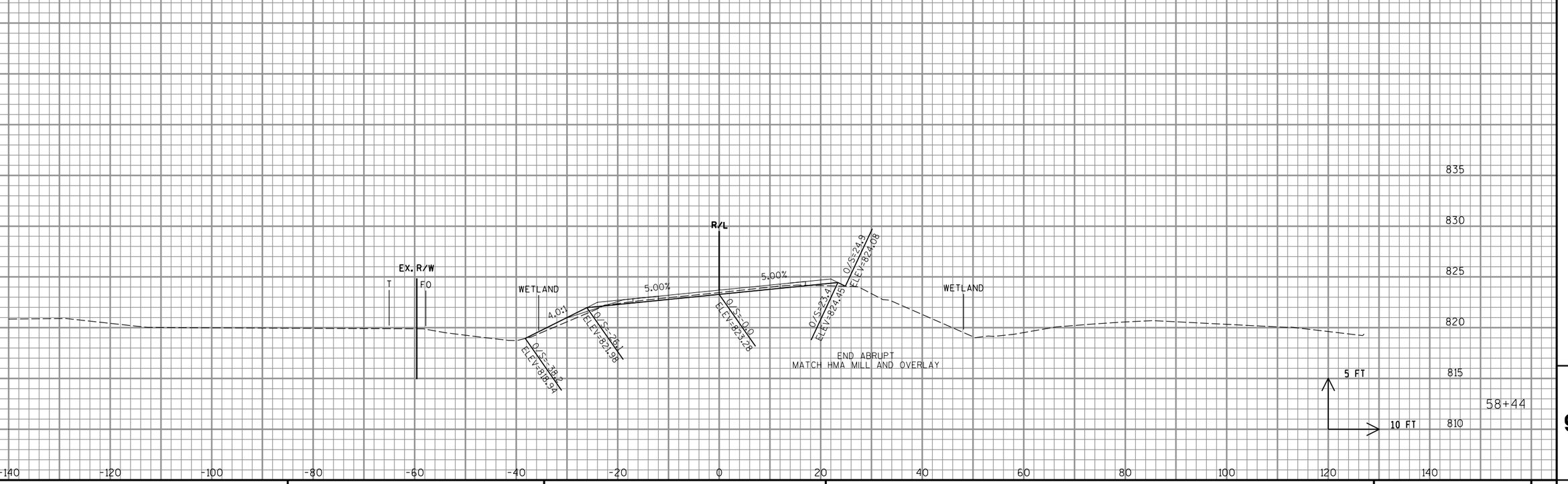

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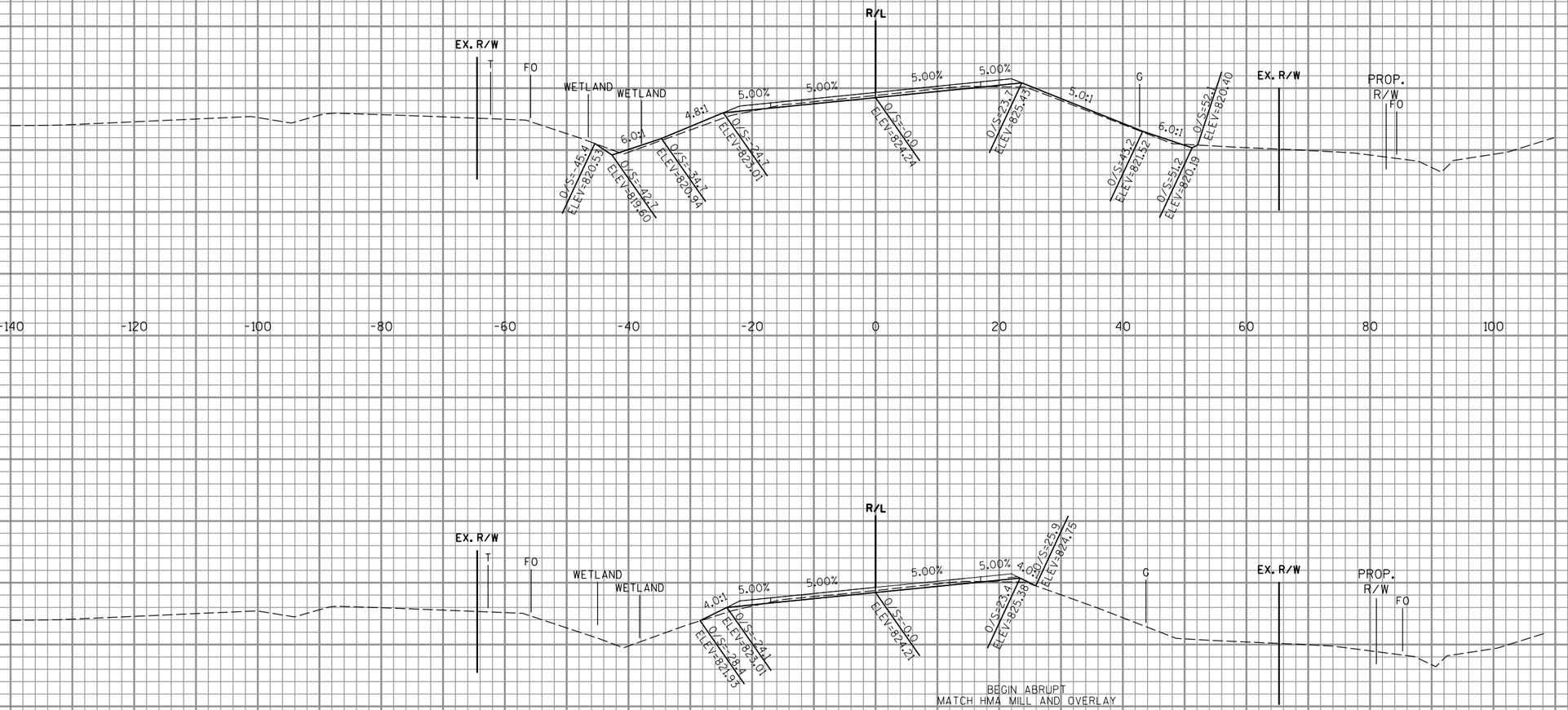
PROJECT NO: 1500-66-71	HWY: USH 10	COUNTY: MANITOWOC	CROSS SECTIONS: USH 10 - GUARDRAIL	SHEET 167	E

FILE NAME : P:\48xx\4816.DP.13.USH 10.MAN\CADDS\Plan\66 resurfacing\090201_xs.dgn PLOT DATE : 6/20/2017 PLOT BY : sgc PLOT NAME : PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21



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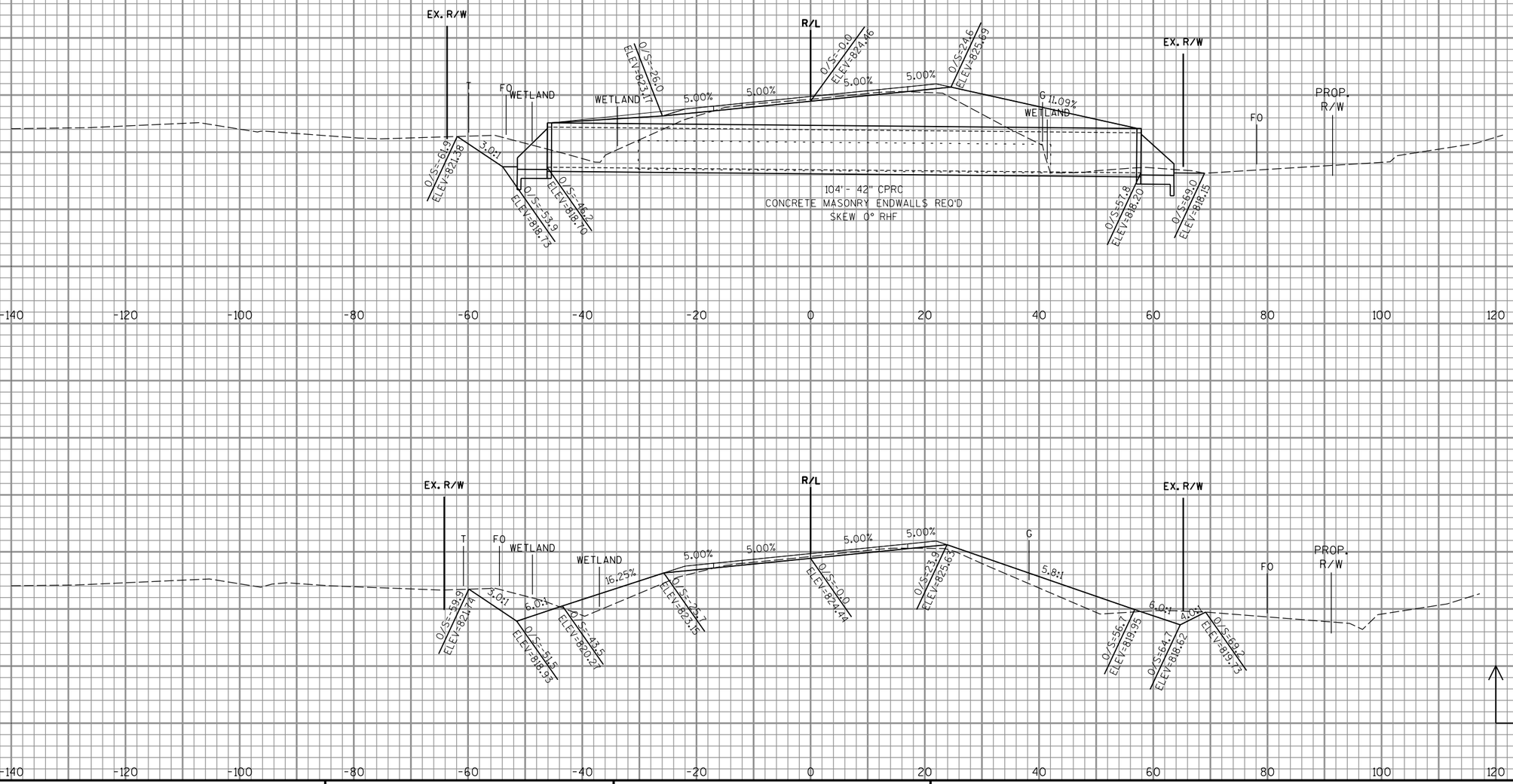
PROJECT NO: 1500-66-71	HWY: USH 10	COUNTY: MANITOWOC	CROSS SECTIONS: USH 10 - CULVERTS (STA 65+28)	SHEET 168	E

9

FILE NAME : P:\48xx\4816.DP.13.USH 10.MAN\CADDS\Plan\66 resurfacing\090201_xs.dgn | PLOT DATE : 6/20/2017 | PLOT BY : sgc | PLOT NAME : | PLOT SCALE : 1:20

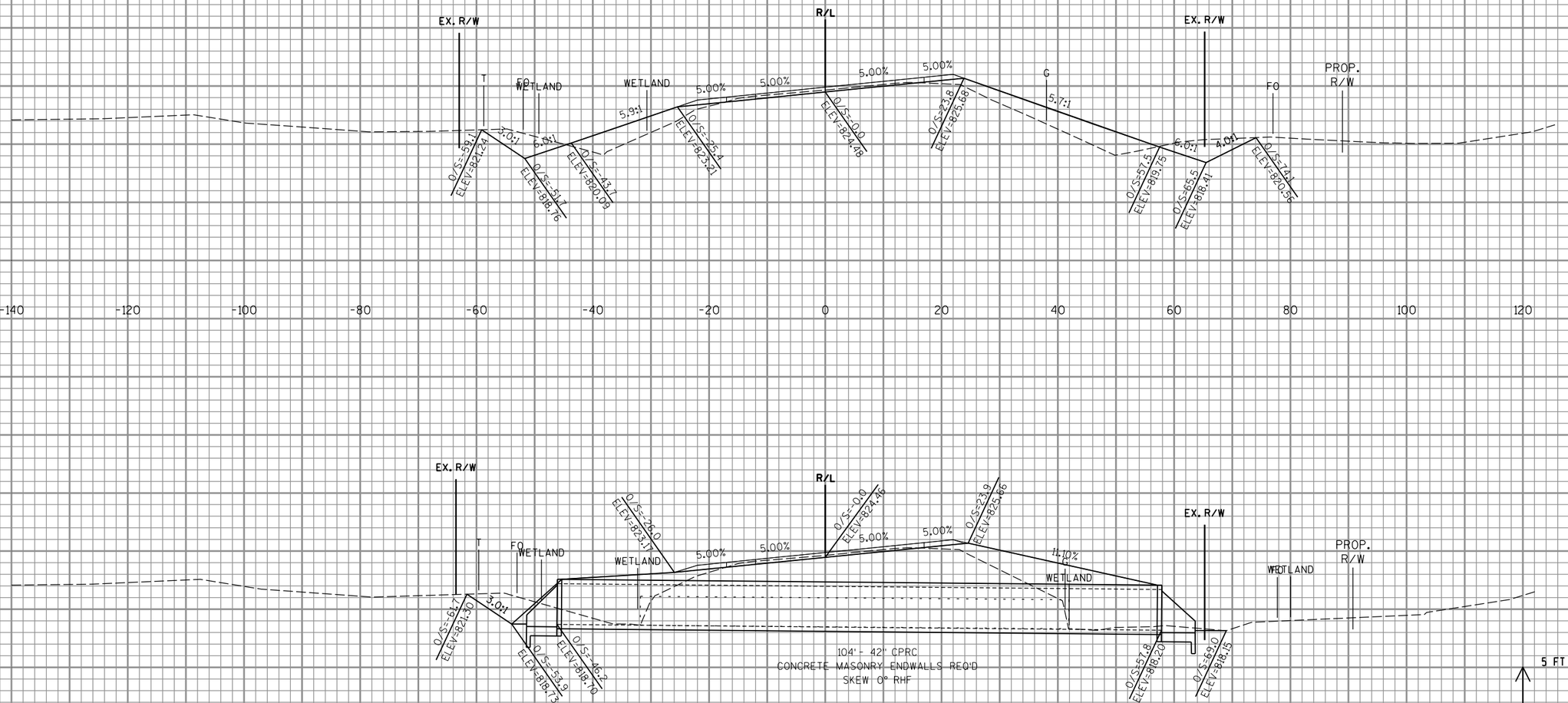
WISDOT/CADDS SHEET 21



PROJECT NO: 1500-66-71	HWY: USH 10	COUNTY: MANITOWOC	CROSS SECTIONS: USH 10 - CULVERTS (STA 65+28)	SHEET 169	E

FILE NAME : P:\48xx\4816.DP.13.USH 10.MAN\CADDS\Plan\66 resurfacing\090201_xs.dgn | PLOT DATE : 6/20/2017 | PLOT BY : sgc | PLOT NAME : | PLOT SCALE : 1:20

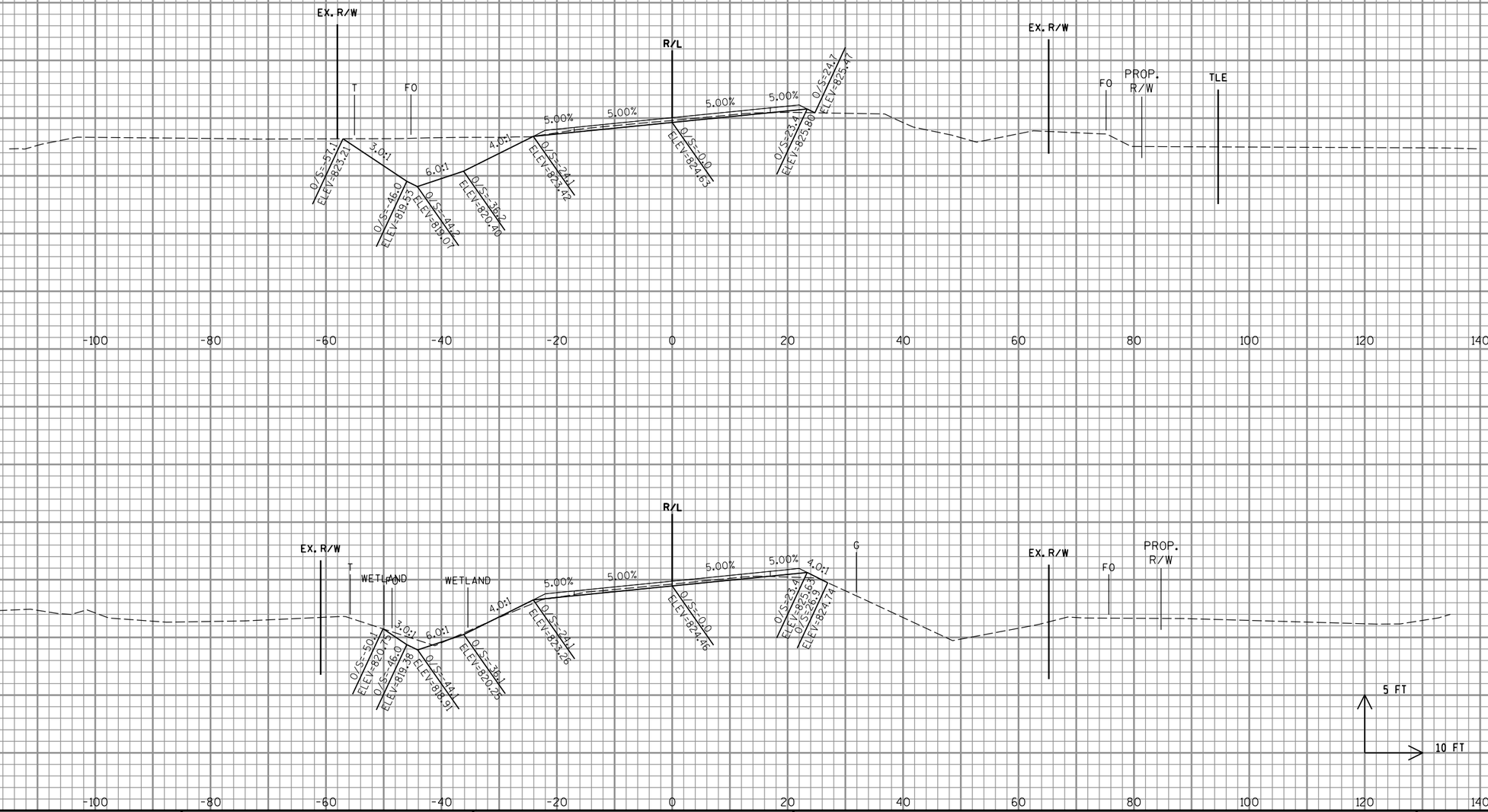
WISDOT/CADDS SHEET 21



PROJECT NO: 1500-66-71	HWY: USH 10	COUNTY: MANITOWOC	CROSS SECTIONS: USH 10 - CULVERTS (STA 65+28)	SHEET 170	E

FILE NAME : P:\48xx\4816.DP.13.USH 10.MAN\CADDS\Plan\66 resurfacing\090201_xs.dgn PLOT DATE : 6/20/2017 PLOT BY : sgc PLOT NAME : PLOT SCALE : 1:20

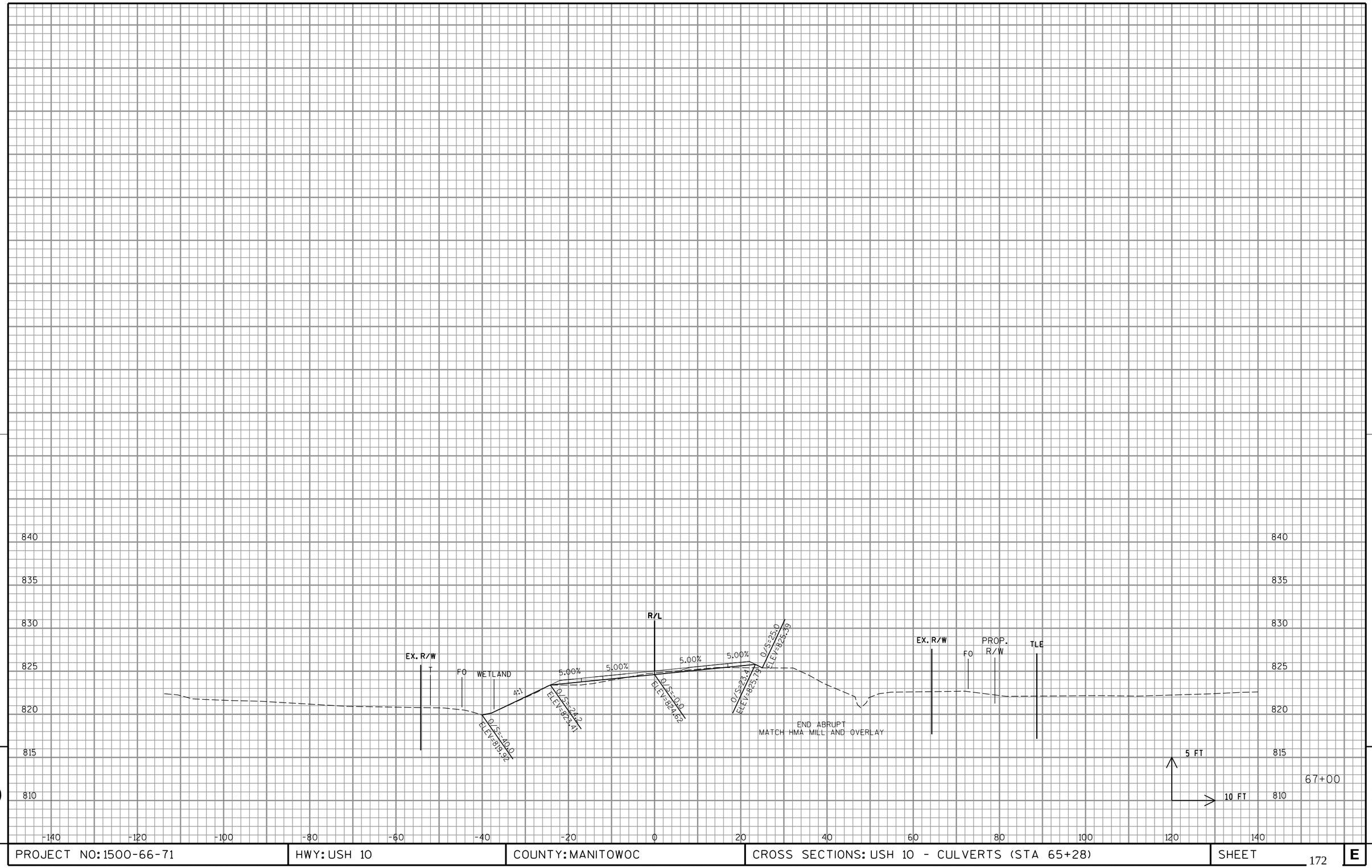
WISDOT/CADDS SHEET 21



PROJECT NO: 1500-66-71	HWY: USH 10	COUNTY: MANITOWOC	CROSS SECTIONS: USH 10 - CULVERTS (STA 65+28)	SHEET 171	E

FILE NAME : P:\48xx\4816.DP.13.USH 10.MAN\CADDS\Plan\66 resurfacing\090201_xs.dgn PLOT DATE : 6/20/2017 PLOT BY : sgc PLOT NAME : PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21



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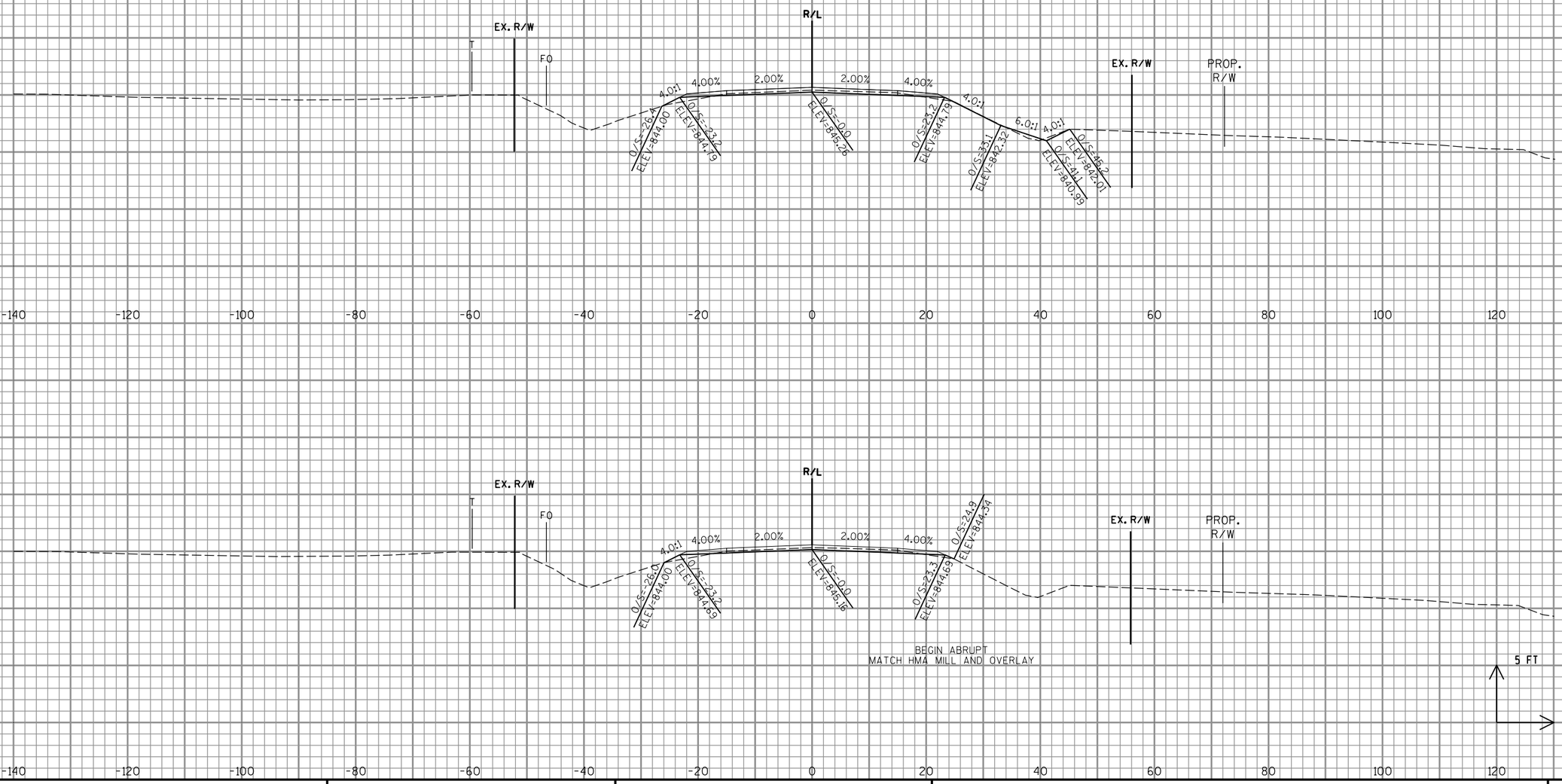
PROJECT NO: 1500-66-71	HWY: USH 10	COUNTY: MANITOWOC	CROSS SECTIONS: USH 10 - CULVERTS (STA 65+28)	SHEET 172	E

FILE NAME : P:\48xx\4816.DP.13.USH 10.MAN\CADDS\Plan\66 resurfacing\090201_xs.dgn PLOT DATE : 6/20/2017 PLOT BY : sgc PLOT NAME : PLOT SCALE : 1:20

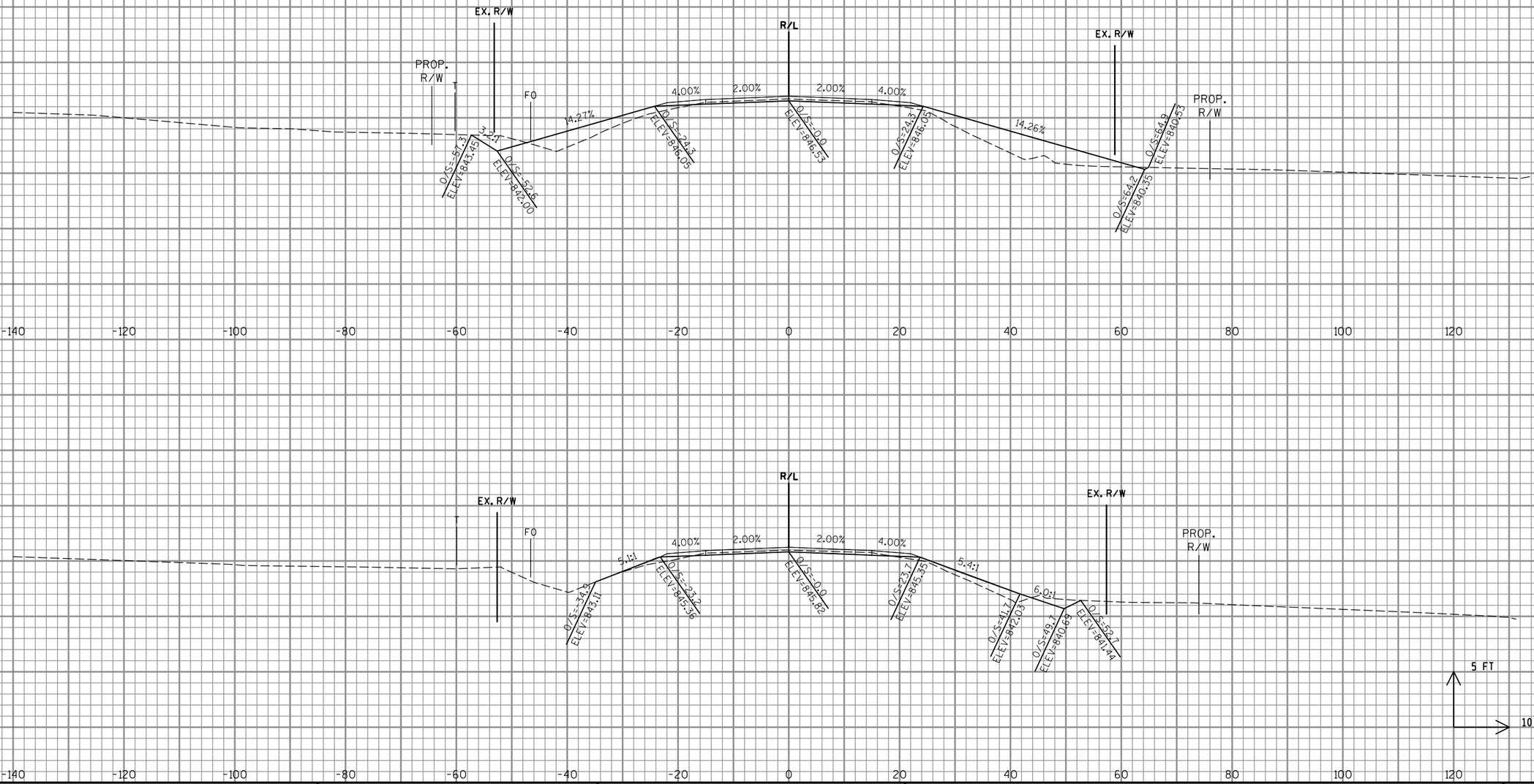
WISDOT/CADDS SHEET 21



PROJECT NO: 1500-66-71	HWY: USH 10	COUNTY: MANITOWOC	CROSS SECTIONS: USH 10 - CULVERT (STA 88+25)	SHEET 173	E

FILE NAME : P:\48xx\4816.DP.13.USH 10.MAN\CADDS\Plan\66 resurfacing\090201_xs.dgn PLOT DATE : 6/20/2017 PLOT BY : sgc PLOT NAME : PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21



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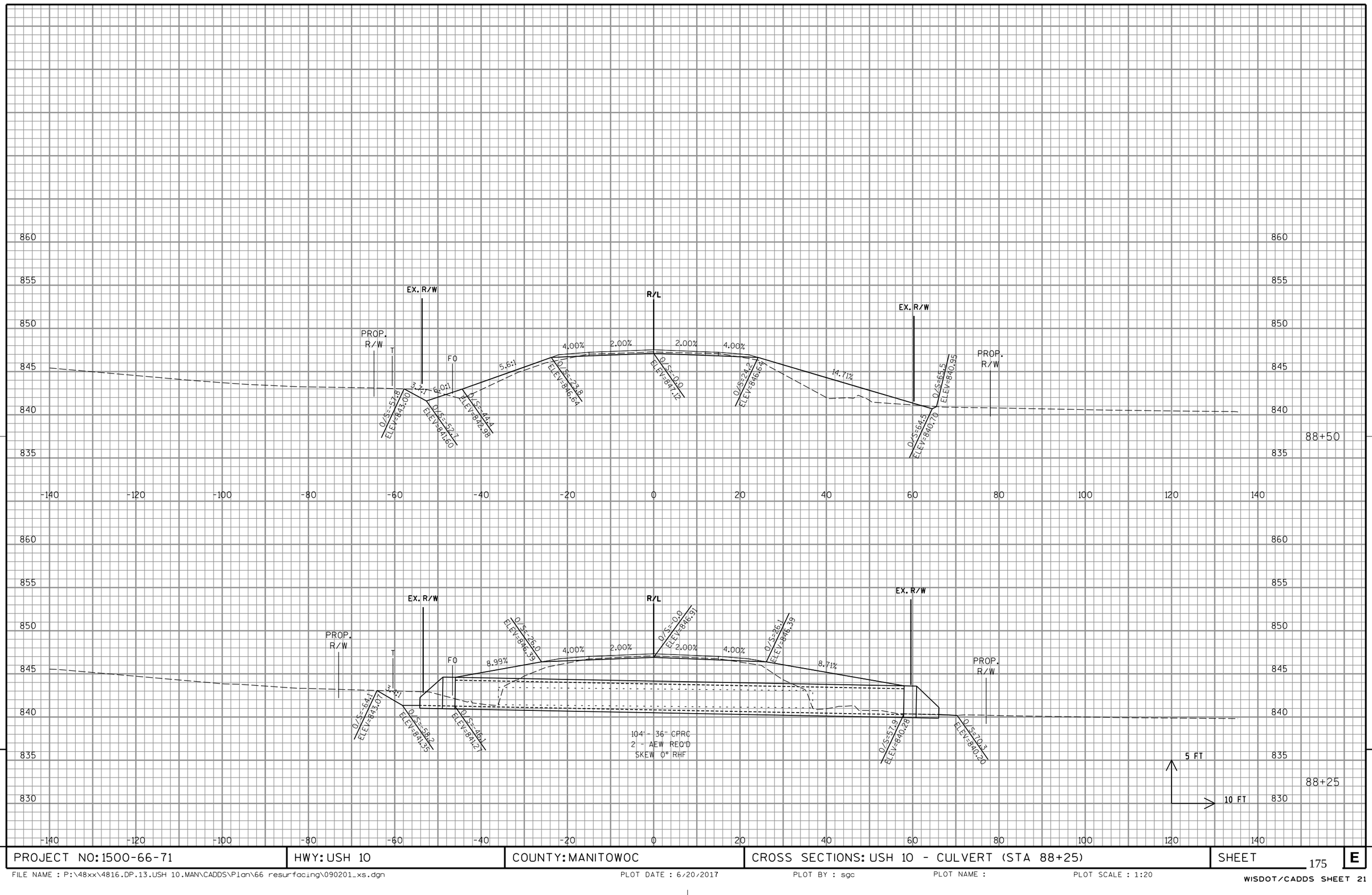
PROJECT NO: 1500-66-71	HWY: USH 10	COUNTY: MANITOWOC	CROSS SECTIONS: USH 10 - CULVERT (STA 88+25)	SHEET 174	E

FILE NAME : P:\48xx\4816.DP.13.USH 10.MAN\CADDS\Plan\66 resurfacing\090201_xs.dgn PLOT DATE : 6/20/2017 PLOT BY : sgc PLOT NAME : PLOT SCALE : 1:20

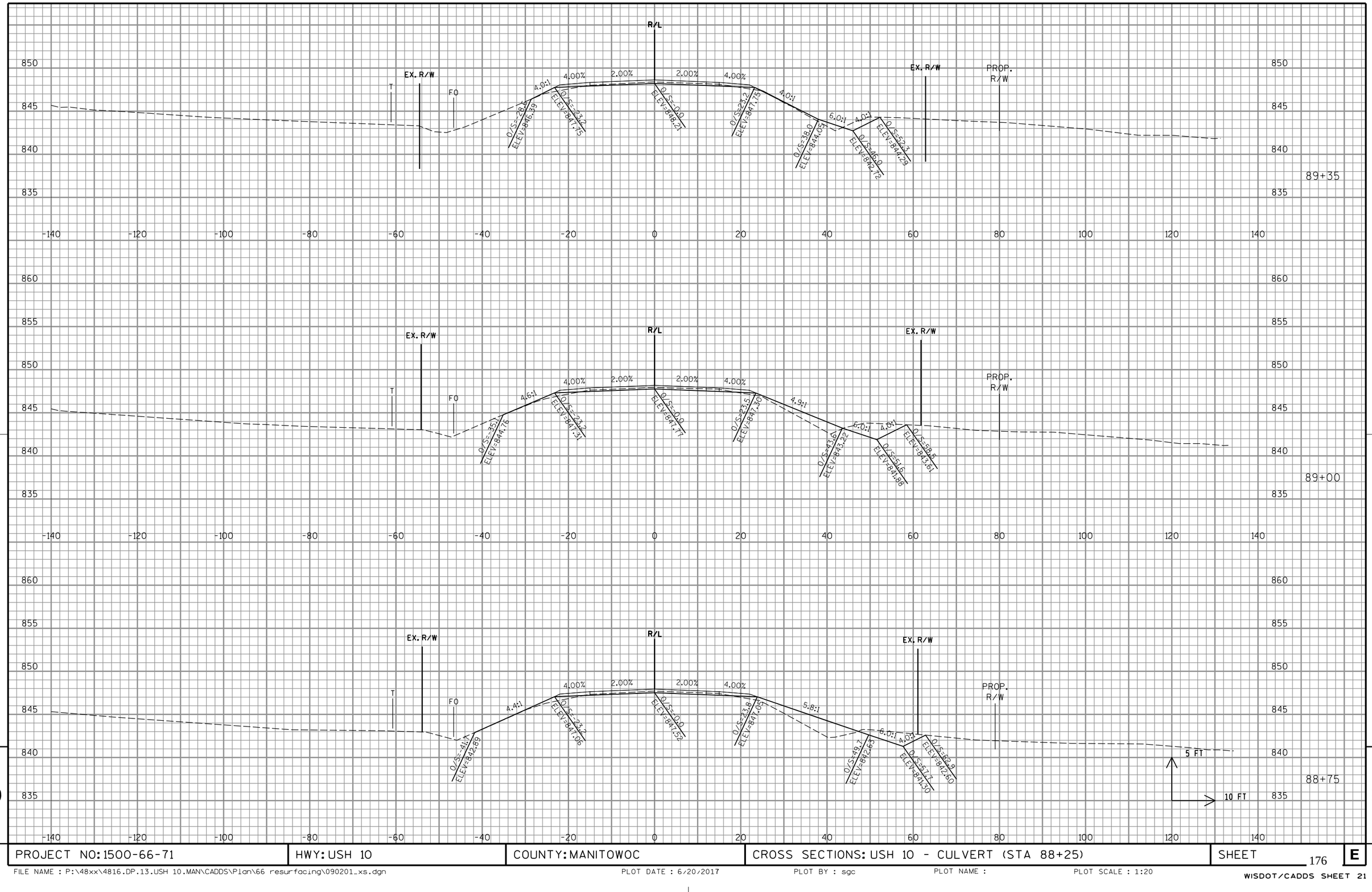
WISDOT/CADDS SHEET 21



PROJECT NO: 1500-66-71	HWY: USH 10	COUNTY: MANITOWOC	CROSS SECTIONS: USH 10 - CULVERT (STA 88+25)	SHEET 175	E

FILE NAME : P:\48xx\4816.DP.13.USH 10.MAN\CADDS\Plan\66 resurfacing\090201_xs.dgn PLOT DATE : 6/20/2017 PLOT BY : sgc PLOT NAME : PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21



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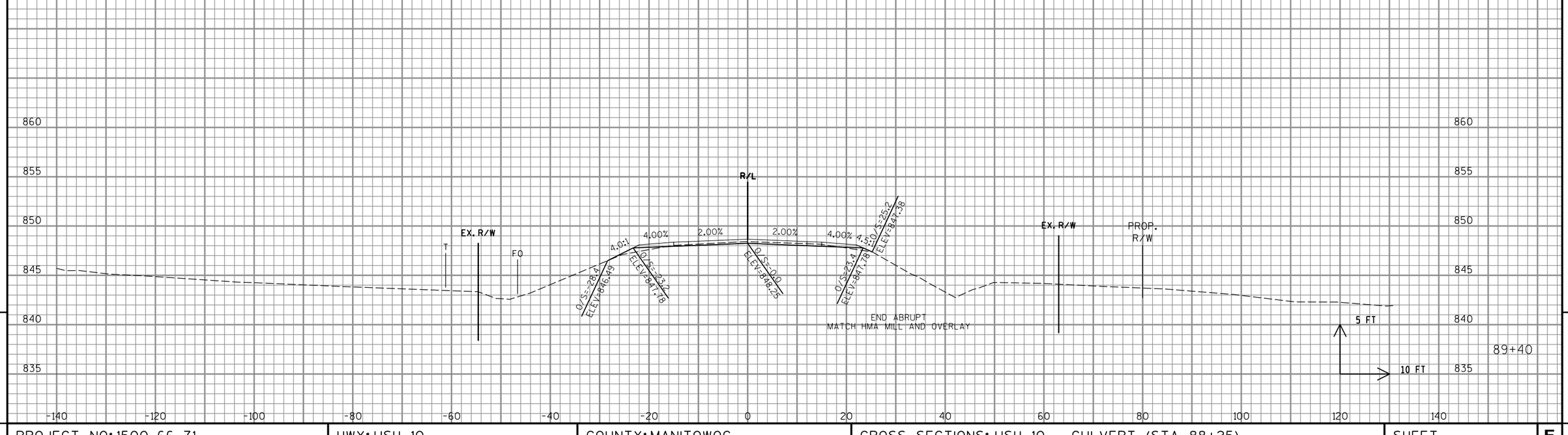
PROJECT NO: 1500-66-71	HWY: USH 10	COUNTY: MANITOWOC	CROSS SECTIONS: USH 10 - CULVERT (STA 88+25)	SHEET 176	E

FILE NAME : P:\48xx\4816.DP.13.USH 10.MAN\CADDS\Plan\66 resurfacing\090201_xs.dgn | PLOT DATE : 6/20/2017 | PLOT BY : sgc | PLOT NAME : | PLOT SCALE : 1:20

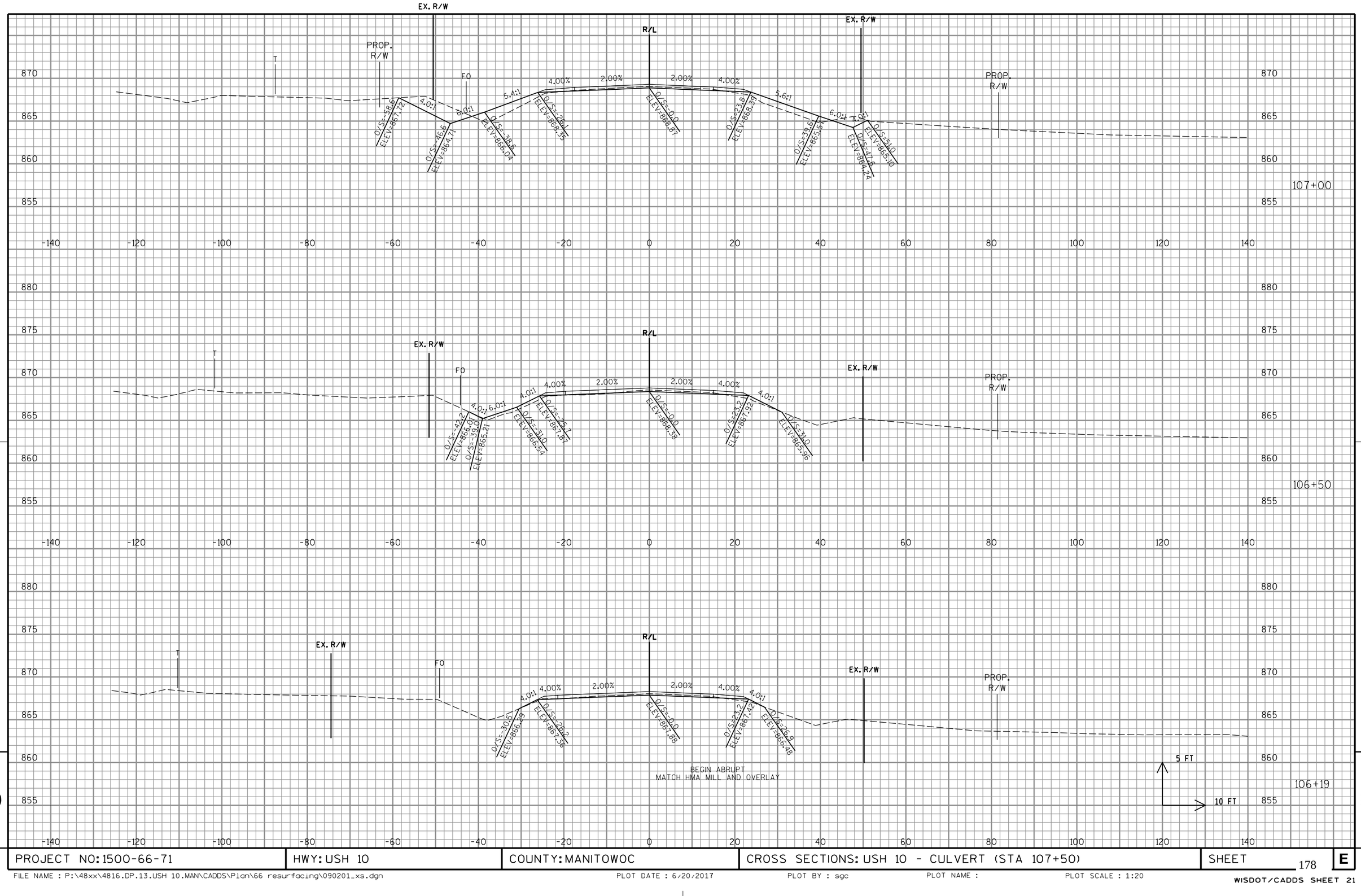
WISDOT/CADDS SHEET 21



PROJECT NO: 1500-66-71	HWY: USH 10	COUNTY: MANITOWOC	CROSS SECTIONS: USH 10 - CULVERT (STA 88+25)	SHEET 177	E

FILE NAME : P:\48xx\4816.DP.13.USH 10.MAN\CADDS\Plan\66 resurfacing\090201_xs.dgn | PLOT DATE : 6/20/2017 | PLOT BY : sgc | PLOT NAME : | PLOT SCALE : 1:20

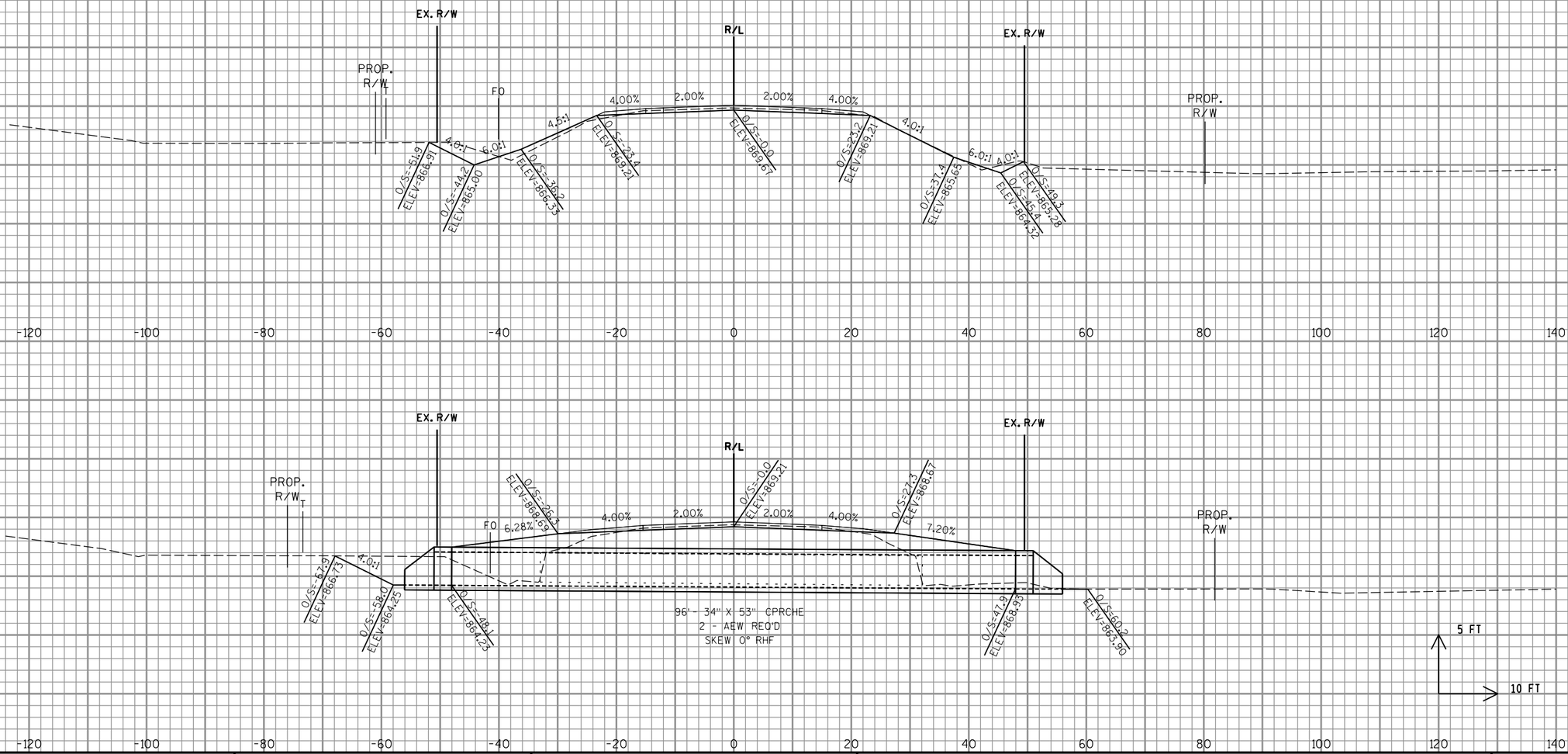
WISDOT/CADDS SHEET 21



PROJECT NO: 1500-66-71	HWY: USH 10	COUNTY: MANITOWOC	CROSS SECTIONS: USH 10 - CULVERT (STA 107+50)	SHEET 178	E

FILE NAME : P:\48xx\4816.DP.13.USH 10.MAN\CADDS\Plan\66 resurfacing\090201_xs.dgn PLOT DATE : 6/20/2017 PLOT BY : sgc PLOT NAME : PLOT SCALE : 1:20

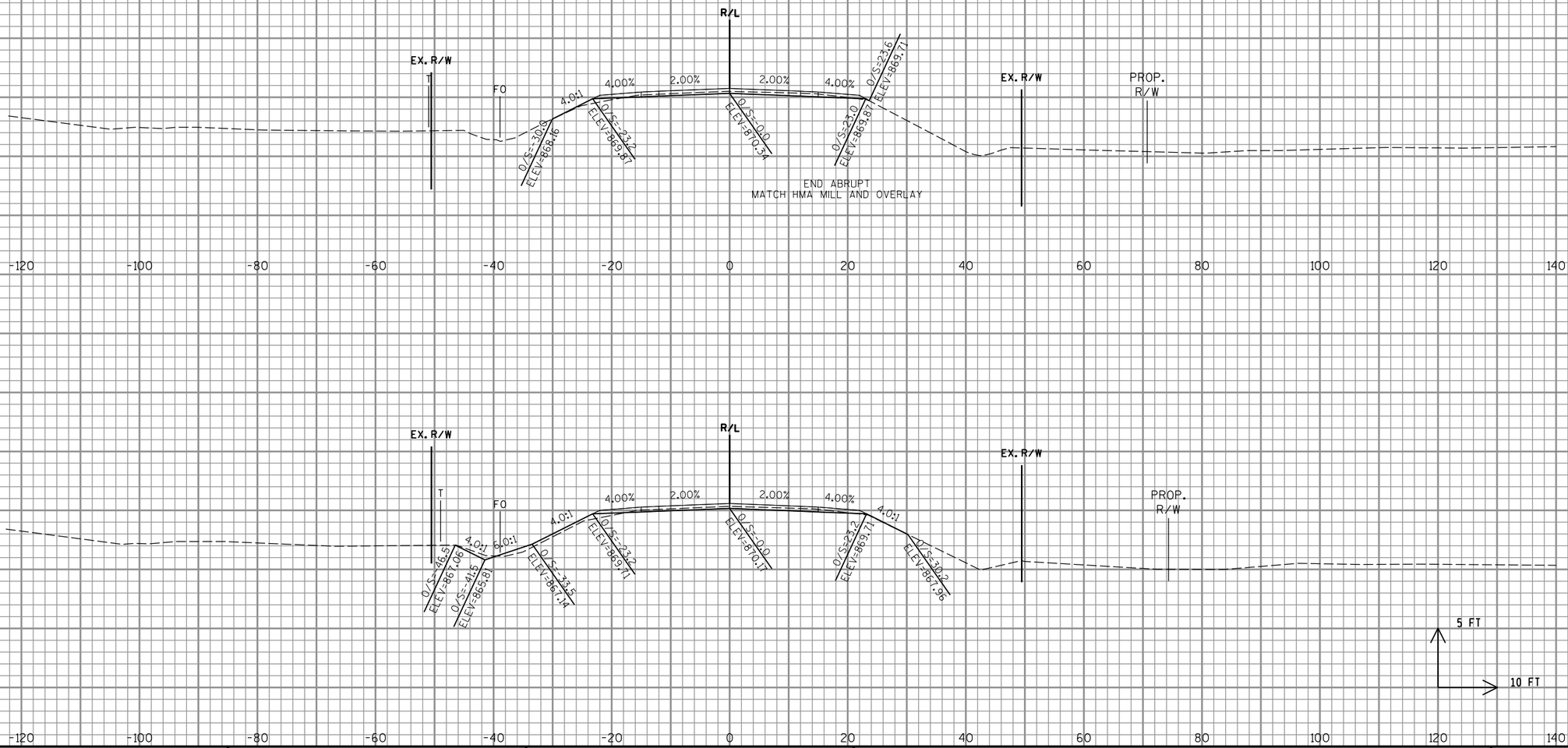
WISDOT/CADDS SHEET 21



PROJECT NO: 1500-66-71	HWY: USH 10	COUNTY: MANITOWOC	CROSS SECTIONS: USH 10 - CULVERT (STA 107+50)	SHEET 179	E

FILE NAME : P:\48xx\4816.DP.13.USH 10.MAN\CADDS\Plan\66 resurfacing\090201_xs.dgn PLOT DATE : 6/20/2017 PLOT BY : sgc PLOT NAME : PLOT SCALE : 1:20

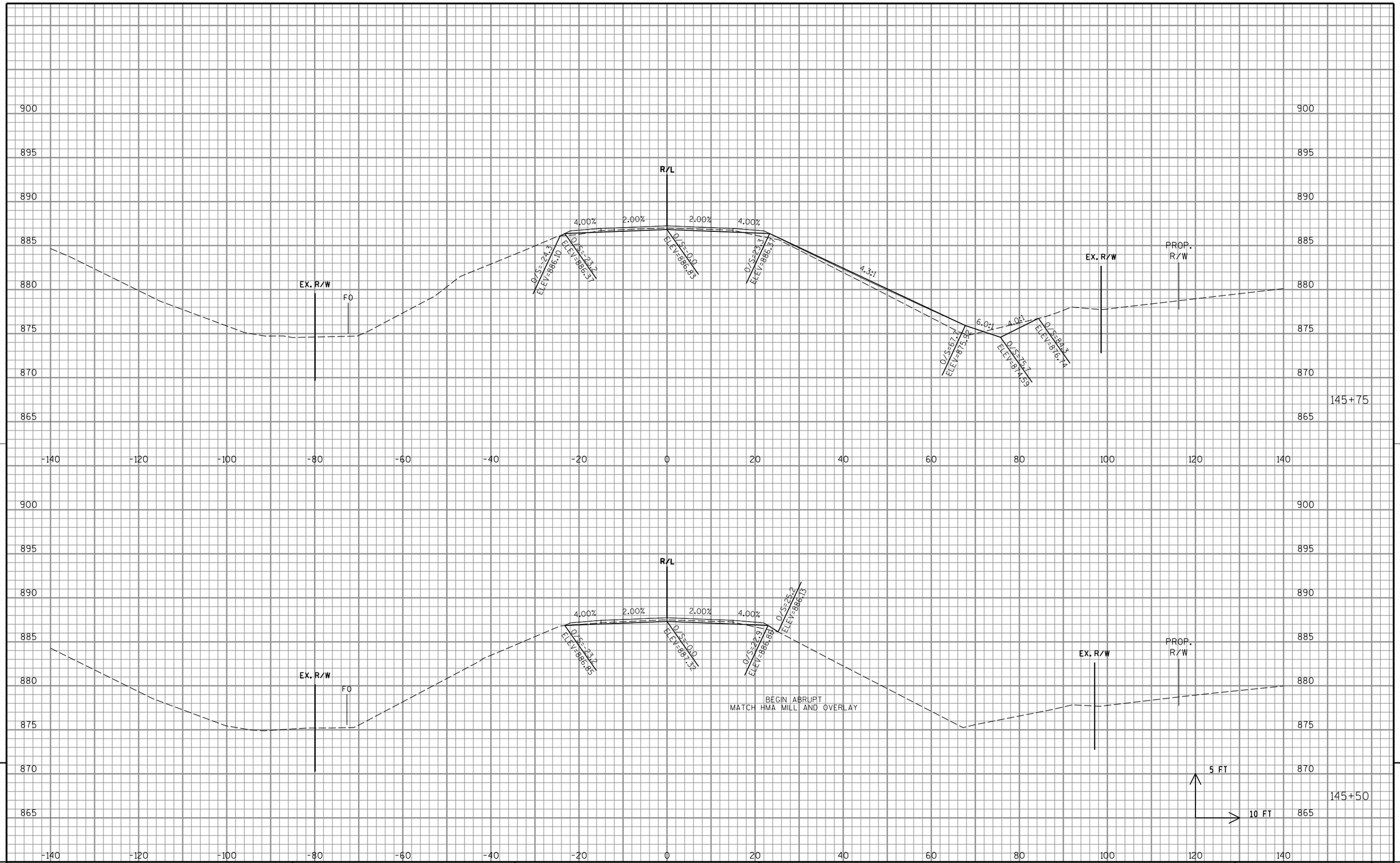
WISDOT/CADDS SHEET 21



PROJECT NO: 1500-66-71	HWY: USH 10	COUNTY: MANITOWOC	CROSS SECTIONS: USH 10 - CULVERT (STA 107+50)	SHEET 180	E

FILE NAME : P:\48xx\4816.DP.13.USH 10.MAN\CADDS\Plan\66 resurfacing\090201_xs.dgn PLOT DATE : 6/20/2017 PLOT BY : sgc PLOT NAME : PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21



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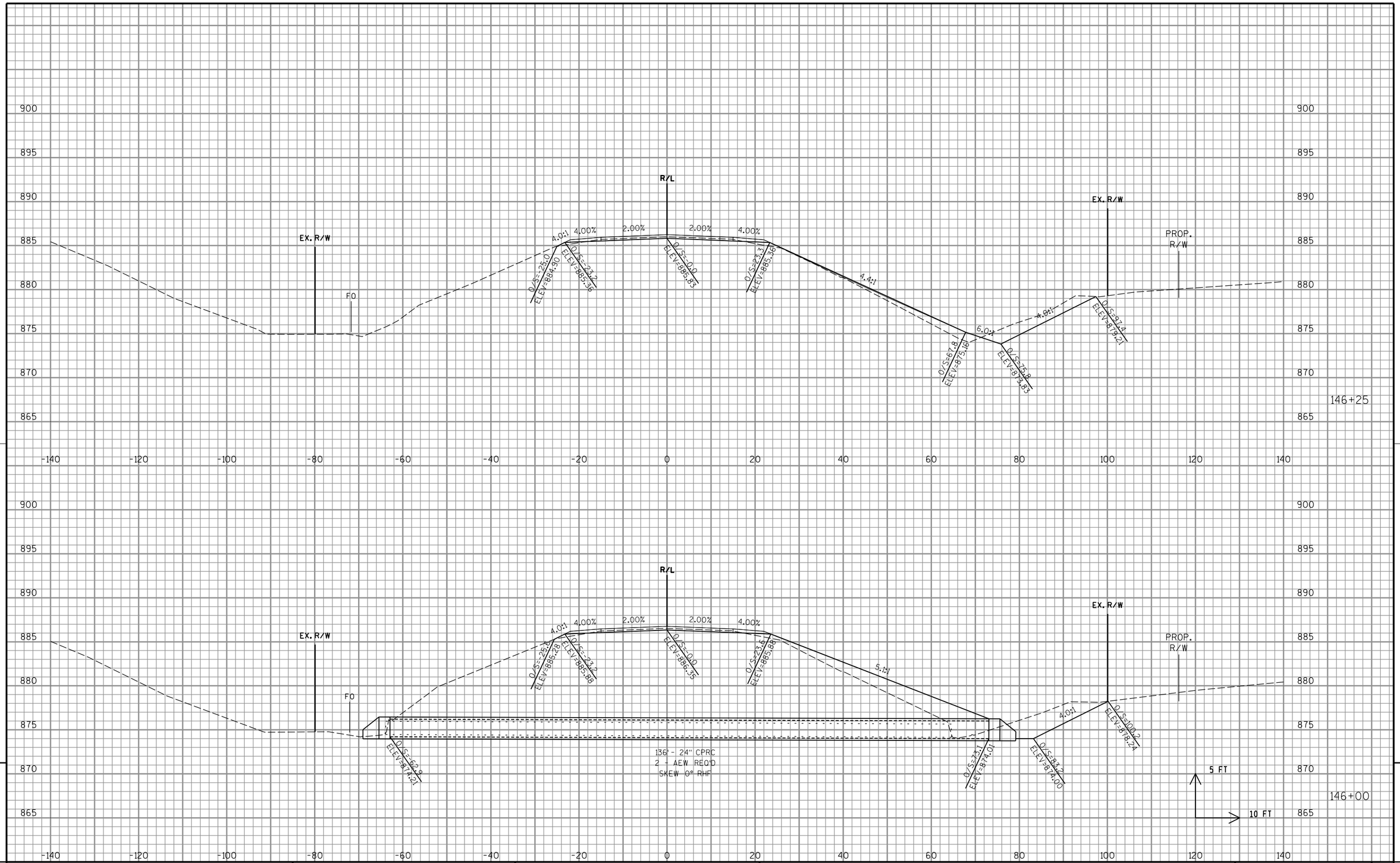
PROJECT NO: 1500-66-71	HWY: USH 10	COUNTY: MANITOWOC	CROSS SECTIONS: USH 10 - CULVERT (STA 146+00)	SHEET 181	E

9

FILE NAME : P:\48xx\4816.DP.13.USH 10.MAN\CADDS\Plan\66 resurfacing\090201_xs.dgn | PLOT DATE : 6/20/2017 | PLOT BY : sgc | PLOT NAME : | PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21



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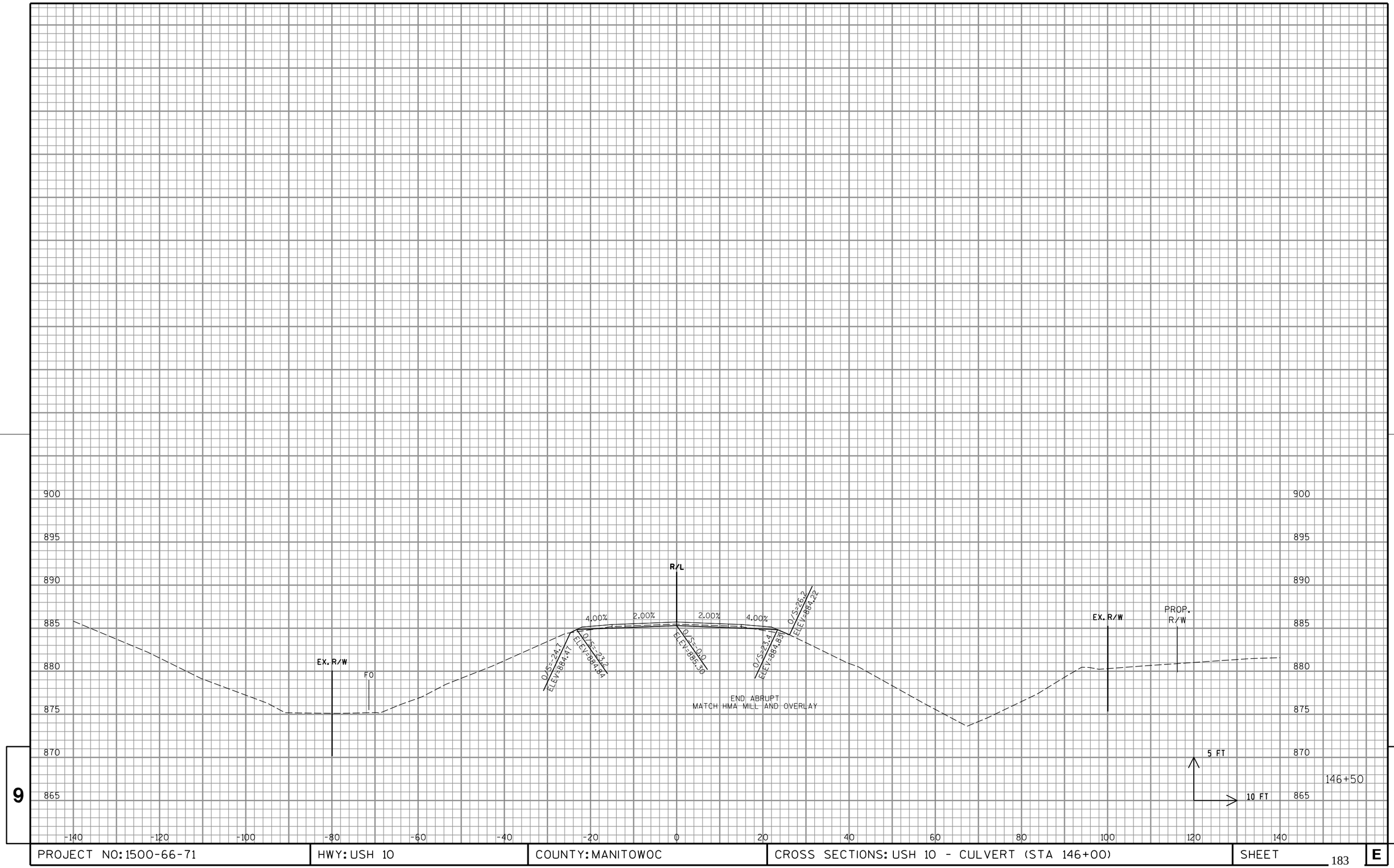
PROJECT NO: 1500-66-71	HWY: USH 10	COUNTY: MANITOWOC	CROSS SECTIONS: USH 10 - CULVERT (STA 146+00)	SHEET 182	E

9

FILE NAME : P:\48xx\4816.DP.13.USH 10.MAN\CADDS\Plan\66 resurfacing\090201_xs.dgn | PLOT DATE : 6/20/2017 | PLOT BY : sgc | PLOT NAME : | PLOT SCALE : 1:20

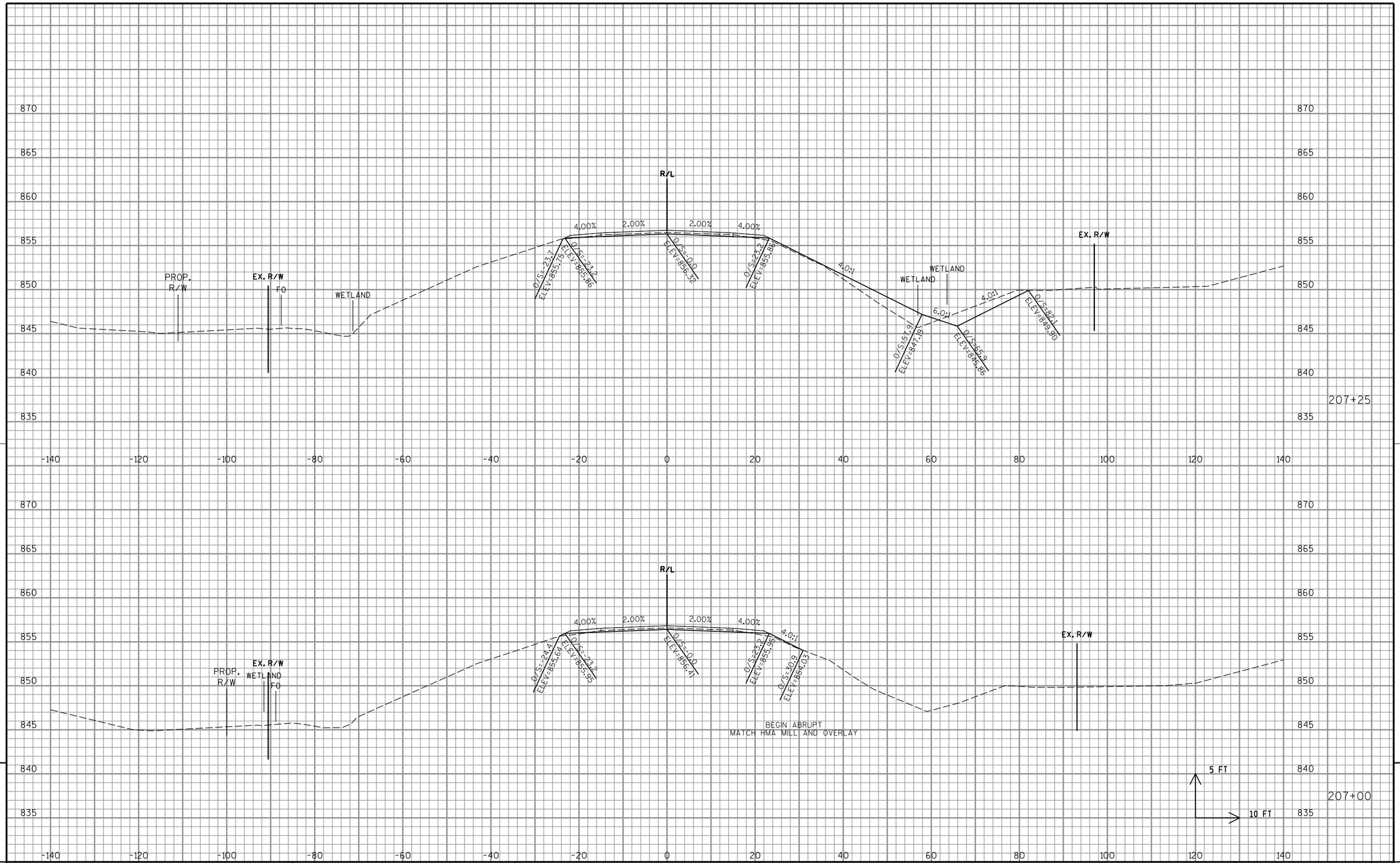
WISDOT/CADDS SHEET 21



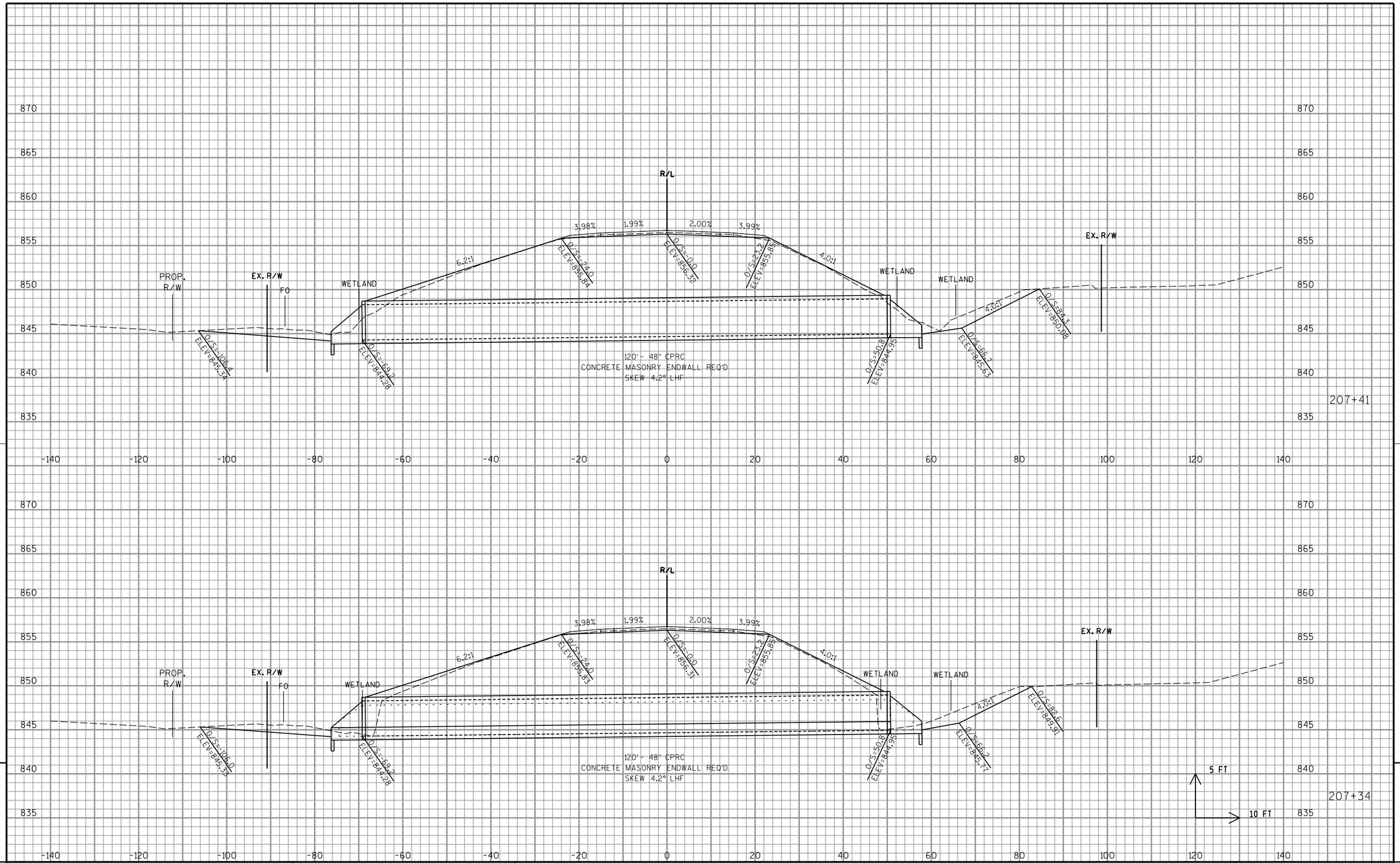
PROJECT NO: 1500-66-71	HWY: USH 10	COUNTY: MANITOWOC	CROSS SECTIONS: USH 10 - CULVERT (STA 146+00)	SHEET 183	E

FILE NAME : P:\48xx\4816.DP.13.USH 10.MAN\CADDS\Plan\66 resurfacing\090201_xs.dgn PLOT DATE : 6/20/2017 PLOT BY : sgc PLOT NAME : PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21



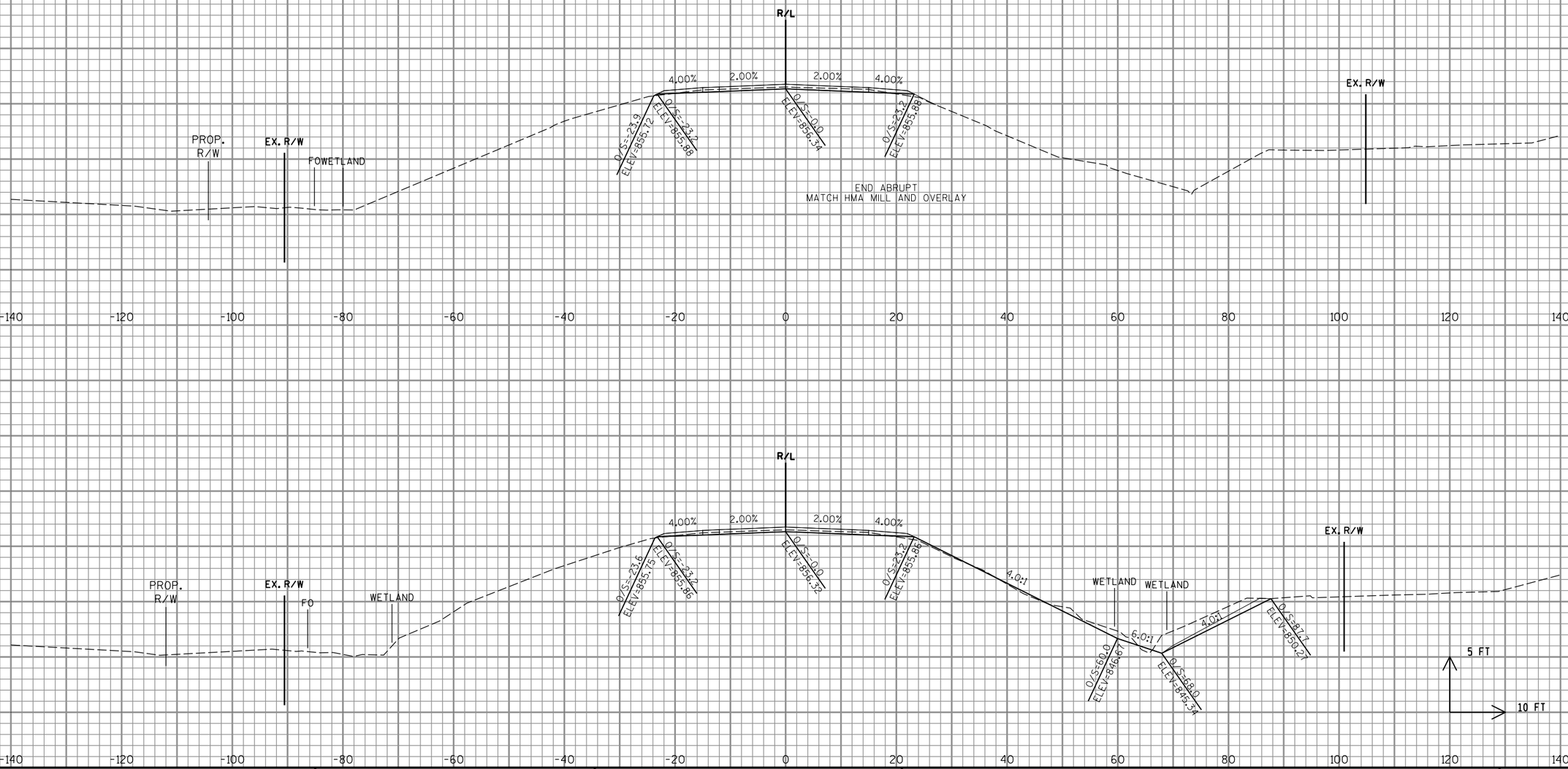
PROJECT NO: 1500-66-71	HWY: USH 10	COUNTY: MANITOWOC	CROSS SECTIONS: USH 10 - CULVERTS (STA 207+34)	SHEET 184	E



PROJECT NO: 1500-66-71	HWY: USH 10	COUNTY: MANITOWOC	CROSS SECTIONS: USH 10 - CULVERTS (STA 207+34)	SHEET 185	E

FILE NAME : P:\48xx\4816.DP.13.USH 10.MAN\CADDS\Plan\66 resurfacing\090201_xs.dgn | PLOT DATE : 6/20/2017 | PLOT BY : sgc | PLOT NAME : | PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21



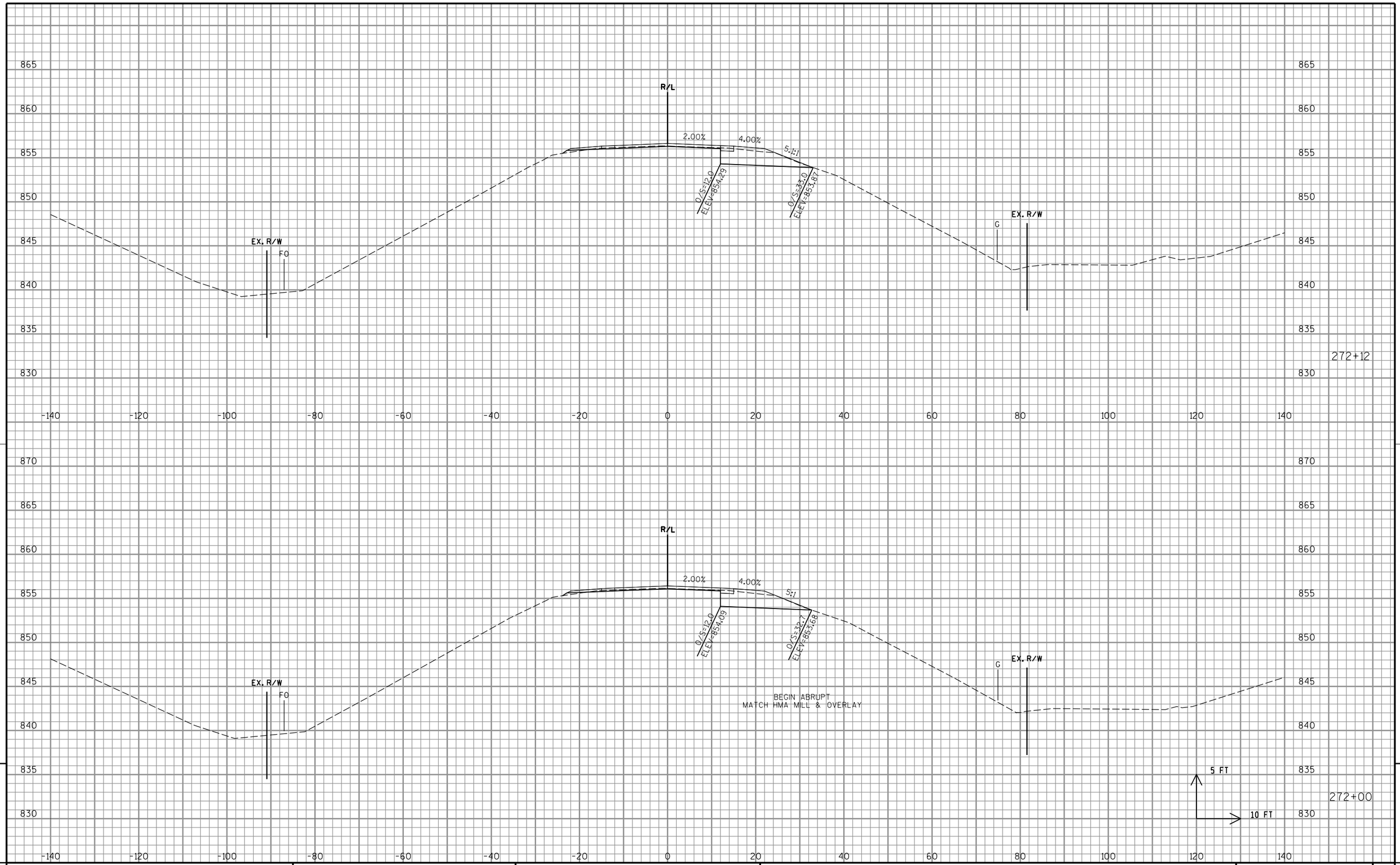
9

9

PROJECT NO: 1500-66-71	HWY: USH 10	COUNTY: MANITOWOC	CROSS SECTIONS: USH 10 - CULVERTS (STA 207+34)	SHEET 186	E

FILE NAME : P:\48xx\4816.DP.13.USH 10.MAN\CADDS\Plan\66 resurfacing\090201_xs.dgn PLOT DATE : 6/20/2017 PLOT BY : sgc PLOT NAME : PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21



