GRE DECEMBER 2016

PROJECT ID: 4085-42-71

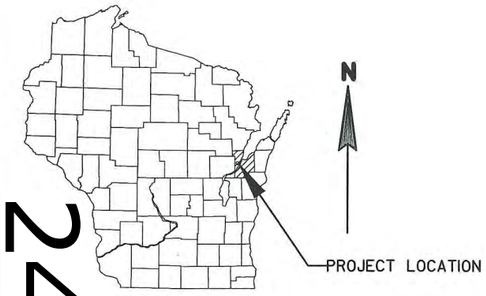
WITH:

COUNTY: BROWN

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 = 214



24

DESIGN DESIGNATION

A.A.D.T.	(2017)	= 11,000
A.A.D.T.	(2037)	= 13,000
D.H.V.	(2037)	= 1,665
D.D.		= 64/36
T.		= 5.6%
DESIGN SPEED		= 30 MPH
ESALS		= 2,452,800

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
- HIGH VOLTAGE CAUTION — CAUTION

PROFILE

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

UTILITIES

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

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

8TH STREET, CITY OF DE PERE

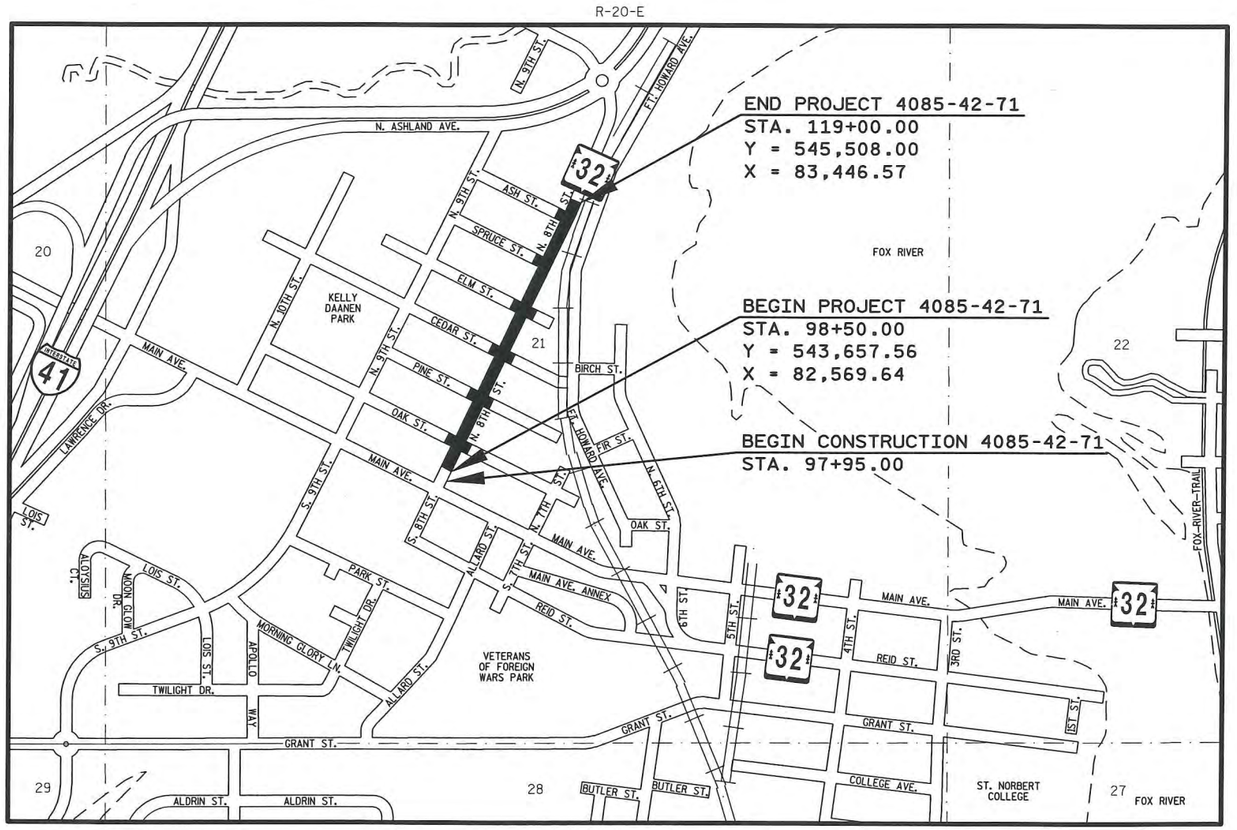
(MAIN AVENUE - ASHLAND AVENUE)

STH 32

BROWN COUNTY

STATE PROJECT NUMBER
4085-42-71

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
4085-42-71	WISC 2016484	1



LAYOUT

SCALE 0 500 FT. 1000 FT.

TOTAL NET LENGTH OF CENTERLINE = 0.388 MI.

Coordinates on this plan are referenced to the Wisconsin County Coordinate System (WCCS), Brown County NAD 83(1991)"

Accepted For

City of De Pere

7/1/16 (Date) — E. P. Rahmn (City Engineer)

Original Plans Prepared By

MSA PROFESSIONAL SERVICES
TRANSPORTATION • MUNICIPAL • REMEDIATION
DEVELOPMENT • ENVIRONMENTAL
2901 International Lane, Suite 300, Madison, WI 53704
608-242-7779 1-800-445-0679 Fax: 608-242-5664

WISCONSIN
JAIME L KURTEN-CHMIELEWSKI
E-42403
MADISON
WI
PROFESSIONAL ENGINEER

6/23/16 (Date) — Jaime Kurten Chmielewski (Signature)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PREPARED BY

Surveyor	MSA PROFESSIONAL SERVICES, INC.
Designer	MSA PROFESSIONAL SERVICES, INC.
Regional Examiner	
Regional Supervisor	DANIEL SEGERSTROM

APPROVED FOR THE DEPARTMENT

DATE: 7/5/16 (Signature)

E

GENERAL NOTES

ELEVATIONS SHOWN ON THIS PLAN ARE REFERENCED TO NAVD88.

THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS AS SHOWN ON THE PLANS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE AREA THAT ARE NOT SHOWN. THE CONTRACTOR SHALL NOTIFY DIGGERS HOTLINE AND ALL OTHER. UTILITIES IN THE VICINITY OF THE PROJECT TO LOCATE THEIR FACILITIES AT LEAST 3 WORKING DAYS PRIOR TO BEGINNING WORK.

TYPICAL FINISHED SECTIONS SHOW THE GENERAL ROADWAY FEATURES THROUGHOUT THE PROJECT. PAVEMENT SLOPES, BORDER SLOPES, ETC., MAY VARY WITHIN THE STATION LIMITS OF THE STATION SECTION. SEE DETAIL SHEETS AND CROSS SECTIONS FOR SLOPES AND GRADES.

RADIUS DIMENSIONS FOR THE CURB AND GUTTER ARE TO THE FACE OF CURB.

THE LATERAL CLEARANCE BEHIND CURB AND GUTTER IS 2 FEET FROM THE FACE OF THE CURB.

ANY MESH MATERIAL THAT IS FOUND IN THE EXISTING CONCRETE PAVEMENT SHALL BE INCIDENTAL TO THE REMOVAL OF THE PAVEMENT ITEM IN THAT SECTION. EXISTING PAVEMENT DEPTHS ARE BASED ON SOIL BORINGS AND MAY VARY IN THE FIELD.

THE EXACT LOCATION AND WIDTH OF DRIVEWAYS SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD.

DRIVEWAYS WILL BE REPLACED WITH CONCRETE UP TO THE SIDEWALK. REPLACE IN KIND BEHIND THE SIDEWALK. ALL RESIDENTIAL CONCRETE DRIVEWAYS AND SIDEWALKS ACROSS DRIVEWAYS SHALL BE 6" THICK AND SHALL BE PAID FOR AS A CONCRETE DRIVEWAY 6-INCH AND CONCRETE SIDEWALK 6-INCH, RESPECTIVELY. ALL COMMERCIAL DRIVEWAYS AND SIDEWALKS ACROSS DRIVEWAYS SHALL BE 8" THICK AND SHALL BE PAID FOR AS CONCRETE DRIVEWAY 8-INCH AND CONCRETE SIDEWALK 8-INCH, RESPECTIVELY.

MISCELLANEOUS REMOVAL ITEMS REQUIRING RESTORATION OF CONCRETE OR ASPHALTIC CONCRETE DRIVEWAYS, SIDEWALKS, OR SIDE STREETS SHALL BE REMOVED TO AN EXISTING JOINT OR SAWED AS DETERMINED BY THE ENGINEER, OR AS SHOWN ON THE PLANS.

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

DEPTH OF INLETS AND MANHOLES SHOWN ON THE MISCELLANEOUS QUANTITIES SHEET IS FROM TOP OF STRUCTURE TO INVERT.

OFFSETS FOR INLETS 2X3-FT ARE GIVEN TO THE CENTER OF STRUCTURE.

EROSION CONTROL FEATURES TO BE PLACED AS SHOWN ON THE PLAN OR AS DIRECTED BY THE ENGINEER AND IN PLACE PRIOR TO START OF CONSTRUCTION.

DISTURBED AREAS WITHIN THE RIGHT-OF-WAY AND TLE ARE TO BE COVERED WITH TOPSOIL, FERTILIZER (TYPE B), SEED AND MULCH, AS DIRECTED BY THE ENGINEER.

ORDER OF TYPICAL SECTION AND DETAIL SHEETS

GENERAL NOTES
PROJECT OVERVIEW
TYPICAL SECTIONS
CONSTRUCTION DETAILS
OVERVIEW DETAILS
CURB RAMP DETAILS
PAVING DETAILS
EROSION CONTROL
STORM SEWER
SANITARY SEWER & WATERMAIN
PLANTING DETAILS
PERMANENT SIGNING AND PAVEMENT MARKINGS
STREET LIGHTING
TRAFFIC CONTROL OVERVIEW
PEDESTRIAN DETOUR SIGNING
DETOUR SIGNING DETAIL
ALIGNMENT OVERVIEW
CONTROL POINT TIES

DESIGN CONTACTS

WISCONSIN DEPARTMENT OF TRANSPORTATION
ATTN: ANDREW FULCER, P.E.
BROWN COUNTY PROJECT MANAGER
WISDOT-NE REGION
944 VANDERPERREN WAY
GREEN BAY, WI 54304
PHONE: 920-362-6126
EMAIL: ANDREW.FULCER@DOT.WI.GOV

DNR LIAISON

WISCONSIN DEPARTMENT OF NATURAL RESOURCES
ATTN: JIM DOPERALSKI
2984 SHAWANO AVENUE
GREEN BAY, WI 54313
PHONE: 920-662-5119
EMAIL: JAMES.DOPERALSKI@WISCONSIN.GOV

UTILITIES

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ATTN: LORI BUTRY
700 ADAMS STREET
GREEN BAY, WI 54301
PHONE: 920-433-1703
EMAIL: LABUTRY@INTEGRYSGROUP.COM

GAS:
WISCONSIN PUBLIC SERVICE (WPS)
ATTN: DENA ANDRE
2850 S. ASHLAND AVENUE
GREEN BAY, WI 54304
PHONE: 920-617-5092
CELL: 231-649-1486
EMAIL: DJANDRE@WISCONSINPUBLICSERVICE.COM

GAS/PETROLEUM:
ANR PIPELINE
ATTN: LAWRENCE HUBER
W3925 PIPELINE LANE
EDEN, WI 53019
EMAIL: LAWRENCE.HUBER@TRANSCANADA.COM

ELECTRIC:
WISCONSIN PUBLIC SERVICE (WPS)
ATTN: RANDY STEIER
700 ADAMS STREET
GREEN BAY, WI 54301
PHONE: 920-617-5167
CELL: 920-655-1596
EMAIL: RDSTEIER@WISCONSINPUBLICSERVICE.COM

ELECTRIC:
ATC MANAGEMENT, INC
ATTN: KIM HACKELBERG
801 O'KEEFE ROAD
P.O. BOX 6113
DE PRERE, WI 54115-6113
PHONE: 920-338-6556
EMAIL: KHACKELBERG@ATCLLC.com

TELECOMMUNICATIONS:
TIME WARNER
ATTN: VINCE ALBIN
3520 DESTINATION DRIVE
APPLETON, WI 54915
PHONE: 920-378-0444
EMAIL: VINCE.ALBIN@TWCABLE.COM

TELECOMMUNICATIONS:
WINDSTREAM KDL
ATTN: DENNIS RUESS
13935 BISHOPS DRIVE
BROOKFIELD, WI 53005
PHONE: 608-512-5582
EMAIL: DENNIS.RUESS@WINDSTREAM.COM

TELECOMMUNICATIONS:
AT&T WISCONSIN
ATTN: JOE KASSAB
205 S JEFFERSON ST
GREEN BAY, WI 54301
EMAIL: JK572K@ATT.COM

TELECOMMUNICATIONS:
LEVEL 3
ATTN: MARK DECHANT
3235 INTERTECH DRIVE, SUITE 600
BROOKFIELD, WI 53045
PHONE: 414-426-1857
EMAIL: MARK.DECHANT@LEVEL3.COM

SANITARY SEWER:
GREEN BAY METROPOLITAN SEWERAGE DISTRICT
ATTN: ROB REINHART
2231 NORTH QUINCY STREET
GREEN BAY, WI 54302
PHONE: 920-438-1035
EMAIL: RREINHART@NEWWATER.US

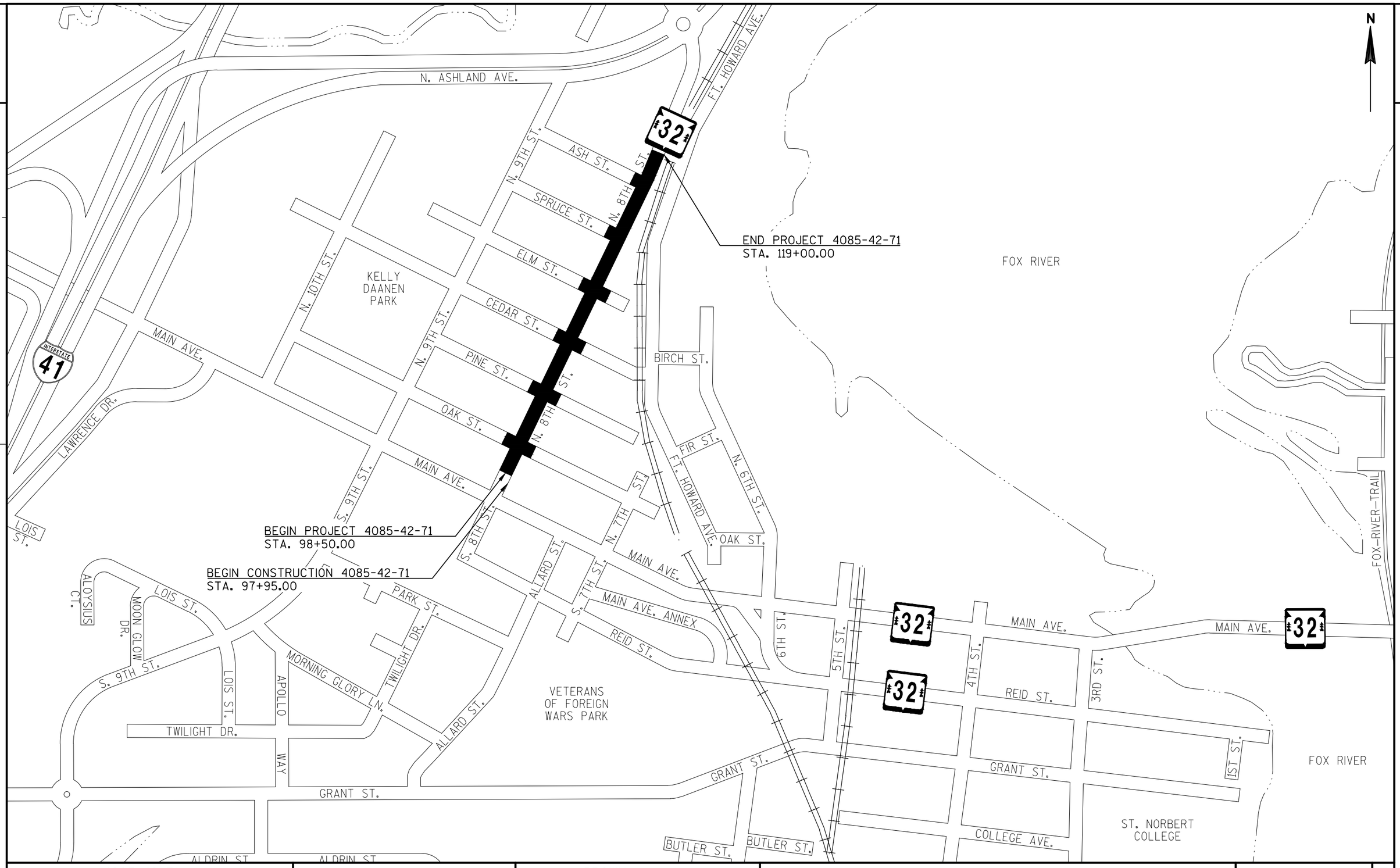
SANITARY SEWER & WATERMAIN:
CITY OF DE PERE
ATTN: ERIC RAKERS
925 S 6TH STREET
DE PERE, WI 54115
PHONE: 920-339-8304
EMAIL: ERAKERS@MAIL.DE-PERE.ORG

**-DENOTES UTILITIES THAT ARE NOT DIGGERS HOTLINE MEMBERS

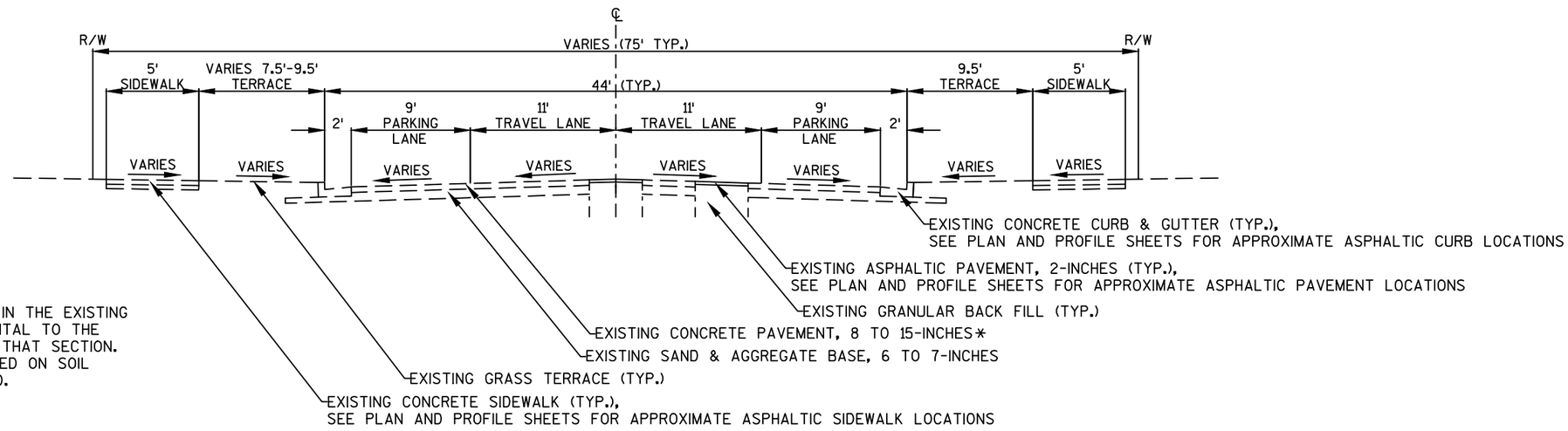
DIGGERS HOTLINE
Dial 811 or (800) 242-8511
www.DiggersHotline.com

STANDARD ABBREVIATIONS

AC	ACRES
AH	AHEAD
ALUM.	ALUMINUM
A.P.	ACCESS POINT
BK	BACK
BLK	BLOCK
BM	BENCHMARK
CE	COMMERCIAL ENTRANCE
CL or C/L	CENTERLINE
Δ	CENTRAL ANGLE or DELTA
CONC	CONCRETE
CSM	CERTIFIED SURVEY MAP
D	DEGREE OF CURVE
E	EAST
X	EAST GRID COORDINATE
EB	EASTBOUND
ESTR	EXISTING SIGN TO REMAIN
ET AL	AND OTHERS
EXIST	EXISTING
GN	GRID NORTH
IP	IRON PIPE
MI	MILE
L	LENGTH
L	LENGTH OF CURVE
LC	LONG CHORD
LCB	LONG CHORD BEARING
MH	MANHOLE
FT	FOOT
IN	INCH
INL	INLET
INV	INVERT ELEVATION
MON	MONUMENT
MH	MANHOLE
N	NORTH
Y	NORTH GRID COORDINATE
NB	NORTHBOUND
NO	NUMBER
PT	POINT
PC	POINT OF CURVATURE
PE	PRIVATE ENTRANCE
PI	POINT OF INTERSECTION
PT	POINT OF TANGENCY
PL	PROPERTY LINE
POB	POINT OF BEGINNING
R	RADIUS
RCP	REINFORCED CONCRETE PIPE
RP	RADIUS POINT
R	RANGE
RL or R/L	REFERENCE LINE
REQD	REQUIRED
RT	RIGHT
R/W	RIGHT-OF-WAY
RD	ROAD
S	SOUTH
SB	SOUTHBOUND
SSPRC	STORM SEWER PIPE REINFORCED CONCRETE
SQ	SQUARE
FT2	SQUARE FEET
STD	STANDARD
SEC	SECTION
STA	STATION
STR	STRUCTURE
T	TANGENT
TAN	TANGENT
TEMP	TEMPORARY
TLE	TEMPORARY LIMITED EASEMENT
T or TN	TOWN
TYP	TYPICAL
W	WEST
WB	WESTBOUND



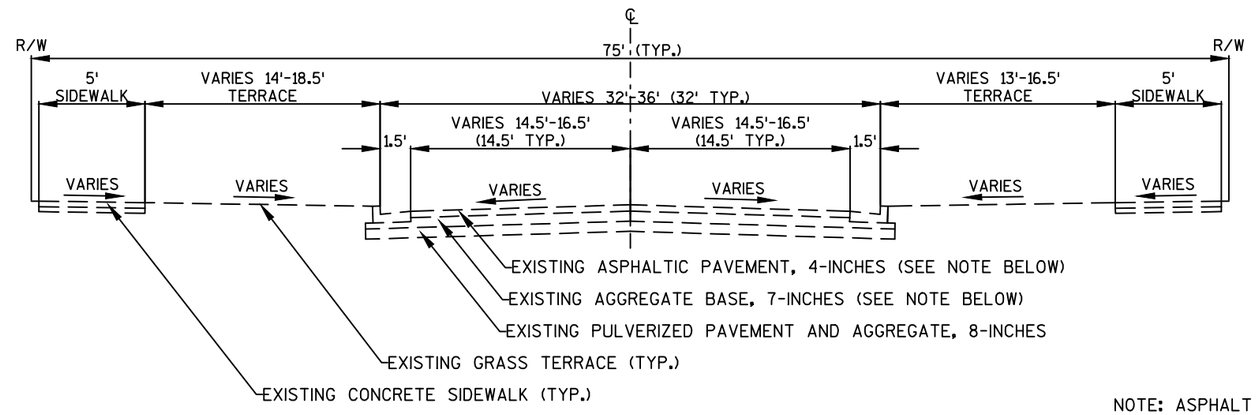
PROJECT NO: 4085-42-71	HWY: WIS 32 (8TH STREET)	COUNTY: BROWN	PROJECT OVERVIEW	SHEET 3	E



* ANY MESH MATERIAL THAT IS FOUND IN THE EXISTING CONCRETE PAVEMENT WILL BE INCIDENTAL TO THE REMOVAL OF THE PAVEMENT ITEM IN THAT SECTION. EXISTING PAVEMENT DEPTHS ARE BASED ON SOIL BORINGS AND MAY VARY IN THE FIELD.