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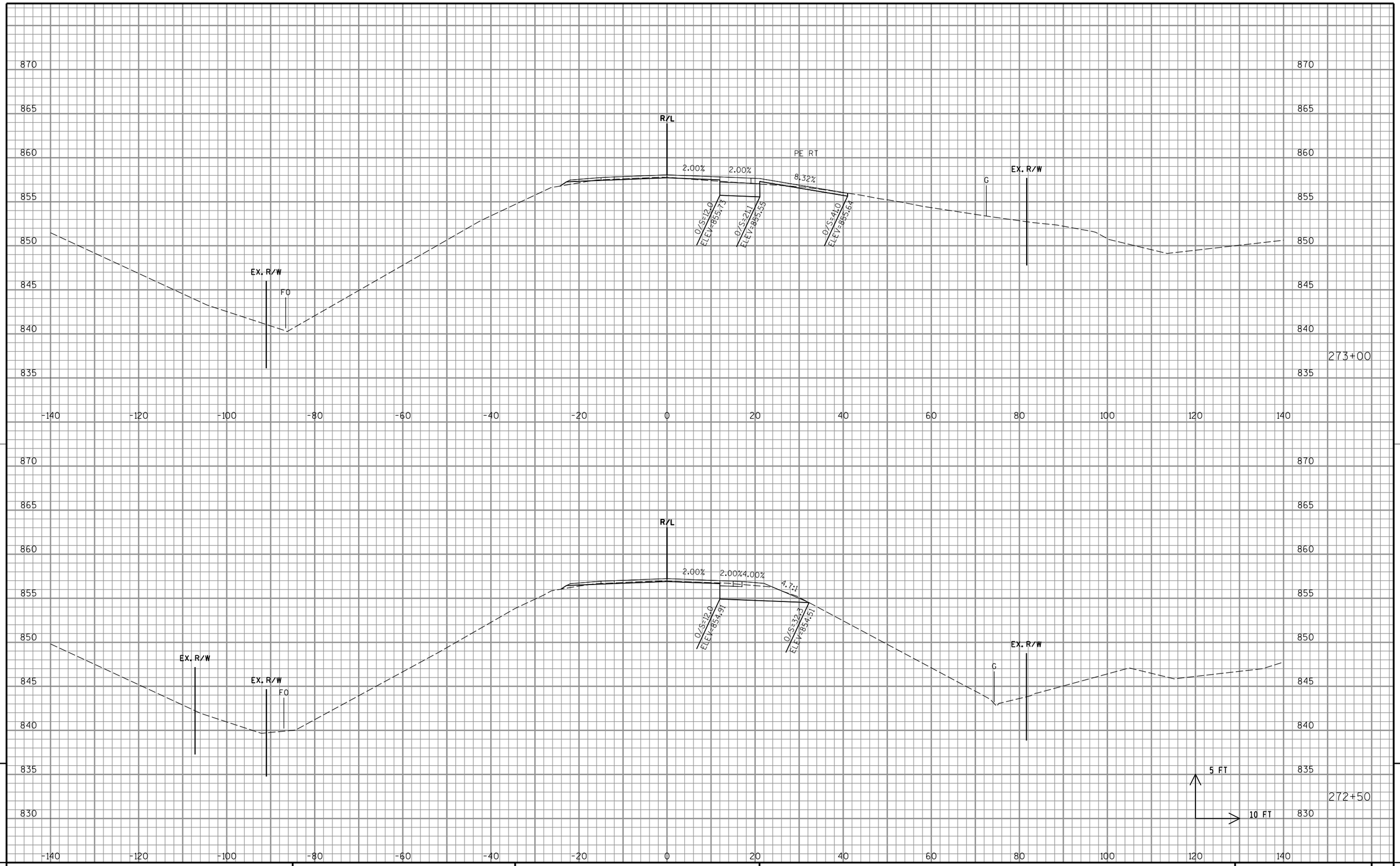
9

PROJECT NO: 1500-66-71	HWY: USH 10	COUNTY: MANITOWOC	CROSS SECTIONS: USH 10 - CTH J (TURN LANE)	SHEET 187	E

FILE NAME : P:\48xx\4816.DP.13.USH 10.MAN\CADDS\Plan\66 resurfacing\090201_xs.dgn PLOT DATE : 6/20/2017 PLOT BY : sgc PLOT NAME : PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21



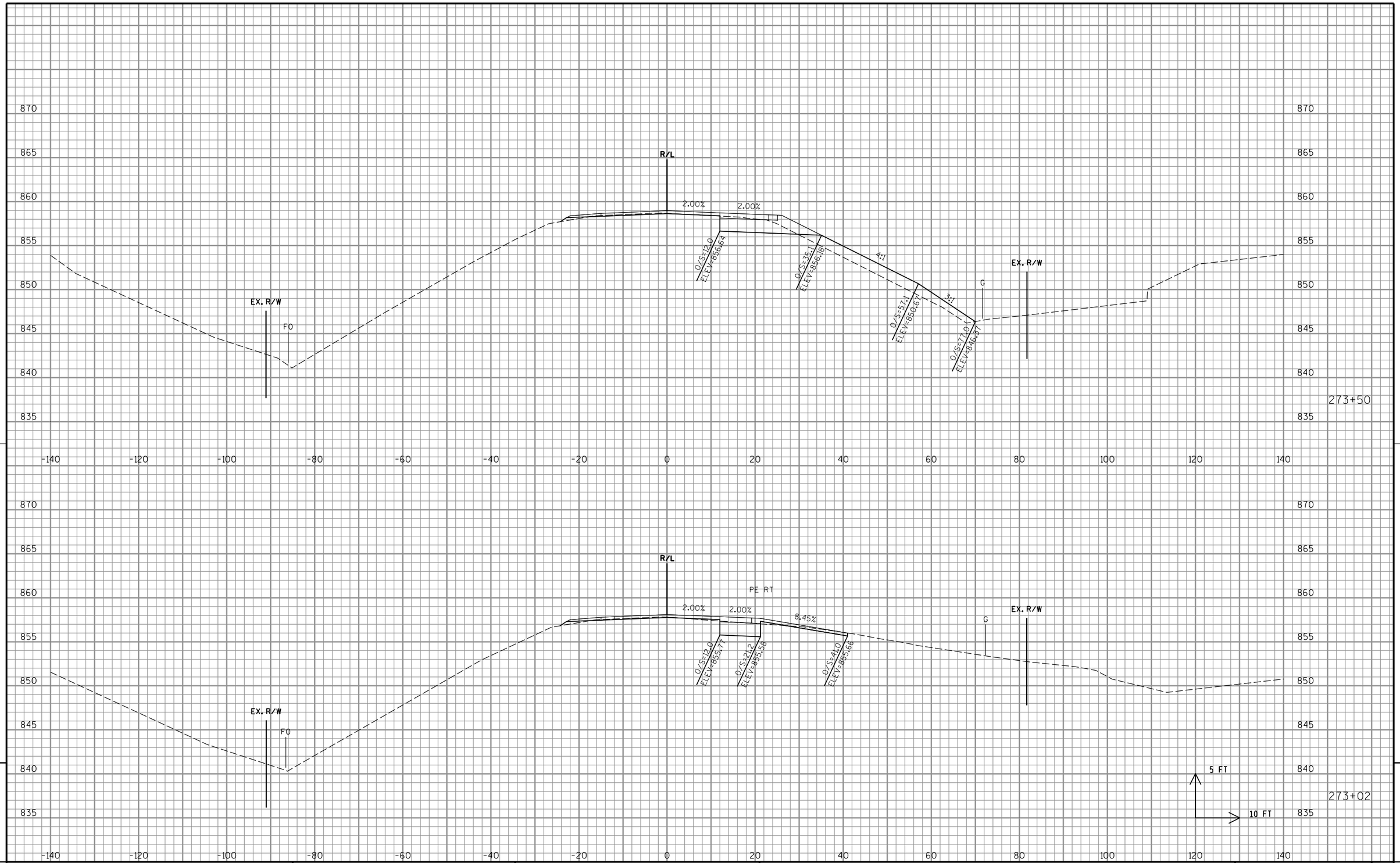
9

9

PROJECT NO: 1500-66-71	HWY: USH 10	COUNTY: MANITOWOC	CROSS SECTIONS: USH 10 - CTH J (TURN LANE)	SHEET 188	E

FILE NAME : P:\48xx\4816.DP.13.USH 10.MAN\CADDS\Plan\66 resurfacing\090201_xs.dgn PLOT DATE : 6/20/2017 PLOT BY : sgc PLOT NAME : PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21



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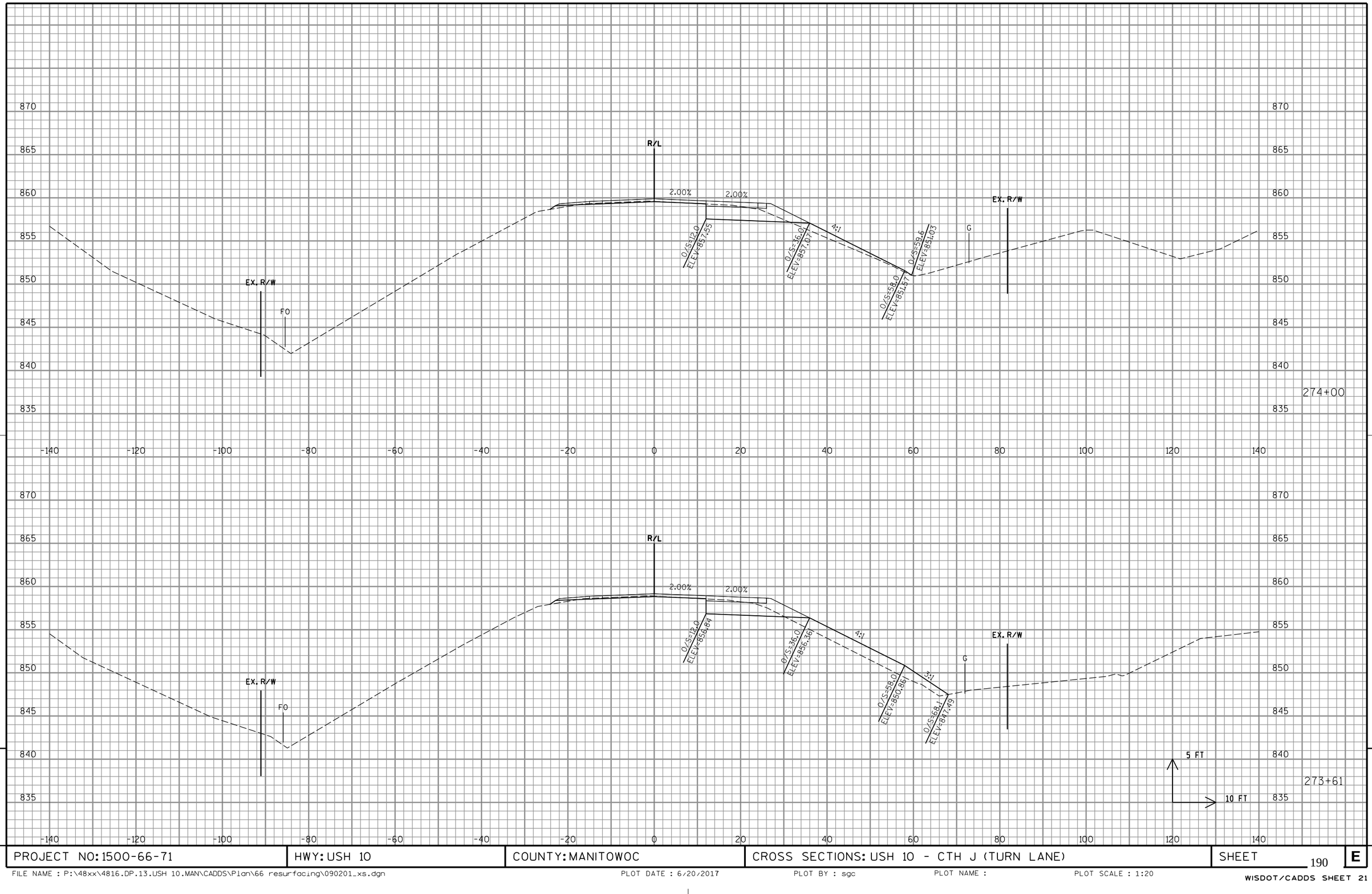
PROJECT NO: 1500-66-71	HWY: USH 10	COUNTY: MANITOWOC	CROSS SECTIONS: USH 10 - CTH J (TURN LANE)	SHEET 189	E

9

FILE NAME : P:\48xx\4816.DP.13.USH 10.MAN\CADDS\Plan\66 resurfacing\090201_xs.dgn PLOT DATE : 6/20/2017 PLOT BY : sgc PLOT NAME : PLOT SCALE : 1:20

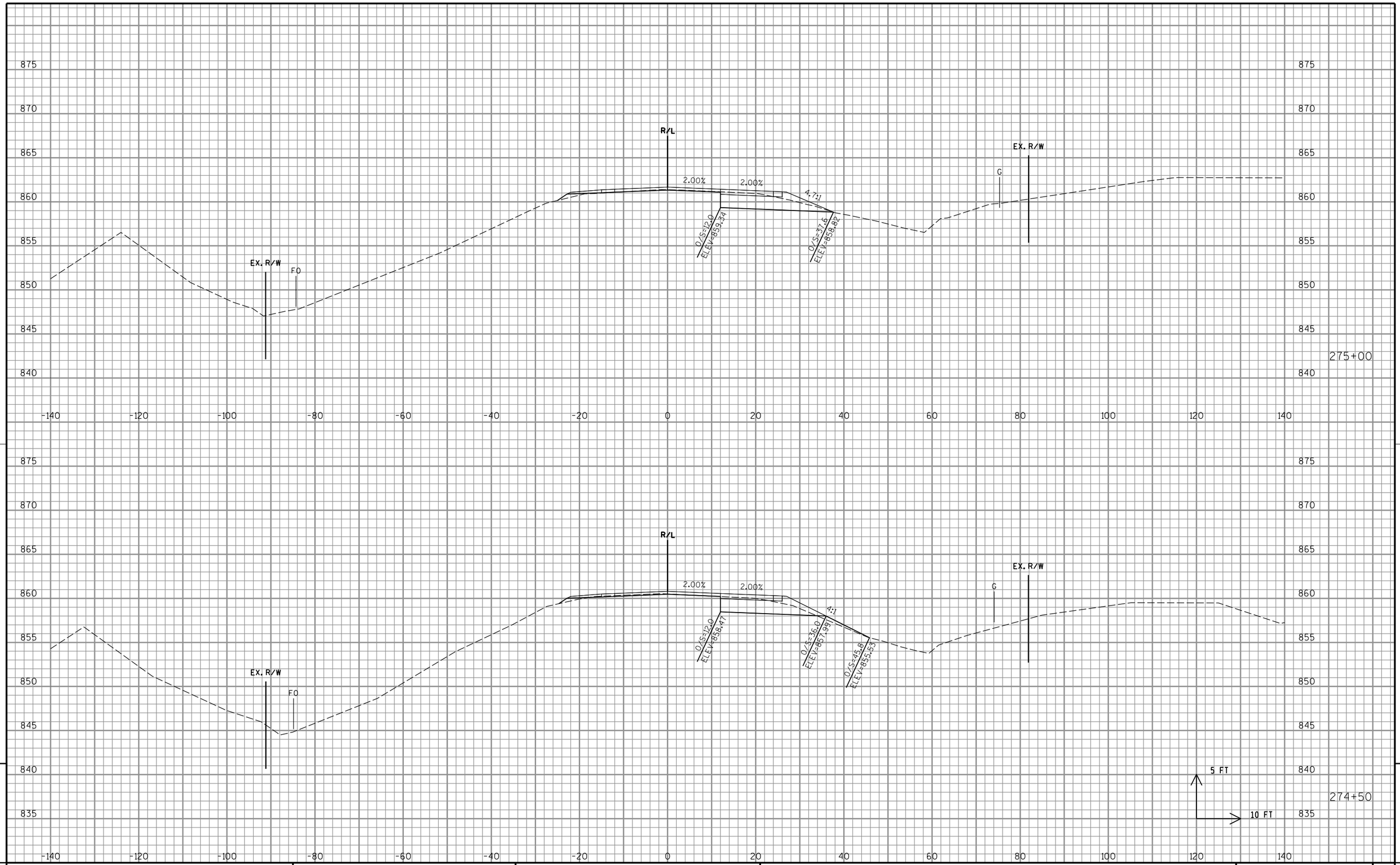
WISDOT/CADDS SHEET 21



PROJECT NO: 1500-66-71	HWY: USH 10	COUNTY: MANITOWOC	CROSS SECTIONS: USH 10 - CTH J (TURN LANE)	SHEET 190	E

FILE NAME : P:\48xx\4816.DP.13.USH 10.MAN\CADDS\Plan\66 resurfacing\090201_xs.dgn | PLOT DATE : 6/20/2017 | PLOT BY : sgc | PLOT NAME : | PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21



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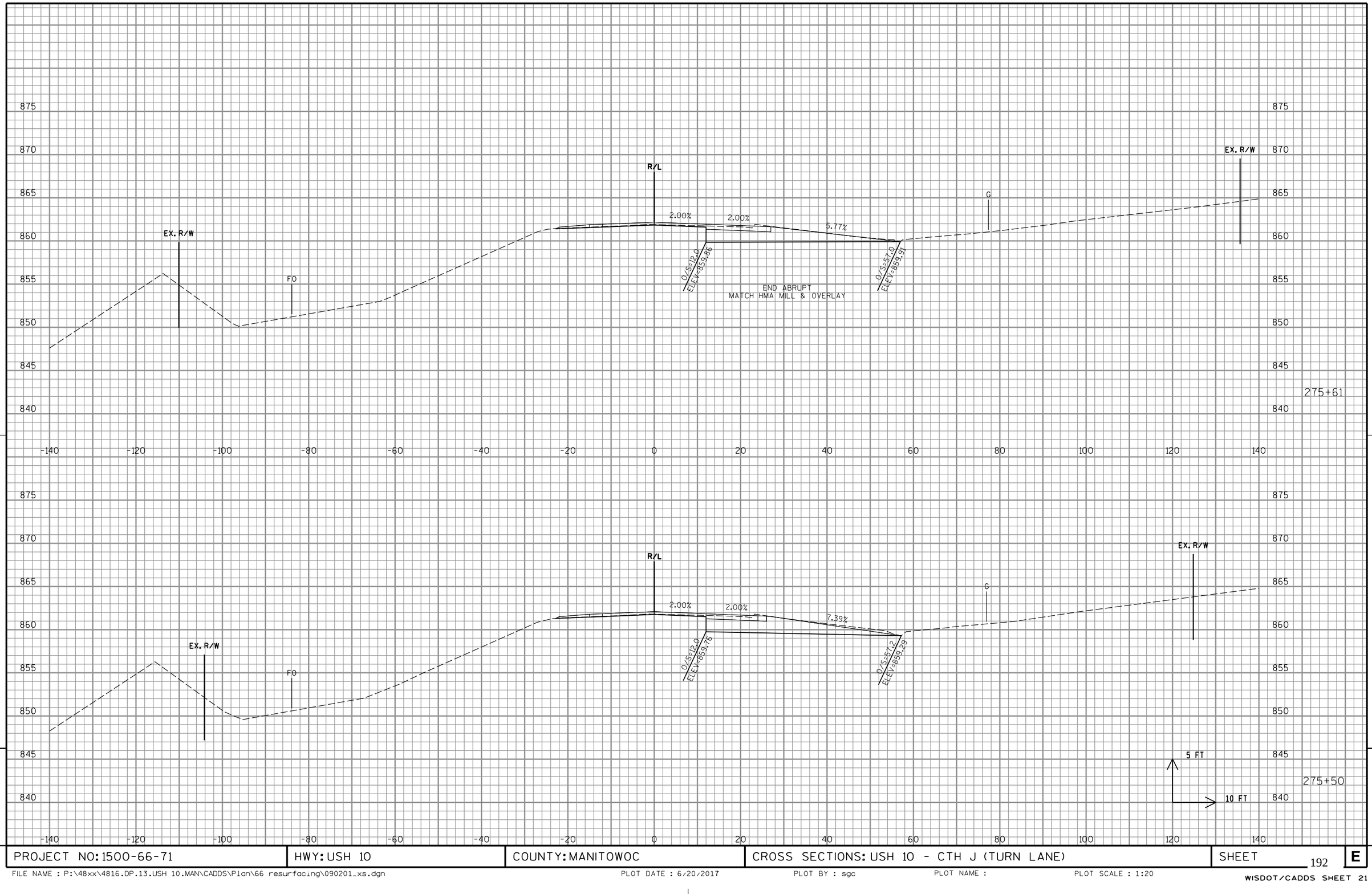
PROJECT NO: 1500-66-71	HWY: USH 10	COUNTY: MANITOWOC	CROSS SECTIONS: USH 10 - CTH J (TURN LANE)	SHEET 191	E

9

FILE NAME : P:\48xx\4816.DP.13.USH 10.MAN\CADDS\Plan\66 resurfacing\090201_xs.dgn PLOT DATE : 6/20/2017 PLOT BY : sgc PLOT NAME : PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21



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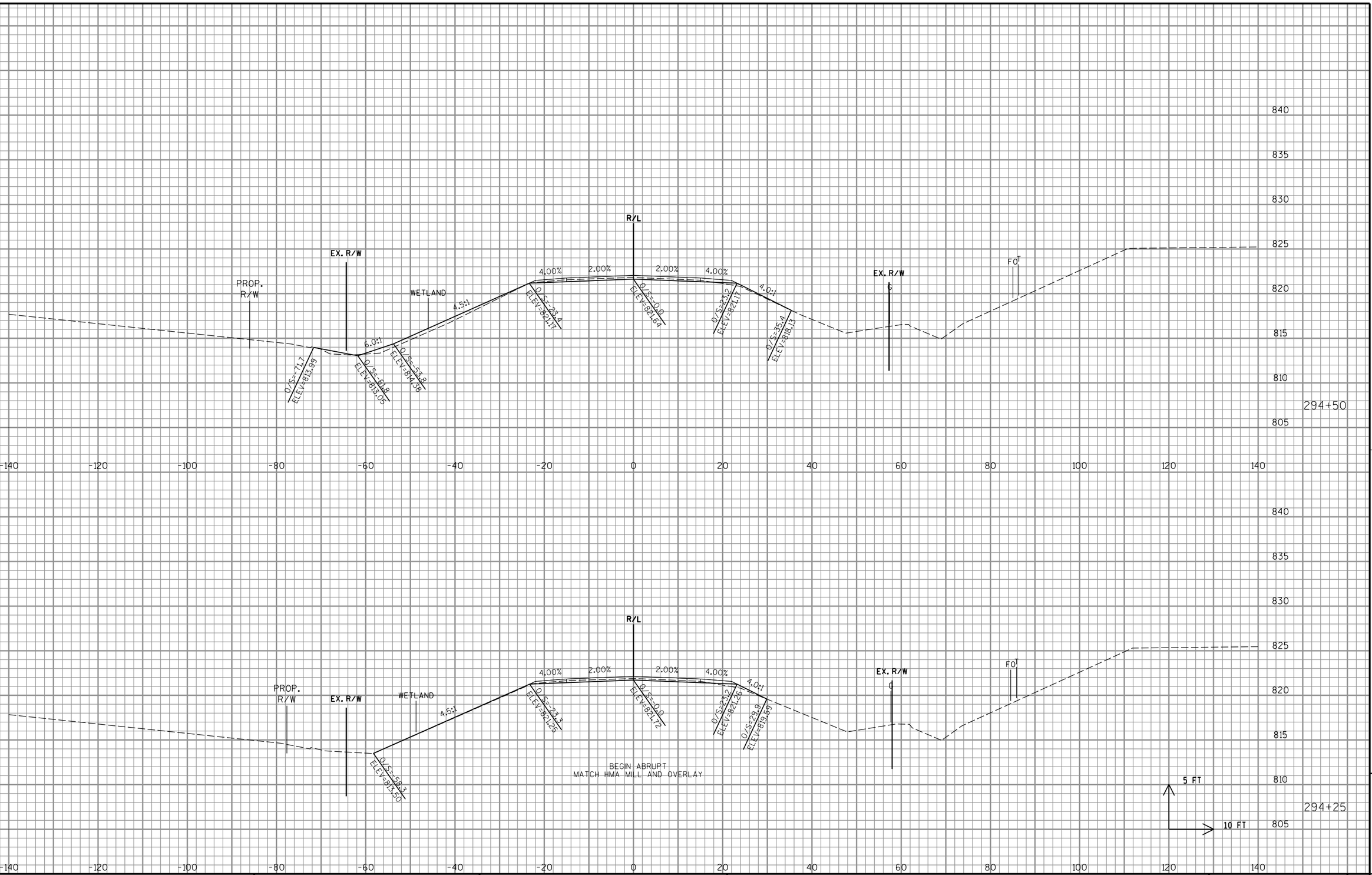
PROJECT NO: 1500-66-71	HWY: USH 10	COUNTY: MANITOWOC	CROSS SECTIONS: USH 10 - CTH J (TURN LANE)	SHEET 192	E

9

FILE NAME : P:\48xx\4816.DP.13.USH 10.MAN\CADDS\Plan\66 resurfacing\090201_xs.dgn
PLOT DATE : 6/20/2017
PLOT BY : sgc
PLOT NAME :
PLOT SCALE : 1:20
WISDOT/CADDS SHEET 21



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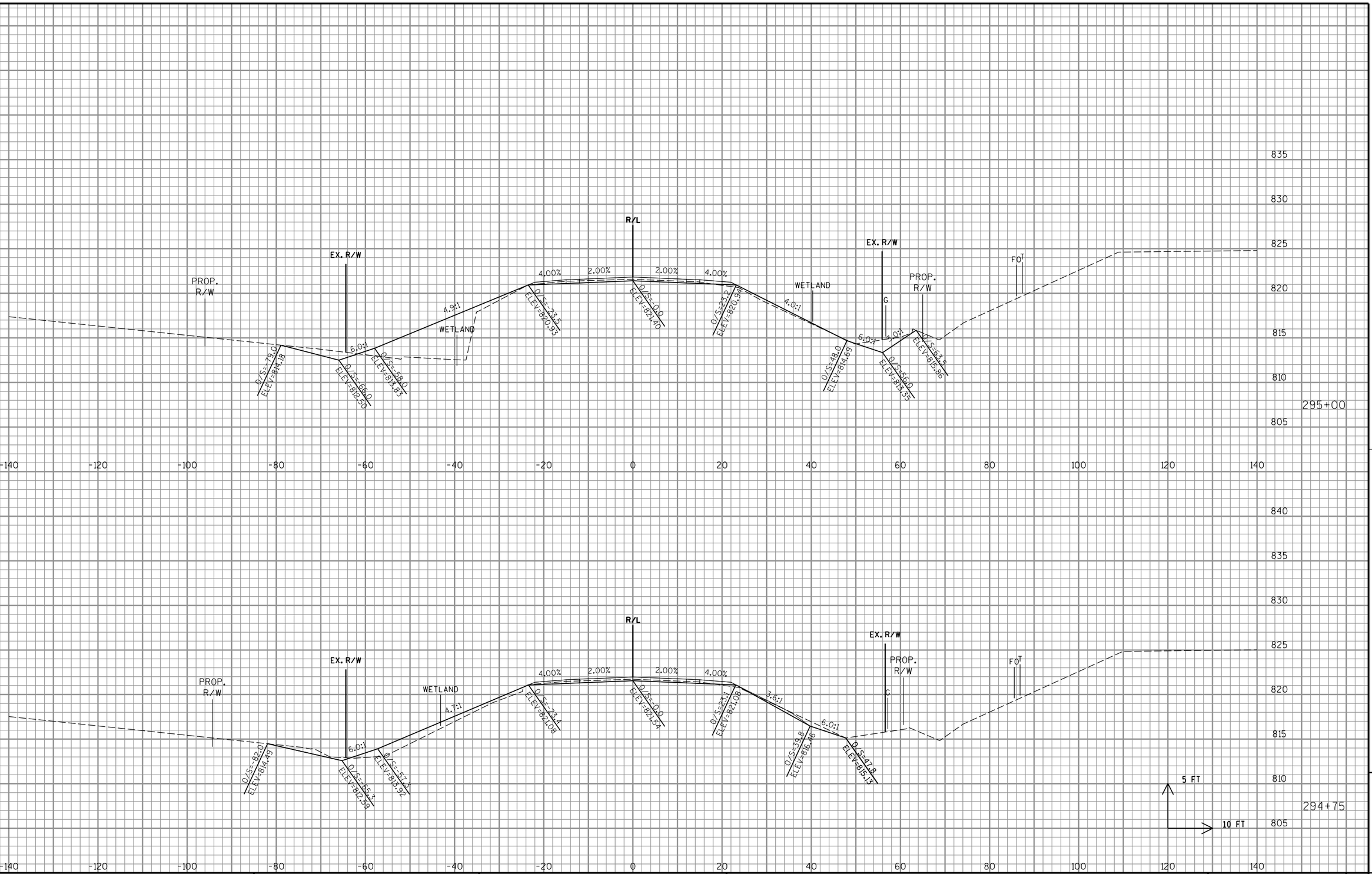
PROJECT NO: 1500-66-71	HWY: USH 10	COUNTY: MANITOWOC	CROSS SECTIONS: USH 10 - CULVERT (STA 295+15)	SHEET 193	E

9

FILE NAME : P:\48xx\4816.DP.13.USH 10.MAN\CADDS\Plan\66 resurfacing\090201_xs.dgn PLOT DATE : 6/20/2017 PLOT BY : sgc PLOT NAME : PLOT SCALE : 1:20

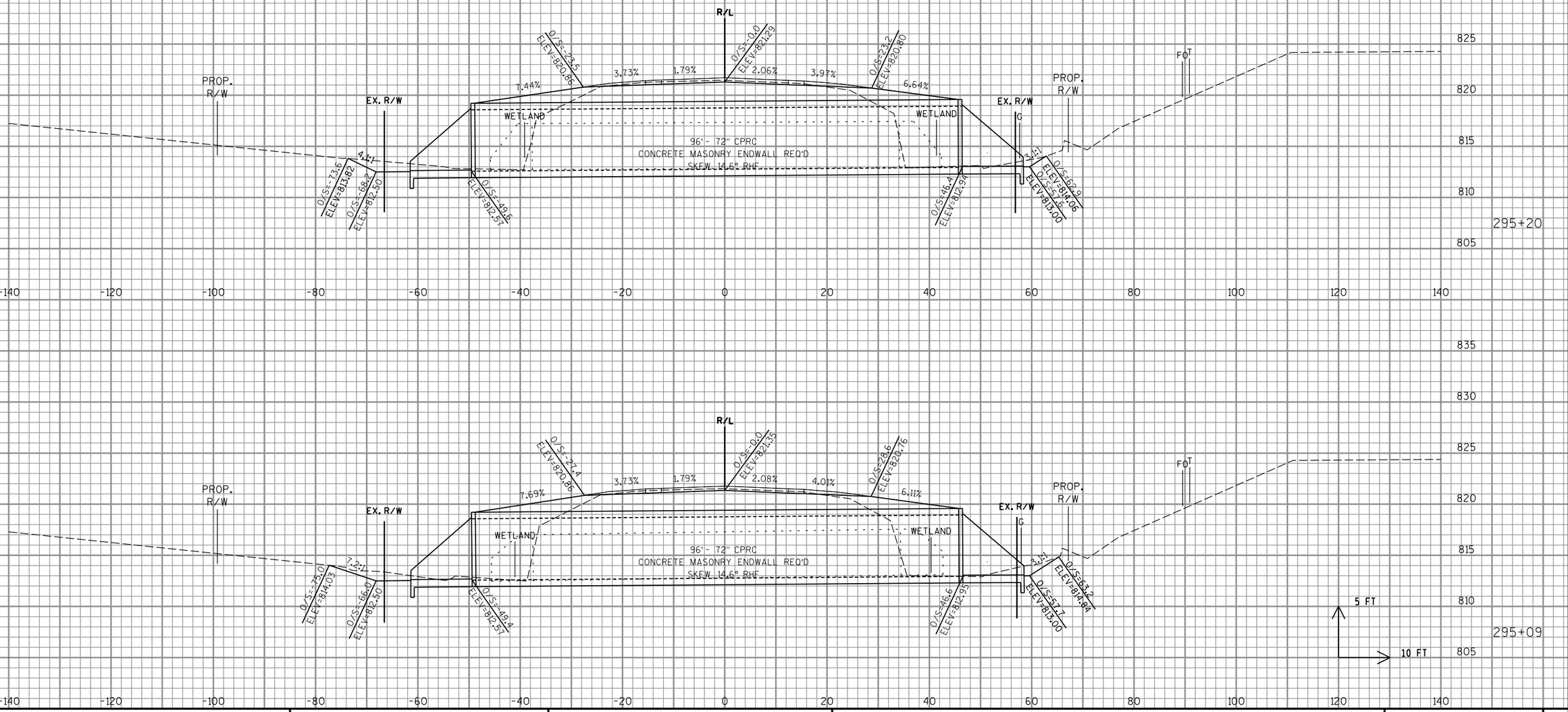
WISDOT/CADDS SHEET 21



PROJECT NO: 1500-66-71	HWY: USH 10	COUNTY: MANITOWOC	CROSS SECTIONS: USH 10 - CULVERT (STA 295+15)	SHEET 194	E

FILE NAME : P:\48xx\4816.DP.13.USH 10.MAN\CADDS\Plan\66 resurfacing\090201_xs.dgn PLOT DATE : 6/20/2017 PLOT BY : sgc PLOT NAME : PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21



295+20

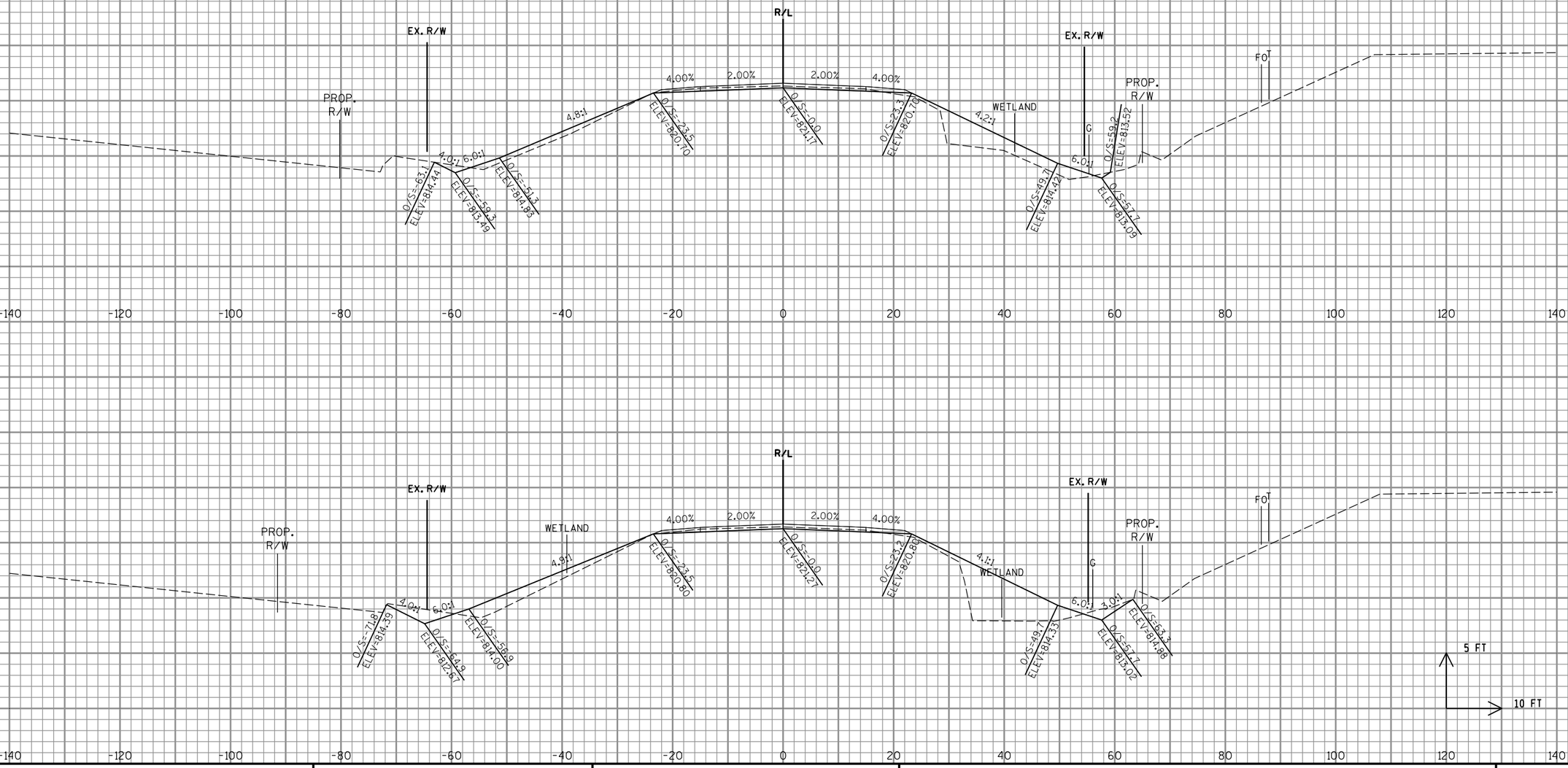
9

9

PROJECT NO: 1500-66-71	HWY: USH 10	COUNTY: MANITOWOC	CROSS SECTIONS: USH 10 - CULVERT (STA 295+15)	SHEET 195	E

FILE NAME : P:\48xx\4816.DP.13.USH 10.MAN\CADDS\Plan\66 resurfacing\090201_xs.dgn PLOT DATE : 6/20/2017 PLOT BY : sgc PLOT NAME : PLOT SCALE : 1:20

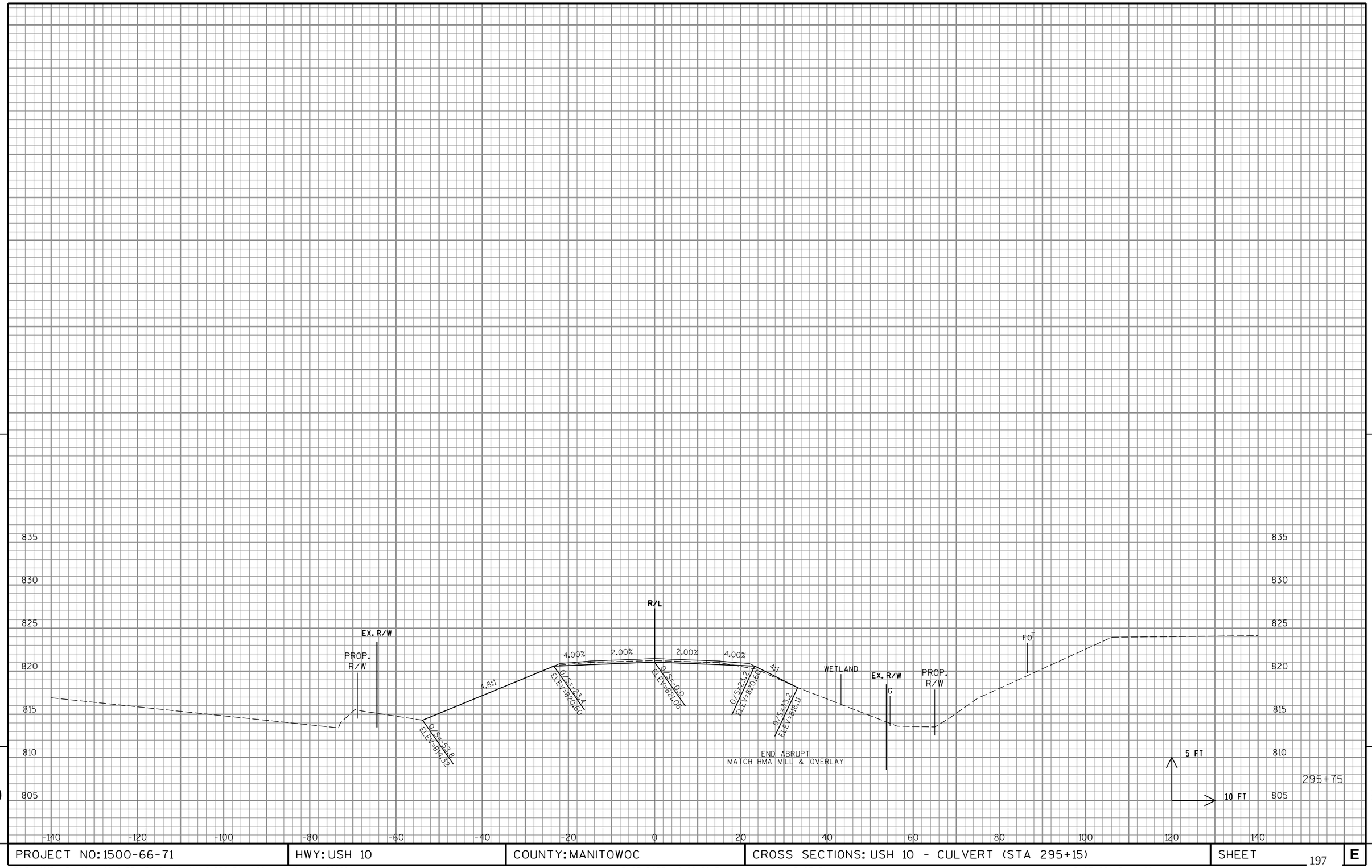
WISDOT/CADDS SHEET 21



PROJECT NO: 1500-66-71	HWY: USH 10	COUNTY: MANITOWOC	CROSS SECTIONS: USH 10 - CULVERT (STA 295+15)	SHEET 196	E

FILE NAME : P:\48xx\4816.DP.13.USH 10.MAN\CADDS\Plan\66 resurfacing\090201_xs.dgn PLOT DATE : 6/20/2017 PLOT BY : sgc PLOT NAME : PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21



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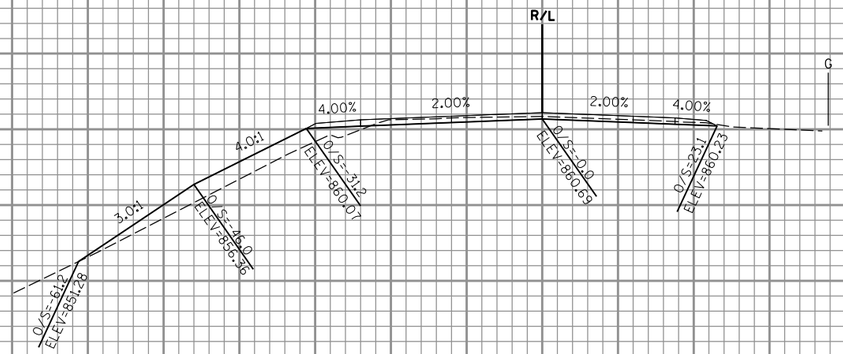
PROJECT NO: 1500-66-71	HWY: USH 10	COUNTY: MANITOWOC	CROSS SECTIONS: USH 10 - CULVERT (STA 295+15)	SHEET 197	E

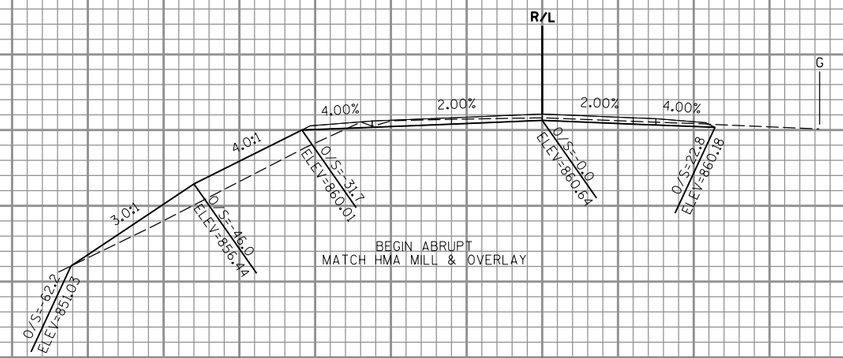
9

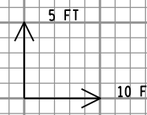
FILE NAME : P:\48xx\4816.DP.13.USH 10.MAN\CADDS\Plan\66 resurfacing\090201_xs.dgn | PLOT DATE : 6/20/2017 | PLOT BY : sgc | PLOT NAME : | PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21



395+73





395+61

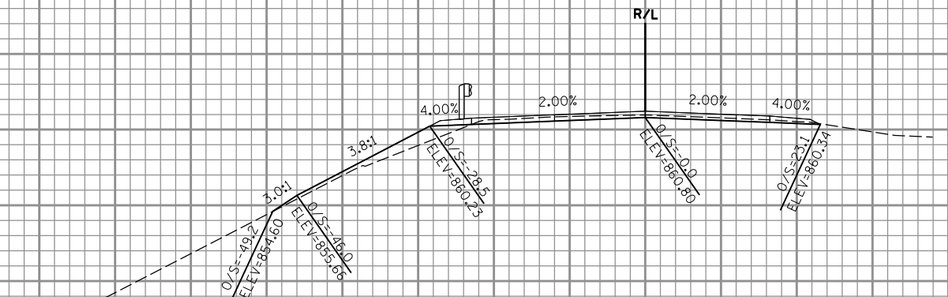
9

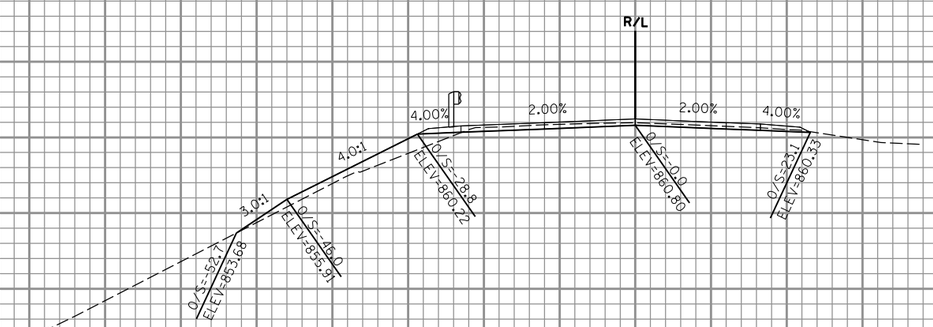
9

PROJECT NO: 1500-66-71	HWY: USH 10	COUNTY: MANITOWOC	CROSS SECTIONS: USH 10 - GUARDRAIL	SHEET 198	E

FILE NAME : P:\48xx\4816.DP.13.USH 10.MAN\CADDS\Plan\66 resurfacing\090201_xs.dgn PLOT DATE : 6/20/2017 PLOT BY : sgc PLOT NAME : PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21





396+00

395+98

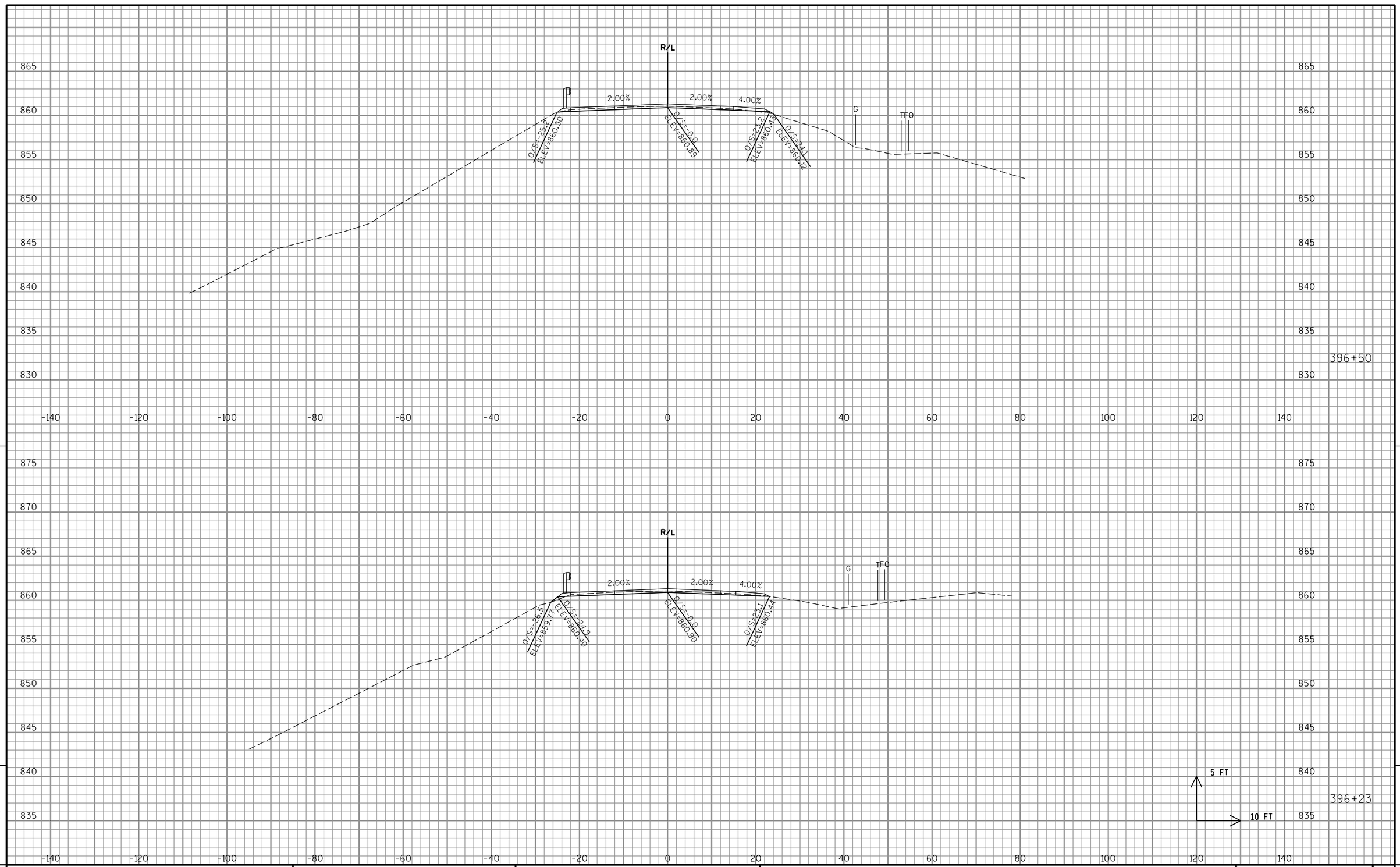
9

9

PROJECT NO: 1500-66-71	HWY: USH 10	COUNTY: MANITOWOC	CROSS SECTIONS: USH 10 - GUARDRAIL	SHEET 199	E

FILE NAME : P:\48xx\4816.DP.13.USH 10.MAN\CADDS\Plan\66 resurfacing\090201_xs.dgn PLOT DATE : 6/20/2017 PLOT BY : sgc PLOT NAME : PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21



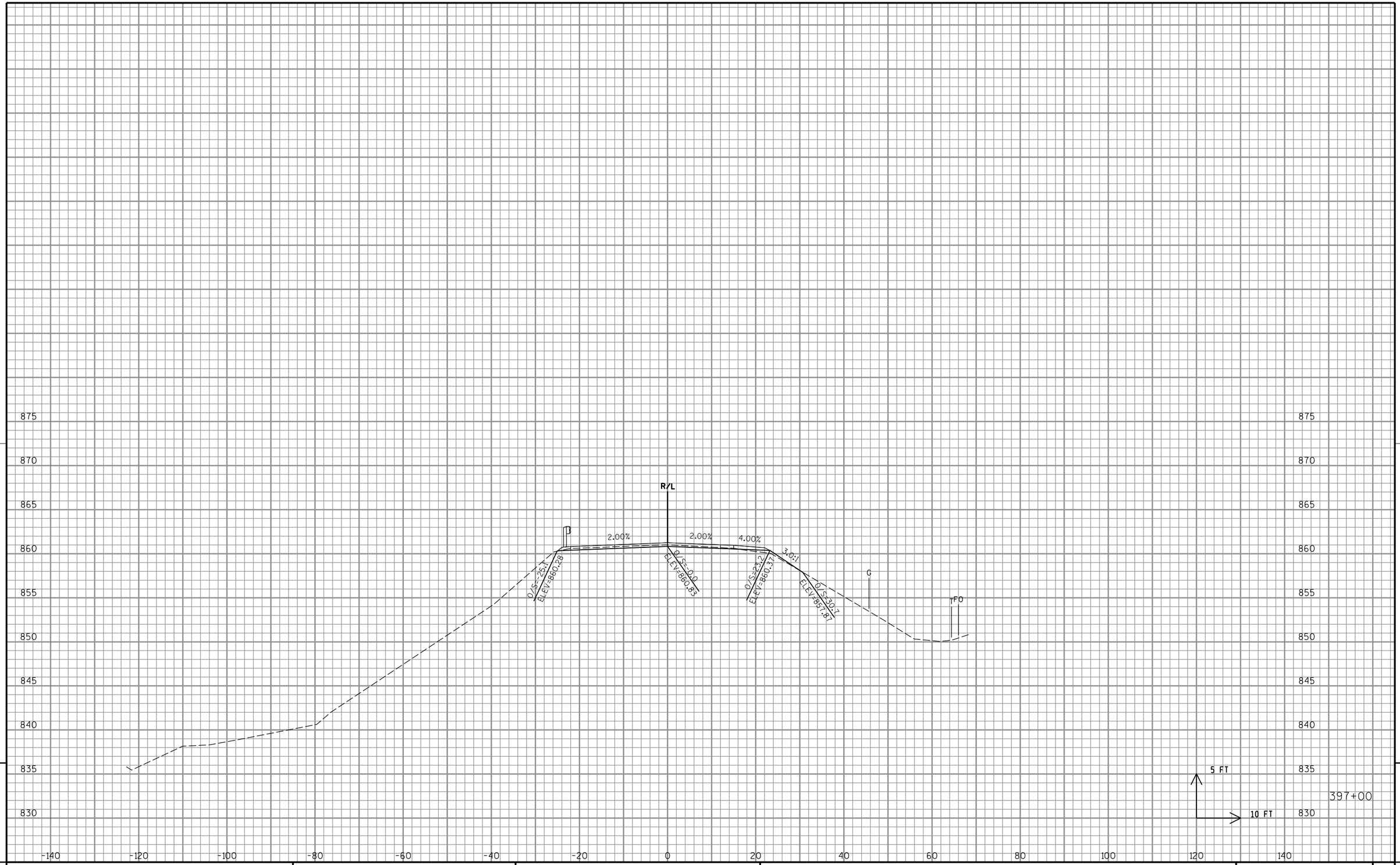
9

PROJECT NO: 1500-66-71	HWY: USH 10	COUNTY: MANITOWOC	CROSS SECTIONS: USH 10 - GUARDRAIL	SHEET 200	E

FILE NAME : P:\48xx\4816.DP.13.USH 10.MAN\CADDS\Plan\66 resurfacing\090201_xs.dgn PLOT DATE : 6/20/2017 PLOT BY : sgc PLOT NAME : PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21

9



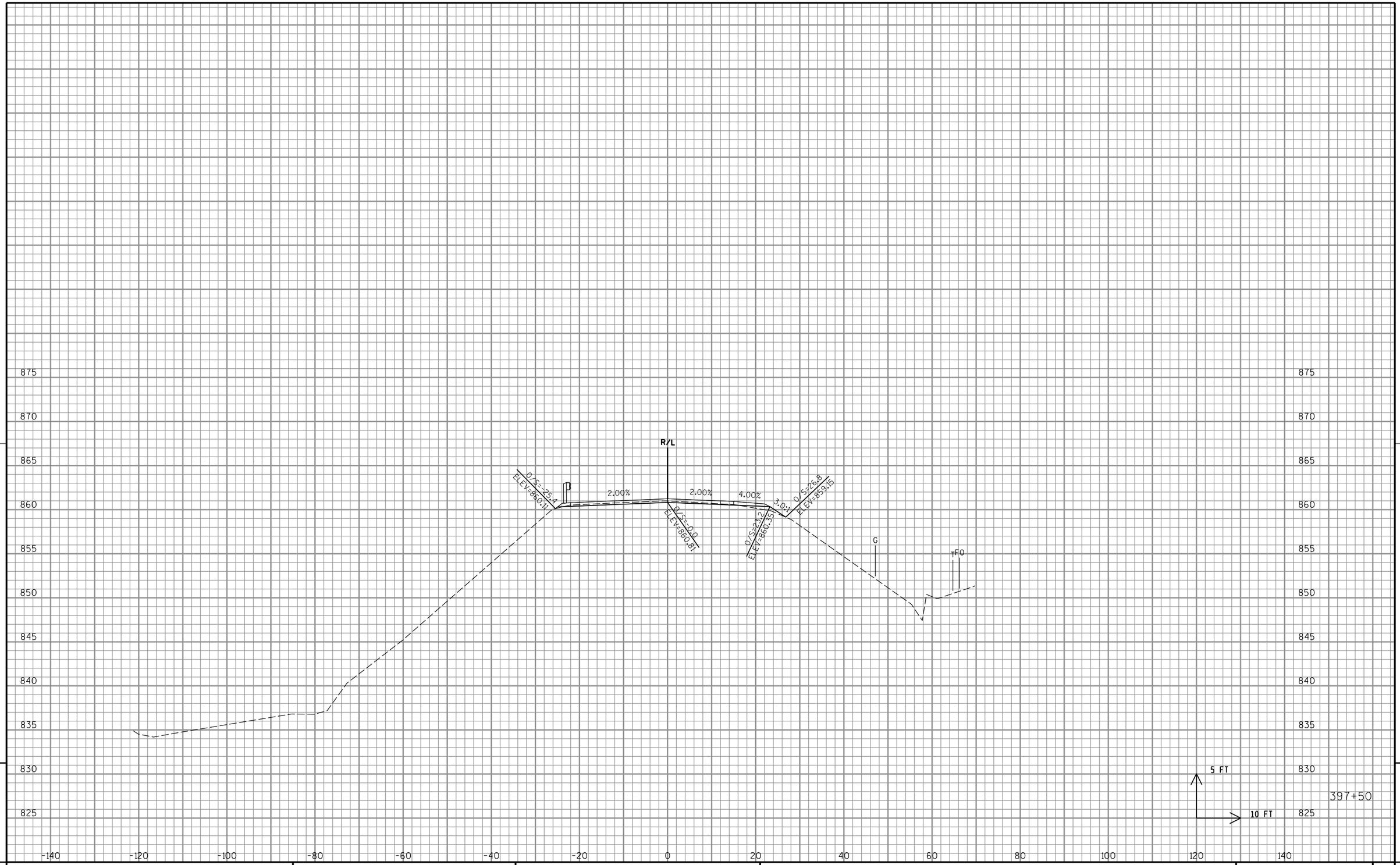
9

9

PROJECT NO: 1500-66-71	HWY: USH 10	COUNTY: MANITOWOC	CROSS SECTIONS: USH 10 - GUARDRAIL	SHEET 201	E

FILE NAME : P:\48xx\4816.DP.13.USH 10.MAN\CADDS\Plan\66 resurfacing\090201_xs.dgn | PLOT DATE : 6/20/2017 | PLOT BY : sgc | PLOT NAME : | PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21



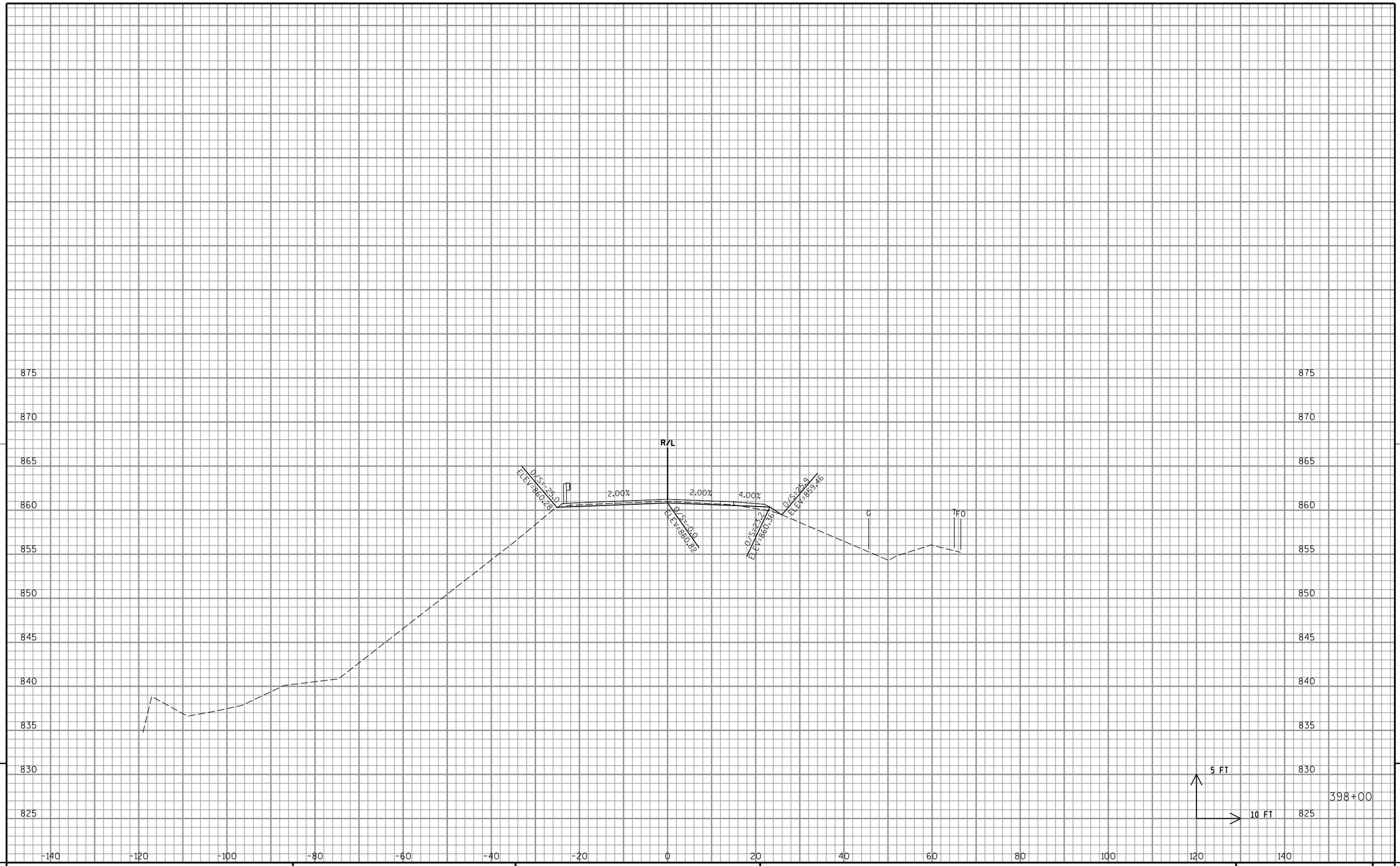
9

9

PROJECT NO: 1500-66-71	HWY: USH 10	COUNTY: MANITOWOC	CROSS SECTIONS: USH 10 - GUARDRAIL	SHEET 202	E

FILE NAME : P:\48xx\4816.DP.13.USH 10.MAN\CADDS\Plan\66 resurfacing\090201_xs.dgn | PLOT DATE : 6/20/2017 | PLOT BY : sgc | PLOT NAME : | PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21



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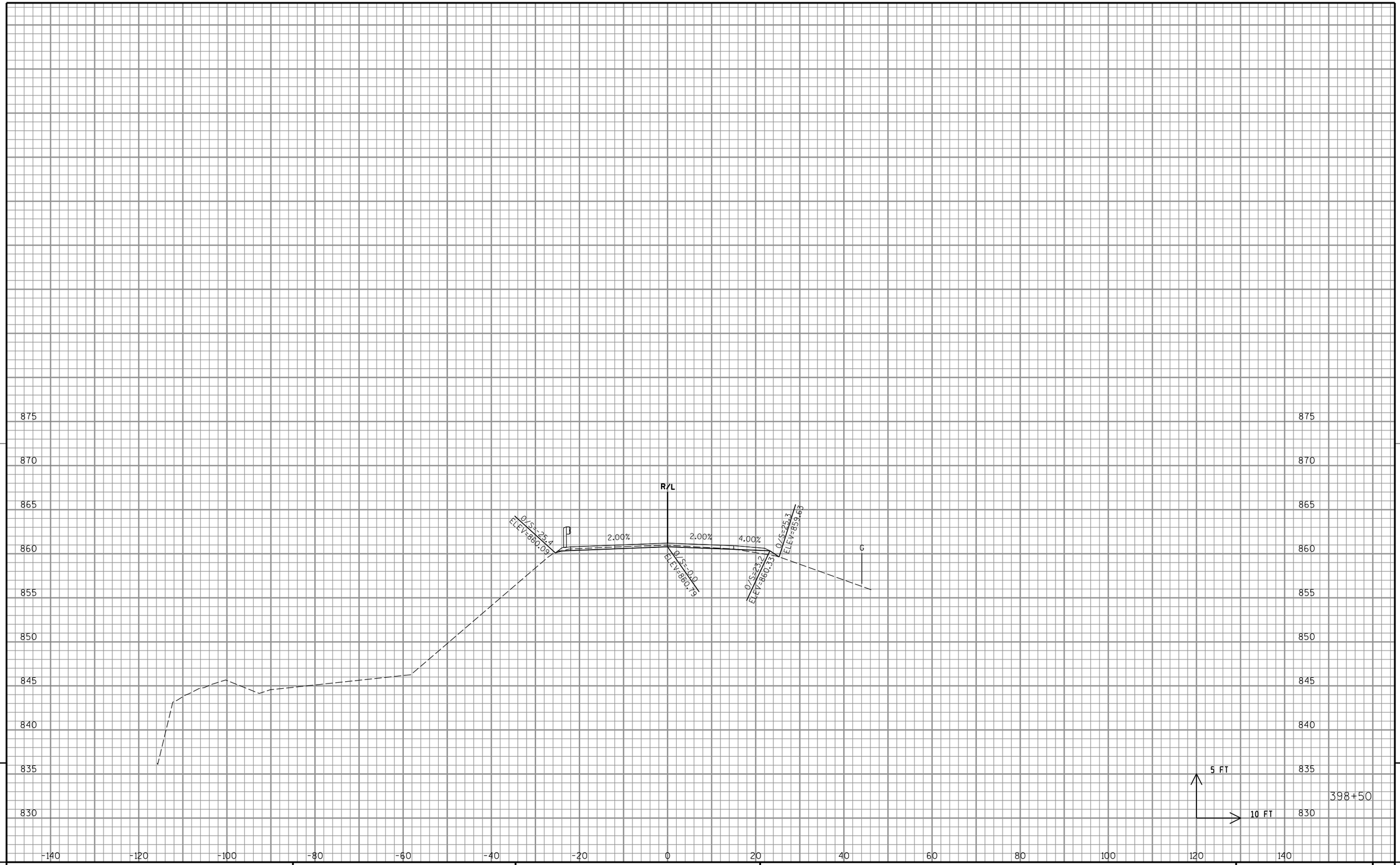
9

PROJECT NO: 1500-66-71	HWY: USH 10	COUNTY: MANITOWOC	CROSS SECTIONS: USH 10 - GUARDRAIL	SHEET 203	E



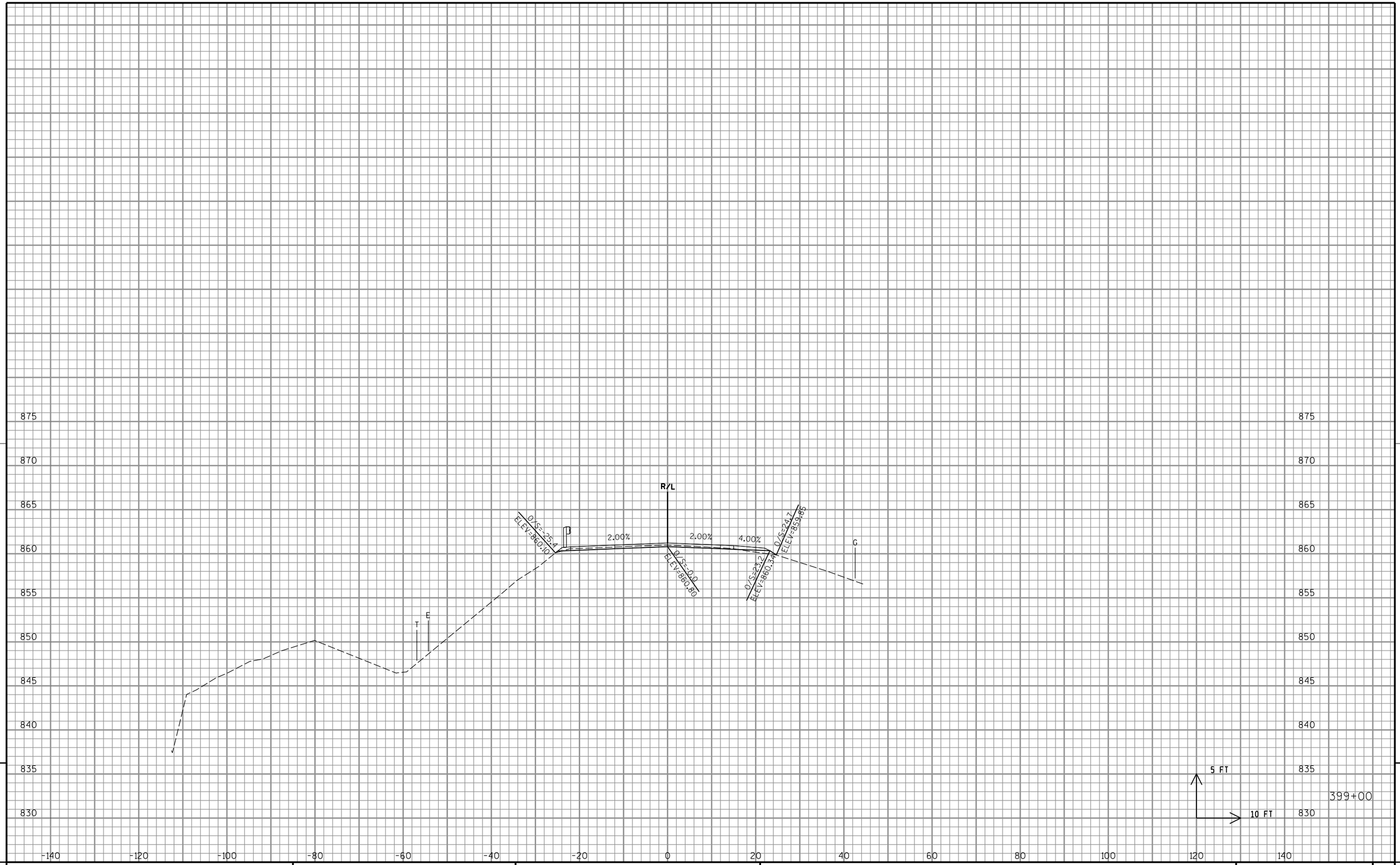
9

9

PROJECT NO: 1500-66-71	HWY: USH 10	COUNTY: MANITOWOC	CROSS SECTIONS: USH 10 - GUARDRAIL	SHEET 204	E

FILE NAME : P:\48xx\4816.DP.13.USH 10.MAN\CADDS\Plan\66 resurfacing\090201_xs.dgn PLOT DATE : 6/20/2017 PLOT BY : sgc PLOT NAME : PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21



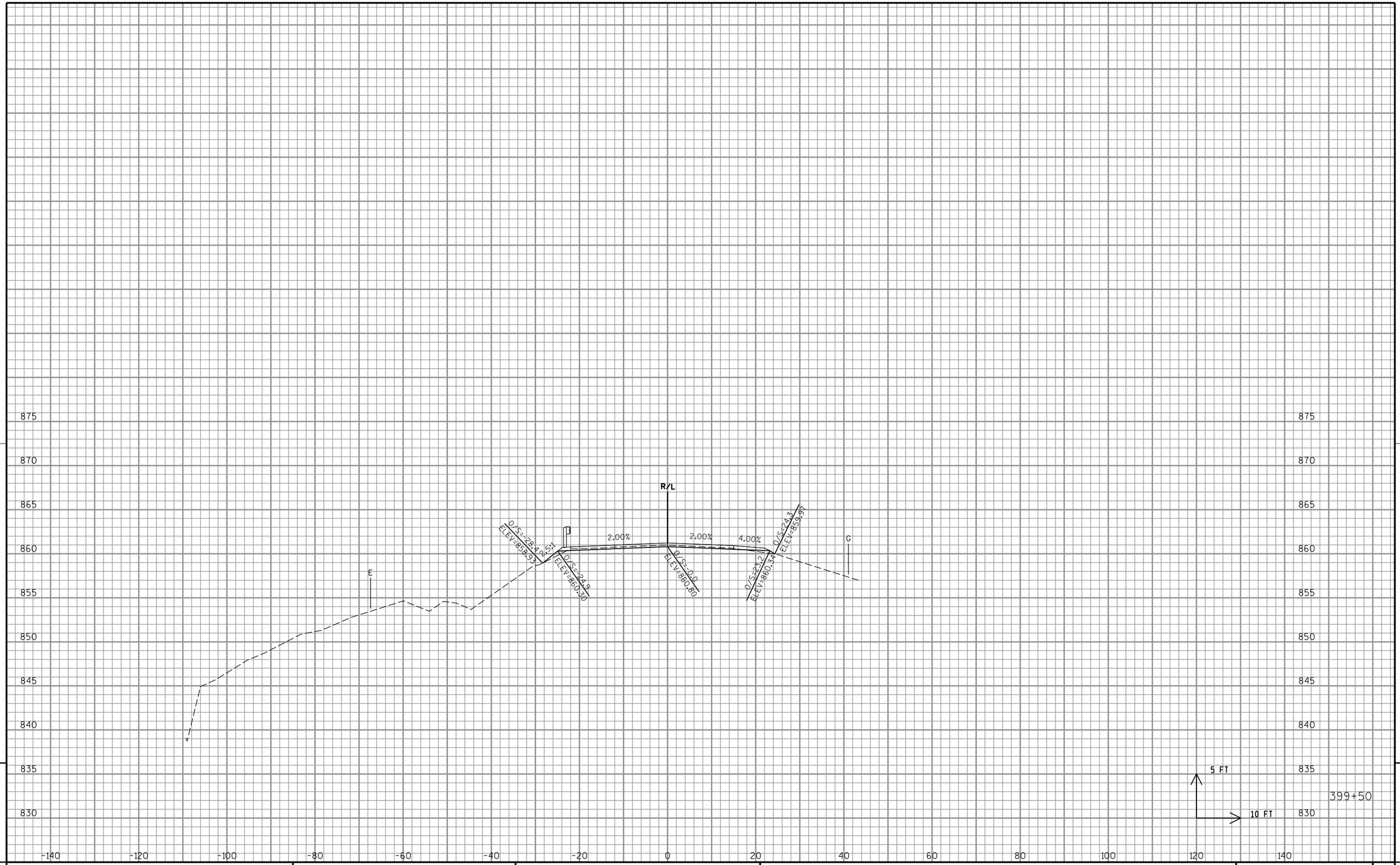
9

9

PROJECT NO: 1500-66-71	HWY: USH 10	COUNTY: MANITOWOC	CROSS SECTIONS: USH 10 - GUARDRAIL	SHEET 205	E

FILE NAME : P:\48xx\4816.DP.13.USH 10.MAN\CADDS\Plan\66 resurfacing\090201_xs.dgn PLOT DATE : 6/20/2017 PLOT BY : sgc PLOT NAME : PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21



9

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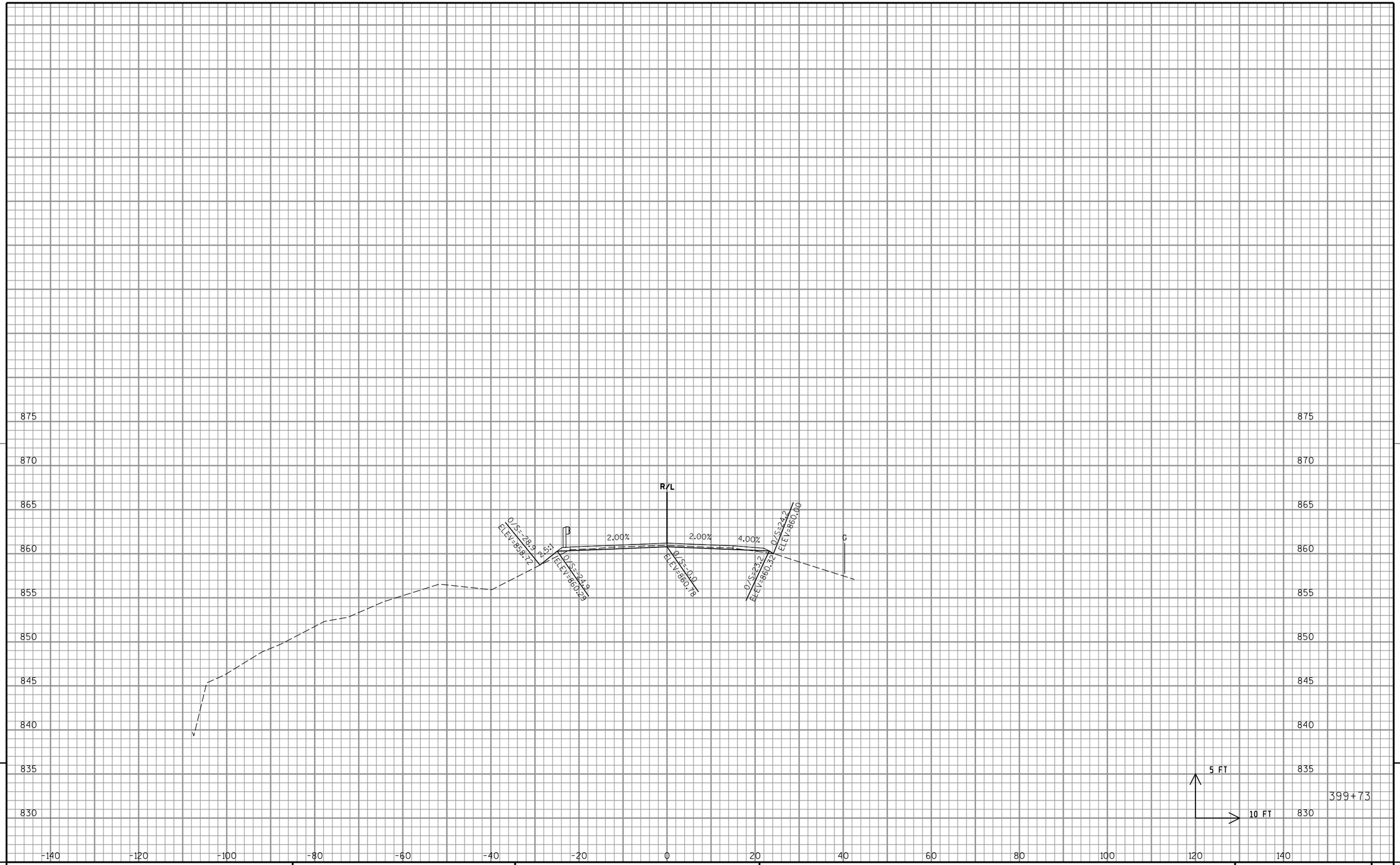
PROJECT NO: 1500-66-71	HWY: USH 10	COUNTY: MANITOWOC	CROSS SECTIONS: USH 10 - GUARDRAIL	SHEET 206	E



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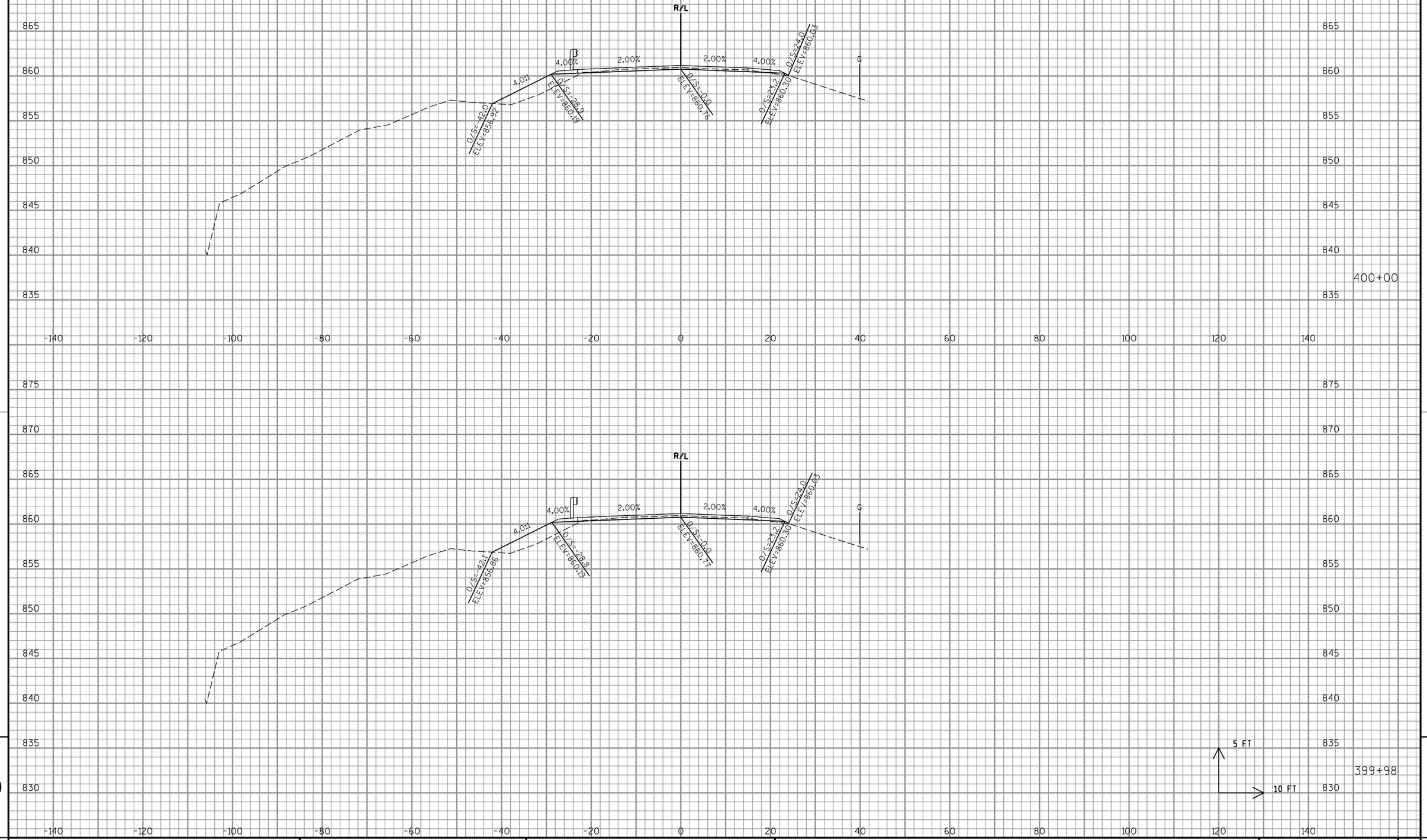
PROJECT NO: 1500-66-71	HWY: USH 10	COUNTY: MANITOWOC	CROSS SECTIONS: USH 10 - GUARDRAIL	SHEET 207	E

FILE NAME : P:\48xx\4816.DP.13.USH 10.MAN\CADDS\Plan\66 resurfacing\090201_xs.dgn PLOT DATE : 6/20/2017 PLOT BY : sgc PLOT NAME : PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21