EXISTING TYPICAL SECTION - N. 8TH STREET (WIS 32)

STA. 98+50 TO STA. 119+00

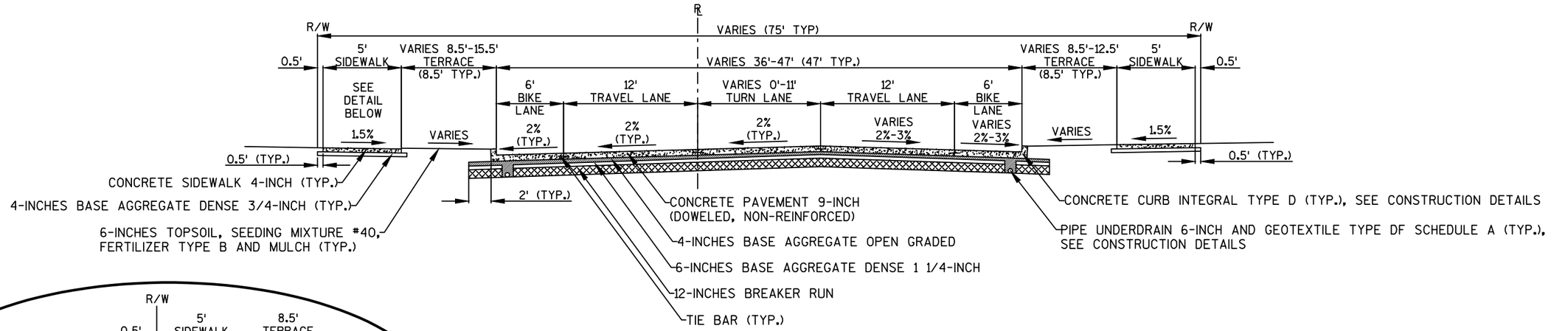


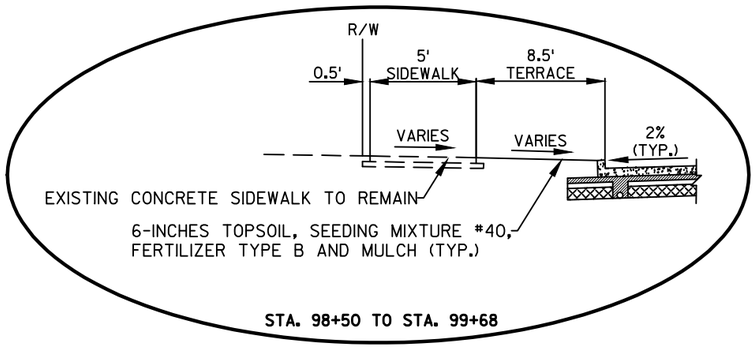
NOTE: ASPHALT AND AGGREGATE DEPTH MAY VARY ON PINE STREET, CEDAR STREET AND ASH STREET

EXISTING TYPICAL SECTION - SIDE STREETS

OAK STREET, PINE STREET, CEDAR STREET, ELM STREET, SPRUCE STREET, ASH STREET

PROJECT NO: 4085-42-71	HWY: WIS 32 (8TH STREET)	COUNTY: BROWN	TYPICAL SECTIONS	SHEET 4	E



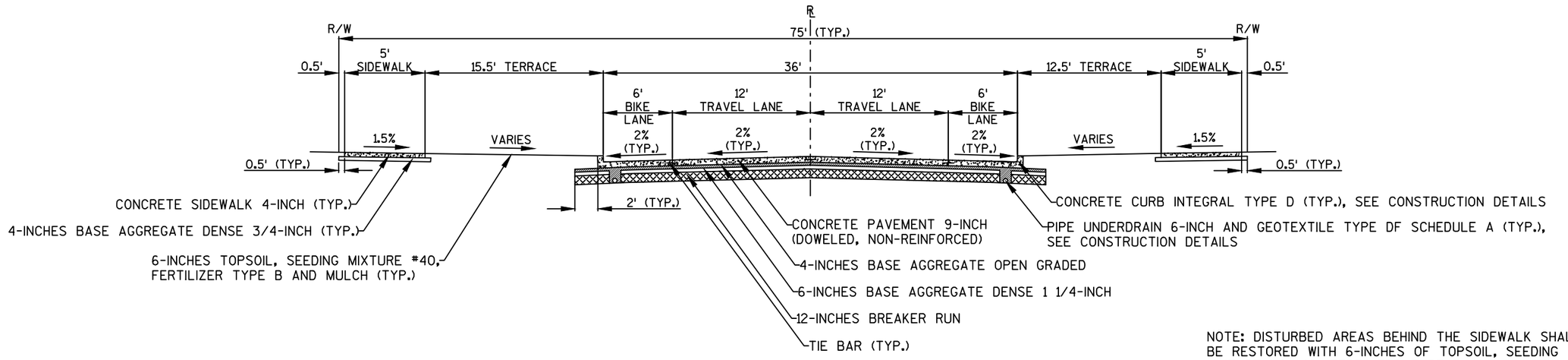


STA. 98+50 TO STA. 99+68

NOTE: DISTURBED AREAS BEHIND THE SIDEWALK SHALL BE RESTORED WITH 6-INCHES OF TOPSOIL, SEEDING MIXTURE NO. 40, FERTILIZER TYPE B AND MULCH.

FINISHED TYPICAL SECTION - N. 8TH STREET (WIS 32)

STA. 98+50 TO STA. 102+20
STA. 104+27 TO STA. 111+08

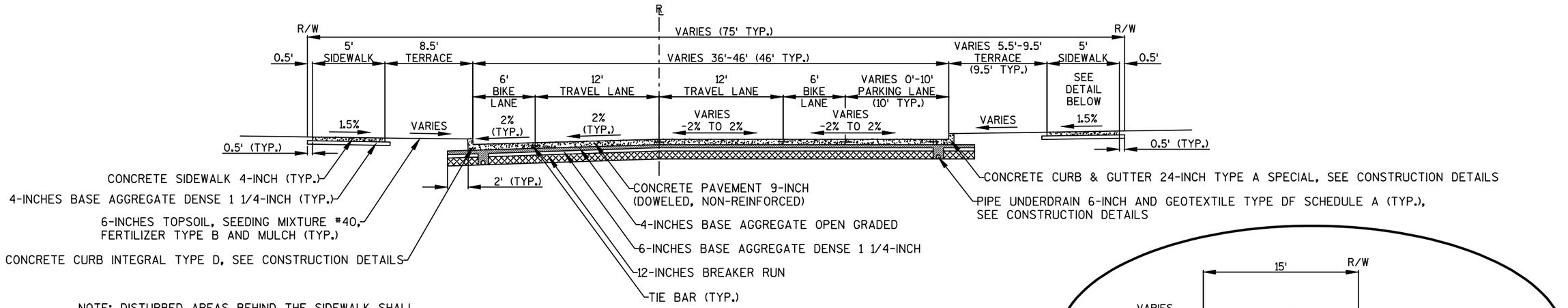


NOTE: DISTURBED AREAS BEHIND THE SIDEWALK SHALL BE RESTORED WITH 6-INCHES OF TOPSOIL, SEEDING MIXTURE NO. 40, FERTILIZER TYPE B AND MULCH.

FINISHED TYPICAL SECTION - N. 8TH STREET (WIS 32)

STA. 102+20 TO STA. 104+27

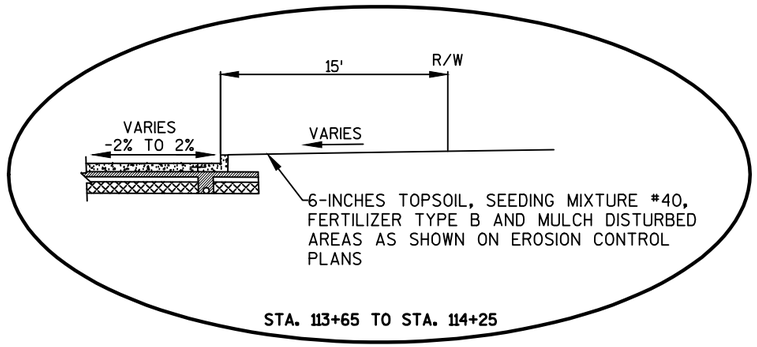
PROJECT NO: 4085-42-71	HWY: WIS 32 (8TH STREET)	COUNTY: BROWN	TYPICAL SECTIONS	SHEET 5	E



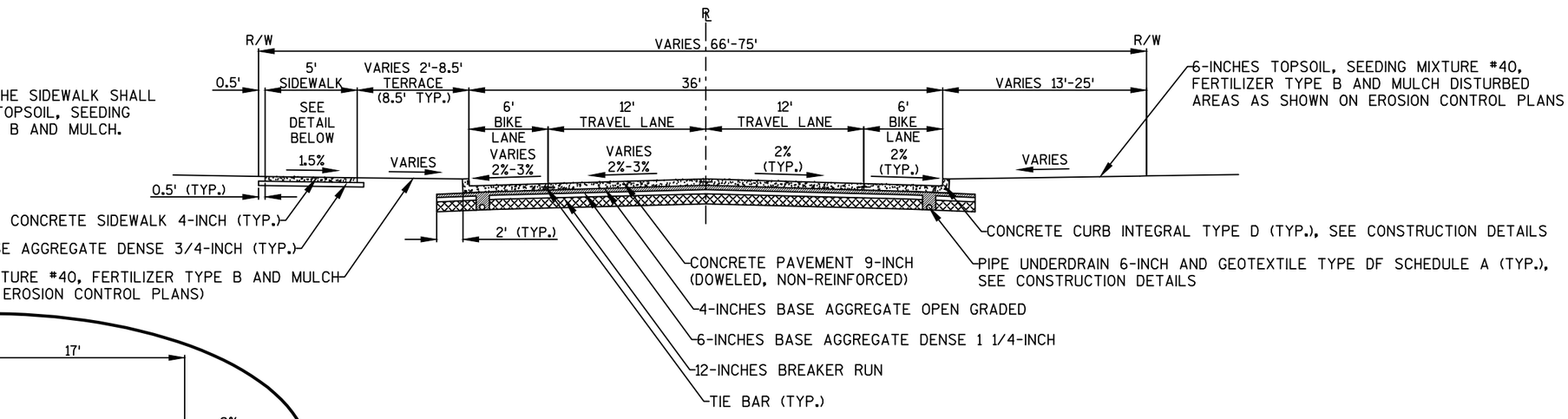
NOTE: DISTURBED AREAS BEHIND THE SIDEWALK SHALL BE RESTORED WITH 6-INCHES OF TOPSOIL, SEEDING MIXTURE NO. 40, FERTILIZER TYPE B AND MULCH.

FINISHED TYPICAL SECTION - N. 8TH STREET (WIS 32)

STA. 111+08 TO STA. 114+25



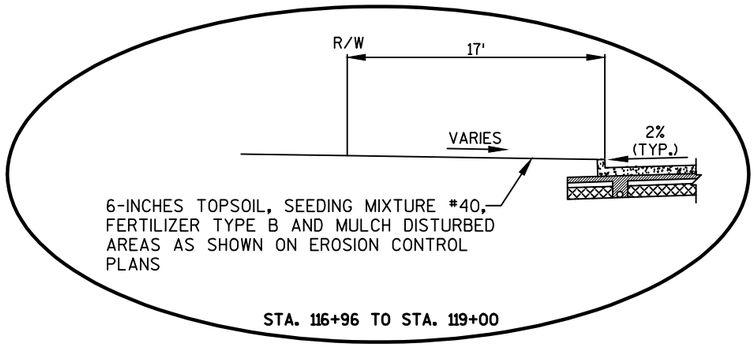
STA. 113+65 TO STA. 114+25



NOTE: DISTURBED AREAS BEHIND THE SIDEWALK SHALL BE RESTORED WITH 6-INCHES OF TOPSOIL, SEEDING MIXTURE NO. 40, FERTILIZER TYPE B AND MULCH.

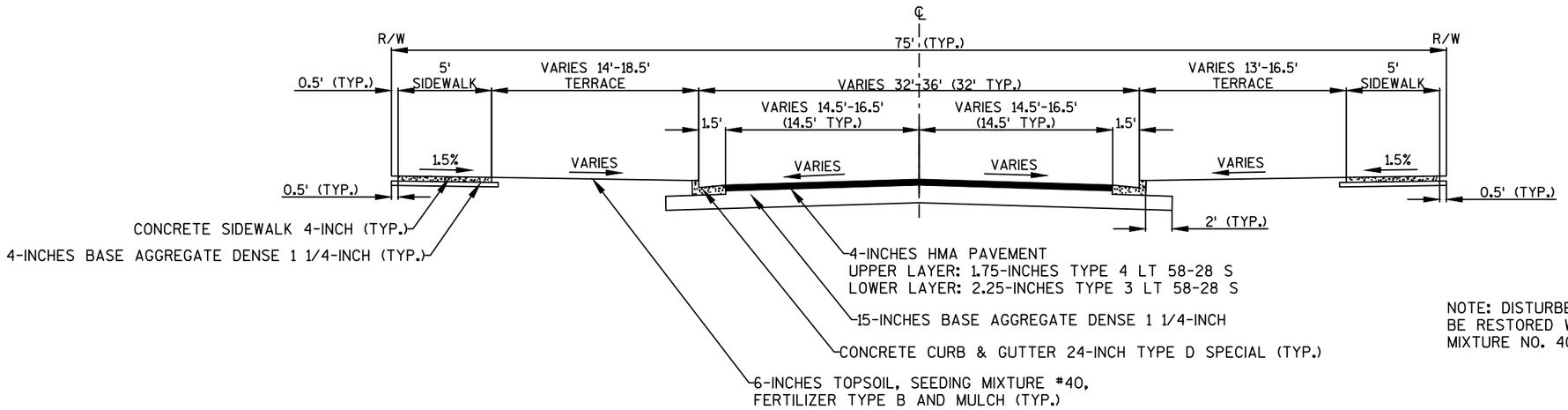
FINISHED TYPICAL SECTION - N. 8TH STREET (WIS 32)

STA. 114+25 TO STA. 119+00



STA. 116+96 TO STA. 119+00

PROJECT NO: 4085-42-71	HWY: WIS 32 (8TH STREET)	COUNTY: BROWN	TYPICAL SECTIONS	SHEET 6	E



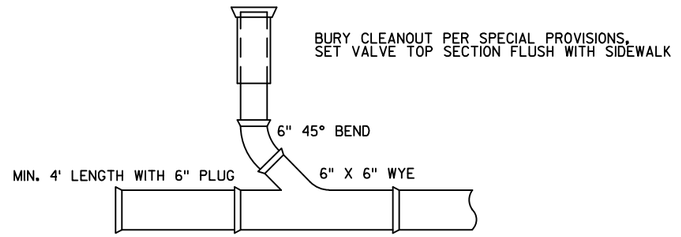
NOTE: DISTURBED AREAS BEHIND THE SIDEWALK SHALL BE RESTORED WITH 6-INCHES OF TOPSOIL, SEEDING MIXTURE NO. 40, FERTILIZER TYPE B AND MULCH.

FINISHED TYPICAL SECTION - SIDE STREETS

OAK STREET, PINE STREET, CEDAR STREET, ELM STREET, SPRUCE STREET, ASH STREET

2

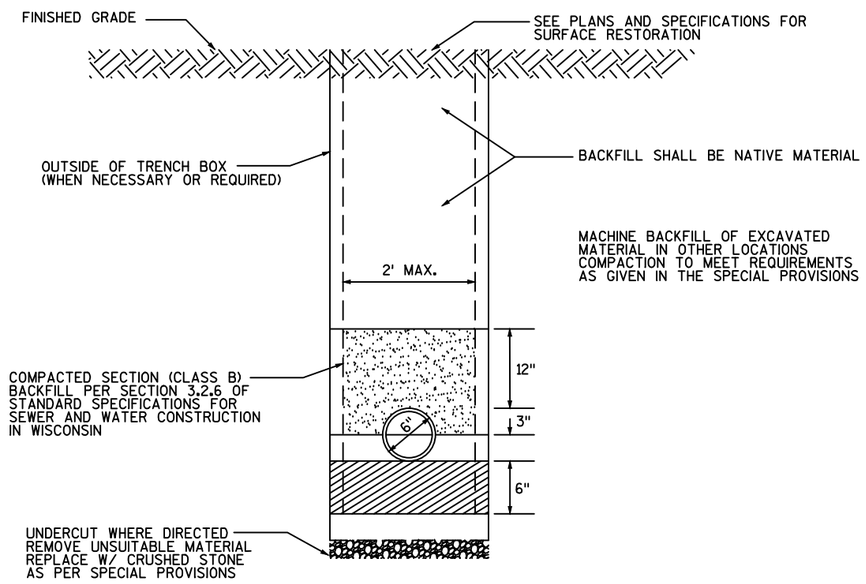
USE VALVE BOX TOP SECTION WITH COVER MARKED "SEWER"



TYPICAL MINI STORM SEWER CLEANOUT DETAIL

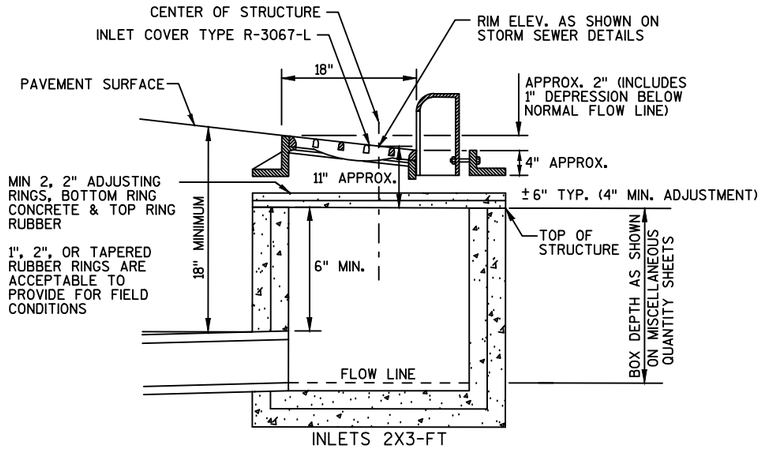
SCALE: NONE

MAX. TRENCH WIDTH: 9" + 6" PIPE + 9". WHEN TRENCH IS LESS THAN 5' DEEP



TYPICAL MINI STORM SEWER AND MINI STORM SEWER LATERAL TRENCH AND BEDDING DETAIL

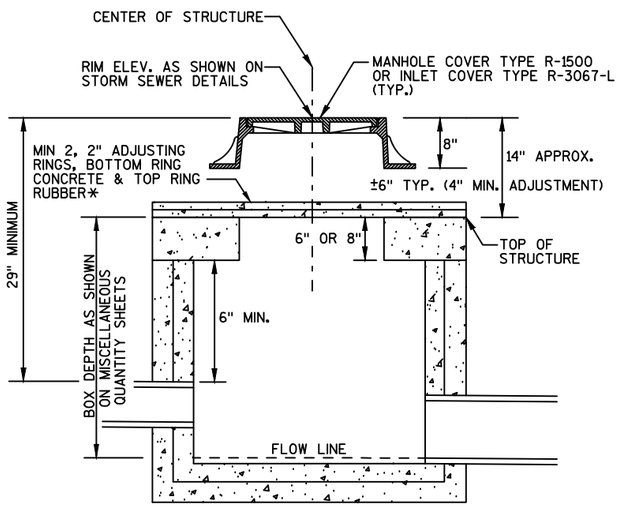
SCALE: NONE



DETAIL FOR COMPUTING INLET ELEVATIONS

SCALE: NONE

STATION, OFFSETS FOR ROUND STRUCTURES ARE TO CENTER OF STRUCTURE



NOTE: SOME STORM SEWER MANHOLES HAVE OFFSET CONES. SEE MISCELLANEOUS QUANTITY SHEETS AND STORM SEWER DETAILS FOR LOCATIONS.

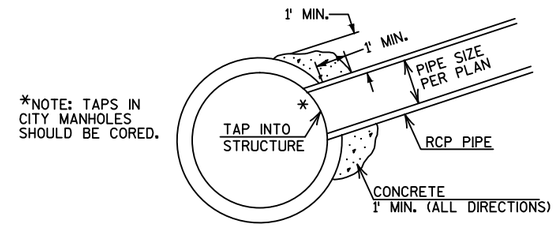
*1", 2", OR TAPERED RUBBER RINGS ARE ACCEPTABLE TO PROVIDE FOR FIELD CONDITIONS

DETAIL FOR COMPUTING ROUND STRUCTURE ELEVATIONS

SCALE: NONE

NOTE: CONCRETE INCIDENTAL TO INSTALLATION OF STORM SEWER PIPE

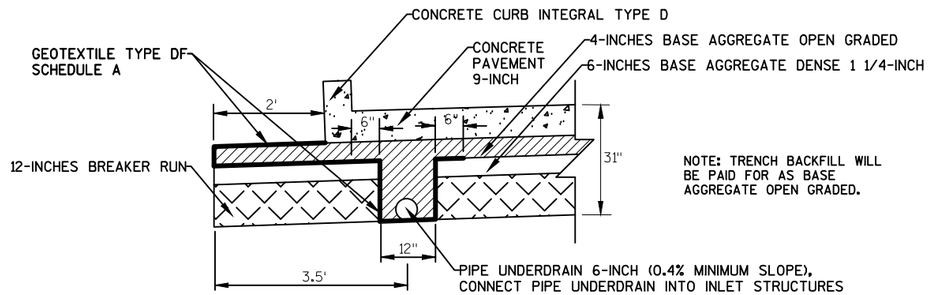
NO PIPE TO PROTRUDE INTO MANHOLE



PLAN VIEW

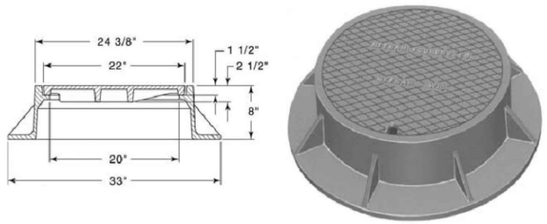
STORM SEWER MANHOLE CONNECTION DETAIL

SCALE: NONE

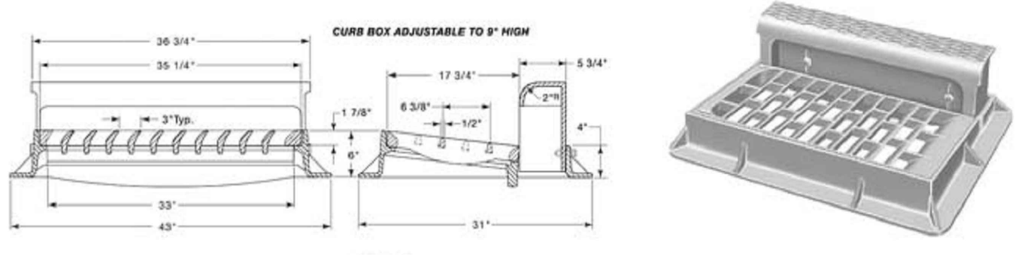


PIPE UNDERDRAIN 6-INCH DETAIL

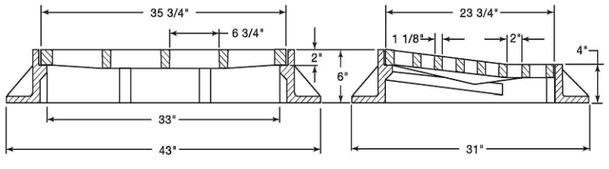
SCALE: NONE



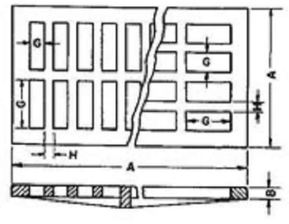
MANHOLE COVER TYPE R-1500 DETAIL
SCALE: NONE



INLET COVER TYPE R-3067-L DETAIL
SCALE: NONE

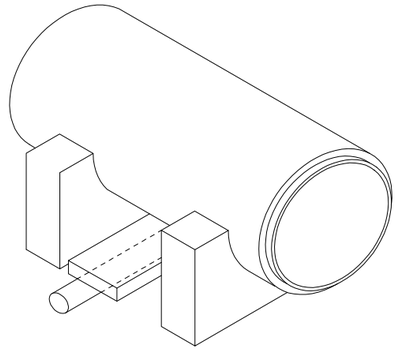


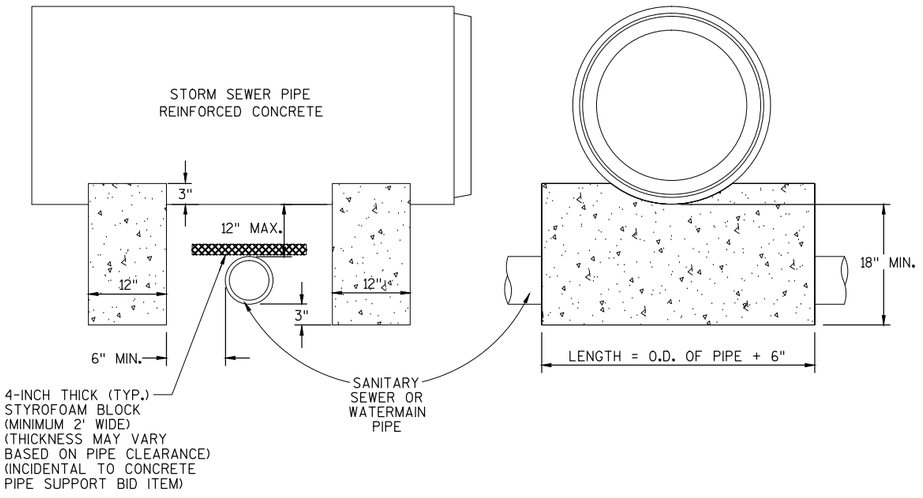
INLET COVER TYPE R-3290-A DETAIL
SCALE: NONE



Catalog Number	A	B	G	H	Type
R-4882	34 x 34	2	2 x 14 1/2	1-1/8	A

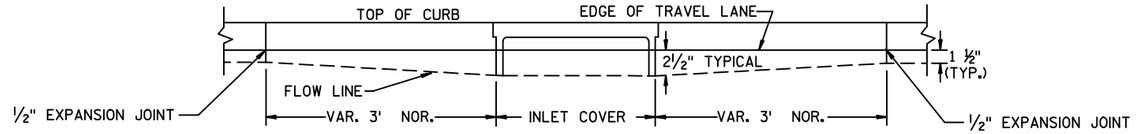
INLET COVER TYPE R-4882 DETAIL
SCALE: NONE



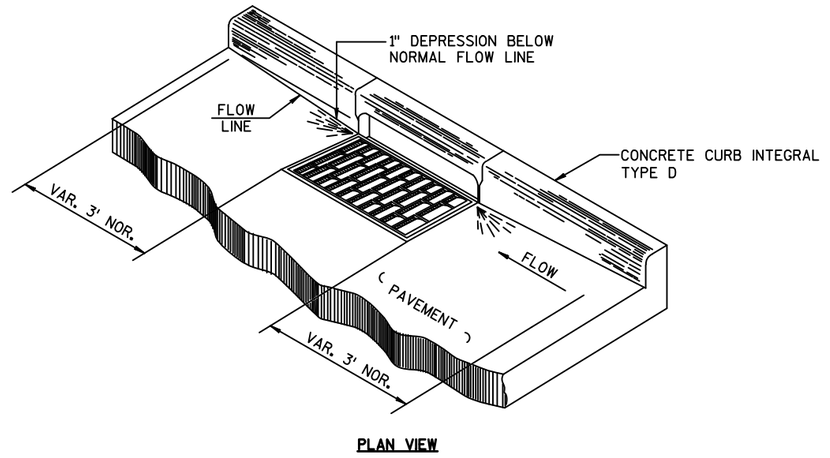


NOTE:
1. FIELD POURED, CONCRETE PIPE SUPPORT SHALL BE INSTALLED FOR STORM SEWERS WHEN CLEARANCE BETWEEN BOTTOM OF PIPE AND TOP OF SANITARY SEWER OR WATERMAIN PIPE IS 12-INCHES OR LESS.

CONCRETE PIPE SUPPORT DETAIL
SCALE: NONE

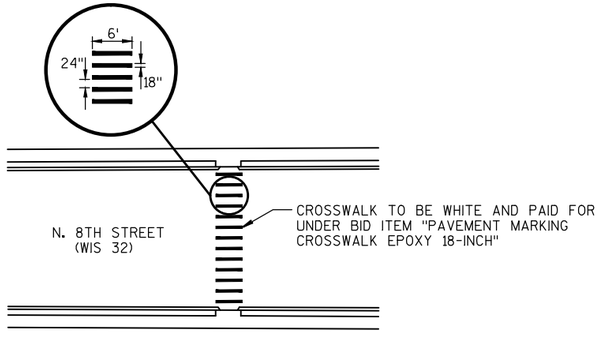


ELEVATION VIEW



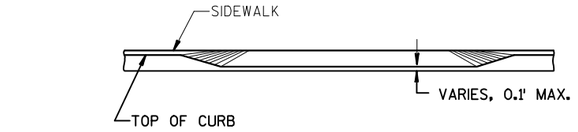
PLAN VIEW

DETAIL OF INTEGRAL CURB AT INLETS
SCALE: NONE



NOTES:
1. CROSSWALKS HAVE 18-INCH WIDE, 6-FOOT LONG CROSSBARS PLACED IN LINE WITH THE TRAFFIC FLOW.
2. THE SPACING OR GAP BETWEEN THE CROSSBARS IS 24-INCHES.
3. THE CROSSBARS SHOULD BE PLACED IN A MANNER THAT MINIMIZES CONTACT WITH VEHICLES TIRES.
4. TO BE INSTALLED AT ALL CROSSWALK LOCATIONS THAT CROSS N. 8TH STREET (WIS 32).

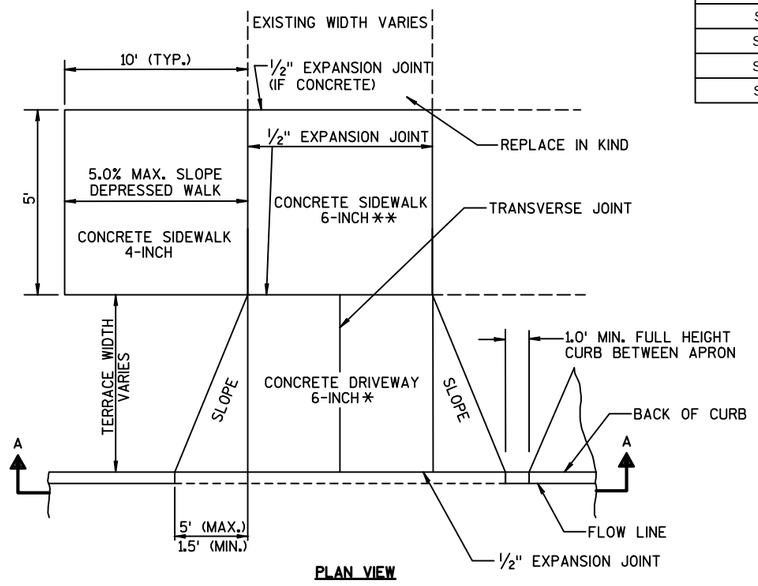
CROSSWALK PAVEMENT MARKING DETAIL
SCALE: NONE



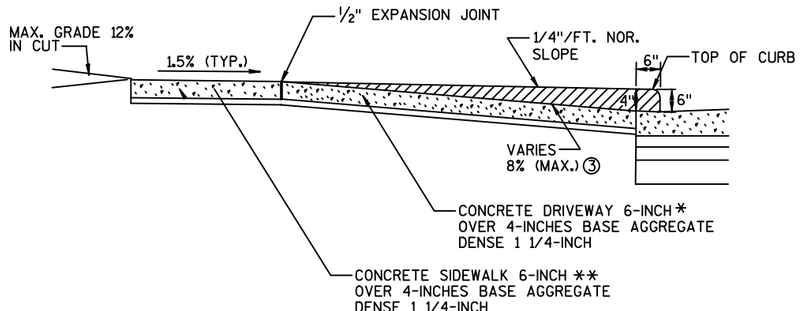
SECTION A-A

*CONCRETE DRIVEWAY 8-INCH
**CONCRETE SIDEWALK 8-INCH
AT THE FOLLOWING LOCATIONS:

8-INCH COMMERCIAL DRIVEWAYS
STA 112+10RT
STA112+77RT
STA 114+47RT
STA 115+44RT
STA 118+71LT



PLAN VIEW



PROFILE VIEW

NOTES:

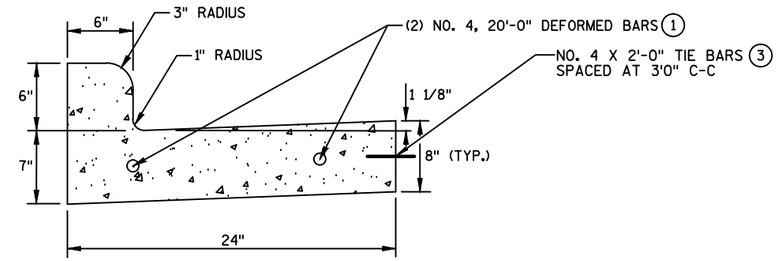
① CITY OF DE PERE DRIVEWAY WIDTH RESTRICTIONS
RESIDENTIAL 25' MAX AT ROW
35' MAX AT CURB
INDUSTRIAL 35' MAX AT ROW
75' MAX AT CURB

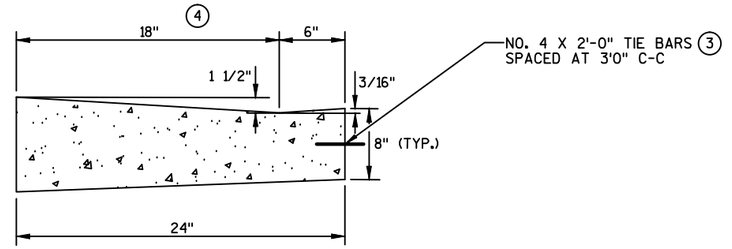
DRIVEWAYS TO BE REPLACED AT EXISTING WIDTHS UNLESS ABOVE CODE.

② DRIVEWAY SURFACE BEHIND SIDEWALK SHALL BE REPLACED IN-KIND WITH MINIMUM SECTION OF:
ASPHALT-3" ASPHALTIC SURFACE ON 4" BASE AGGREGATE DENSE 1 1/4-INCH
CONCRETE-CONCRETE DRIVEWAY 6-INCH ON 4" BASE AGGREGATE DENSE 1 1/4-INCH
BASE AGG-6" BASE AGGREGATE DENSE 3/4-INCH (PAVE 4' WIDE ASPHALTIC SURFACE AT BACK OF WALK PRIOR TO PLACEMENT OF AGG)

③ EXISTING DRIVEWAYS STEEPER THAN 8% MAX. MAY BE REINSTALLED GREATER THAN 8% MAX.

URBAN DRIVEWAY DETAIL
SCALE: NONE





NOTES:

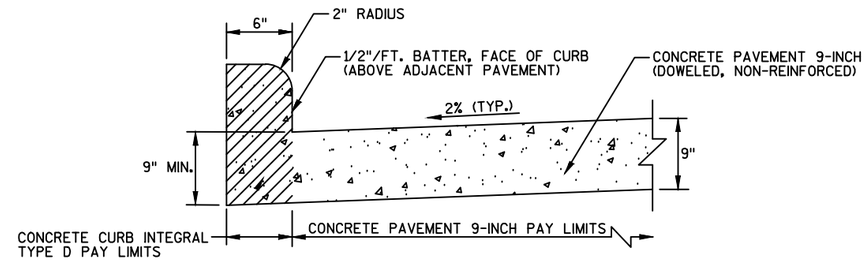
① (2) NO. 4, 20'-0" DEFORMED BARS SHALL BE INSTALLED CENTERED OVER EACH SERVICE AND UTILITY TRENCH OR AS DIRECTED BY THE ENGINEER. FOR TRENCHES LYING UNDER THE CURB AND RUNNING PARALLEL TO THE CURB, THE BARS SHALL BE INSTALLED THE FULL LENGTH OF THE TRENCH.

② ALL EXPOSED EDGES OF CONCRETE SHALL BE FINISHED WITH AN EDGING TOOL HAVING A RADIUS OF 1/4-INCH UNLESS OTHERWISE NOTED.

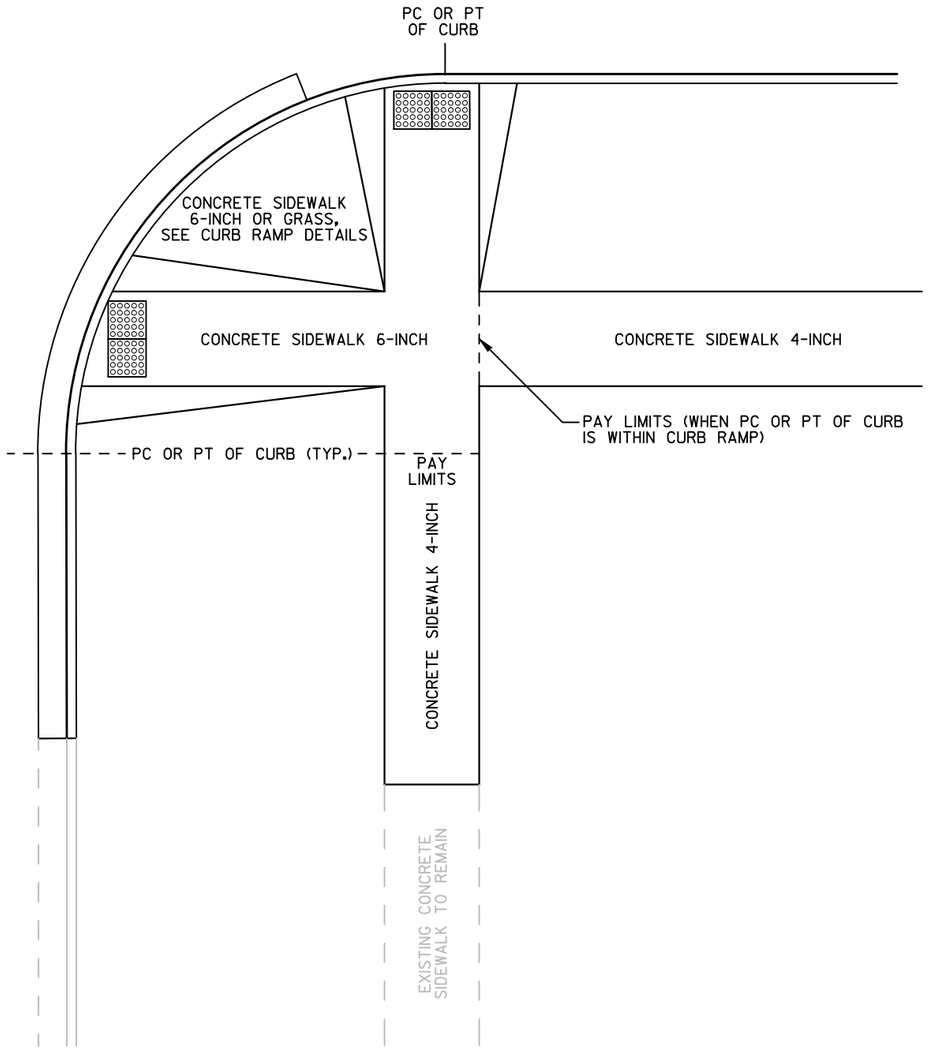
③ TIE BARS WILL BE USED FOR TYPE A CURB & GUTTER ONLY.