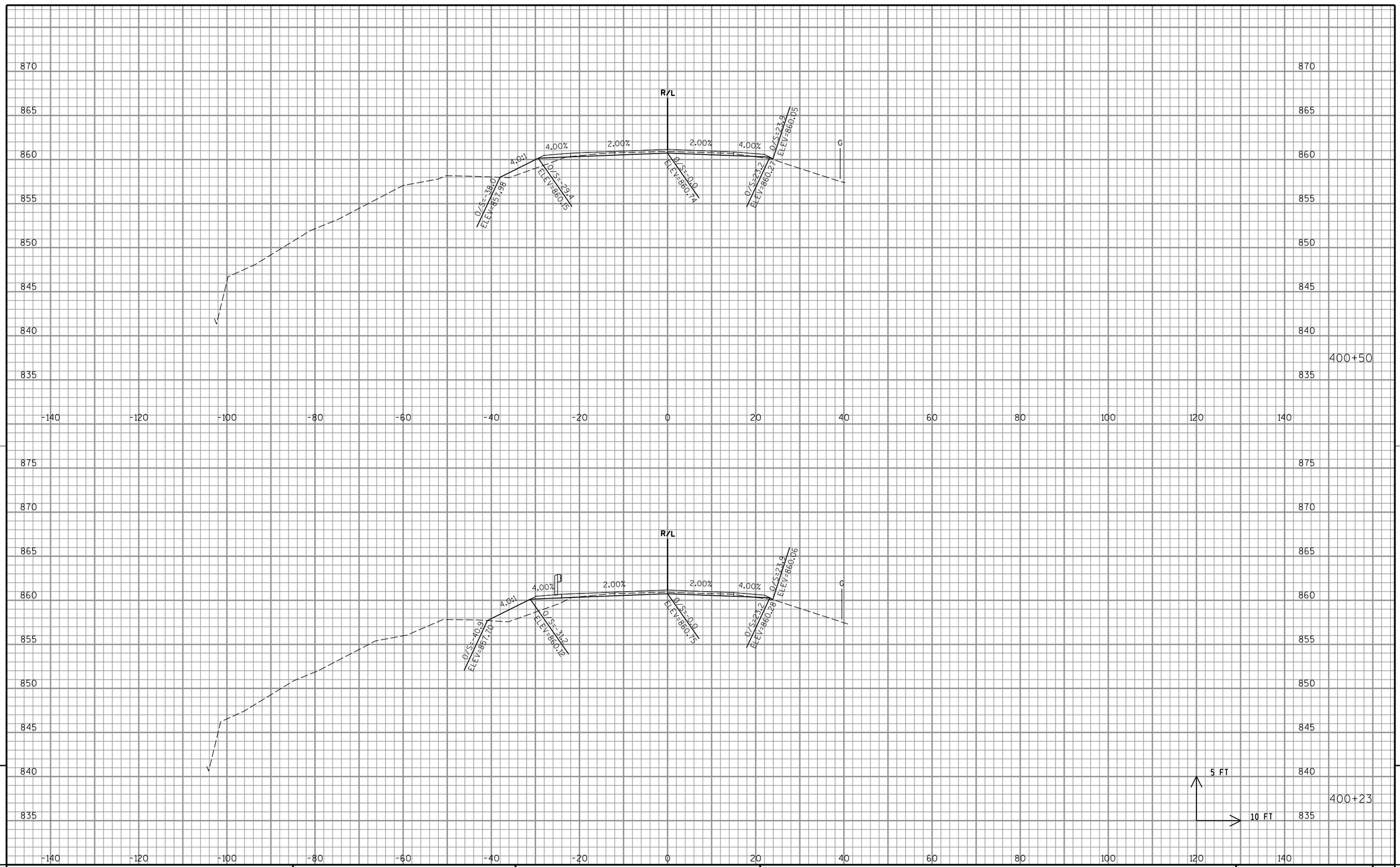
9

9

PROJECT NO: 1500-66-71	HWY: USH 10	COUNTY: MANITOWOC	CROSS SECTIONS: USH 10 - GUARDRAIL	SHEET 208	E

FILE NAME : P:\48xx\4816.DP.13.USH 10.MAN\CADDS\Plan\66 resurfacing\090201_xs.dgn PLOT DATE : 6/20/2017 PLOT BY : sgc PLOT NAME : PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21



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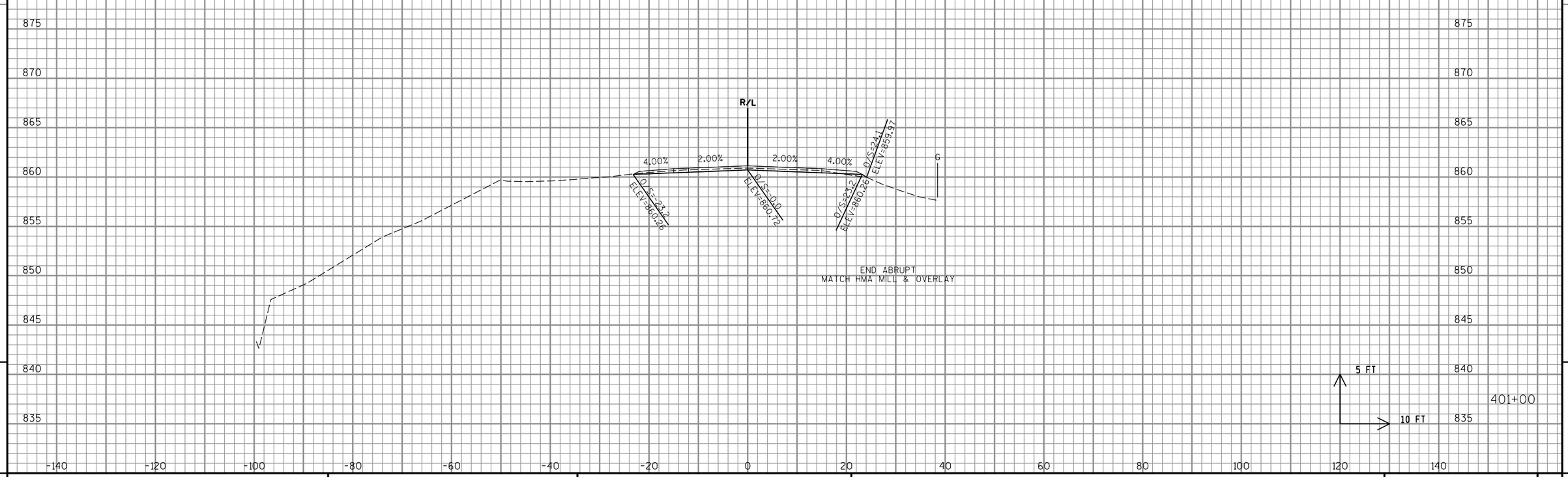
PROJECT NO: 1500-66-71	HWY: USH 10	COUNTY: MANITOWOC	CROSS SECTIONS: USH 10 - GUARDRAIL	SHEET 209	E

FILE NAME : P:\48xx\4816.DP.13.USH 10.MAN\CADDS\Plan\66 resurfacing\090201_xs.dgn PLOT DATE : 6/20/2017 PLOT BY : sgc PLOT NAME : PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21

9



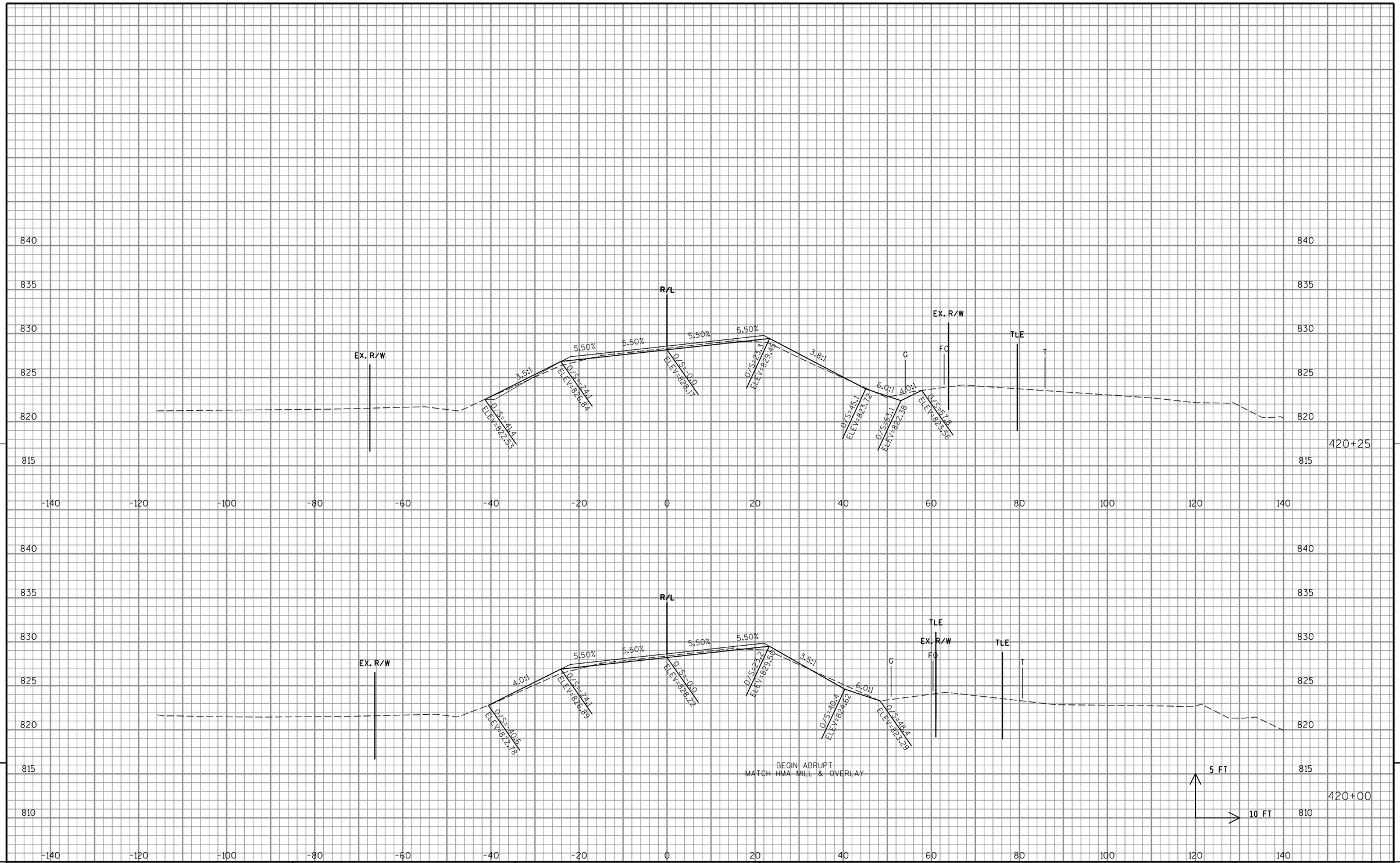
9

9

PROJECT NO: 1500-66-71	HWY: USH 10	COUNTY: MANITOWOC	CROSS SECTIONS: USH 10 - GUARDRAIL	SHEET 210	E

FILE NAME : P:\48xx\4816.DP.13.USH 10.MAN\CADDS\Plan\66 resurfacing\090201_xs.dgn PLOT DATE : 6/20/2017 PLOT BY : sgc PLOT NAME : PLOT SCALE : 1:20

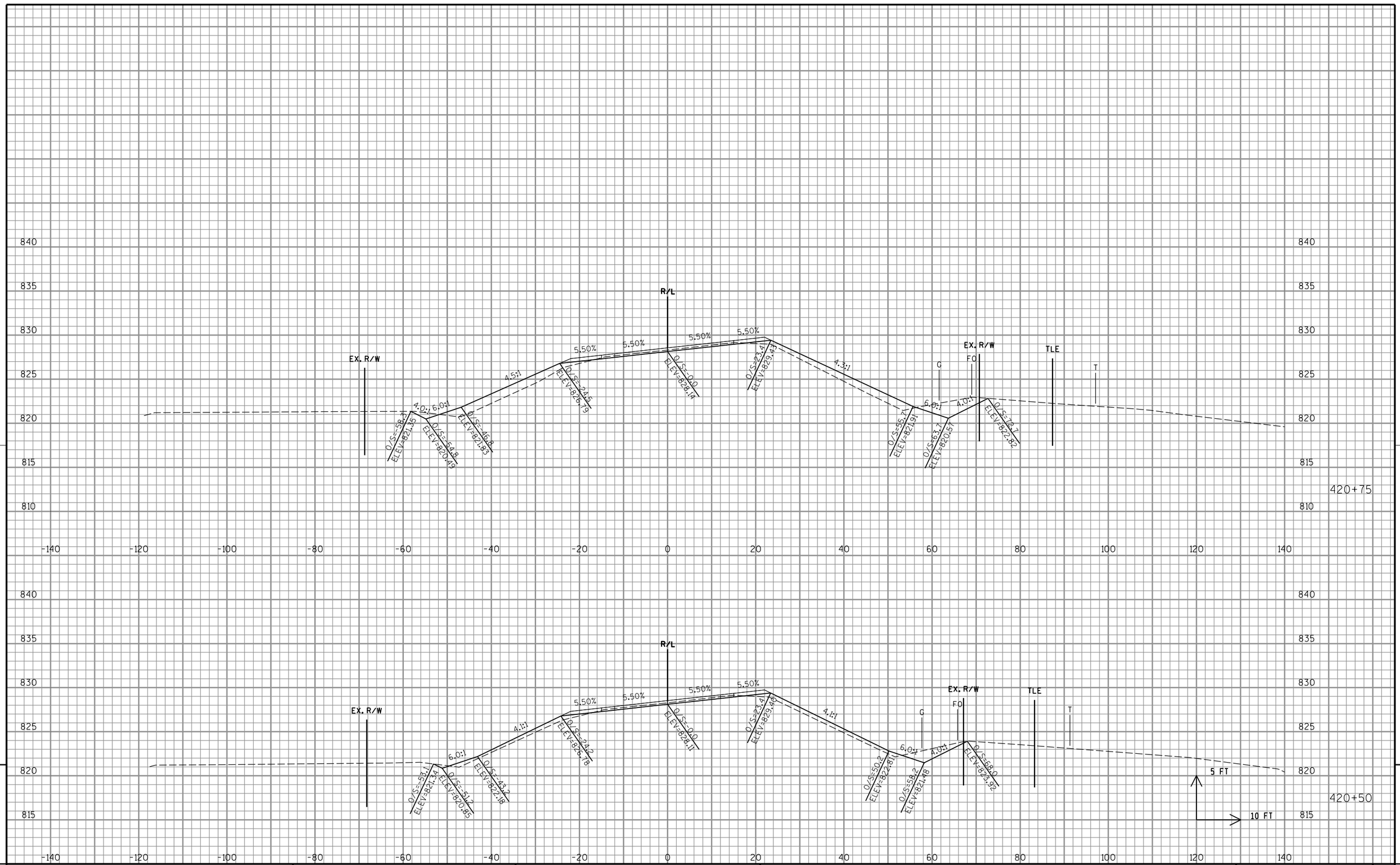
WISDOT/CADDS SHEET 21



PROJECT NO: 1500-66-71	HWY: USH 10	COUNTY: MANITOWOC	CROSS SECTIONS: USH 10 - CULVERT (STA 421+09)	SHEET 211	E

FILE NAME : P:\48xx\4816.DP.13.USH 10.MAN\CADDS\Plan\66 resurfacing\090201_xs.dgn PLOT DATE : 6/20/2017 PLOT BY : sgc PLOT NAME : PLOT SCALE : 1:20

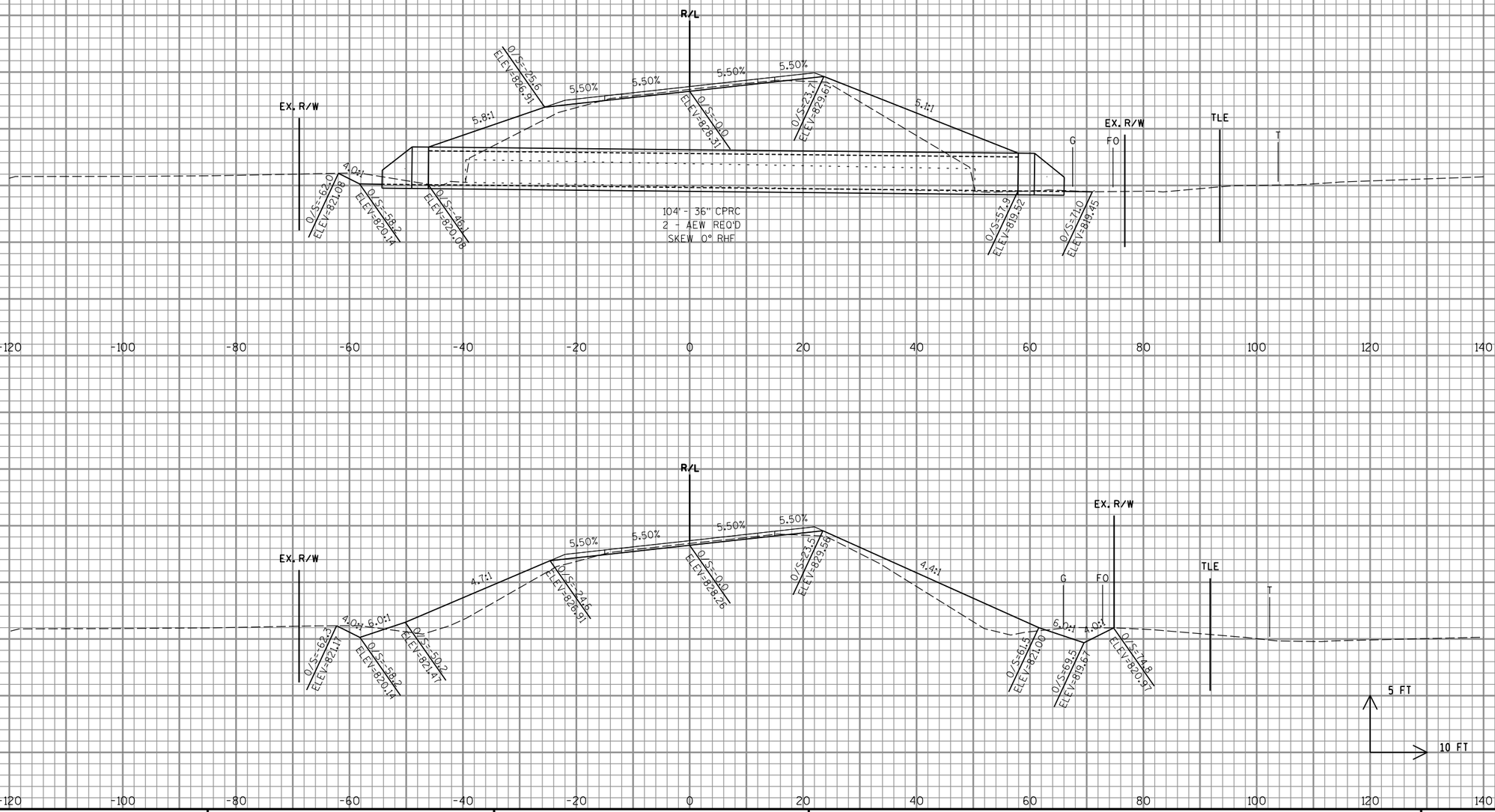
WISDOT/CADDS SHEET 21



PROJECT NO: 1500-66-71	HWY: USH 10	COUNTY: MANITOWOC	CROSS SECTIONS: USH 10 - CULVERT (STA 421+09)	SHEET 212	E

FILE NAME : P:\48xx\4816.DP.13.USH 10.MAN\CADDS\Plan\66 resurfacing\090201_xs.dgn PLOT DATE : 6/20/2017 PLOT BY : sgc PLOT NAME : PLOT SCALE : 1:20

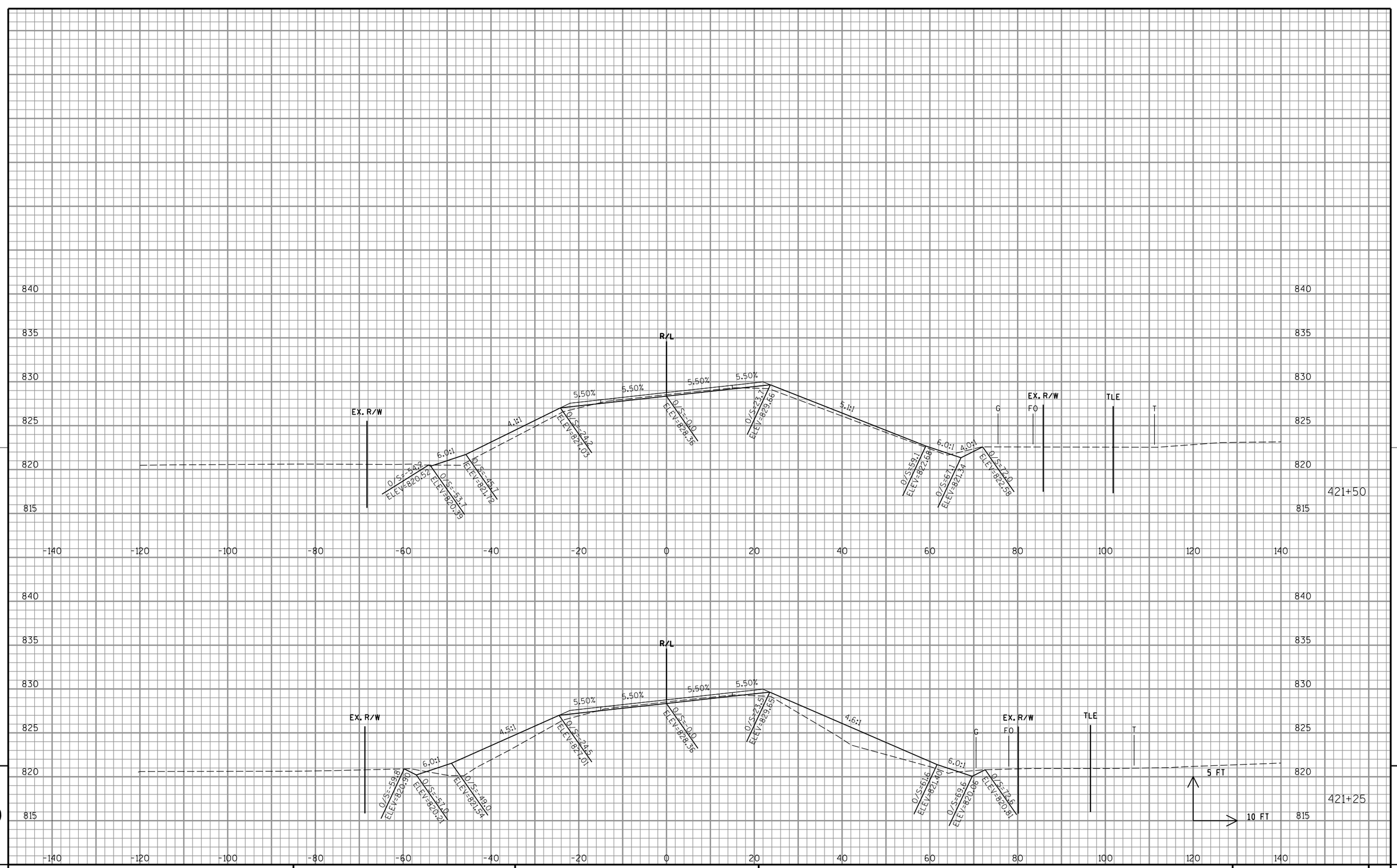
WISDOT/CADDS SHEET 21



PROJECT NO: 1500-66-71	HWY: USH 10	COUNTY: MANITOWOC	CROSS SECTIONS: USH 10 - CULVERT (STA 421+09)	SHEET 213	E

FILE NAME : P:\48xx\4816.DP.13.USH 10.MAN\CADDS\Plan\66 resurfacing\090201_xs.dgn PLOT DATE : 6/20/2017 PLOT BY : sgc PLOT NAME : PLOT SCALE : 1:20

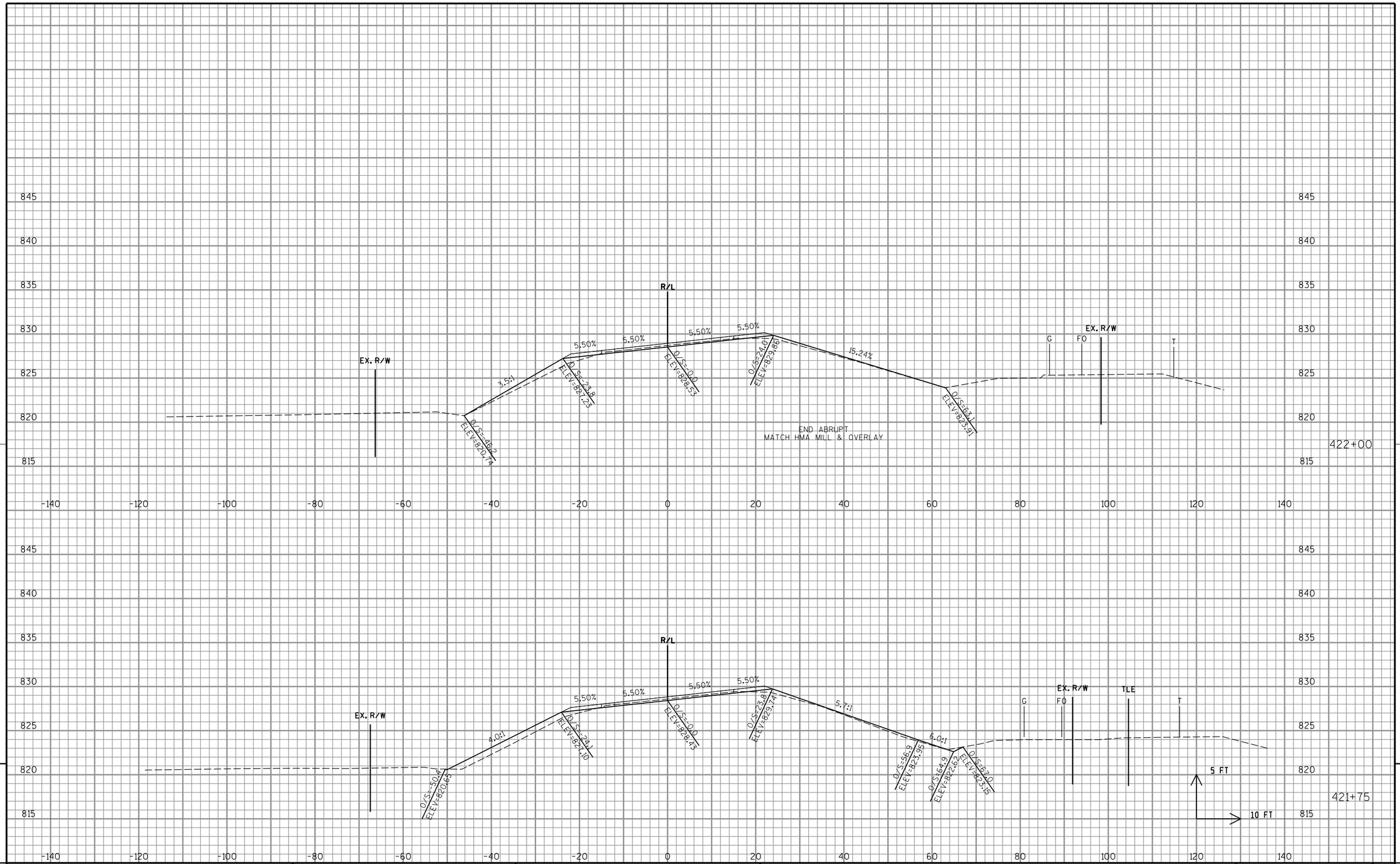
WISDOT/CADDS SHEET 21



PROJECT NO: 1500-66-71	HWY: USH 10	COUNTY: MANITOWOC	CROSS SECTIONS: USH 10 - CULVERT (STA 421+09)	SHEET 214	E

FILE NAME : P:\48xx\4816.DP.13.USH 10.MAN\CADDS\Plan\66 resurfacing\090201_xs.dgn PLOT DATE : 6/20/2017 PLOT BY : sgc PLOT NAME : PLOT SCALE : 1:20

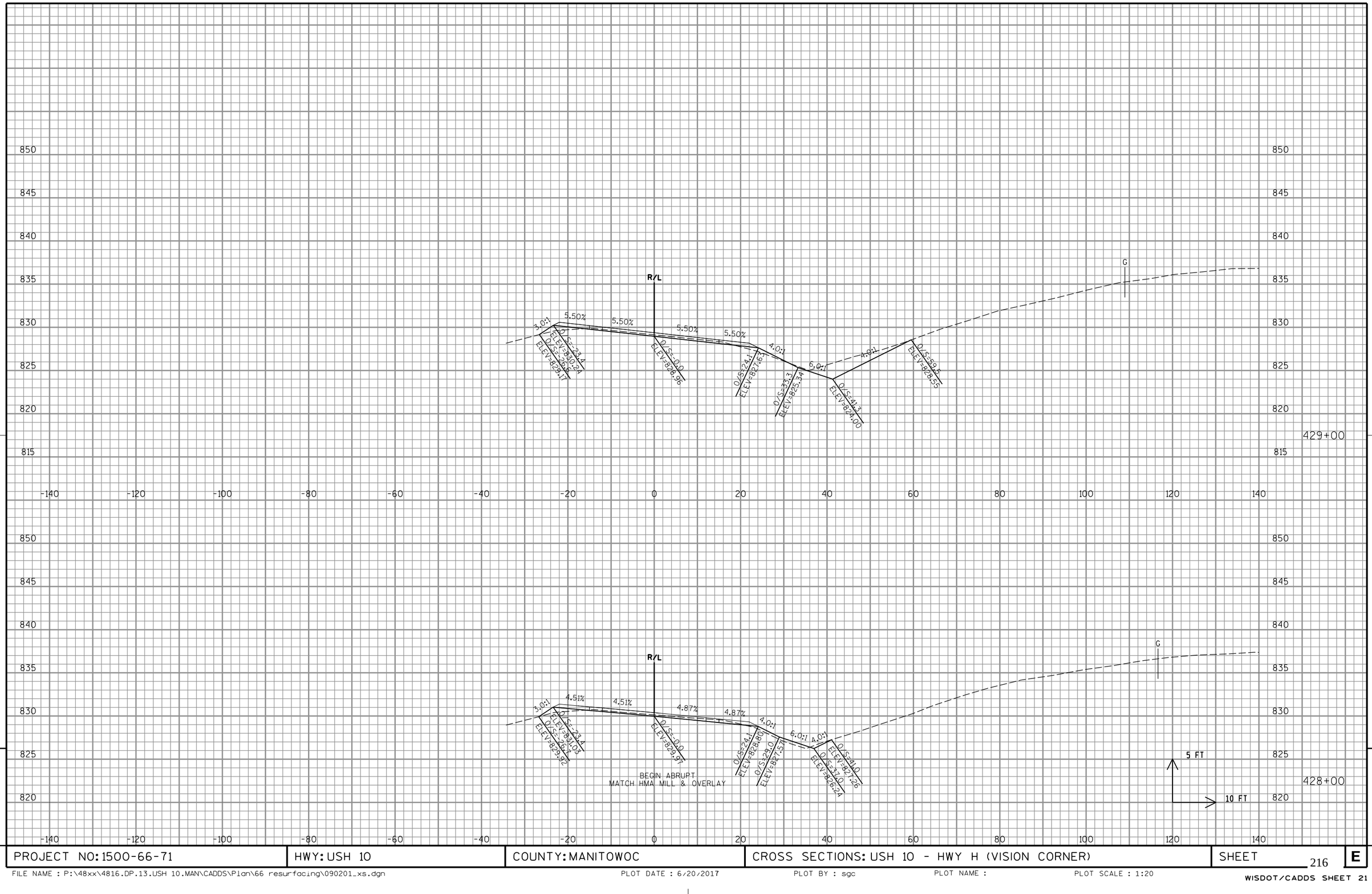
WISDOT/CADDS SHEET 21



PROJECT NO: 1500-66-71	HWY: USH 10	COUNTY: MANITOWOC	CROSS SECTIONS: USH 10 - CULVERT (STA 421+09)	SHEET 215	E

FILE NAME : P:\48xx\4816.DP.13.USH 10.MAN\CADDS\Plan\66 resurfacing\090201_xs.dgn PLOT DATE : 6/20/2017 PLOT BY : sgc PLOT NAME : PLOT SCALE : 1:20

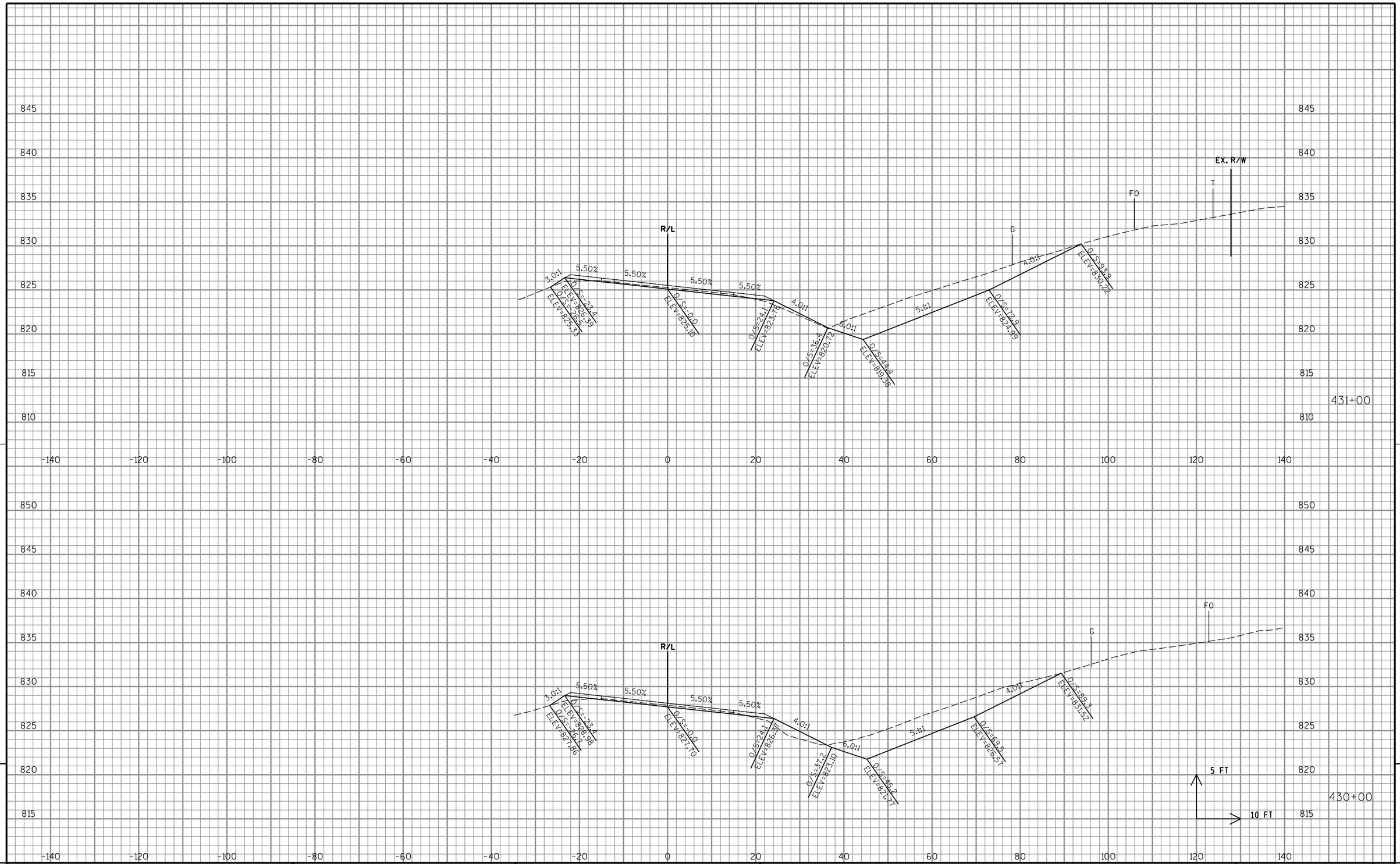
WISDOT/CADDS SHEET 21



PROJECT NO: 1500-66-71	HWY: USH 10	COUNTY: MANITOWOC	CROSS SECTIONS: USH 10 - HWY H (VISION CORNER)	SHEET 216	E

FILE NAME : P:\48xx\4816.DP.13.USH 10.MAN\CADDS\Plan\66 resurfacing\090201_xs.dgn | PLOT DATE : 6/20/2017 | PLOT BY : sgc | PLOT NAME : | PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21



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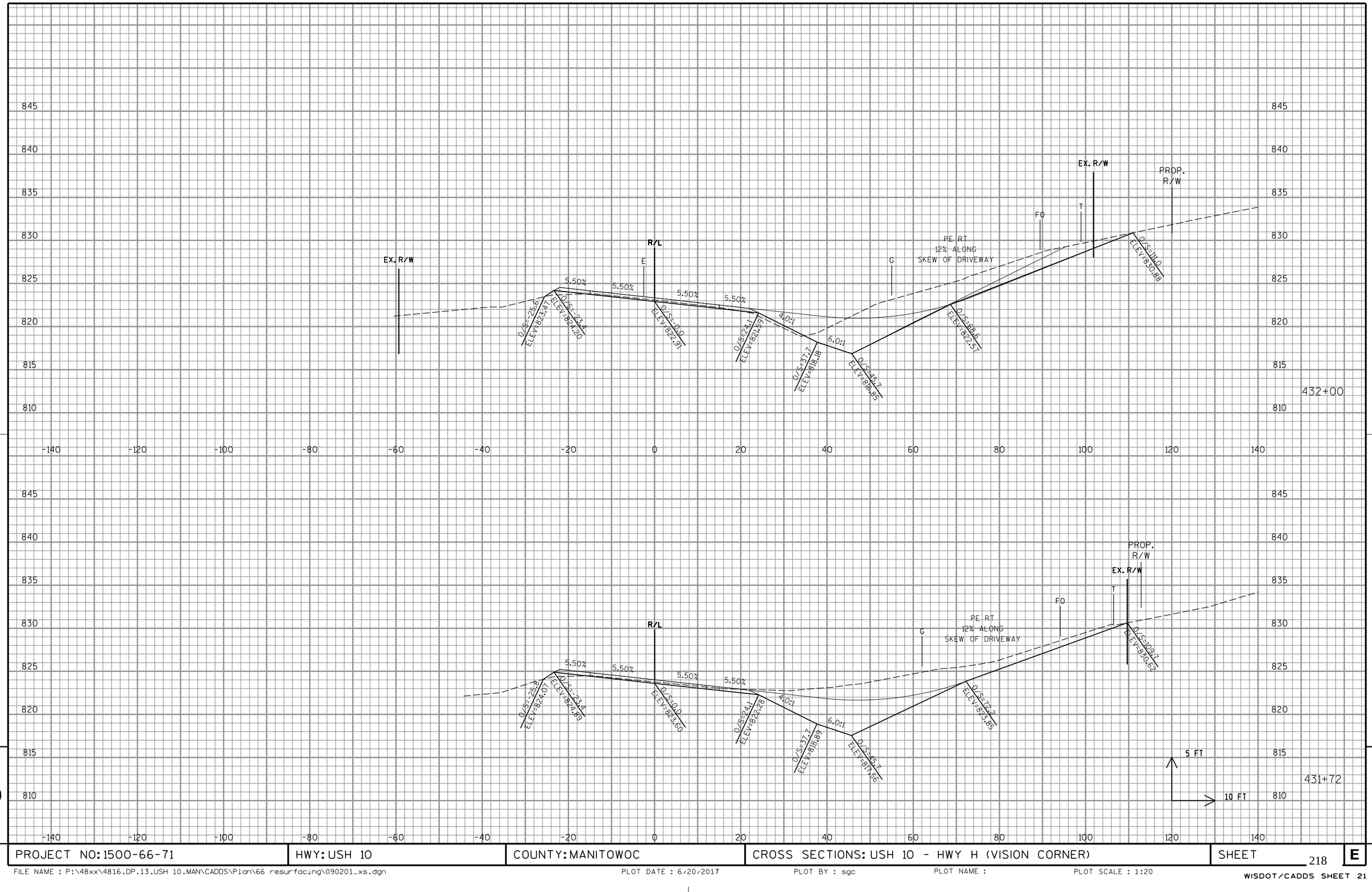
PROJECT NO: 1500-66-71	HWY: USH 10	COUNTY: MANITOWOC	CROSS SECTIONS: USH 10 - HWY H (VISION CORNER)	SHEET 217	E

9



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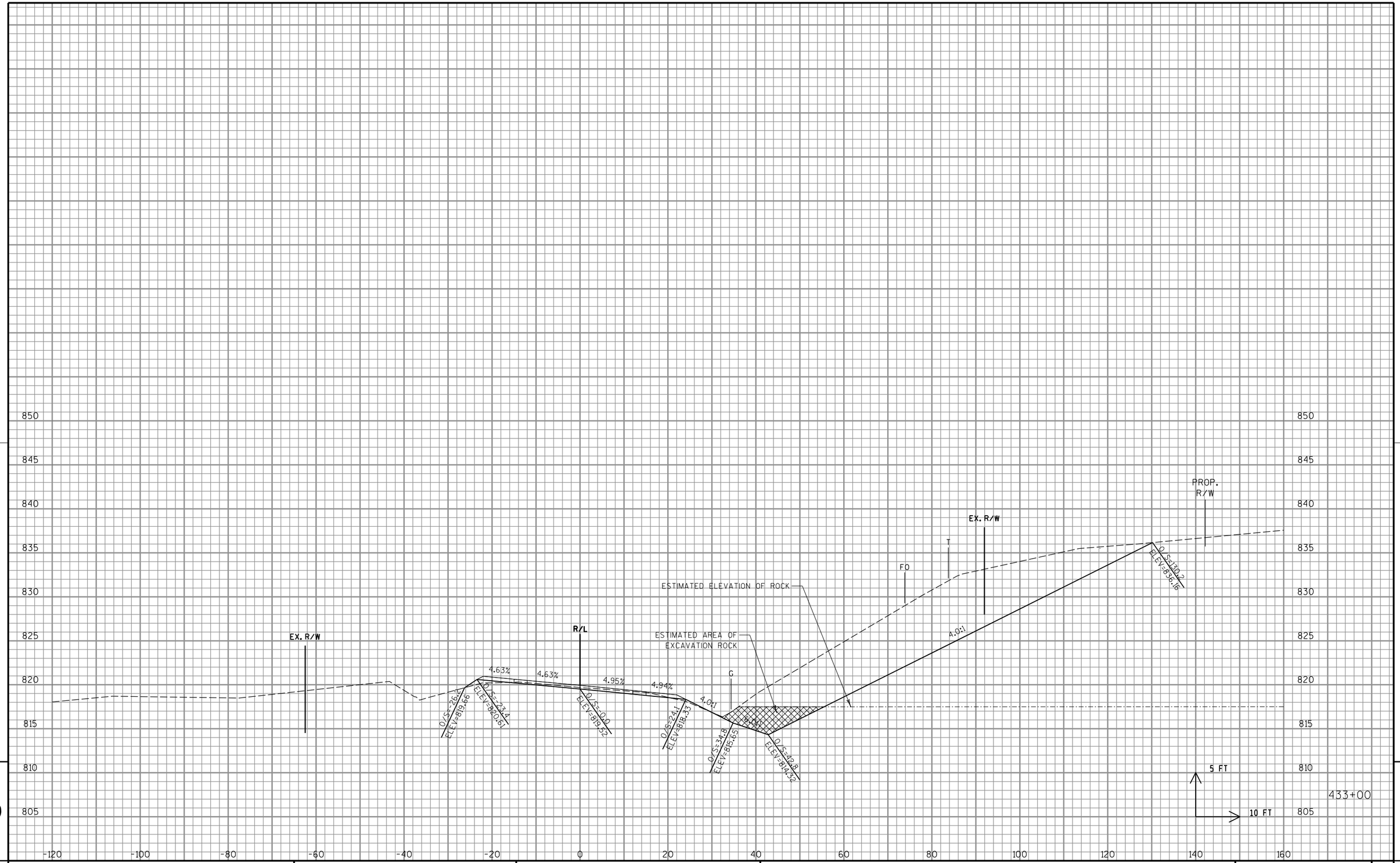
PROJECT NO: 1500-66-71	HWY: USH 10	COUNTY: MANITOWOC	CROSS SECTIONS: USH 10 - HWY H (VISION CORNER)	SHEET 218	E

9

FILE NAME : P:\48xx\4816.DP.13.USH 10.MAN\CADDS\Plan\66 resurfacing\090201_xs.dgn | PLOT DATE : 6/20/2017 | PLOT BY : sgc | PLOT NAME : | PLOT SCALE : 1:20

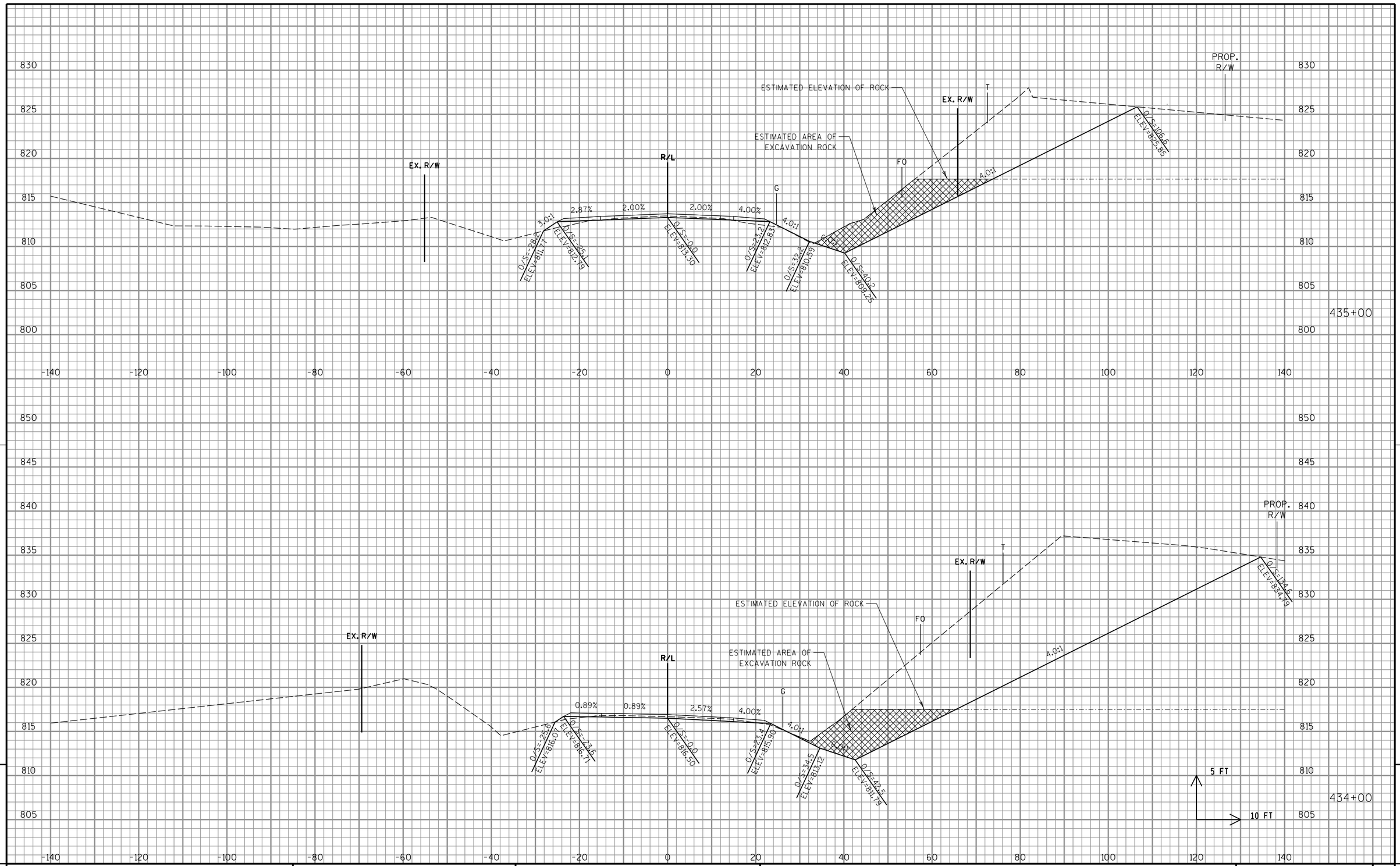
WISDOT/CADDS SHEET 21



PROJECT NO: 1500-66-71	HWY: USH 10	COUNTY: MANITOWOC	CROSS SECTIONS: USH 10 - HWY H (VISION CORNER)	SHEET 219	E

FILE NAME : P:\48xx\4816.DP.13.USH 10.MAN\CADDS\Plan\66 resurfacing\090201_xs.dgn PLOT DATE : 6/20/2017 PLOT BY : sgc PLOT NAME : PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21



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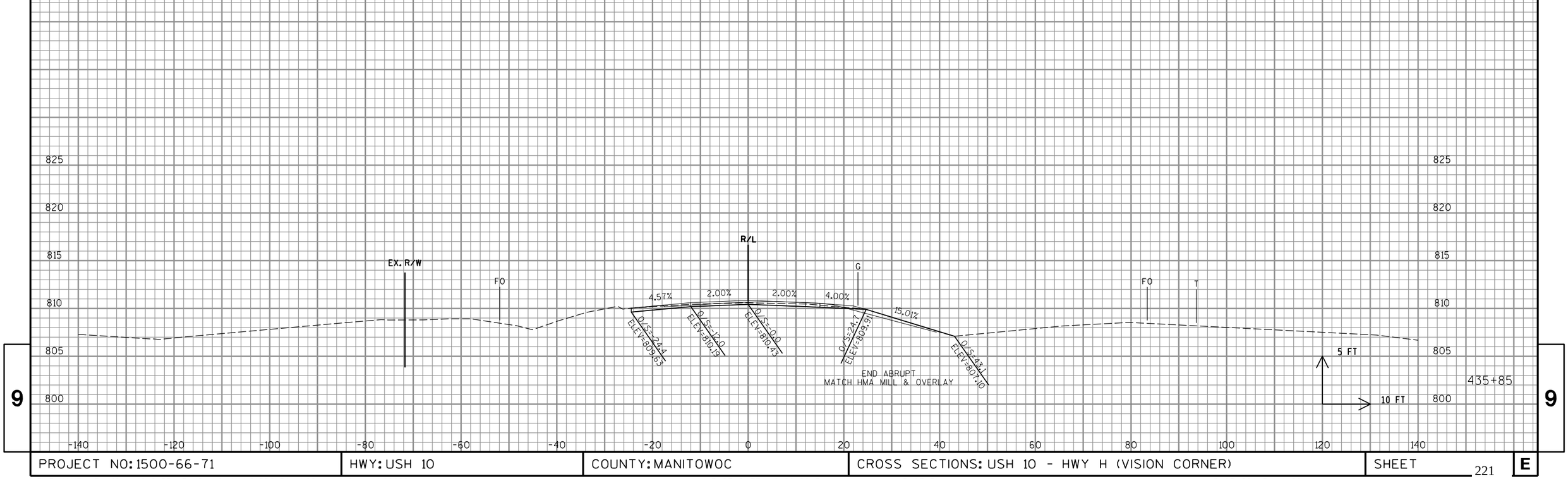
PROJECT NO: 1500-66-71	HWY: USH 10	COUNTY: MANITOWOC	CROSS SECTIONS: USH 10 - HWY H (VISION CORNER)	SHEET 220	E

FILE NAME : P:\48xx\4816.DP.13.USH 10.MAN\CADDS\Plan\66 resurfacing\090201_xs.dgn | PLOT DATE : 6/20/2017 | PLOT BY : sgc | PLOT NAME : | PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21



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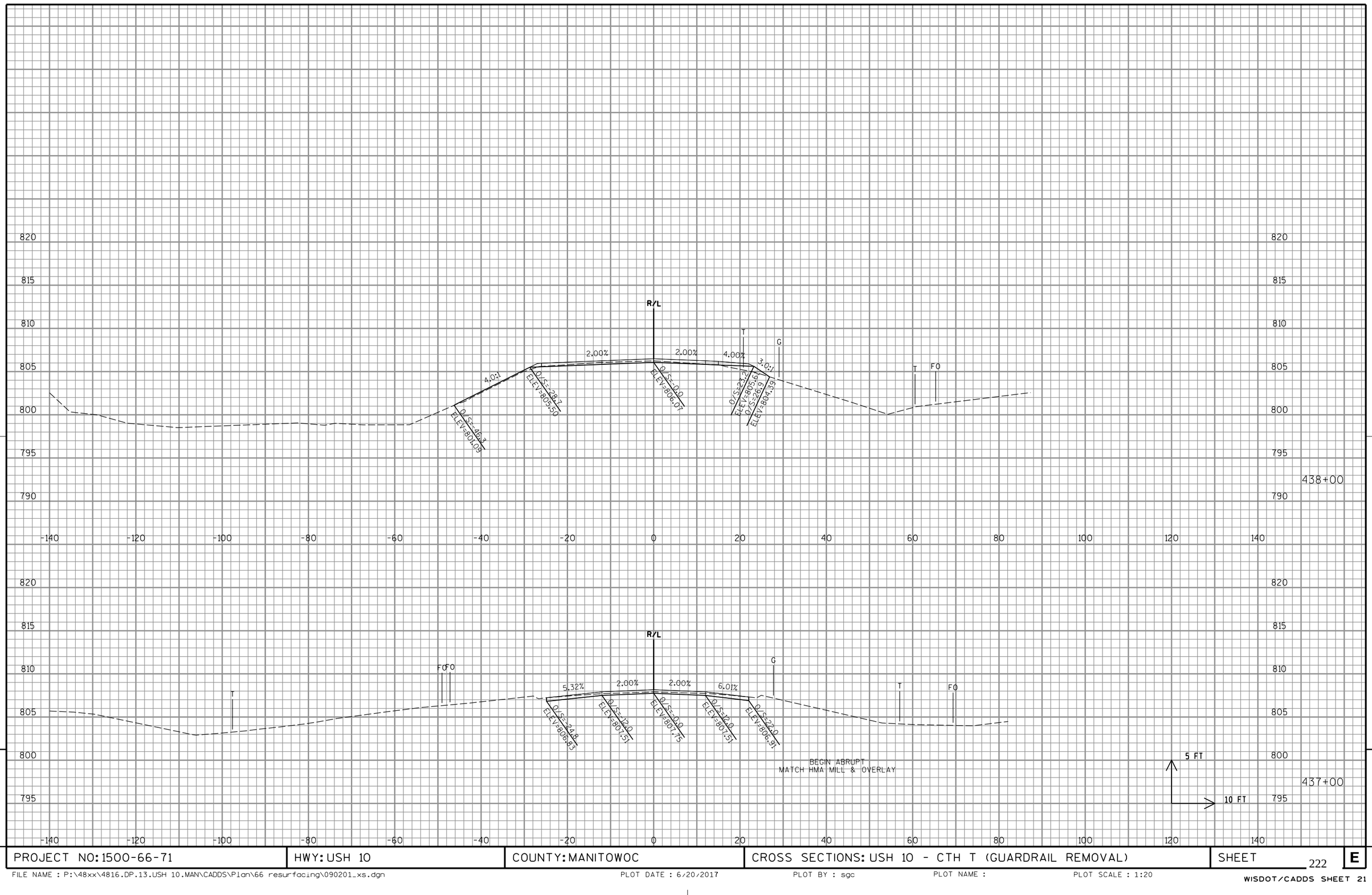
PROJECT NO: 1500-66-71	HWY: USH 10	COUNTY: MANITOWOC	CROSS SECTIONS: USH 10 - HWY H (VISION CORNER)	SHEET 221	E

FILE NAME : P:\48xx\4816.DP.13.USH 10.MAN\CADDS\Plan\66 resurfacing\090201_xs.dgn PLOT DATE : 6/20/2017 PLOT BY : sgc PLOT NAME : PLOT SCALE : 1:20

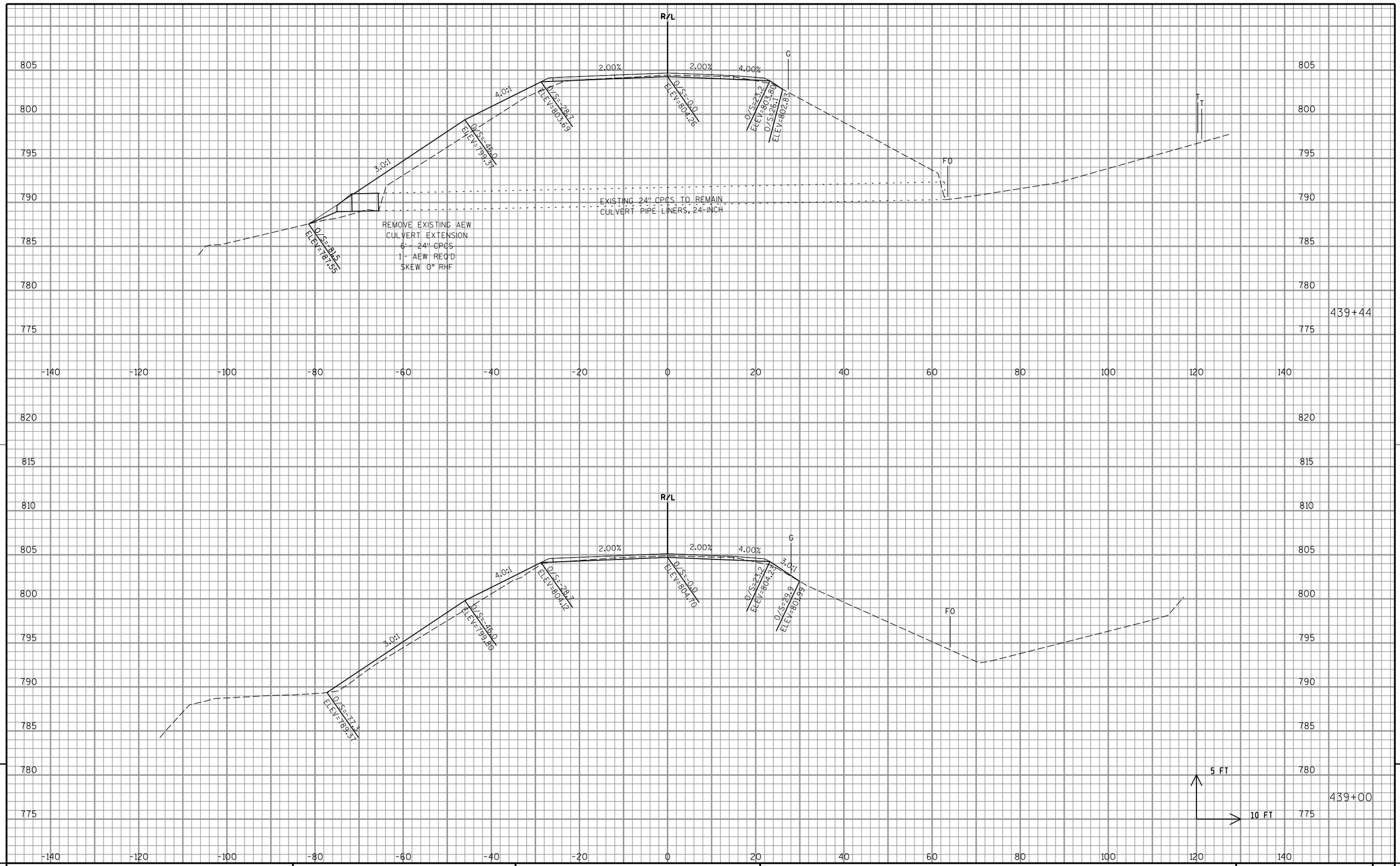
WISDOT/CADDS SHEET 21



PROJECT NO: 1500-66-71	HWY: USH 10	COUNTY: MANITOWOC	CROSS SECTIONS: USH 10 - CTH T (GUARDRAIL REMOVAL)	SHEET 222	E

FILE NAME : P:\48xx\4816.DP.13.USH 10.MAN\CADDS\Plan\66 resurfacing\090201_xs.dgn | PLOT DATE : 6/20/2017 | PLOT BY : sgc | PLOT NAME : | PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21



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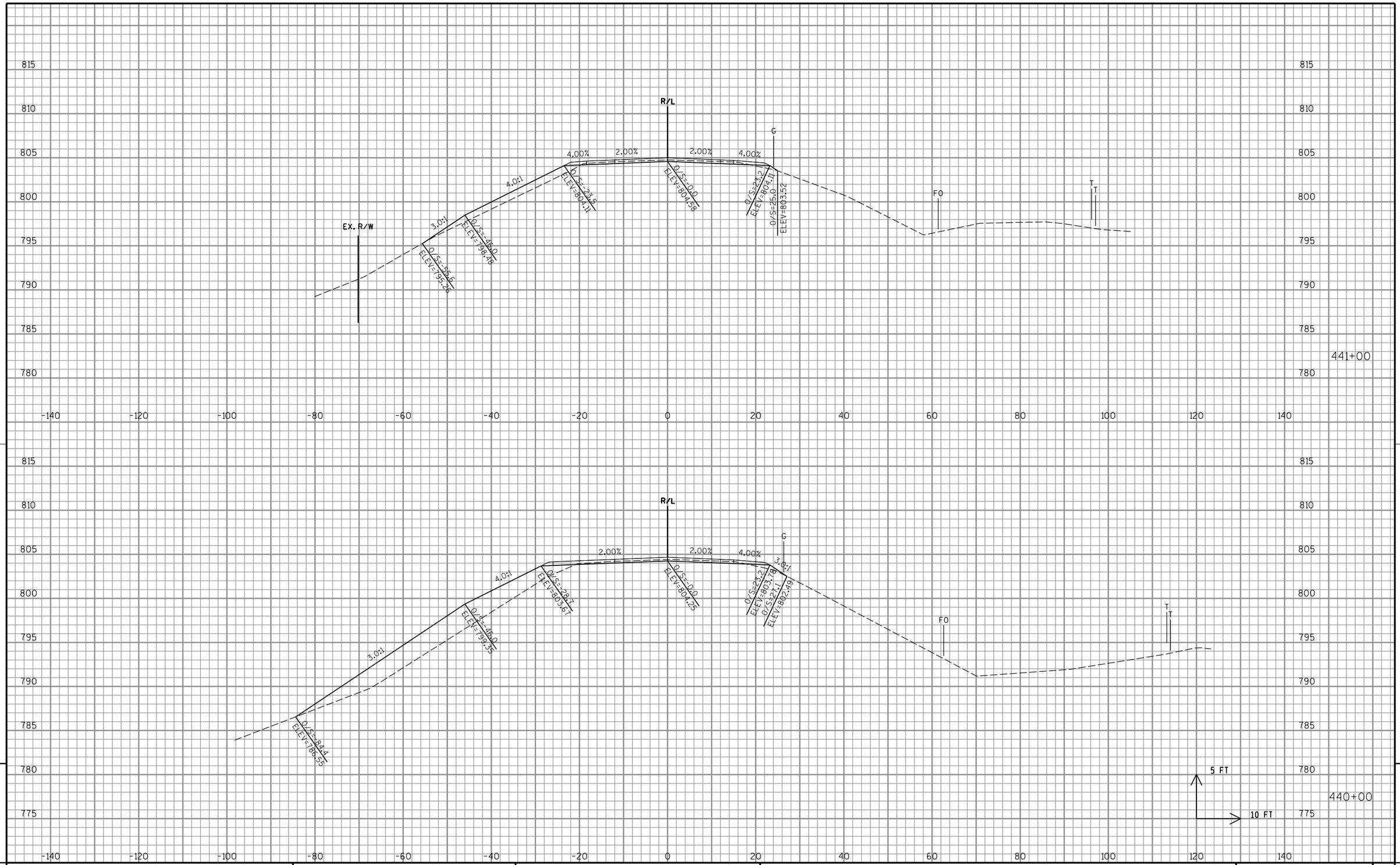
PROJECT NO: 1500-66-71	HWY: USH 10	COUNTY: MANITOWOC	CROSS SECTIONS: USH 10 - CTH T (GUARDRAIL REMOVAL)	SHEET 223	E

FILE NAME : P:\48xx\4816.DP.13.USH 10.MAN\CADDS\Plan\66 resurfacing\090201_xs.dgn PLOT DATE : 6/20/2017 PLOT BY : sgc PLOT NAME : PLOT SCALE : 1:20

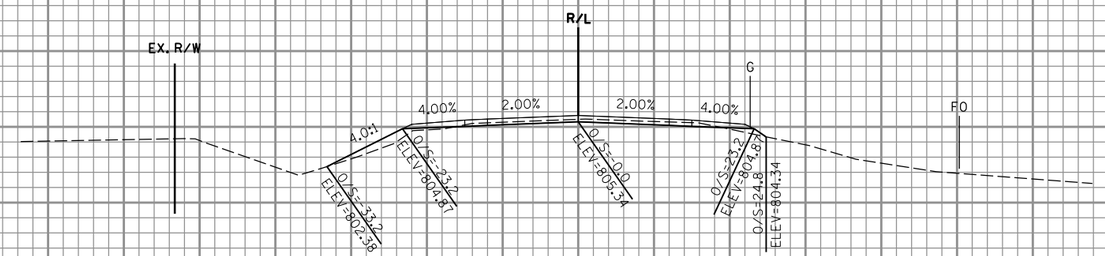
WISDOT/CADDS SHEET 21



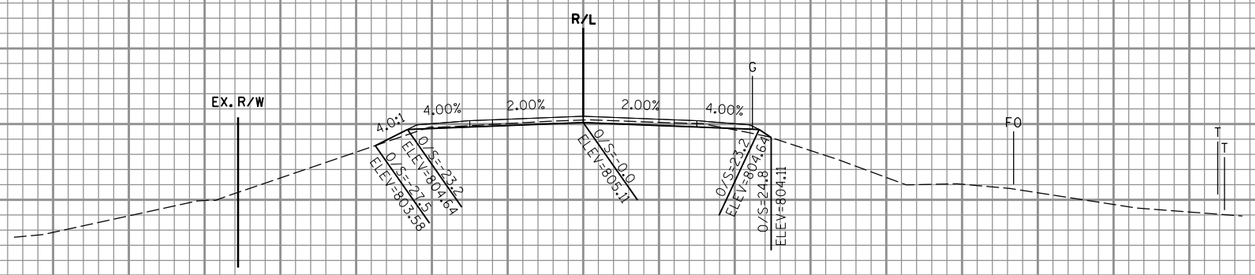
9	PROJECT NO: 1500-66-71	HWY: USH 10	COUNTY: MANITOWOC	CROSS SECTIONS: USH 10 - CTH T (GUARDRAIL REMOVAL)	SHEET 224 E

FILE NAME : P:\48xx\4816.DP.13.USH 10.MAN\CADDS\Plan\66 resurfacing\090201_xs.dgn PLOT DATE : 6/20/2017 PLOT BY : sgc PLOT NAME : PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21



443+00



442+00

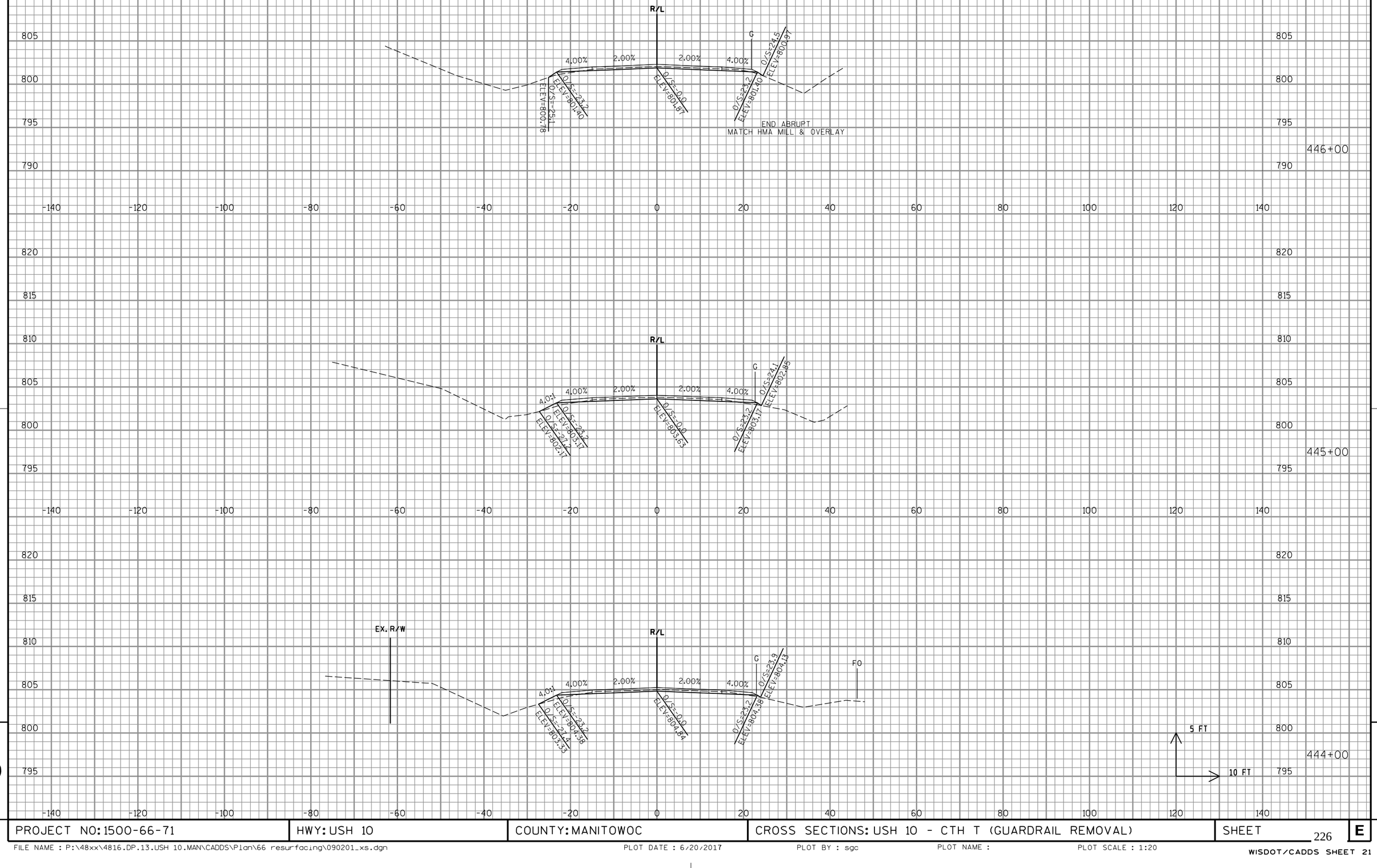
5 FT

10 FT

PROJECT NO: 1500-66-71	HWY: USH 10	COUNTY: MANITOWOC	CROSS SECTIONS: USH 10 - CTH T (GUARDRAIL REMOVAL)	SHEET 225	E

FILE NAME : P:\48xx\4816.DP.13.USH 10.MAN\CADDS\Plan\66 resurfacing\090201_xs.dgn PLOT DATE : 6/20/2017 PLOT BY : sgc PLOT NAME : PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21



PROJECT NO: 1500-66-71	HWY: USH 10	COUNTY: MANITOWOC	CROSS SECTIONS: USH 10 - CTH T (GUARDRAIL REMOVAL)	SHEET 226	E

FILE NAME : P:\48xx\4816.DP.13.USH 10.MAN\CADDS\Plan\66 resurfacing\090201_xs.dgn | PLOT DATE : 6/20/2017 | PLOT BY : sgc | PLOT NAME : | PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21

Notes

Wisconsin Department of Transportation

Dedicated people creating transportation solutions
through innovation and exceptional service.

http://www.dot.wisconsin.gov

GRE

NOVEMBER 2017

PROJECT ID: **1500-67-60**

WITH: 1500-27-71, 1500-66-71

COUNTY: **MANITOWOC**

ORDER OF SHEETS

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

TOTAL SHEETS = 96

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

REEDSVILLE - MANITOWOC

CTH P - CTH R

USH 10

MANITOWOC

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
1500-67-60	WISC 2017536	1

STATE PROJECT NUMBER

1500-67-60

BEGIN PROJECT 1500-67-60

STA. 168+72.00

Y = 320158.083

X = 207489.019

END PROJECT 1500-67-60

STA. 181'A'+90.00

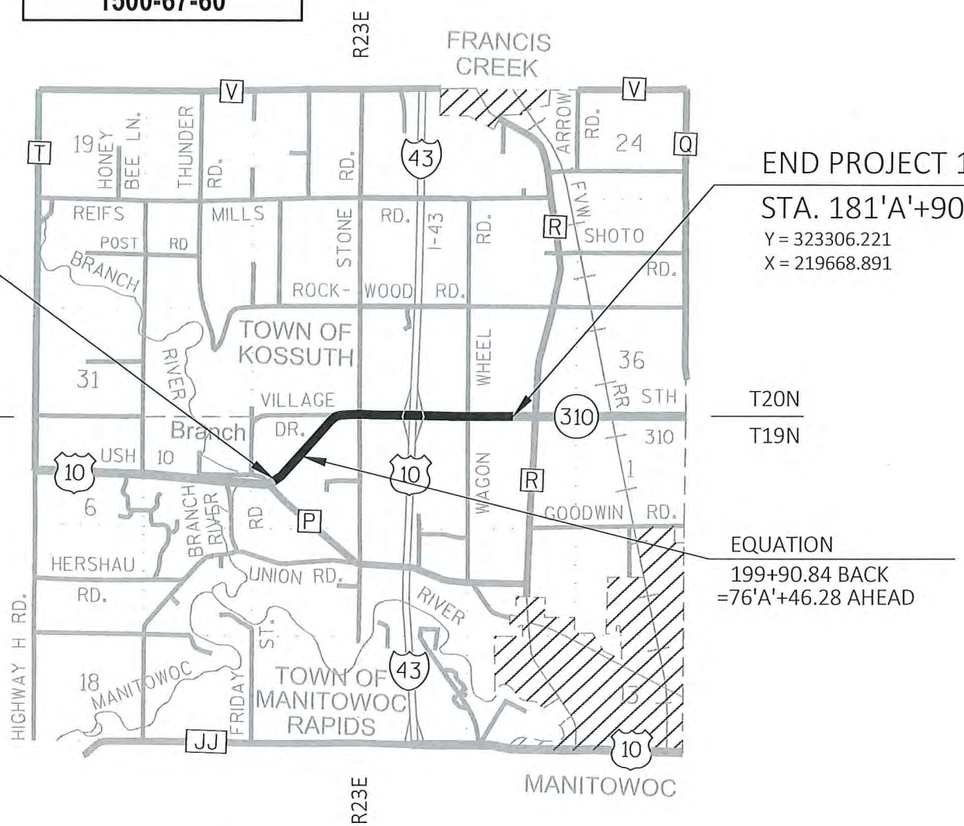
Y = 323306.221

X = 219668.891

EQUATION

199+90.84 BACK

=76'A'+46.28 AHEAD



LAYOUT

SCALE 0 — 2 MI

TOTAL NET LENGTH OF CENTERLINE = 2.588 MI.

HORIZONTAL POSITIONS SHOWN ON THIS PLAN ARE WISCONSIN COUNTY COORDINATES, MANITOWOCCOUNTY, NAD83 (1991), IN U.S. SURVEY FEET. VALUES ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

DESIGN DESIGNATION

			USH 10	USH 10 / STH 310
A.A.D.T.	2018	=	3800	5900
A.A.D.T.	2038	=	4990	7880
D.H.V.		=	8.5%	5.0%
D.D.		=	53/47	60/40
T.		=	28.2%	6.0%
DESIGN SPEED		=	60 MPH	60 MPH
ESALS		=	4,400,000	4,400,000

CONVENTIONAL SYMBOLS

PLAN		PROFILE	
CORPORATE LIMITS		GRADE LINE	
PROPERTY LINE		ORIGINAL GROUND	
LOT LINE		MARSH OR ROCK PROFILE (To be noted as such)	ROCK
LIMITED HIGHWAY EASEMENT		SPECIAL DITCH	LABEL
EXISTING RIGHT OF WAY		GRADE ELEVATION	95.36
PROPOSED OR NEW R/W LINE		CULVERT (Profile View)	
SLOPE INTERCEPT		UTILITIES	
REFERENCE LINE	300'ER'	ELECTRIC	E
EXISTING CULVERT		FIBER OPTIC	FO
PROPOSED CULVERT (Box or Pipe)		GAS	G
COMBUSTIBLE FLUIDS	CAUTION	SANITARY SEWER	SAN
MARSH AREA		STORM SEWER	SS
WOODED OR SHRUB AREA		TELEPHONE	T
		WATER	W
		UTILITY PEDESTAL	
		POWER POLE	
		TELEPHONE POLE	

ORIGINAL PLANS PREPARED BY

GREMMER & ASSOCIATES, INC.
CONSULTING ENGINEERS
Stevens Point • Fond du Lac
120 Wilshire Boulevard North • Stevens Point, WI 54481
(715) 341-4363 • fax (715) 341-1856

WISCONSIN
DAVID L. GLODOWSKI
E-31571
STEVENS POINT
WI
PROFESSIONAL ENGINEER

2/23/17 — DATE

DAVID L. GLODOWSKI, PE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PREPARED BY

Surveyor	GREMMER / WISDOT
Designer	GREMMER & ASSOCIATES, INC.
Project Manager	BRIAN HAEN, P.E.
Regional Examiner	REGIONAL EXAMINER
Regional Supervisor	CHARLES KAROW, P.E.

APPROVED FOR THE DEPARTMENT

DATE 6/22/17 — (Signature)

E

FILE NAME : P:\PROJECTS_CURRENT\MANITOWOC\WDOT_NER\USH 10 - 2016\ACAD\010101_TI.DWG

PLOT DATE : 3/3/2017 8:34 AM

PLOT BY : DEXTER KAETTERHENRY

PLOT NAME :

GENERAL NOTES

ALL DISTANCES AND STATIONING SHOWN ON THIS PLAN ARE GROUND VALUES.

THERE ARE UTILITY FACILITIES WITHIN THE PROJECT AREA THAT ARE NOT SHOWN ON THE PLANS. THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH A CALL TO DIGGERS HOTLINE AND/OR A DIRECT CALL TO THE UTILITIES THAT HAVE FACILITIES IN THE AREA. NOT ALL UTILITIES ARE MEMBERS OF DIGGERS HOTLINE.

THE CONTRACTORS PAVING OPERATION SHALL BE CONSISTENT WITH THE PLAN TYPICAL SECTIONS AND CONSTRUCTED TO PREVENT HMA LONGITUDINAL JOINTS FROM BEING LOCATED WITHIN A DRIVE, TURNING, AND PASSING LANE.

CURVE DATA IS BASED ON ARC DEFINITION.

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

ORDER OF SECTION 2 SHEETS

GENERAL NOTES

PROJECT OVERVIEW

TYPICAL SECTIONS

CONSTRUCTION DETAILS

PERMANENT SIGNING (BY WISDOT)

PAVEMENT MARKING

TRAFFIC CONTROL

WDNR LIAISON

WISCONSIN DEPARTMENT OF NATURAL RESOURCES
2984 SHAWANO AVENUE
GREEN BAY, WI 54313
ATTN: MATT SCHAEVE
PHONE: 920.366.1544
EMAIL: matthew.schaeve@wisconsin.gov

DESIGN CONTACT

GREMMER & ASSOCIATES, INC.
120 WILSHIRE BOULEVARD NORTH
STEVENS POINT, WI 54481
ATTN: DAVID GLODOWSKI
PHONE: 715.341.4363
EMAIL: d.glodowski@gremmerassociates.com

REGIONAL SURVEY COORDINATOR

WISCONSIN DEPARTMENT OF TRANSPORTATION - NE REGION
944 VANDERPERREN WAY
GREEN BAY, WI 54304
ATTN: CORMAC MCINNIS, P.L.S.
PHONE: 920.492.5638

UTILITIES

AT&T WISCONSIN
221 WEST WASHINGTON STREET
APPLETON, WI 54911-4742
ATTN: JOSEPH KASSAB
PHONE: 920.735.32.06
EMAIL: jk572k@att.com

ATC MANAGEMENT INC.
801 O'KEEFE ROAD
P.O. BOX 6113
DE PERE, WI 54115-6113
ATTN: MIKE OLSEN
PHONE: 920.338.6582
MOBILE: 920.660.2390
EMAIL: molsen@atcllc.com

MCLEOD USA TELECOMMUNICATIONS
13935 BISHOPS DRIVE
BROOKFIELD, WI 53005
ATTN: AARON GRODI
PHONE: 608.819.5014
EMAIL: aaron.grodi@windstream.com

NSIGHT TELSERVICES
7520 ENGLISH LAKE ROAD
MANITOWOC, WI 54220
ATTN: DOUG STAHL
PHONE: 920.758.3603
EMAIL: doug.stahl@nsight.com

WISCONSIN PUBLIC SERVICE
700 NORTH ADAMS STREET
P.O. BOX 19001
GREEN BAY, WI 54307-9001
ATTN: LORI BUTRY
PHONE: 920.433.1703
EMAIL: LAButry@integrysgroup.com

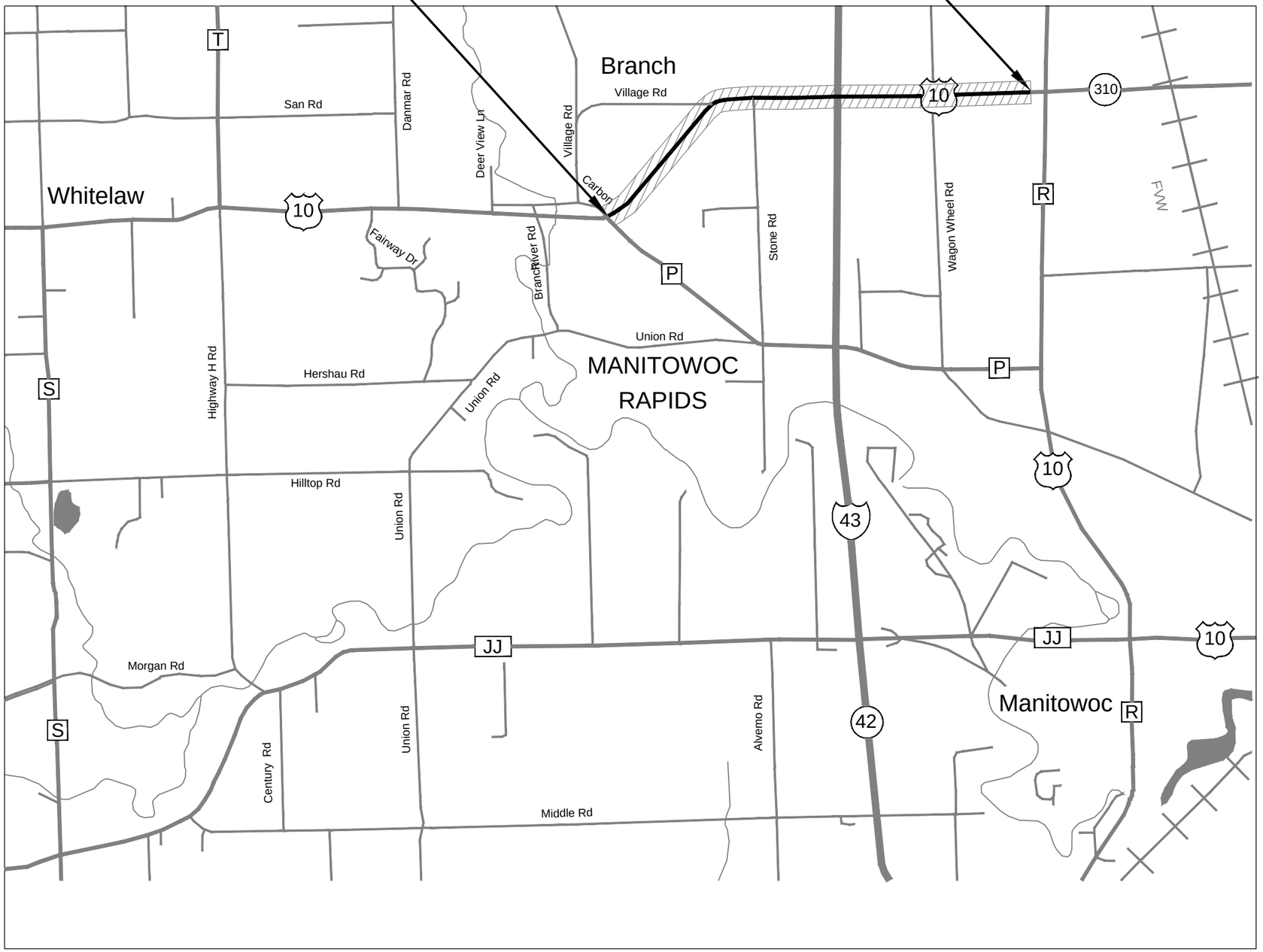
DIGGERS HOTLINE
Dial 811 or (800)242-8511
www.DiggersHotline.com

2

BEGIN PROJECT
STA. 168+72.00

END PROJECT
STA. 181'A'+90.00

MANITOWOC
COUNTY



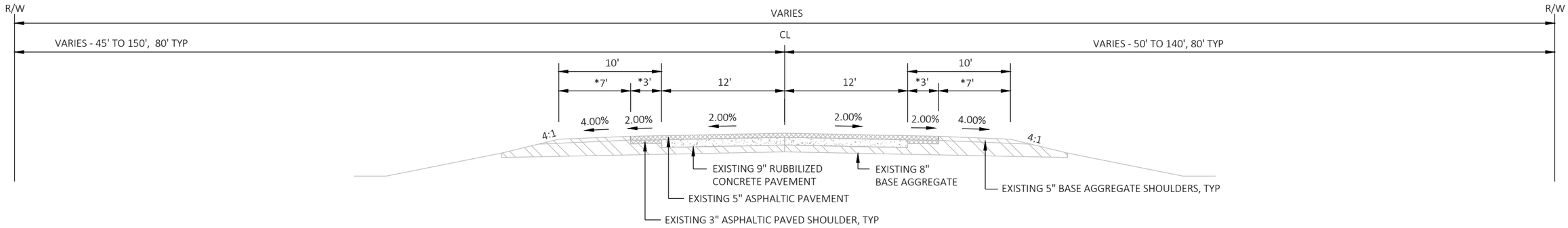
N

PROJECT NO: 1500-67-60	HWY: USH 10	COUNTY: MANITOWOC	PLAN: PROJECT OVERVIEW	SHEET 3	E

FILE NAME : S:\PROJECTS_CURRENT\MANITOWOC\WDOT_NER\USH 10 - 2016\ACAD\020301_TS.DWG
LAYOUT NAME - 05

PLOT DATE : 11/1/2016 2:39 PM PLOT BY : DEXTER KAETTERHENRY PLOT NAME : PLOT SCALE : 1 IN:10 FT

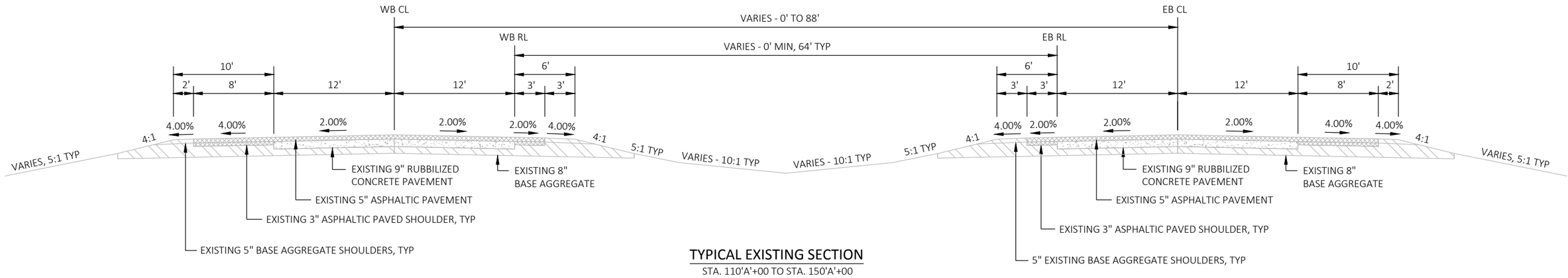
2



*5' PAVED & 5' GRAVEL SHOULDER FROM STA. 156'A'+19 TO STA. 184'A'+00

TYPICAL EXISTING SECTION

STA. 168+72 TO STA. 103'A'+13 (STONE ROAD)
STA. 103'A'+13 (STONE ROAD) TO STA. 110'A'+00
STA. 150'A'+00 TO STA. 156'A'+19 (WAGON WHEEL ROAD)
STA. 156'A'+19 (WAGON WHEEL ROAD) TO STA. 181'A'+90

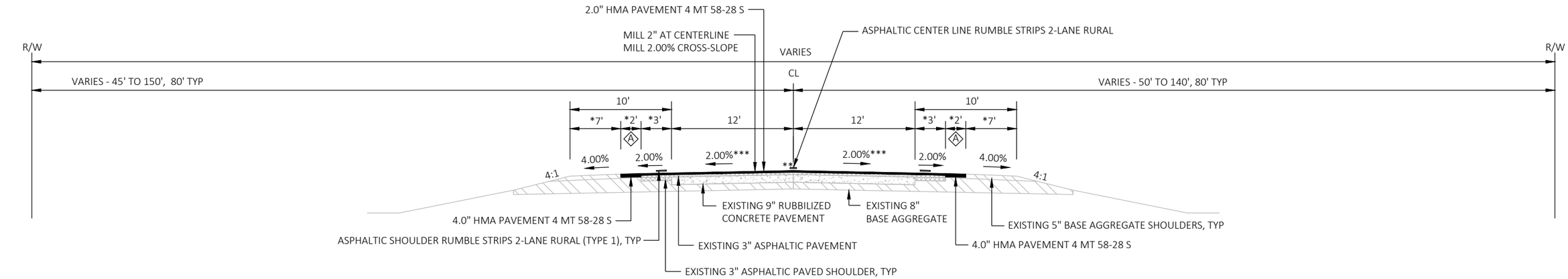


TYPICAL EXISTING SECTION

STA. 110'A'+00 TO STA. 150'A'+00

PROJECT NO: 1500-67-60	HWY: USH 10	COUNTY: MANITOWOC	TYPICAL SECTIONS - EXISTING	SHEET 4	E

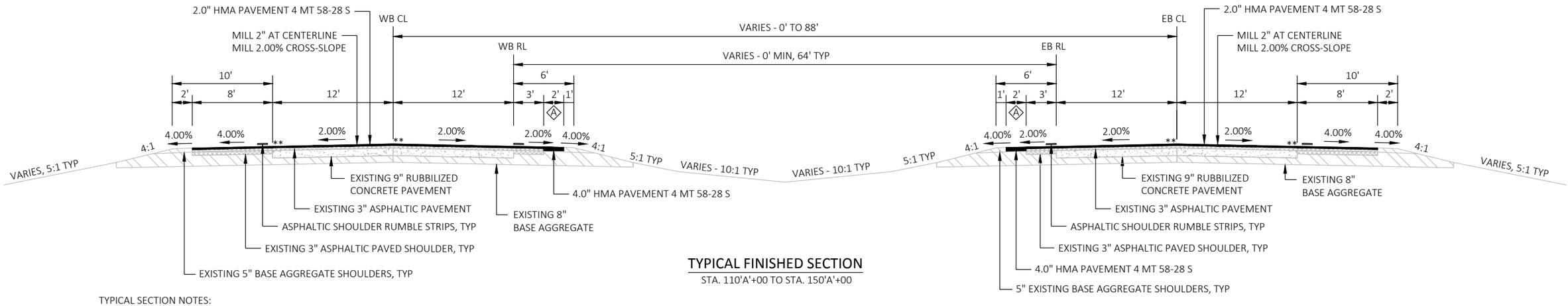
2



TYPICAL FINISHED SECTION

STA. 168+72 TO STA. 103'A'+13 (STONE ROAD)
STA. 103'A'+13 (STONE ROAD) TO STA. 110'A'+00
STA. 150'A'+00 TO STA. 156'A'+19 (WAGON WHEEL ROAD)
STA. 156'A'+19 (WAGON WHEEL ROAD) TO STA. 181'A'+90

*EXISTING 5' PAVED & 5' GRAVEL SHOULDER FROM STA. 156'A'+19 TO STA. 181'A'+90.
NO PREPARE FOUNDATION FOR ASPHALTIC SHOULDERS REQUIRED FOR THIS SEGMENT.



TYPICAL FINISHED SECTION

STA. 110'A'+00 TO STA. 150'A'+00

TYPICAL SECTION NOTES:
** REHEATING HMA PAVEMENT LONGITUDINAL JOINTS
*** CROSS-SLOPE IS SUPERELEVATED FROM STATION RANGES BELOW:
STA. 159+20.39 TO STA. 181+63.61
STA. 81'A'+51.10 TO STA. 95'A'+25.86
(A) PREPARE FOUNDATION FOR ASPHALTIC SHOULDERS

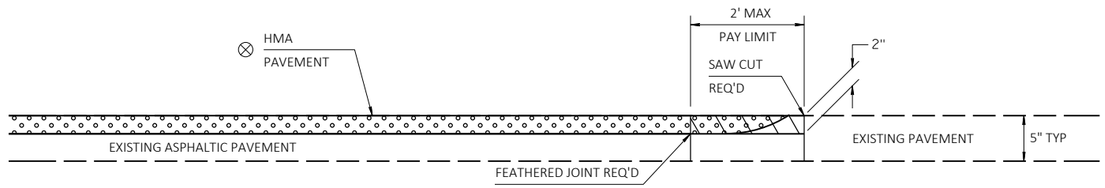
PROJECT NO: 1500-67-60	HWY: USH 10	COUNTY: MANITOWOC	TYPICAL SECTIONS - FINISHED	SHEET 5	E

2

2

SUPERELEVATION DATA

ROADWAY	CURVE NO.	PC	PT	R (FT)	TRANSITION IN REGION					TRANSITION OUT REGION					MAX e	DESIGN SPEED (MPH)
					END NORMAL CROWN	LEVEL CROWN	REVERSE CROWN	LOW SHOULDER MATCH	BEGIN FULL SUPER	END FULL SUPER	LOW SHOULDER MATCH	REVERSE CROWN	LEVEL CROWN	BEGIN NORMAL CROWN		
USH10	1	160+56.92	180+27.08	1922.60	159+20.39	159+71.59	160+22.79	160+73.99	160+99.59	179+84.41	180+10.01	180+61.21	181+12.41	181+63.61	5.00%	55
USH 10	2	83+04.96	93+72.00	1145.92	81+51.10	82+02.96	82+54.82	83+06.69	83+55.96	93+21.00	93+70.27	94+22.14	94+74.00	95+25.86	5.90%	55

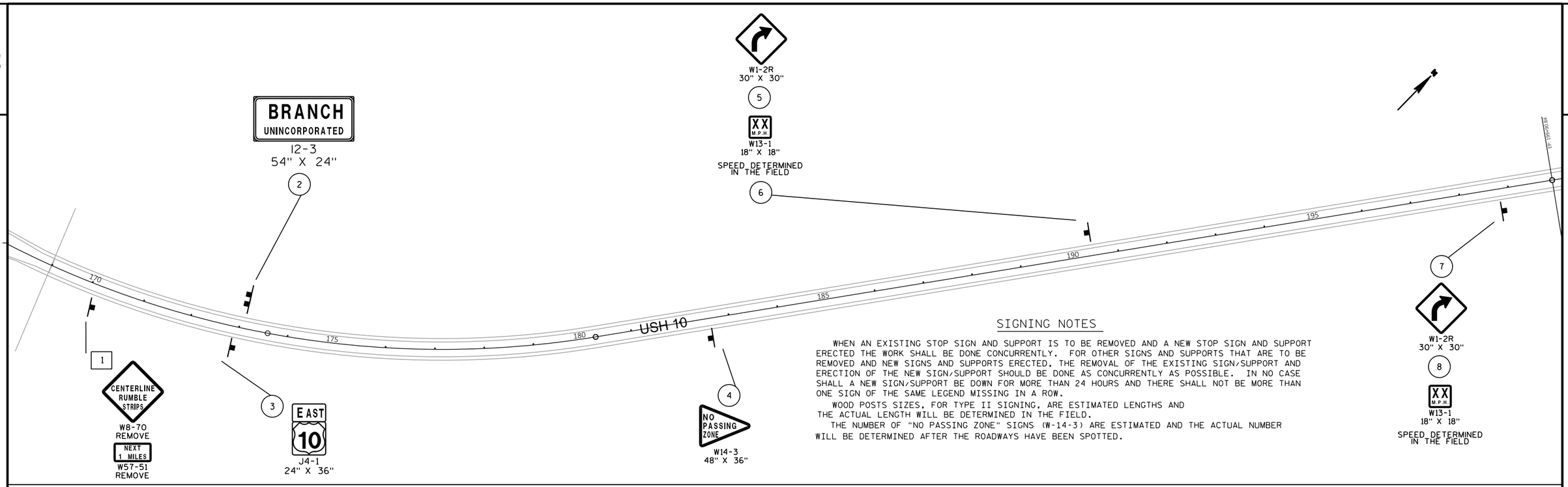


SEE TYPICAL SECTION FOR PAVEMENT TYPE AND THICKNESS OF INDIVIDUAL LAYERS

REMOVING ASPHALTIC SURFACE, MILLING

REMOVING ASPHALTIC SURFACE, BUTT JOINTS

BUTT JOINT DETAIL FOR MILLED ASPHALTIC PAVEMENTS

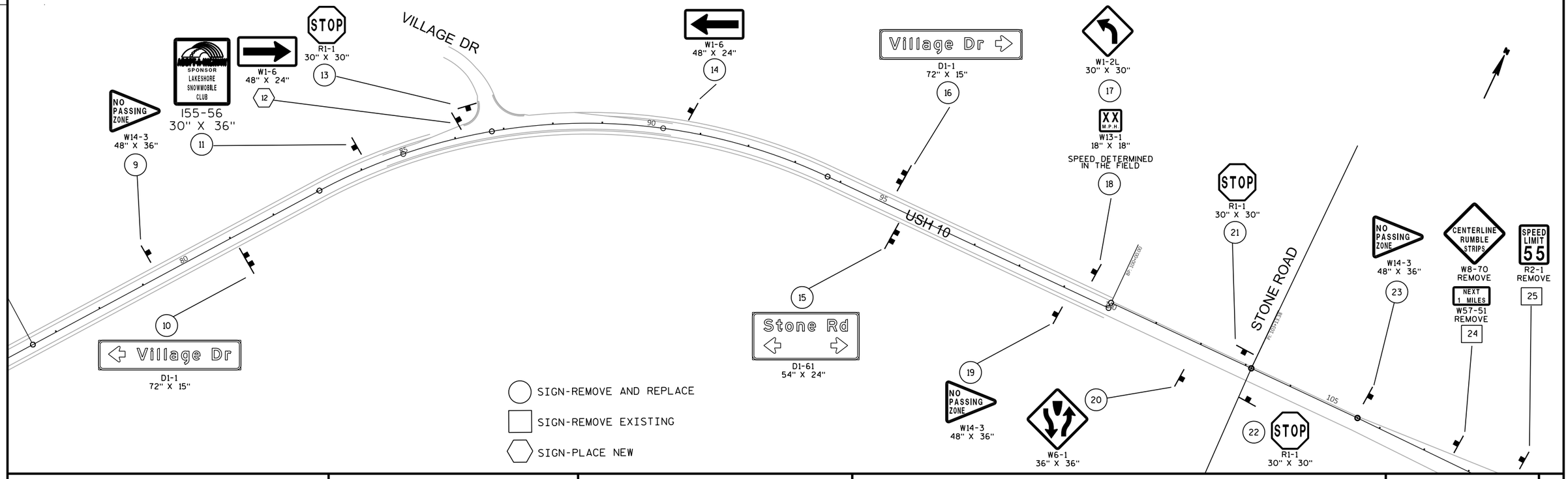


SIGNING NOTES

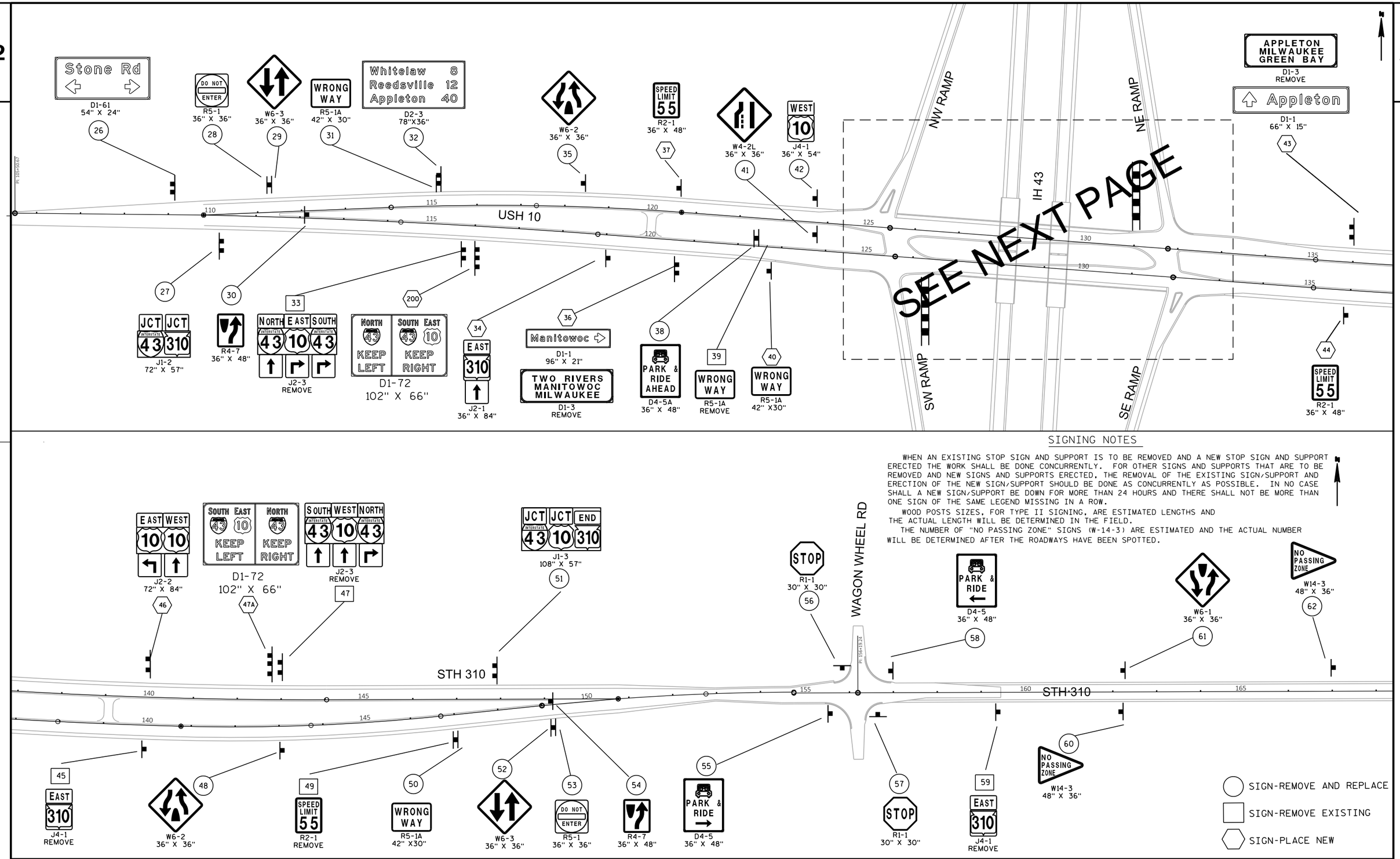
WHEN AN EXISTING STOP SIGN AND SUPPORT IS TO BE REMOVED AND A NEW STOP SIGN AND SUPPORT ERECTED THE WORK SHALL BE DONE CONCURRENTLY. FOR OTHER SIGNS AND SUPPORTS THAT ARE TO BE REMOVED AND NEW SIGNS AND SUPPORTS ERECTED, THE REMOVAL OF THE EXISTING SIGN/SUPPORT AND ERECTION OF THE NEW SIGN/SUPPORT SHOULD BE DONE AS CONCURRENTLY AS POSSIBLE. IN NO CASE SHALL A NEW SIGN/SUPPORT BE DOWN FOR MORE THAN 24 HOURS AND THERE SHALL NOT BE MORE THAN ONE SIGN OF THE SAME LEGEND MISSING IN A ROW.

WOOD POSTS SIZES, FOR TYPE II SIGNING, ARE ESTIMATED LENGTHS AND THE ACTUAL LENGTH WILL BE DETERMINED IN THE FIELD.

THE NUMBER OF "NO PASSING ZONE" SIGNS (W-14-3) ARE ESTIMATED AND THE ACTUAL NUMBER WILL BE DETERMINED AFTER THE ROADWAYS HAVE BEEN SPOTTED.



PROJECT NO: 1500-67-60	HWY: USH 10	COUNTY: MANITOWOC	PERMANENT SIGNING - TYPE II	SHEET 7	E



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SIGN-REMOVE AND REPLACE

SIGN-REMOVE EXISTING

SIGN-PLACE NEW

PROJECT NO: 1500-67-60	HWY: USH 10	COUNTY: MANITOWOC	PERMANENT SIGNING - TYPE II	SHEET 8	E

FILE NAME : N:\spo\traffic\SIGNING\Projects\1500-67-60 USH 10 MANITOWOC CTY\15006760_SIGNPLAN.dgn PLOT DATE : 14-DEC-2016 08:33 PLOT BY : dotets PLOT NAME : PLOT SCALE : 200:1

WISDOT/CADDS SHEET 42

SIGNING NOTES

WHEN AN EXISTING STOP SIGN AND SUPPORT IS TO BE REMOVED AND A NEW STOP SIGN AND SUPPORT ERECTED THE WORK SHALL BE DONE CONCURRENTLY. FOR OTHER SIGNS AND SUPPORTS THAT ARE TO BE REMOVED AND NEW SIGNS AND SUPPORTS ERECTED, THE REMOVAL OF THE EXISTING SIGN/SUPPORT AND ERECTION OF THE NEW SIGN/SUPPORT SHOULD BE DONE AS CONCURRENTLY AS POSSIBLE. IN NO CASE SHALL A NEW SIGN/SUPPORT BE DOWN FOR MORE THAN 24 HOURS AND THERE SHALL NOT BE MORE THAN ONE SIGN OF THE SAME LEGEND MISSING IN A ROW.

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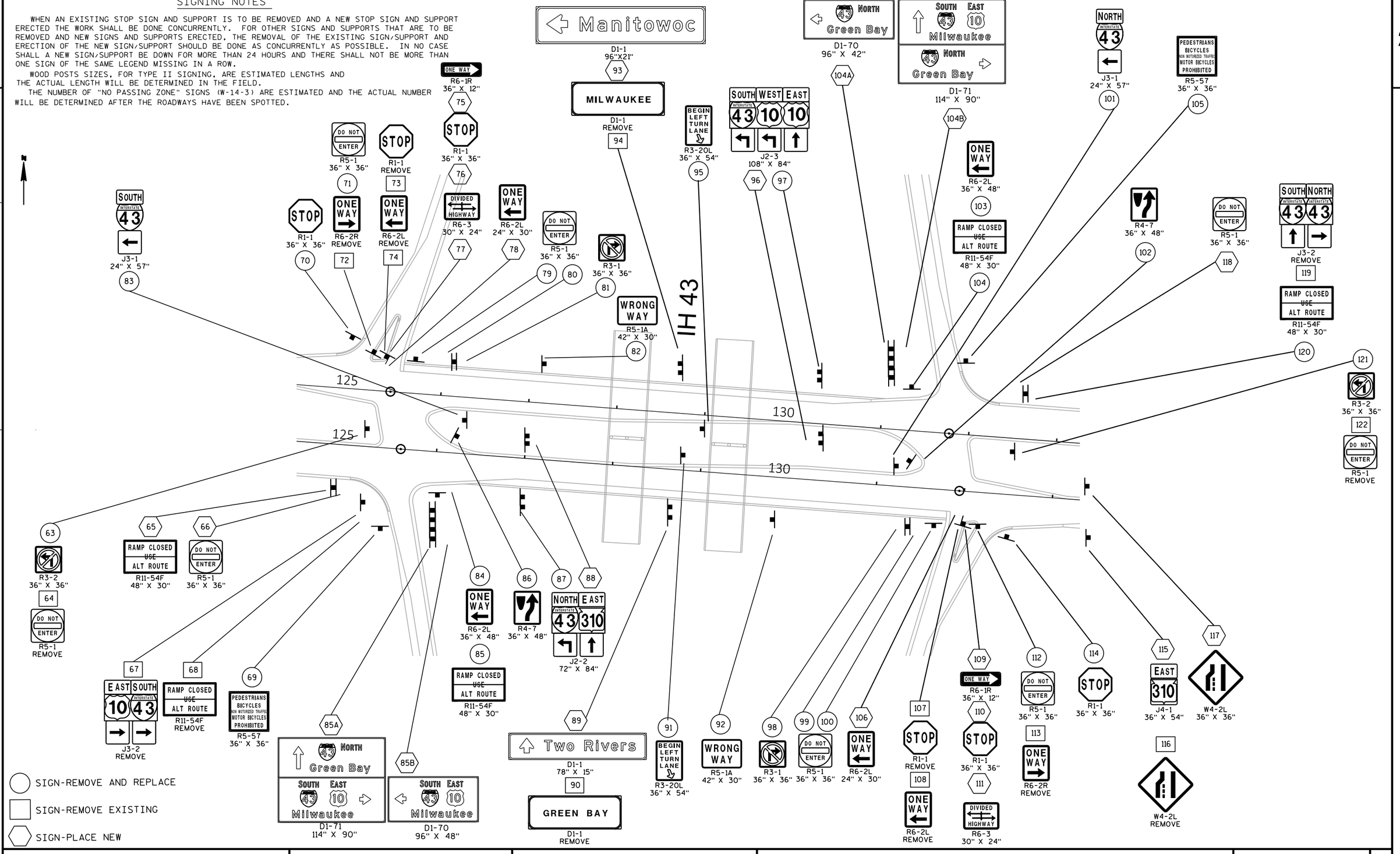
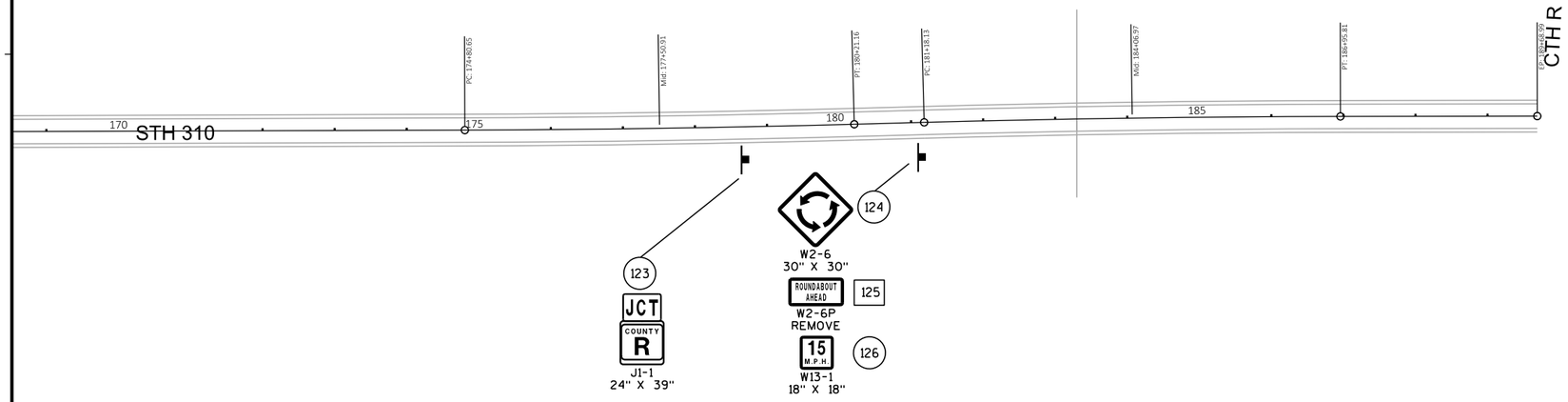


PROJECT NO: 1500-67-60	HWY: USH 10	COUNTY: MANITOWOC	PERMANENT SIGNING - TYPE II	SHEET 9	E

2



SIGN-REMOVE AND REPLACE

SIGN-REMOVE EXISTING

SIGN-PLACE NEW

SIGNING NOTES

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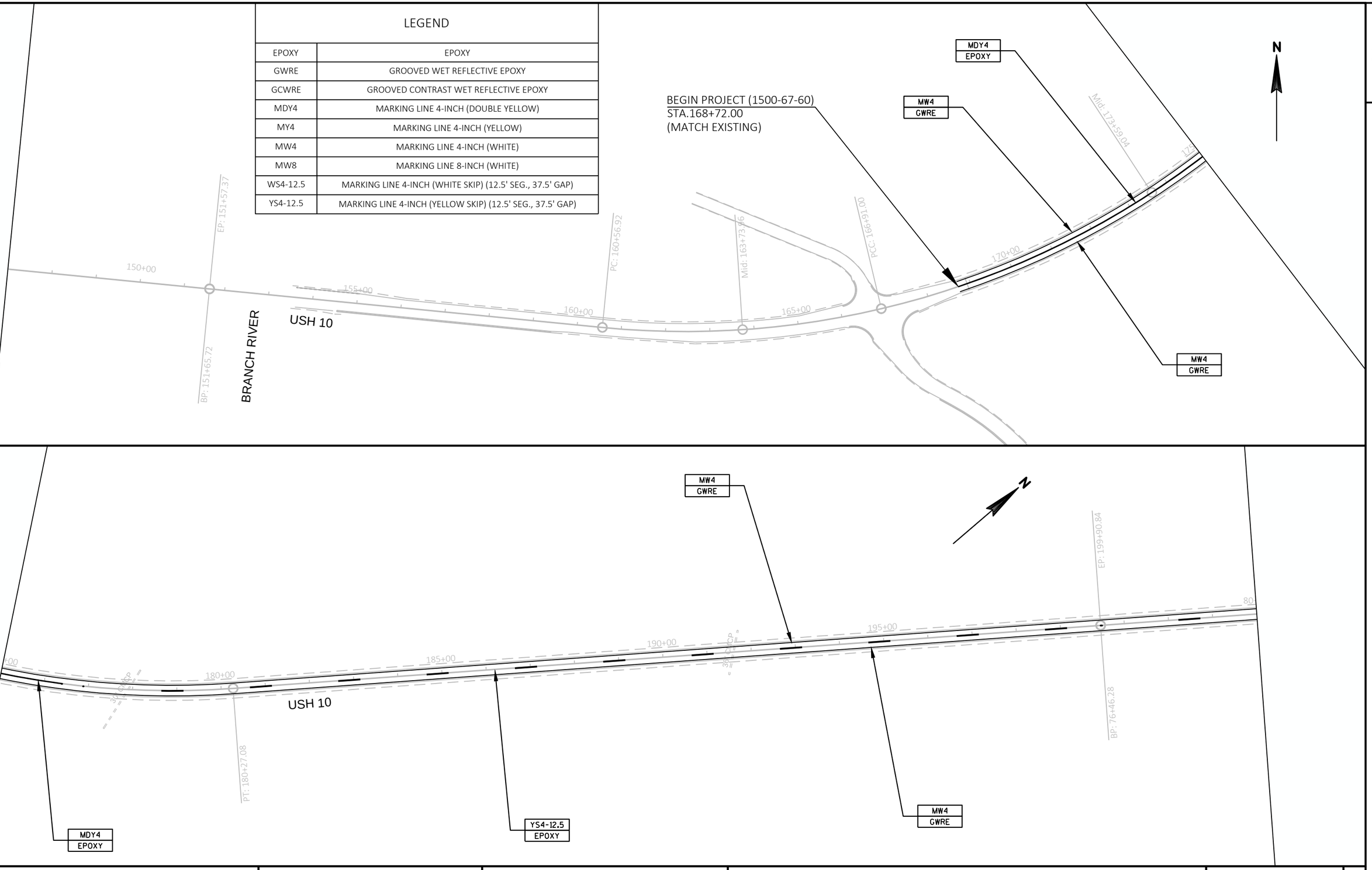
LEGEND	
EPOXY	EPOXY
GWRE	GROOVED WET REFLECTIVE EPOXY
GCWRE	GROOVED CONTRAST WET REFLECTIVE EPOXY
MDY4	MARKING LINE 4-INCH (DOUBLE YELLOW)
MY4	MARKING LINE 4-INCH (YELLOW)
MW4	MARKING LINE 4-INCH (WHITE)
MW8	MARKING LINE 8-INCH (WHITE)
WS4-12.5	MARKING LINE 4-INCH (WHITE SKIP) (12.5' SEG., 37.5' GAP)
YS4-12.5	MARKING LINE 4-INCH (YELLOW SKIP) (12.5' SEG., 37.5' GAP)



PROJECT NO: 1500-67-60	HWY: USH 10	COUNTY: MANITOWOC	PAVEMENT MARKING	SHEET 11	E

FILE NAME : P:\PROJECTS_CURRENT\MANITOWOC\WDOT_NER\USH 10 - 2016\ACAD\SHEETSPLAN\PAVEMENTMARKING\024501_PM.DWG
LAYOUT NAME - 024501

PLOT DATE : 5/26/2017 2:12 PM PLOT BY : DEXTER KAETTERHENRY PLOT NAME : PLOT SCALE : 1 IN:200 FT

LEGEND

EPOXY	EPOXY
GWRE	GROOVED WET REFLECTIVE EPOXY
GCWRE	GROOVED CONTRAST WET REFLECTIVE EPOXY
MDY4	MARKING LINE 4-INCH (DOUBLE YELLOW)
MY4	MARKING LINE 4-INCH (YELLOW)
MW4	MARKING LINE 4-INCH (WHITE)
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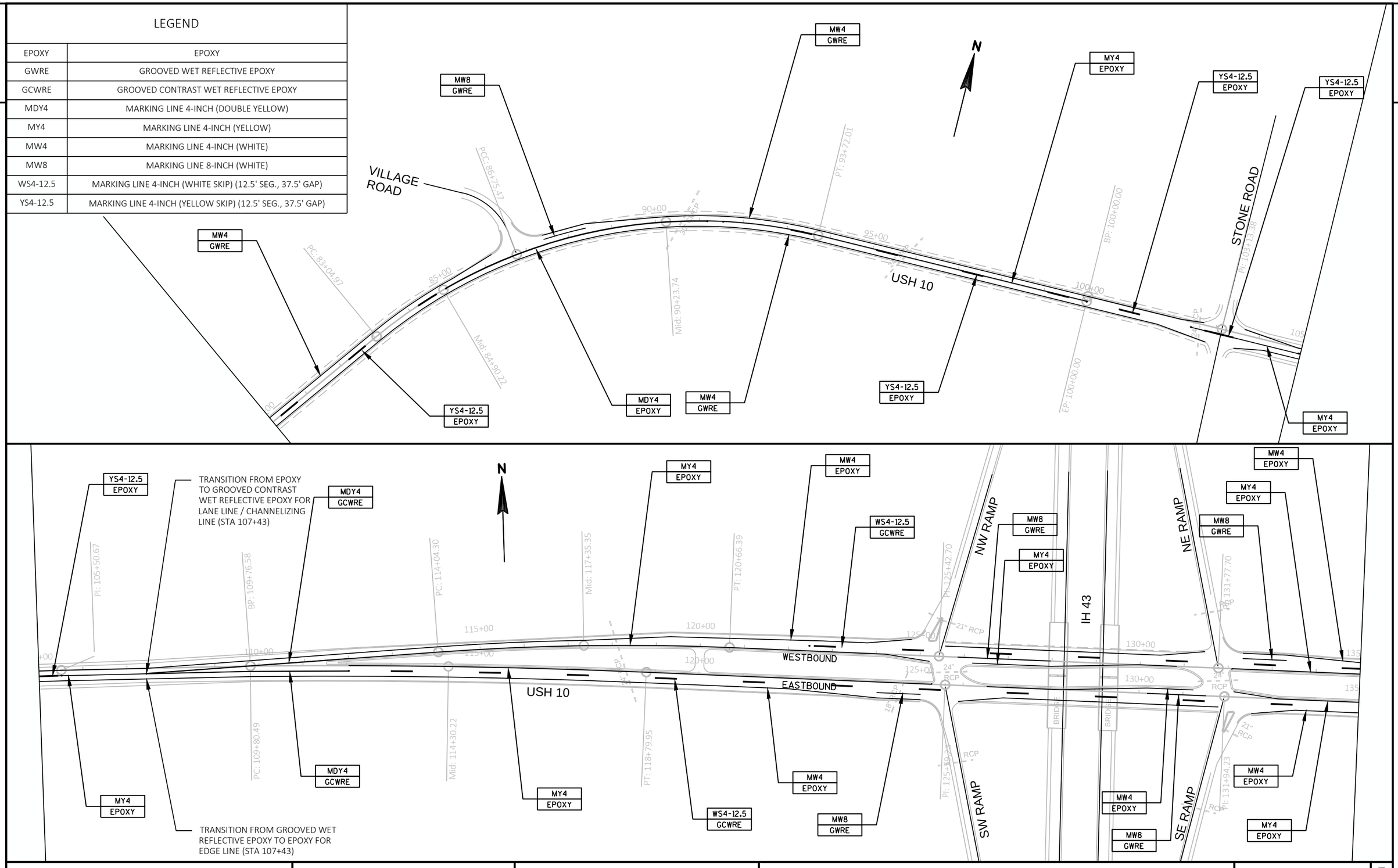
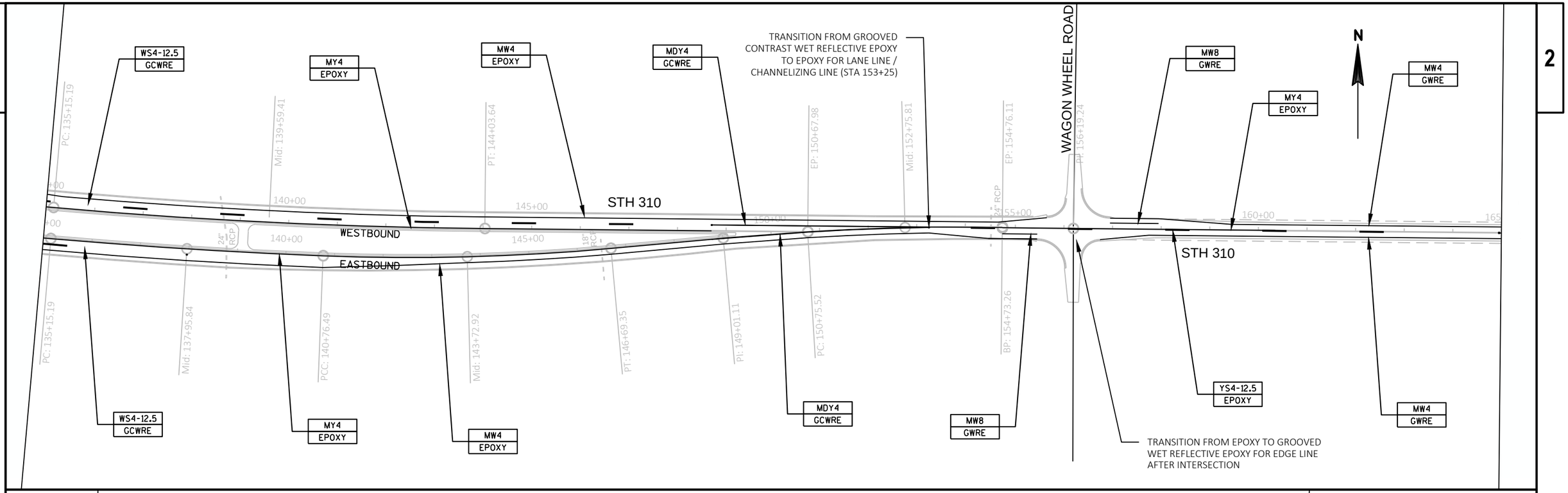


PROJECT NO: 1500-67-60	HWY: USH 10	COUNTY: MANITOWOC	PAVEMENT MARKING	SHEET 12	E



LEGEND	
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PROJECT NO: 1500-67-60	HWY: USH 10	COUNTY: MANITOWOC	PAVEMENT MARKING	SHEET 13	E

FILE NAME : P:\PROJECTS_CURRENT\MANITOWOC\WDOT_NER\USH 10 - 2016\ACAD\SHEETSPLAN\PAVEMENTMARKING\024501_PM.DWG
LAYOUT NAME - 024503

PLOT DATE : 5/26/2017 2:08 PM PLOT BY : DEXTER KAETTERHENRY PLOT NAME : PLOT SCALE : ##########

2

ROAD WORK 1 MILE W20-1F

ROAD WORK 1/2 MILE W20-1G

ROAD WORK AHEAD W20-1A

BEGIN PROJECT (1500-67-60)
STA.168+72.00

END ROAD WORK
G20-2A
48"X24"

N

Mid: 173+59.04

175

EP: 151+57.37

PC: 160+56.92

Mid: 163+73.96

PCC: 166+91.00

150+00

155+00

160+00

165+00

170+00

USH 10

BRANCH RIVER

BP: 151+65.72

ROAD WORK 1000 FT W20-1C

ROAD WORK 500 FT W20-1D

ROAD WORK AHEAD W20-1A

LOCATED SIGN 5,280 FT FROM STATION 168+72

LOCATED SIGN 2,640 FT FROM STATION 168+72

GENERAL TRAFFIC CONTROL NOTES:

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

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

PLACE TEMPORARY PORTABLE RUMBLE STRIP ARRAY ACCORDING TO SDD TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION.

ALL SIGNS OR PAVEMENT MARKING, TEMPORARY OR EXISTING, WHICH MAY CONFLICT WITH THE CONSTRUCTION TRAFFIC PATTERN SHALL BE REMOVED OR COVERED.

ALL SIGNS AND DEVICES SHALL BE IN CONFORMANCE WITH THE "WISCONSIN MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (WMUTCD), A SUPPLEMENT TO THE FEDERAL HIGHWAY ADMINISTRATION'S "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES".

SEE SDD TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION.

N

EP: 199+90.84

80

+00

180+00

185+00

190+00

195+00

USH 10

PT: 180+27.08

BP: 76+46.28

PROJECT NO: 1500-67-60	HWY: USH 10	COUNTY: MANITOWOC	TRAFFIC CONTROL	SHEET 14	E

GENERAL TRAFFIC CONTROL NOTES:

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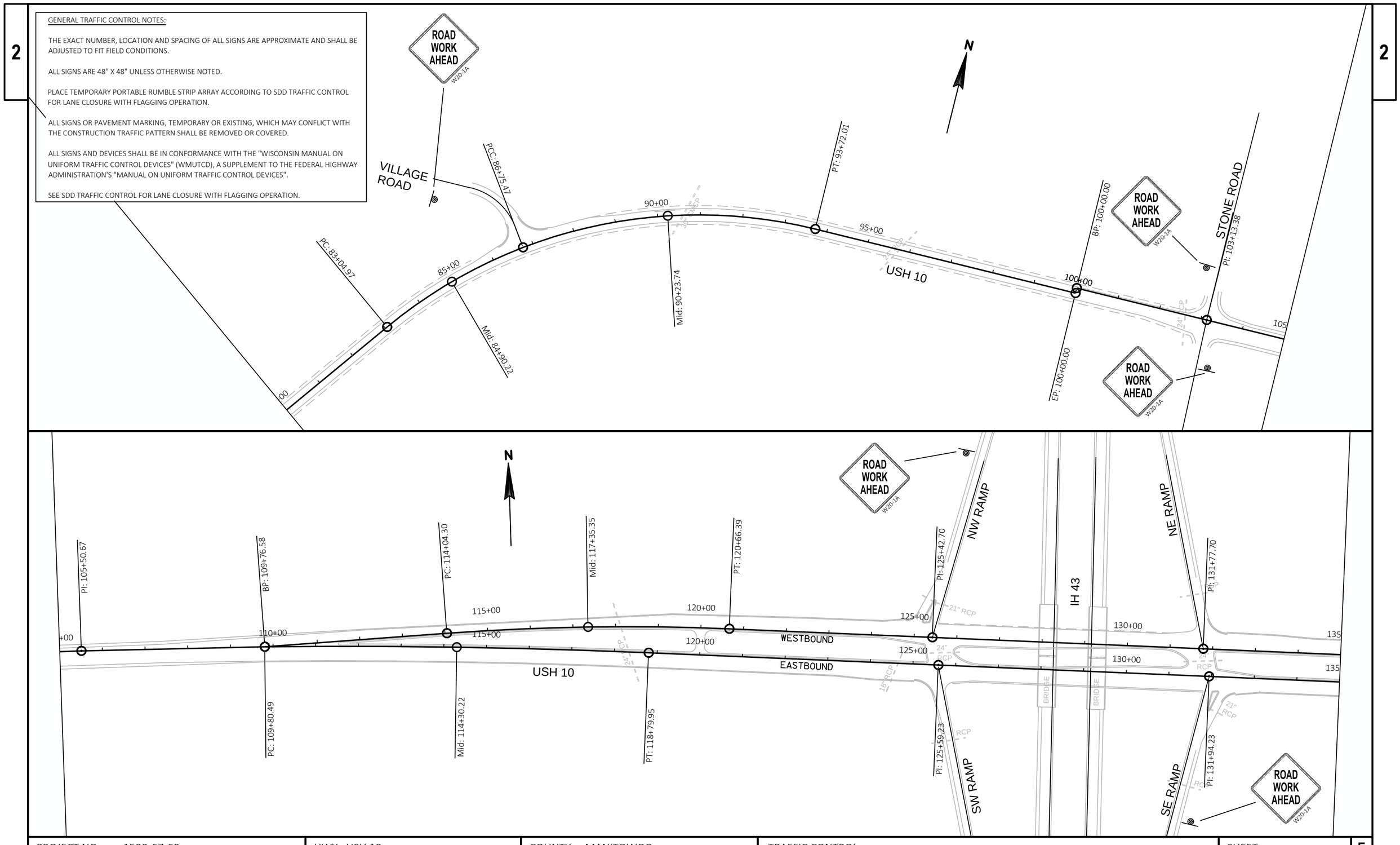


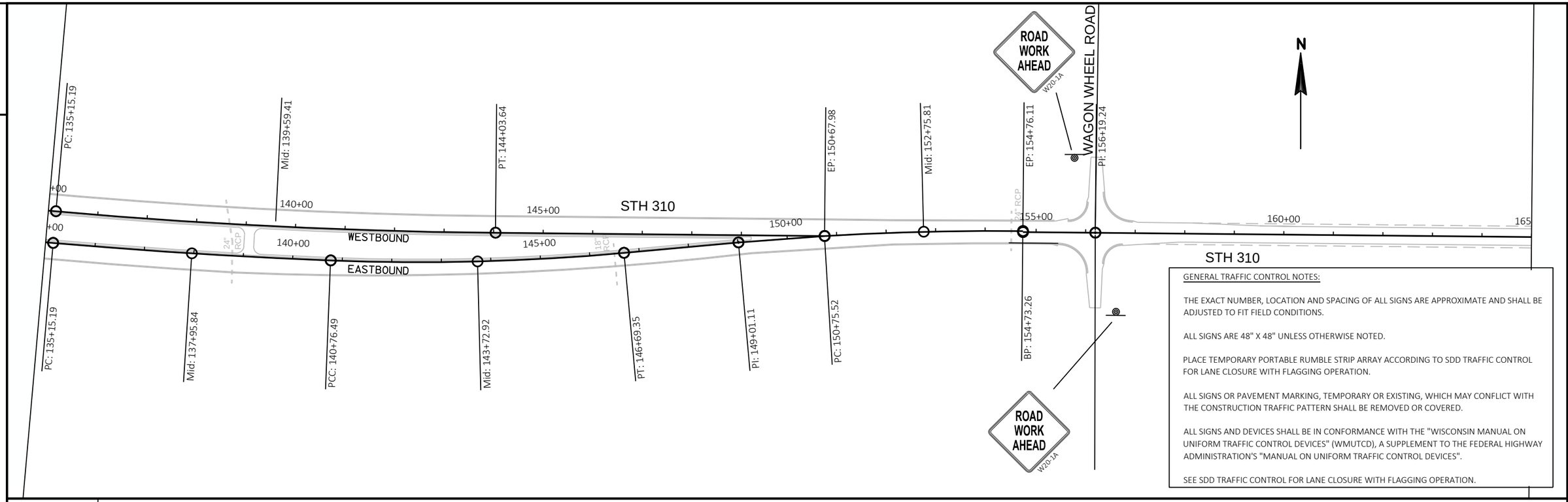
PROJECT NO: 1500-67-60	HWY: USH 10	COUNTY: MANITOWOC	TRAFFIC CONTROL	SHEET 15	E

FILE NAME : P:\PROJECTS_CURRENT\MANITOWOC\WDOT_NER\USH 10 - 2016\ACAD\SHEETSPLAN\TRAFFIC CONTROL\025001_TC.DWG
LAYOUT NAME - 025002

PLOT DATE : 1/30/2017 8:25 AM PLOT BY : DEXTER KAETTERHENRY PLOT NAME : PLOT SCALE : ############

WISDOT/CADDS SHEET 44

2



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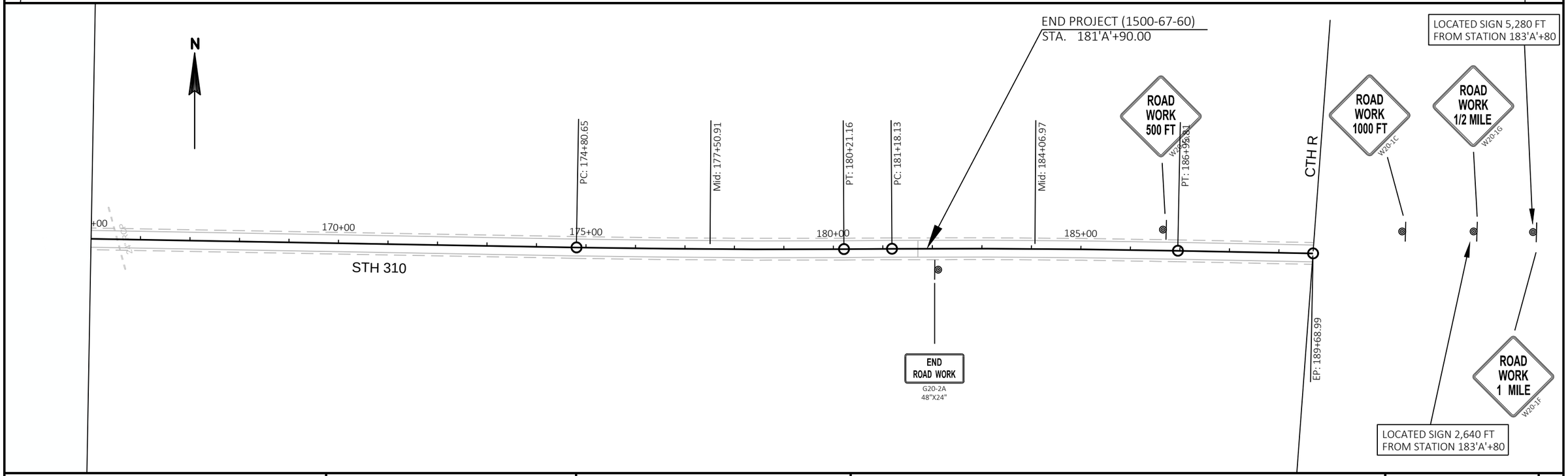
SEE SDD TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION.



PROJECT NO: 1500-67-60	HWY: USH 10	COUNTY: MANITOWOC	TRAFFIC CONTROL	SHEET 16	E

1500-67-60

Line	Item	Item Description	Unit	Total	Qty
0014	204.0115	Removing Asphaltic Surface Butt Joints	SY	20.000	20.000
0016	204.0120	Removing Asphaltic Surface Milling	SY	68,150.000	68,150.000
0042	211.0100	Prepare Foundation for Asphaltic Paving (project) 02. 1500-67-60	LS	1.000	1.000
0046	211.0400	Prepare Foundation for Asphaltic Shoulders	STA	186.000	186.000
0052	213.0100	Finishing Roadway (project) 03. 1500-67-60	EACH	1.000	1.000
0054	305.0110	Base Aggregate Dense 3/4-Inch	TON	1,200.000	1,200.000
0058	305.0500	Shaping Shoulders	STA	132.000	132.000
0068	440.4410	Incentive IRI Ride	DOL	13,560.000	13,560.000
0070	455.0605	Tack Coat	GAL	5,300.000	5,300.000
0072	460.2005	Incentive Density PWL HMA Pavement	DOL	5,280.000	5,280.000
0074	460.2010	Incentive Air Voids HMA Pavement	DOL	9,330.000	9,330.000
0076	460.4110.S	Reheating HMA Pavement Longitudinal Joints	LF	25,900.000	25,900.000
0080	460.6224	HMA Pavement 4 MT 58-28 S	TON	9,330.000	9,330.000
0084	465.0110	Asphaltic Surface Patching	TON	15.000	15.000
0090	465.0400	Asphaltic Shoulder Rumble Strips	LF	12,320.000	12,320.000
0092	465.0425	Asphaltic Shoulder Rumble Strips 2-Lane Rural	LF	17,160.000	17,160.000
0094	465.0475	Asphalt Center Line Rumble Strips 2-Lane Rural	LF	9,240.000	9,240.000
0172	618.0100	Maintenance And Repair of Haul Roads (project) 03. 1500-67-60	EACH	1.000	1.000
0174	619.1000	Mobilization	EACH	0.100	0.100
0176	624.0100	Water	MGAL	17.000	17.000
0216	634.0614	Posts Wood 4x6-Inch X 14-FT	EACH	27.000	27.000
0218	634.0616	Posts Wood 4x6-Inch X 16-FT	EACH	47.000	47.000
0220	634.0618	Posts Wood 4x6-Inch X 18-FT	EACH	32.000	32.000
0222	634.0624	Posts Wood 4x6-Inch X 24-FT	EACH	8.000	8.000
0224	637.2210	Signs Type II Reflective H	SF	1,233.740	1,233.740
0226	637.2215	Signs Type II Reflective H Folding	SF	40.000	40.000
0228	637.2230	Signs Type II Reflective F	SF	170.000	170.000
0232	638.2602	Removing Signs Type II	EACH	81.000	81.000
0234	638.3000	Removing Small Sign Supports	EACH	93.000	93.000
0236	642.5201	Field Office Type C	EACH	0.100	0.100
0242	643.0100	Traffic Control (project) 03. 1500-67-60	EACH	1.000	1.000
0244	643.0300	Traffic Control Drums	DAY	990.000	990.000
0248	643.0310.S	Temporary Portable Rumble Strips 02. 1500-67-60	LS	1.000	1.000
0252	643.0420	Traffic Control Barricades Type III	DAY	165.000	165.000
0256	643.0900	Traffic Control Signs	DAY	660.000	660.000
0264	643.1050	Traffic Control Signs PCMS	DAY	14.000	14.000
0278	646.0106	Pavement Marking Epoxy 4-Inch	LF	25,905.000	25,905.000
0280	646.0406	Pavement Marking Same Day Epoxy 4-Inch	LF	9,705.000	9,705.000

1500-67-60

Line	Item	Item Description	Unit	Total	Qty
0282	646.0842.S	Pavement Marking Grooved Contrast Wet Reflective Epoxy 4-Inch	LF	4,950.000	4,950.000
0284	646.2304.S	Pavement Marking Grooved Wet Reflective Epoxy 4-Inch	LF	17,180.000	17,180.000
0286	646.2308.S	Pavement Marking Grooved Wet Reflective Epoxy 8-Inch	LF	820.000	820.000
0292	648.0100	Locating No-Passing Zones	MI	1.830	1.830
0294	649.0402	Temporary Pavement Marking Paint 4-Inch	LF	18,180.000	18,180.000
0306	650.8000	Construction Staking Resurfacing Reference	LF	13,663.000	13,663.000
0310	650.9910	Construction Staking Supplemental Control (project) 02.1500-67-60	LS	1.000	1.000
0314	690.0150	Sawing Asphalt	LF	164.000	164.000

3

REMOVING ASPHALTIC SURFACE BUTT JOINTS

STATION - STATION	LOCATION	204.0115 SY	COMMENTS
CATEGORY CODE 0010			
169+00		10	
181'A'+90		10	
TOTAL		**20**	

REMOVING ASPHALTIC SURFACE MILLING

STATION - STATION	LOCATION	204.0120 SY	COMMENTS
CATEGORY CODE 0010			
169+00 - 103'A'+13		19,300	
103'A'+13 - 110'A'+00		3,600	
110'A'+00 - 150'A'+00		32,000	
150'A'+00 - 156'A'+19		3,350	
156'A'+19 - 181'A'+90		9,900	
TOTAL		**68,150**	

PREPARE FOUNDATION ITEMS

STATION - STATION	211.0100 PREPARE FOUNDATION FOR ASPHALTIC PAVING LS
CATEGORY CODE 0010	
PROJECT 1500-67-60	1
TOTALS	**1**

3

PREPARE FOUNDATION ITEMS

STATION - STATION	LOCATION	211.0400 PREPARE FOUNDATION FOR ASPHALTIC SHOULDERS STA	COMMENTS
CATEGORY CODE 0010			
168+72 - 199+91	RT	31	--
168+72 - 199+91	LT	31	--
76'A'+46 - 101'A'+69	RT	25	--
76'A'+46 - 84'A'+73	LT	8	--
89'A'+89 - 101'A'+67	LT	12	--
104'A'+67 - 110'A'+00	RT	6	--
104'A'+91 - 110'A'+00	LT	6	--
111'A'+53 - 119'A'+75	EB	8	INSIDE
111'A'+53 - 119'A'+75	WB	8	INSIDE
120'A'+25 - 125'A'+29	EB	5	INSIDE
120'A'+25 - 124'A'+20	WB	5	INSIDE
127'A'+43 - 128'A'+19	EB	1	INSIDE
129'A'+97 - 130'A'+84	WB	1	INSIDE
132'A'+09 - 138'A'+85	WB	7	INSIDE
134'A'+06 - 138'A'+85	EB	5	INSIDE
139'A'+35 - 149'A'+27	EB	10	INSIDE
139'A'+35 - 149'A'+27	WB	10	INSIDE
150'A'+00 - 153'A'+25	RT	3	--
150'A'+00 - 154'A'+18	LT	4	--
TOTALS		**186**	**--**

WATER

STATION - STATION	LOCATION	624.0100 MGAL
CATEGORY CODE 0010		
168+72 - 199+91	LT & RT	3
76'A'+46 - 101'A'+69	LT & RT	2
104'A'+67 - 110'A'+00	LT & RT	1
110'A'+00 - 150'A'+00	LT & RT (OUT)	4
110'A'+00 - 150'A'+00	LT & RT (IN)	4
150'A'+00 - 154'A'+18	LT & RT	1
156'A'+19 - 181'A'+90	LT & RT	2
TOTAL		**17**

BASE AGGREGATE DENSE AND BREAKER RUN ITEMS

STATION - STATION	LOCATION	305.0110 BASE AGGREGATE DENSE 3/4-INCH TON	305.0500 SHAPING SHOULDERS STA	COMMENTS
CATEGORY CODE 0010				
168+72 - 199+91	LT & RT	220	--	SHOULDERING MATERIAL
76'A'+46 - 101'A'+69	LT & RT	175	--	SHOULDERING MATERIAL
104'A'+67 - 110'A'+00	LT & RT	40	--	SHOULDERING MATERIAL
110'A'+00 - 150'A'+00	LT & RT (OUT)	300	80	SHOULDERING MATERIAL
110'A'+00 - 150'A'+00	LT & RT (IN)	260	--	SHOULDERING MATERIAL
150'A'+00 - 154'A'+18	LT & RT	30	--	SHOULDERING MATERIAL
156'A'+19 - 181'A'+90	LT & RT	175	52	SHOULDERING MATERIAL
TOTALS		**1,200**	**132**	

ASPHALTIC ITEMS

STATION - STATION	LOCATION	455.0605 TACK COAT GAL	460.6224 HMA PAVEMENT 4 MT 58-28 S TON	# PWL DENSITY INCENTIVE TON	## PWL AIR VOIDS TON	465.0110 ASPHALTIC SURFACE PATCHING TON	COMMENTS
CATEGORY CODE 0010							
168+72 - 181'A'+90		4,930	8,110	5,280	8,110	--	MAINLINE / EXISTING PAVED SHLD
168+72 - 181'A'+90		370	1,220	--	1,220	--	2' SHOULDER ADDITION
UNDISTRIBUTED		--	--	--	--	15	MINOR REPAIR AFTER MILLING
		5,300	**9,330**	**5,280**	**9,330**	**15**	

TONNAGE IS ELIGIBLE FOR INCENTIVE DENSITY PWL 460.2005 AND INCENTIVE AIR VOIDS 460.2010, TOTAL IS 5,280 TONS
TONNAGE IS ELIGIBLE FOR INCENTIVE AIR VOIDS 460.2010 AND DENSITY IS TESTED FOR ACCEPTANCE IN THOSE AREA. TOTAL IS 9,330 TONS

MISC. SHEET 1

3

RUMBLE STRIP ITEMS

STATION - STATION	LOCATION	465.0475 ASPHALTIC CENTER LINE RUMBLE STRIPS 2-LANE RURAL LF	465.0400 ASPHALTIC SHOULDER RUMBLE STRIPS LF	465.0425 ASPHALTIC SHOULDER RUMBLE STRIPS 2-LANE RURAL LF	COMMENTS
CATEGORY CODE 0010					
168+72 - 110'A'+00	CL	6,477	--	--	--
150'A'+00 - 181'A'+90	CL	2,763	--	--	--
168+72 - 199+91	RT	--	--	3,119	TYPE 1
76'A'+46 - 101'A'+69	RT	--	--	2,523	TYPE 1
104'A'+67 - 110'A'00	RT	--	--	533	TYPE 1
168+72 - 199+91	LT	--	--	3,119	TYPE 1
76'A'+46 - 84'A'+73	LT	--	--	827	TYPE 1
89'A'+89 - 101'A'+67	LT	--	--	1,178	TYPE 1
104'A'+91 - 110'A'+00	LT	--	--	509	TYPE 1
110'A'+00 - 122'A'+05	EB	--	1,205	--	OUTSIDE
127'A'+43 - 131'A'+82	EB	--	439	--	OUTSIDE
134'A'+06 - 150'A'+00	EB	--	1,594	--	OUTSIDE
111'A'+53 - 119'A'+75	EB	--	822	--	INSIDE
120'A'+25 - 125'A'+29	EB	--	504	--	INSIDE
127'A'+43 - 128'A'+19	EB	--	76	--	INSIDE
134'A'+06 - 138'A'+85	EB	--	479	--	INSIDE
139'A'+35 - 149'A'+27	EB	--	992	--	INSIDE
111'A'+53 - 119'A'+75	WB	--	822	--	INSIDE
120'A'+25 - 124'A'+20	WB	--	395	--	INSIDE
129'A'+97 - 130'A'+84	WB	--	87	--	INSIDE
132'A'+09 - 138'A'+85	WB	--	676	--	INSIDE
139'A'+35 - 149'A'+27	WB	--	992	--	INSIDE
110'A'+00 - 123'A'+29	WB	--	1,329	--	OUTSIDE
125'A'+56 - 129'A'+96	WB	--	440	--	OUTSIDE
135'A'+32 - 150'A'+00	WB	--	1,468	--	OUTSIDE
150'A'+00 - 153'A'+25	RT	--	--	325	TYPE 1
158'A'+25 - 181'A'+90	RT	--	--	2,365	TYPE 1
150'A'+00 - 154'A'+17	LT	--	--	417	TYPE 1
159'A'+45 - 181'A'+90	LT	--	--	2,245	TYPE 1
TOTALS		**9,240**	**12,320**	**17,160**	

MAINTENANCE AND REPAIR OF HAUL ROAD

STATION - STATION	618.0100 EACH
CATEGORY CODE 0010	
PROJECT 1500-67-60	1
TOTALS	**1**

REHEATING HMA PAVEMENT LONGITUDINAL JOINT

STATION - STATION	LOCATION	460.4110.S LF
168+72 - 110'A'+00	CL	6,500
110'A'+00 - 150'A'+00	LT / CL / RT	16,000
150'A'+00 - 181'A'+90	CL	3,400
	TOTAL	**25,900**

3

TRAFFIC CONTROL ITEMS

LOCATION	643.0300 DRUMS DAYS	643.0310.S TEMPORARY PORTABLE RUMBLE STRIPS LS	643.0420 BARRICADES TYPE III DAYS	643.0900 SIGNS DAYS	643.1050 SIGNS PORTABLE CHANGEABLE MESSAGE DAYS
CATEGORY CODE 0010					
168+72 - 181'A'+90	990	1	165	660	14
TOTALS	**990**	**1**	**165**	**660**	**14**

SAWING PAVEMENT ITEMS

STATION - STATION	LOCATION	690.0150 ASPHALT LF	COMMENTS
CATEGORY CODE 0010			
169+00		30	
181'A'+90		34	
UNDISTRIBUTED		100	POTENTIAL ASPHALT SURFACE PATCHING
TOTALS		**164**	

CONSTRUCTION STAKING ITEMS

STATION - STATION	650.8000 RESURFACING REFERENCE LF	650.9910 SUPPLEMENTAL CONTROL LS
CATEGORY CODE 0010		
168+72 - 199+90.84	3,119	1
76'A'+46.28 - 181'A'+90	10,544	--
	13,663	**1**

LOCATING NO-PASSING ZONES

STATION - STATION	648.0100 MI
CATEGORY CODE 0010	
168+72 - 199+91	0.59
76+46 - 110+00	0.64
150+00 - 181+90	0.60
TOTAL	**1.83**

PAVEMENT MARKING ITEMS

STATION - STATION	LOCATION	646.0106 EPOXY 4-INCH WHITE LF	646.0106 EPOXY 4-INCH YELLOW LF	646.2308.S GROOVED WET REFLECTIVE EPOXY 8-INCH LF	646.0406 SAME DAY EPOXY 4-INCH LF	649.0402 TEMPORARY PAINT 4-INCH LF	646.0842.S GROOVED CONTRAST WET REFLECTIVE EPOXY 4-INCH LF	646.2304.S GROOVED WET REFLECTIVE EPOXY 4-INCH LF	COMMENTS
CATEGORY CODE 0010									
168+72 - 199+90.84	LT/ RT	--	2,125	--	2,125	6,250	--	6,250	
76'A'+46.28 - 110'A'+00	LT/ RT	--	3,180	100	3,180	6,200	--	5,920	
110'A'+00 - 150'A'+00	LT/ RT	9,300	6,900	550	--	--	4,950	--	WHITE SKIPS NOT NEED TO BE SAME DAY
150'A'+00 - 181'A'+90	LT/ RT	--	4,400	170	4,400	5,730	--	5,010	
TOTALS		**9,300**	**16,605**	**820**	**9,705**	**18,180**	**4,950**	**17,180**	
		25,905							

MISC. SHEET 2

ERECTION & REMOVAL OF PERMANENT SIGNING, TYPE II

SIGN NO.	LOCATION	SIGN CODE	W X H	637.2210 SIGNS TYPE II REFLECTIVE TYPE H S.F.	637.2215 SIGNS TYPE II REFL. TYPE H FOLDING S.F.	637.2230 SIGNS TYPE II REFLECTIVE TYPE F S.F.	634.0614 POSTS WOOD 4x6x14 EACH	634.0616 POSTS WOOD 4x6x16 EACH	634.0618 POSTS WOOD 4x6x18 EACH	634.0624 POSTS WOOD 4x6x24 EACH	638.2602 REMOVING SIGNS TYPE II EACH	638.3000 REMOVING SMALL SIGN SUPPORTS EACH	REMARKS
1	USH 10, S. OF VILLAGE DR	W8-70	---	---	---	---	---	---	---	---	1	1	REMOVE W57-51 ALSO
2	"	I2-3	54" X 24"	9.00	---	---	2	---	---	---	1	2	SEE DETAIL SHEET
3	"	J4-1	24" X 36"	6.00	---	---	1	---	---	---	1	1	SEE PLAN SHEET
4	"	W14-3	48" X 36"	---	---	6.00	1	---	---	---	1	1	
5	"	W1-2R	30" X 30"	---	---	6.25	---	1	---	---	1	1	
6	"	W13-1	18" X 18"	---	---	2.25	---	---	---	---	---	---	MOUNT BELOW SIGN 5, PART OF SIGN 5 REMOVAL
7	"	W1-2L	30" X 30"	---	---	6.25	---	1	---	---	1	1	
8	"	W13-1	18" X 18"	---	---	2.25	---	---	---	---	---	---	MOUNT BELOW SIGN 7, PART OF SIGN 7 REMOVAL
9	"	W14-3	48" X 36"	---	---	6.00	1	---	---	---	1	1	
10	"	D1-1	72" X 15"	7.50	---	---	2	---	---	---	1	2	SEE DETAIL SHEET
11	"	I55-56	30" X 36"	7.50	---	---	1	---	---	---	1	1	LAKESHORE SNOWMOBILE CLUB
12	"	W1-6	48" X 24"	---	---	8.00	1	---	---	---	1	1	
13	VILLAGE DRIVE	R1-1	30" X 30"	5.18	---	---	1	---	---	---	1	1	
14	USH 10, N. OF VILLAGE DR	W1-6	48" X 24"	---	---	8.00	1	---	---	---	1	1	
15	"	D1-61	54" X 24"	9.00	---	---	2	---	---	---	1	2	SEE DETAIL SHEET
16	"	D1-1	72" X 15"	7.50	---	---	2	---	---	---	1	2	SEE DETAIL SHEET
17	"	W1-2L	30" X 30"	---	---	6.25	---	1	---	---	1	1	
18	"	W13-1	18" X 18"	---	---	2.25	---	---	---	---	---	---	MOUNT BELOW SIGN 17, PART OF SIGN 17 REMOVAL
19	"	W14-3	36" X 36"	---	---	9.00	---	1	---	---	1	1	
20	"	W6-1	36" X 36"	---	---	9.00	---	1	---	---	1	1	
21	STONE ROAD	R1-1	30" X 30"	5.18	---	---	1	---	---	---	1	1	
22	"	R1-1	30" X 30"	5.18	---	---	1	---	---	---	1	1	
23	USH 10, N. OF STONE RD	W14-3	36" X 36"	---	---	9.00	---	1	---	---	1	1	
24	"	W8-70	---	---	---	---	---	---	---	---	1	1	ALSO REMOVE W57-51
25	"	R2-1	---	---	---	---	---	---	---	---	1	1	
26	"	D1-61	54" X 24"	9.00	---	---	2	---	---	---	1	2	
27	"	J1-2	72" X 57"	28.50	---	---	---	---	2	---	1	1	SEE PLAN SHEET
28	"	R5-1	36" X 36"	9.00	---	---	---	---	1	---	1	1	
29	"	W6-3	36" X 36"	---	---	9.00	---	---	---	---	---	---	MOUNT TO BACK OF SIGN 28, PART OF SIGN 28 REMOVAL
30	"	R4-7	36" X 48"	12.00	---	---	---	---	1	---	1	1	
31	"	R5-1A	42" X 30"	8.75	---	---	---	---	---	---	---	---	MOUNT TO BACK OF SIGN 32, PART OF SIGN 32 REMOVAL
32	"	D2-3	78" X 36"	19.50	---	---	---	---	2	---	1	2	SEE DETAIL SHEET
33	"	J2-3	---	---	---	---	---	---	---	---	1	2	
33A	"	D1-72	102" X 66"	46.75	---	---	---	---	3	---	---	---	SEE DETAIL SHEET
34	"	J2-1	36" X 84"	21.00	---	---	---	---	1	---	---	---	SEE PLAN SHEET
35	"	W6-2	36" X 36"	---	---	9.00	---	---	1	---	1	1	
36	"	D1-3	96" X 21"	14.00	---	---	2	---	---	---	1	2	SEE DETAIL SHEET
37	"	R2-1	36" X 48"	12.00	---	---	---	1	---	---	---	---	55 MPH
38	"	D4-5A	36" X 48"	12.00	---	---	---	---	1	---	1	1	
39	"	R5-1A	---	---	---	---	---	---	---	---	---	---	PART OF SIGN 38 REMOVAL
40	"	R5-1A	42" X 30"	8.75	---	---	---	1	---	---	---	---	
41	"	W4-2L	36" X 36"	---	---	9.00	---	---	1	---	1	1	
42	"	J4-1	24" X 36"	6.00	---	---	---	---	1	---	1	1	SEE PLAN SHEET
	PAGE SUBTOTALS			269.29	0.00	107.50	21	8	14	0	33	41	

ERECTION & REMOVAL OF PERMANENT SIGNING, TYPE II

SIGN NO.	LOCATION	SIGN CODE	W X H	637.2210 SIGNS TYPE II REFLECTIVE TYPE H S.F.	637.2215 SIGNS TYPE II REFL. TYPE H FOLDING S.F.	637.2230 SIGNS TYPE II REFLECTIVE TYPE F S.F.	634.0614 POSTS WOOD 4x6x14 EACH	634.0616 POSTS WOOD 4x6x16 EACH	634.0618 POSTS WOOD 4x6x18 EACH	634.0624 POSTS WOOD 4x6x24 EACH	638.2602 REMOVING SIGNS TYPE II EACH	638.3000 REMOVING SMALL SIGN SUPPORTS EACH	REMARKS
43	STH 310, E. OF IH-43	D1-1	66" X 15"	6.88	---	---	2	---	---	---	1	2	SEE DETAIL SHEET
44	"	R2-1	36" X 48"	12.00	---	---	1	---	---	---	---	---	55 MPH
45	"	J4-1	---	---	---	---	---	---	---	---	1	1	
46	"	J2-2	72" X 84"	42.00	---	---	---	---	2	---	---	---	SEE PLAN SHEET
47	"	J2-3	---	---	---	---	---	---	---	---	1	2	
47A	"	D1-72	102" X 66"	46.75	---	---	---	---	3	---	---	---	SEE DETAIL SHEET
48	"	W6-2	36" X 36"	---	---	9.00	---	---	1	---	1	1	
49	"	R2-1	---	---	---	---	---	---	---	---	1	1	
50	"	R5-1A	42" X 30"	8.75	---	---	---	1	---	---	---	---	PART OF SIGN 49 REMOVAL
51	"	J1-3	108" X 57"	42.75	---	---	---	2	---	---	1	2	SEE PLAN SHEET
52	"	W6-3	36" X 36"	---	---	9.00	---	1	---	---	1	1	
53	"	R5-1	36" X 36"	9.00	---	---	---	---	---	---	---	---	MOUNT TO BACK OF SIGN 52, PART OF SIGN 52 REMOVAL
54	"	R4-7	36" X 48"	12.00	---	---	---	1	---	---	1	1	
55	"	D4-5	36" X 48"	12.00	---	---	---	1	---	---	1	1	
56	WAGON WHEEL RD	R1-1	30" X 30"	5.18	---	---	---	1	---	---	1	1	
57	"	R1-1	30" X 30"	5.18	---	---	---	1	---	---	1	1	
58	STH 310, E. OF WAGON WHEEL RD	D4-5	36" X 48"	12.00	---	---	---	1	---	---	1	1	
59	"	J4-1	---	---	---	---	---	---	---	---	1	1	
60	"	W14-3	36" X 36"	---	---	9.00	---	1	---	---	1	1	
61	"	W6-1	36" X 36"	---	---	9.00	---	1	---	---	1	1	
62	"	W14-3	36" X 36"	---	---	9.00	---	1	---	---	1	1	
63	USH 10, W. OF IH-43	R3-2	36" X 36"	9.00	---	---	---	1	---	---	1	1	
64	"	R5-1	---	---	---	---	---	---	---	---	---	---	PART OF SIGN 63 REMOVAL
65	"	R11-54F	48" X 30"	---	10.00	---	---	1	---	---	---	---	
66	"	R5-1	36" X 36"	9.00	---	---	---	---	---	---	---	---	MOUNT TO BACK OF SIGN 65
67	"	J3-2	---	---	---	---	---	---	---	---	1	1	
68	"	R11-54F	---	---	---	---	---	---	---	---	---	---	PART OF SIGN 67 REMOVAL
69	"	R5-57	36" X 36"	9.00	---	---	---	1	---	---	1	1	
70	IH-43 SB OFF RAMP	R1-1	36" X 36"	7.46	---	---	---	1	---	---	1	1	
71	"	R5-1	36" X 36"	9.00	---	---	1	---	---	---	1	1	
72	"	R6-2R	---	---	---	---	---	---	---	---	---	---	PART OF SIGN 71 REMOVAL
73	"	R1-1	---	---	---	---	---	---	---	---	1	1	
74	"	R6-2L	---	---	---	---	---	---	---	---	---	---	PART OF SIGN 73 REMOVAL
75	"	R6-1R	36" X 12"	3.00	---	---	---	---	---	---	---	---	MOUNT ABOVE SIGN 76
76	"	R1-1	36" X 36"	7.46	---	---	---	---	1	---	---	---	
77	"	R6-3	30" X 24"	5.00	---	---	---	---	---	---	---	---	MOUNT BELOW SIGN 76
78	"	R6-2L	24" X 30"	5.00	---	---	---	---	---	---	---	---	MOUNT TO SIGN POST 76
79	"	R5-1	36" X 36"	9.00	---	---	---	1	---	---	1	1	
80	"	R5-1	36" X 36"	9.00	---	---	---	1	---	---	1	1	
81	"	R3-1	36" X 36"	9.00	---	---	---	---	---	---	---	---	MOUNT TO BACK OF SIGN 81
82	"	R5-1A	42" X 30"	8.75	---	---	1	---	---	---	1	1	
83	USH 10/STH 310, BETWEEN IH-43 RAMPS	J3-1	24" X 57"	9.50	---	---	---	1	---	---	1	1	
	PAGE SUBTOTALS			323.66	10.00	45.00	5	19	7	0	26	29	

ERECTION & REMOVAL OF PERMANENT SIGNING, TYPE II

SIGN NO.	LOCATION	SIGN CODE	W X H	637.2210 SIGNS TYPE II REFLECTIVE TYPE H S.F.	637.2215 SIGNS TYPE II REFL. TYPE H FOLDING S.F.	637.2230 SIGNS TYPE II REFLECTIVE TYPE F S.F.	634.0614 POSTS WOOD 4x6x14 EACH	634.0616 POSTS WOOD 4x6x16 EACH	634.0618 POSTS WOOD 4x6x18 EACH	634.0624 POSTS WOOD 4x6x24 EACH	638.2602 REMOVING SIGNS TYPE II EACH	638.3000 REMOVING SMALL SIGN SUPPORTS EACH	REMARKS
84	USH 10/STH 310, BETWEEN IH-43 RAMPS	R6-2L	36" X 48"	12.00	---	---	---	---	1	---	---	---	
85	"	R11-54F	48" X 30"	---	10.00	---	---	---	---	---	---	---	MOUNT BELOW SIGN 84, PART OF SIGN 84 REMOVAL
85A	"	D1-71	114" X 90"	71.25	---	---	---	---	---	4	---	---	SEE DETAIL SHEET
85B	"	D1-70	96" X 48"	32.00	---	---	---	---	---	---	---	---	MOUNT TO BACK OF SIGN 201, SEE DETAIL SHEET
86	"	R4-7	36" X 48"	12.00	---	---	---	1	---	---	1	1	
87	"	J2-2	72" X 84"	42.00	---	---	---	---	2	---	1	1	SEE PLAN SHEET
88	"	J2-2	72" X 84"	42.00	---	---	---	---	2	---	---	---	SEE PLAN SHEET
89	"	D1-1	78" X 15"	8.13	---	---	---	2	---	---	---	---	SEE DETAIL SHEET
90	"	D1-1	---	---	---	---	---	---	---	---	1	1	
91	"	R3-20L	36" X 54"	13.50	---	---	---	1	---	---	1	1	
92	"	R5-1A	42" X 30"	8.75	---	---	1	---	---	---	1	1	
93	"	D1-1	72" X 24"	12.00	---	---	---	2	---	---	---	---	SEE DETAIL SHEET
94	"	D1-1	---	---	---	---	---	---	---	---	1	1	
95	"	R3-20L	36" X 54"	13.50	---	---	---	1	---	---	1	1	
96	"	J2-3	108" X 84"	63.00	---	---	---	---	2	---	---	---	SEE PLAN SHEET
97	"	J2-3	108" X 84"	63.00	---	---	---	---	2	---	1	2	SEE PLAN SHEET
98	"	R3-1	36" X 36"	9.00	---	---	---	1	---	---	1	1	
99	"	R5-1A	36" X 36"	9.00	---	---	---	---	---	---	---	---	MOUNT TO BACK OF SIGN 98, PART OF SIGN 98 REMOVAL
100	"	R5-1A	36" X 36"	9.00	---	---	---	1	---	---	1	1	
101	"	J3-1	24" X 57"	9.50	---	---	---	1	---	---	1	1	
102	"	R4-7	36" X 48"	12.00	---	---	---	1	---	---	1	1	
103	"	R6-2L	36" X 48"	12.00	---	---	---	---	1	---	1	1	
104	"	R11-54F	48" X 30"		10.00	---	---	---	---	---	---	---	MOUNT BELOW SIGN 103, PART OF SIGN 103 REMOVAL
104A	"	D1-70	96" X 48"	32.00	---	---	---	---	---	---	---	---	MOUNT TO BACK OF SIGN 204, SEE DETAIL SHEET
104B	"	D1-71	114" X 90"	71.25	---	---	---	---	---	4	---	---	SEE DETAIL SHEET
105	IH-43 NB ON RAMP	R5-57	36" X 36"	9.00	---	---	---	1	---	---	1	1	
106	IH-43 NB OFF RAMP	R6-2L	24" X 30"	5.00	---	---	---	---	---	---	---	---	MOUNT TO POST 110
107	"	R1-1	---	---	---	---	---	---	---	---	1	1	
108	"	R6-2L	---	---	---	---	---	---	---	---	---	---	PART OF SIGN 107 REMOVAL
109	"	R6-1R	36" X 12"	3.00	---	---	---	---	---	---	---	---	MOUNT ABOVE SIGN 110
110	"	R1-1	36" X 36"	7.46	---	---	---	---	1	---	---	---	
111	"	R6-3	30" X 24"	5.00	---	---	---	---	---	---	---	---	MOUNT BELOW SIGN 110
112	"	R5-1	36" X 36"	9.00	---	---	---	1	---	---	1	1	
113	"	R6-2R	---	---	---	---	---	---	---	---	---	---	PART OF SIGN 112 REMOVAL
114	"	R1-1	36" X 36"	7.46	---	---	---	1	---	---	1	1	
115	STH 310, E. OF IH-43	J4-1	36" X 54"	13.50	---	---	---	1	---	---	---	---	
116	"	W4-2L	---	---	---	---	---	---	---	---	1	1	
117	"	W4-2L	36" X 36"	---	---	9.00	---	1	---	---	---	---	
118	"	R5-1	36" X 36"	9.00	---	---	---	1	---	---	---	---	
119	"	J3-2	---	---	---	---	---	---	---	---	1	1	
120	"	R11-54F	48" X 30"		10.00	---	---	---	---	---	---	---	MOUNT TO BACK OF SIGN 120, PART OF SIGN 119 REMOVAL
121	"	R3-2	36" X 36"	9.00	---	---	---	1	---	---	1	1	
122	"	R5-1	---	---	---	---	---	---	---	---	---	---	PART OF SIGN 121 REMOVAL
123	"	J1-1	24" X 39"	6.50	---	---	---	1	---	---	1	1	SEE PLAN SHEET
124	"	W2-6	30" X 30"	---	---	6.25	---	1	---	---	1	1	
125	"	W2-2P	---	---	---	---	---	---	---	---	---	---	PART OF SIGN 124 REMOVAL
126	"	W13-1	18" X 18"	---	---	2.25	---	---	---	---	---	---	15 MPH, MOUNT BELOW SIGN 124, PART OF SIGN 124 REMOVAL
	PAGE SUBTOTALS			640.80	30.00	17.50	1	20	11	8	22	23	
	PROJECT TOTALS			**1233.74**	**40.00**	**170.00**	**27.00**	**47.00**	**32.00**	**8.00**	**81.00**	**93.00**	

BEGIN PROJECT (1500-67-60)
STA.168+72.00
(MATCH EXISTING)
(BUTT JOINT REQUIRED)