④ CROSSWALK/HANDICAP RAMP SECTION (PAY AS CONCRETE CURB & GUTTER 24-INCH TYPE A SPECIAL)
STATIONS: 113+00, RT & 113+60, RT

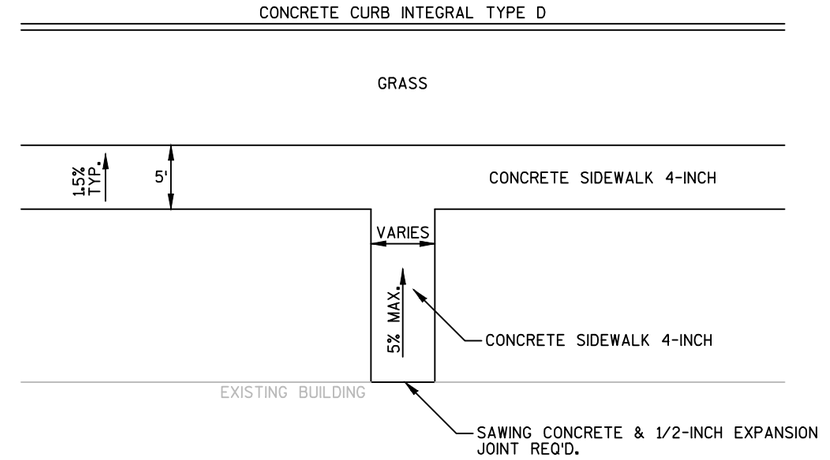
CONCRETE CURB & GUTTER 24-INCH TYPES A & D, SPECIAL DETAIL
SCALE: NONE



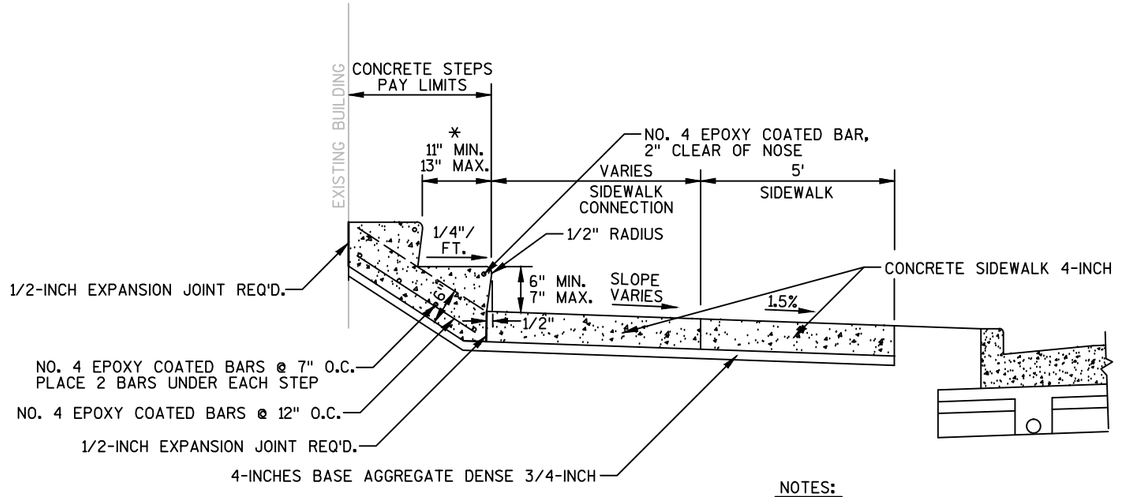
CONCRETE CURB INTEGRAL TYPE D DETAIL
SCALE: NONE



CONCRETE SIDEWALK 6-INCH PAY LIMITS DETAIL
SCALE: NONE



PRIVATE SIDEWALK CONNECTION DETAIL
SCALE: NONE



* STEPS AT STA. 112+62, RT SHALL BE 20" MAX. TREAD WIDTH

STA. 112+62, RT - 2 STEPS
STA. 113+00, RT - 2 STEPS
STA. 113+25, RT - 1 STEP

NOTES:

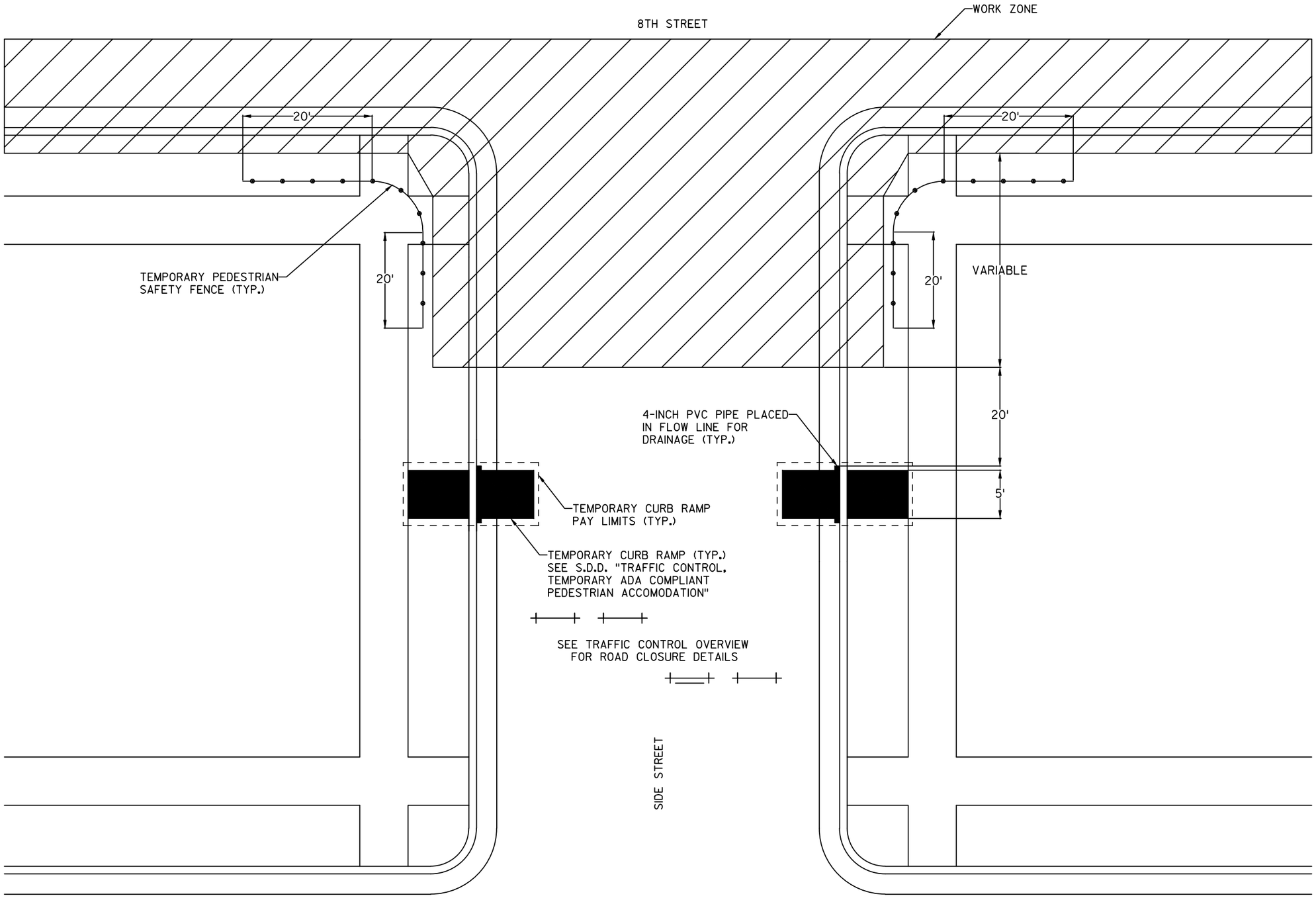
THE EXACT LOCATION, WIDTH, & NUMBER OF STEPS TO BE DETERMINED BY THE ENGINEER IN THE FIELD.

BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2-INCHES CLEAR.

MINIMUM WIDTH OF STEP EQUALS 4-FEET.

CONCRETE STEPS DETAIL
SCALE: NONE

2

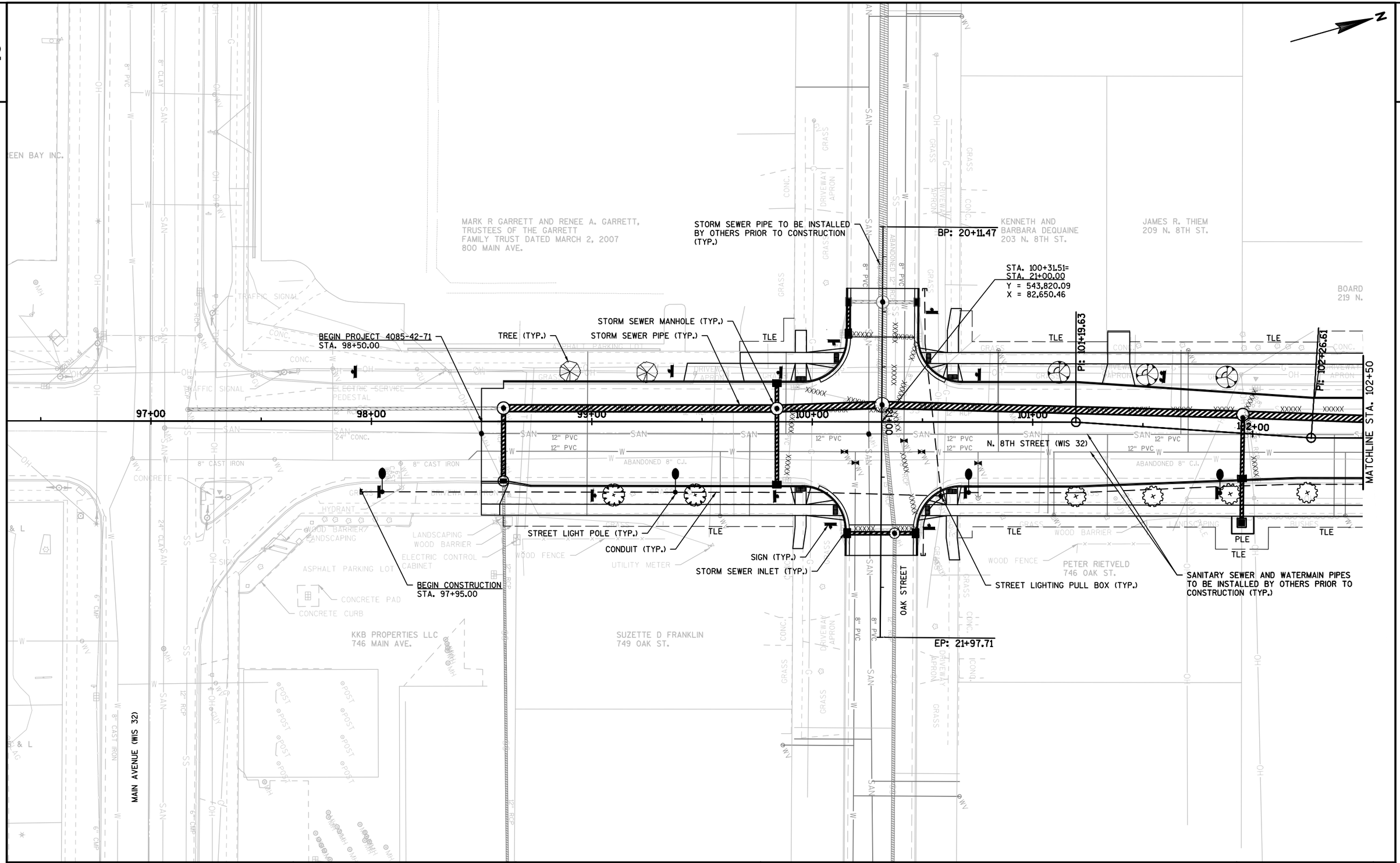


USE ON ALL SIDE STREETS CLOSED TO THRU TRAFFIC ACROSS 8TH STREET.

TEMPORARY CROSSWALK DETAIL - SIDE STREET CROSSINGS
SCALE: NONE

PROJECT NO: 4085-42-71	HWY: WIS 32 (8TH STREET)	COUNTY: BROWN	CONSTRUCTION DETAILS	SHEET 14	E

2



PROJECT NO: 4085-42-71	HWY: WIS 32 (8TH STREET)	COUNTY: BROWN	OVERVIEW DETAILS	SHEET	E

FILE NAME : P:\90S\93\00093265\CADD\SHEETSPLAN\OVERVIEW PLANS.DWG
LAYOUT NAME - OVERVIEW PLANS - 020202-PO

PLOT DATE : 7/13/2016 2:38 PM PLOT BY : JASON DOLENS PLOT NAME : PLOT SCALE : 77/256" = 1'-0"_XREF_XREF_XREF_XREF

2

N

BRENT AND BOBBIE ASHPOLE
808 PINE ST.

LARRY AND WENDI LEMMEN
810 CEDAR ST.

MARILYN J. EBBEN AND ALLEN DEGROOT
301 N. 8TH ST.

ANDREW D. ROBBINS
311 N. 8TH ST.

WOBIN ZHANG AND RENWEN YU
309 N. 8TH ST.

ROGER MAHLER AND TAMMY VALLEY
802 CEDAR ST.

WALK PROPERTIES, LLC
8TH ST.

BP: 30+04.21

BP: 40+10.91

STA. 103+56.28=
STA. 31+00.00
Y = 544,107.57
X = 82,801.22

STA. 106+82.00=
STA. 41+00.00
Y = 544,402.13
X = 82,939.86

PI: 104+20.43

PI: 105+27.42

STORM SEWER MANHOLE (TYP.)

STORM SEWER INLET (TYP.)

MATCHLINE STA. 102+50

MATCHLINE STA. 108+50

103+00

104+00

105+00

106+00

107+00

108+00

108+31

STORM SEWER PIPE (TYP.)

N. 8TH STREET (WIS 32)

CONDUIT (TYP.)

STREET LIGHTING PULL BOX (TYP.)

TREE (TYP.)

STREET LIGHT POLE (TYP.)

SIGN (TYP.)

STREET LIGHTING CONTROL CABINET

SANITARY SEWER AND WATERMAIN PIPES TO BE INSTALLED BY OTHERS PRIOR TO CONSTRUCTION (TYP.)

PINE STREET

CEDAR STREET

EP: 31+90.60

EP: 41+96.49

CAROLYN H COOPER
218 N. EIGHTH ST.

PAUL R KNOPE
746 PINE ST.

DAVID AND KATHY LEMKE
745 CEDAR ST.

CLARICE A. KONSHAK
404 N. EIGHTH ST.

ROBERT J. SMITS, JR AND JOANNE C. WICKER
738 PINE ST.

MARK S. BELLIN
738 CEDAR ST.

PATRICK J. ROFFERS
734 PINE ST.

PATRICIA L. MELCHOIR
739 CEDAR ST.

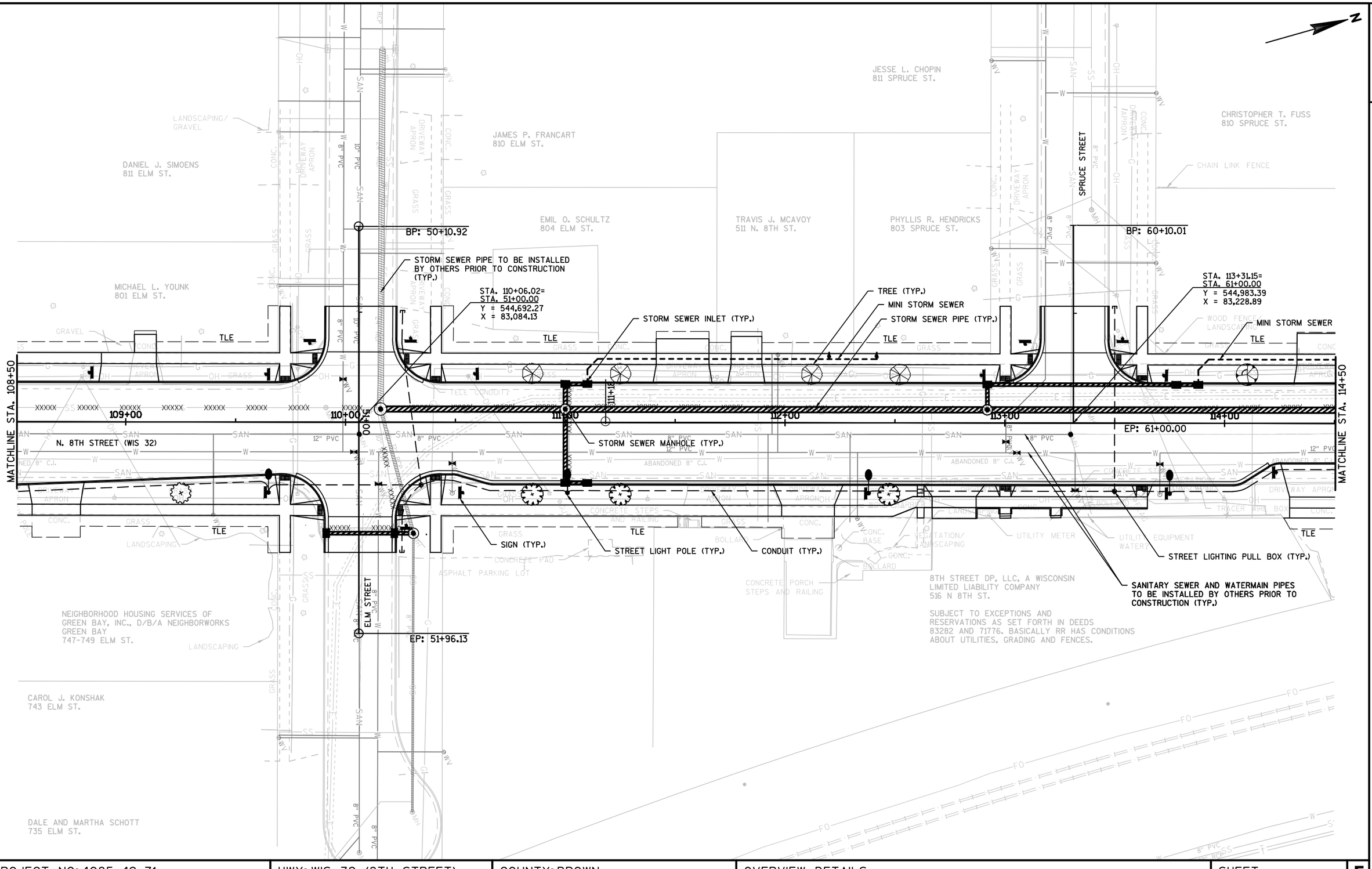
PROJECT NO: 4085-42-71	HWY: WIS 32 (8TH STREET)	COUNTY: BROWN	OVERVIEW DETAILS	SHEET	E

FILE NAME : P:\90S\93\00093265\CADD\SHEETSPLAN\OVERVIEW PLANS.DWG
LAYOUT NAME - OVERVIEW PLANS - 020203-PO

PLOT DATE : 7/13/2016 2:38 PM PLOT BY : JASON DOLENS PLOT NAME : PLOT SCALE : 77/256" = 1'-0"

XREF XREF XREF XREF

2



PROJECT NO: 4085-42-71	HWY: WIS 32 (8TH STREET)	COUNTY: BROWN	OVERVIEW DETAILS	SHEET	E

FILE NAME : P:\90S\93\00093265\CADD\SHEETSPLAN\OVERVIEW PLANS.DWG
LAYOUT NAME - OVERVIEW PLANS - 020204-PO

PLOT DATE : 10/25/2016 1:19 PM PLOT BY : JASON DOLENS PLOT NAME : PLOT SCALE : 77/256" = 1'-0"_XREF_XREF_XREF_XREF

2

JOHN W. MARRICK
802 SPRUCE ST.

KARL D.
WACHHOLZ
803 ASH ST.

F & O PARTNERSHIP LLP
806 ASH ST.

F&O PARTNERSHIP
WISCONSIN LIMITED
LIABILITY PARTNERSHIP

ASH STREET

BP: 69+91.15

70+00

STA. 116+56.34=
STA. 71+00.00
Y = 545,278.00
X = 83,366.29

PC: 114+57.57

MINI STORM SEWER

TREE (TYP.)

TLE

MATCHLINE STA. 114+50

115+00

116+00

117+00

118+00

119+00

PT: 118+11.67

EP: 119+20.74

STORM SEWER MANHOLE (TYP.)

STORM SEWER PIPE (TYP.)

EP: 71+00.00

N. 8TH STREET (WIS 32)

END PROJECT 4085-42-71
STA 119+00.00

STREET LIGHTING PULL BOX

SIGN (TYP.)

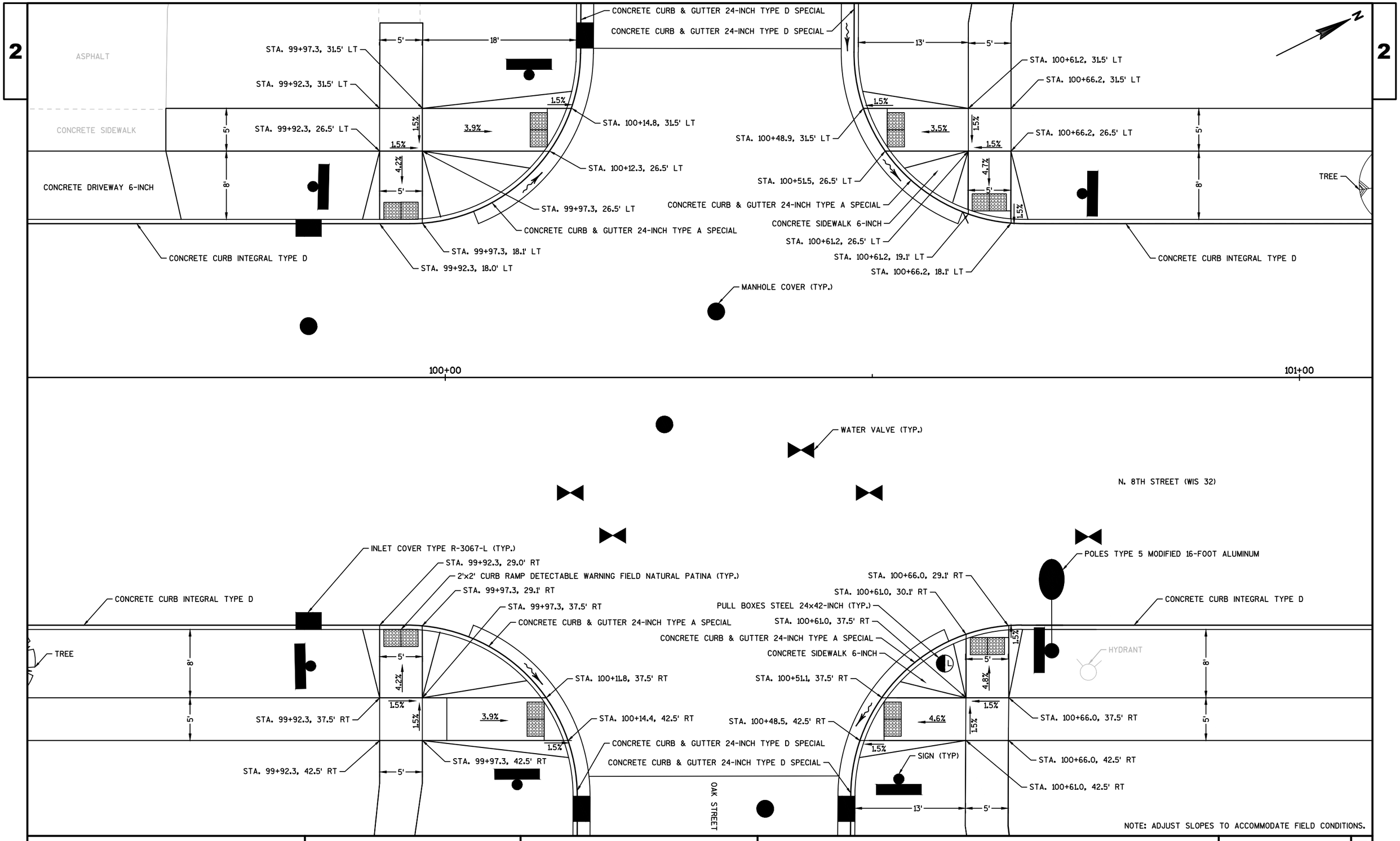
CONDUIT (TYP.)

STREET LIGHT POLE (TYP.)

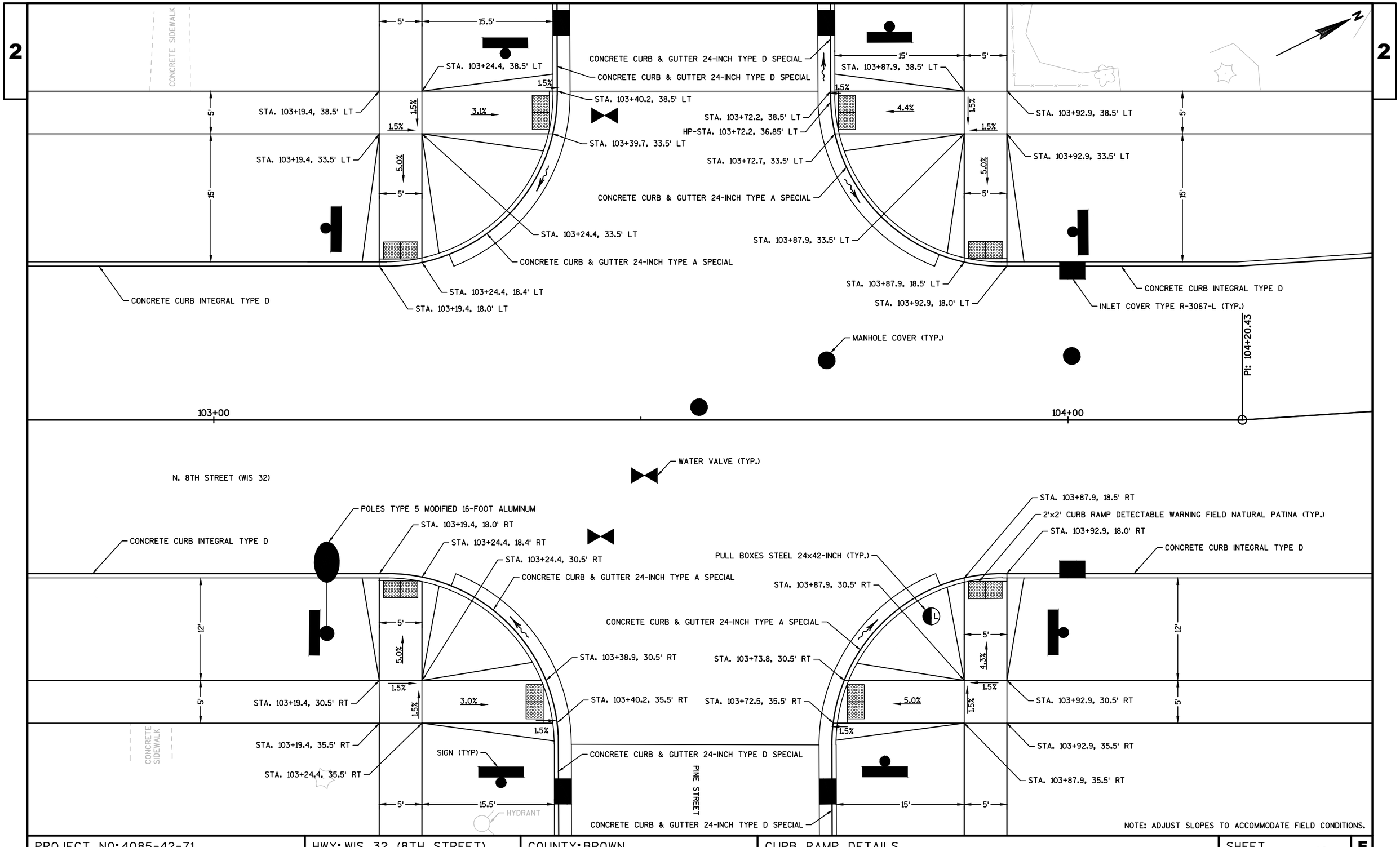
STORM SEWER INLET (TYP.)

WATERMAIN PIPE TO BE INSTALLED BY
OTHERS PRIOR TO CONSTRUCTION (TYP.)

PROJECT NO: 4085-42-71	HWY: WIS 32 (8TH STREET)	COUNTY: BROWN	OVERVIEW DETAILS	SHEET 18	E



PROJECT NO: 4085-42-71	HWY: WIS 32 (8TH STREET)	COUNTY: BROWN	CURB RAMP DETAILS	SHEET 19	E



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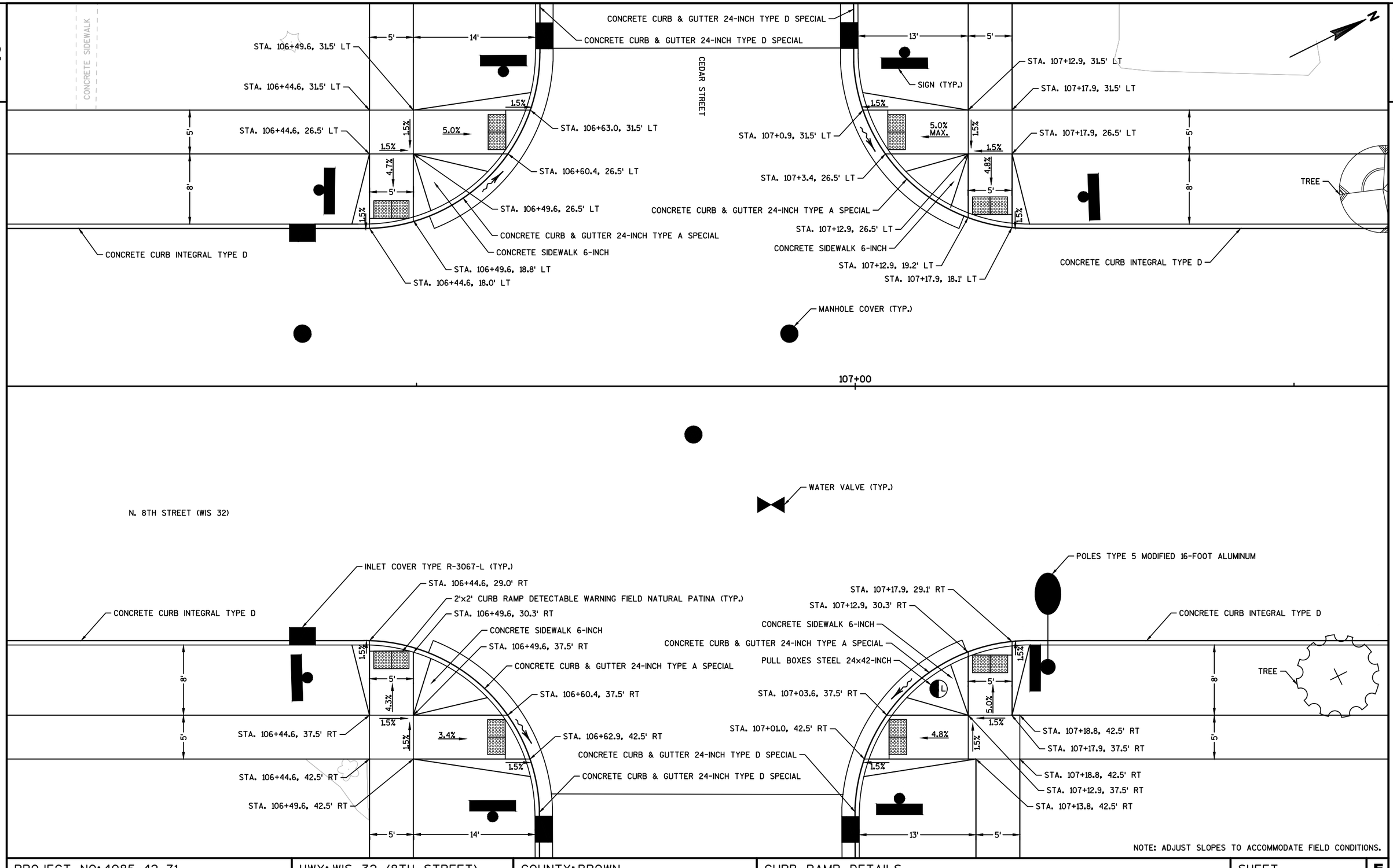
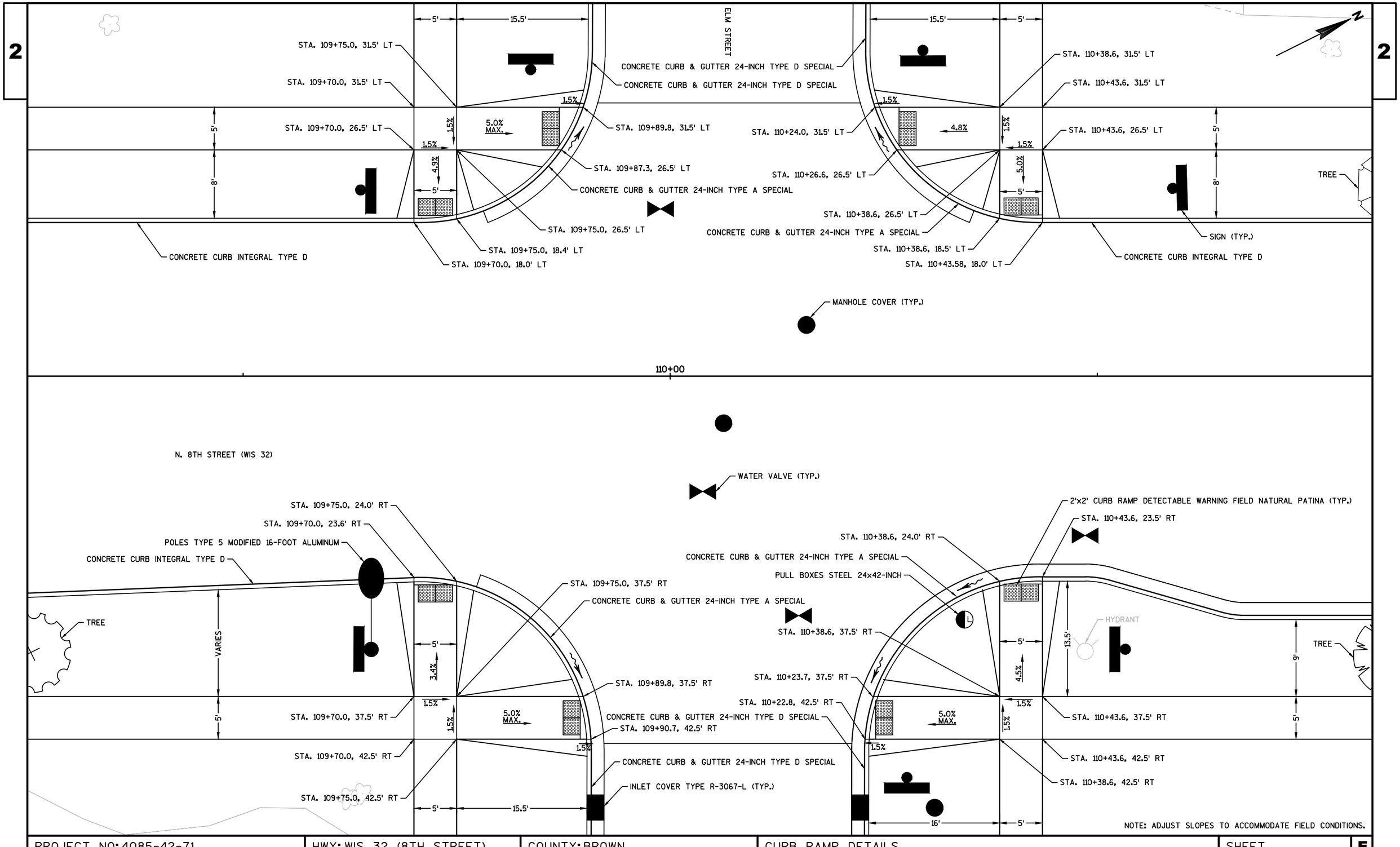


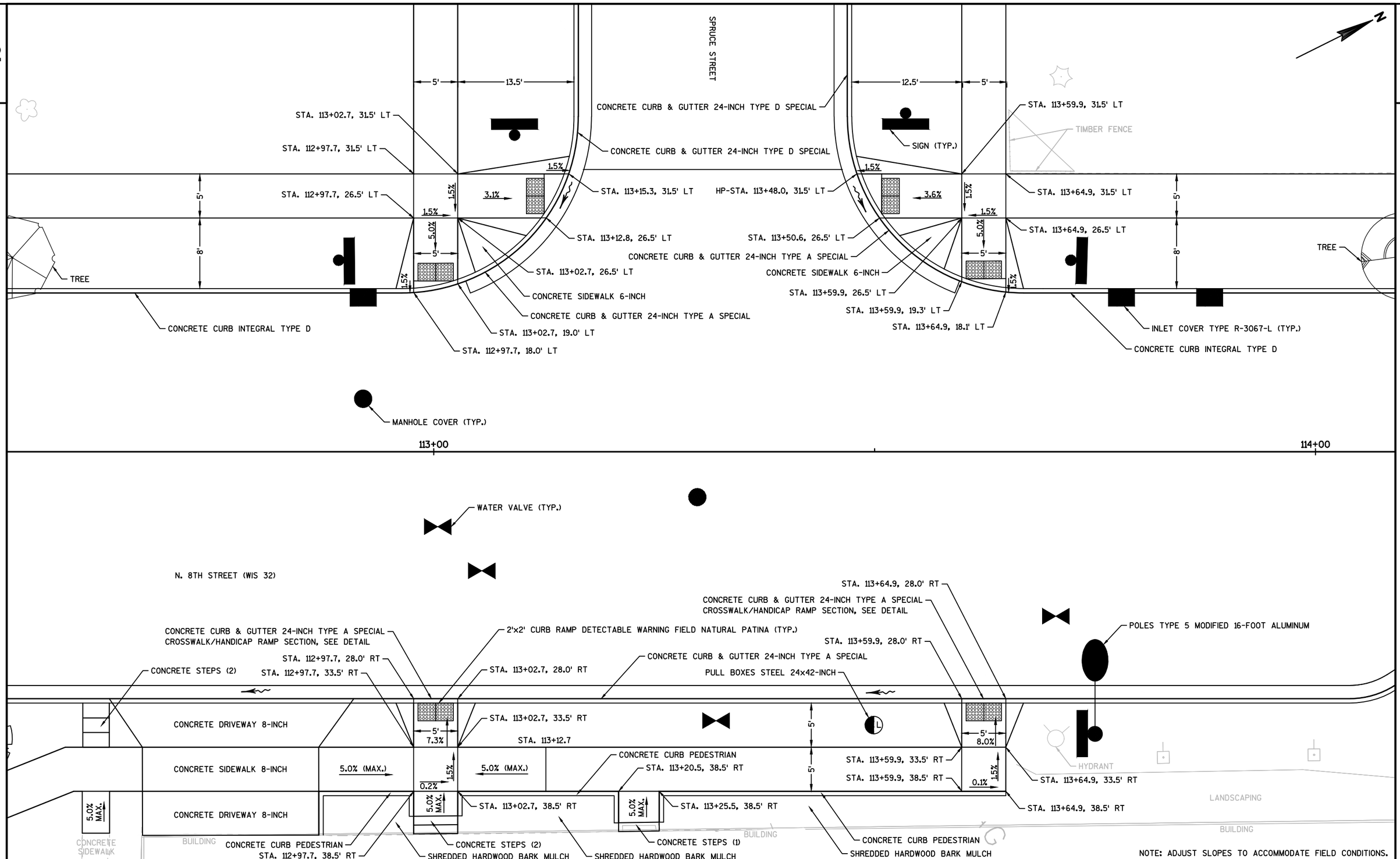
PROJECT NO: 4085-42-71	HWY: WIS 32 (8TH STREET)	COUNTY: BROWN	CURB RAMP DETAILS	SHEET	E

FILE NAME : P:\90S\93\00093265\CADD\SHEETSPLAN\CURB RAMP DETAILS.DWG PLOT DATE : 7/13/2016 3:04 PM PLOT BY : JASON DOLENS PLOT NAME : PLOT SCALE : 1"=10' Real_XREF
WISDOT/CADDS SHEET 42



PROJECT NO: 4085-42-71	HWY: WIS 32 (8TH STREET)	COUNTY: BROWN	CURB RAMP DETAILS	SHEET	E

FILE NAME : P:\90S\93\00093265\CADD\SHEETSPLAN\CURB RAMP DETAILS.DWG PLOT DATE : 7/13/2016 3:04 PM PLOT BY : JASON DOLENS PLOT NAME : PLOT SCALE : 1"=10' Real_XREF
WISDOT/CADDS SHEET 42



PROJECT NO: 4085-42-71	HWY: WIS 32 (8TH STREET)	COUNTY: BROWN	CURB RAMP DETAILS	SHEET 23 E

2

2

ASH STREET

ASPHALT

5'

13.5'

13.5'

5'

CONCRETE CURB & GUTTER 24-INCH TYPE D SPECIAL

CONCRETE CURB & GUTTER 24-INCH TYPE D SPECIAL

STA. 116+91.8, 33.0' LT

STA. 116+96.9, 32.9' LT

SIGN (TYP.)

1.5%

4.8%

1.5%

1.5%

STA. 116+96.3, 27.0' LT

STA. 116+79.0, 33.0' LT

STA. 116+26.5, 30.7' LT

STA. 116+21.4, 31.0' LT

CONCRETE CURB & GUTTER 24-INCH TYPE A SPECIAL

1.5%

1.5%

3.5%

5'

STA. 116+21.1, 26.0' LT

STA. 116+39.4, 29.8' LT

STA. 116+81.7, 27.0' LT

CONCRETE CURB & GUTTER 24-INCH TYPE A SPECIAL

1.5%

1.5%

5'

STA. 116+26.2, 25.7' LT

STA. 116+91.2, 27.0' LT

2'x2' CURB RAMP DETECTABLE WARNING FIELD NATURAL PATINA (TYP.)

CONCRETE CURB INTEGRAL TYPE D

STA. 116+36.3, 25.0' LT

INLET COVER TYPE R-3067-L (TYP.)

STA. 116+25.83, 20.7' LT

CONCRETE SIDEWALK 6-INCH

CONCRETE CURB INTEGRAL TYPE D

STA. 116+14.00

MANHOLE COVER (TYP.)

117+00

116+00

N. 8TH STREET (WIS 32)

WATER VALVE (TYP.)

POLES TYPE 5 MODIFIED 16-FOOT ALUMINUM

CONCRETE CURB INTEGRAL TYPE D

PULL BOXES STEEL 24x42-INCH

HYDRANT

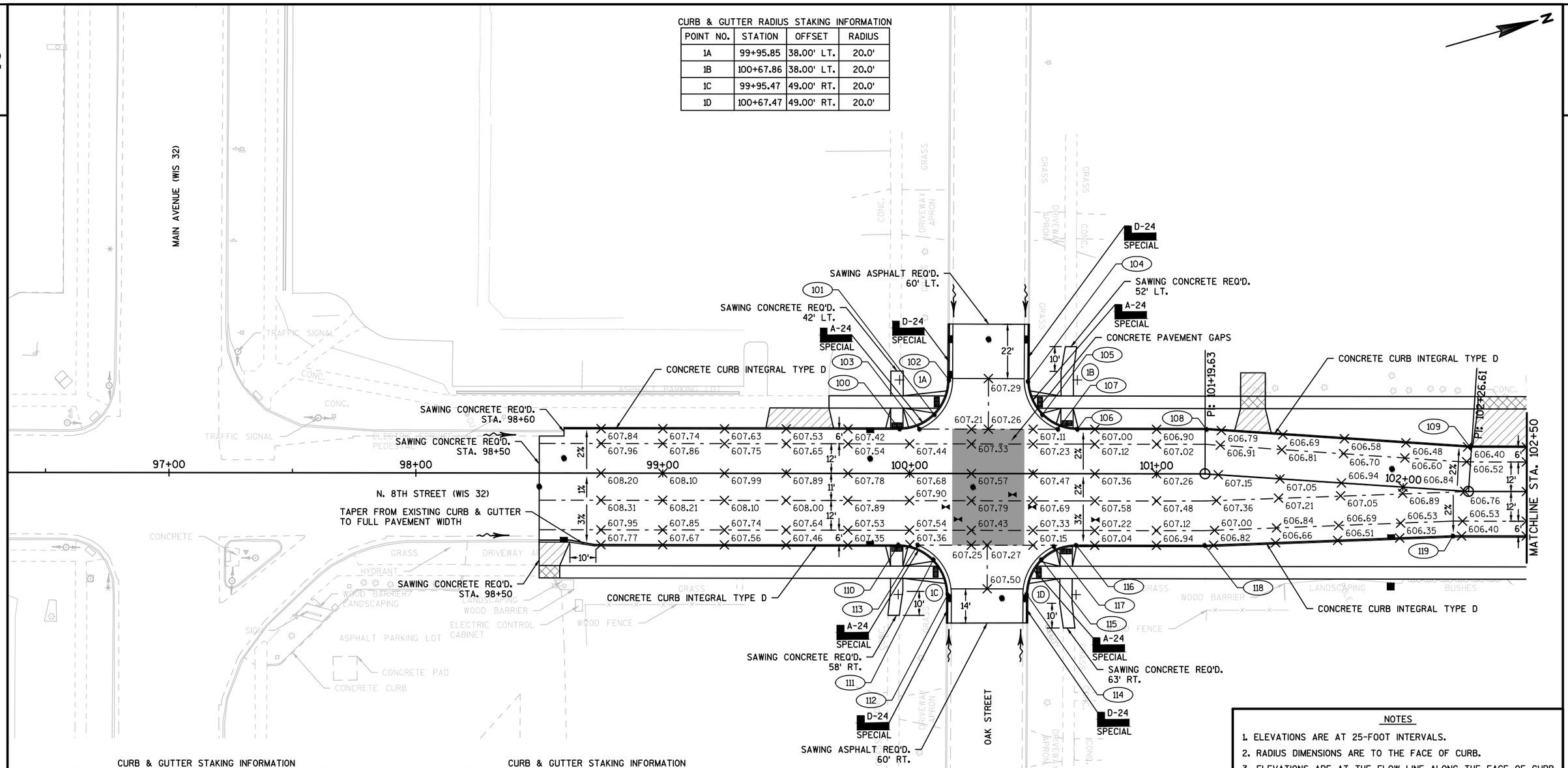
NOTE: ADJUST SLOPES TO ACCOMMODATE FIELD CONDITIONS.