MATCH LINE STA. 175+00

N

Mid: 173+59.04

175

CURVE 1

170+00

PCC: 166+91.00

Mid: 163+73.96

PC: 160+56.92

165+00

160+00

155+00

150+00

EP: 151+57.37

BP: 151+65.72

BRANCH RIVER

USH 10

EXISTING JOINT

5

5

MATCH LINE 175+00

MILLING / PAVING LIMITS

MATCH LINE 80'A'+00

EP: 199+90.84

80

195+00

190+00

185+00

180+00

+00

CURVE 1

USH 10

BP: 76+46.28

PT: 180+27.08

SEE CONSTRUCTION DETAIL FOR
SUPERELEVATION DATA

PROJECT NO: 1500-67-60	HWY: USH 10	COUNTY: MANITOWOC	PLAN SHEETS	SHEET 24	E

MATCH LINE 80A+00

VILLAGE ROAD

PCC: 86+75.47

PC: 83+04.97

85+00

CURVE 2

90+00

Mid: 84+90.22

Mid: 90+23.74

PT: 93+72.01

95+00

USH 10

100+00

BP: 100+00.00

EP: 100+00.00

STONE ROAD

PI: 103+13.38

105

MATCH LINE 105A+00

N

SEE CONSTRUCTION DETAIL FOR SUPERELEVATION DATA

MILLING / PAVING LIMITS

MATCH LINE 105A+00

PI: 105+50.67

BP: 109+76.58

PC: 109+80.49

110+00

115+00

PC: 114+04.30

Mid: 114+30.22

Mid: 117+35.35

PT: 118+79.95

120+00

PT: 120+66.39

WESTBOUND

EASTBOUND

USH 10

125+00

PI: 125+42.70

PI: 125+59.23

NW RAMP

SW RAMP

IH 43

BRIDGE

130+00

NE RAMP

SE RAMP

PI: 131+77.70

PI: 131+94.23

135

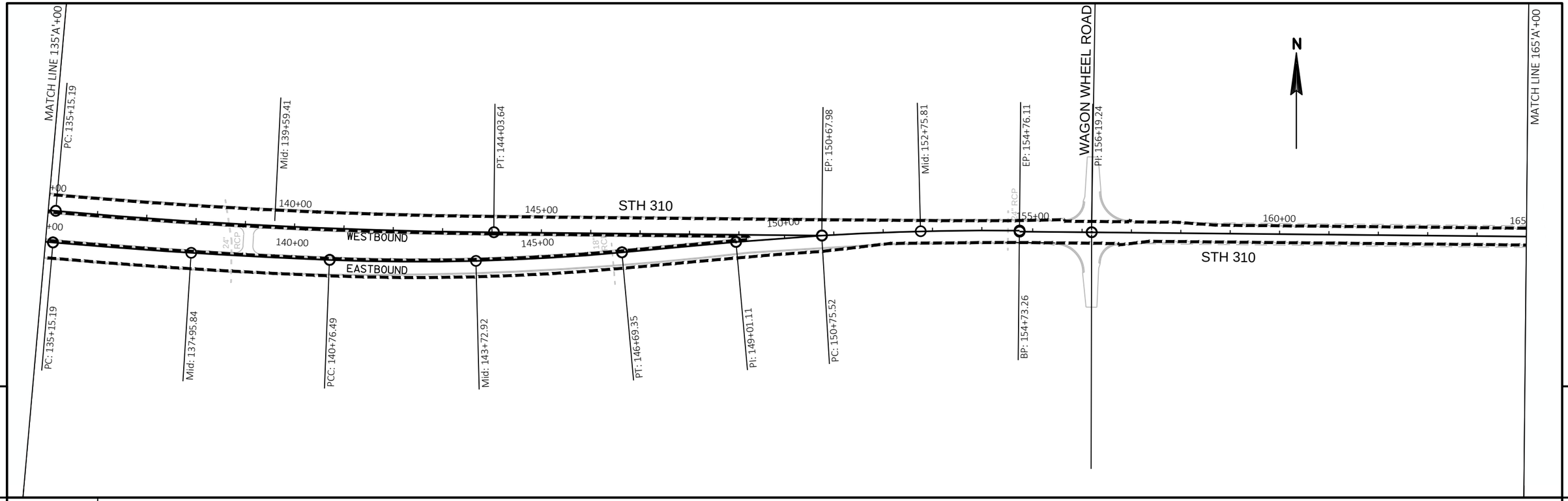
MATCH LINE 135A+00

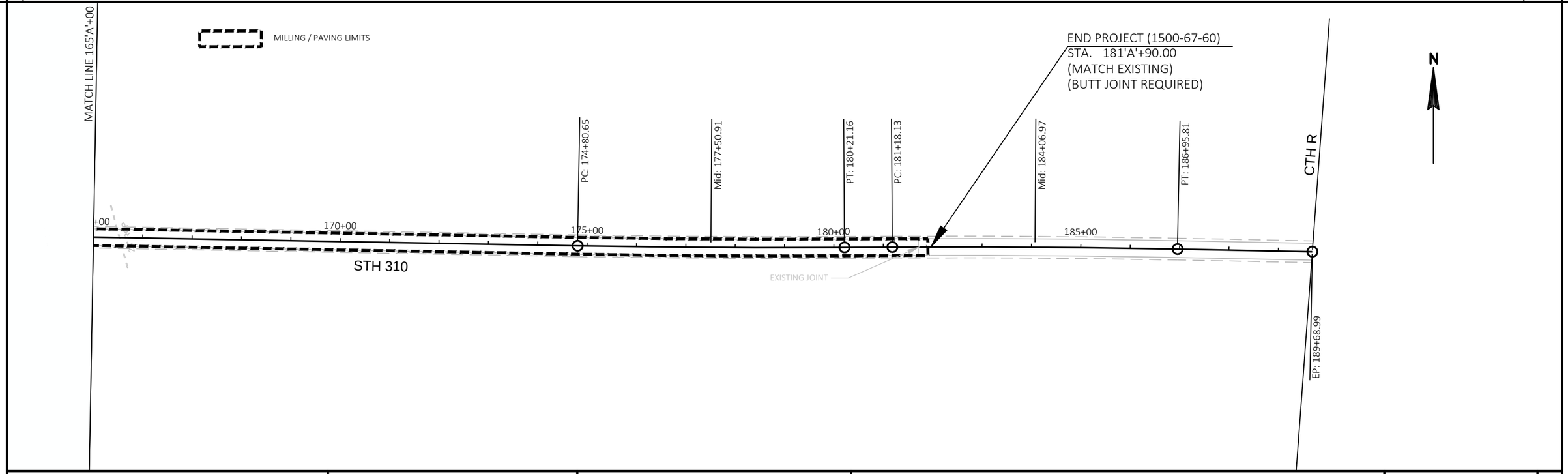
PROJECT NO: 1500-67-60	HWY: USH 10	COUNTY: MANITOWOC	PLAN SHEETS	SHEET 25	E

FILE NAME : P:\PROJECTS_CURRENT\MANITOWOC\WDOT_NER\USH 10 - 2016\ACAD\SHEETSPLAN\PLANVIEW\050201_PN.DWG
LAYOUT NAME - 050202

PLOT DATE : 2/3/2017 10:07 AM PLOT BY : DEXTER KAETTERHENRY PLOT NAME : PLOT SCALE : ##########

WISDOT/CADDS SHEET 44





PROJECT NO: 1500-67-60	HWY: USH 10	COUNTY: MANITOWOC	PLAN SHEETS	SHEET 26	E

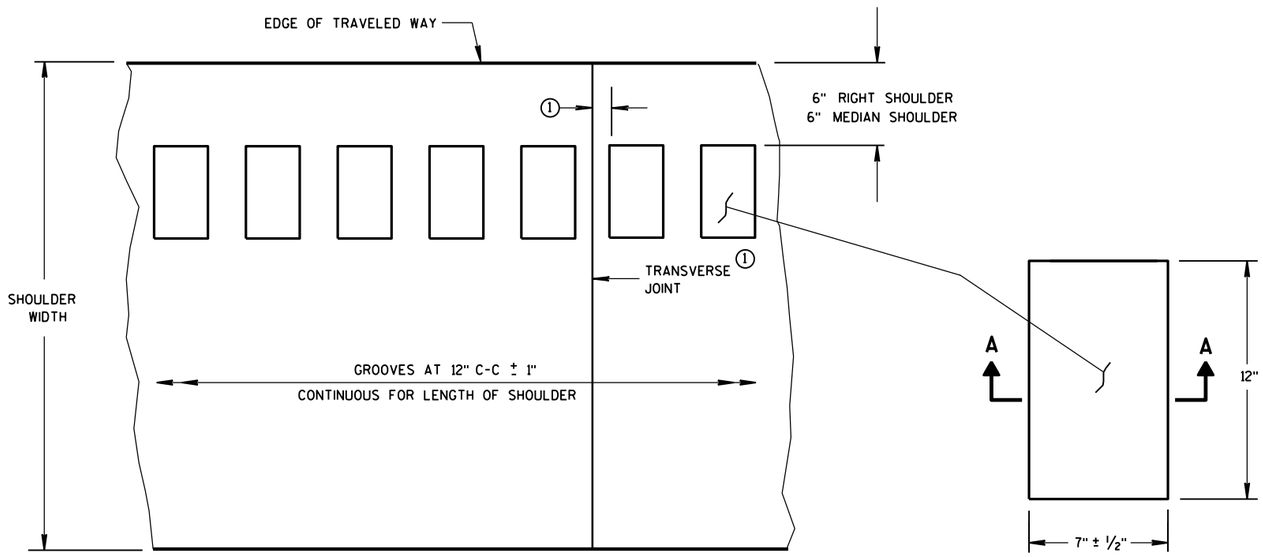
FILE NAME : P:\PROJECTS_CURRENT\MANITOWOC\WDOT_NER\USH 10 - 2016\ACAD\SHEETSPLAN\PLANVIEW\050201_PN.DWG
LAYOUT NAME - 050203

PLOT DATE : 2/3/2017 10:07 AM PLOT BY : DEXTER KAETTERHENRY PLOT NAME : PLOT SCALE : ##########

WISDOT/CADDS SHEET 44

Standard Detail Drawing List

13A05-05A	SHOULDER RUMBLE STRIP, MILLING
13A05-05B	SHOULDER RUMBLE STRIP, MILLING
13A10-01A	2-LANE RURAL SHOULDER RUMBLE STRIP, MILLING
13A10-01B	2-LANE RURAL SHOULDER RUMBLE STRIP, MILLING
13A10-01C	2-LANE RURAL SHOULDER RUMBLE STRIP, MILLING
13A10-01D	2-LANE RURAL SHOULDER RUMBLE STRIP, MILLING
13A11-02A	2-LANE RURAL CENTER LINE RUMBLE STRIP, MILLING
13A11-02B	2-LANE RURAL CENTER LINE RUMBLE STRIP, MILLING
15C04-03	TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 M.P.H. OR GREATER TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC
15C08-17A	LONGITUDINAL MARKING (MAINLINE)
15C08-17B	PAVEMENT MARKING (TURN LANES)
15C12-05	TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION
15C19-04A	MOVING PAVEMENT MARKING OPERATION TWO-LANE TWO-WAY ROADWAY
15C19-04C	MOVING PAVEMENT MARKING OPERATION MULTI-LANE DIVIDED ROADWAY
15C21-07	SIGNING AND MARKING FOR TWO LANE TO FOUR LANE DIVIDED TRANSITIONS
15C35-01A	PAVEMENT MARKING (INTERSECTIONS)
15D20-04	TRAFFIC CONTROL, SINGLE LANE CLOSURE, NON-FREEWAY/EXPRESSWAY
15D21-04	TRAFFIC CONTROL, INTERSECTION WITHIN SINGLE LANE CLOSURE
15D27-03	TRAFFIC CONTROL, SHOULDER CLOSURE ON DIVIDED ROADWAY, SPEEDS GREATER THAN 40 MPH
15D28-03	TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY
15D38-01A	TEMPORARY TRAFFIC CONTROL FIXED MESSAGE SIGNS
15D38-01B	ATTACHMENT OF SIGNS TO POSTS



PLAN VIEW
SHOULDER WITH GROOVES

PLAN VIEW
(SINGLE GROOVE)

PLACEMENT DETAIL FOR MILLED RUMBLE STRIP

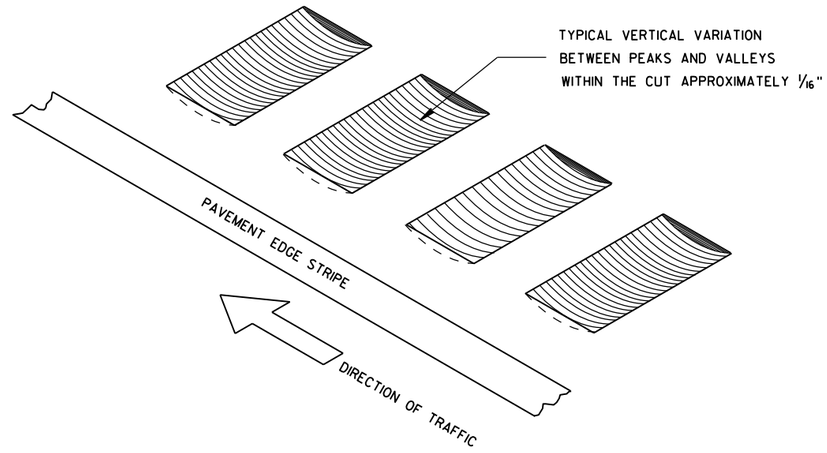
GENERAL NOTES

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

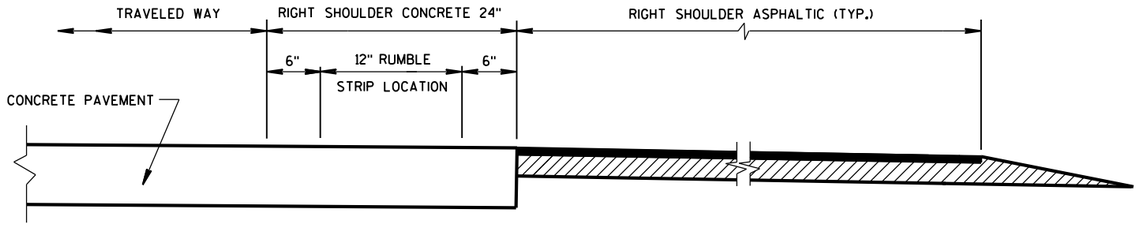
RUMBLE STRIPS ON EXPRESSWAYS

DO NOT INSTALL RUMBLE STRIPS ACROSS SIDE ROAD INTERSECTIONS, COMMERCIAL DRIVEWAYS, PRIVATE DRIVEWAYS OR ADJACENT TO RIGHT TURN LANES, LEFT TURN LANES, TURN LANE TAPERS, BRIDGE DECKS, BRIDGE APPROACHES, OR 100 FEET IN ADVANCE OF RAILROAD CROSSING. THE ATTACHED STANDARD DETAIL DRAWING SHOWS THE LOCATION OF THE RUMBLE STRIPS AT INTERCHANGE AREAS.

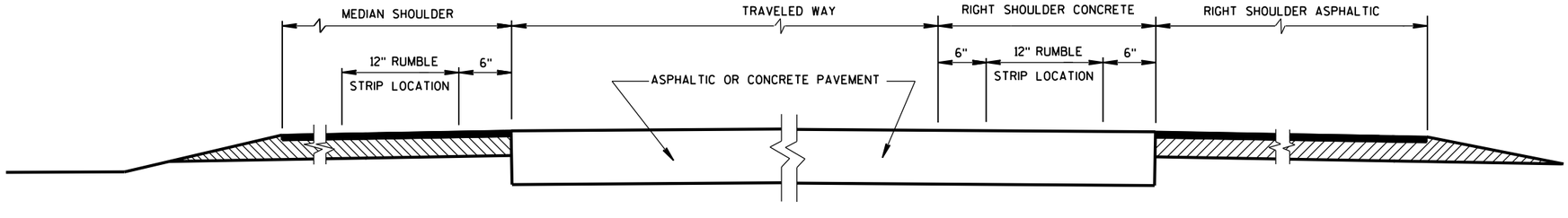
(1) CONCRETE PAVEMENT - RUMBLE STRIPS SHALL BE A MINIMUM OF 6" AWAY FROM TRANSVERSE JOINTS.



ISOMETRIC



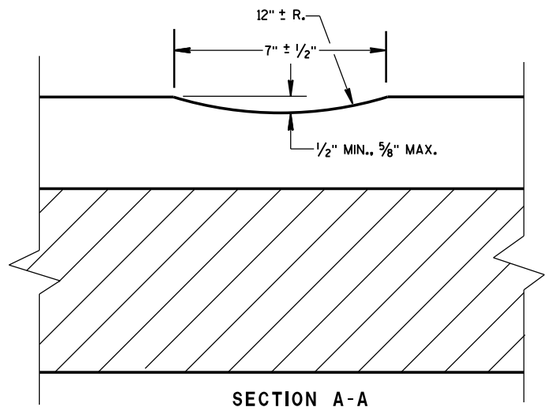
SECTION VIEW
CONCRETE PAVEMENT EXTENDS INTO RIGHT SHOULDER)



SECTION VIEW

TYPICAL LOCATIONS OF SHOULDER RUMBLE STRIPS IN RURAL DIVIDED HIGHWAYS

(ONE ROADWAY IS SHOWN)



SECTION A-A

SHOULDER RUMBLE STRIP, MILLING

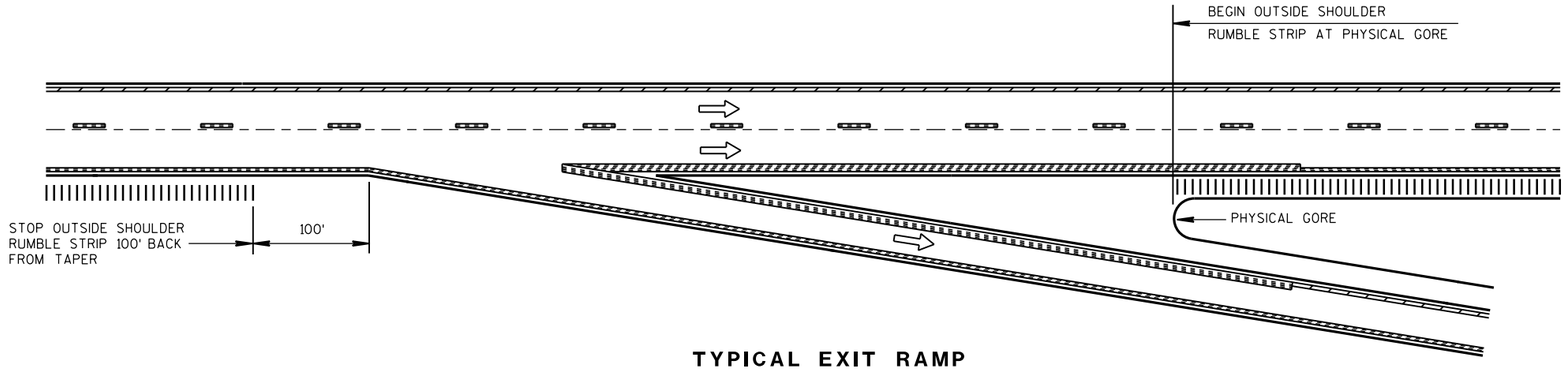
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

6

S.D.D. 13 A 5-5a

6

S.D.D. 13 A 5-5a



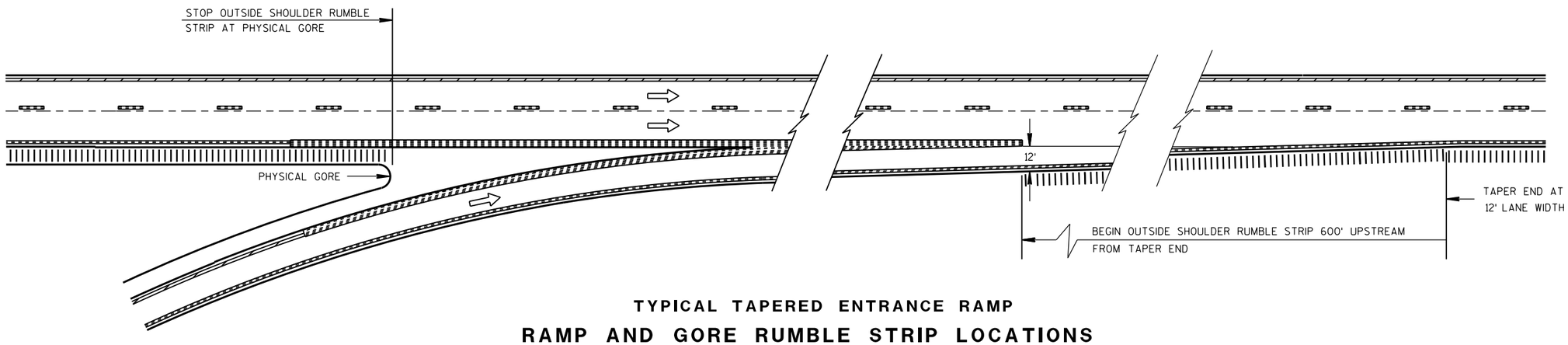
TYPICAL EXIT RAMP

NOTES:

NO RUMBLE STRIP ON EXIT, DIRECTIONAL, OR ENTRANCE RAMPS, EXCEPT NEAR THE ENTRANCE TAPER END AND ALONG THE PARALLEL RAMP AREA AS SHOWN.

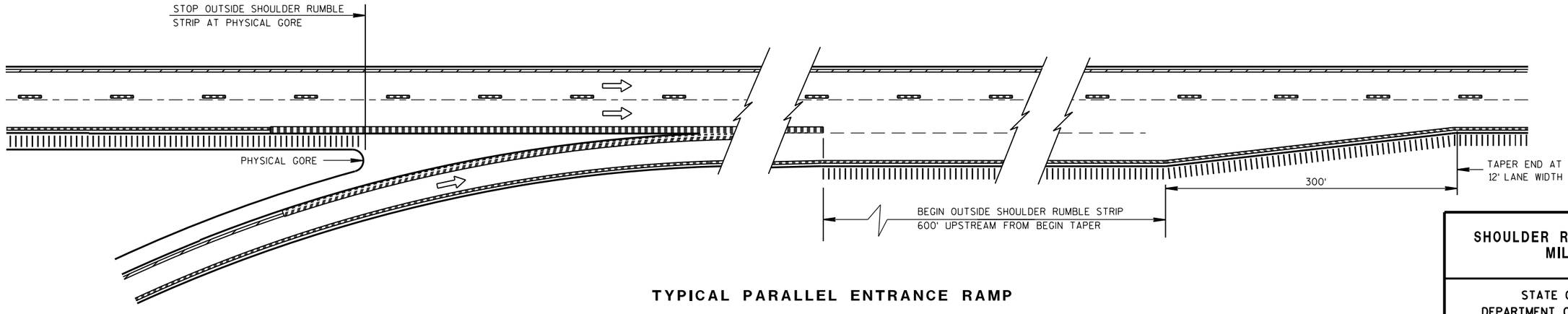
PAVEMENT MARKING DETAILS AND SPECIFICATIONS ARE PROVIDED ELSEWHERE IN THE CONTRACT.

NOTE:
ARROW SYMBOL (⇨)
SHOWS DIRECTION OF TRAVEL



TYPICAL TAPERED ENTRANCE RAMP

RAMP AND GORE RUMBLE STRIP LOCATIONS



TYPICAL PARALLEL ENTRANCE RAMP

RAMP AND GORE RUMBLE STRIP LOCATIONS

SHOULDER RUMBLE STRIP, MILLING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

12/17/2012
DATE

/S/ Jerry H. Zoga
ROADWAY STANDARDS ENGINEER

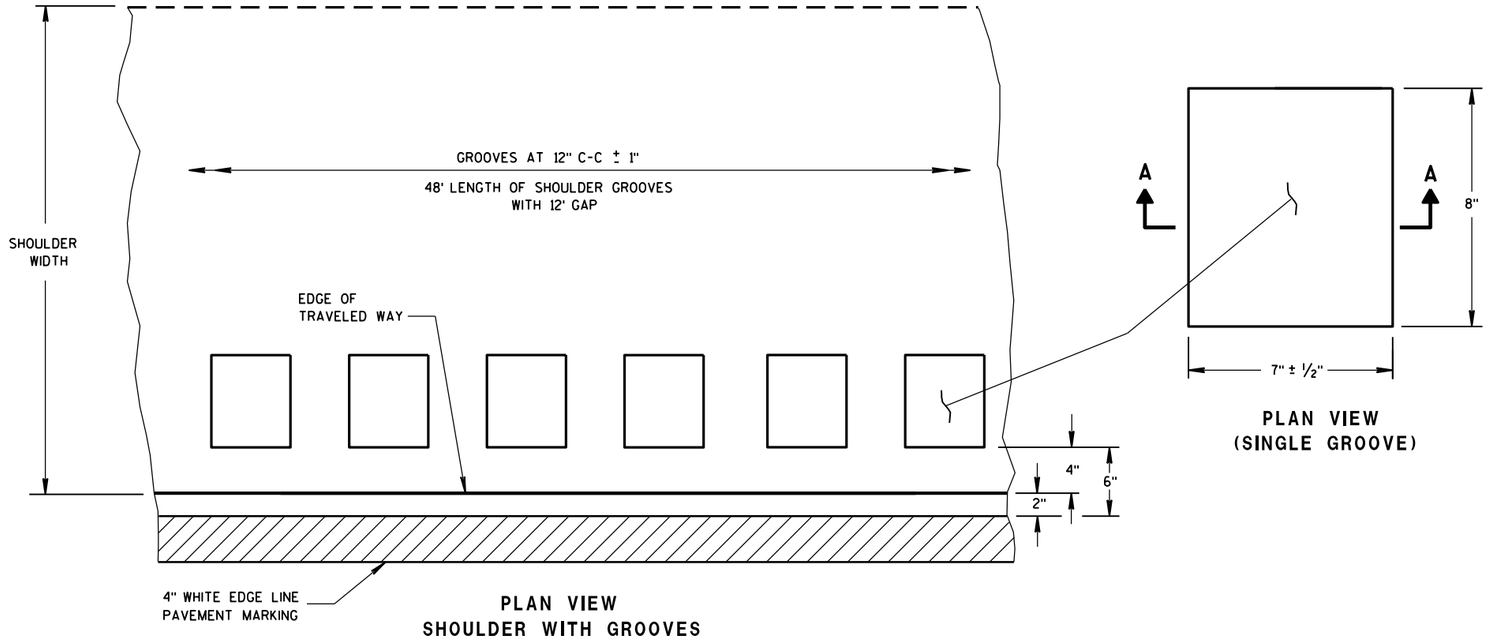
FHWA

6

S.D.D. 13 A 5-5b

6

S.D.D. 13 A 5-5b



PLAN VIEW
SHOULDER WITH GROOVES

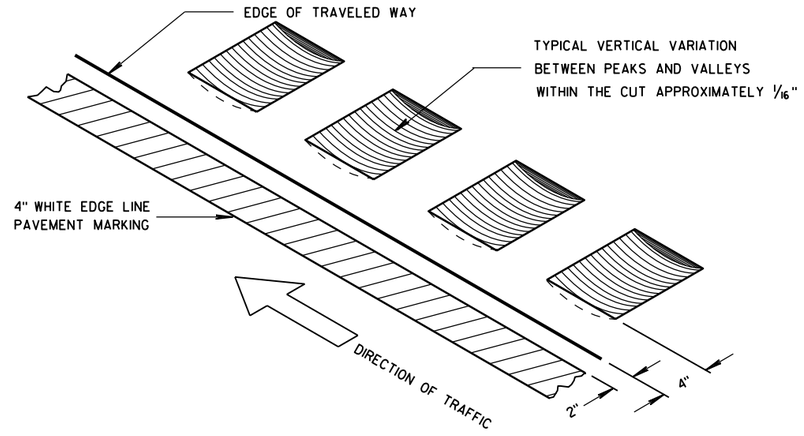
PLAN VIEW
(SINGLE GROOVE)

GENERAL NOTES

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

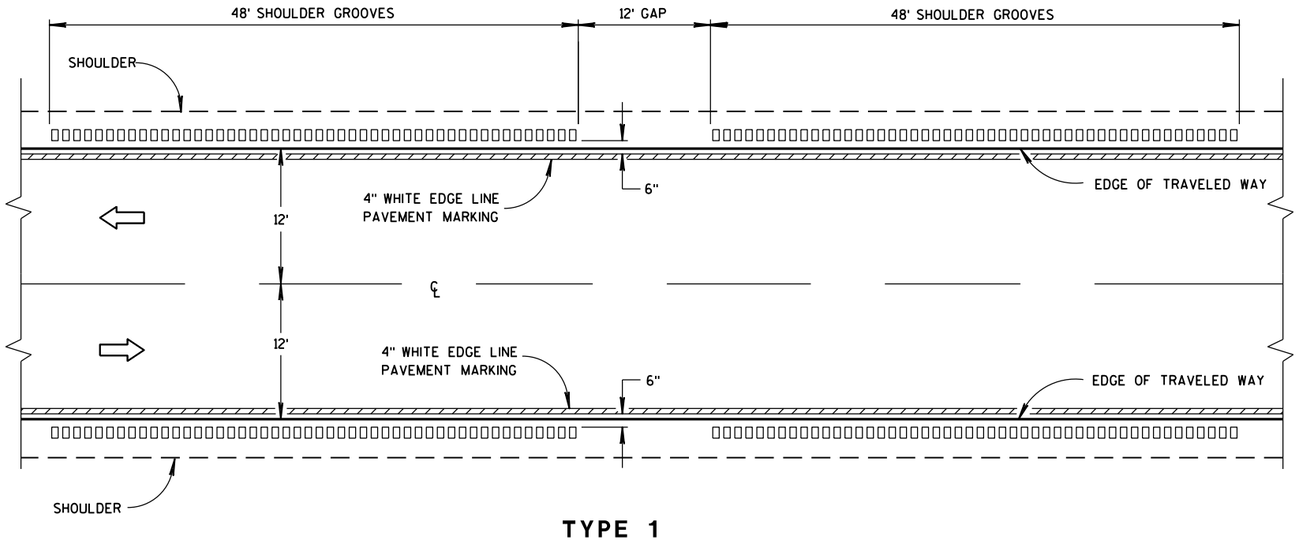
DO NOT MILL SHOULDER GROOVES THROUGH ANY INTERSECTION, MARKED CROSSWALK, NON-MOTORIZED PATH CROSSING, OR SNOWMOBILE CROSSING.

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

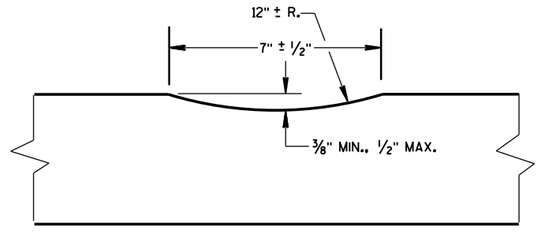


ISOMETRIC

PLACEMENT DETAIL FOR TYPE 1 MILLED RUMBLE STRIP



TYPE 1
2-LANE SHOULDER RUMBLE STRIP



SECTION A-A

2-LANE RURAL
SHOULDER RUMBLE STRIP, MILLING

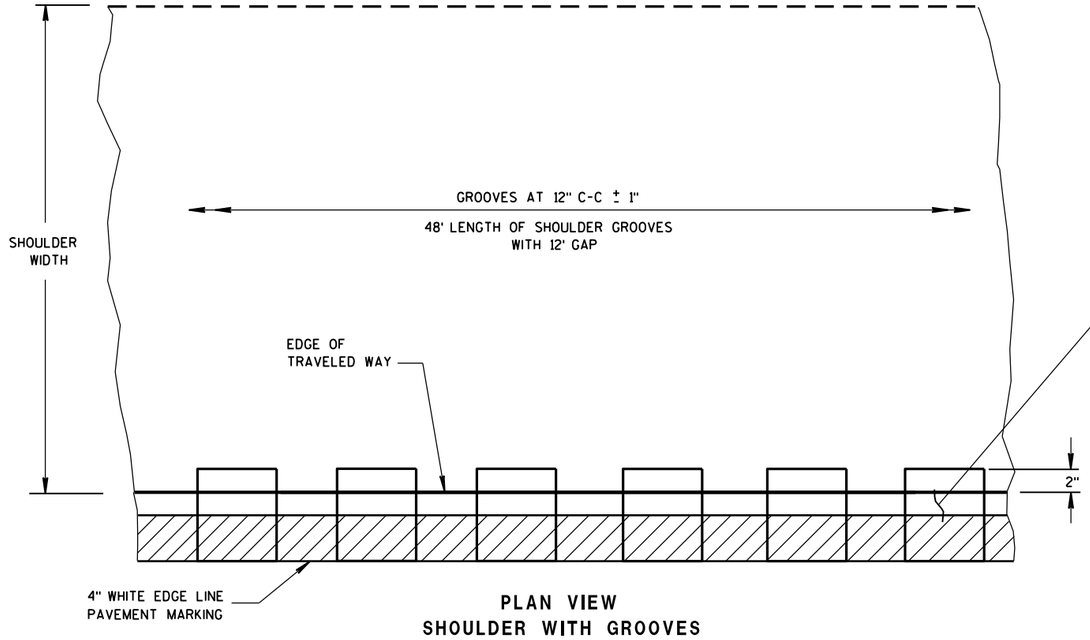
STATE OF WISCONSIN
DEPARTMENT OF TRANSPO

6

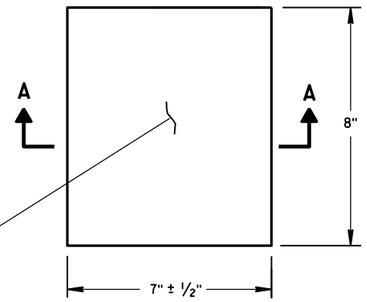
S.D.D. 13 A 10-1a

6

S.D.D. 13 A 10-1a



PLAN VIEW
SHOULDER WITH GROOVES



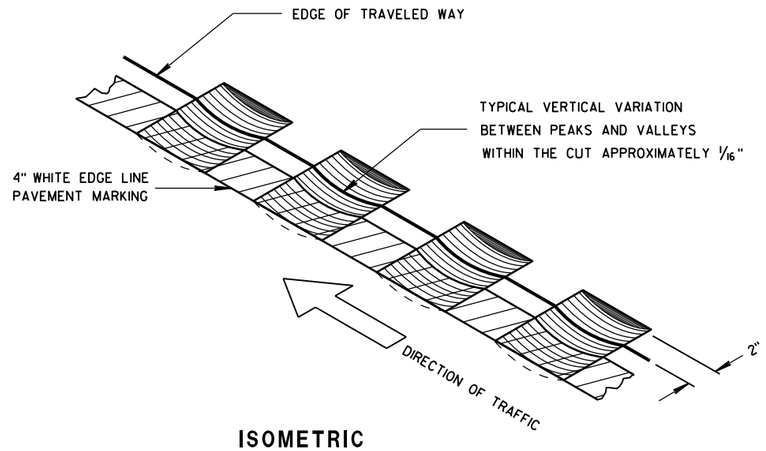
PLAN VIEW
(SINGLE GROOVE)

GENERAL NOTES

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

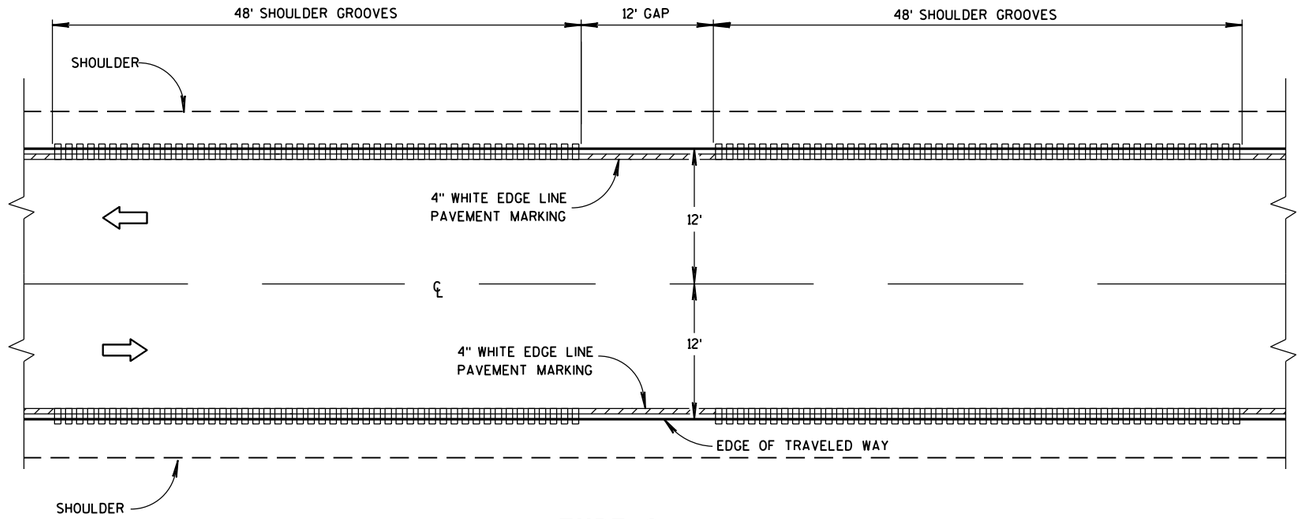
DO NOT MILL SHOULDER GROOVES THROUGH ANY INTERSECTION, MARKED CROSSWALK, NON-MOTORIZED PATH CROSSING, OR SNOWMOBILE CROSSING.

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

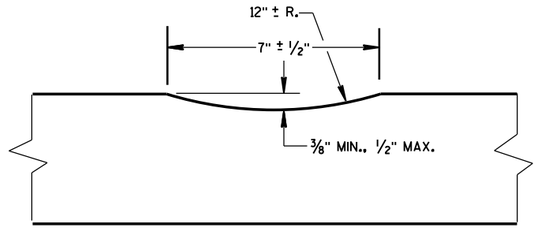


ISOMETRIC

PLACEMENT DETAIL FOR TYPE 2 MILLED RUMBLE STRIP



TYPE 2
2-LANE SHOULDER RUMBLE STRIP



SECTION A-A

2-LANE RURAL
SHOULDER RUMBLE STRIP, MILLING

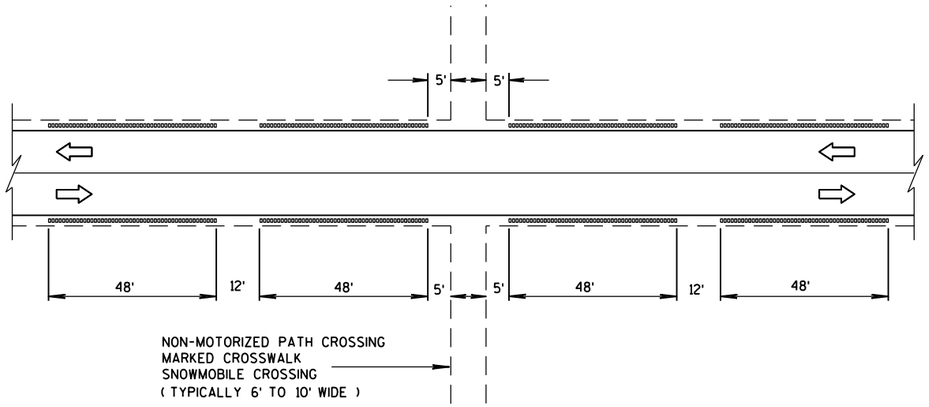
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

6

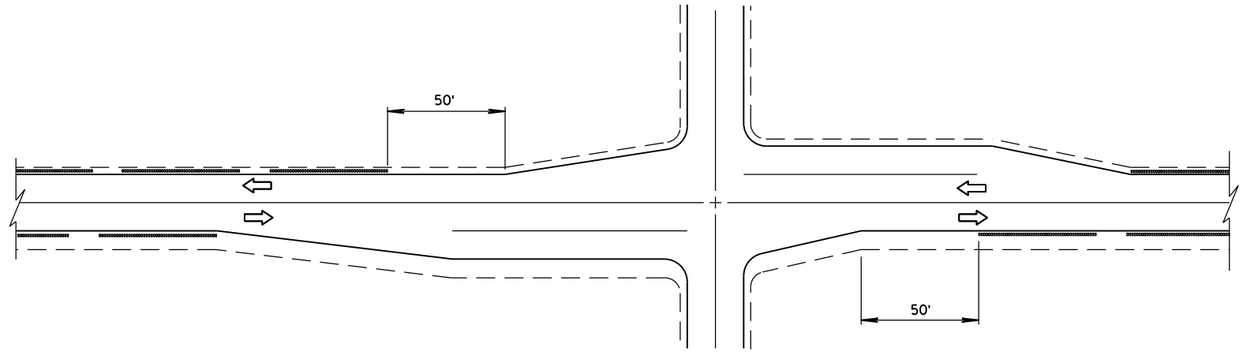
S.D.D. 13 A 10-1b

6

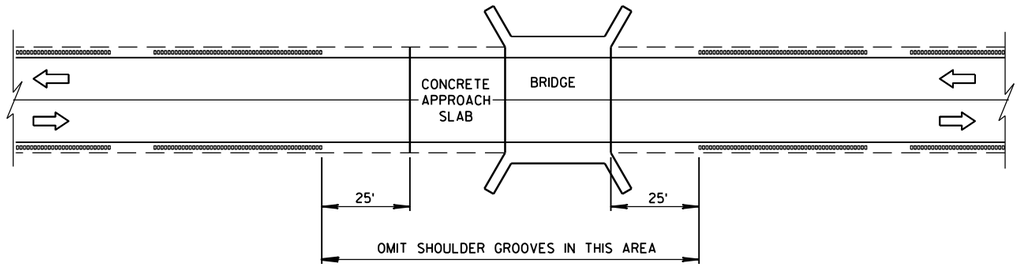
S.D.D. 13 A 10-1b



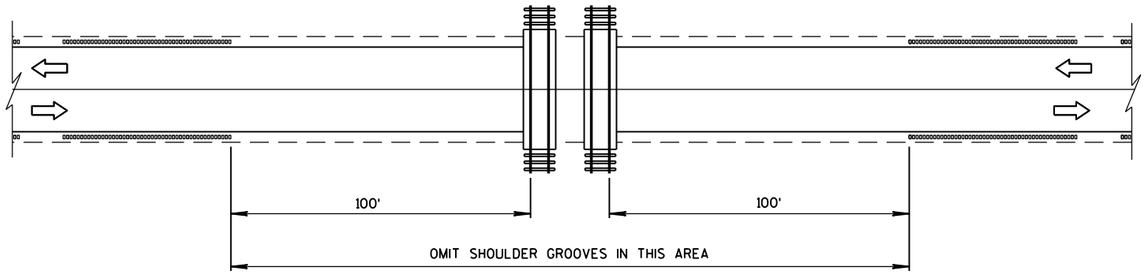
SHOULDER GROOVES AT MISCELLANEOUS CROSSINGS



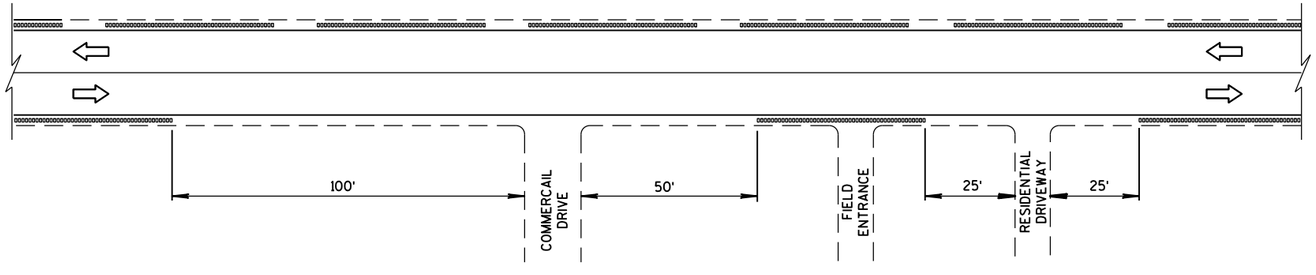
SHOULDER GROOVES AT INTERSECTIONS



SHOULDER GROOVES AT BRIDGES



SHOULDER GROOVES AT RAILROADS

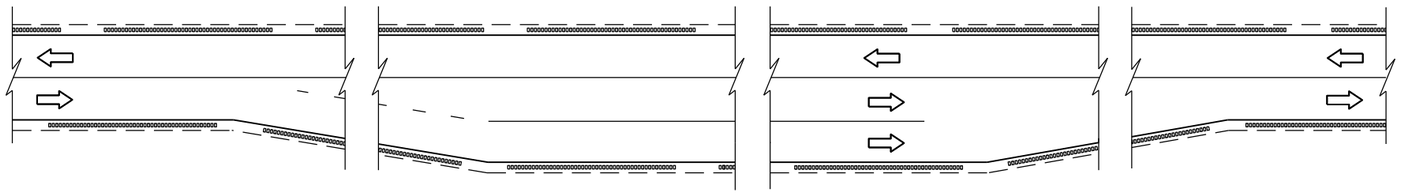


SHOULDER GROOVES AT DRIVEWAYS (1)

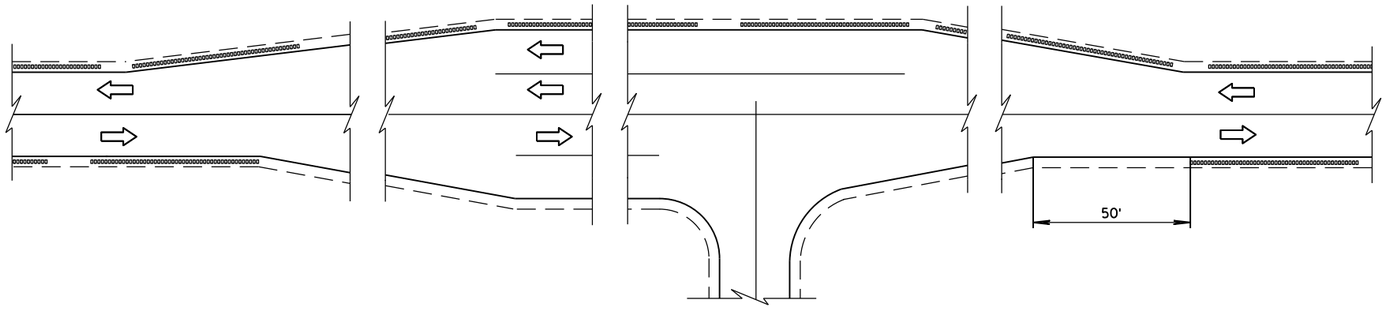
2-LANE RURAL
SHOULDER RUMBLE STRIP, MILLING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

6
S.D.D. 13 A 10-1c



SHOULDER GROOVES AT PASSING AND CLIMBING LANES



SHOULDER GROOVES AT BYPASS LANES

6

6

S.D.D. 13 A 10-1d

S.D.D. 13 A 10-1d

2-LANE RURAL
SHOULDER RUMBLE STRIP, MILLING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

12/17/2012
DATE

/S/ Jerry H. Zogg
ROADWAY STANDARDS DEVELOPMENT ENGINEER

FHWA

GENERAL NOTES

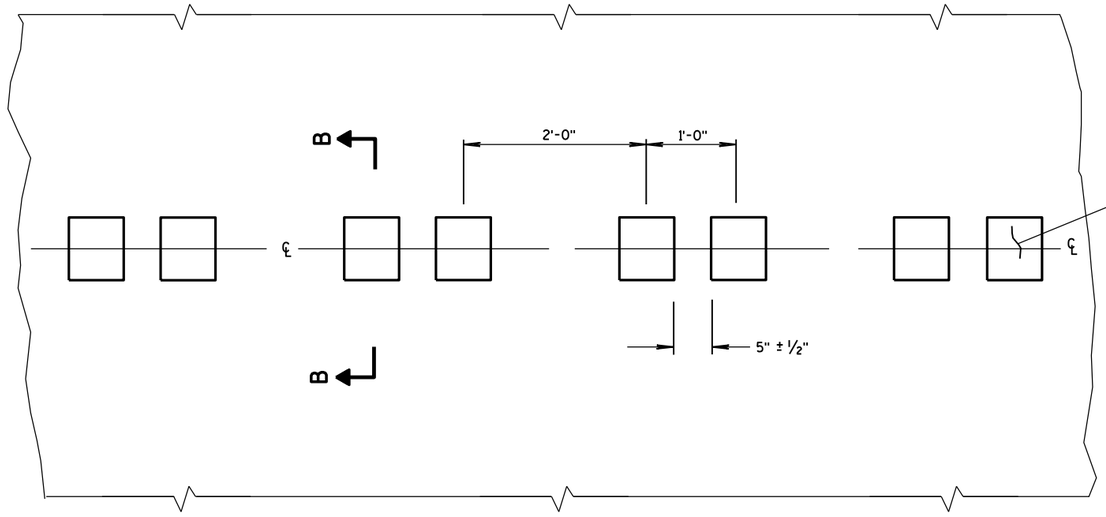
DETAILS OF CONSTRUCTION SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

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

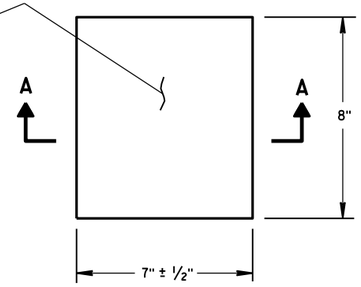
INSTALL PAVEMENT MARKING AFTER THE GROOVES ARE INSTALLED.

SEE SIGNING PLAN FOR SIGN REQUIREMENTS THAT MAY BE NEEDED.

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

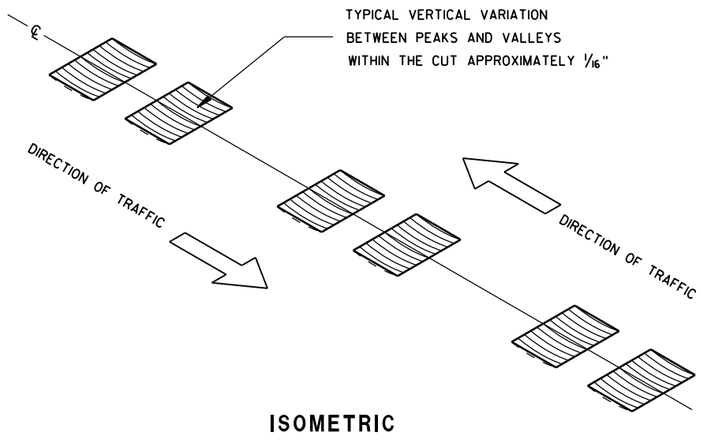


PLAN VIEW
CENTER LINE WITH GROOVES

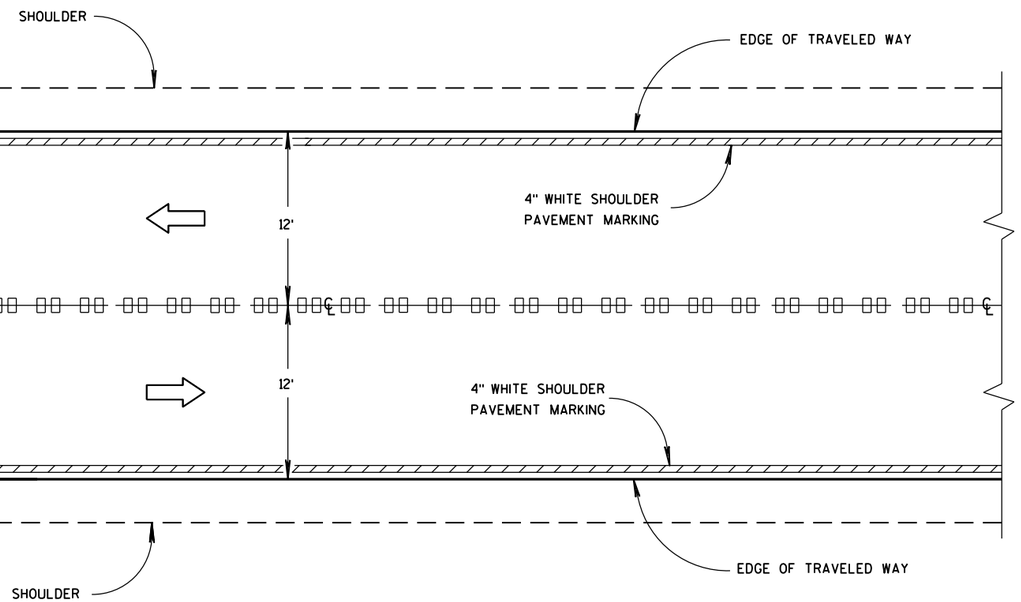


PLAN VIEW
(SINGLE GROOVE)

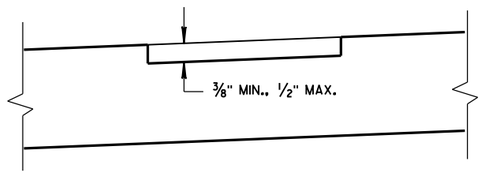
PLACEMENT DETAIL FOR MILLED RUMBLE STRIP



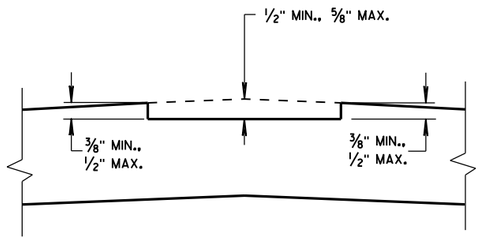
ISOMETRIC



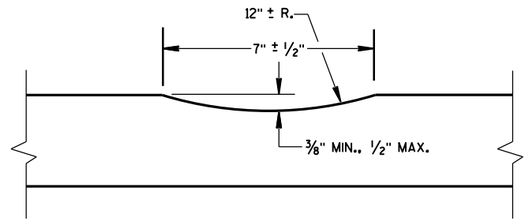
CENTER LINE GROOVES ON TWO-WAY ROADWAYS



SECTION B-B
SUPERELEVATED ROADWAY



SECTION B-B
CROWNED ROADWAY



SECTION A-A

6

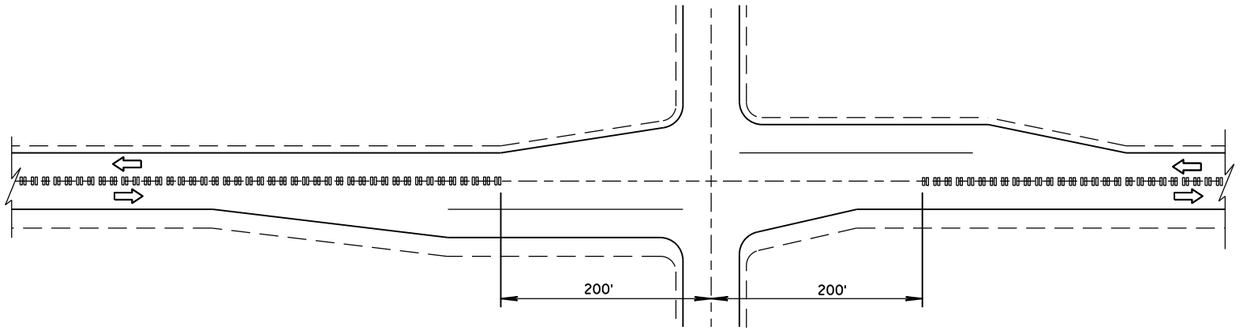
S.D.D. 13 A 11-2a

2-LANE RURAL
CENTER LINE RUMBLE STRIP,
MILLING

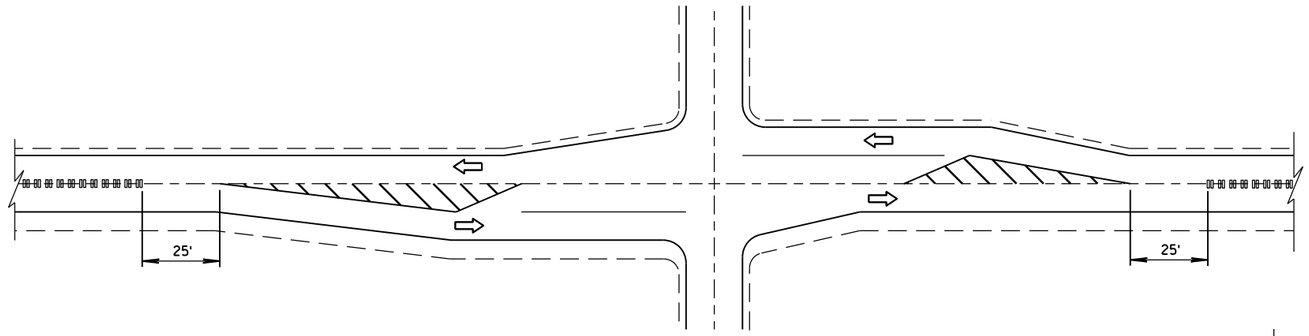
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

6

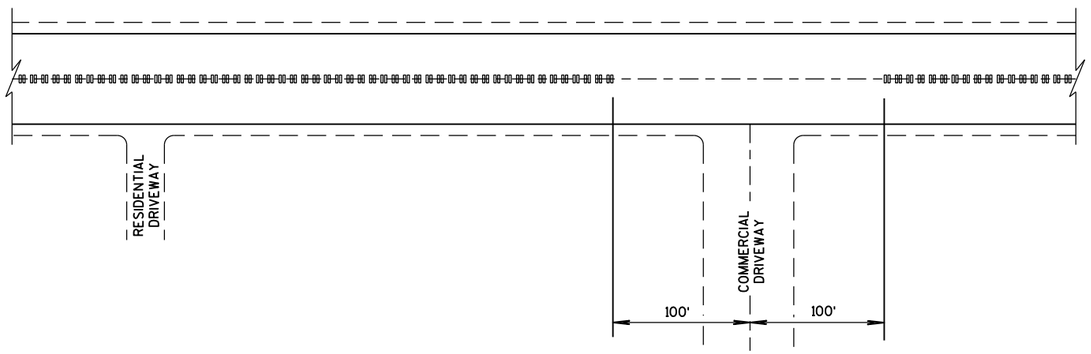
S.D.D. 13 A 11-2a



CENTER LINE GROOVES AT INTERSECTIONS

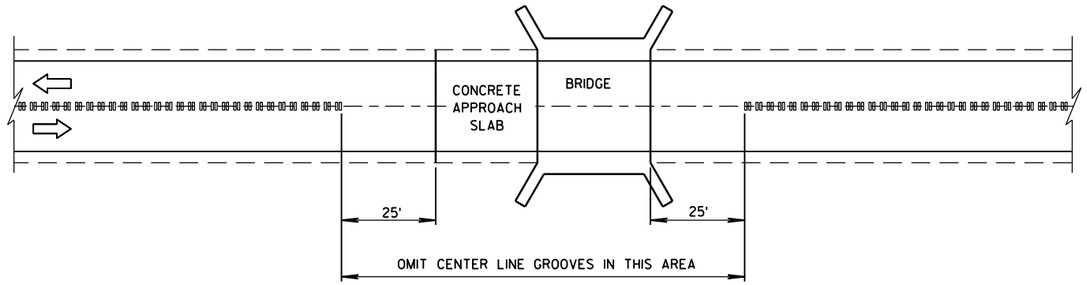


CENTER LINE GROOVES AT INTERSECTIONS
(WITH LEFT TURN LANES)

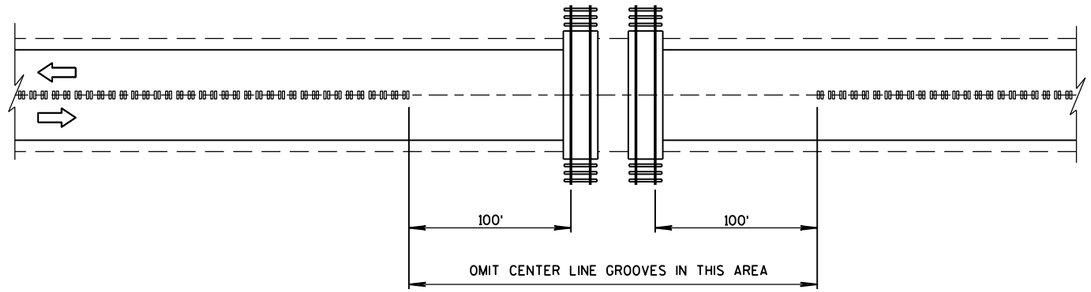


CENTER LINE GROOVES AT DRIVEWAYS (1)

(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 11-2b

6

S.D.D. 13 A 11-2b

2-LANE RURAL
CENTER LINE RUMBLE STRIP, MILLING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

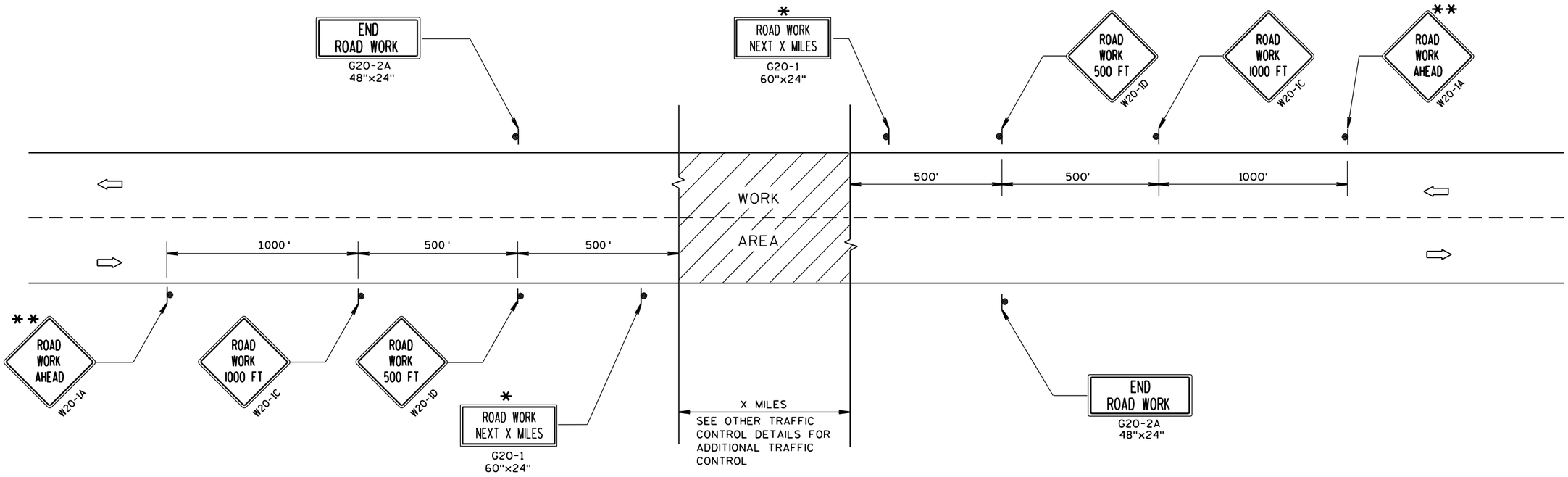
APPROVED

5/15/2013 DATE

/S/ Jerry H. Zoda
ROADWAY STANDARDS DEVELOPMENT ENGINEER

NT

FHWA



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.

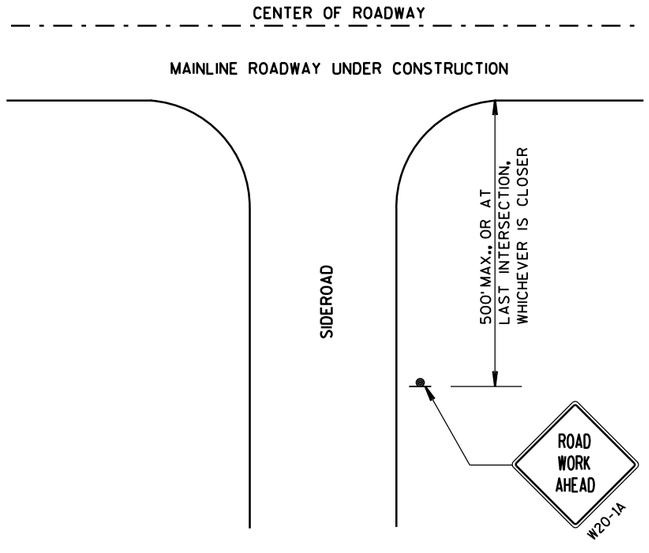
ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED.

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

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

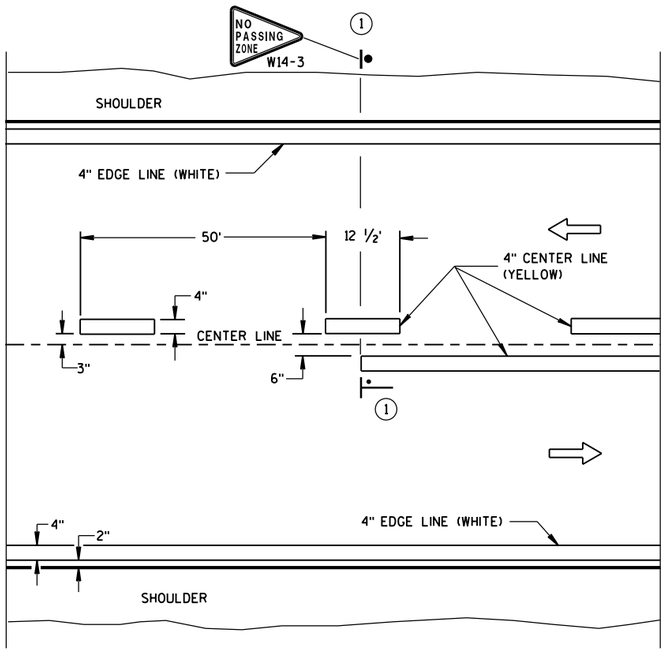
FHWA

6

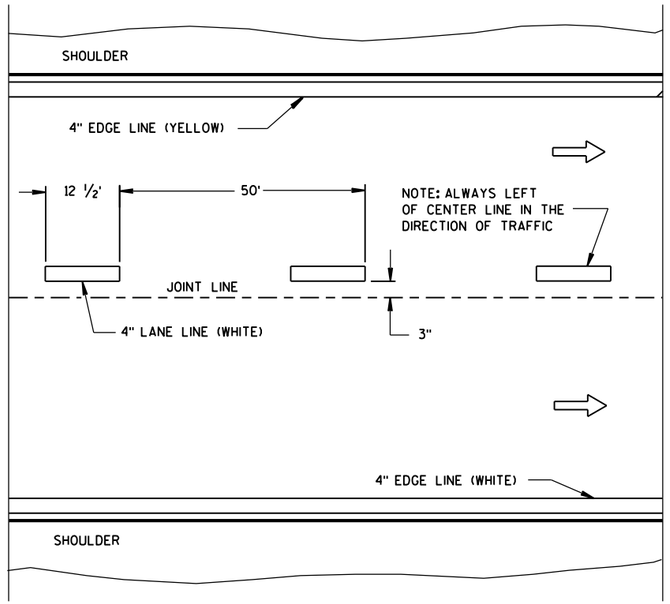
S.D.D. 15 C 4-3

6

S.D.D. 15 C 4-3



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) NO PASSING ZONE W14-3 SIGN SHALL BE LOCATED WITHIN 50 FEET OF THE "T" MARKING.

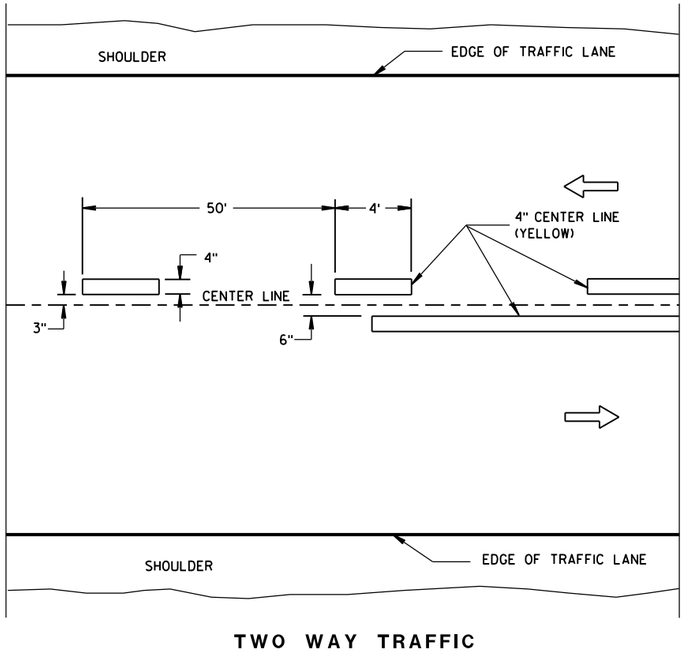
NOTE

ARROW SYMBOL (⇨) SHOWS DIRECTION OF TRAVEL

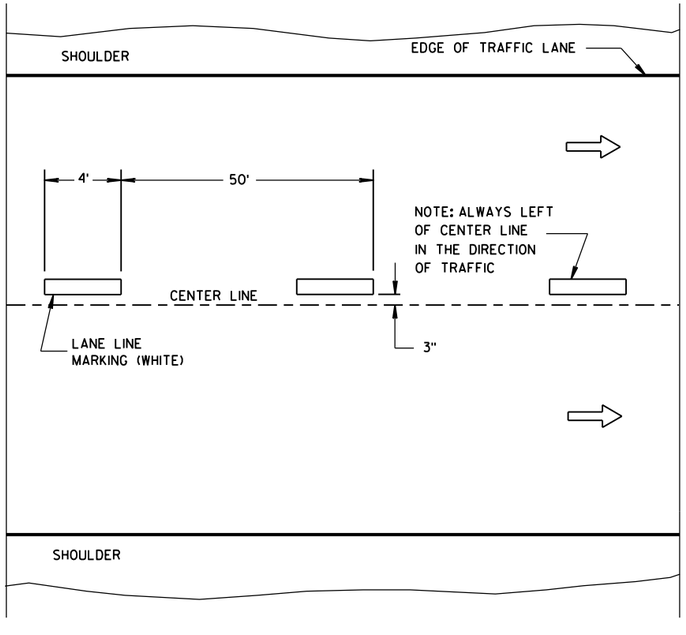
LEGEND

"T" MARKING

POST MOUNTED SIGN



TWO WAY TRAFFIC



ONE WAY TRAFFIC

TEMPORARY PAVEMENT MARKING

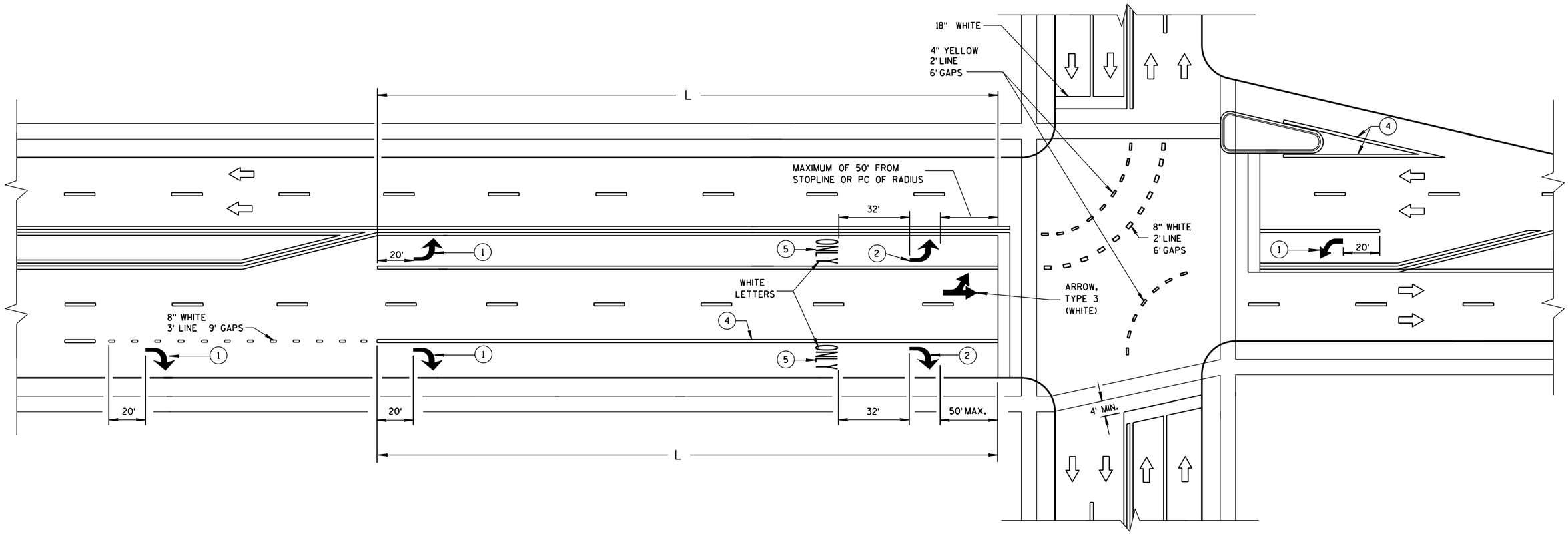
LONGITUDINAL MARKING (MAINLINE)

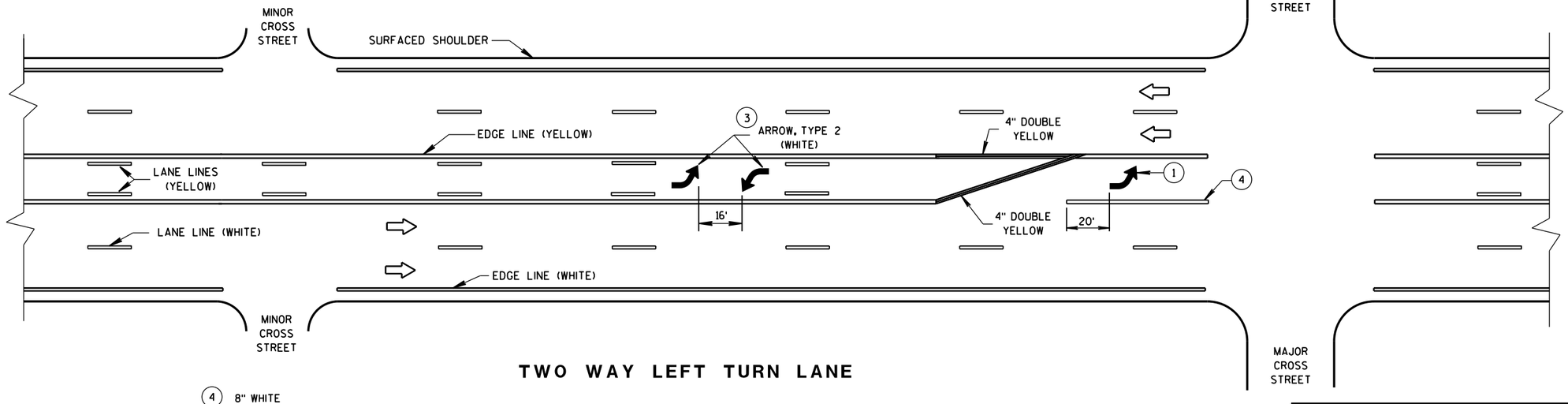
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept., 2016 — DATE
/S/ Matthew R. Rauch — STATE SIGNING AND MARKING ENGINEER
FHWA

6

S.D.D. 15 C 8-17a





TWO WAY LEFT TURN LANE

GENERAL NOTES

(1) REQUIRED ARROW, TYPE 2 (WHITE).

(2) REQUIRED ARROW, TYPE 2 (WHITE) WHEN L IS GREATER THAN 78 FEET AND LESS THAN OR EQUAL TO 166 FEET.

(3) A SET OF ARROWS IS REQUIRED EVERY 400 FEET OR NEAR INTERSECTIONS OR DRIVEWAYS WITH TURNING TRAFFIC.

(4) 8" WHITE

(5) REQUIRED WORD ONLY WHEN L IS GREATER THAN 166 FEET.

NOTE:
ARROW SYMBOL (⇨)
SHOWS DIRECTION OF TRAVEL

L = LENGTH OF TURN BAY

PAVEMENT MARKING (TURN LANES)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPO

6

S.D.D. 15 C 8-17b

LEGEND

SIGN ON PORTABLE OR PERMANENT SUPPORT

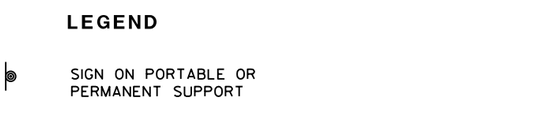
DIRECTION OF TRAFFIC

WORK AREA

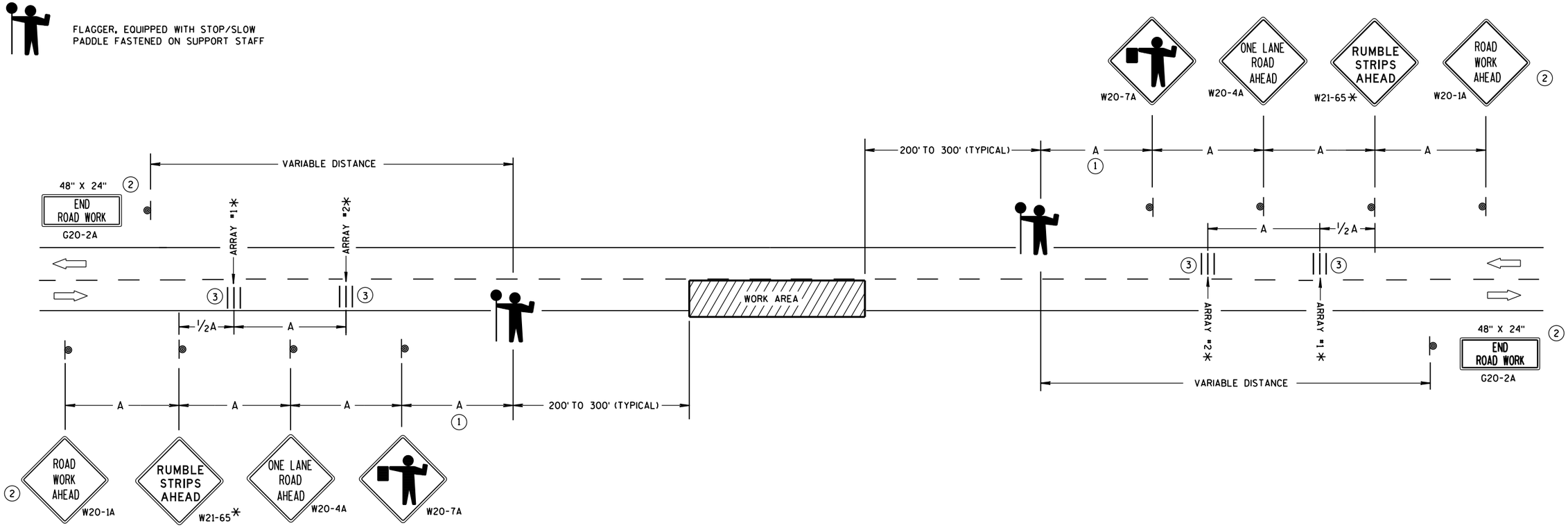
FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF

SIGN AND TEMPORARY RUMBLE STRIP ARRAY SPACING TABLE

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



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

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.

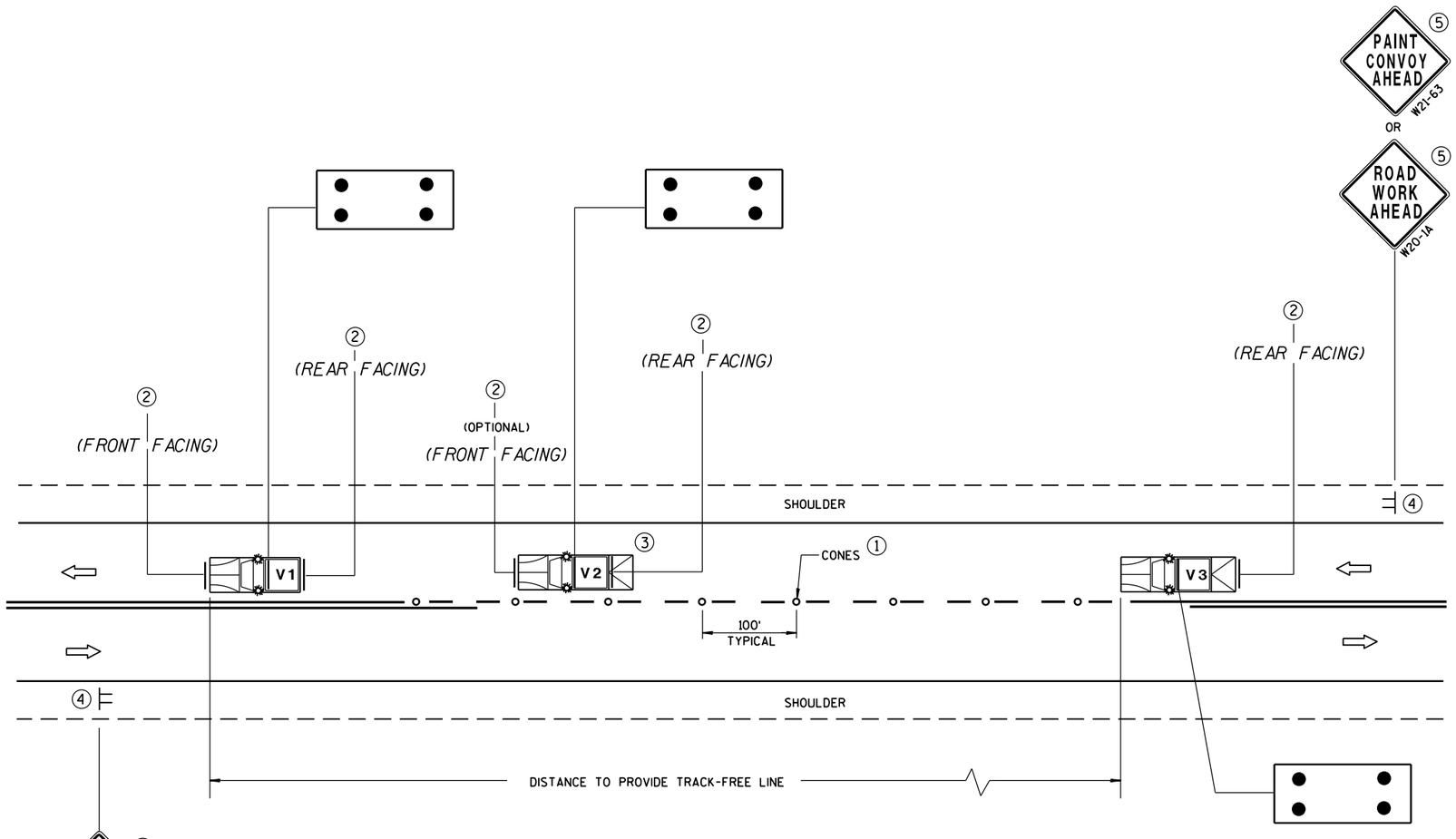
(3) EACH TEMPORARY RUMBLE STRIP ARRAY CONSISTS OF THREE RUMBLE STRIPS SPACED ACCORDING TO MANUFACTURER'S RECOMMENDATION, PLACED TRANSVERSE ACROSS THE LANE AT LOCATIONS SHOWN.

TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
December, 2016 — /S/ Andrew Heldtke
DATE — WORK ZONE ENG
FHWA

6
S.D.D. 15 C 12-5



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)

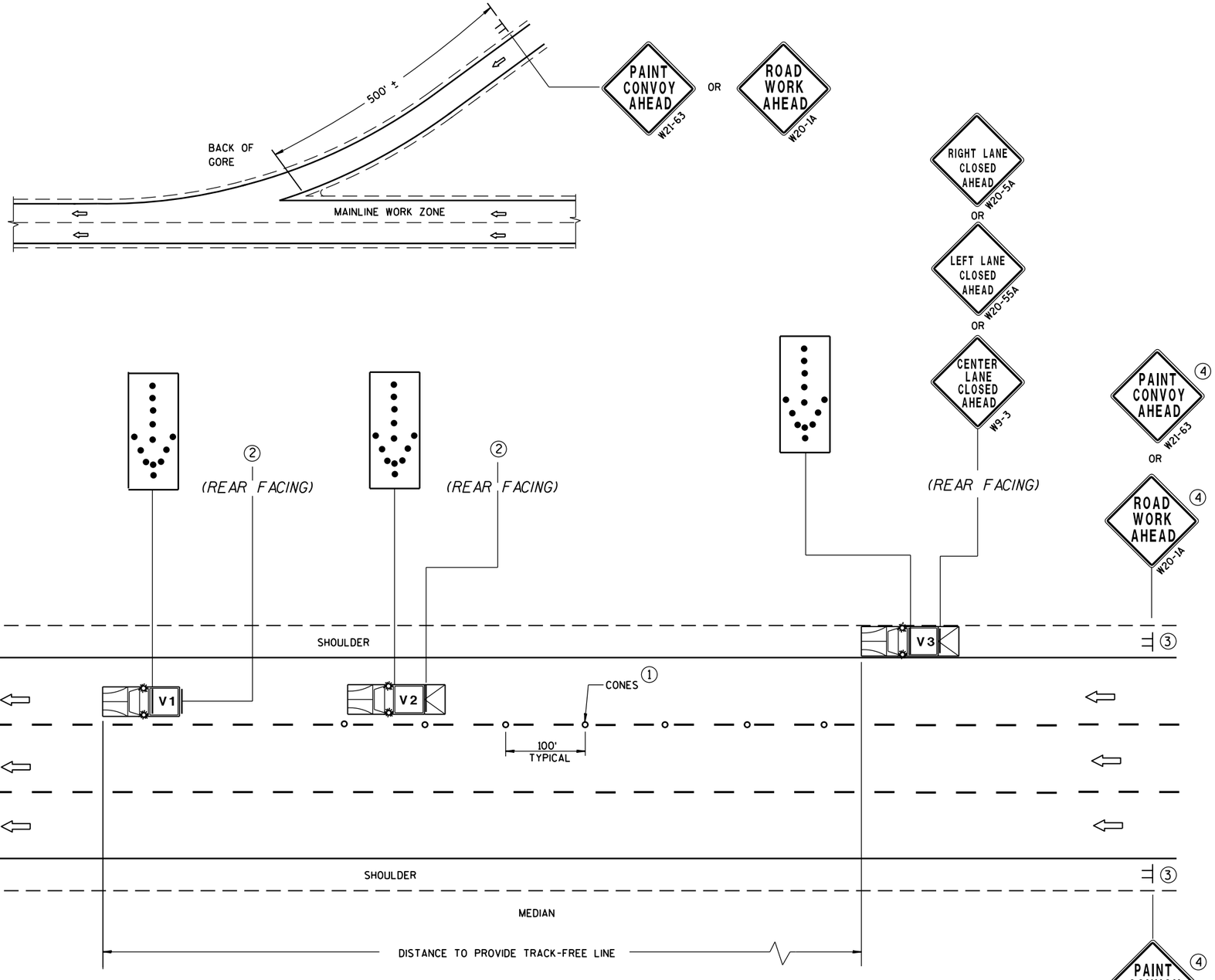
MOVING PAVEMENT MARKING OPERATION TWO-LANE TWO-WAY ROADWAY	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED June 2016 DATE FHWA	/S/ Peter Amakobe Atepe STATEWIDE WORK ZON SAFETY ENGINE

6

S.D.D. 15 C 19-4a

6

S.D.D. 15 C 19-4a



MOVING PAVEMENT MARKING OPERATIONS
MULTI-LANE DIVIDED 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.

ALL VEHICLES SHALL BE EQUIPPED WITH REAR FACING TYPE B OR C FLASHING ARROW PANEL. 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.

WHEN WORK ACTIVITY BLOCKS THE LEFT LANE, REVERSE TRAFFIC CONTROL.

WHEN A RAMP INTERSECTS THE FACILITY ON WHICH THE WORK IS BEING PERFORMED, PROVIDE ADDITIONAL TRAFFIC CONTROLS AS SPECIFIED IN THE CONTRACT OR AS APPROVED BY THE ENGINEER.

USE AN ATTENUATOR ON THE REARMOST VEHICLE THAT BLOCKS ALL OR PART OF THE TRAFFIC LANE.

FOR EDGELINE MARKING OR IF CONES ARE NOT USED, POSITION THE REARMOST SHADOW VEHICLE ON THE SHOULDER AS SHOWN IN THE MUTCD IF THE SHOULDER HAS ADEQUATE WIDTH. USE DOUBLE ARROWS WHEN CONVOY IS IN CENTER LANE ONLY.

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

THIS DRAWING SHALL BE USED FOR EDGELINE OR LANELINE MARKING FOR MULTILANE DIVIDED ROADWAYS.

(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) SIGNS SHALL BE REPEATED AFTER EVERY ON RAMP OR EVERY THREE MILES.

(4) 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 (MERGE)

MOVING PAVEMENT MARKING OPERATION
MULTI-LANE DIVIDED ROADWAY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June 2016 — DATE
/S/ Peter Amakobe Atepe — STATEWIDE WORK ZON SAFETY ENGINI
FHWA

S.D.D. 15 C 19-4c

S.D.D. 15 C 19-4c

GENERAL NOTES

SIGNING AND MARKING IS SHOWN AS TYPICAL PLACEMENT. FIELD CONDITIONS MAY DICTATE CHANGES IN SIGNING AND MARKING PLACEMENT.

A DISTANCE DEPENDENT ON SPEED (SEE TABLE)

(1) WRONG WAY PREVENTION SIGNS ARE DISCUSSED IN T G M 2-15-12

(2) USED ONLY WHEN APPROVED BY REGION TRAFFIC ENGINEER.

SYMBOLS

* SIGNS MAY BE OMITTED IF SPACE DOES NOT PERMIT

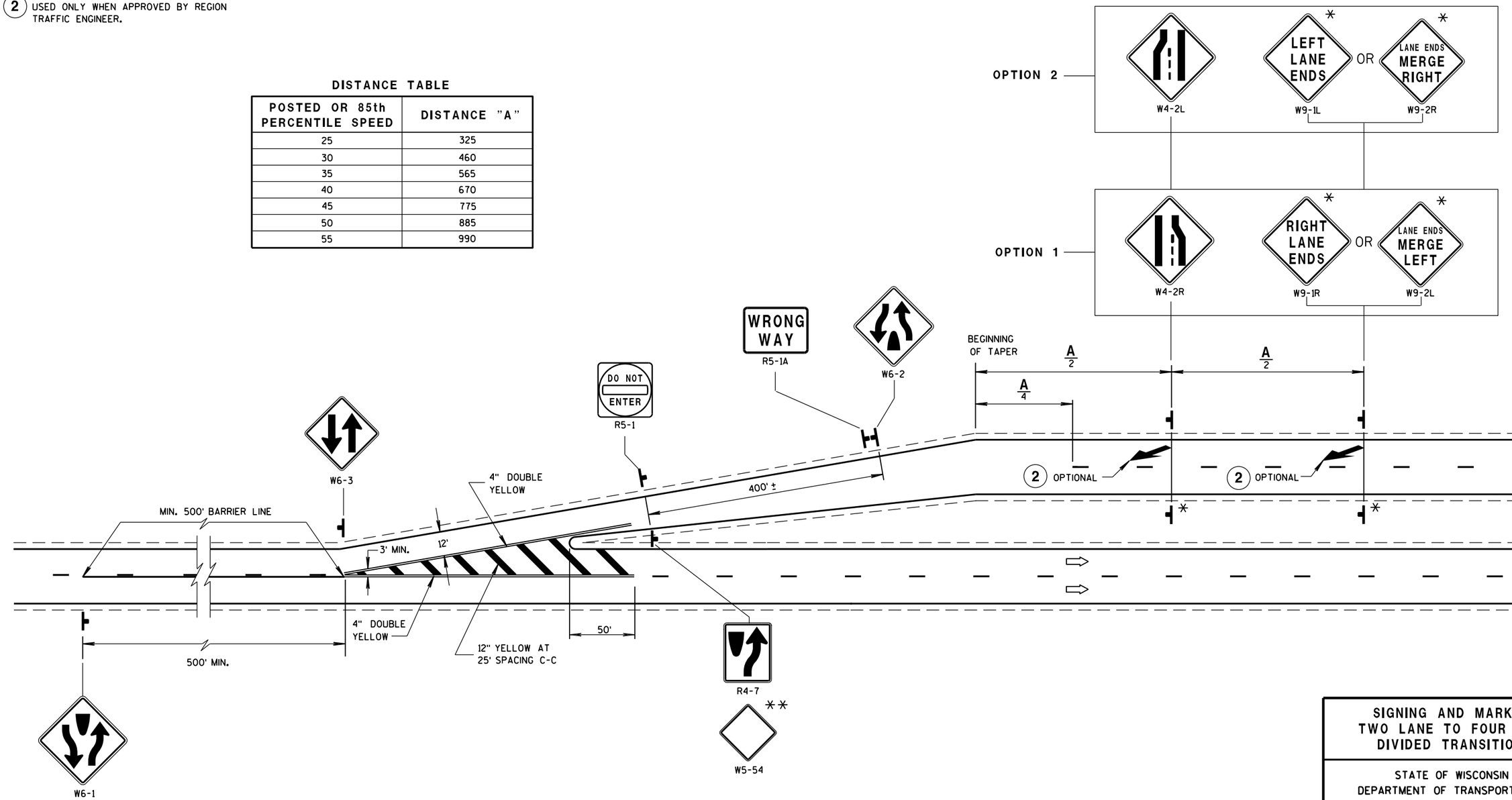
** IF POSTED SPEED 45 MPH OR GREATER, PLACE W5-54 SIGN UNDER R4-7 SIGN. MOUNT W5-54 SIGN AT 4' MOUNTING HEIGHT (TOP OF ROADWAY TO BOTTOM OF SIGN)

POST MOUNTED SIGN

DIRECTION OF TRAFFIC FLOW

DISTANCE TABLE

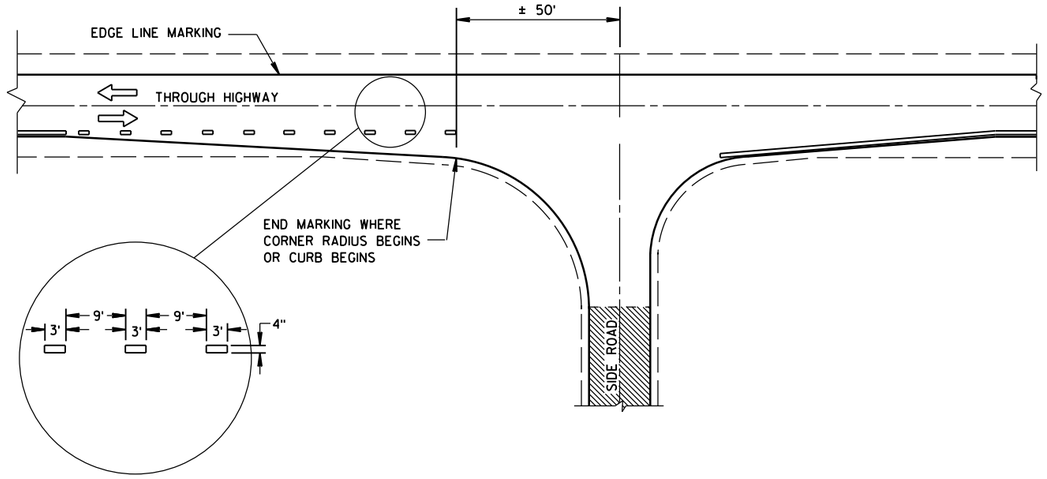
POSTED OR 85th PERCENTILE SPEED	DISTANCE "A"
25	325
30	460
35	565
40	670
45	775
50	885
55	990



SIGNING AND MARKING TWO LANE TO FOUR LANE DIVIDED TRANSITIONS	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED	
4-18-2016 DATE	/S/ Matthew R. Rauch STATE SIGNING AND MARI IEER
FHWA	

6

S.D.D. 15 C 21-7



MINOR INTERSECTION WITHOUT CURBS

GENERAL NOTES

EDGE LINES SHALL BE OMITTED THROUGH INTERSECTIONS. EDGE LINES SHALL BE CONTINUED THROUGH DRIVEWAYS.

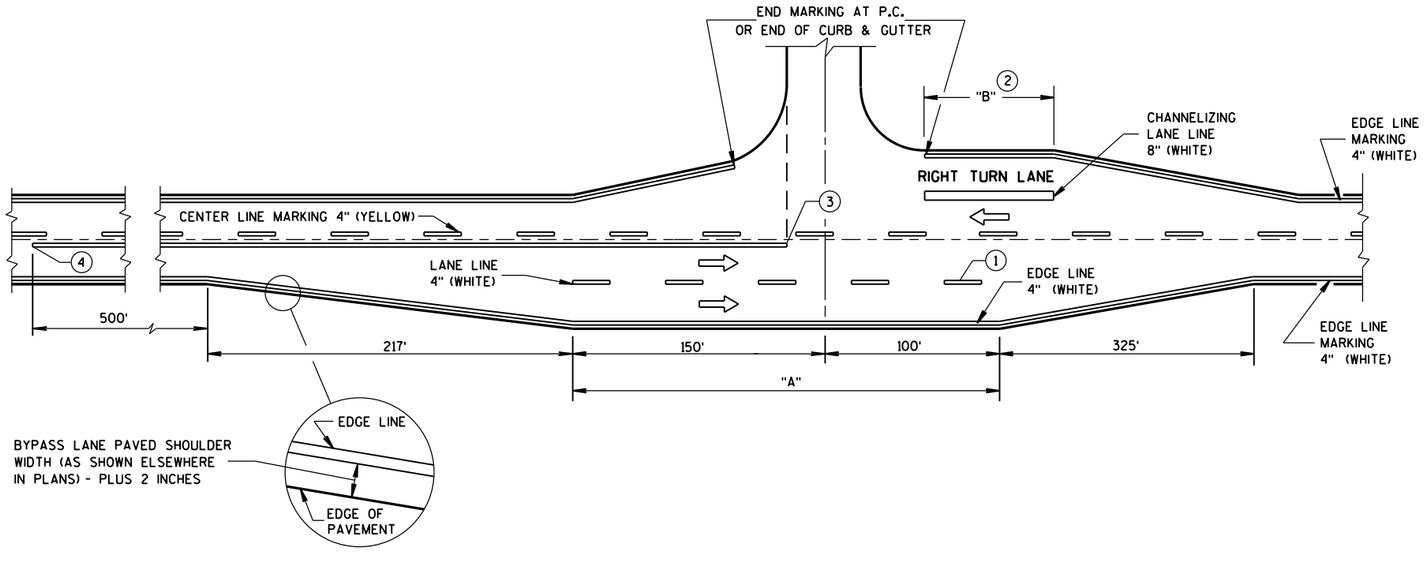
(1) WHEN DISTANCE "A" IS LESS THAN 250 FEET, OMIT LANE LINE.

(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

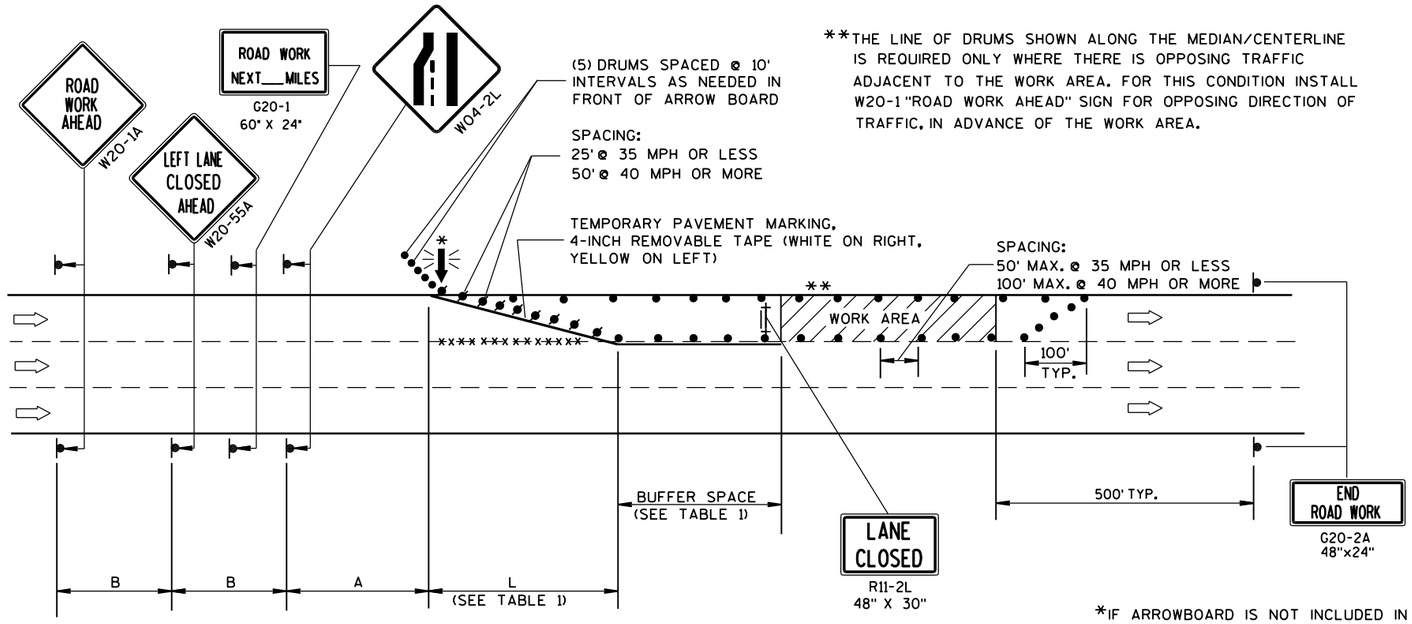
(INTERSECTION WITH FULL RIGHT TURN LANE OR BYPASS LANES)

PAVEMENT MARKING
(INTERSECTIONS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

6

S.D.D. 15 C 35-1a



**THE LINE OF DRUMS SHOWN ALONG THE MEDIAN/CENTERLINE IS REQUIRED ONLY WHERE THERE IS OPPOSING TRAFFIC ADJACENT TO THE WORK AREA. FOR THIS CONDITION INSTALL W20-1 "ROAD WORK AHEAD" SIGN FOR OPPOSING DIRECTION OF TRAFFIC, IN ADVANCE OF THE WORK AREA.

B=400' AT 25-30 MPH
700' AT 35-40 MPH
1000' AT 45-55 MPH

A=200' AT 25-30 MPH
350' AT 35-40 MPH
500' AT 45-55 MPH

(PLACE BARRICADE AND SIGN APPROX. EVERY 1000' ACROSS THE CLOSED LANE)

*IF ARROWBOARD IS NOT INCLUDED IN MISCELLANEOUS QUANTITIES, SUBSTITUTE A TYPE III BARRICADE WITH W01-6 SIGN IN THE LANE CLOSURE TAPER.

W01-6
48"x24"

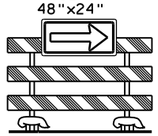


TABLE 1
TAPER AND BUFFER SPACE FOR 12' LANE WIDTH

S	L	BUFFER SPACE
25	125'	55'
30	180'	85'
35	245'	120'
40	320'	170'
45	540'	220'
50	600'	280'
55	660'	335'

FOR LANE WIDTH OTHER THAN 12':

L = WS AT 45 MPH OR GREATER

$L = \frac{WS^2}{60}$ AT 40 MPH OR LESS

L = TAPER LENGTH IN FEET

S = NON-CONSTRUCTION SPEED LIMIT (MPH)

W = WIDTH OF LANE CLOSURE

LEGEND

- TYPE III BARRICADE WITH ATTACHED SIGN
- SIGN ON PERMANENT SUPPORT
- TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
- TRAFFIC CONTROL DRUM
- FLASHING ARROW BOARD
- DIRECTION OF TRAFFIC
- REMOVING PAVEMENT MARKING (SEE GENERAL NOTES)
- WORK AREA

GENERAL NOTES

THIS LANE CLOSURE DETAIL IS TYPICAL FOR CLOSING THE LEFT LANE. FOR A RIGHT LANE CLOSURE, REVERSE THE TRAFFIC CONTROL.

THIS DETAIL MAY BE USED FOR ROADWAYS WITH EITHER TWO OR THREE LANES IN EACH DIRECTION.

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

ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS IN URBAN AREAS, 36" X 36" SIGNS MAY BE USED IF APPROVED BY DISTRICT TRAFFIC UNIT.

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

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS, OR THAT WILL BE PLACED IN A CLOSED LANE, MAY BE MOUNTED ON PORTABLE SUPPORTS.

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.

REMOVE PAVEMENT MARKINGS AND PLACE TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE IF LANE CLOSURE IS TO BE IN PLACE FOR 4 OR MORE CONTINUOUS DAYS AND NIGHTS.

ON UNDIVIDED ROADWAYS, OMIT THE SIGNS SHOWN ON LEFT SIDE OF ROAD.

W20-1A, G20-1 AND G20-2A SIGNS ARE NOT REQUIRED IF THE LANE CLOSURE IS WITHIN A LARGER WORK ZONE WHERE THESE SIGNS ARE ALREADY PRESENT.

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

CONSIDER GEOMETRICS WHEN LOCATING SIGNS AND ARROWBOARDS SO THE APPROACHING DRIVER HAS A CLEAR VIEW OF THE ARROWBOARDS AND LANE CLOSURE DRUMS.

PLACE THE ARROWBOARD AS CLOSE AS POSSIBLE TO THE BEGINNING OF THE LANE CLOSURE TAPER, PREFERABLY ON THE SHOULDER OR TERRACE.

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

BARRICADES IN A CLOSED LANE 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.

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

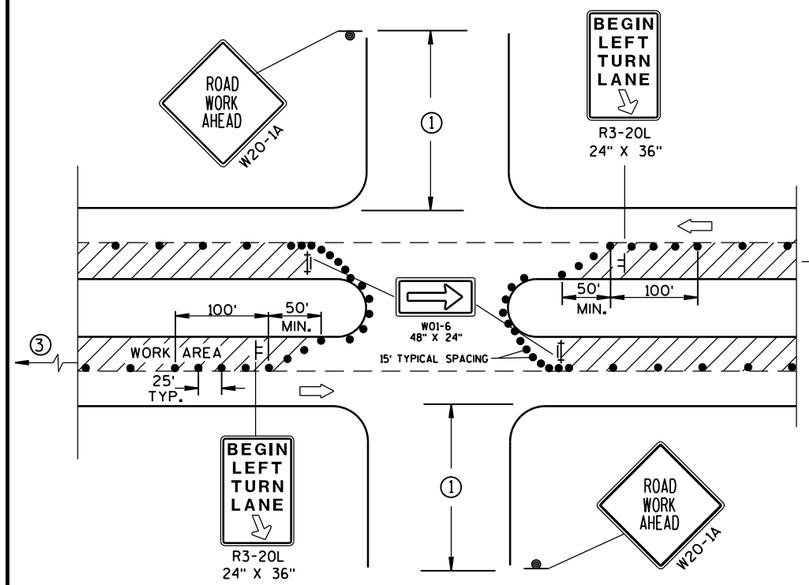
TRAFFIC CONTROL, SINGLE LANE CLOSURE, NON-FREEWAY/EXPRESSWAY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June 2016 — DATE
/S/ Peter Amakobe Atepe — STATEWIDE WORK ZONE SAFETY ENGINEER
FHWA

6

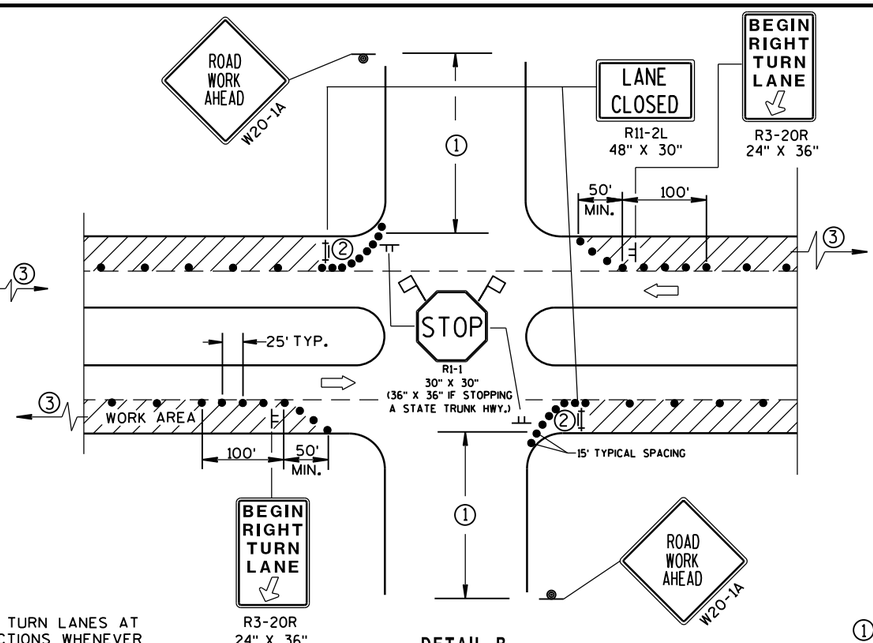
S.D.D. 15 D 20-4



DETAIL A

FOR LEFT LANE CLOSURE AT INTERSECTION OR MEDIAN OPENING

PROVIDE TURN LANES AT INTERSECTIONS WHENEVER STAGING OF WORK ALLOWS. TAPER AND TURN LANE LENGTHS BASED ON FIELD CONDITIONS AS APPROVED BY THE ENGINEER.



DETAIL B

FOR RIGHT LANE CLOSURE AT INTERSECTION

GENERAL NOTES

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

THE SPACING BETWEEN 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.

ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS IN URBAN AREAS, 36" X 36" SIGNS MAY BE USED IF APPROVED BY DISTRICT TRAFFIC UNIT.

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

SIGN LAYOUTS SHALL BE IN ACCORDANCE WITH THE FHWA'S MANUAL OF STANDARD HIGHWAY SIGNS OR THE WISCONSIN STANDARD SIGN PLATES.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS, OR THAT WILL BE PLACED IN A CLOSED LANE, MAY BE MOUNTED ON PORTABLE SUPPORTS.

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.

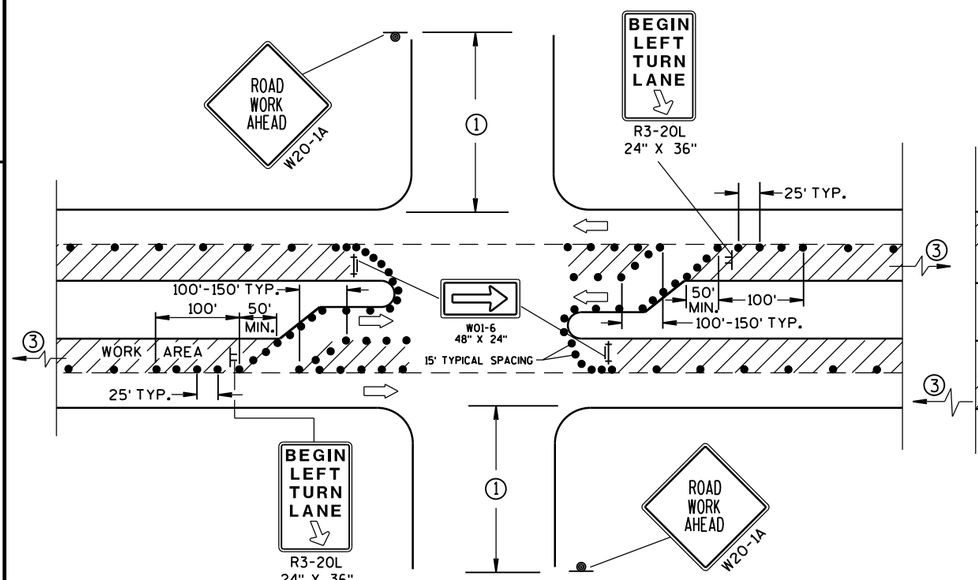
CHANNELIZING DEVICES PLACED ADJACENT TO WORK AREA SHALL BE PULLED BACK FROM THE TRAVEL LANE WHEN WORK IS NOT IN PROGRESS.

BARRICADES IN A CLOSED LANE 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.

① 500' TYPICAL OR AT LAST INTERSECTION, WHICHEVER IS CLOSER.
350' IF 35-40 MPH.
200' IF 25-30 MPH.

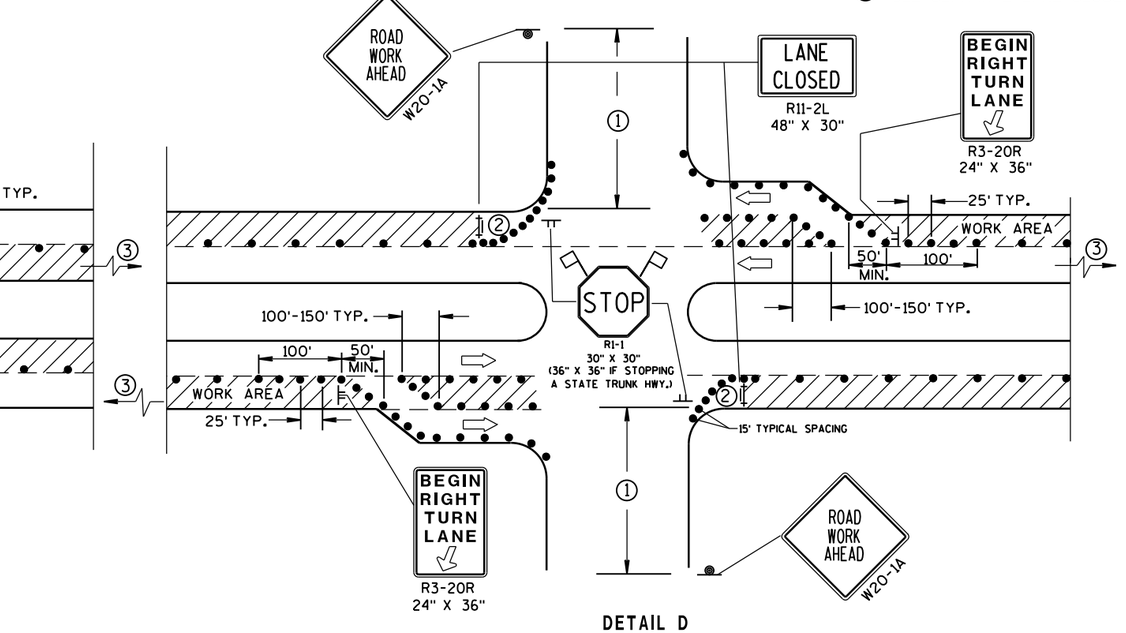
② ALSO USE BARRICADE AND 15-FOOT TYPICAL DRUM SPACING AT COMMERCIAL DRIVEWAYS.

③ SEE SEPARATE LANE CLOSURE DETAIL FOR ADDITIONAL TRAFFIC CONTROL.



DETAIL C

FOR LEFT LANE CLOSURE AT INTERSECTION OR MEDIAN OPENING (WITH LEFT TURN BAY OPEN)



DETAIL D

FOR RIGHT LANE CLOSURE AT INTERSECTION (WITH RIGHT TURN BAY OPEN)

LEGEND

- TRAFFIC CONTROL DRUM
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT (5' MIN. MOUNTING HEIGHT)
- TYPE III BARRICADE WITH ATTACHED SIGN AND TYPE "A" WARNING LIGHT (FLASHING)
- DIRECTION OF TRAFFIC
- FLAGS, 16" X 16" MIN., (ORANGE)
- WORK AREA

TRAFFIC CONTROL, INTERSECTION WITHIN SINGLE LANE CLOSURE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June 2016 — DATE
/S/ Peter Anakobe Atepe
STATEWIDE WORK ZO... SAFETY ENGI... — FHWA

6

S.D.D. 15 D 21-4
S.D.D. 15 D 21-4

LEGEND

- TRAFFIC CONTROL DRUM
- SIGN ON PERMANENT SUPPORT
- DIRECTION OF TRAFFIC
- FLASHING ARROW BOARD
- WORK AREA

GENERAL NOTES

THIS DETAIL IS TYPICAL FOR CLOSING THE RIGHT SHOULDER. FOR CLOSING THE LEFT SHOULDER, REVERSE THE TRAFFIC CONTROL.

THIS DETAIL MAY BE USED FOR DIVIDED ROADWAYS WITH ANY NUMBER OF TRAVEL LANES.

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

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

SIGN LAYOUTS SHALL BE IN ACCORDANCE WITH THE FHWA'S MANUAL OF STANDARD HIGHWAY SIGNS OR THE WISCONSIN STANDARD SIGN PLATES.

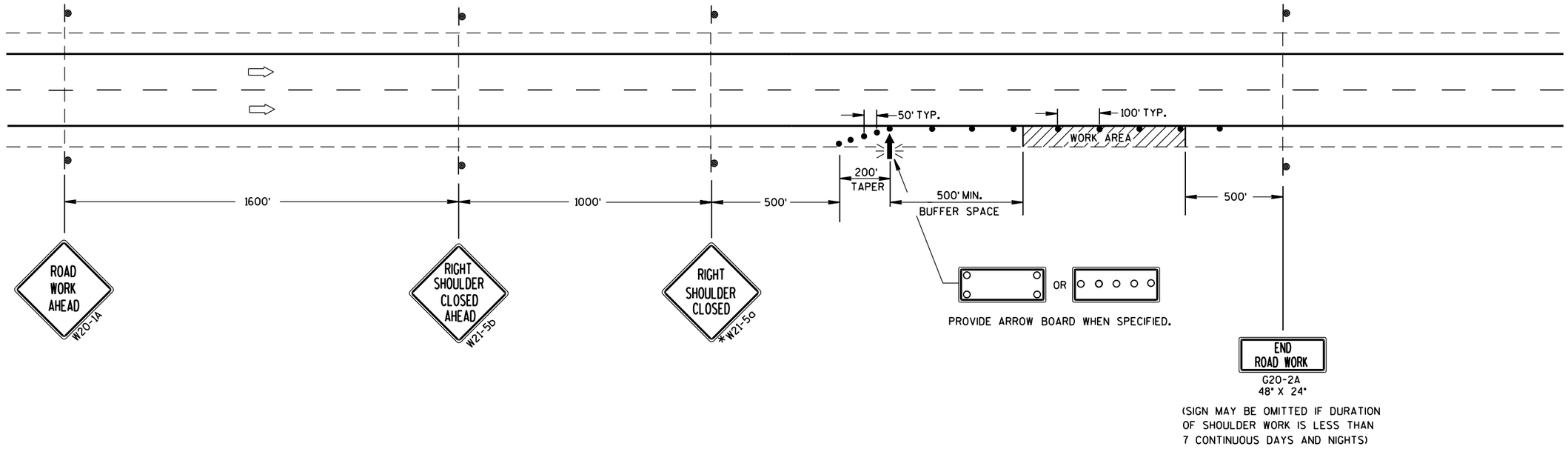
SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

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.

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

WHEN A 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.

*FOR SHORT DURATION SHOULDER WORK OF LESS THAN ONE HOUR, THE W21-5a SIGN MAY BE OMITTED.



TRAFFIC CONTROL SHOULDER CLOSURE ON DIVIDED ROADWAY, SPEEDS GREATER THAN 40 MPH

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

June 2016 — DATE

/S/ Peter Amakobe Atepe
STATEWIDE WORK ZO[illegible] SAFETY ENGI[illegible]

FHWA

6

S.D.D. 15 D 27-3

GENERAL NOTES

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

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

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

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

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.

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

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

TABLE A

S \ W	SHOULDER TAPER LENGTH (FEET) 4	6	8	10	BUFFER SPACE (FEET)
30	20	30	40	50	200
35	30	45	55	70	250
40	40	55	75	90	305
45	60	90	120	150	360
50	70	100	135	170	425
55	75	110	150	185	495

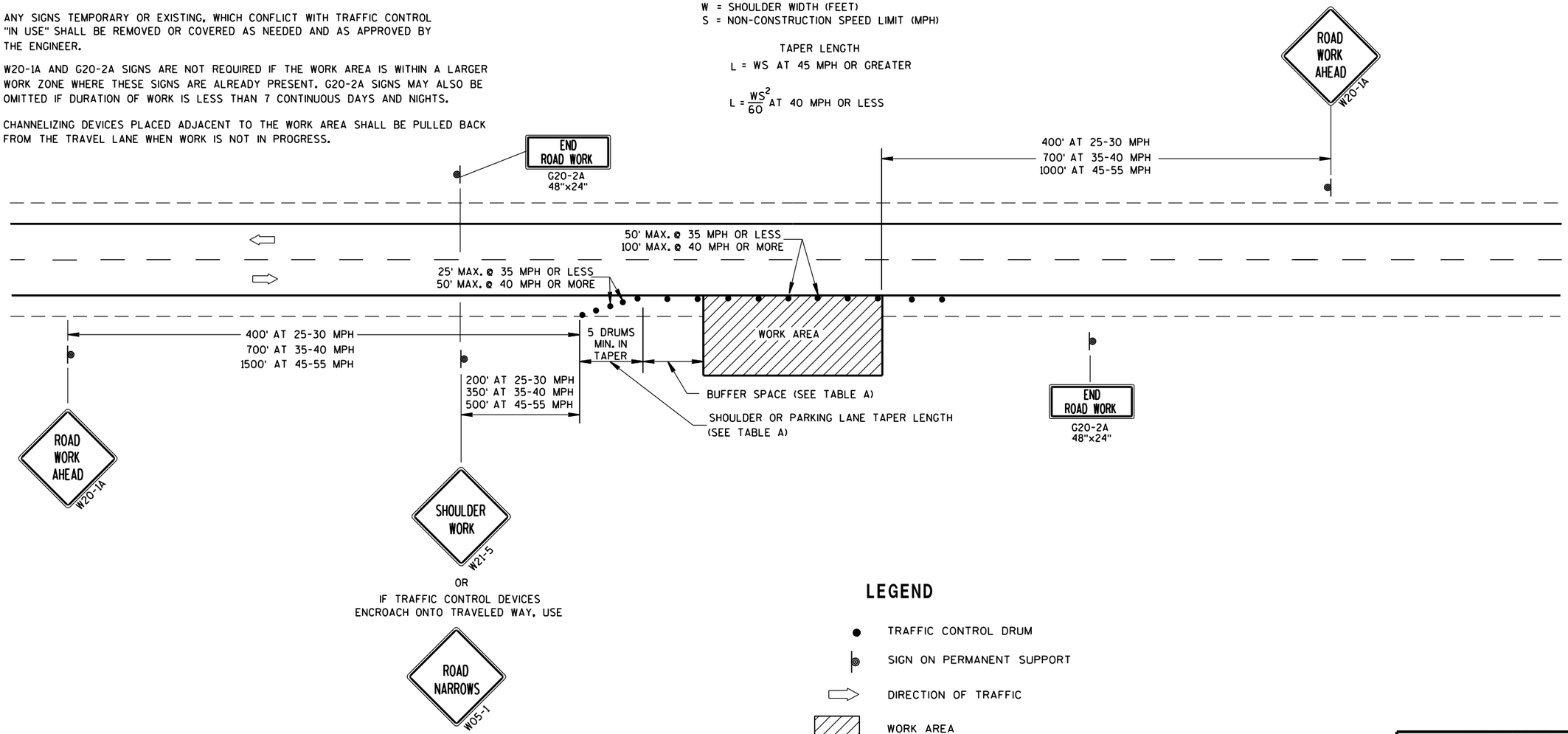
W = SHOULDER WIDTH (FEET)
S = NON-CONSTRUCTION SPEED LIMIT (MPH)

TAPER LENGTH

L = WS AT 45 MPH OR GREATER

$L = \frac{WS^2}{60}$ AT 40 MPH OR LESS

SHOULDER TAPER LENGTH = $\frac{1}{3}L$



LEGEND

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

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

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

July 14, 2015 — DATE

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

FHWA

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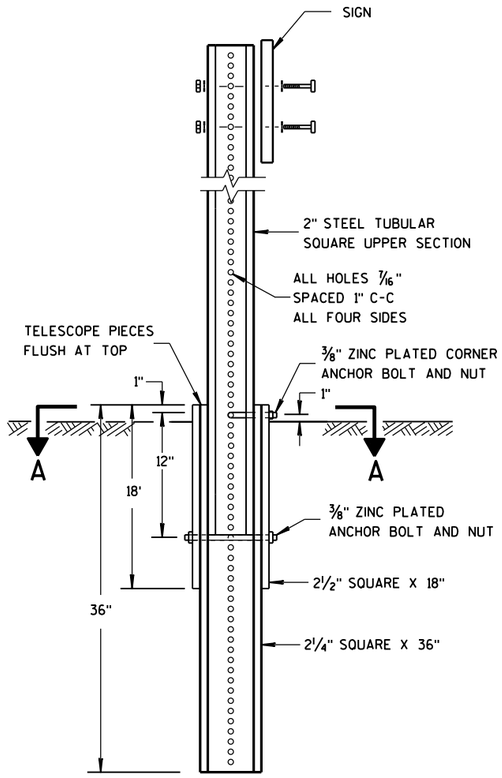
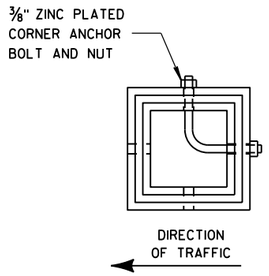
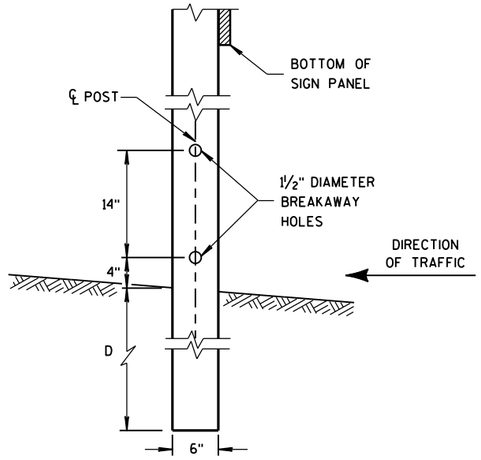
S.D.D. 15 D 28-3



DETAIL OF TUBULAR STEEL SIGN POST



SECTION A-A



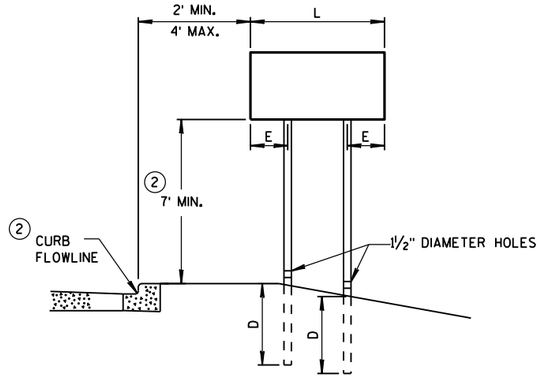
4"x6" WOOD POST MODIFICATION

GENERAL NOTES

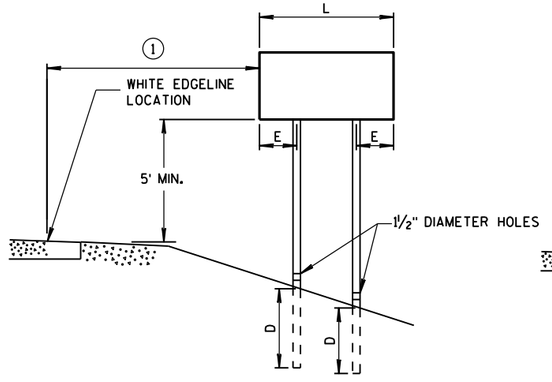
(1) 6 FEET FROM THE EDGE OF PAVEMENT (EDGE LINE LOCATION) UNLESS OTHERWISE DIRECTED BY THE PROJECT ENGINEER. LATERAL OFFSET SHOULD BE ADJUSTED TO AVOID THE DITCH FLOWLINE.

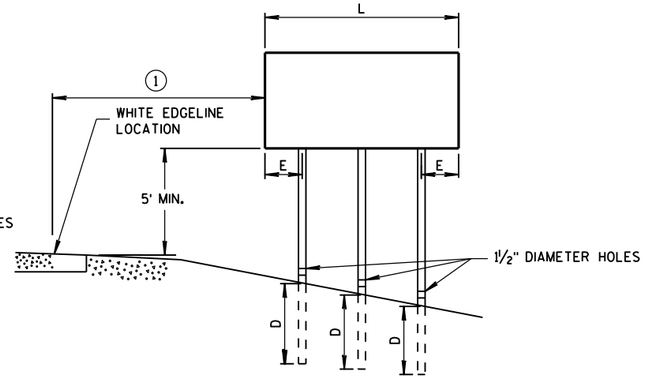
(2) THE EXISTENCE OF CURB AND GUTTER DOES NOT IN ITSELF MANDATE THE VERTICAL CLEARANCE ILLUSTRATED. THAT HEIGHT IS TYPICALLY MEASURED WHERE THERE IS SIDEWALK ADJACENT TO THE ROADWAY OR PARKING IS PERMITTED. IN THE ABSENCE OF SIDEWALK, VERTICAL CLEARANCE IS MEASURED FROM THE TOP OF THE CURB. IF NO SIDEWALK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

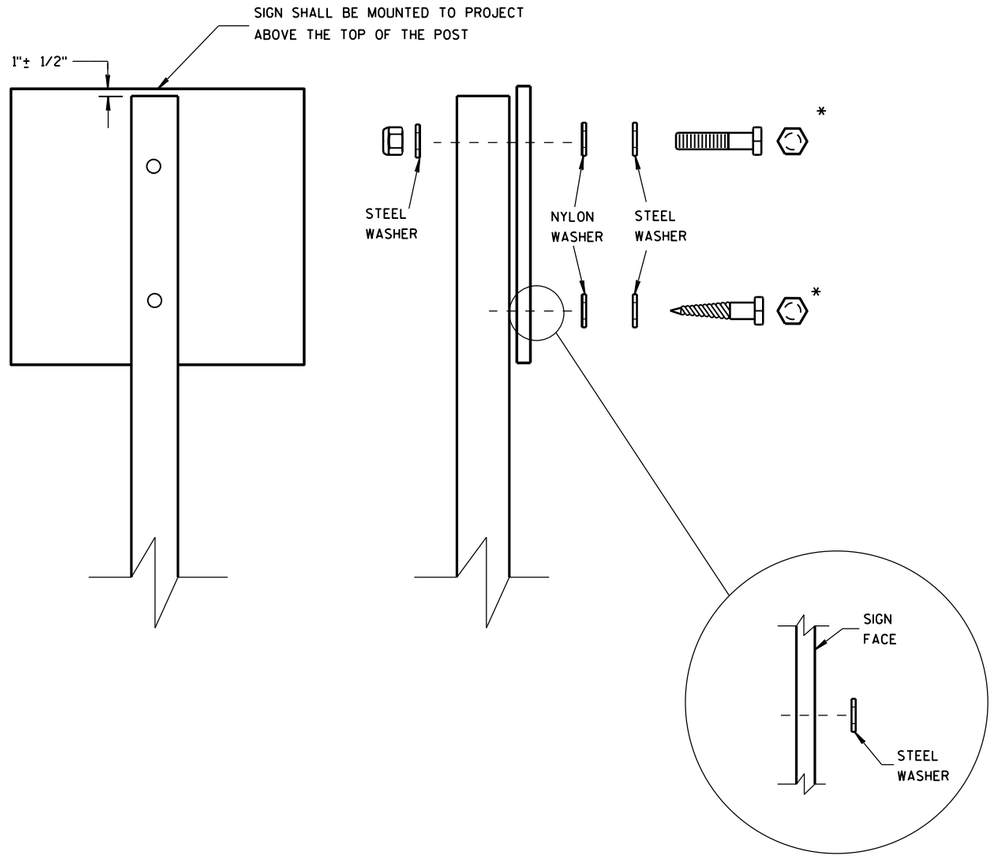
POST SPACING REQUIREMENTS		NUMBER OF WOOD POSTS REQUIRED
L	E	
48" OR LESS AND LESS THAN 20 SQ. FT.	-	1
LESS THAN 60"	12"	2
60" TO 120"	L/5	2
GREATER THAN 120" LESS THAN 168"	12"	3
168" AND GREATER	12"	4

SEE NOTE (3)

TEMPORARY TRAFFIC CONTROL FIXED MESSAGE SIGNS

STATE OF WISCONSIN DEPARTMENT OF TRANSPO

6
S.D.D. 15 D 38-1a



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

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S.D.D. 15 D 38-1b

S.D.D. 15 D 38-1b

ATTACHMENT OF SIGNS TO POSTS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

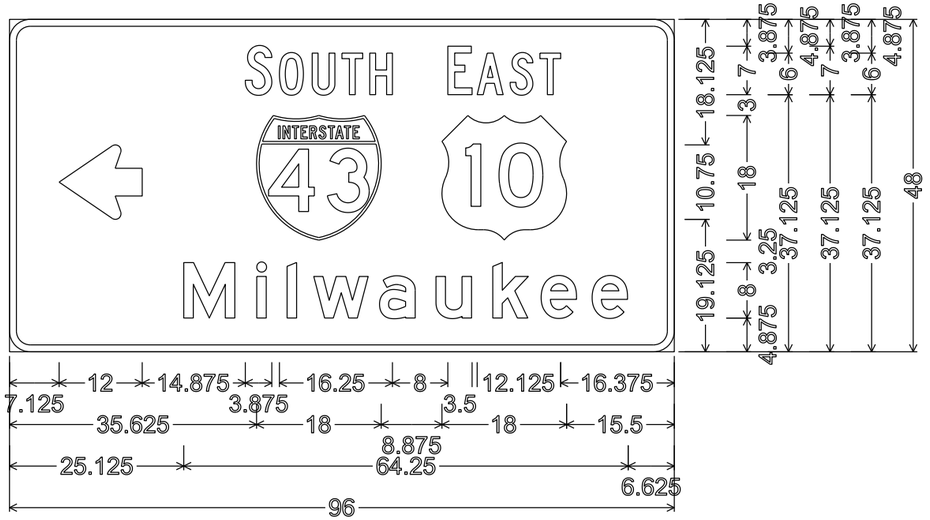
APPROVED

Feb. 2015 — DATE

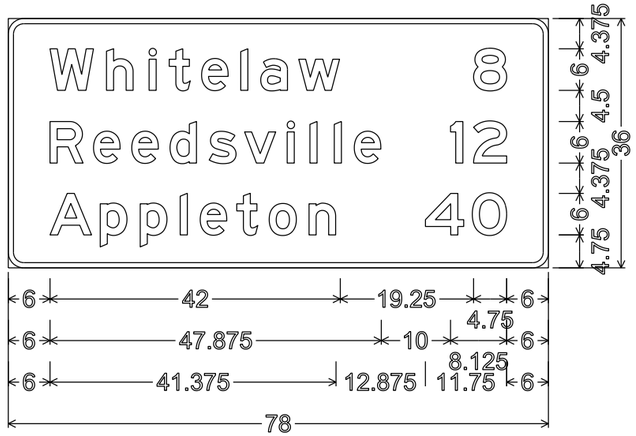
/S/ Travis Feltes — STATE TRAFFIC ENGINEER

FHWA

SIGN



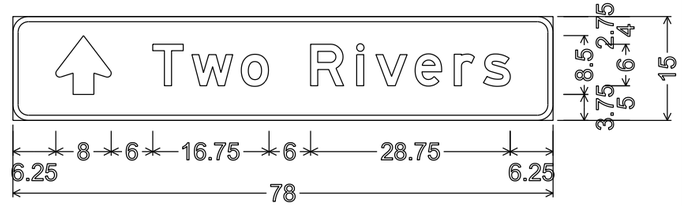
3.000" Radius, 1.000" Border
"SOUTH" C; "EAST" C; "Milwaukee" E;



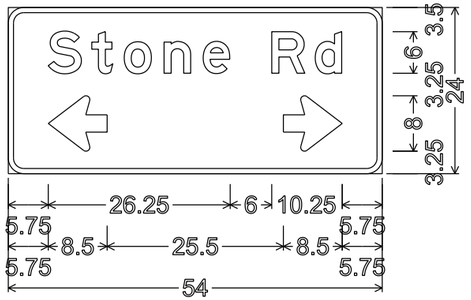
D2-3;
2.250" Radius, 0.750" Border

NOTES

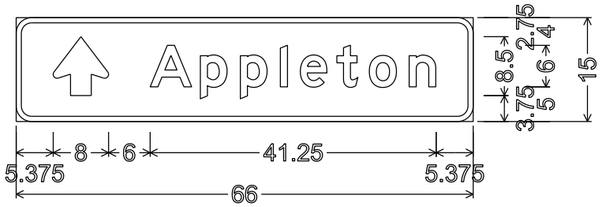
1. Signs are Type II- Type H Reflective
2. Color:
   Background - Green
   Message - White
3. Message Series - E



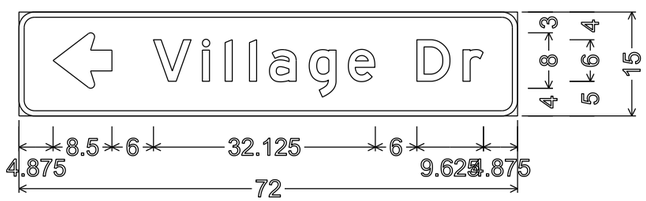
D1-1;
2.250" Radius, 0.750" Border



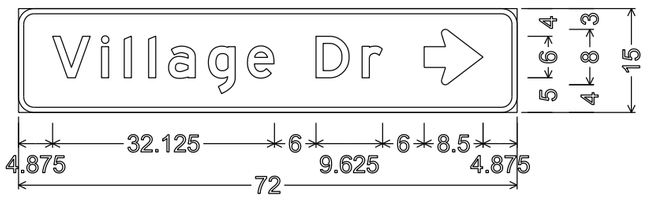
D1-61;
2.250" Radius, 0.750" Border



D1-1;
2.250" Radius, 0.750" Border



D1-1;
2.250" Radius, 0.750" Border

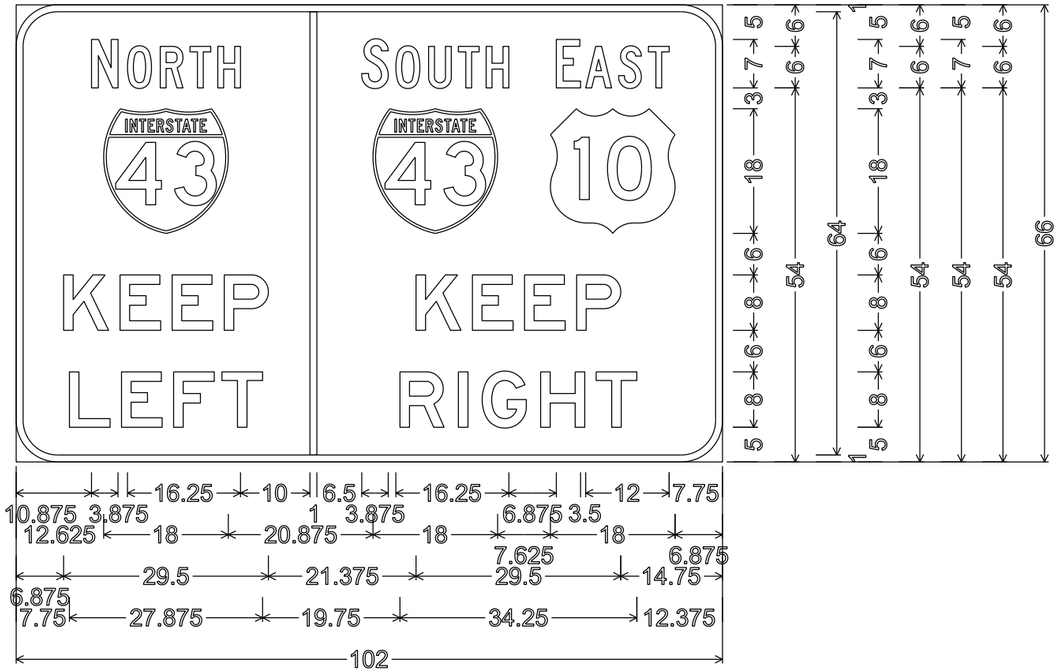


D1-1;
2.250" Radius, 0.750" Border

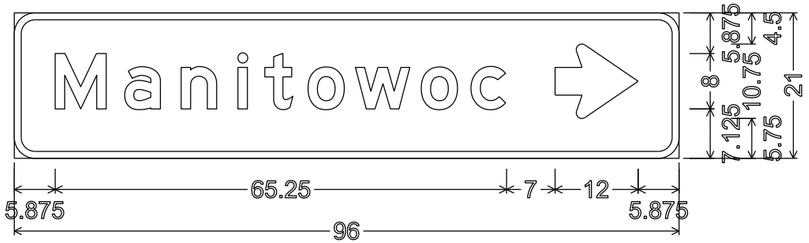
7

7

PROJECT NO: 1500-67-60	HWY: USH 10	COUNTY: MANITOWOC	PERMANENT SIGNING	SHEET NO: 50	E



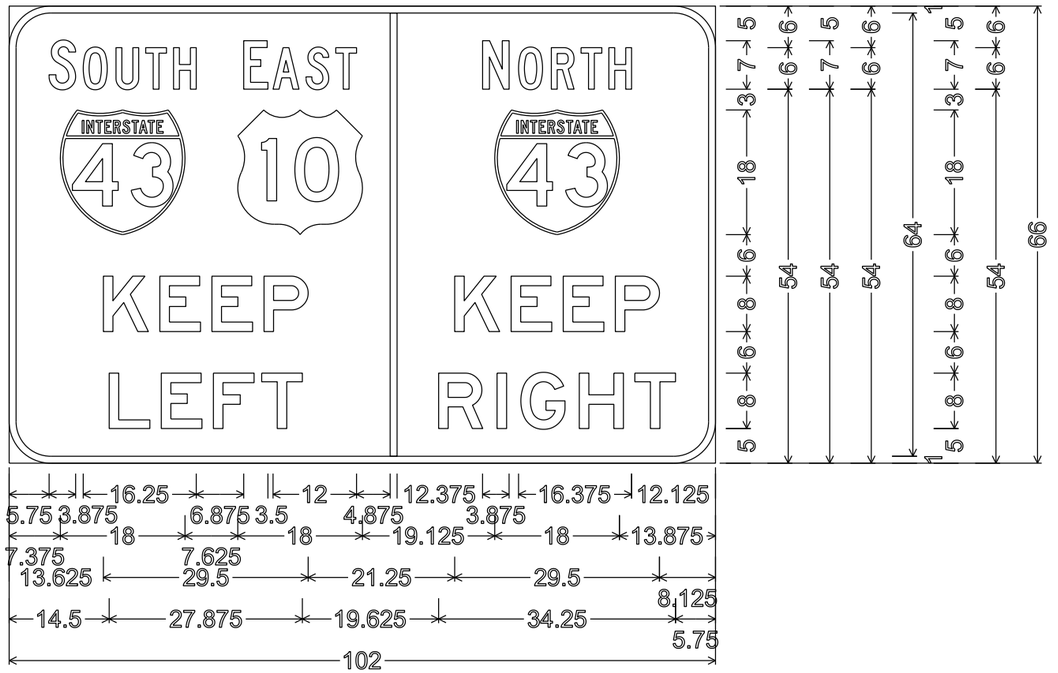
D1-72; 6.000" Radius, 1.000" Border,
"NORTH" C; "KEEP" E; "LEFT" E; "SOUTH" C; "EAST" C;
"KEEP" E; "RIGHT" E;



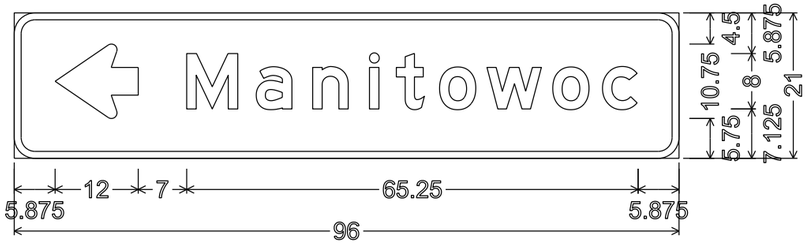
D1-1; 3.000" Radius, 1.000" Border

NOTES

1. Signs are Type II- Type H Reflective
2. Color:
   Background - Green
   Message - White
3. Message Series - E



D1-72; 6.000" Radius, 1.000" Border,
"SOUTH" C; "EAST" C; "KEEP" E; "LEFT" E; "NORTH" C;
"KEEP" E; "RIGHT" E;

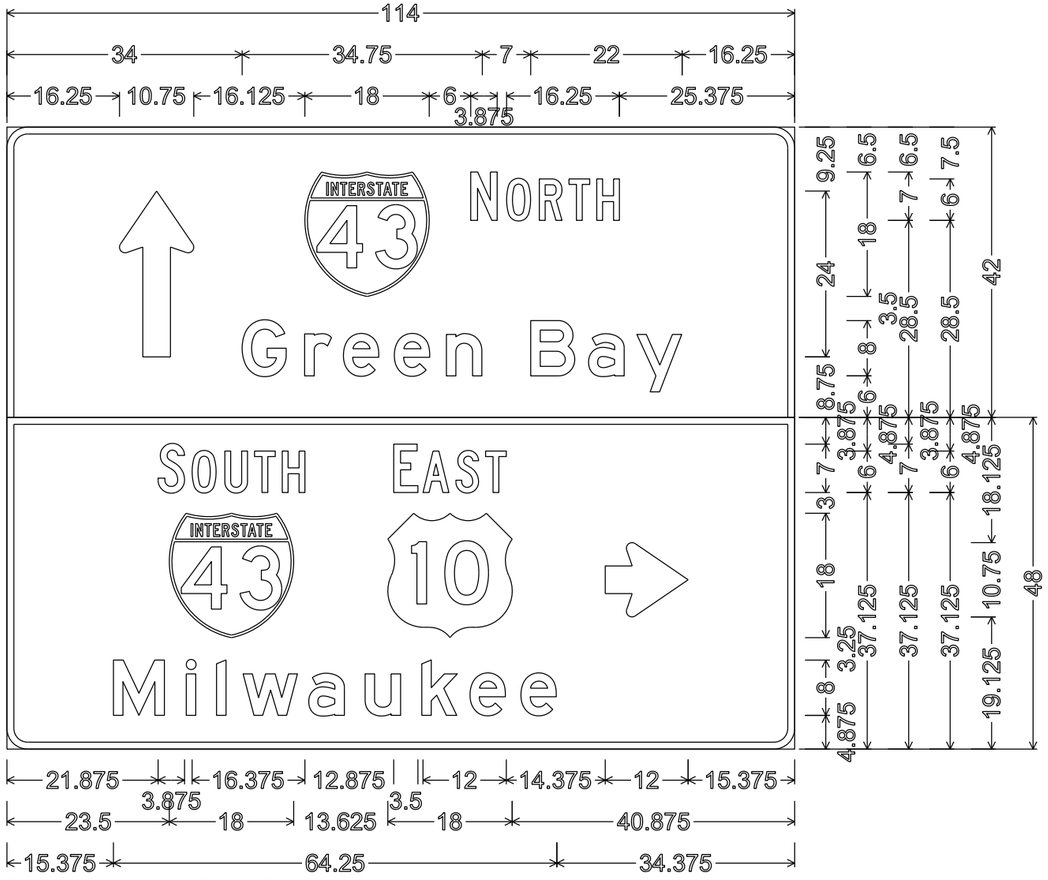


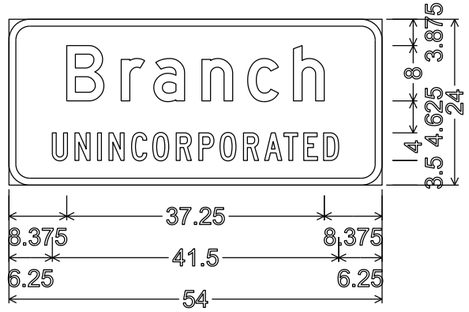
D1-1; 3.000" Radius, 1.000" Border

7

7

PROJECT NO: 1500-67-60	HWY: USH 10	COUNTY: MANITOWOC	PERMANENT SIGNING	SHEET NO: 51	E

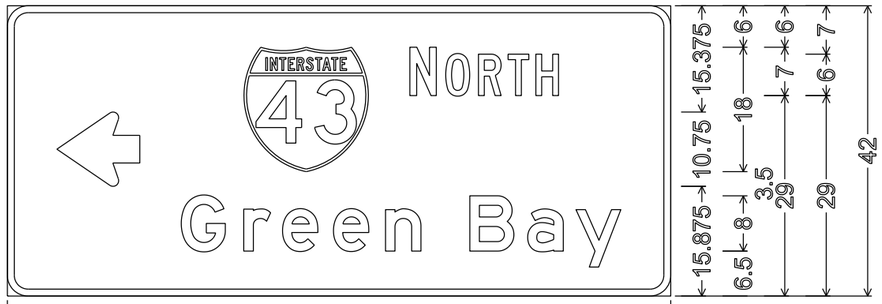




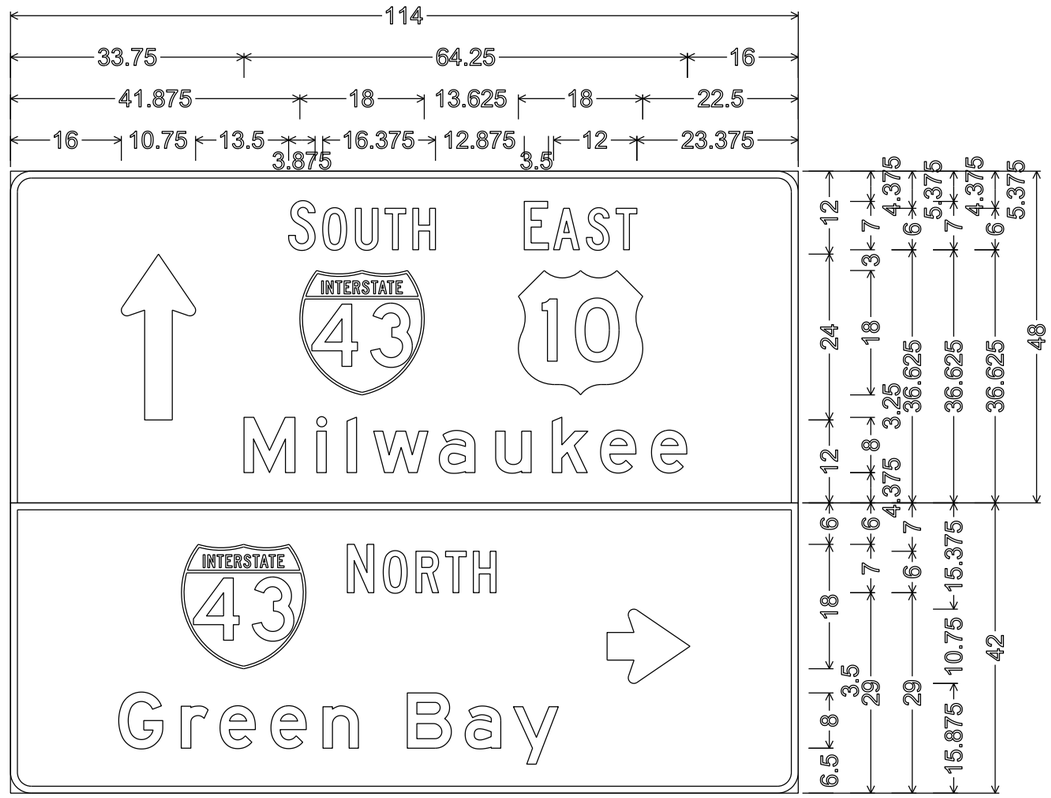
I2-3;
3.000" Radius, 1.000" Border,
"Branch" D; "UNINCORPORATED" C

NOTES

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



3.000" Radius, 1.000" Border,
"NORTH" C; "Green" E; "Bay" E; "SOUTH" C; "EAST" C; "Milwaukee" E



3.000" Radius, 1.000" Border
"SOUTH" C; "EAST" C; "Milwaukee" E; "NORTH" C; "Green" E; "Bay" E;

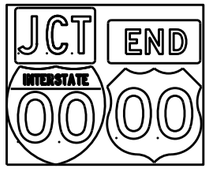
7

7

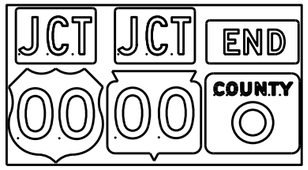
PROJECT NO: 1500-67-60	HWY: USH 10	COUNTY: MANITOWOC	PERMANENT SIGNING	SHEET NO: 52	E

TYPICAL ASSEMBLIES

J1-1

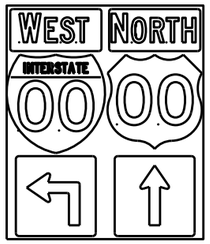


J1-2

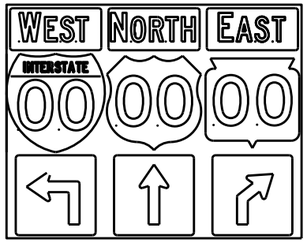


J1-3

J2-1



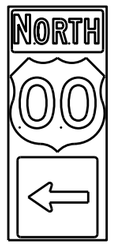
J2-2



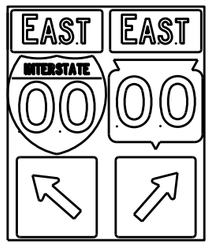
J2-3

JV

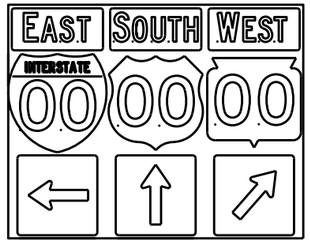
(Typical Vertical J-Assembly
See Note 10 and 11)



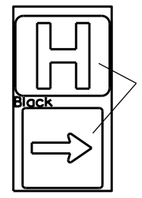
J3-1



J3-2



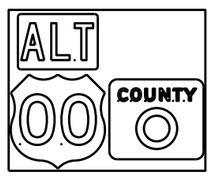
J3-3



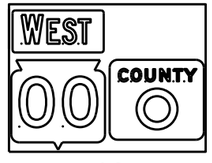
Blue Background

JH-1

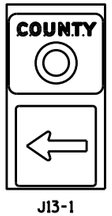
J4-1



J4-2



J4-2



J13-1

J12-1

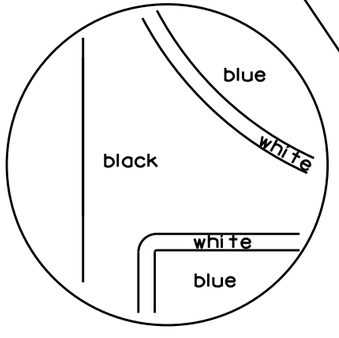
J32-1

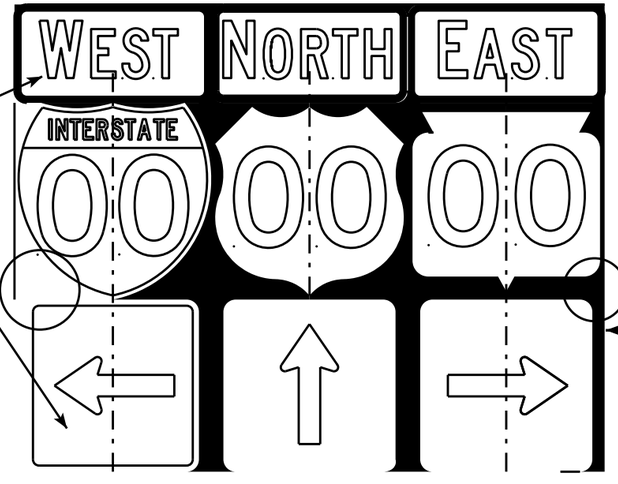
J33-1

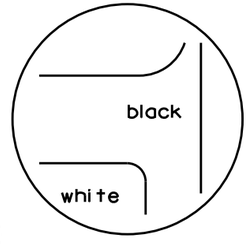
J23-1

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

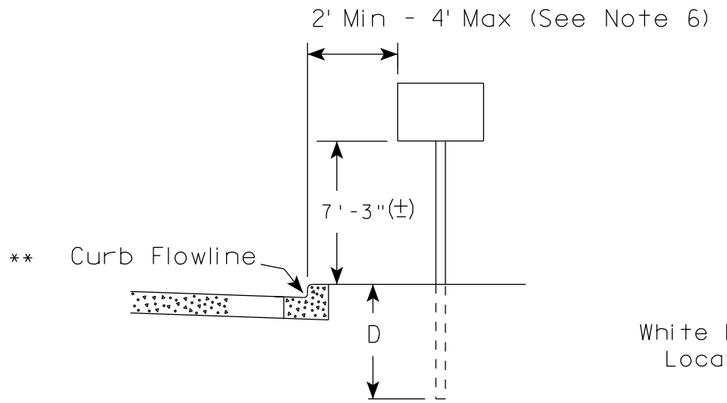
DATE 2/06/14 PL... A2-1S.8

PROJECT NO: | SHEET NO: E

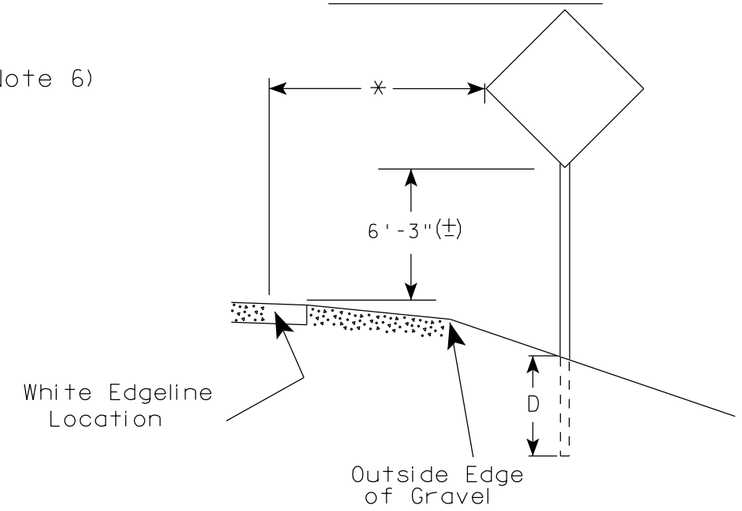
FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A21S.DGN PLOT DATE : 06-FEB-2014 14:10 PLOT BY : mscsja PLOT NAME :

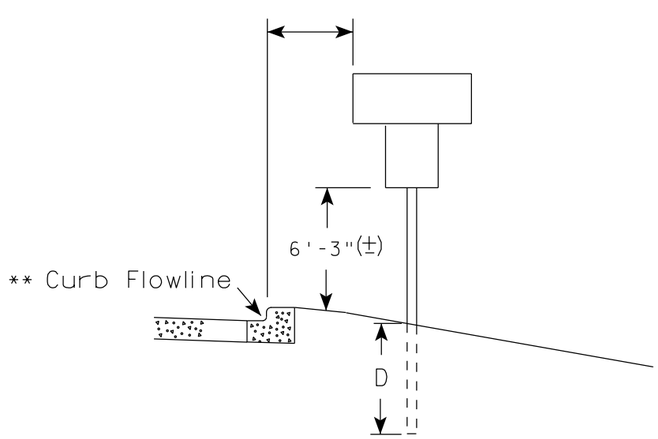
WISDOT/CADDS SHEET 42

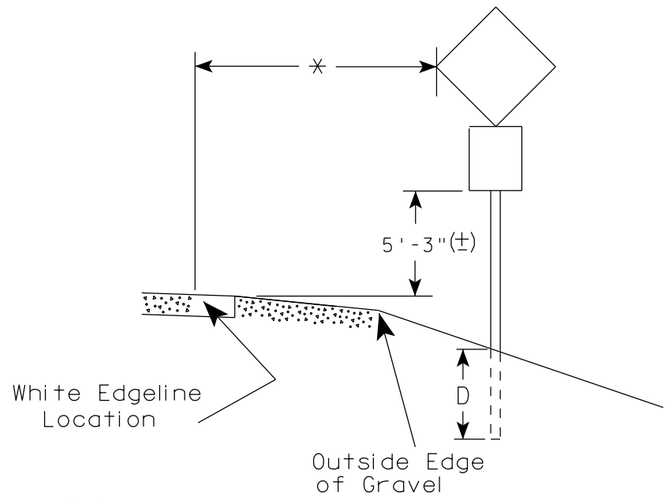
URBAN AREA



RURAL AREA (See Note 2)







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

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

POST EMBEDMENT DEPTH

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

GENERAL NOTES

1. Signs wider than 4 feet or 20 sq.ft or larger, shall be mounted on multiple posts. Refer to plate A4-4.
2. If signs are mounted on 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" (±).

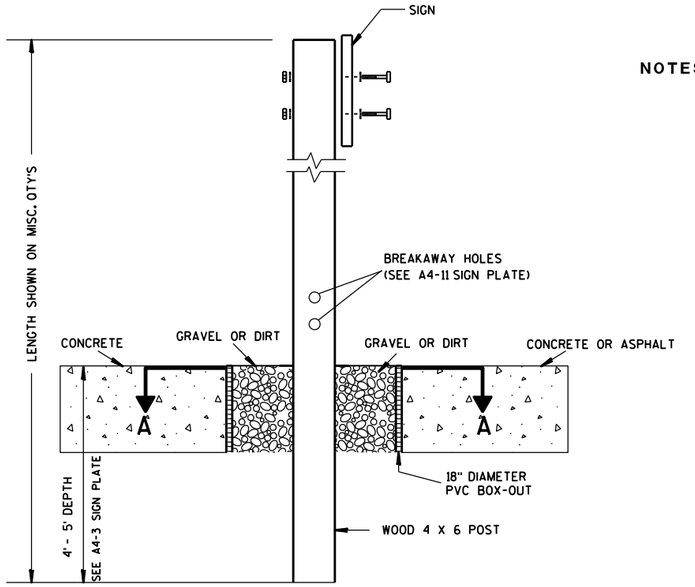
TYPICAL INSTALLATION OF PERMANENT TYPE II SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

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

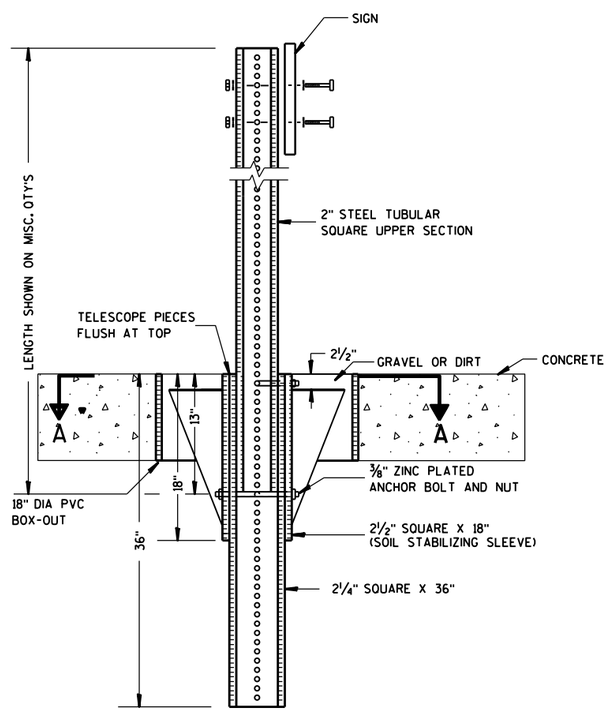
PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E



ELEVATION VIEW

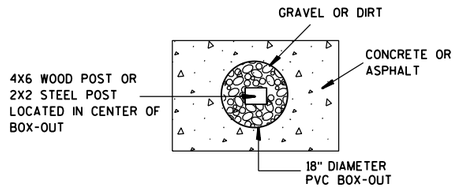
DETAIL OF WOOD 4 X 6 SIGN POST IN BOX-OUT

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



ELEVATION VIEW

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



PLAN VIEW

FOR NEW CONCRETE/ASPHALT INSTALLATIONS

SIGN POST BOX-OUTS A4-3B

WISCONSIN DEPT OF TRANSPORTATION

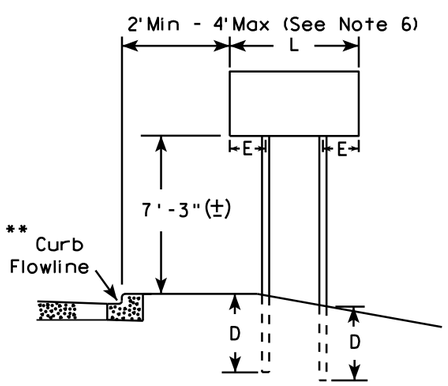
APPROVED Matthew R Rauch
for State Traffic Engineer

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

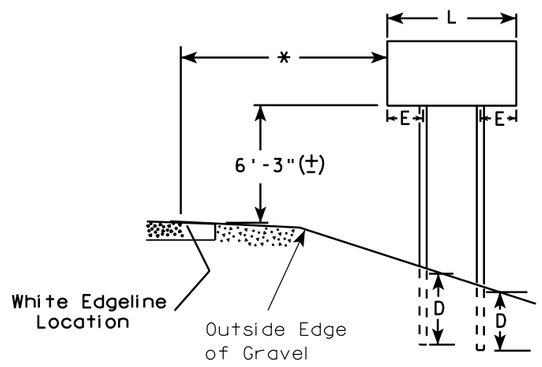
PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

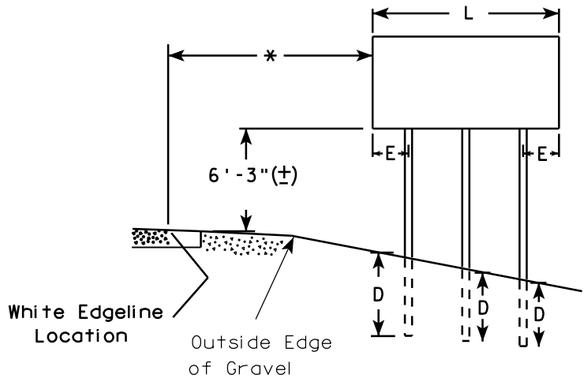
FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A43B.DGN PLOT DATE : 27-JAN-2014 09:48 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 13.659812:1.000000 WISDOT/CADDS SHEET 42

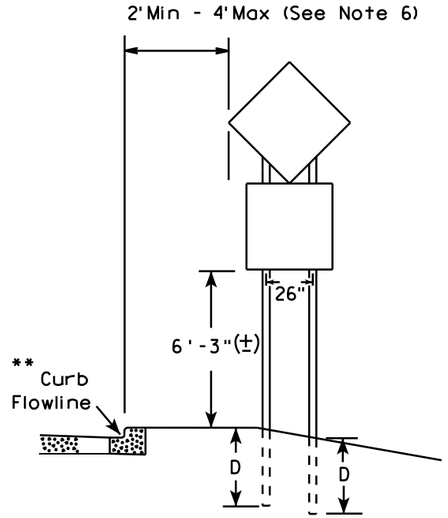
URBAN AREA



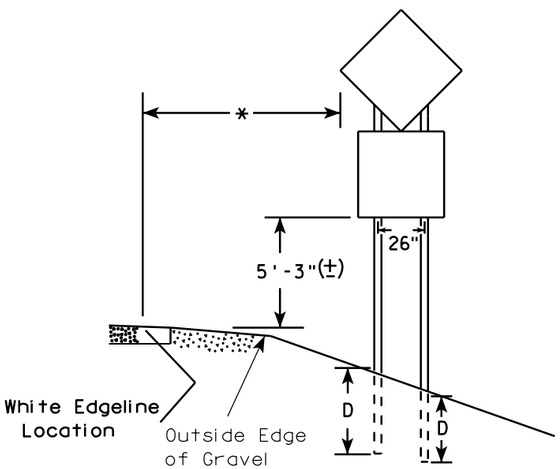
RURAL AREA (See Note 3)







48" DIAMOND WARNING SIGN



48" DIAMOND WARNING SIGN

***	SIGN SHAPE OTHER THAN DIAMOND (TWO POSTS REQUIRED)	
	L	E
	Greater than 48" Less than 60"	12"
	60" to 120"	L/5

SIGN SHAPE OTHER THAN DIAMOND (THREE POSTS REQUIRED)	
L	E
Greater than 120" less than 168"	12"

SIGN SHAPE OTHER THAN DIAMOND (FOUR POSTS REQUIRED)	
L	E
168" and greater	12"

GENERAL NOTES

1. For 3 or 4 post installations, individual post spacing shall be greater than 3'-6".
2. See tables below for required number of posts.
3. For expressways and freeways, mounting height is 7'-3" (±) or 6'-3" (±) depending upon existence of sub-sign.
4. The (±) tolerance for mounting height is 3 inches.
5. Minimum mounting height for J assemblies (A2-1S) is 7'-3" (±) or 6'-3" (±) per urban or rural detail respectively.
6. Offset distance shall be consistent with existing signs or consistent throughout length of project.
7. Folding signs shall be mounted at a height of 5'-3" (±) or as directed by the engineer.
8. The Double Arrow sign (W12-1) shall be mounted at a height of 2'-3" (±). The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), Clearance Markers (W5-52), Mile Markers (D10 series), In Road Object Markers (W5-54) & End of Road Markers (W5-56) shall be mounted at a height of 4"-3" (±).