PROJECT NO: 4085-42-71	HWY: WIS 32 (8TH STREET)	COUNTY: BROWN	CURB RAMP DETAILS	SHEET 24	E

2

CURB & GUTTER RADIUS STAKING INFORMATION

POINT NO.	STATION	OFFSET	RADIUS
1A	99+95.85	38.00' LT.	20.0'
1B	100+67.86	38.00' LT.	20.0'
1C	99+95.47	49.00' RT.	20.0'
1D	100+67.47	49.00' RT.	20.0'



CURB & GUTTER STAKING INFORMATION

POINT NO.	DESCRIPTION	STATION	OFFSET	RADIUS	ELEVATION
100	PC	99+95.85	18.00' LT.	20.0'	607.34
101	MID PT.	100+09.97	23.83' LT.	20.0'	607.18
102	PT	100+15.85	37.91' LT.	20.0'	607.14
103	BEGIN GUTTER	100+03.88	18.00' LT.	21.5'	607.30
104	PC	100+47.88	37.25' LT.	20.0'	607.14
105	MID PT.	100+53.68	23.89' LT.	20.0'	607.13
106	PT	100+67.86	18.00' LT.	20.0'	607.03
107	END GUTTER	100+60.02	18.00' LT.	21.5'	607.07
108	BEND PT.	101+19.63	18.00' LT.	-	606.82
109	BEND PT.	102+27.25	18.00' LT.	-	606.41

CURB & GUTTER STAKING INFORMATION

POINT NO.	DESCRIPTION	STATION	OFFSET	RADIUS	ELEVATION
110	PC	99+95.47	29.00' RT.	20.0'	607.38
111	MID PT.	100+09.64	34.89' RT.	20.0'	607.22
112	PT	100+15.47	49.09' RT.	20.0'	607.17
113	BEGIN GUTTER	100+03.29	29.00' RT.	21.5'	607.34
114	PC	100+47.47	48.91' RT.	20.0'	607.18
115	MID PT.	100+53.36	34.82' RT.	20.0'	607.19
116	PT	100+67.48	29.00' RT.	20.0'	607.08
117	END GUTTER	100+58.43	29.53' RT.	21.5'	607.11
118	BEND PT.	101+19.55	29.00' RT.	-	606.87
119	BEND PT.	102+21.54	18.37' RT.	-	606.41

NOTES

1. ELEVATIONS ARE AT 25-FOOT INTERVALS.
2. RADIUS DIMENSIONS ARE TO THE FACE OF CURB.
3. ELEVATIONS ARE AT THE FLOW LINE ALONG THE FACE OF CURB FOR CONCRETE CURB INTEGRAL TYPE D.

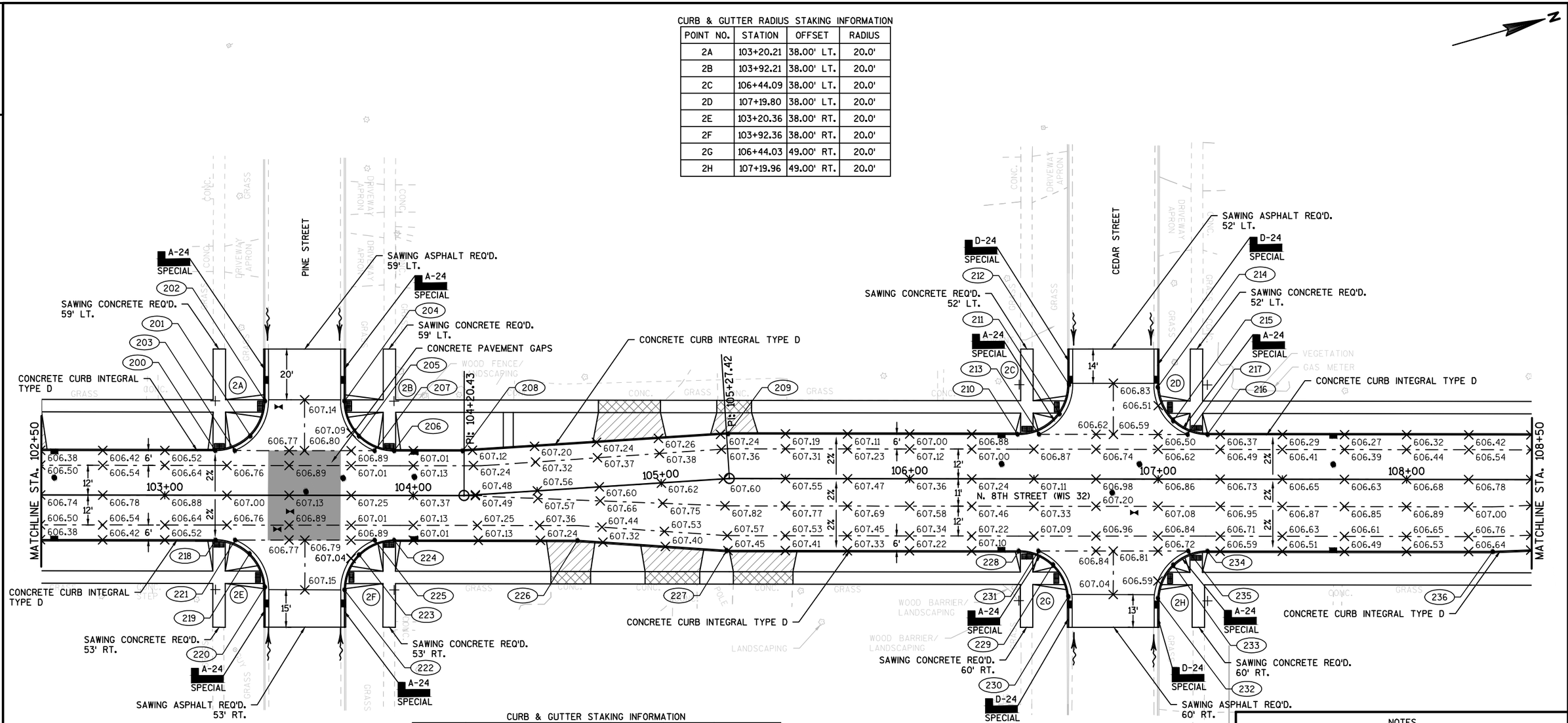
LEGEND

- LONGITUDINAL JOINT
- CONCRETE DRIVEWAY 6-INCH
- CONCRETE SIDEWALK 6-INCH
- X-XX CONCRETE CURB & GUTTER XX-INCH TYPE X
- MANHOLE COVER
- INLET COVER
- WATER VALVE
- DRAINAGE DIRECTION

PROJECT NO: 4085-42-71	HWY: WIS 32 (8TH STREET)	COUNTY: BROWN	PAVING DETAILS	SHEET 25	E

CURB & GUTTER RADIUS STAKING INFORMATION

POINT NO.	STATION	OFFSET	RADIUS
2A	103+20.21	38.00' LT.	20.0'
2B	103+92.21	38.00' LT.	20.0'
2C	106+44.09	38.00' LT.	20.0'
2D	107+19.80	38.00' LT.	20.0'
2E	103+20.36	38.00' RT.	20.0'
2F	103+92.36	38.00' RT.	20.0'
2G	106+44.03	49.00' RT.	20.0'
2H	107+19.96	49.00' RT.	20.0'



CURB & GUTTER STAKING INFORMATION

POINT NO.	DESCRIPTION	STATION	OFFSET	RADIUS	ELEVATION
200	PC	103+20.21	18.00' LT.	20.0'	606.62
201	MID PT.	103+34.36	23.87' LT.	20.0'	606.78
202	PT	103+40.21	38.04' LT.	20.0'	606.93
203	BEGIN GUTTER	103+28.10	18.00' LT.	21.5'	606.66
204	PC	103+72.21	37.96' LT.	20.0'	607.22
205	MID PT.	103+78.08	23.84' LT.	20.0'	606.96
206	PT	103+92.21	18.00' LT.	20.0'	606.98
207	END GUTTER	103+84.39	18.00' LT.	21.5'	606.94
208	BEND PT.	104+19.84	18.00' LT.	-	607.11
209	BEND PT.	105+27.42	18.00' LT.	-	607.24
210	PC	106+43.34	18.00' LT.	20.0'	606.78
211	MID PT.	106+60.28	26.24' LT.	20.0'	606.68

CURB & GUTTER STAKING INFORMATION

POINT NO.	DESCRIPTION	STATION	OFFSET	RADIUS	ELEVATION
212	PT	106+64.06	38.03' LT.	20.0'	606.52
213	BEGIN GUTTER	106+52.02	18.00' LT.	21.5'	606.74
214	PC	106+99.82	36.97' LT.	20.0'	606.46
215	MID PT.	107+06.04	23.48' LT.	20.0'	606.41
216	PT	107+19.85	18.00' LT.	20.0'	606.40
217	END GUTTER	107+11.83	18.00' LT.	21.5'	606.44
218	PC	103+20.45	18.00' RT.	20.0'	606.61
219	MID PT.	103+34.12	23.49' RT.	20.0'	606.69
220	PT	103+40.33	36.85' RT.	20.0'	606.90
221	BEGIN GUTTER	103+28.33	18.00' RT.	21.5'	607.66
222	PC	103+72.36	38.04' RT.	20.0'	607.06
223	MID PT.	103+78.20	23.88' RT.	20.0'	606.93
224	PT	103+92.36	18.00' RT.	20.0'	606.98

CURB & GUTTER STAKING INFORMATION

POINT NO.	DESCRIPTION	STATION	OFFSET	RADIUS	ELEVATION
225	END GUTTER	103+84.52	18.00' RT.	21.5'	606.94
226	BEND PT.	104+64.85	20.95' RT.	-	607.29
227	BEND PT.	105+24.53	28.87' RT.	-	607.45
228	PC	106+43.97	29.00' RT.	20.0'	607.00
229	MID PT.	106+57.78	34.48' RT.	20.0'	606.95
230	PT	106+64.04	47.04' RT.	20.0'	607.01
231	BEGIN GUTTER	106+51.90	29.00' RT.	21.5'	606.96
232	PC	106+99.98	48.03' RT.	20.0'	606.49
233	MID PT.	107+06.16	34.52' RT.	20.0'	606.59
234	PT	107+19.96	29.00' RT.	20.0'	606.62
235	END GUTTER	107+12.18	29.00' RT.	21.5'	606.66
236	BEND PT.	108+34.78	29.00' RT.	-	606.69

NOTES

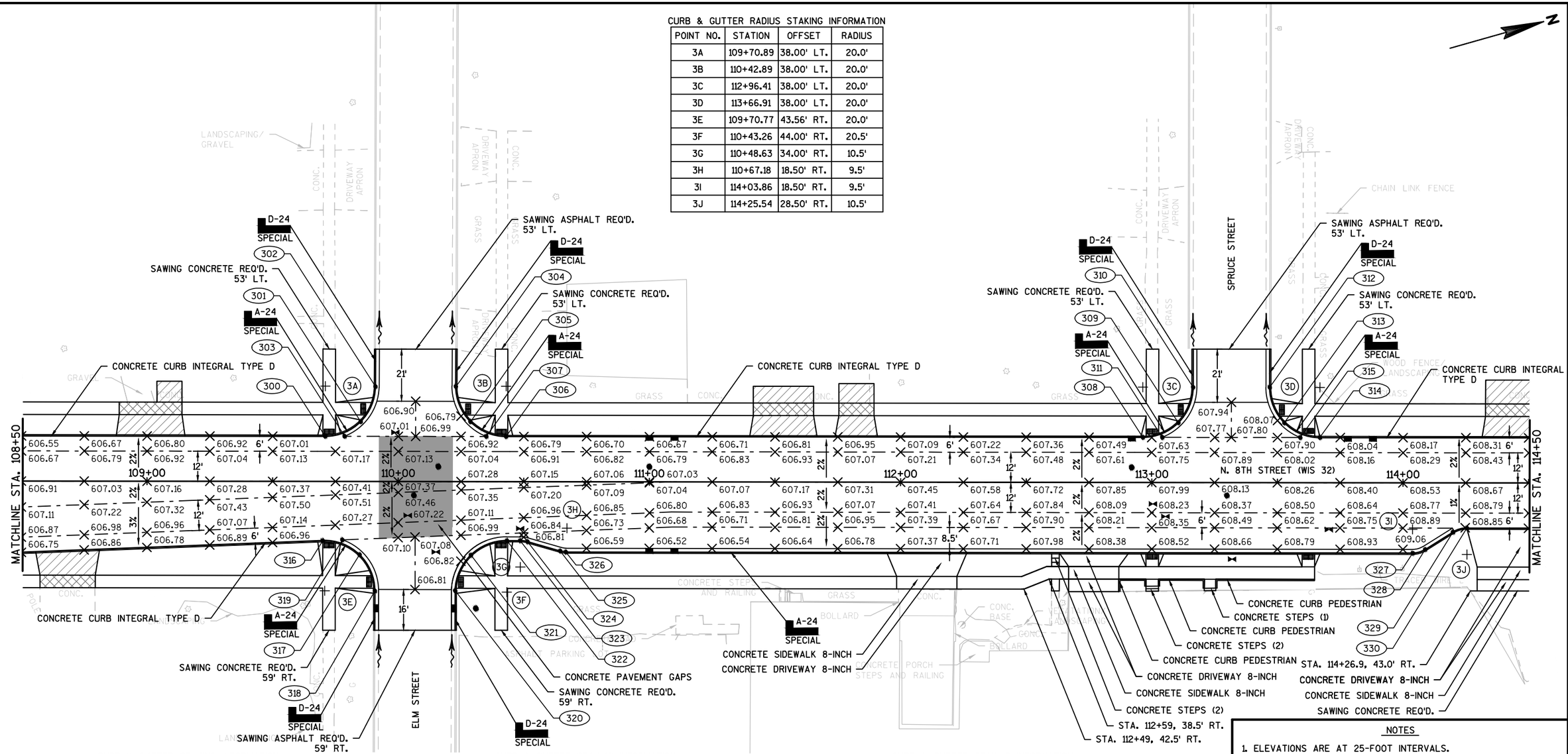
1. ELEVATIONS ARE AT 25-FOOT INTERVALS.
2. RADIUS DIMENSIONS ARE TO THE FACE OF CURB.
3. ELEVATIONS ARE AT THE FLOW LINE ALONG THE FACE OF CURB FOR CONCRETE CURB INTEGRAL TYPE D.

LEGEND

- LONGITUDINAL JOINT
- CONCRETE DRIVEWAY 6-INCH
- CONCRETE SIDEWALK 6-INCH
- X-XX CONCRETE CURB & GUTTER XX-INCH TYPE X
- MANHOLE COVER
- INLET COVER
- WATER VALVE
- DRAINAGE DIRECTION

CURB & GUTTER RADIUS STAKING INFORMATION

POINT NO.	STATION	OFFSET	RADIUS
3A	109+70.89	38.00' LT.	20.0'
3B	110+42.89	38.00' LT.	20.0'
3C	112+96.41	38.00' LT.	20.0'
3D	113+66.91	38.00' LT.	20.0'
3E	109+70.77	43.56' RT.	20.0'
3F	110+43.26	44.00' RT.	20.5'
3G	110+48.63	34.00' RT.	10.5'
3H	110+67.18	18.50' RT.	9.5'
3I	114+03.86	18.50' RT.	9.5'
3J	114+25.54	28.50' RT.	10.5'



CURB & GUTTER STAKING INFORMATION

POINT NO.	DESCRIPTION	STATION	OFFSET	RADIUS	ELEVATION
300	PC	109+70.89	18.00' LT.	20.0'	607.04
301	MID PT.	109+85.03	23.85' LT.	20.0'	606.91
302	PT	109+90.89	37.84' LT.	20.0'	606.80
303	BEGIN GUTTER	109+78.65	18.00' LT.	21.5'	607.04
304	PC	110+22.89	37.86' LT.	20.0'	606.61
305	MID PT.	110+28.74	23.87' LT.	20.0'	606.78
306	PT	110+42.89	18.00' LT.	20.0'	606.83
307	END GUTTER	110+35.04	18.00' LT.	21.5'	606.87
308	PC	112+96.41	18.00' LT.	20.0'	607.61
309	MID PT.	113+10.55	23.87' LT.	20.0'	607.60
310	PT	113+16.41	38.00' LT.	20.0'	607.68

CURB & GUTTER STAKING INFORMATION

POINT NO.	DESCRIPTION	STATION	OFFSET	RADIUS	ELEVATION
311	BEGIN GUTTER	113+04.16	18.00' LT.	21.5'	607.65
312	PC	113+46.91	38.00' LT.	20.0'	608.12
313	MID PT.	113+52.77	23.86' LT.	20.0'	608.09
314	PT	113+66.91	18.00' LT.	20.0'	607.99
315	END GUTTER	113+59.10	18.00' LT.	21.5'	607.95
316	PC	109+69.96	23.58' RT.	20.0'	606.98
317	MID PT.	109+84.63	29.15' RT.	20.0'	606.95
318	PT	109+90.77	43.59' RT.	20.0'	606.76
319	BEGIN GUTTER	109+77.79	23.26' RT.	21.5'	607.15
320	PC	110+22.77	43.47' RT.	20.5'	606.69

CURB & GUTTER STAKING INFORMATION

POINT NO.	DESCRIPTION	STATION	OFFSET	RADIUS	ELEVATION
321	MID PT.	110+28.98	29.30' RT.	20.5'	606.75
322	PT	110+43.34	23.50' RT.	20.5'	606.83
323	PC	110+48.63	23.50' RT.	10.5'	606.79
324	PT	110+51.51	23.90' RT.	10.5'	606.77
325	PC	110+64.57	27.63' RT.	9.5'	606.54
326	PT	110+66.77	28.00' RT.	9.5'	606.52
327	PC	114+03.97	28.00' RT.	9.5'	608.96
328	PT	114+08.91	26.54' RT.	9.5'	608.94
329	PC	114+19.95	19.60' RT.	10.5'	608.79
330	PT	114+25.50	18.00' RT.	10.5'	608.83

NOTES

1. ELEVATIONS ARE AT 25-FOOT INTERVALS.
2. RADIUS DIMENSIONS ARE TO THE FACE OF CURB.
3. ELEVATIONS ARE AT THE FLOW LINE ALONG THE FACE OF CURB FOR CONCRETE CURB INTEGRAL TYPE D.

LEGEND

- LONGITUDINAL JOINT
- CONCRETE DRIVEWAY 6-INCH
- CONCRETE SIDEWALK 6-INCH
- X-XX CONCRETE CURB & GUTTER XX-INCH TYPE X
- MANHOLE COVER
- INLET COVER
- WATER VALVE
- DRAINAGE DIRECTION

PROJECT NO: 4085-42-71	HWY: WIS 32 (8TH STREET)	COUNTY: BROWN	PAVING DETAILS	SHEET 27	E

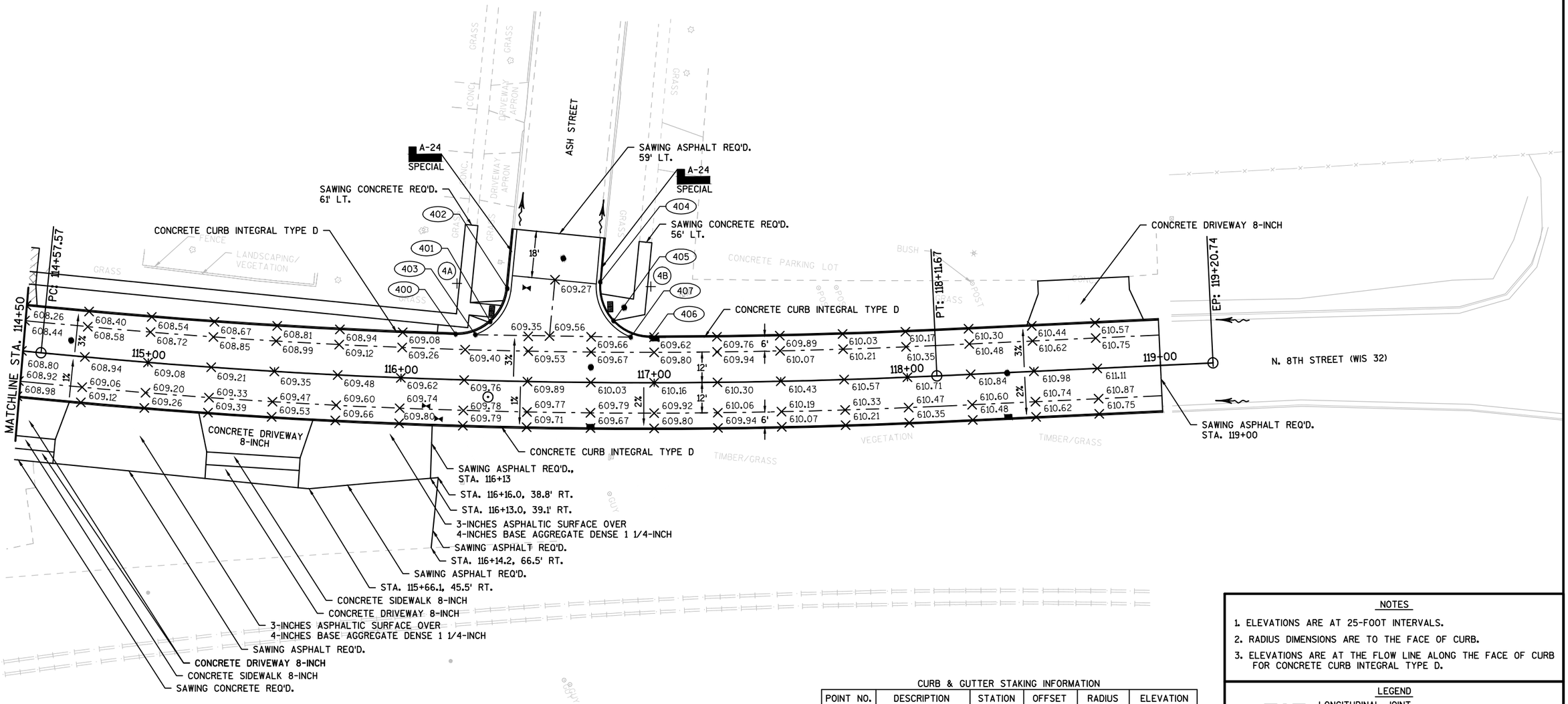
FILE NAME : P:\90S\93\00093265\CADD\SHEETSPLAN\PAVING DETAILS.DWG
LAYOUT NAME - PAVING DETAILS - 021303-JD

PLOT DATE : 7/14/2016 6:07 AM PLOT BY : JASON DOLENS PLOT NAME : PLOT SCALE : 1"= 40'_XREF

WISDOT/CADDS SHEET 42

CURB & GUTTER RADIUS STAKING INFORMATION

POINT NO.	STATION	OFFSET	RADIUS
4A	116+20.93	38.00' LT.	20.0'
4B	116+98.68	38.00' LT.	20.0'



CURB & GUTTER STAKING INFORMATION

POINT NO.	DESCRIPTION	STATION	OFFSET	RADIUS	ELEVATION
400	PC	116+21.07	18.00' LT.	20.0'	609.20
401	MID PT.	116+34.67	23.33' LT.	20.0'	609.07
402	PT	116+41.17	36.60' LT.	20.0'	608.81
403	BEGIN GUTTER	116+28.86	18.00' LT.	21.5'	609.24
404	PC	116+78.42	39.64' LT.	20.0'	609.91
405	MID PT.	116+83.80	24.41' LT.	20.0'	609.35
406	PT	116+98.73	18.00' LT.	20.0'	609.62
407	END GUTTER	116+90.67	18.00' LT.	21.5'	609.58

NOTES

1. ELEVATIONS ARE AT 25-FOOT INTERVALS.
2. RADIUS DIMENSIONS ARE TO THE FACE OF CURB.
3. ELEVATIONS ARE AT THE FLOW LINE ALONG THE FACE OF CURB FOR CONCRETE CURB INTEGRAL TYPE D.