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

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

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

POST EMBEDMENT DEPTH

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

TYPICAL INSTALLATION OF TYPE II SIGNS ON MULTIPLE POSTS

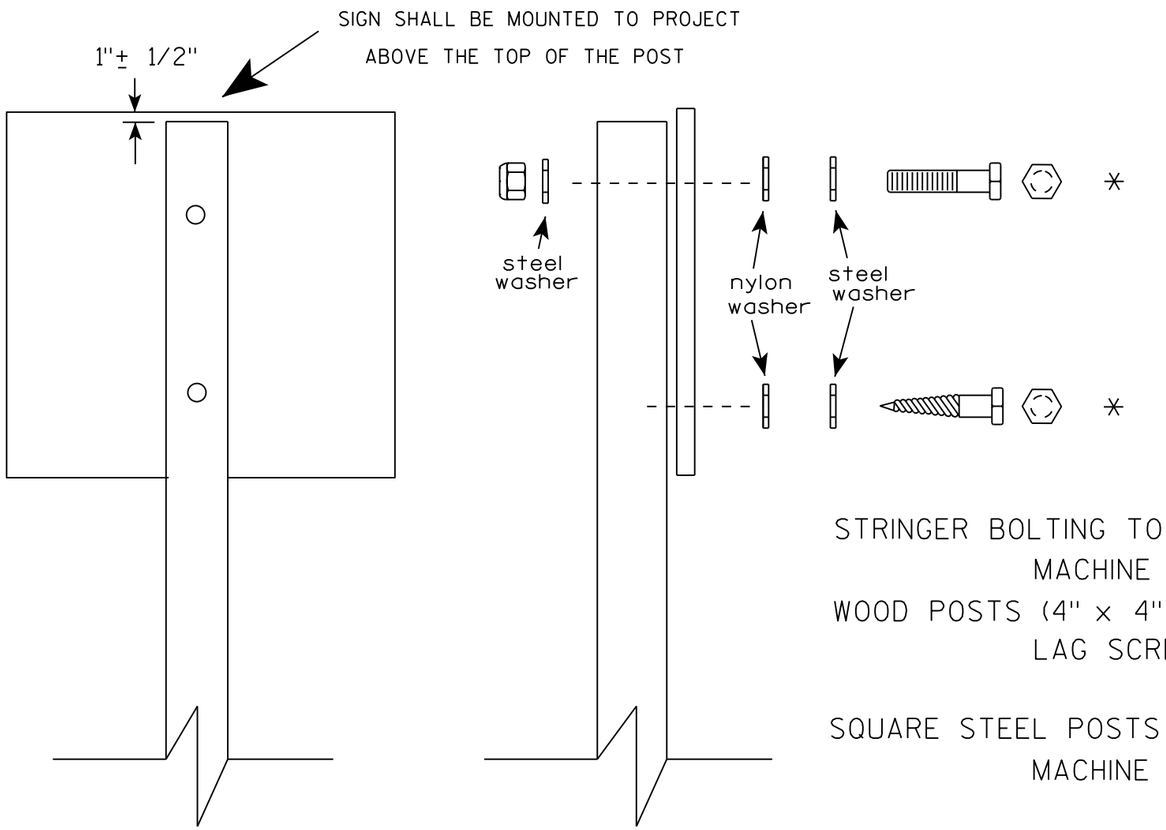
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 7/23/15 PLATE NO. A4-4 14

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\A44.DGN PLOT DATE : 23-JUL-2015 15:23 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 107.021305:1.000000 WISDOT/CADDS SHEET 42



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

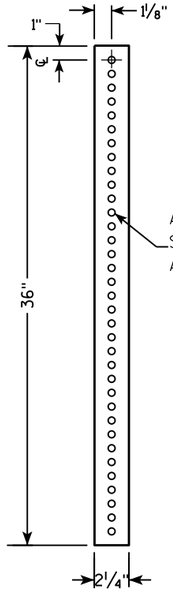
DATE 8/11/16 PLATE NO. A4-8.8

PROJECT NO: SHEET NO: E

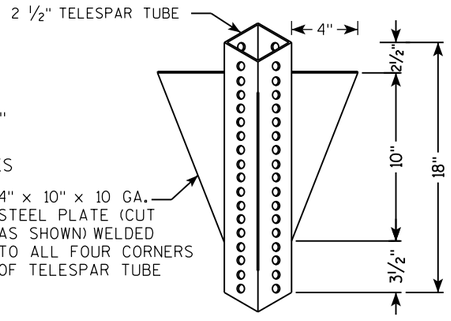
FILE NAME : C:\CADfiles\Projects\tr_stdplate\A48.DGN PLOT DATE : 11-AUG-2016 11:35 PLOT BY : $$ plotuser $$

TELESCOPIC TUBING ANCHORS
TWO PIECE SYSTEM

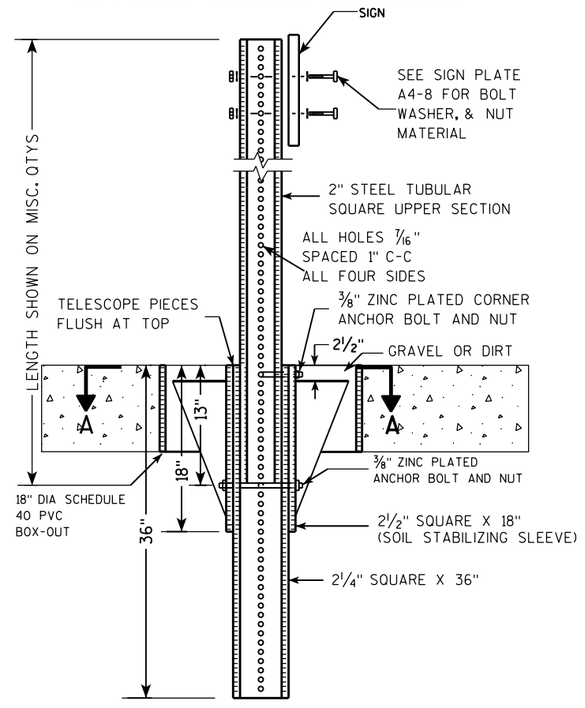
2 1/4 " SQUARE
12 GAUGE
PERFORATED
GALVANIZED FINISH



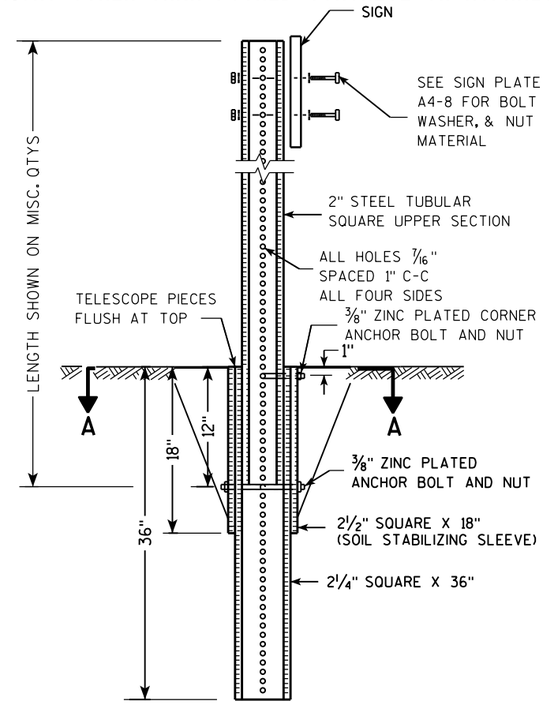
2 1/2 " SQUARE
12 GAUGE
OMNI-DIRECTIONAL
PERFORATED
SOIL STABILIZING SLEEVE
GALVANIZED FINISH

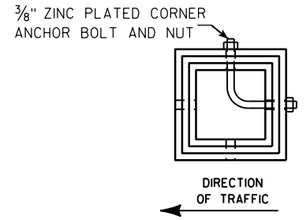


DETAIL OF TUBULAR STEEL SIGN POST
(IN POURED CONCRETE OR ASPHALT)



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





SECTION A-A

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

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

TUBULAR STEEL
SIGN POST
A4-9

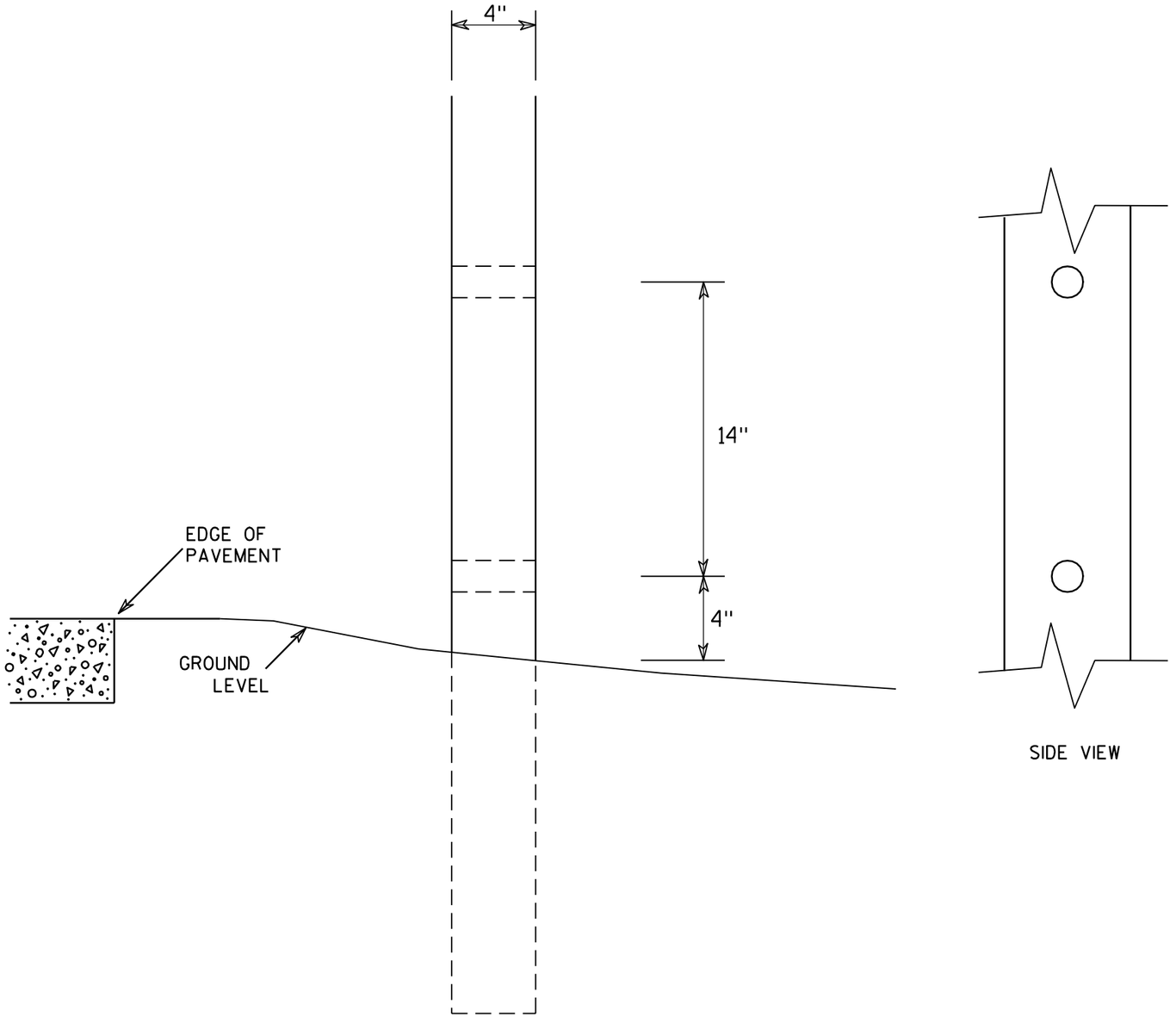
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/05/15 PLATE A4-9.9

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

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



SIDE VIEW

GENERAL NOTES

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

7

7

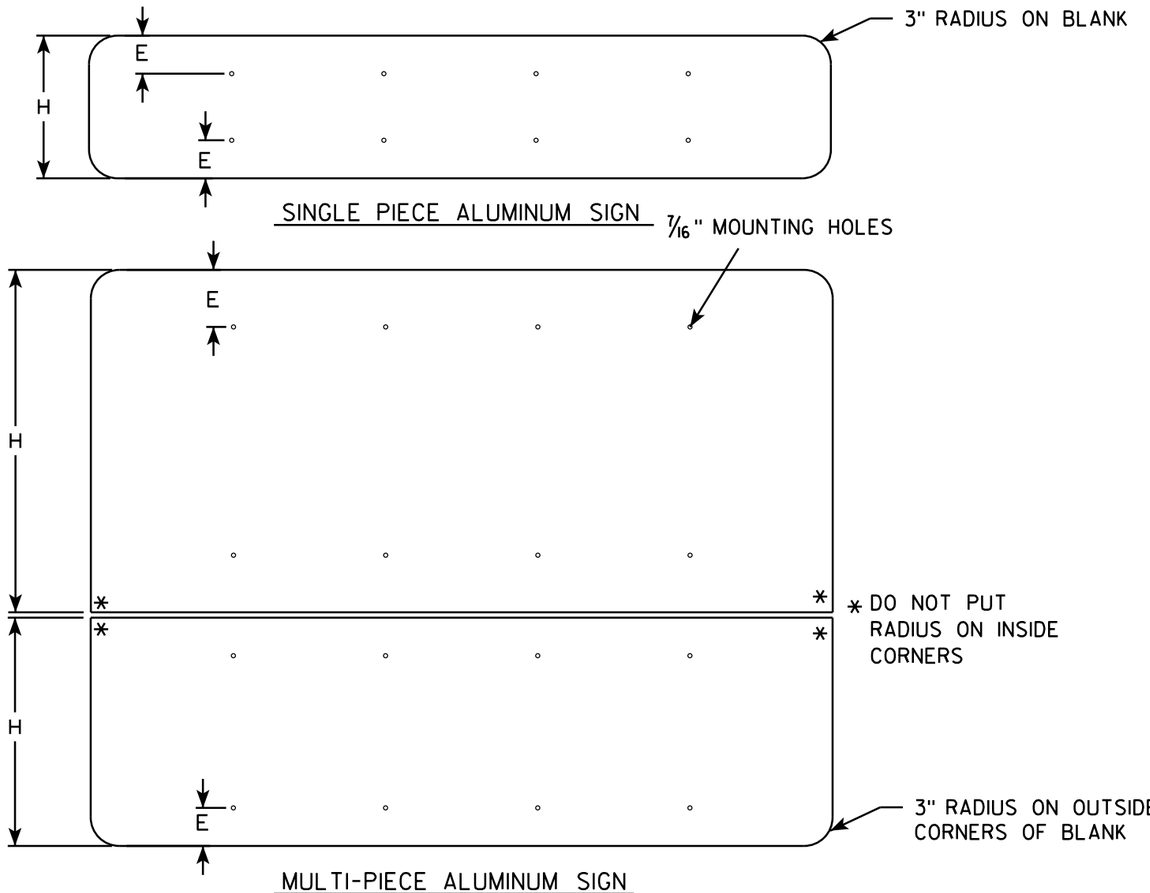
4 X 6 WOOD POST MODIFICATIONS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Chester J Spang
for State Traffic Engineer

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

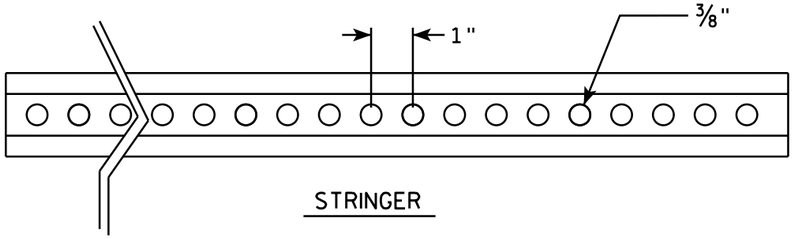
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 59	E



GENERAL NOTES

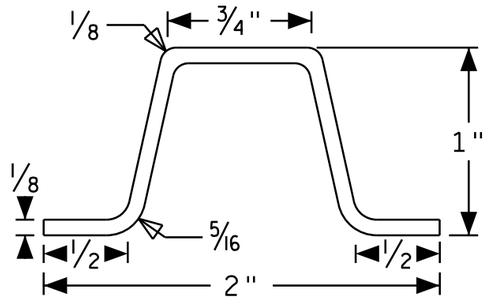
- ALL SIGNS OVER 60" IN WIDTH SHALL HAVE A 3" RADIUS ON THE OUTSIDE CORNERS OF THE ALUMINUM BLANK.
- MOUNTING HOLES SHALL BE 7/16" DIAMETER.
- SEE CHART FOR HOLE SPACING REQUIREMENTS
- FOR SIGN PANELS WITH DIMENSION (H) 36" AND OVER, DIMENSION E SHALL BE 6"
- FOR SIGN PANELS WITH DIMENSION (H) UNDER 36", DIMENSION E SHALL BE 4"
- SIGN STRINGER MATERIAL SHALL CONSIST OF STEEL CHANNEL POST SECTIONS, WEIGHING 1.12 LBS/FT IN ACCORDANCE WITH SECTION 633.2.1 OF THE STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION.
- SEE SIGN PLATE A4-8 FOR SIGN STRINGER BOLTING REQUIREMENTS.

SIGN WIDTH	STRINGER WIDTH	POSTS	HOLE SPACING	MOUNTING HOLES
78"	72"	2	16"	15" 31" 47" 63"
84"	72"	2	17"	16½" 33½" 50½" 67½"
90"	72"	2	18"	18" 36" 54" 72"
96"	90"	2	19"	19½" 38½" 57½" 76½"
102"	90"	2	20"	21" 41" 61" 81"
108"	90"	2	21"	22½" 43½" 64½" 85½"
114"	108"	3	15"	12" 27" 42" 57" 72" 87" 102"
120"	108"	3	16"	12" 28" 44" 60" 76" 92" 108"
126"	108"	3	17"	12" 29" 46" 63" 80" 97" 114"
132"	126"	3	18"	12" 30" 48" 66" 84" 102" 120"
138"	126"	3	19"	12" 31" 50" 69" 88" 107" 126"
144"	126"	3	20"	12" 32" 52" 72" 92" 112" 132"

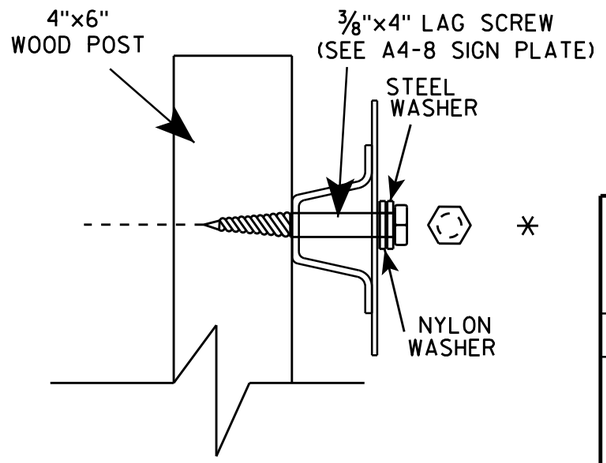


STRINGER

CROSS SECTION VIEW OF CHANNEL



POST MOUNTING



SIGN STRINGER MOUNTING REQUIREMENTS

WISCONSIN DEPT OF TRANSPORTATION

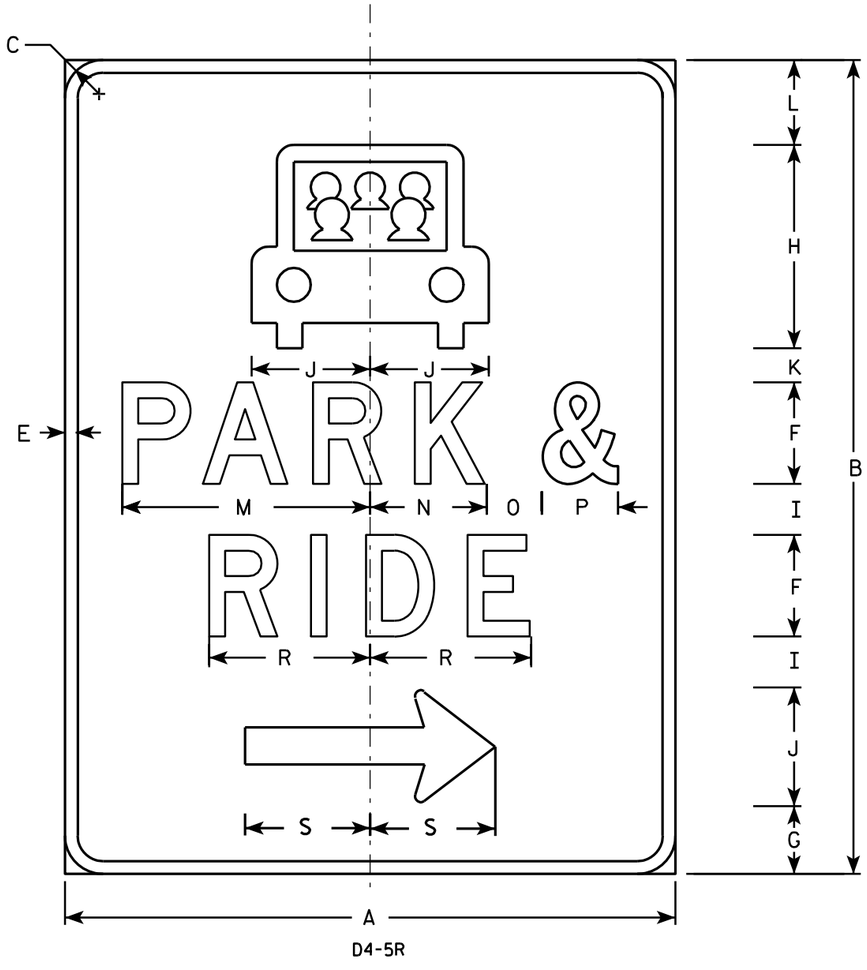
APPROVED Matthew R Rauch

for State Traffic Engineer

DATE 4/26/16 PLATE NO A4-18.1

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

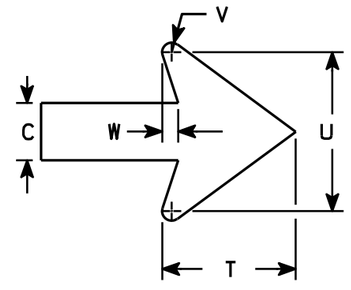
FILE NAME : C:\CAEfiles\Projects\tr_stdplate\A418.dgn PLOT DATE : 27-APR-2016 13:56 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 41.805205:1.000000 WISDOT/CADDS SHEET 42



D4-5R

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Green
   Message - White - Type H Reflective
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. The D4-5L is the same as a D4-5R except the arrow is reversed.



Arrow Detail

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	30	36	1 3/8		5/8	5	1 3/8	9	2	5	1 5/8	5	11 3/4	5 1/2	2 3/4	3 3/4		8	6 1/8	4	4 3/8	3/8	1/2				7.50
3	36	48	2 1/4		3/4	6	4	12	3	7	2	5	14 5/8	6 7/8	3 1/4	4 1/2		9 1/2	7 1/2	5 1/4	6 1/4	3/8	5/8				12.0
4																											
5																											

STANDARD SIGN
D4-5 L&R

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/15/10 PLATE NO. D4-5.2

PROJECT NO:

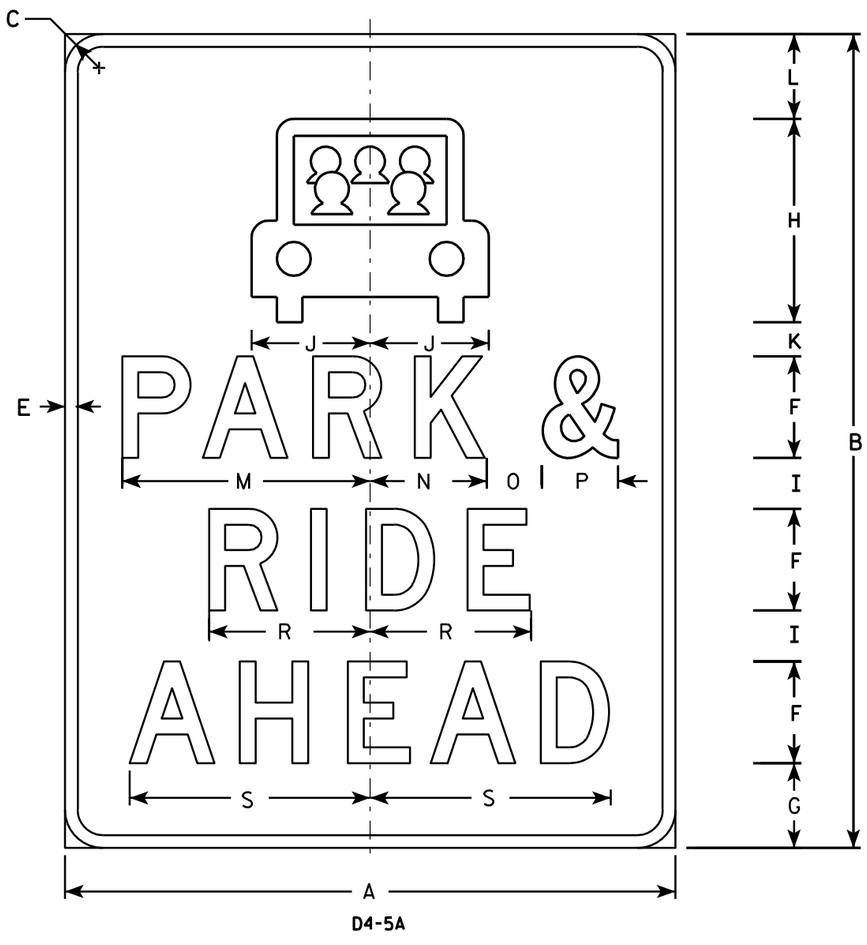
SHEET NO: 61 E

FILE NAME : C:\Users\PROJECTS\tr_stdplate\D45.DGN PLOT DATE : 15-NOV-2010 14:08 PLOT BY : dotsja

WISDOT/CADDS SHEET 42

7

7



D4-5A

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Green
   Message - White - Type H Reflective
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	30	1 1/8		1/2	4	2 7/8	7 1/2	2	4 3/4	1 3/8	2 1/4	9 3/4	4 5/8	2 3/4	3		6 3/8	9 1/8								5.0
2	30	36	1 3/8		5/8	5	3 3/8	9	2	5 7/8	1 5/8	3	12 1/4	5 1/8	3 3/8	3 3/4		8	11 3/8								7.5
3	36	48	2 1/4		3/4	6	5	12	3	7	2	5	14 5/8	6 7/8	3 1/4	4 1/2		9 1/2	14 1/4								12.0
4																											
5																											

STANDARD SIGN
D4-5A

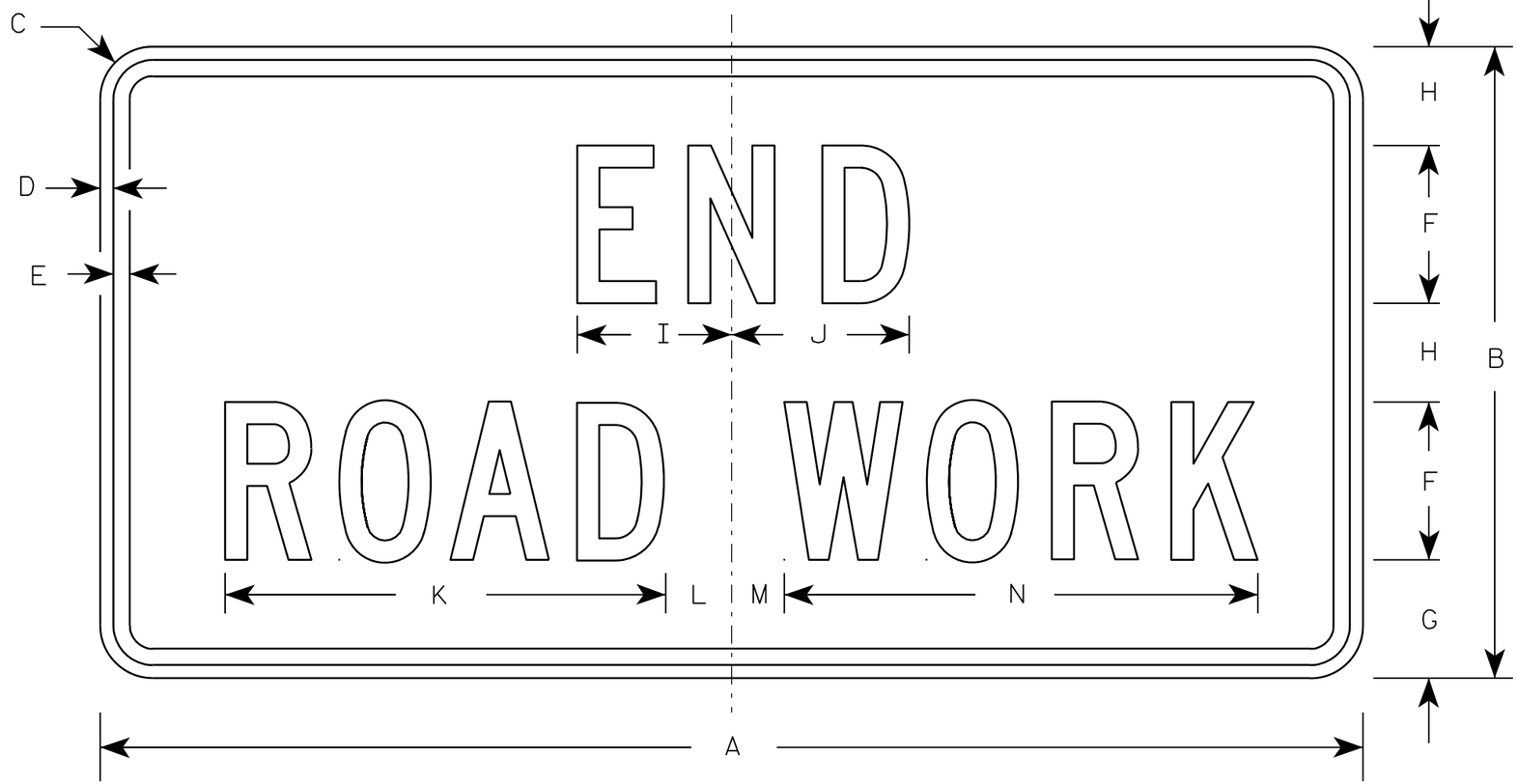
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/10/2011 PLATE NO. D4-5A.2

PROJECT NO:

SHEET NO: 62 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: 63	E

FILE NAME : C:\Users\PROJECTS\tr_stdplate\G202A.DGN PLOT DATE : 30-SEP-2009 09:31 PLOT BY : ditjph PLOT NAME : PLOT SCALE : 5.561773:1.000000

WISDOT/CADDS SHEET 42

7

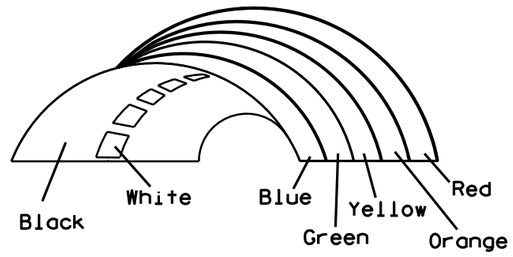
7

* VARIES

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 - (See Note 5)
3. Message Series - (See Note 6)
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. Border - Blue
   Line 1 - Red
   Line 2 - Black
   Line 3-5 - Blue
6. Line 1 - Dutch 8011L
   Line 2 - Series E
   Line 3-5 - Series C
7. Contractor shall provide and install a new post bracket in accordance with the I55-56B sign detail.

Background Colors of Symbol*



*1/4" Black Border between each color of rainbow and border of rainbow

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	30	36	1 1/2	1/2	5/8	3	2	3 1/2	2 7/8	1	8	2 1/8	11 1/4	11 1/8	9 3/8	1 1/4		3/4	12 5/8	7 1/2							7.5
3																											
4																											
5																											

STANDARD SIGN
I55-56

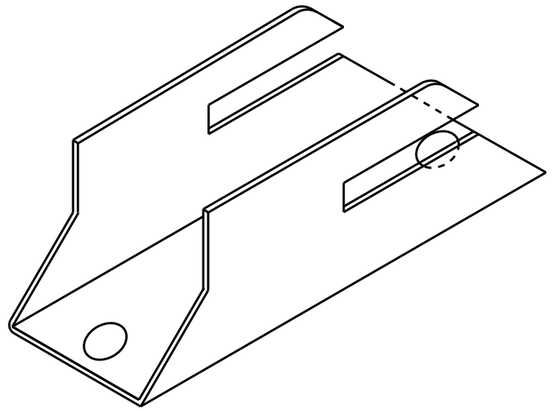
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

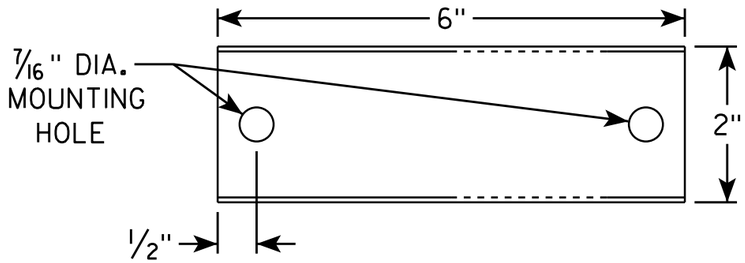
DATE 4/27/11 PLATE NO. 155-56.3

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 64

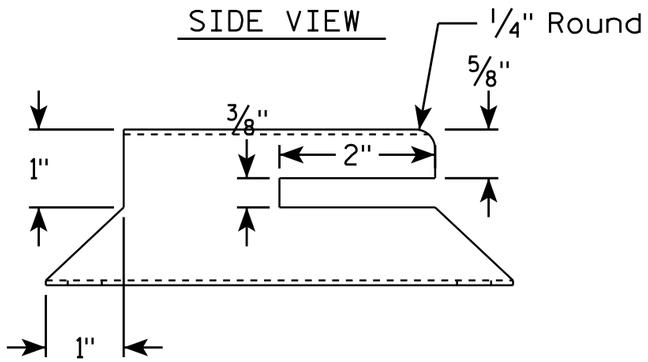
ISOMETRIC VIEW



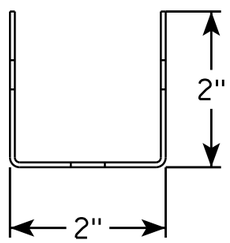
TOP VIEW



SIDE VIEW



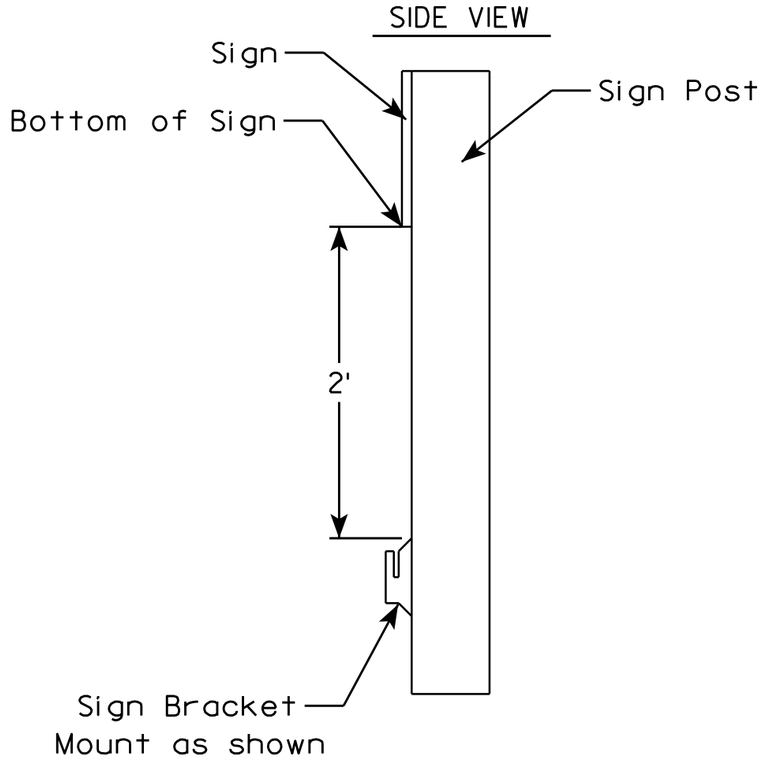
END VIEW



NOTES

1. Must be capable of permanent attachment to a wood or steel channel sign post utilizing the fastening hardware specified on the A4-8 sign plate.
2. Shall be entirely primed and painted with two coats of a black powder coated enamel paint.
3. Shall be made with 12 gauge steel, and incorporate no welds, no hinged components, no threaded lock-type components, and no parts which are loose or can be separated from the main body.
4. Shall have rounded edges with at least 1/8" radii.
5. Shall not have unrounded and uncoated metal edges which can contact the back surface of the roll-up sign.
6. Top of bracket shall be mounted 2' below the bottom of the I55-56 sign.
7. Cost of bracket and fastening hardware shall be incidental to the I55-56 sign.

SIDE VIEW



ROLLUP SIGN BRACKET
I55-56B

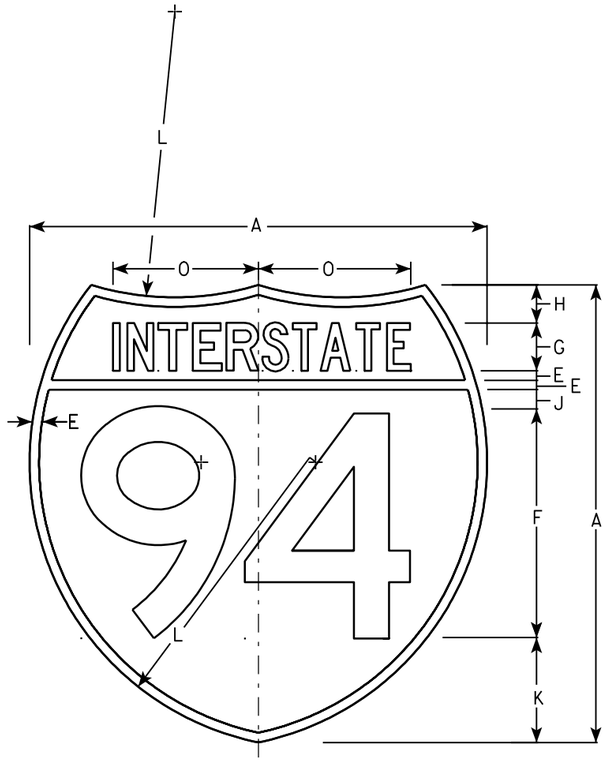
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

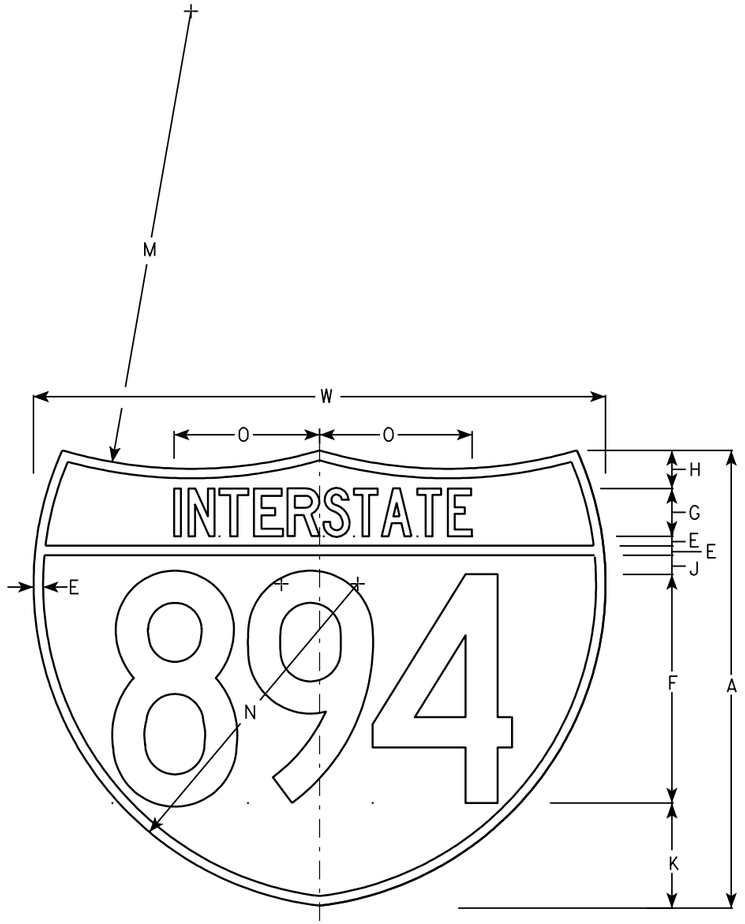
DATE 4/26/16 PLATE I55-56B.2

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\I5556B.DGN PLOT DATE : 26-APR-2016 17:29 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 1.945842:1.000000
WISDOT/CADDS SHEET 42



M1-1



M1-1A

NOTES

1. Sign is Type II - See Note 6 - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Top Red - Bottom Blue (See Note 6)
   Message - White - See Note 6
3. Message Series - See note 5
4. Substitute appropriate numerals & ajust spacing as per plate A10-1.
5. M1-1 - Numerals - D
   Interstate - C
   M1-1A - All copy - C
6. Permanent Signs
   Message - Type H Reflective
   Detour or other temporary signs
   Background - Reflective
   Message - Reflective

Metric equivalent for these signs are:

SIZE	M1-1	SIZE	M1-1A
1			
2	600 mm X 600 mm	2	600 mm X 750 mm
3	900 mm X 900 mm	3	900 mm X 1125 mm
4	900 mm X 900 mm	4	900 mm X 1125 mm
5	900 mm X 900 mm	5	900 mm X 1125 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	M1-1 Area sq. ft.	M1-1A Area sq. ft.	M1-1 Area m2	M1-1A Area m2
1																													
2	24				1/2	12	2 1/2	2		1	5 1/2	15	24	17	7 7/8								30			3.13	3.91	.36	.46
3	36				3/4	18	3 3/4	3		1 1/2	8 1/4	22 1/2	36	25 1/2	11 3/4								45			7.03	8.79	.81	1.05
4	36				3/4	18	3 3/4	3		1 1/2	8 1/4	22 1/2	36	25 1/2	11 3/4								45			7.03	8.79	.81	1.05
5	36				3/4	18	3 3/4	3		1 1/2	8 1/4	22 1/2	36	25 1/2	11 3/4								45			7.03	8.79	.81	1.05

INTERSTATE ROUTE MARKER
M1-1 FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

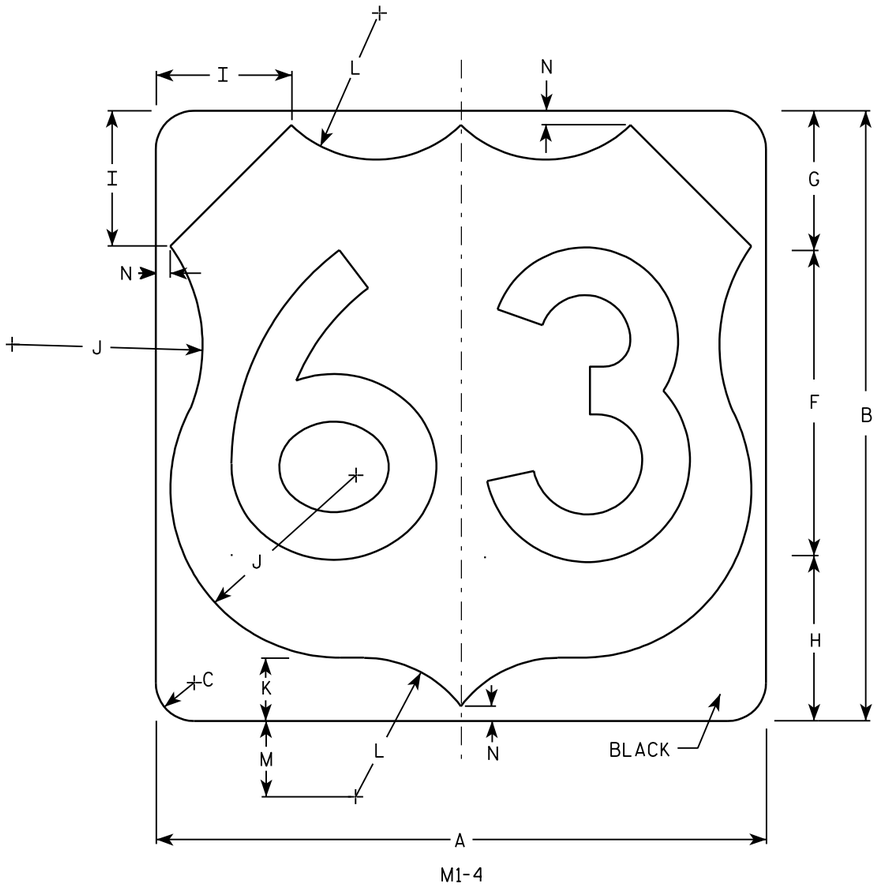
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 08/23/05 PLATE NO. M1-1.8

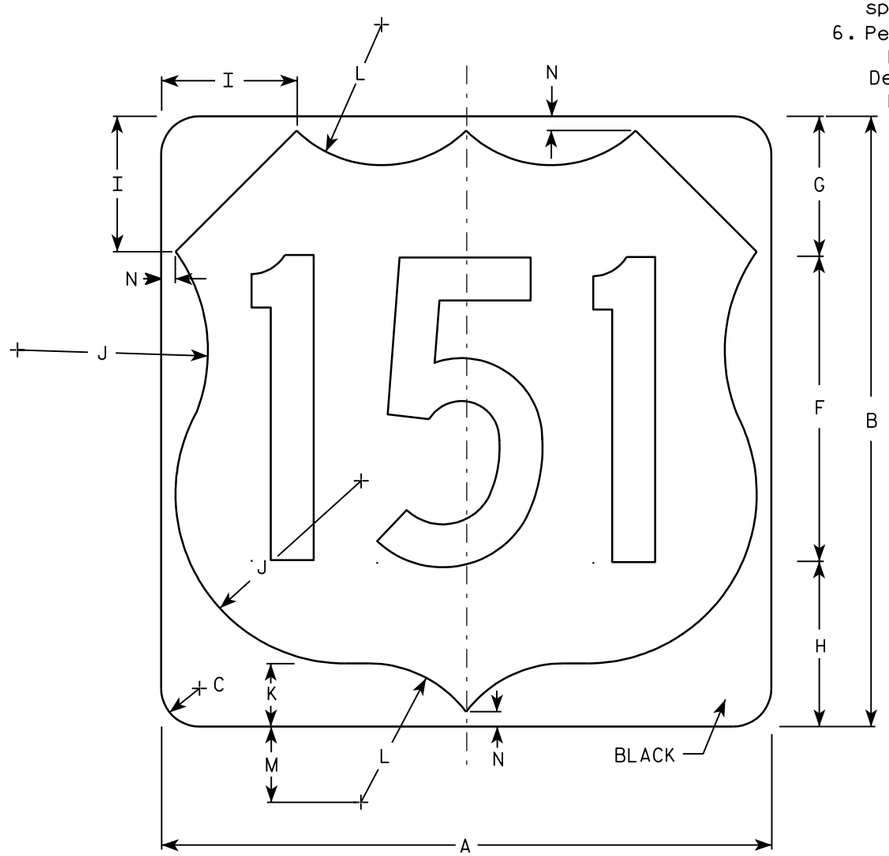
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 66	E

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 numerals and adjust spacing as per Plate A10-1.
6. Permanent Signs
   Background - Type H Reflective
   Detour or other temporary signs
   Background - Reflective



M1-4



M1-4

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	24	1 1/2			12	5 1/2	6 1/2	5	7 1/2	2 1/2	5 1/2	3	1/2													4.0	.36
3	36	36	2 1/4			18	8 1/4	9 1/4	7 1/4	11 1/4	3 3/4	8 1/4	4 1/2	3/4													9.0	.81
4	36	36	2 1/4			18	8 1/4	9 1/4	7 1/4	11 1/4	3 3/4	8 1/4	4 1/2	3/4													9.0	.81
5	36	36	2 1/4			18	8 1/4	9 1/4	7 1/4	11 1/4	3 3/4	8 1/4	4 1/2	3/4													9.0	.81

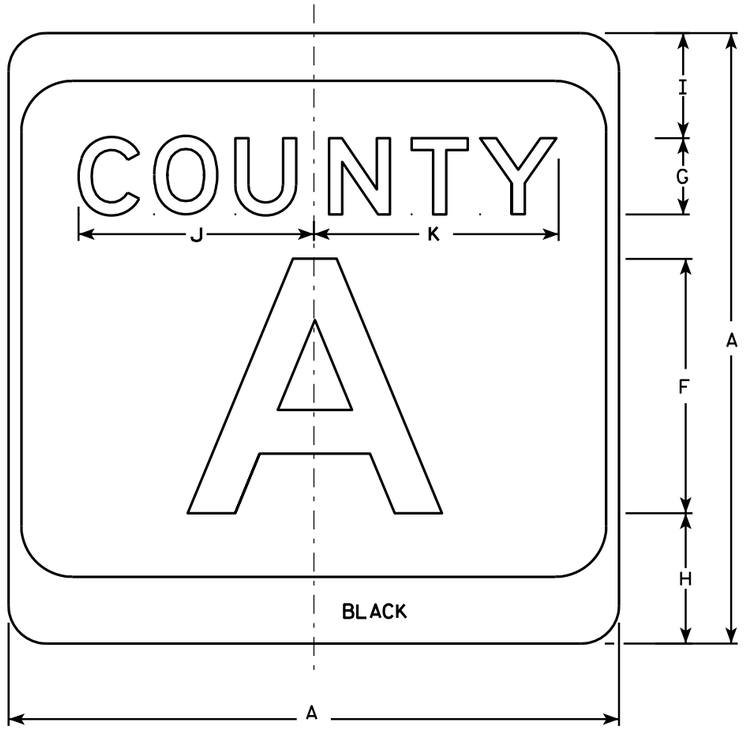
USH MARKER
M1-4 FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

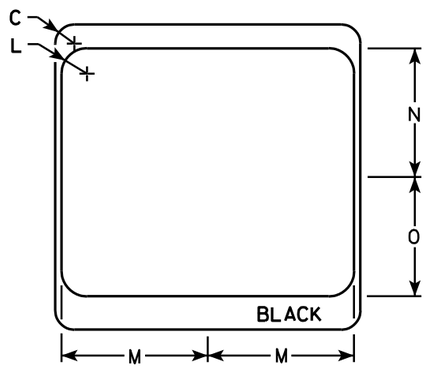
APPROVED Matthew R Rauch
for State Traffic Engineer

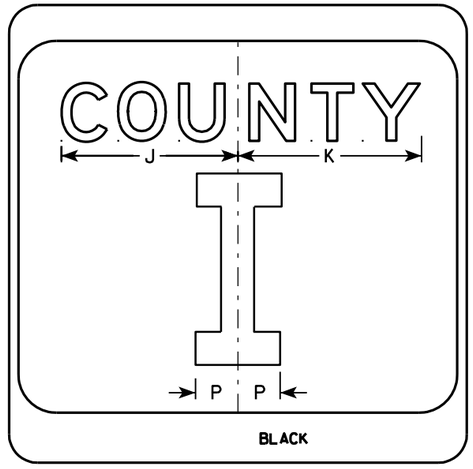
DATE 08/25/05 PLATE NO. M1-4.9

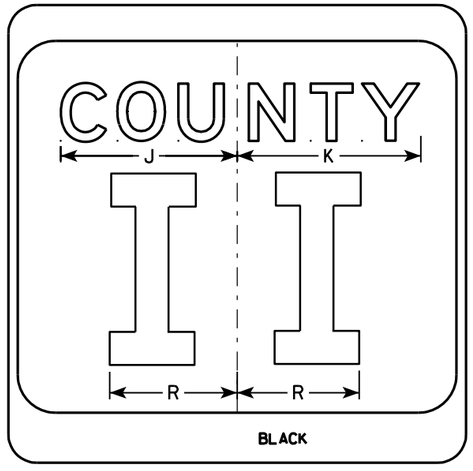
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 67 | E



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

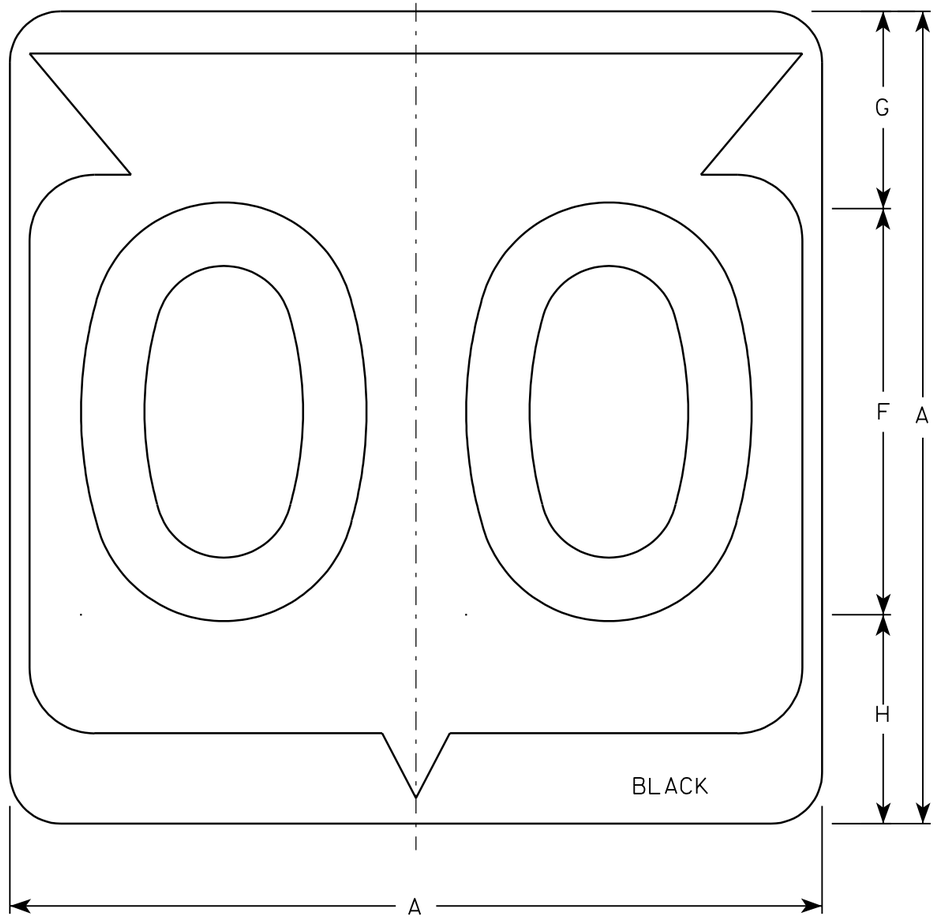
CTH MARKER
M1-5A FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

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

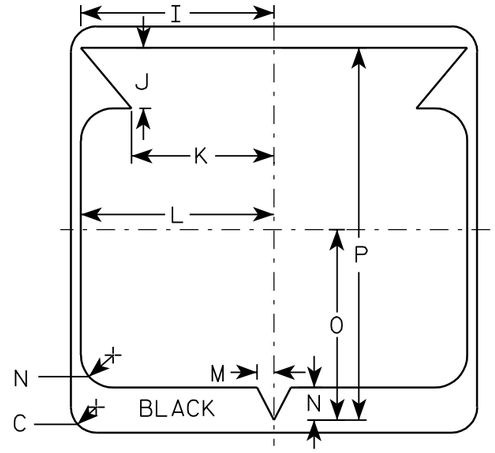
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 68	E



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

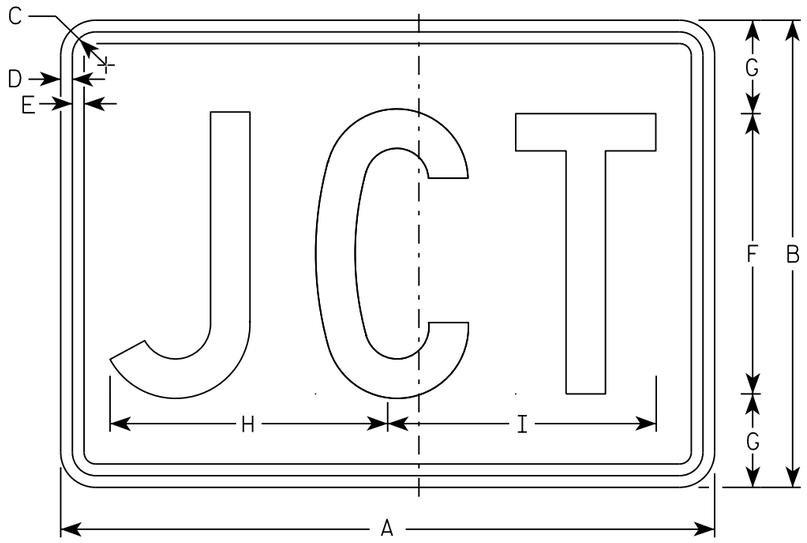
STATE ROUTE MARKER M1-6 FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

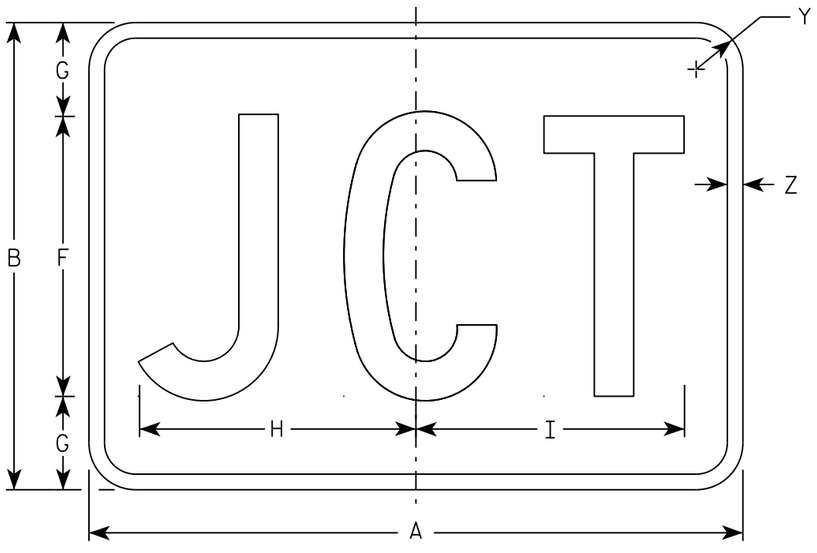
APPROVED Chester J Spang for State Traffic Engineer

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

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 69	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

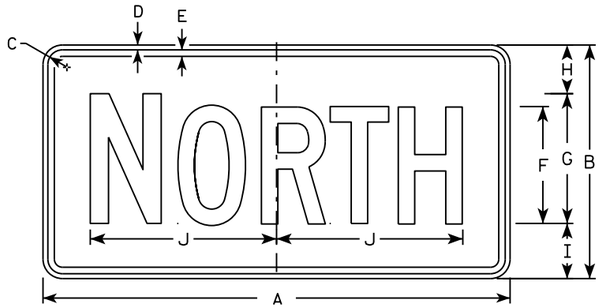
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

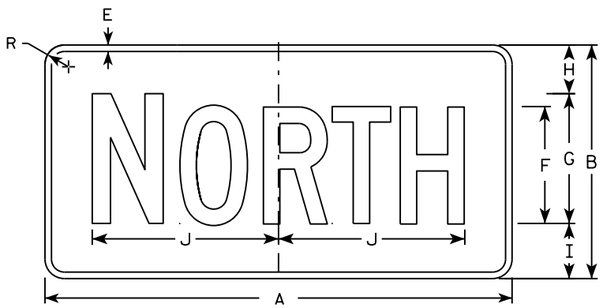
DATE 10/15/15 PLATE 70 12-1.12

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\M21.DGN PLOT DATE : 01-DEC-2015 17:54 PLOT BY : $$ plotuser $$ PLOT NAME : PLOT SCALE : 4.864603:1.000000



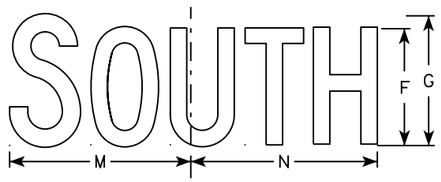
M3-1
MM3-1
MP3-1



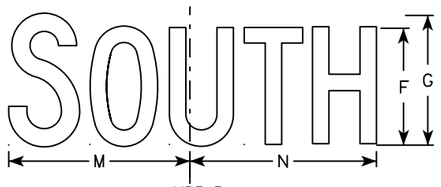
MB3-1
MK3-1
MN3-1

M3-2
MM3-2
MP3-2

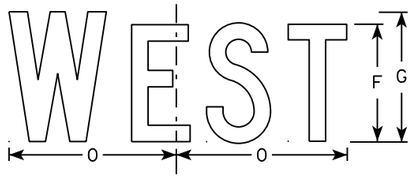
MB3-2
MK3-2
MN3-2



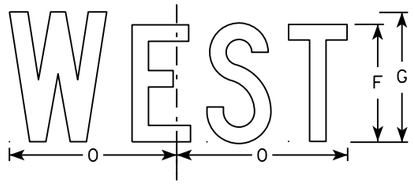
M3-3
MM3-3
MP3-3



MB3-3
MK3-3
MN3-3



M3-4
MM3-4
MP3-4



MB3-4
MK3-4
MN3-4

NOTES

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

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

STANDARD SIGNS
M3-1 thur M3-4
SERIES

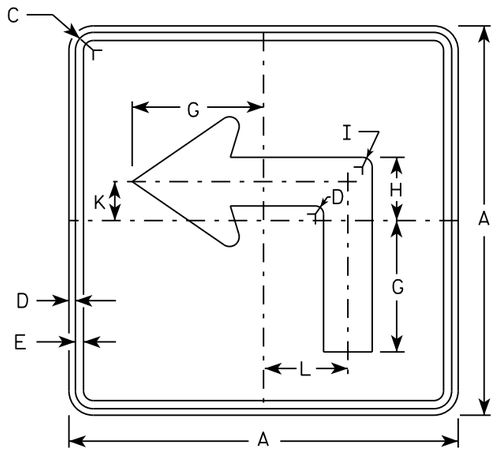
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew P Rauch for State Traffic Engineer

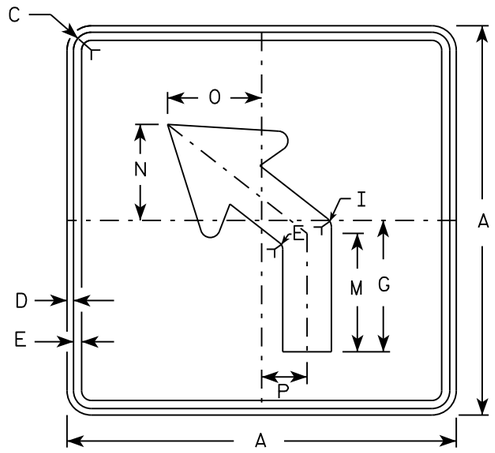
DATE 10/15/15 PLATE NO M3-1.14

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

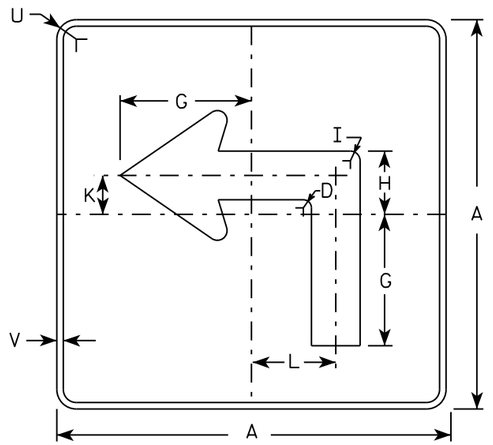
FILE NAME : C:\CAEfiles\Projects\tr_stdplate\M31.DGN PLOT DATE : 01-DEC-2015 17:54 PLOT BY : $$ plotuser $$ PLOT NAME : PLOT SCALE : 11.675051:1.000000



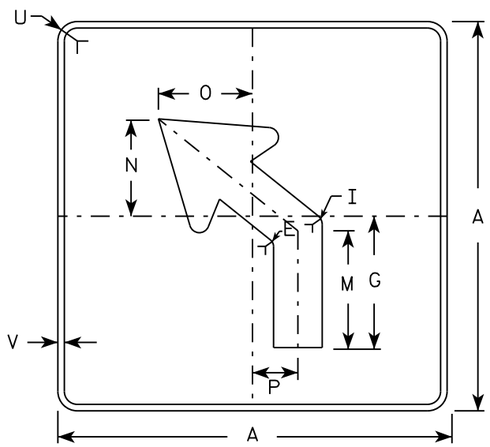
M5-1L
MM5-1L
MO5-1L
MP5-1L



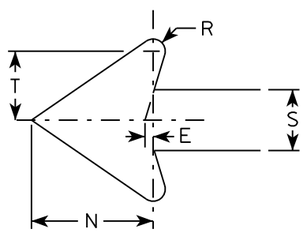
M5-2L
MM5-2L
MO5-2L
MP5-2L



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



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



NOTES

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

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

STANDARD SIGN
M5-1 & M5-2

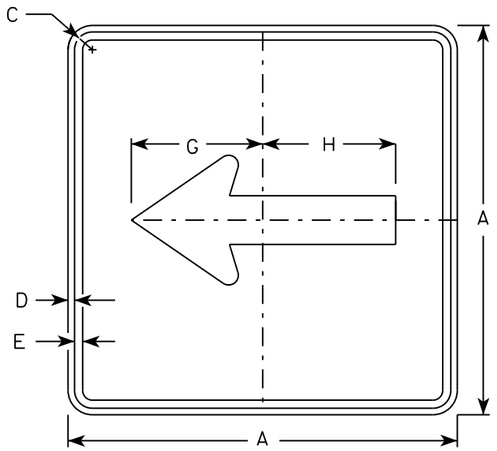
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

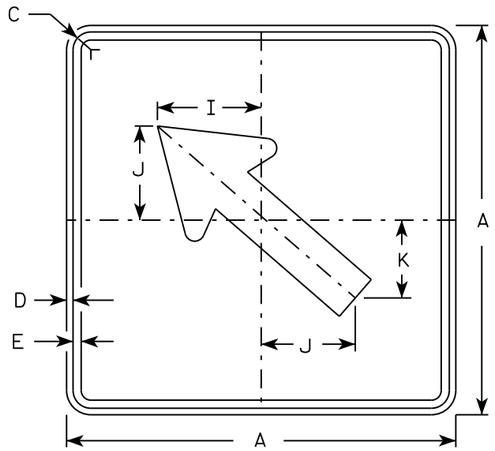
DATE 10/15/15 PLATE NO. M5-1.13

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

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



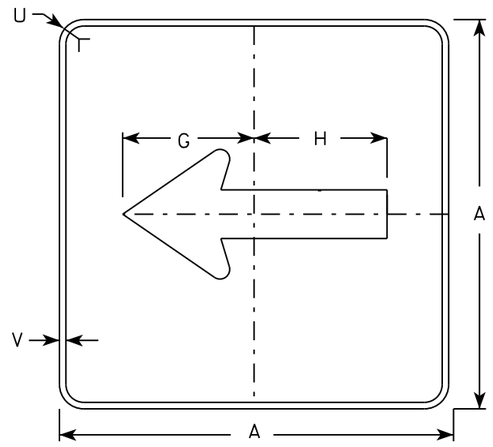
M6-1
MM6-1
MO6-1
MP6-1



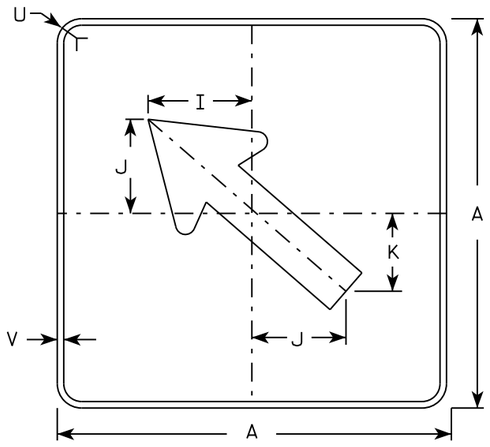
M6-2
MM6-2
MO6-2
MP6-2

NOTES

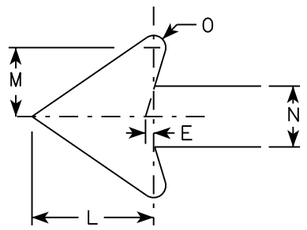
1. Signs are Type II - Type H except as Shown
2. Color:
   Background - See note 4
   Message - See note 4
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. M6-1 and M6-2 Background - 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

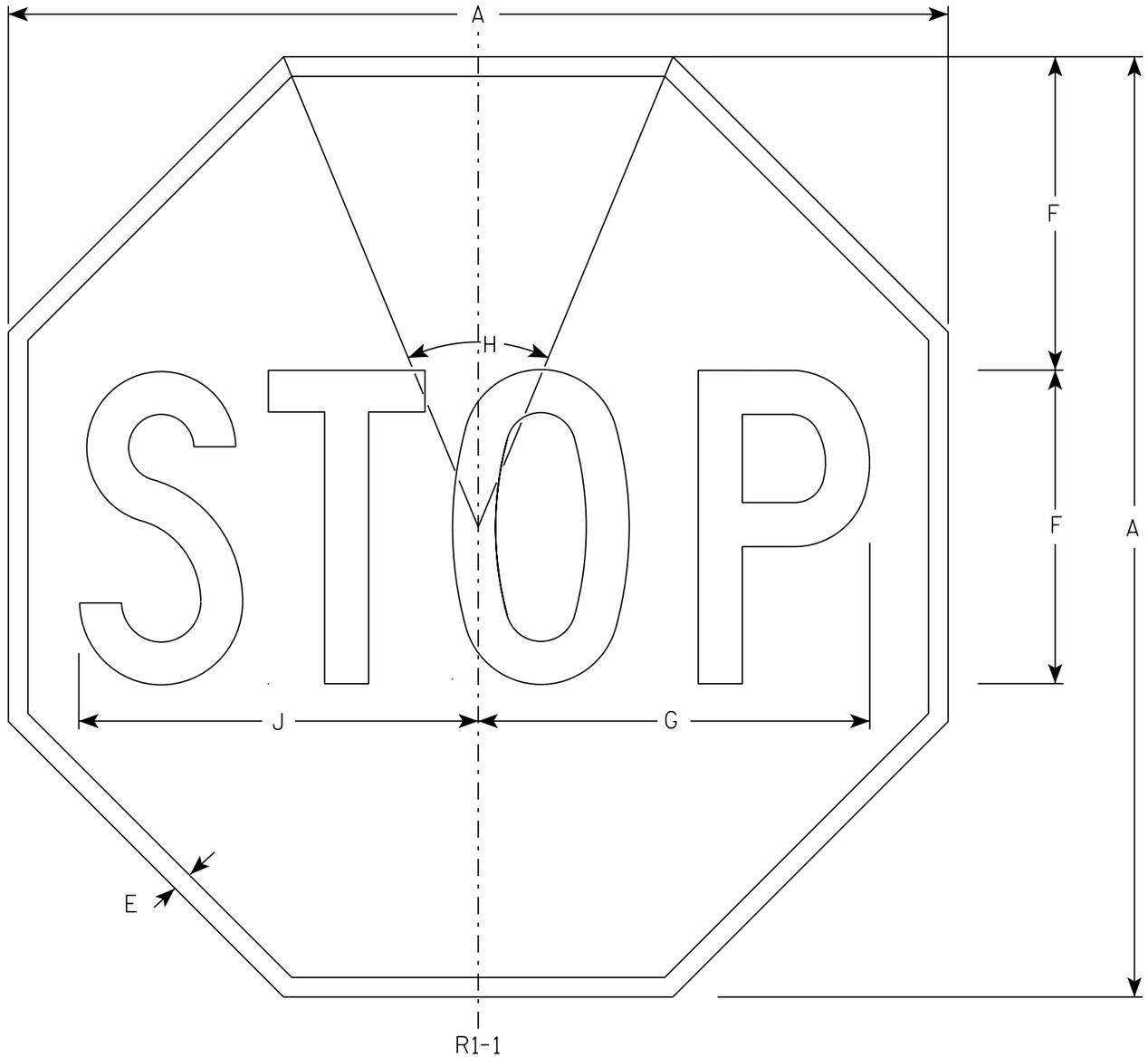
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 10/15/15 PLATE 73 M6-1.15

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\M61.DGN PLOT DATE : 01-DEC-2015 17:57 PLOT BY : $$ plotuser $$ PLOT NAME : PLOT SCALE : 11.675051:1.000000



R1-1

NOTES

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

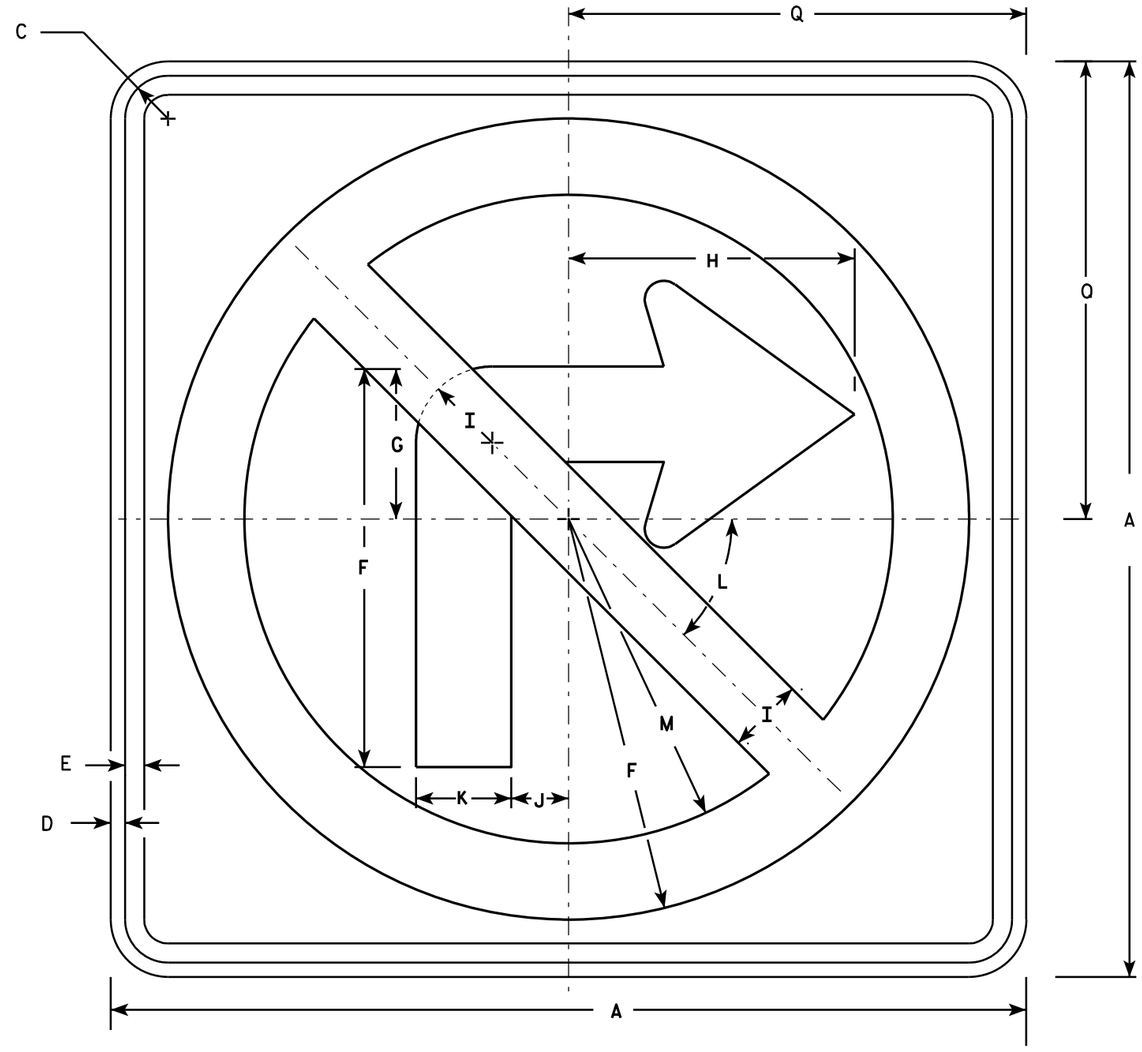
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/12/15 PLATE 74 R1-1.13

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

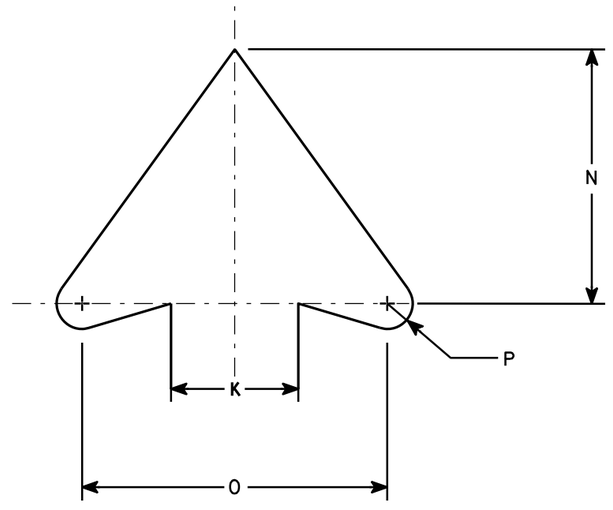
FILE NAME : C:\CAEfiles\Projects\tr_stdplate\R11.DGN PLOT DATE : 01-DEC-2015 18:07 PLOT BY : $$ plotuser $$ PLOT NAME : PLOT SCALE : 4.378143:1.000000



R3-1

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 - 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. Border & Arrow are non reflective black, the circle with diagonal bar is reflective red.



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	24		1 1/8	3/8	1/2	10 1/2	4	7 1/2	2	1 1/2	2 1/2	45	8 1/2	5	6	1/2	12										4.0
2S	24		1 1/8	3/8	1/2	10 1/2	4	7 1/2	2	1 1/2	2 1/2	45°	8 1/2	5	6	1/2	12										4.0
2M	36		1 5/8	5/8	3/4	15 3/4	6	11 1/4	3	2 1/4	3 3/4	45	12 3/4	7 1/2	9	3/4	18										9.0
3	36		1 5/8	5/8	3/4	15 3/4	6	11 1/4	3	2 1/4	3 3/4	45	12 3/4	7 1/2	9	3/4	18										9.0
4	36		1 5/8	5/8	3/4	15 3/4	6	11 1/4	3	2 1/4	3 3/4	45°	12 3/4	7 1/2	9	3/4	18										9.0
5	48		2 1/4	3/4	1	21	8	15	4	3	5	45°	17	10	12	1	24										16.0

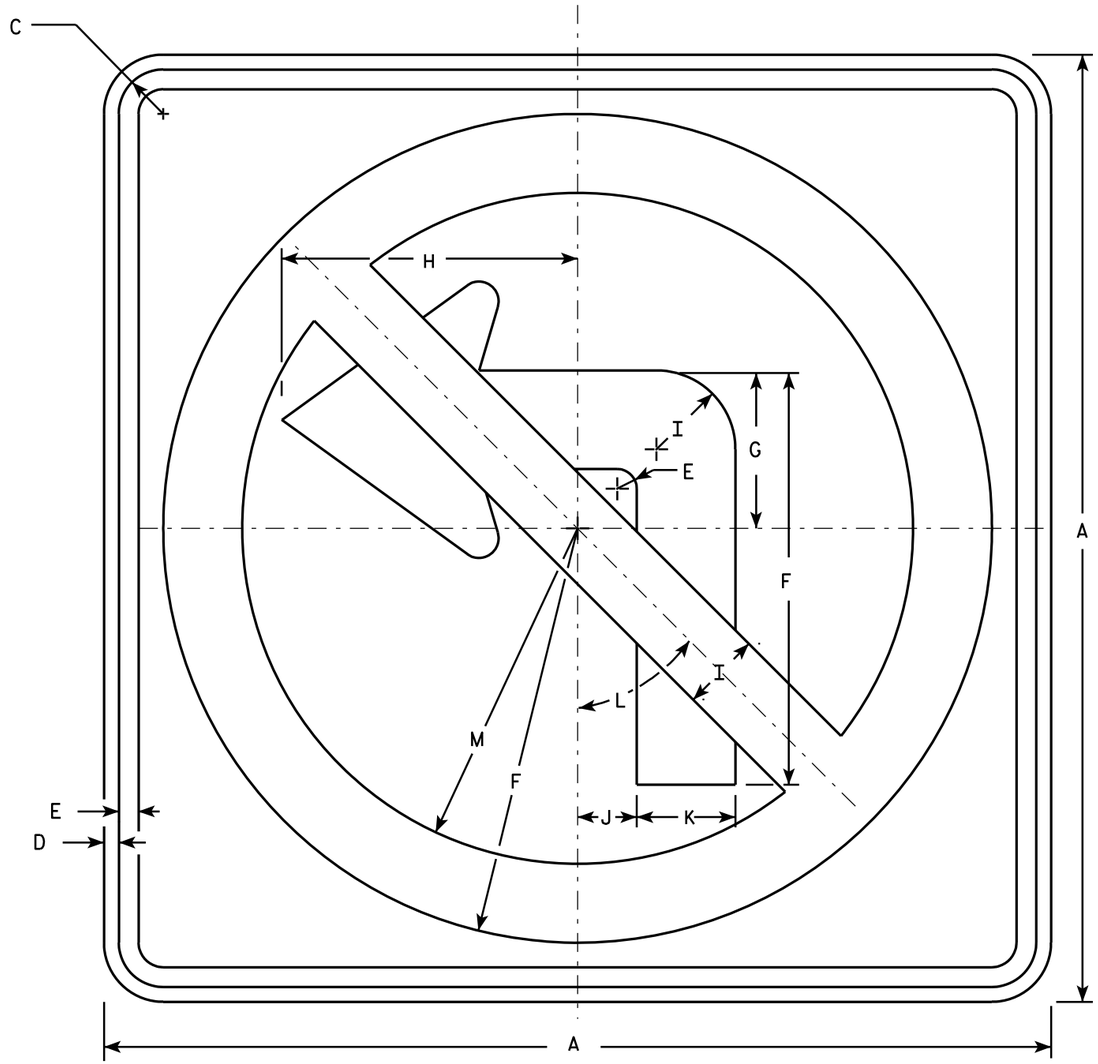
STANDARD SIGN
R3-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/08/10 PLATE NO. R3-1.5

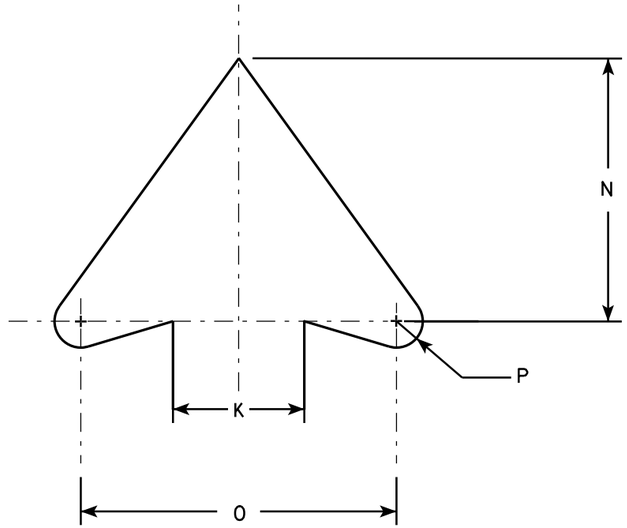
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 75	E



R3-2

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 - 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. Border & Arrow are non reflective black, the circle with diagonal bar is reflective red.



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	24		1 1/8	3/8	1/2	10 1/2	4	7 1/2	2	1 1/2	2 1/2	45°	8 1/2	5	6	1/2											4.0
2S	24		1 1/8	3/8	1/2	10 1/2	4	7 1/2	2	1 1/2	2 1/2	45°	8 1/2	5	6	1/2											4.0
2M	36		1 5/8	5/8	3/4	15 3/4	6	11 1/4	3	2 1/4	3 3/4	45°	12 3/4	7 1/2	9	3/4											9.0
3	36		1 5/8	5/8	3/4	15 3/4	6	11 1/4	3	2 1/4	3 3/4	45°	12 3/4	7 1/2	9	3/4											9.0
4	36		1 5/8	5/8	3/4	15 3/4	6	11 1/4	3	2 1/4	3 3/4	45°	12 3/4	7 1/2	9	3/4											9.0
5	48		2 1/4	3/4	1	21	8	15	4	3	5	45°	17	10	12	1											16.0

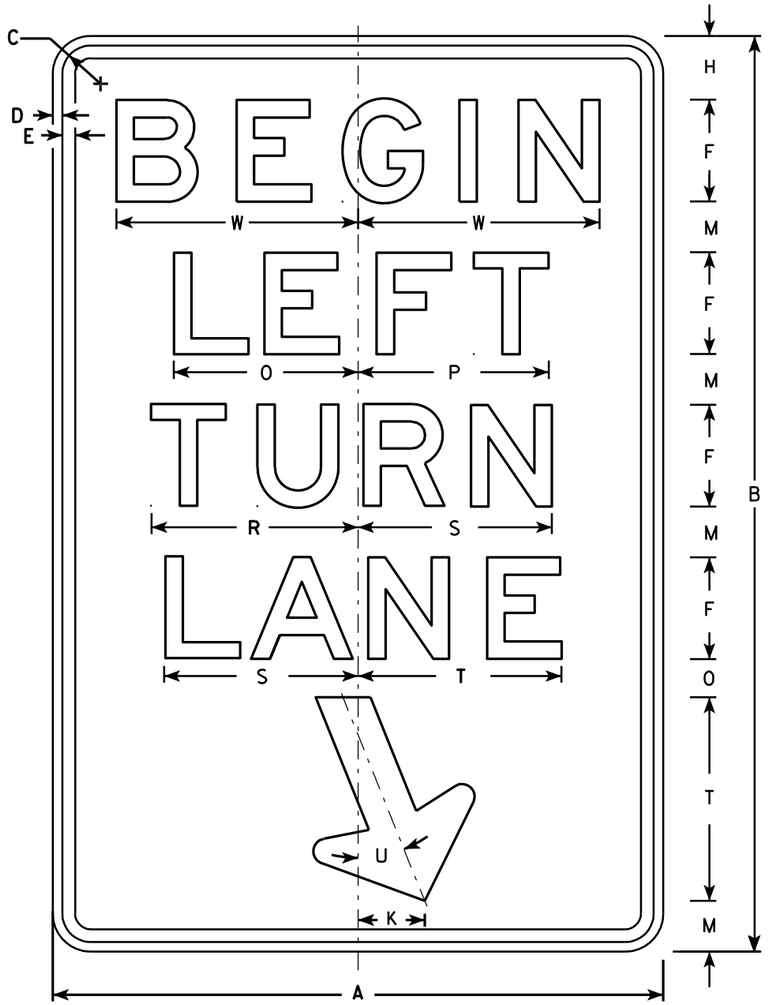
STANDARD SIGN
R3-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/08/10 PLATE NO. R3-2.10

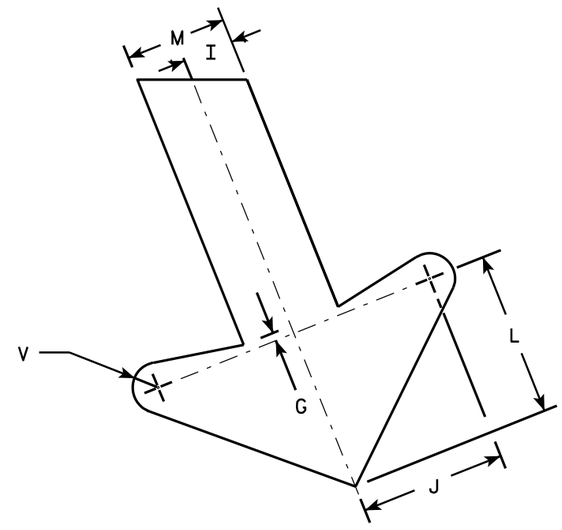
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 76	E



R3-20L

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.



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	24	36	1 1/8	3/8	1/2	4	1/4	2 1/2	1	2 7/8	2 5/8	3 1/4	2	1 1/2	7 1/4	7 1/2		8 1/8	7 5/8	8	22°	1/2	9 1/2				6.0
2M	24	36	1 1/8	3/8	1/2	4	1/4	2 1/2	1	2 7/8	2 5/8	3 1/4	2	1 1/2	7 1/4	7 1/2		8 1/8	7 5/8	8	22°	1/2	9 1/2				6.0
3	36	54	1 3/4	1/2	5/8	6	3/8	3 3/4	1 1/2	4 1/4	4	4 7/8	3	2 1/4	10 7/8	11 1/4		12 1/4	11 1/2	12	22°	3/4	13 1/4				13.5
4																											
5																											

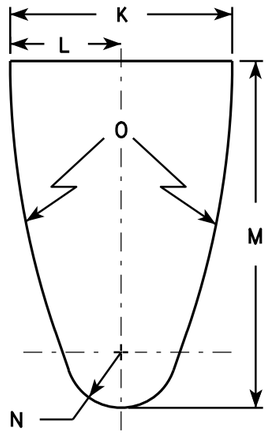
STANDARD SIGN
R3-20L

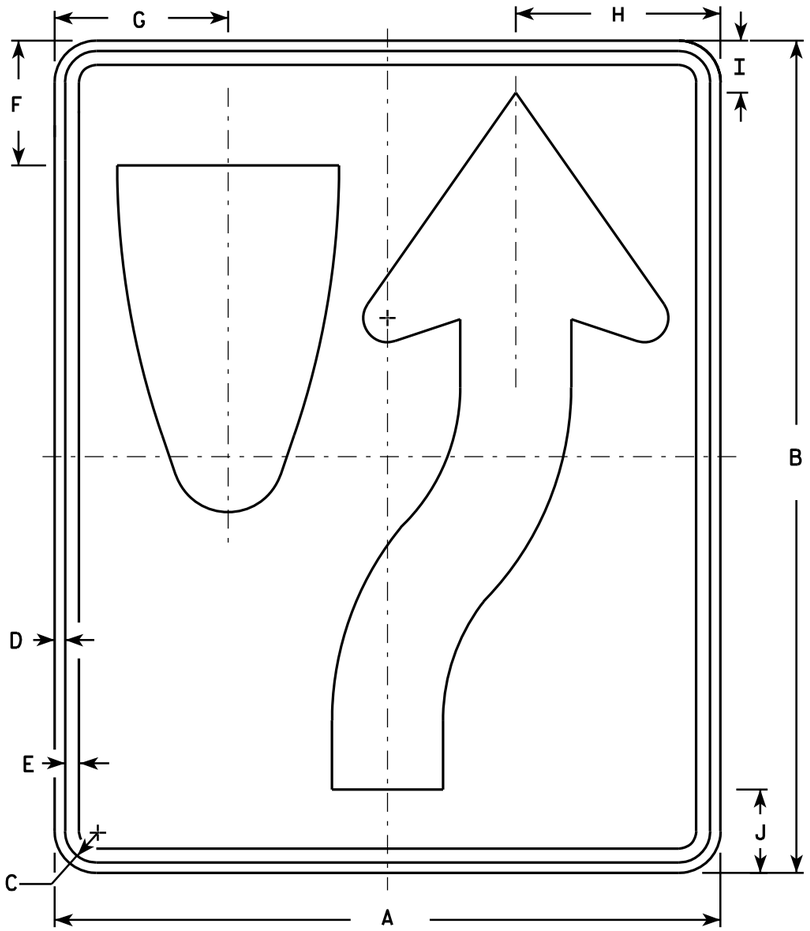
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 10/18/10 PLATE NO. R3-20L.7

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 77 | E

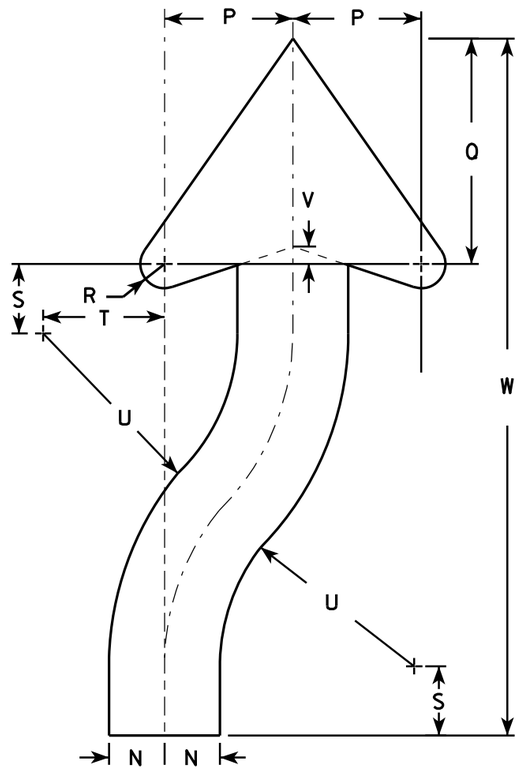




R4-7

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition. material is plywood but borders shall be rounded
2. Color:
   Background - White
   Message - Black
3. Corners may be square or rounded when base as shown. When base material is metal, the corners and borders shall be rounded.
4. R4-8 is the same as R4-7 except Legend is reversed.



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	18	24	1 1/8	3/8	1/2	3 3/8	4 3/4	5 1/2	1 3/8	2 1/4	6	3	9 3/8	1 1/2	22 1/2	3 1/2	6 1/8	5/8	1 7/8	3 1/4	6 3/4	1/2	20 3/8				3.0
2S	24	30	1 1/8	3/8	1/2	4 1/2	6 1/4	7 3/8	1 7/8	3	8	4	12 1/2	2	30	4 5/8	8 1/8	7/8	2 1/2	4 3/8	9	5/8	25 1/8				5.0
2M	24	30	1 1/8	3/8	1/2	4 1/2	6 1/4	7 3/8	1 7/8	3	8	4	12 1/2	2	30	4 5/8	8 1/8	7/8	2 1/2	4 3/8	9	5/8	25 1/8				5.0
3	36	48	1 3/4	1/2	5/8	6 3/4	9 3/8	11 1/8	2 7/8	4 1/2	12	6	18 3/4	3	45	6 7/8	12 1/4	1 1/4	3 3/4	6 5/8	13 1/2	1	40 3/4				12.0
4	36	48	1 3/4	1/2	5/8	6 3/4	9 3/8	11 1/8	2 7/8	4 1/2	12	6	18 3/4	3	45	6 7/8	12 1/4	1 1/4	3 3/4	6 5/8	13 1/2	1	40 3/4				12.0
5	48	60	2 1/4	3/4	1	9	12 1/2	14 3/4	3 3/4	6	16	8	25	4	60	9 1/4	16 1/4	1 5/8	5	8 3/4	18	1 1/4	50 1/4				20.0

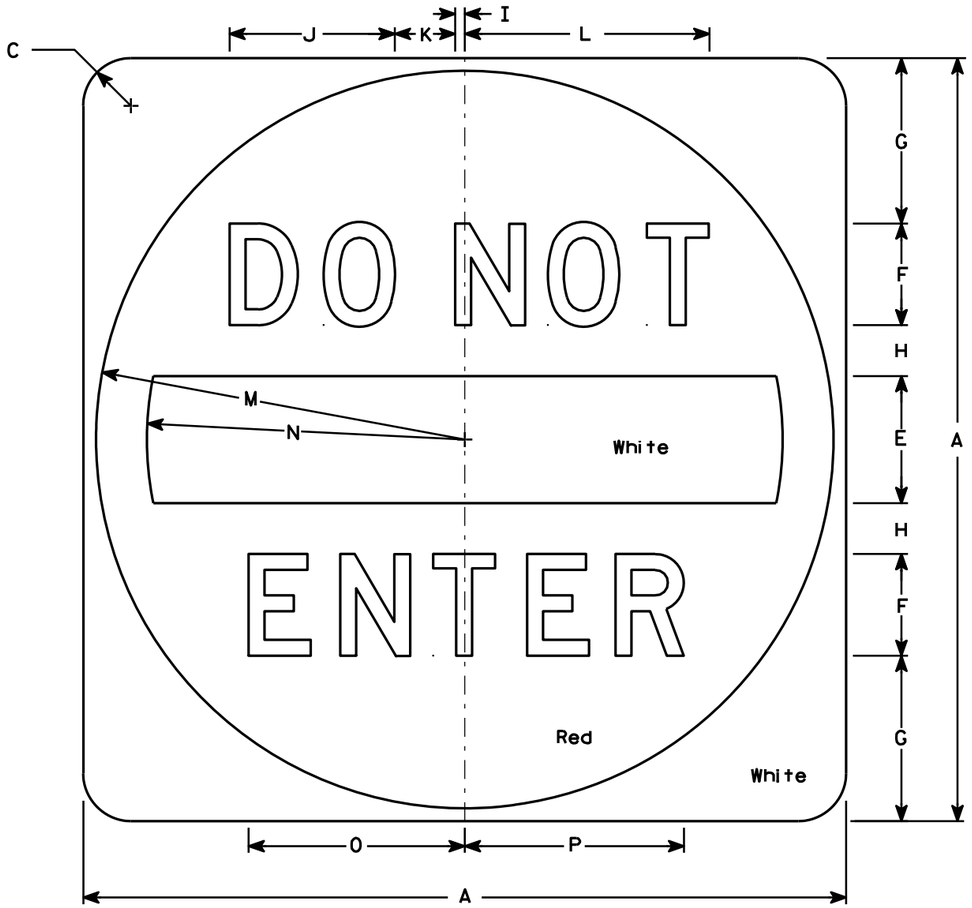
STANDARD SIGN
R4-7 & R4-8

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch for State Traffic Engineer

DATE 3/25/2011 PLATE NO. R4-7.8

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 78	E



R5-1

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - See detail
   Message - White - Type H Reflective
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but when base material is metal, the cornors 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	30		1 7/8		5	4	6 1/2	2	3/8	6 1/2	2 3/8	9 5/8	14 1/2	12 1/2	8 1/2	8 5/8											6.26
2M	36		2 1/4		6	5	7 1/2	2 1/2	1/2	8 1/8	3	12 1/8	17 1/2	15	10 5/8	10 3/4											9.0
3	36		2 1/4		6	5	7 1/2	2 1/2	1/2	8 1/8	3	12 1/8	17 1/2	15	10 5/8	10 3/4											9.0
4	36		2 1/4		6	5	7 1/2	2 1/2	1/2	8 1/8	3	12 1/8	17 1/2	15	10 5/8	10 3/4											9.0
5	48		3		8	6	11	3	5/8	9 3/4	3 5/8	14 1/2	23 1/2	20	12 3/4	12 7/8											16.0

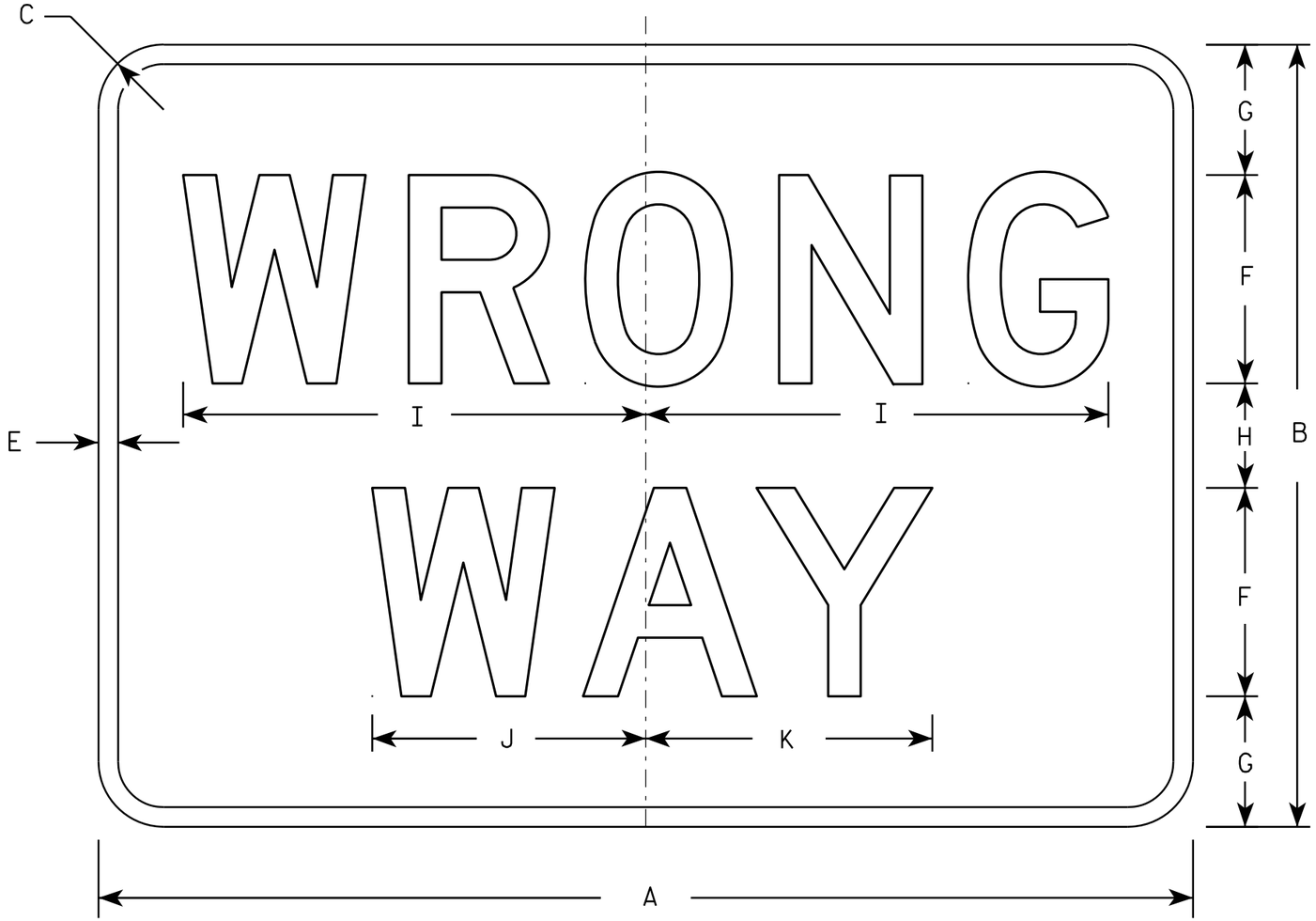
STANDARD SIGN
R5-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/17/10 PLATE NO. R5-1.15

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 79 | E



R5-1A

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 - 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	30	18	1 1/2		1/2	5	3	2	11	6 1/2	6 7/8																3.75
2S	36	24	2		5/8	6	4 1/2	3	13 1/4	7 7/8	8 1/4																6.00
2M	42	30	2 1/2		3/4	8	5	4	17 3/4	10 1/2	11																8.75
3	42	30	2 1/2		3/4	8	5	4	17 3/4	10 1/2	11																8.75
4	42	30	2 1/2		3/4	8	5	4	17 3/4	10 1/2	11																8.75
5	42	30	2 1/2		3/4	8	5	4	17 3/4	10 1/2	11																8.75

STANDARD SIGN
R5-1A

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/17/10 PLATE NO. R5-1A.2

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 80 | E

R5-57

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 - Lines 1, 2, and 5 are Series C.
   Lines 3 and 4 are 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																											
2S																											
2M																											
3																											
4	36		1 5/8	5/8	3/4	4	3	2	3 1/2	14 1/4	14 7/8	11	11 1/2	4 3/4	1 3/4	9		1 3/8	10	11	2 1/2	1 3/4	15 1/2	13	13 5/8		9.0
5	36		1 5/8	5/8	3/4	4	3	2	3 1/2	14 1/4	14 7/8	11	11 1/2	4 3/4	1 3/4	9		1 3/8	10	11	2 1/2	1 3/4	15 1/2	13	13 5/8		9.0

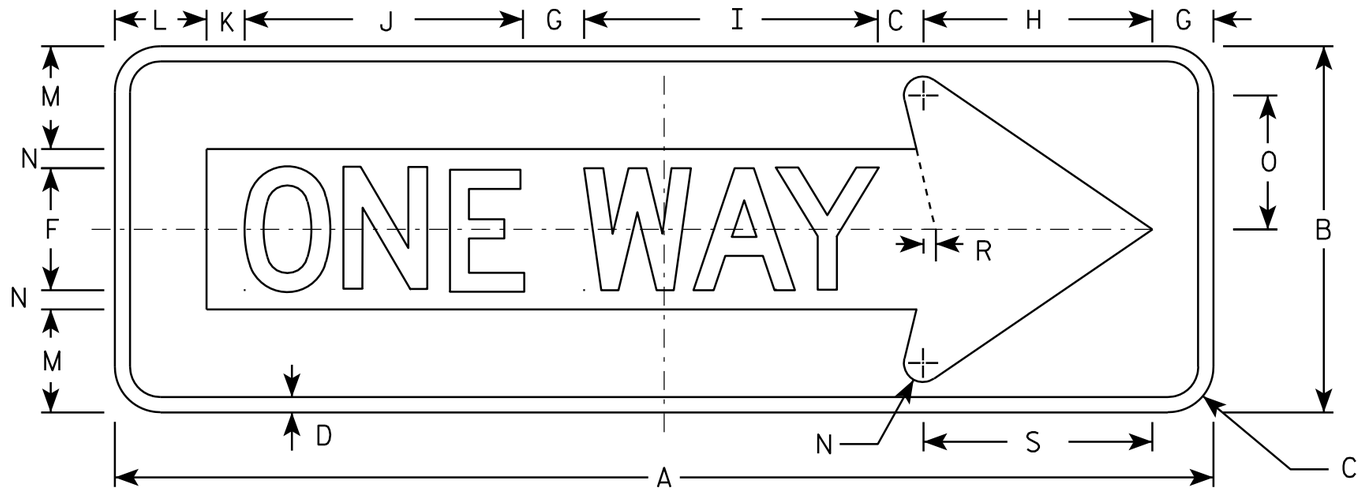
STANDARD SIGN
R5-57

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/29/2011 PLATE NO. R5-57.10

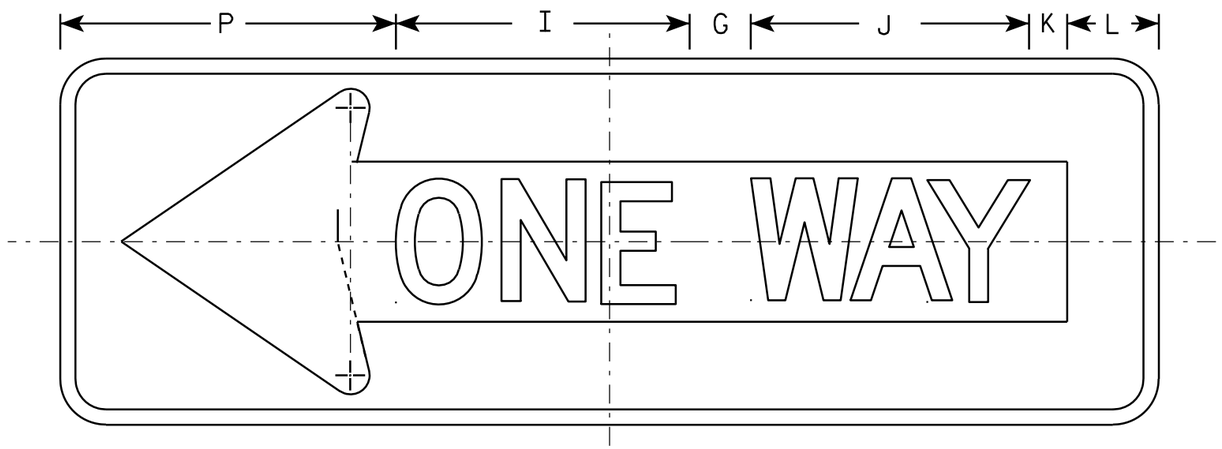
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 81	E



R6-1R

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - BLACK
   Message - BLACK LEGEND & WHITE ARROW & BORDER
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.



R6-1L

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	12	1 ½	½		4	2	7 ½	9 ⅝	9 ⅛	1 ¼	3	3 ⅜	⅝	4 ⅜	11		⅜	7 ½								3.0
2M	54	18	2 ¼	¾		6	3	11 ¼	14 ½	13 ⅝	1 ⅞	4 ½	5	1	6 ½	16 ½		⅝	11 ¼								6.75
3	54	18	2 ¼	¾		6	3	11 ¼	14 ½	13 ⅝	1 ⅞	4 ½	5	1	6 ½	16 ½		⅝	11 ¼								6.75
4	54	18	2 ¼	¾		6	3	11 ¼	14 ½	13 ⅝	1 ⅞	4 ½	5	1	6 ½	16 ½		⅝	11 ¼								6.75
5																											

STANDARD SIGN
R6-1 L & R

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/17/10 PLATE NO. R6-1.2

PROJECT NO:

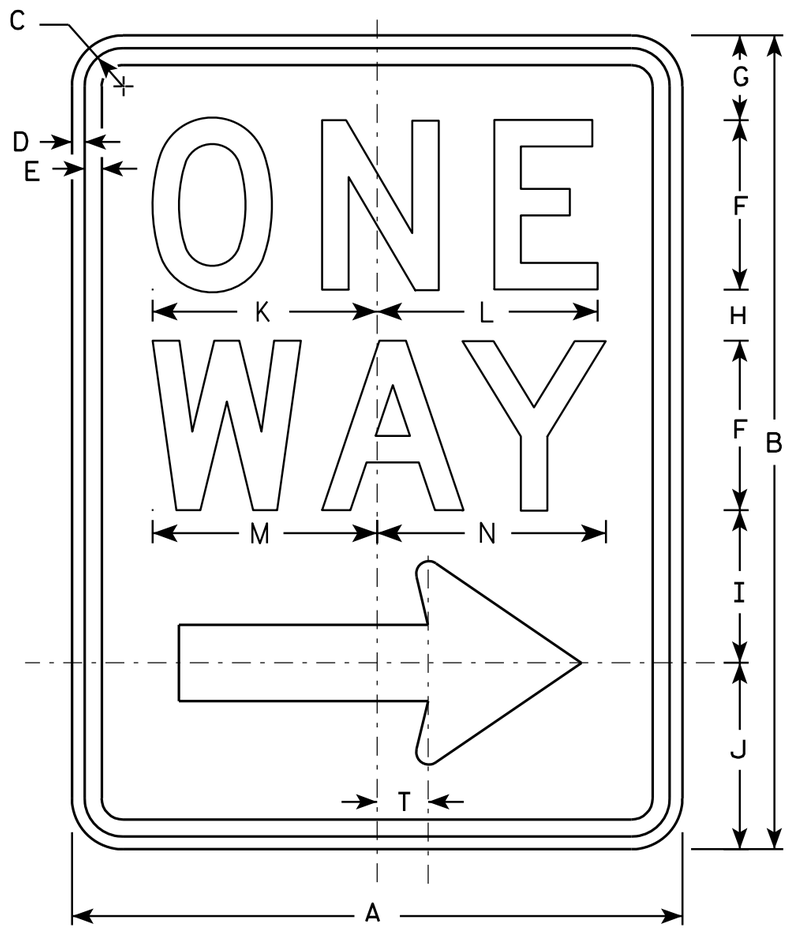
SHEET NO: 82 E

FILE NAME : C:\Users\PROJECTS\tr_stdplate\R61.DGN PLOT DATE : 17-DEC-2010 14:11 PLOT BY : dotsja

WISDOT/CADDS SHEET 42

7

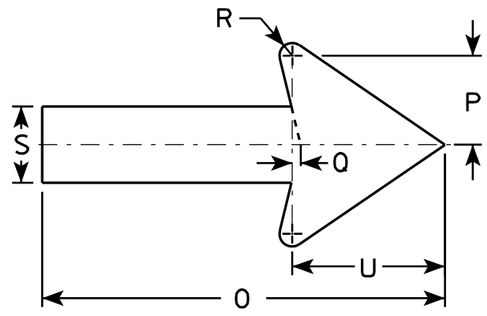
7



R6-2R

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 - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. R6-2L same as R6-2R except arrow points to the left.



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
1	18	24	1 1/8	3/8	1/2	5	2 1/2	1 1/2	4 1/2	5 1/2	6 5/8	6 1/2	6 5/8	6 3/4	11 7/8	2 5/8	1/4	3/8	2 1/4	1 1/2	4 1/2					
2S	24	30	1 1/8	3/8	1/2	6	3	2 1/2	5 1/2	7	8 1/8	8 1/8	8 1/2	8 5/8	16	3 1/2	3/8	1/2	3	2	6					
2M	30	36	1 3/8	1/2	5/8	8	2 1/2	2 5/8	6 7/8	8	10 1/2	10 1/2	11 1/4	11 1/4	20	4 3/8	1/2	5/8	3 3/4	2 1/2	7 1/2					
3	36	48	1 7/8	1/2	5/8	10	5 1/4	3 1/4	9	10 1/2	12 3/4	12 3/4	13 1/4	13 1/2	24	5 5/8	1/2	3/4	4 3/4	3	9					
4	36	48	1 7/8	1/2	5/8	10	5 1/4	3 1/4	9	10 1/2	12 3/4	12 3/4	13 1/4	13 1/2	24	5 5/8	1/2	3/4	4 3/4	3	9					
5																										

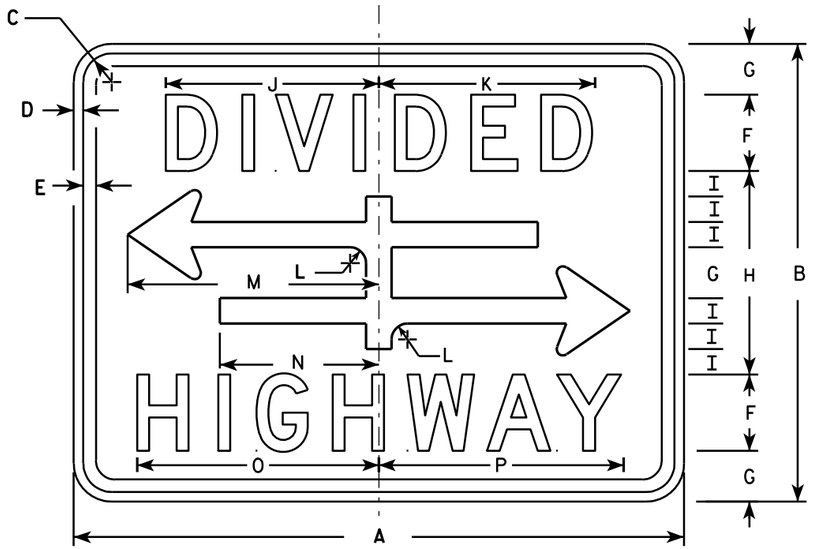
STANDARD SIGN
R6-2 R&L

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/2/10 PLATE NO. R6-2.8

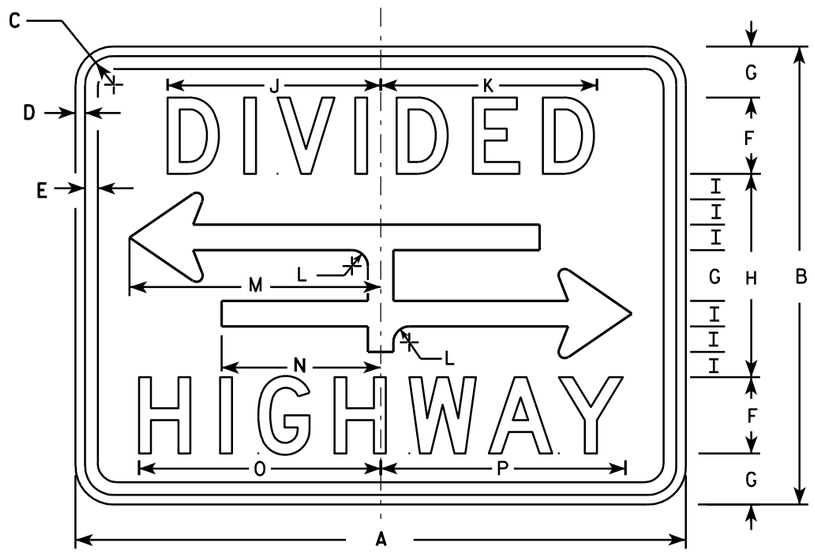
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 83	E



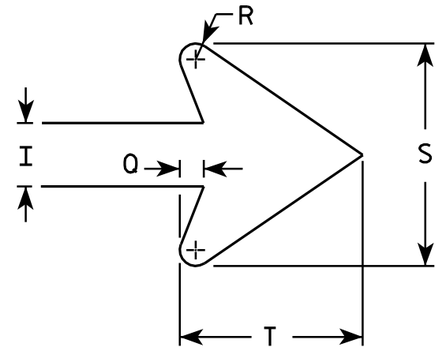
R6-3

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 - 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.



R6-3A



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	24	18	1 1/8	3/8	3/8	3	2	8	1	8 3/8	8 1/2	5/8	9 7/8	6 1/4	9 1/2	9 5/8	3/8	1/4	3 1/2	2 3/4							3.0
2S	30	24	1 1/8	3/8	1/2	4	2 5/8	10 3/4	1 3/8	10 1/2	10 5/8	7/8	12 1/2	7 7/8	12 1/4	12 3/8	1/2	3/8	4 5/8	3 5/8							5.0
2M	30	24	1 1/8	3/8	1/2	4	2 5/8	10 3/4	1 3/8	10 1/2	10 5/8	7/8	12 1/2	7 7/8	12 1/4	12 3/8	1/2	3/8	4 5/8	3 5/8							5.0
3																											
4																											
5																											

STANDARD SIGN
R6-3 & R6-3A

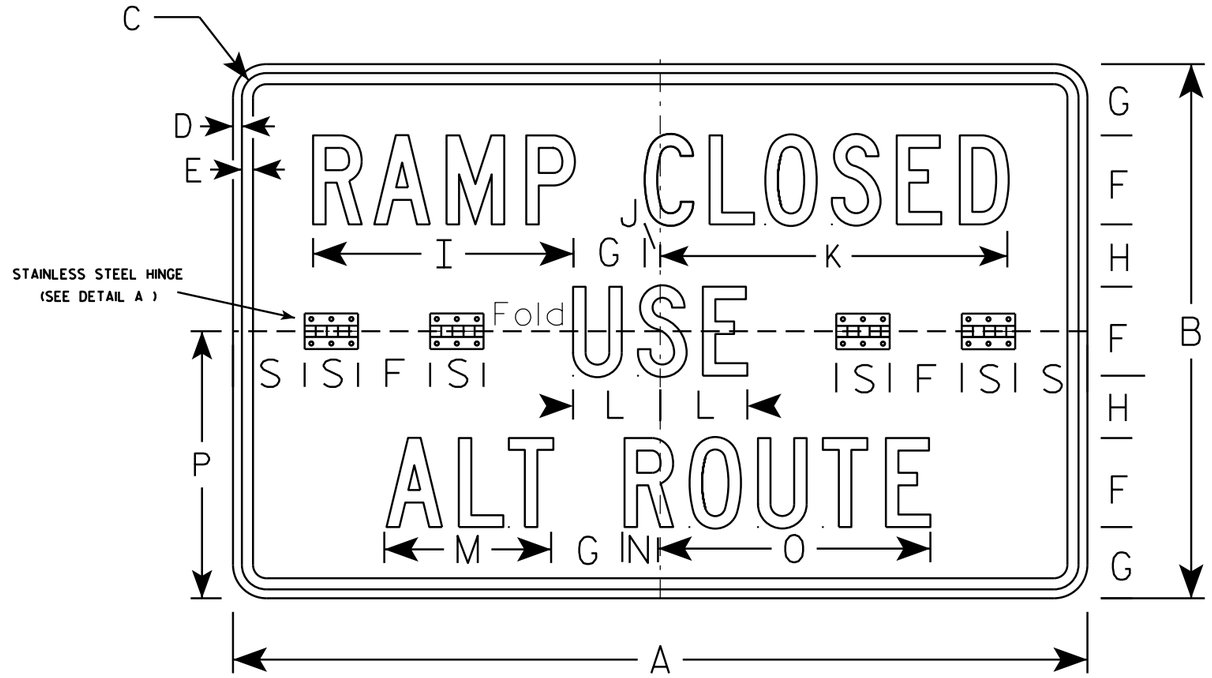
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/31/2011 PLATE NO. R6-3.5

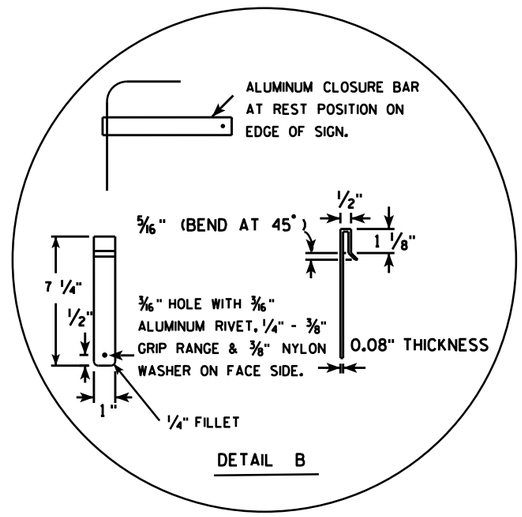
PROJECT NO:

SHEET NO: 84 E



R11-54F

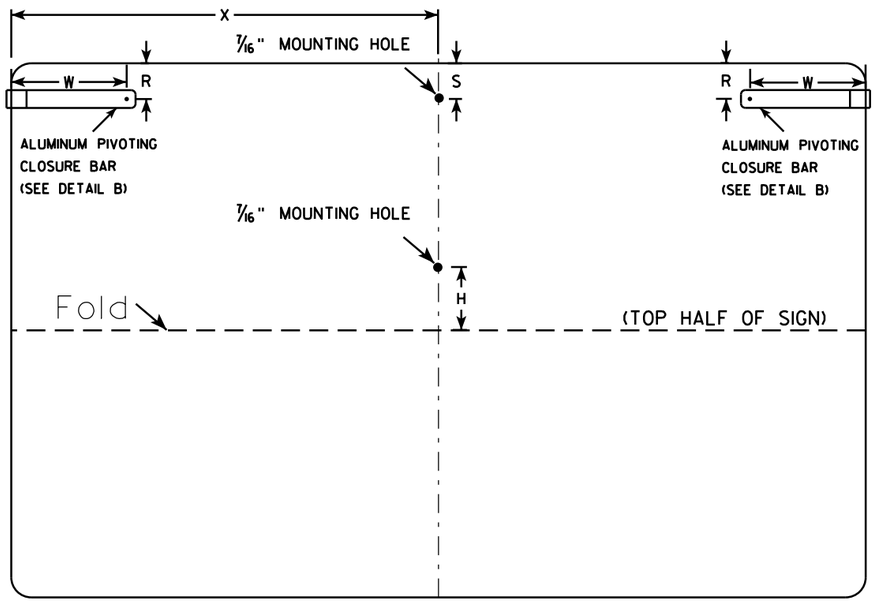
DETAIL A



DETAIL B

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - WHITE
   Message - BLACK
3. Message Series - C
4. Sign Base Material shall be aluminum, corners and borders shall be rounded.
5. All hardware used on the folding sign installation shall conform to 637.2.4 of the WIS DOT Standard Specification.
6. Refer to plate A5-3A for sign blank layout.



(BACK VIEW)

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	30	1 3/8	1/2	5/8	5	4	3 1/2	14 5/8	7/8	19 1/2	4 7/8	9 3/8	2	15 1/4	15		2	3	2 5/8	1 1/4	11/16	6 1/2	24			10.0
2M	48	30	1 3/8	1/2	5/8	5	4	3 1/2	14 5/8	7/8	19 1/2	4 7/8	9 3/8	2	15 1/4	15		2	3	2 5/8	1 1/4	11/16	6 1/2	24			10.0
3																											
4																											
5																											

STANDARD SIGN
R11-54F

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

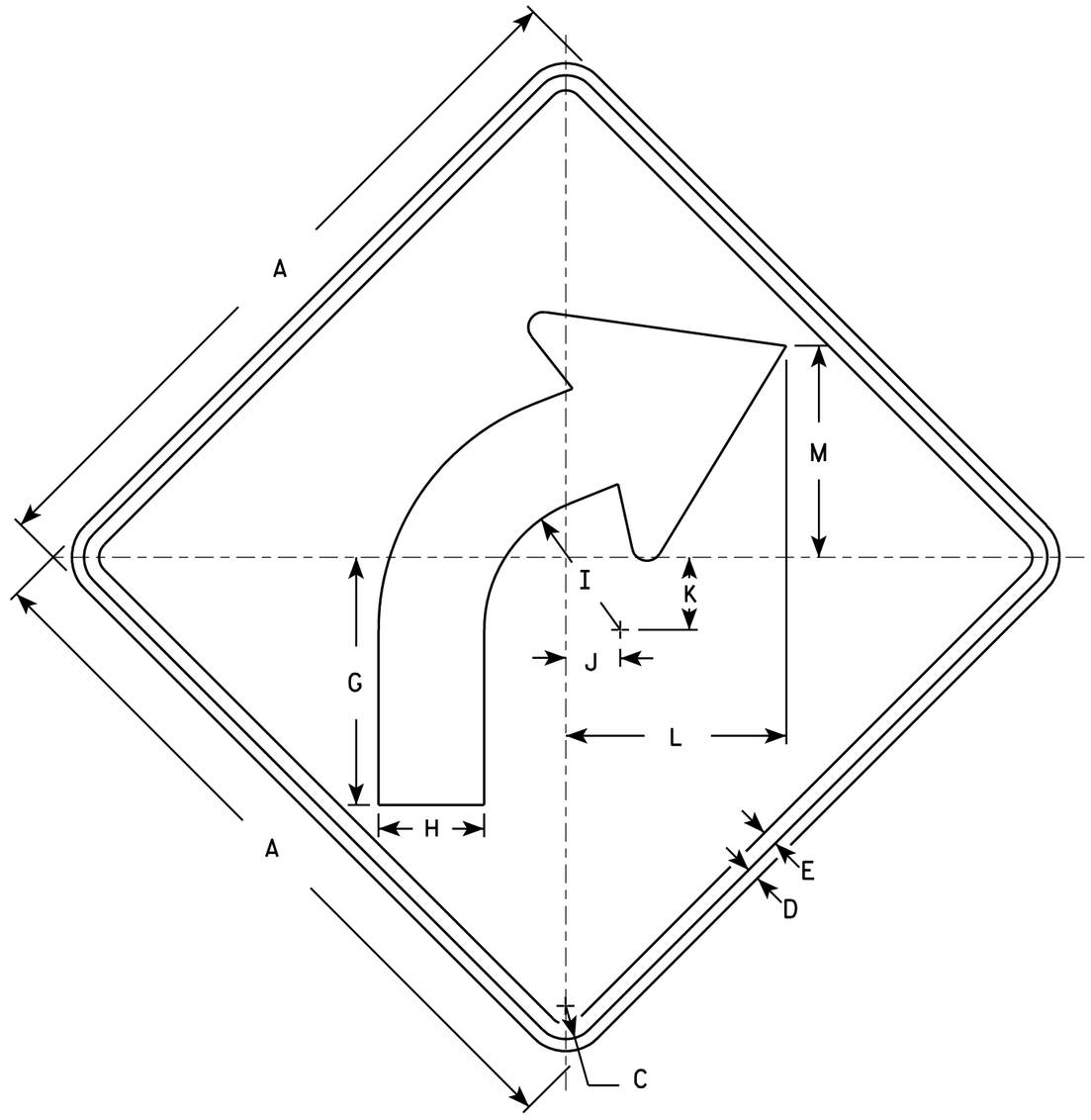
DATE 5/28/14 PLATE NO. R11-54F.3

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

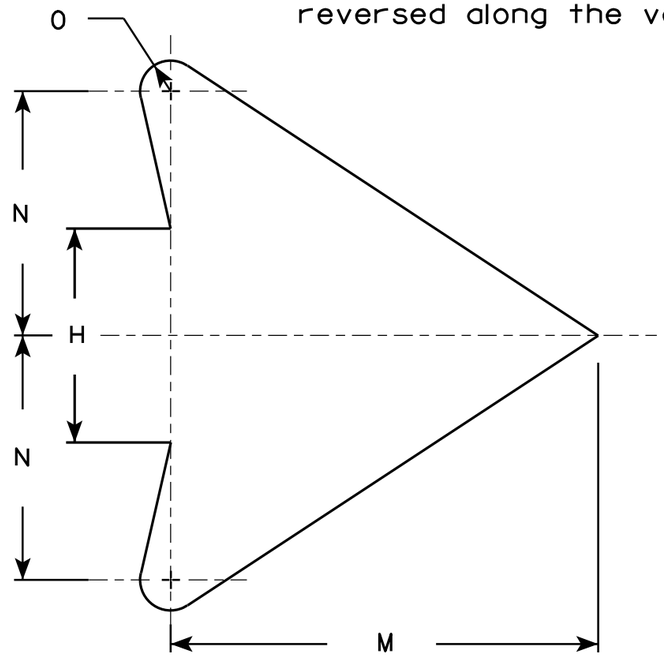
FILE NAME : C:\CAEFiles\Projects\tr_stdplate\R1154F.DGN PLOT DATE : 28-MAY-2014 14:15 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 8.511110:1.000000 WISDOT/CADDS SHEET 42

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.
4. W1-2L is the same as W1-2R except the arrow is reversed along the vertical centerline.



W1-2R



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	24		1 1/8	3/8	1/2		8 1/4	3 1/2	4 1/2	1 3/4	2 3/8	7 1/4	7	4	1/2												4.0
2S	30		1 3/8	1/2	5/8		10 1/4	4 3/8	5 5/8	2 1/4	3	9 1/8	8 3/4	5	5/8												6.25
2M	36		1 5/8	5/8	3/4		12 3/8	5 1/4	6 3/4	2 5/8	3 1/2	10 7/8	10 1/2	6	3/4												9.0
3	36		1 5/8	5/8	3/4		12 3/8	5 1/4	6 3/4	2 5/8	3 1/2	10 7/8	10 1/2	6	3/4												9.0
4	36		1 5/8	5/8	3/4		12 3/8	5 1/4	6 3/4	2 5/8	3 1/2	10 7/8	10 1/2	6	3/4												9.0
5	48		2 1/4	3/4	1		16 1/2	7	9	3 1/2	4 5/8	14 1/2	14	8	1												16.0

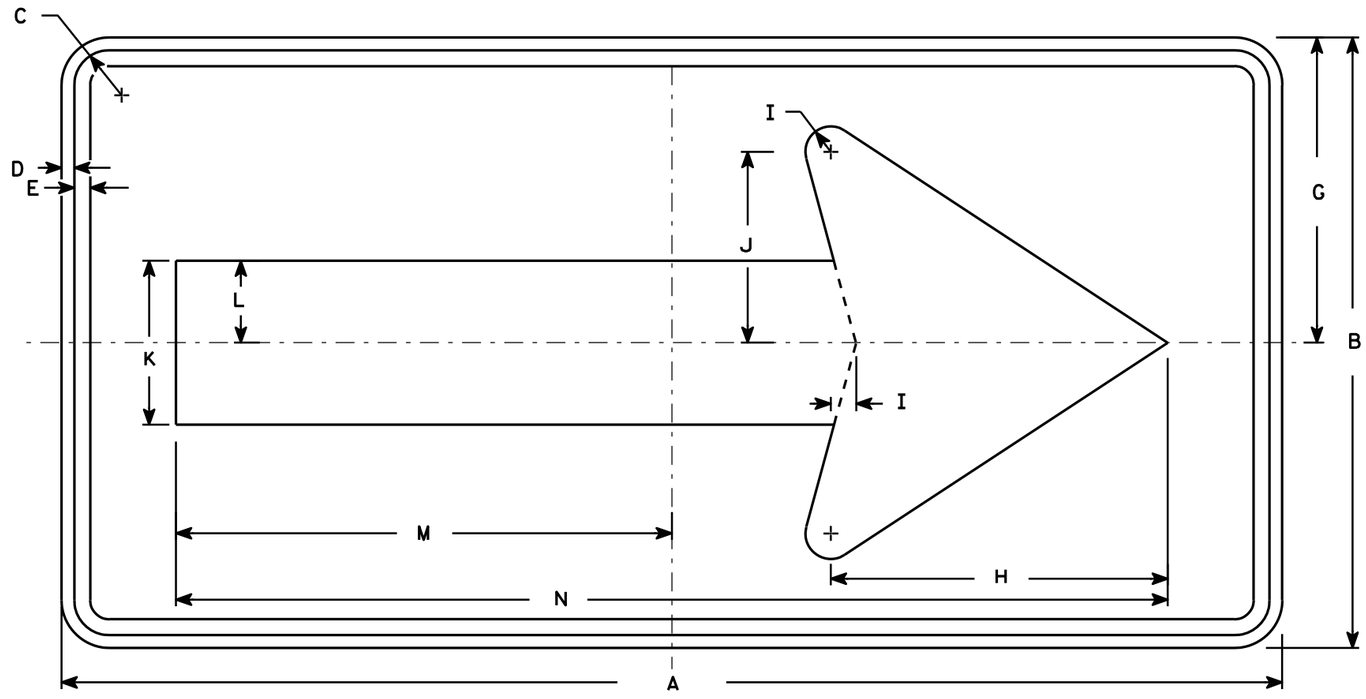
STANDARD SIGN
W1-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/15/12 PLATE NO. W1-2.10

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 86	E



W1-6

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	36	18	1 1/8	3/8	3/8		9	10	3/4	5 5/8	4 3/4	2 3/8	14 5/8	29 1/4													4.5
2S	48	24	1 3/8	1/2	5/8		12	13 1/4	1	7 1/2	6 1/2	3 1/4	19 1/2	39													8.0
2M	48	24	1 3/8	1/2	5/8		12	13 1/4	1	7 1/2	6 1/2	3 1/4	19 1/2	39													8.0
3	60	30	1 3/8	1/2	5/8		15	16 1/4	1 1/4	9 1/4	8	4	24 3/8	48 3/4													12.5
4	60	30	1 3/8	1/2	5/8		15	16 1/4	1 1/4	9 1/4	8	4	24 3/8	48 3/4													12.5
5	96	48	2 1/4	3/4	1		24	26 1/2	2	15	13	6 1/2	39	78													32.0

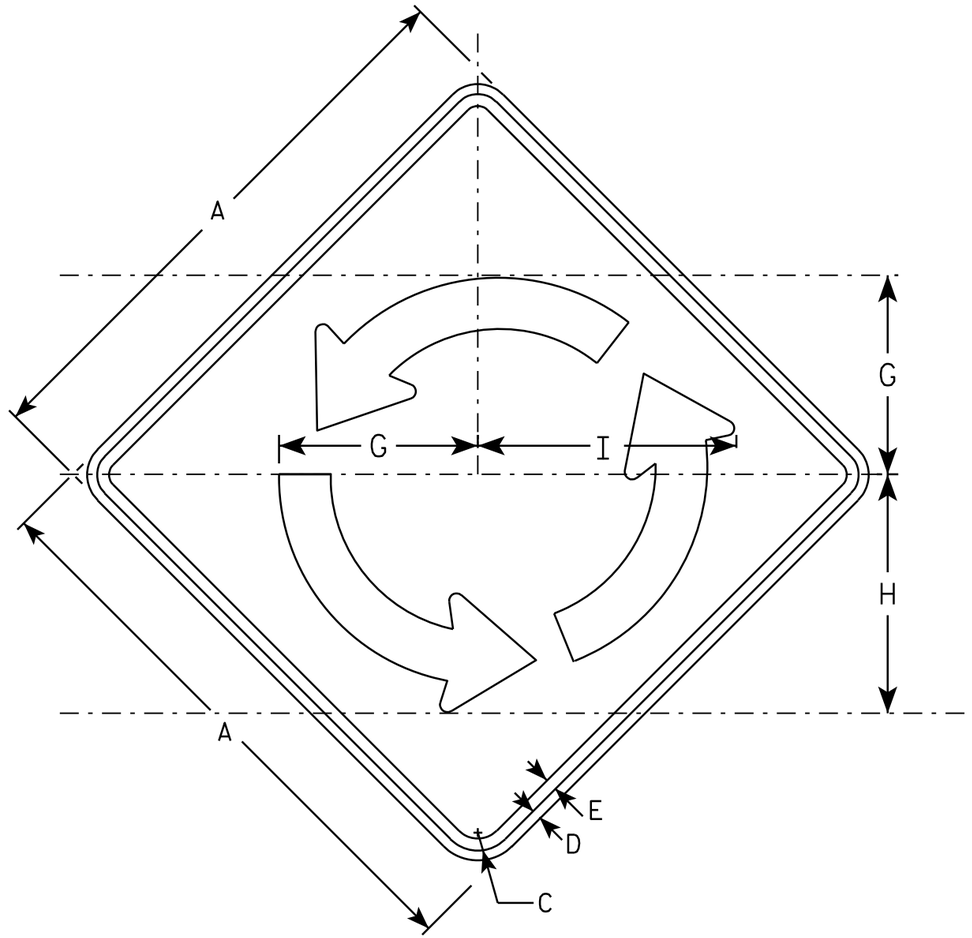
STANDARD SIGN
W1-6

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 6/7/10 PLATE NO. W1-6.8

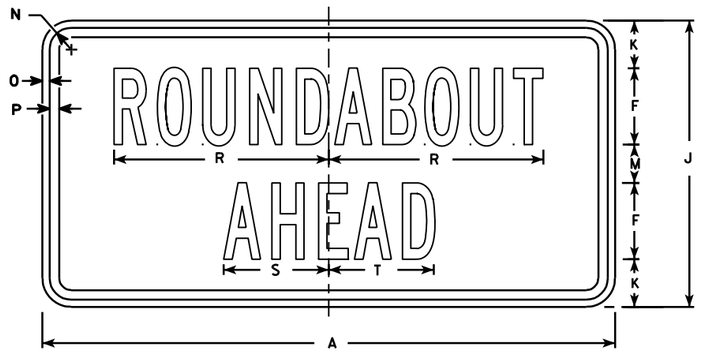
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 87



W2-6

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 - 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.



W2-6P

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	W2-6 Area sq. ft.	W2-6P Area sq. ft.
1																										
2S	30		1 3/8	1/2	5/8	4	10 3/8	12 1/2	13 1/2	15	2 1/2		2	1 1/8	3/8	1/2		11 1/4	5 1/2	5 1/2					6.25	3.12
2M	30		1 3/8	1/2	5/8	4	10 3/8	12 1/2	13 1/2	15	2 1/2		2	1 1/8	3/8	1/2		11 1/4	5 1/2	5 1/2					6.25	3.12
3	36		1 5/8	5/8	3/4	5	12 1/2	15	16 1/4	18	2 5/8		2 3/4	1 1/8	3/8	1/2		14	7	6 3/4					9.00	4.50
4	48		2 1/4	3/4	1	6	16 5/8	20	16 1/4	24	4 3/8		3 5/8	1 3/8	1/2	5/8		17	8 1/4	8 1/4					16.0	8.0
5																										

STANDARD SIGN
W2-6

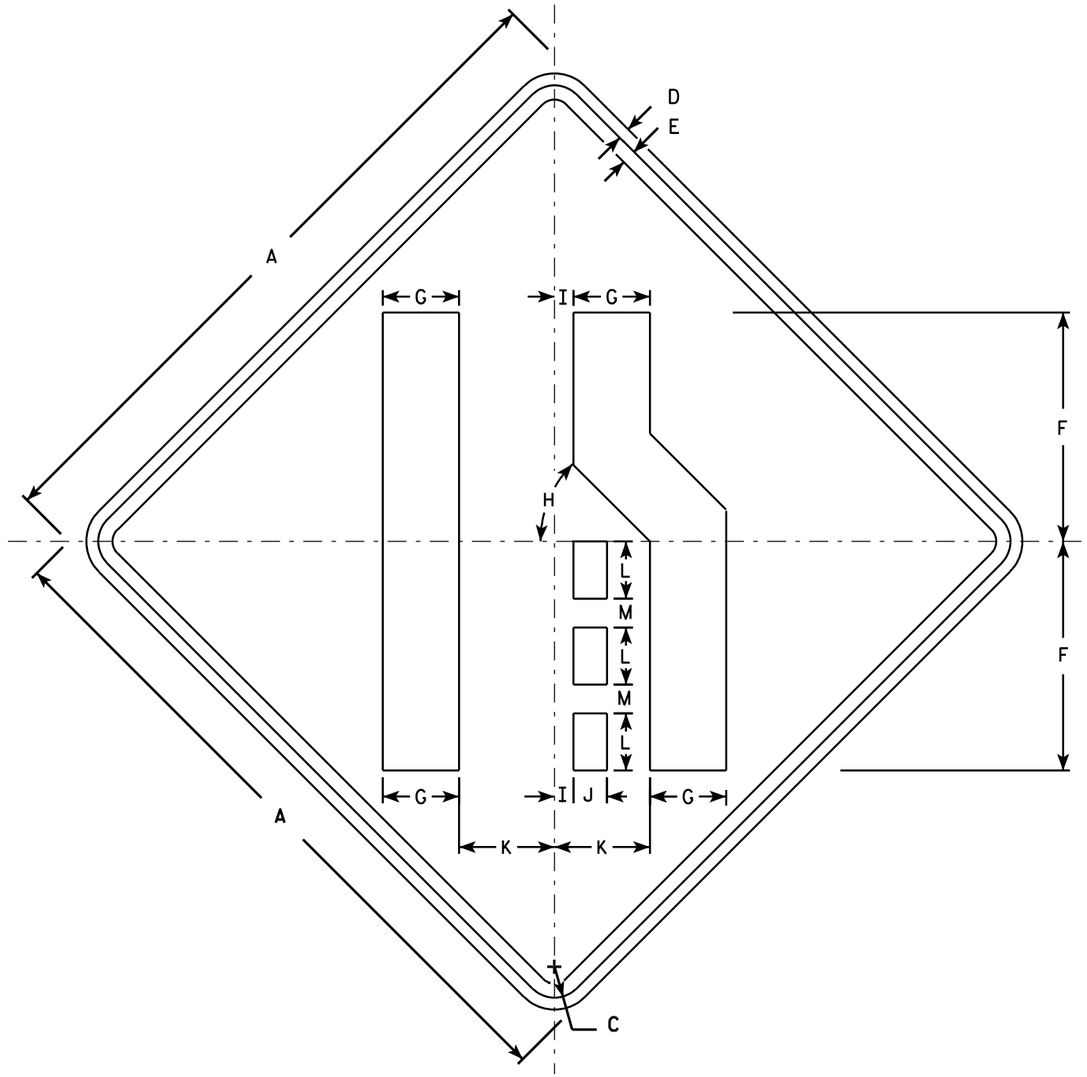
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 6/29/12 PLATE NO. W2-6.5

PROJECT NO:

SHEET NO: 88 E



W4-2R

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.
4. W4-2L is the same as W4-2R except the symbol is reversed along the vertical centerline.

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	10	3 3/8	45°	7/8	1 1/2	4 1/4	2 1/2	1 1/4														6.25
2S	36		1 5/8	5/8	3/4	12	4	45°	1	1 3/4	5	3	1 1/2														9.0
2M	36		1 5/8	5/8	3/4	12	4	45°	1	1 3/4	5	3	1 1/2														9.0
3	36		1 5/8	5/8	3/4	12	4	45°	1	1 3/4	5	3	1 1/2														9.0
4	48		2 1/4	3/4	1	16	5 3/8	45°	1 1/4	2 3/8	6 3/4	4	2														16.0
5	48		2 1/4	3/4	1	16	5 3/8	45°	1 1/4	2 3/8	6 3/4	4	2														16.0

STANDARD SIGN
W4-2

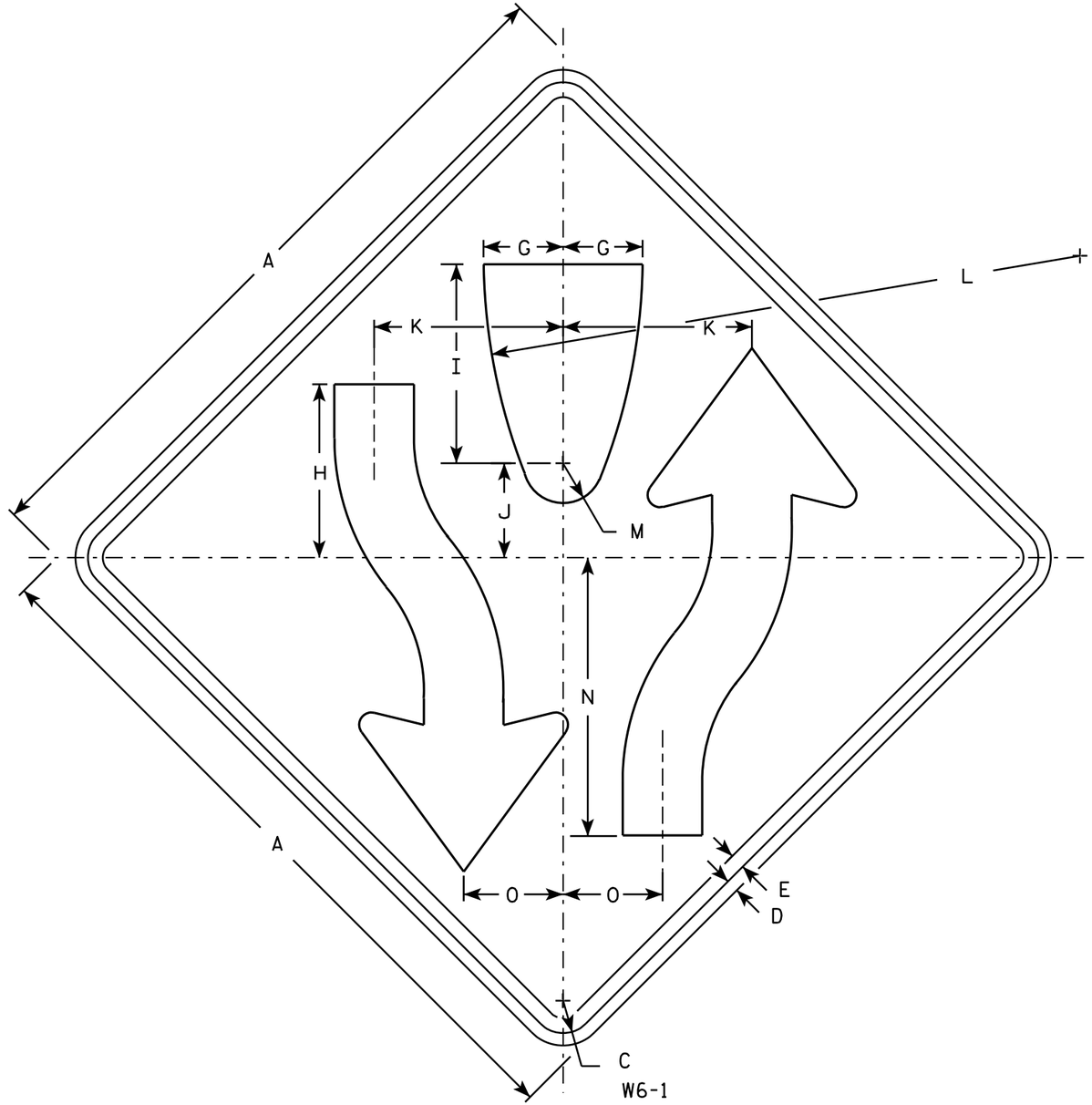
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/12/13 PLATE NO. W4-2.14

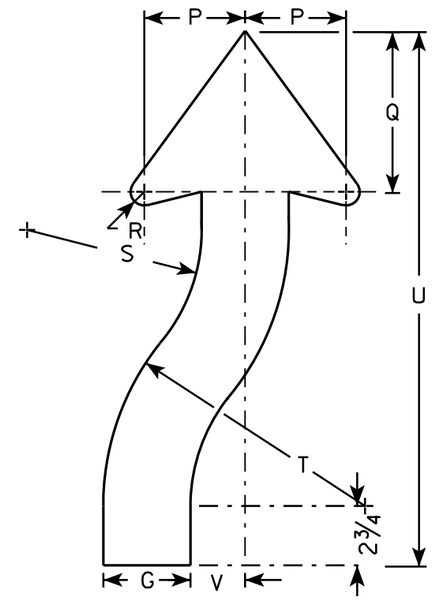
PROJECT NO:

SHEET NO: 89 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.
4. W6-2 same as W6-1 but is rotated 180° when mounted.



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		3 1/4	8	8 1/4	4 1/8	7 7/8	25	1 3/4	11 5/8	4 1/8	3 7/8	6 3/4	5/8	6 5/8	9 7/8	21 5/8	2					6.25
2S	36		1 5/8	5/8	3/4		4	8 3/4	10	4 3/4	9 1/2	30	2	14	5	4 5/8	7 3/8	7/8	8	12	24 1/2	2 1/2					9.0
2M	36		1 5/8	5/8	3/4		4	8 3/4	10	4 3/4	9 1/2	30	2	14	5	4 5/8	7 3/8	7/8	8	12	24 1/2	2 1/2					9.0
3																											
4	48		2 1/4	3/4	1		5 3/8	11 5/8	13 3/8	6 3/8	12 5/8	40	2 5/8	18 5/8	6 5/8	6 1/4	9 7/8	1 1/4	10 5/8	16	32 5/8	3 3/8					16.0
5	48		2 1/4	3/4	1		5 3/8	11 5/8	13 3/8	6 3/8	12 5/8	40	2 5/8	18 5/8	6 5/8	6 1/4	9 7/8	1 1/4	10 5/8	16	32 5/8	3 3/8					16.0

STANDARD SIGN
W6-1 & W6-2

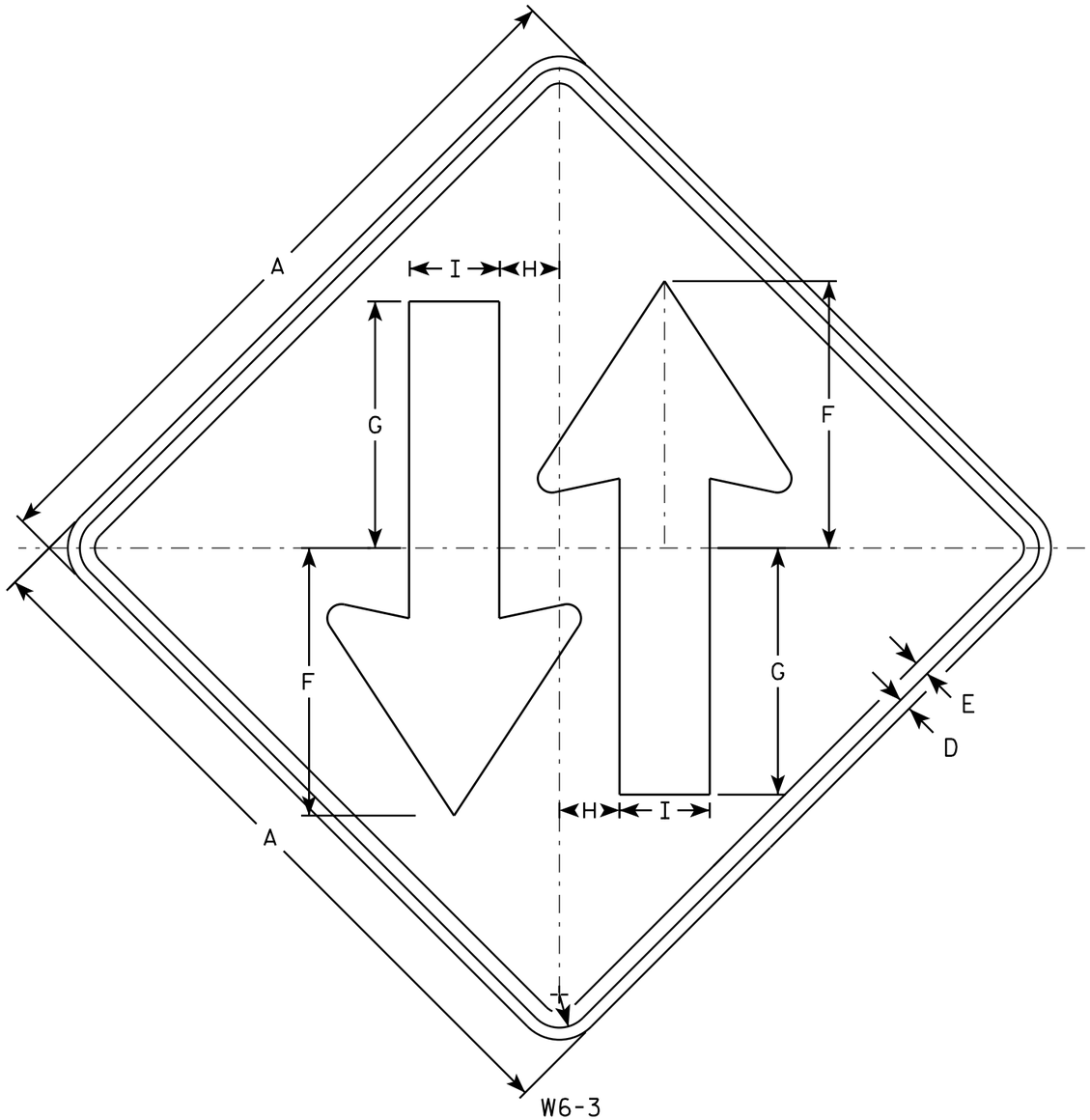
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 03/12/13 PLATE NO. W6-1.14

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 90	E

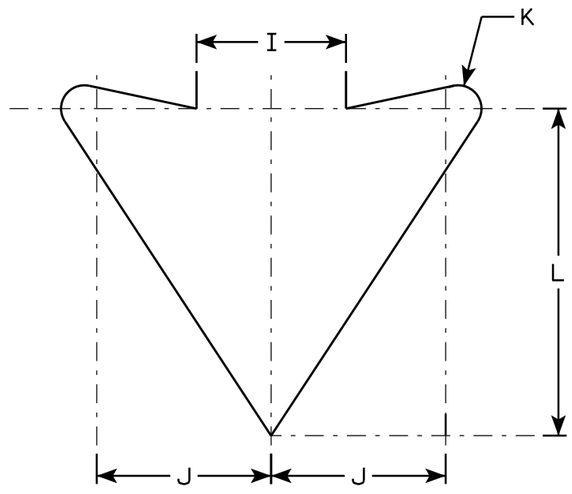
FILE NAME : C:\CAEFiles\Projects\tr_stdplate\W61.DGN PLOT DATE : 12-MAR-2013 14:02 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 6.946657:1.000000
WISDOT/CADDS SHEET 42



W6-3

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.



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	11 1/8	10 1/4	2 1/2	3 3/4	4 3/8	5/8	8 1/4															6.25
2S	36		1 5/8	5/8	3/4	13 3/8	12 1/4	3	4 1/2	5 1/4	3/4	9 7/8															9.0
2M	36		1 5/8	5/8	3/4	13 3/8	12 1/4	3	4 1/2	5 1/4	3/4	9 7/8															9.0
3																											
4	48		2 1/4	3/4	1	17 3/4	16 3/8	4	6	7	1	13 1/8															16.0
5	48		2 1/4	3/4	1	17 3/4	16 3/8	4	6	7	1	13 1/8															16.0

STANDARD SIGN
W6-3

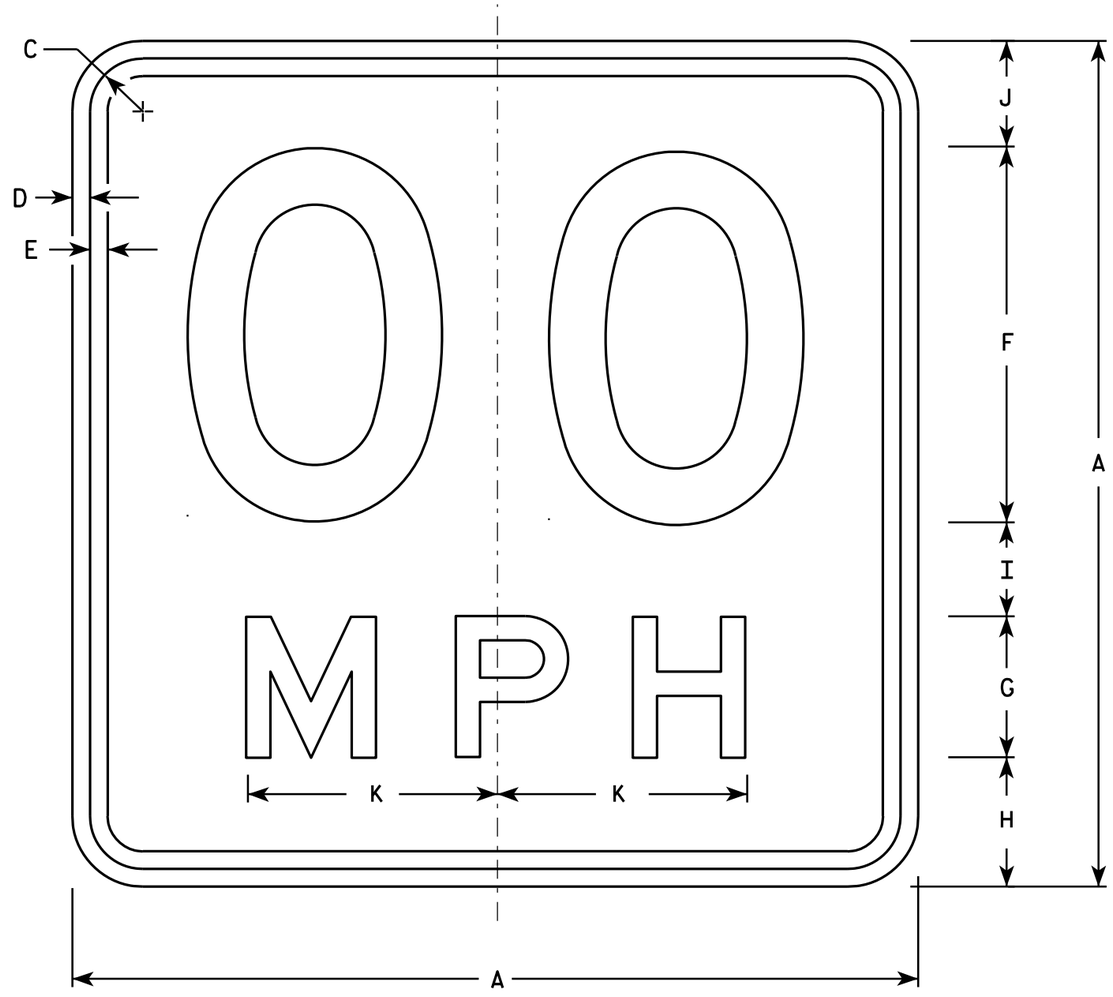
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/10/16 PLATE W6-3.11

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\W63.DGN PLOT DATE : 10-MAR-2016 14:01 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 6.080757:1.000000 WISDOT/CADDS SHEET 42



W13-1

* For 30" x 30" Warning Signs, use 18" x 18" W13-1 signs.
For 36" x 36" Warning Signs, use 24" x 24" W13-1 signs.

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 - See Note 6
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 space about centerline to achieve proper balance.
6. Line 1 is Series D
   Line 2 is 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	18		1 1/8	3/8	3/8	8	3	2 3/4	2	2 1/4	5 3/8																2.25
*	2S	18		1 1/8	3/8	3/8	8	3	2 3/4	2	2 1/4	5 3/8																2.25
*	2M	18		1 1/8	3/8	3/8	8	3	2 3/4	2	2 1/4	5 3/8																2.25
	3	24		1 1/8	3/8	1/2	10	4	4	2 3/4	3 1/4	6 5/8																4.00
	4	36		1 5/8	5/8	3/4	16	6	5 1/2	4	4 1/2	10 5/8																9.00
	5	36		1 5/8	5/8	3/4	16	6	5 1/2	4	4 1/2	10 5/8																9.00

STANDARD SIGN
W13-1

WISCONSIN DEPT OF TRANSPORTATION

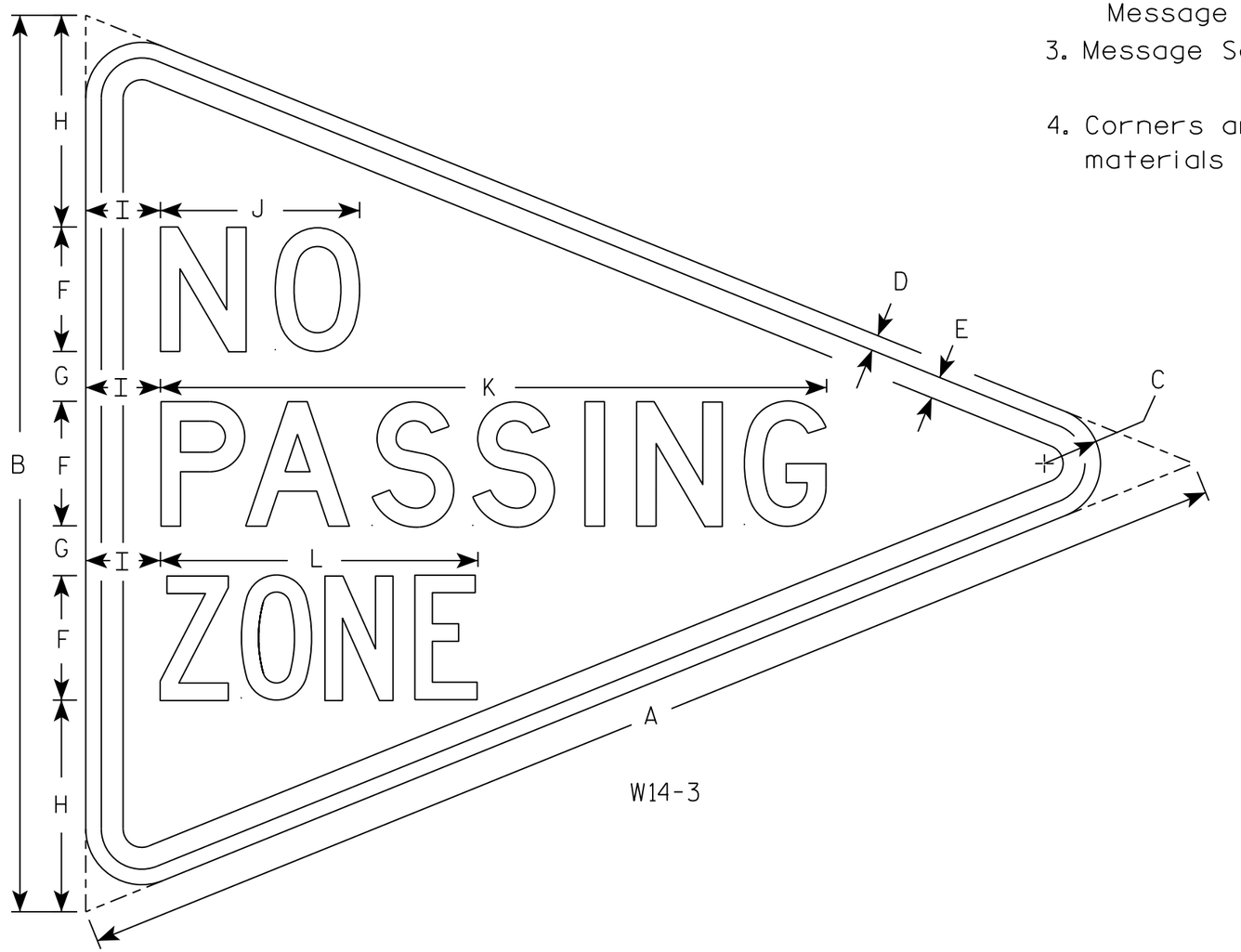
APPROVED Matthew R Rauch
For State Traffic Engineer

DATE 5/31/12 PLATE NO. W13-1.16

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 92 | 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

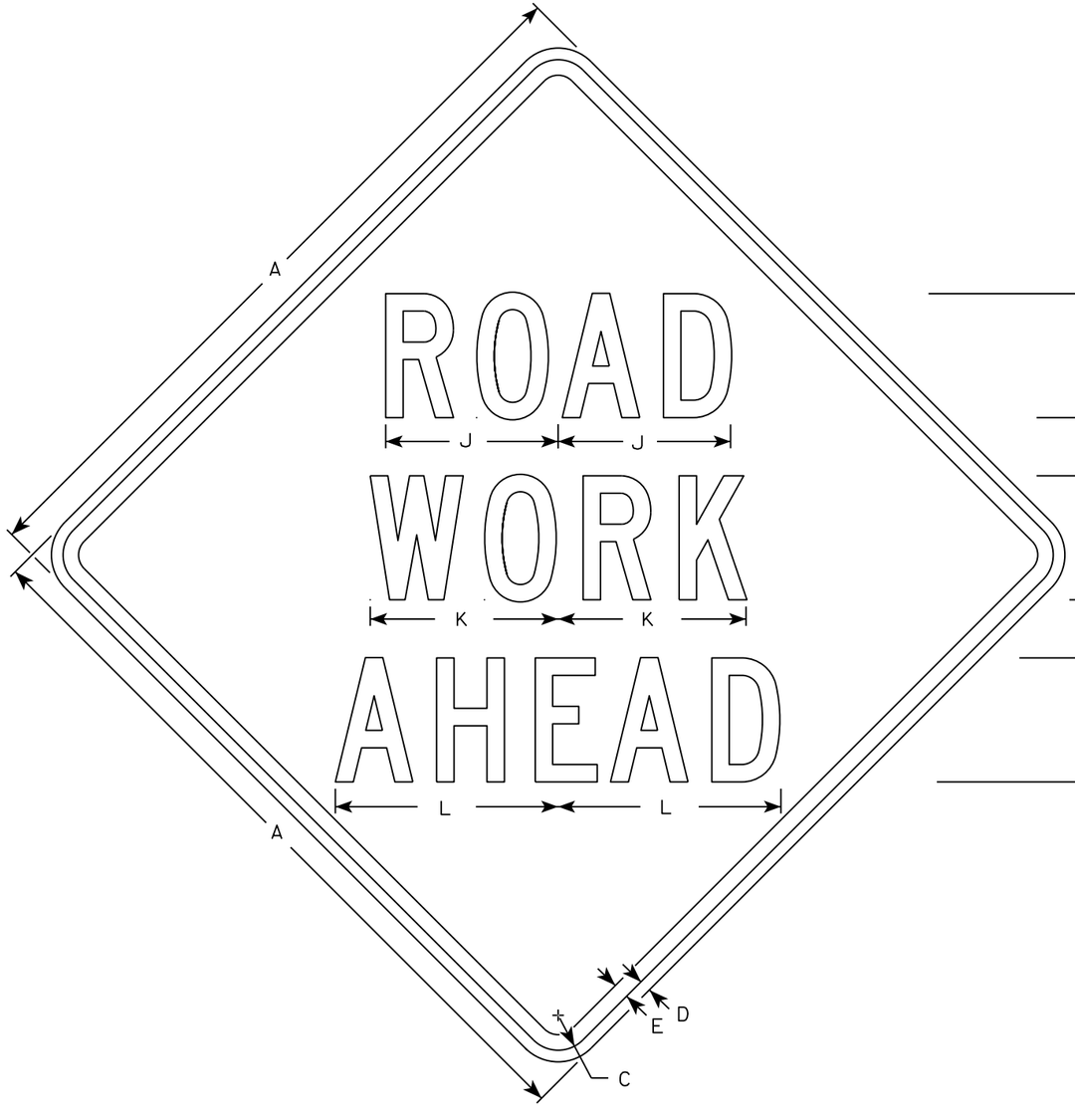
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 93 | E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\W143.DGN PLOT DATE : 21-MAR-2017 08:48 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : 5.650195:1.000000

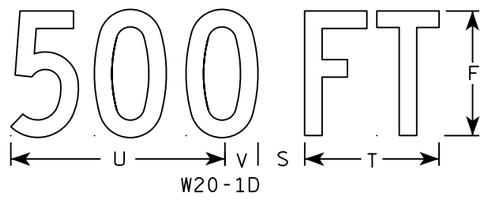
WISDOT/CADDS SHEET 42

7

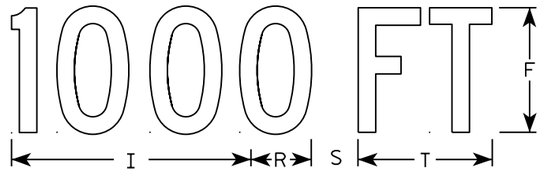
7



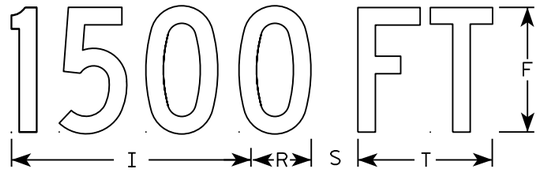
W20-1A



W20-1D

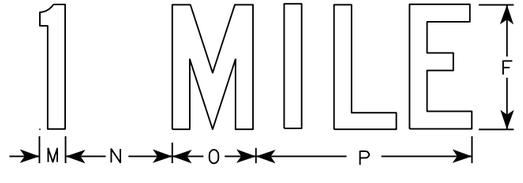


W20-1C

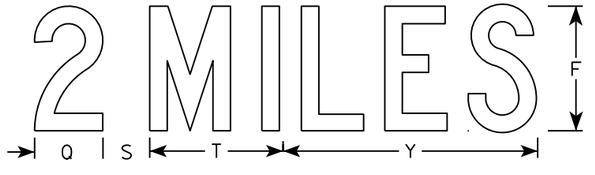


W20-1B

W20-1G



W20-1F



W20-1E

NOTES

1. Sign is Type II - Type F Reflective
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.

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 3/8	1/2	5/8	5	2 5/8	3 1/4	10 1/8	7	7 5/8	8 7/8	1 1/8	4 1/2	3 1/2	9		2 1/2	2 1/4	5 5/8	9	1 3/8	8	1 3/4	10 3/4	6	9.0
2S	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0
2M	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0
3	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0
4	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0
5	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0

STANDARD SIGN
W20-1A, B, C, D, F & G

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/07/15 PLATE NO. W20-1.10

PROJECT NO:

SHEET NO: E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\W201.DGN PLOT DATE : 01-DEC-2015 18:24 PLOT BY : $$ plotuser $$

Notes

Wisconsin Department of Transportation

Dedicated people creating transportation solutions
through innovation and exceptional service.

http://www.dot.wisconsin.gov