LEGEND

- LONGITUDINAL JOINT
- CONCRETE DRIVEWAY 6-INCH
- CONCRETE SIDEWALK 6-INCH
- X-XX CONCRETE CURB & GUTTER XX-INCH TYPE X
- MANHOLE COVER
- INLET COVER
- WATER VALVE
- DRAINAGE DIRECTION

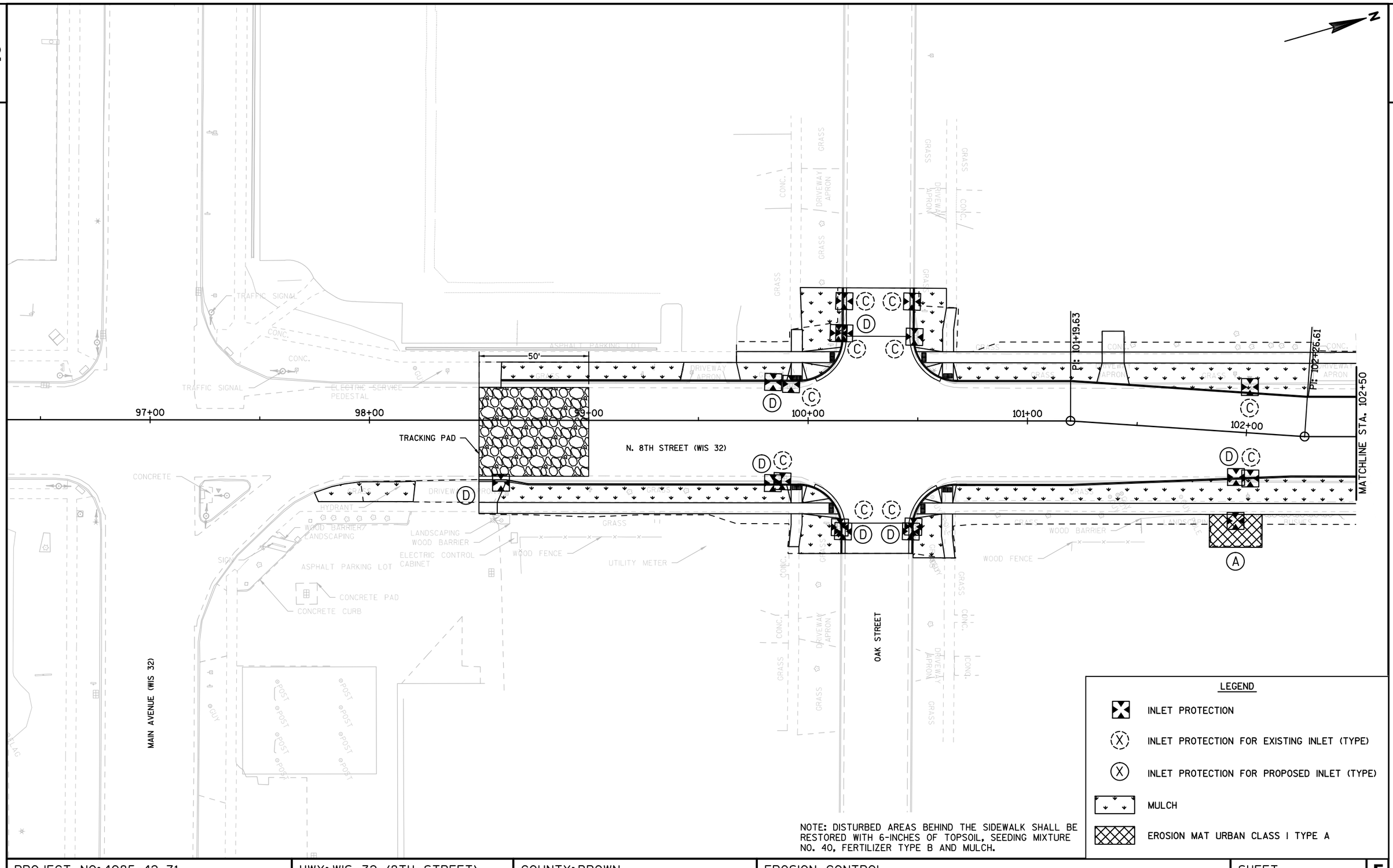
PROJECT NO: 4085-42-71	HWY: WIS 32 (8TH STREET)	COUNTY: BROWN	PAVING DETAILS	SHEET 28	E

FILE NAME : P:\90S\93\00093265\CADD\SHEETSPLAN\PAVING DETAILS.DWG
LAYOUT NAME - PAVING DETAILS - 021304-JD

PLOT DATE : 7/14/2016 6:07 AM PLOT BY : JASON DOLENS PLOT NAME : PLOT SCALE : 1"= 40'_XREF

WISDOT/CADDS SHEET 42

2



NOTE: DISTURBED AREAS BEHIND THE SIDEWALK SHALL BE RESTORED WITH 6-INCHES OF TOPSOIL, SEEDING MIXTURE NO. 40, FERTILIZER TYPE B AND MULCH.

PROJECT NO: 4085-42-71	HWY: WIS 32 (8TH STREET)	COUNTY: BROWN	EROSION CONTROL	SHEET 29	E

2

N

MATCHLINE STA. 102+50

103+00

104+00

Pi: 104+20.43

105+00

Pi: 105+27.42

106+00

107+00

108+00

MATCHLINE STA. 108+50

N. 8TH STREET (WIS 32)

PINE STREET

CEDAR STREET

HYDRANT

WOOD FENCE/ LANDSCAPING

WOOD BARRIER/ LANDSCAPING

LANDSCAPING

VEGETATION

GAS METER

POLE

GRASS

CONC.

DRIVEWAY APRON

DRIVEWAY

DRIVEWAY APRON

DRIVEWAY APRON

DRIVEWAY APRON

2

2

N

MATCHLINE STA. 108+50

109+00

110+00

111+00

112+00

113+00

114+00

MATCHLINE STA. 114+50

SPRUCE STREET

N. 8TH STREET (WIS 32)

ELM STREET

LANDSCAPING/ GRAVEL

CONC.

DRIVEWAY APRON

GRASS

GRAVEL

TELE CONDUIT?

CHAIN LINK FENCE

WOOD FENCE/ LANDSCAPING

CONCRETE STEPS AND RAILING

BOLLARD

CONCRETE PAD

ASPHALT PARKING LOT

CONCRETE PORCH STEPS AND RAILING

CONC. BASE

VEGETATION/ LANDSCAPING

UTILITY METER

UTILITY EQUIPMENT WATER?

LANDSCAPING

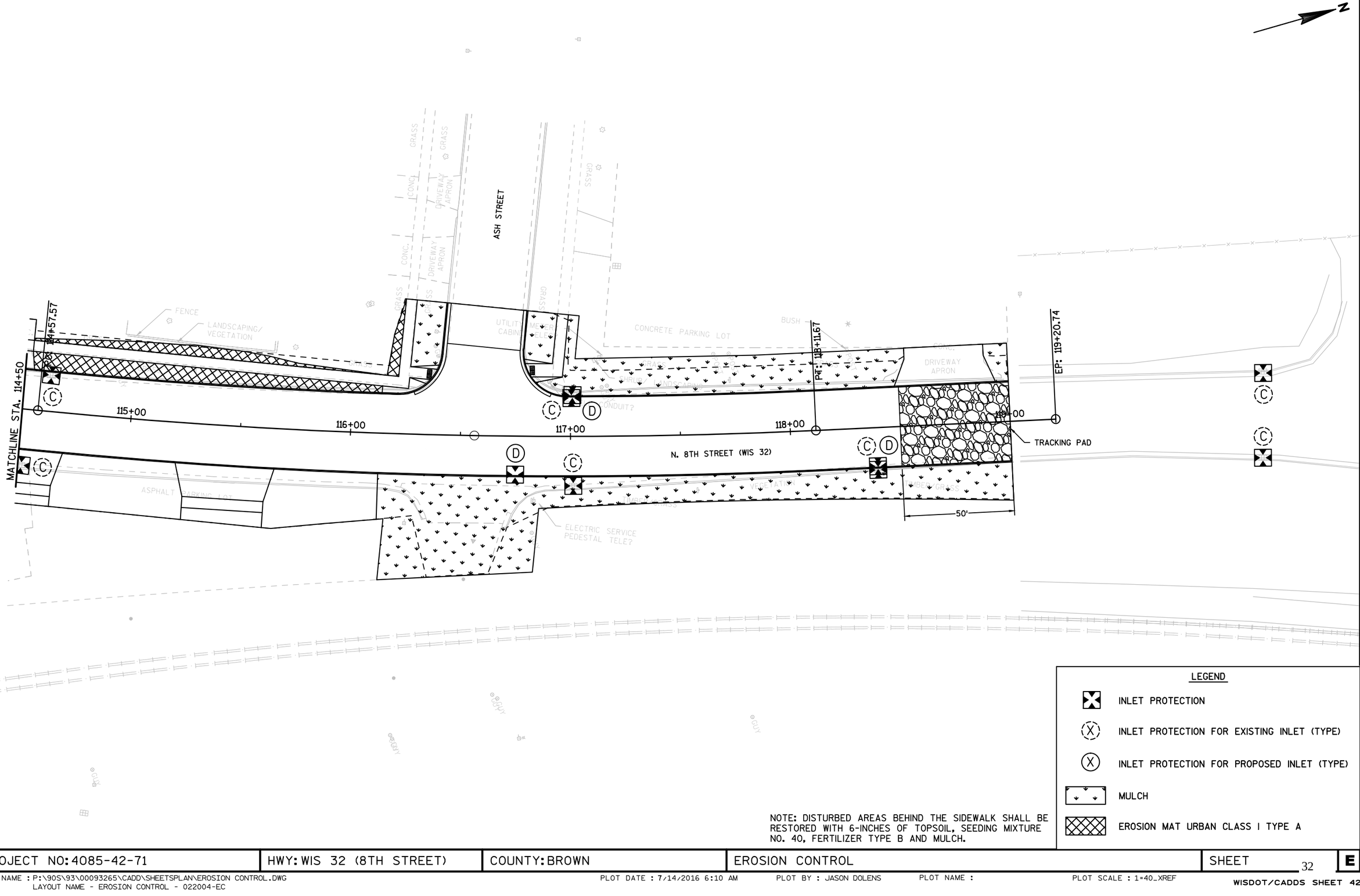
LEGEND

- INLET PROTECTION
- INLET PROTECTION FOR EXISTING INLET (TYPE)
- INLET PROTECTION FOR PROPOSED INLET (TYPE)
- MULCH
- EROSION MAT URBAN CLASS I TYPE A

NOTE: DISTURBED AREAS BEHIND THE SIDEWALK SHALL BE RESTORED WITH 6-INCHES OF TOPSOIL, SEEDING MIXTURE NO. 40, FERTILIZER TYPE B AND MULCH.

PROJECT NO: 4085-42-71	HWY: WIS 32 (8TH STREET)	COUNTY: BROWN	EROSION CONTROL	SHEET 31	E

2

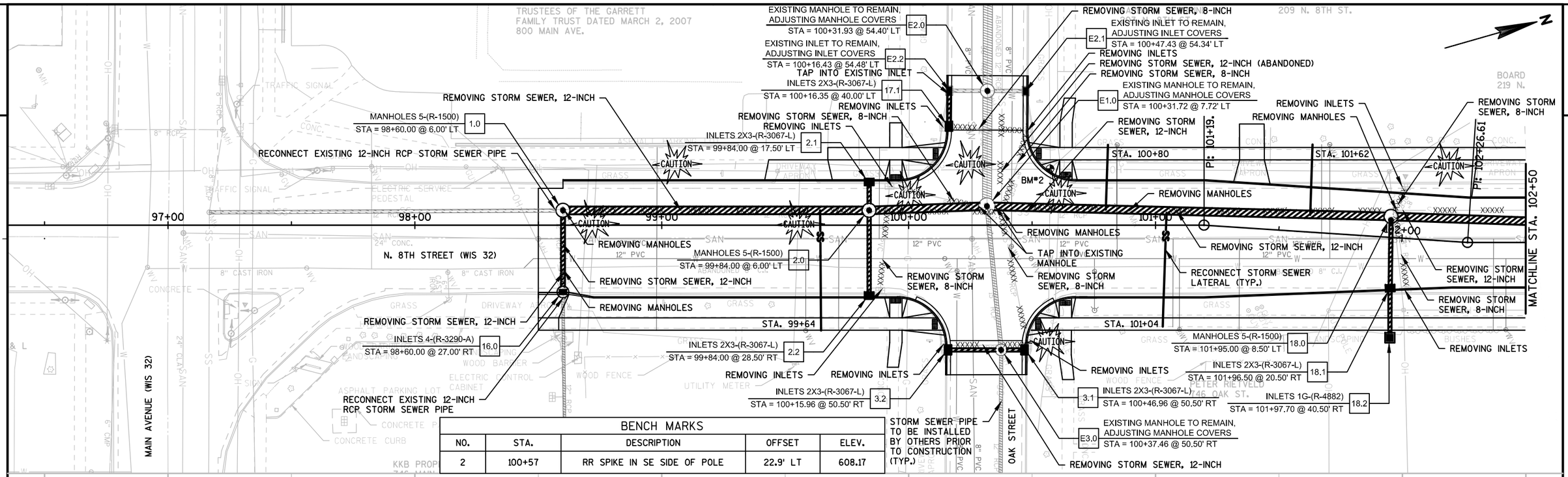


NOTE: DISTURBED AREAS BEHIND THE SIDEWALK SHALL BE RESTORED WITH 6-INCHES OF TOPSOIL, SEEDING MIXTURE NO. 40, FERTILIZER TYPE B AND MULCH.

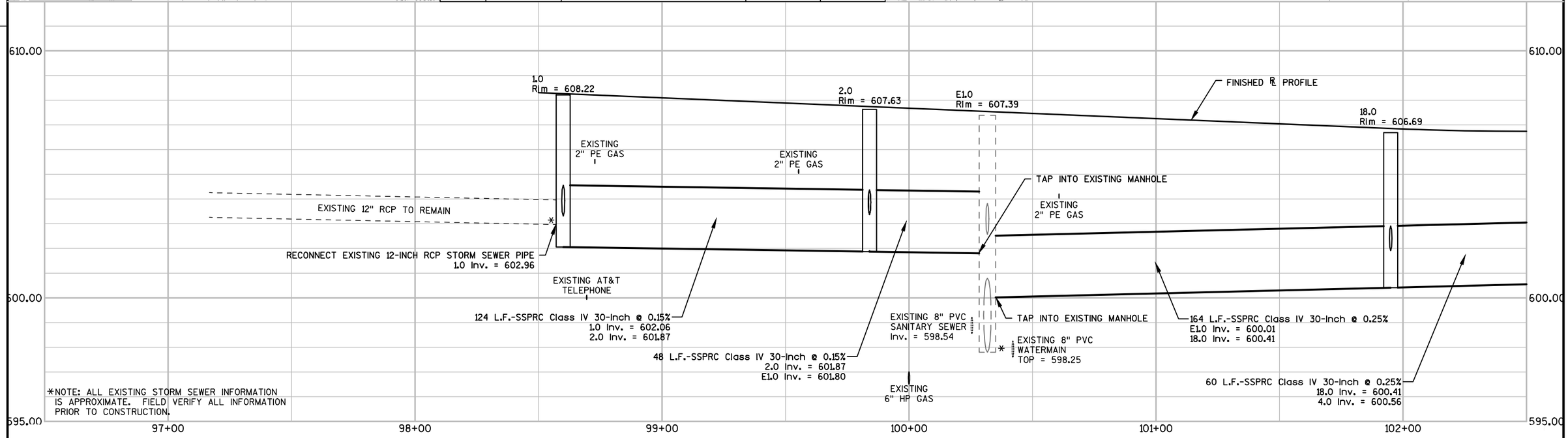
LEGEND

- INLET PROTECTION
- INLET PROTECTION FOR EXISTING INLET (TYPE)
- INLET PROTECTION FOR PROPOSED INLET (TYPE)
- MULCH
- EROSION MAT URBAN CLASS I TYPE A

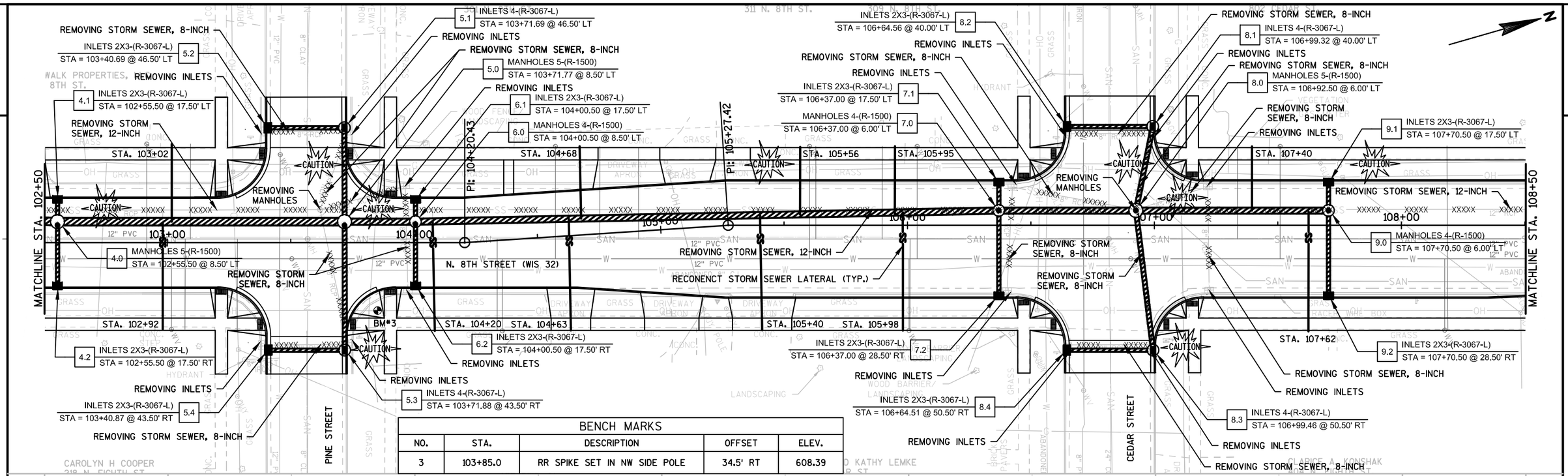
PROJECT NO: 4085-42-71	HWY: WIS 32 (8TH STREET)	COUNTY: BROWN	EROSION CONTROL	SHEET 32	E



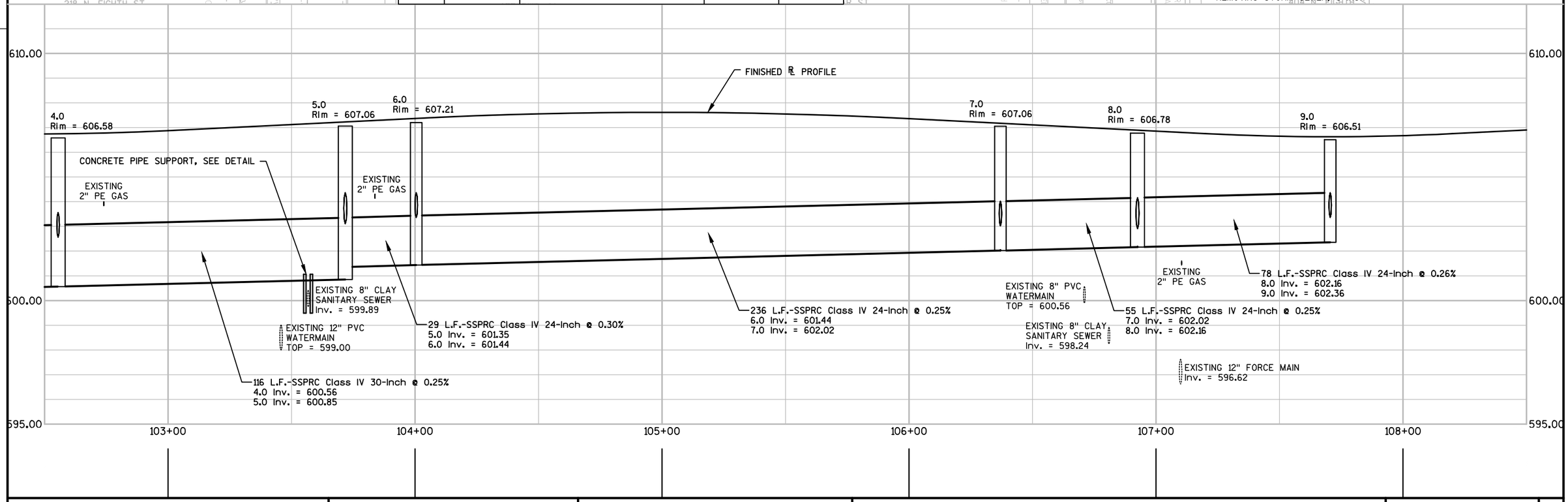
BENCH MARKS				
NO.	STA.	DESCRIPTION	OFFSET	ELEV.
2	100+57	RR SPIKE IN SE SIDE OF POLE	22.9' LT	608.17



PROJECT NO: 4085-42-71	HWY: WIS 32 (8TH STREET)	COUNTY: BROWN	STORM SEWER	SHEET 33	E



BENCH MARKS				
NO.	STA.	DESCRIPTION	OFFSET	ELEV.
3	103+85.0	RR SPIKE SET IN NW SIDE POLE	34.5' RT	608.39



PROJECT NO: 4085-42-71	HWY: WIS 32 (8TH STREET)	COUNTY: BROWN	STORM SEWER	SHEET 34	E

STORM SEWER PIPE TO BE INSTALLED BY OTHERS PRIOR TO CONSTRUCTION (TYP.)

MICHAEL L. YOUNK
801 ELM ST.

REMOVING STORM SEWER, 12-INCH
REMOVING MANHOLES
REMOVING STORM SEWER, 12-INCH
REMOVING STORM SEWER, 12-INCH
REMOVING STORM SEWER, 10-INCH (ABANDONED)
TAP INTO EXISTING MANHOLE
REMOVING MANHOLES
REMOVING STORM SEWER, 12-INCH
50' RT.
REMOVING INLETS
REMOVING INLETS
TAP INTO EXISTING MANHOLE
REMOVING INLETS
REMOVING STORM SEWER, 10-INCH
REMOVING STORM SEWER, 8-INCH
MINI STORM SEWER 6-INCH
MINI STORM SEWER CLEANOUT
RECONNECT STORM SEWER LATERAL (TYP.)
REMOVING MANHOLES
REMOVING STORM SEWER, 12-INCH
MINI STORM SEWER 6-INCH
MINI STORM SEWER LATERAL 6-INCH
MINI STORM SEWER LATERAL 6-INCH
MINI STORM SEWER CLEANOUT

E4.0 EXISTING MANHOLE TO REMAIN, ADJUSTING MANHOLE COVERS
STA = 110+15.95 @ 6.00' LT

E5.0 EXISTING MANHOLE TO REMAIN, ADJUSTING MANHOLE COVERS
STA = 110+30.98 @ 50.54' RT

10.1 INLETS 2X3-(R-3067-L)
STA = 110+22.25 @ 50.50' RT

10.2 INLETS 2X3-(R-3067-L)
STA = 109+91.25 @ 50.50' RT

11.0 MANHOLES 4-(R-1500)
STA = 111+00.00 @ 6.00' LT

11.1 INLETS 2X3-(R-3067-L)
STA = 111+00.00 @ 17.50' LT

11.2 INLETS 2X3-(R-3067-L)
STA = 111+10.00 @ 17.50' LT

11.3 INLETS 2X3-(R-3067-L)
STA = 111+00.00 @ 27.50' RT

11.4 INLETS 2X3-(R-3067-L)
STA = 111+10.00 @ 27.50' RT

12.0 MANHOLES 4-(R-1500)
STA = 112+92.00 @ 6.00' LT

12.1 INLETS 2X3-(R-3067-L)
STA = 112+92.00 @ 17.50' LT

12.2 INLETS 2X3-(R-3067-L)
STA = 113+78.00 @ 17.50' LT

12.3 INLETS 2X3-(R-3067-L)
STA = 113+88.00 @ 17.50' LT

STA. 111+00
STA. 111+88
STA. 112+20
STA. 112+42
STA. 112+67
STA. 114+12

MATCHLINE STA. 108+50
MATCHLINE STA. 114+50

109+00 110+00 111+00 112+00 113+00 114+00

N. 8TH STREET (WIS 32)
ELM STREET
SPRUCE STREET
804 ELM ST.
803 SPRUCE ST.

ULO (ATC DUCT)
BM#4

NEIGHBORHOOD HOUSING SERVICES OF GREEN BAY, INC., D/B/A NEIGHBORWORKS GREEN BAY
747-749 ELM ST.

8TH STREET DP, LLC, A WISCONSIN LIMITED LIABILITY COMPANY
516 N 8TH

SUBJECT RESERVATI 83282 AND ABOUT UT

BENCH MARKS

NO.	STA.	DESCRIPTION	OFFSET	ELEV.
4	113+20.5	SW CORNER OF STEP	42.1' RT	610.13

610.00
600.00
595.00

FINISHED PROFILE
12.0
Rim = 607.83

E4.0
Rim = 607.20

11.0
Rim = 606.91

TAP INTO EXISTING MANHOLE

EXISTING
2" PE GAS

EXISTING
10" PE GAS

EXISTING 8" PVC
WATERMAIN
TOP = 600.72

EXISTING 8" ATC CABLE PIPE
IN 3'x3' CONCRETE DUCT
TOP OF 8" PIPE = 599.37
TOP OF DUCT = 601.20

84 L.F.-SSPRC Class IV 24-Inch @ 0.50%
E4.0 Inv. = 602.40
11.0 Inv. = 602.82

192 L.F.-SSPRC Class IV 24-Inch @ 0.20%
11.0 Inv. = 602.82
12.0 Inv. = 603.20

EXISTING
2" PE GAS

CONCRETE PIPE SUPPORT, SEE DETAIL

EXISTING 8" PVC
WATERMAIN
TOP = 601.89

EXISTING 8" PVC
SANITARY SEWER
Inv. = 599.84

177 L.F.-SSPRC Class IV 24-Inch @ 0.30%
12.0 Inv. = 603.20
13.0 Inv. = 603.73

EXISTING 12" PVC
SANITARY SEWER
Inv. = 595.67

*NOTE: ALL EXISTING STORM SEWER INFORMATION IS APPROXIMATE. FIELD VERIFY ALL INFORMATION PRIOR TO CONSTRUCTION.

109+00 110+00 111+00 112+00 113+00 114+00

PROJECT NO: 4085-42-71	HWY: WIS 32 (8TH STREET)	COUNTY: BROWN	STORM SEWER	SHEET 35	E

FILE NAME : P:\90S\93\00093265\CADD\SHEETSPLAN\STORM.DWG
8TH STREET - STORM - 022503-SS

PLOT DATE : 10/25/2016 1:00 PM PLOT BY : JASON DOLENS PLOT NAME : PLOT SCALE : 1" = 40'_XREF

WISDOT/CADDS SHEET 41

802 SPRUCE ST.

WACHHOLZ
803 ASH ST.

ASH STREET

REMOVING STORM SEWER, 12-INCH
REMOVING INLETS
MINI STORM SEWER 6-INCH
REMOVING STORM SEWER, 8-INCH
13.0 MANHOLES 4-(R-1500)
STA = 114+69.00 @ 6.00' LT
MINI STORM SEWER LATERAL 6-INCH
MINI STORM SEWER CLEANOUT
STA. 115+20
PC: 114+57.57
MATCHLINE STA. 114+50
REMOVING MANHOLES
REMOVING STORM SEWER, 12-INCH
REMOVING INLETS
CAUTION
115+00
116+00
117+00
118+00
119+00
REMOVING STORM SEWER, 12-INCH
REMOVING MANHOLES
RECONNECT STORM SEWER LATERAL
REMOVING INLETS
14.1 INLETS 2X3-(R-3067-L)
STA = 117+00.50 @ 17.50' LT
ULO (ATC DUCT)
REMOVING STORM SEWER, 12-INCH
PT: 118+11.67
RECONNECT EXISTING
12-INCH RCP STORM
SEWER PIPE
EP: 119+20.74
N. 8TH STREET (WIS 32)
E6.0 EXISTING MANHOLE TO REMAIN,
ADJUSTING MANHOLE COVERS
STA = 118+39.42 @ 0.20' RT
15.1 INLETS 2X3-(R-3067-L)
STA = 118+39.10 @ 17.50' RT
REMOVING INLETS
REMOVING INLETS
REMOVING STORM SEWER, 12-INCH
14.0 MANHOLES 4-(R-1500)
STA = 116+75.00 @ 6.00' LT
14.2 INLETS 2X3-(R-3067-L)
STA = 116+75.00 @ 17.50' RT

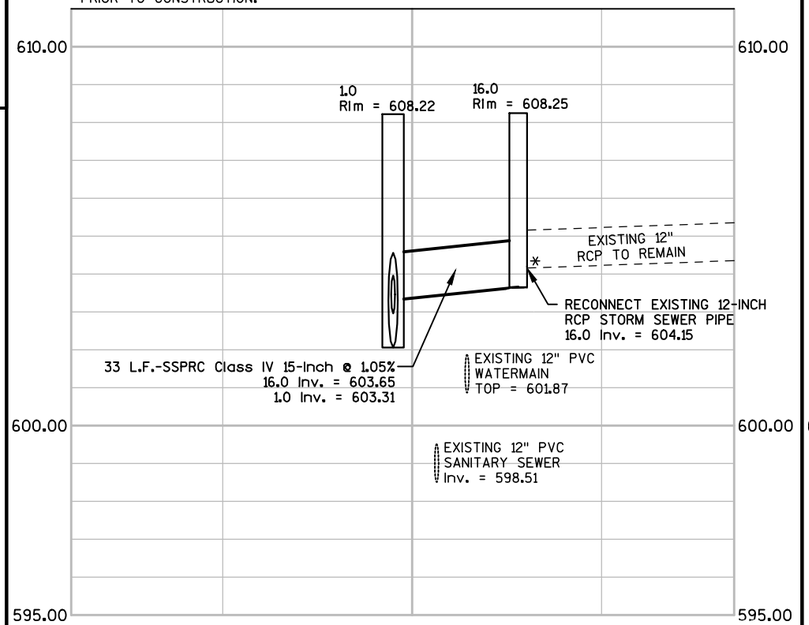
FINISHED R PROFILE
13.0
Rim = 608.73
14.0
Rim = 609.85
CONCRETE PIPE SUPPORT, SEE DETAIL
EXISTING
3" PE GAS
EXISTING 8" PVC
WATERMAIN
TOP = 603.19
EXISTING AT&T
TELEPHONE
EXISTING AT&T
TELEPHONE
205 L.F.-SSPRC Class IV 24-Inch @ 0.30%
13.0 Inv. = 603.73
14.0 Inv. = 604.34

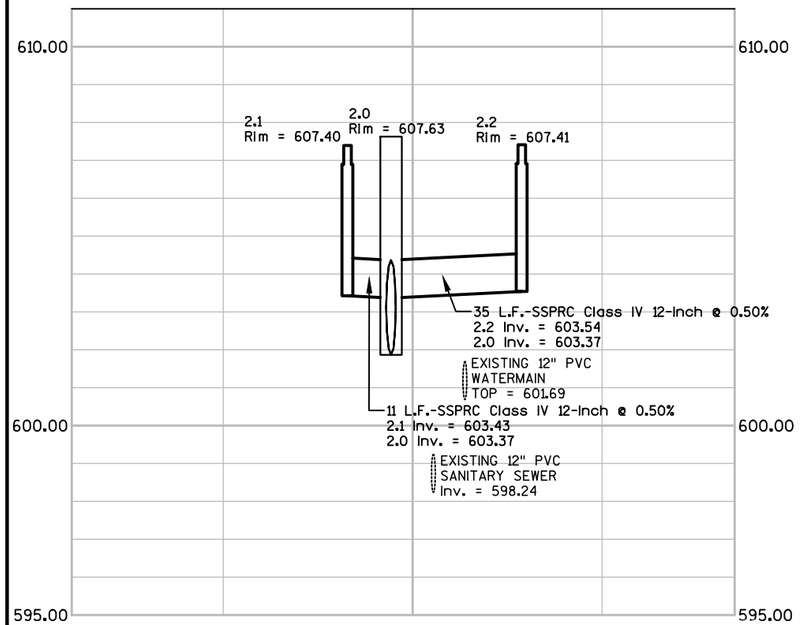
610.00
600.00
595.00
115+00
116+00
117+00
118+00
119+00
120+00

PROJECT NO: 4085-42-71	HWY: WIS 32 (8TH STREET)	COUNTY: BROWN	STORM SEWER	SHEET 36	E

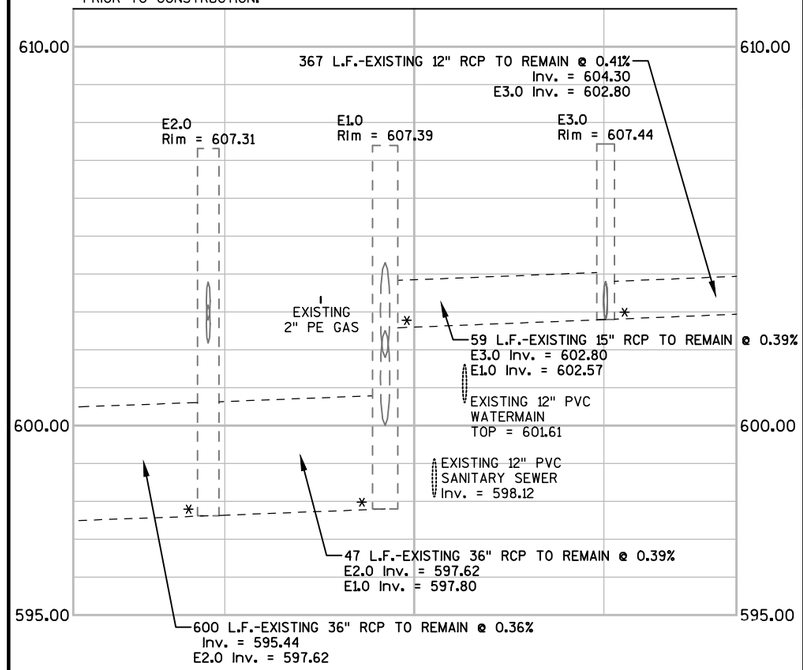
2

*NOTE: ALL EXISTING STORM SEWER INFORMATION IS APPROXIMATE. FIELD VERIFY ALL INFORMATION PRIOR TO CONSTRUCTION.



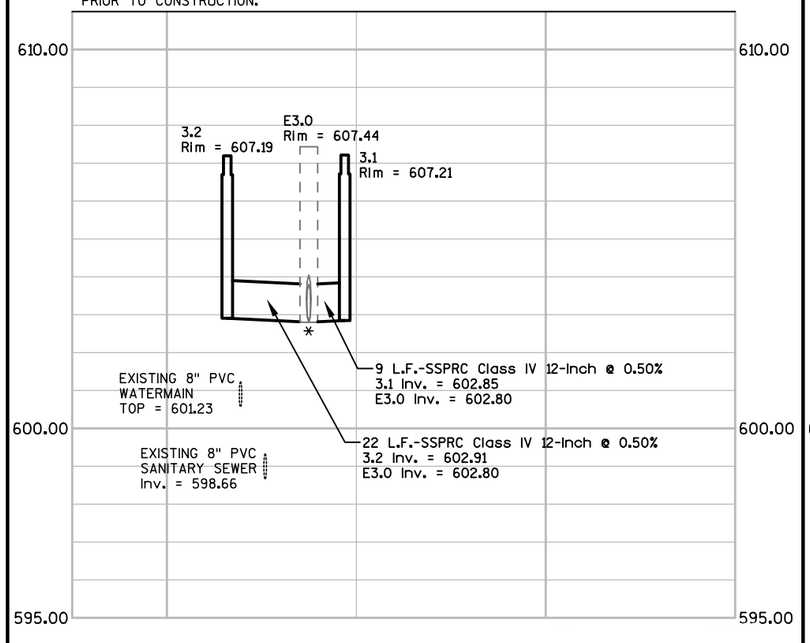


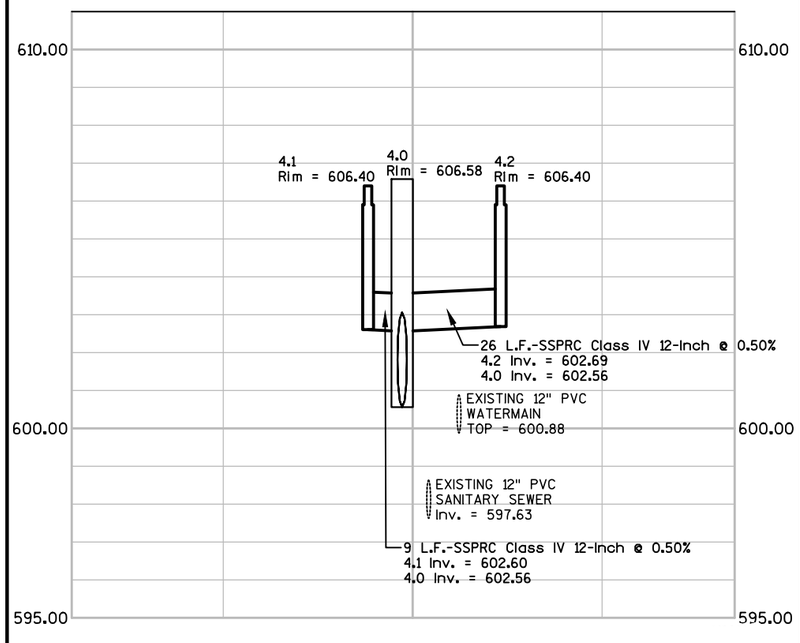
*NOTE: ALL EXISTING STORM SEWER INFORMATION IS APPROXIMATE. FIELD VERIFY ALL INFORMATION PRIOR TO CONSTRUCTION.

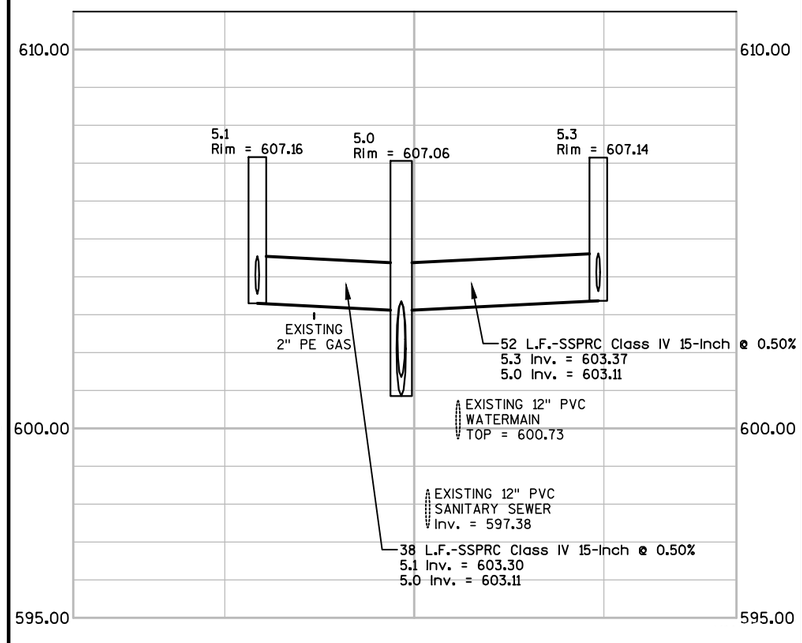


2

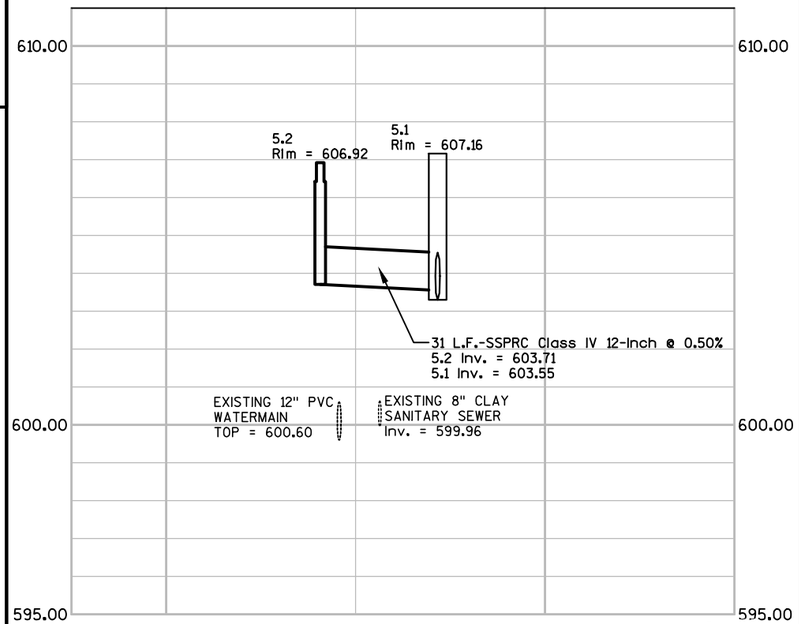
*NOTE: ALL EXISTING STORM SEWER INFORMATION IS APPROXIMATE. FIELD VERIFY ALL INFORMATION PRIOR TO CONSTRUCTION.

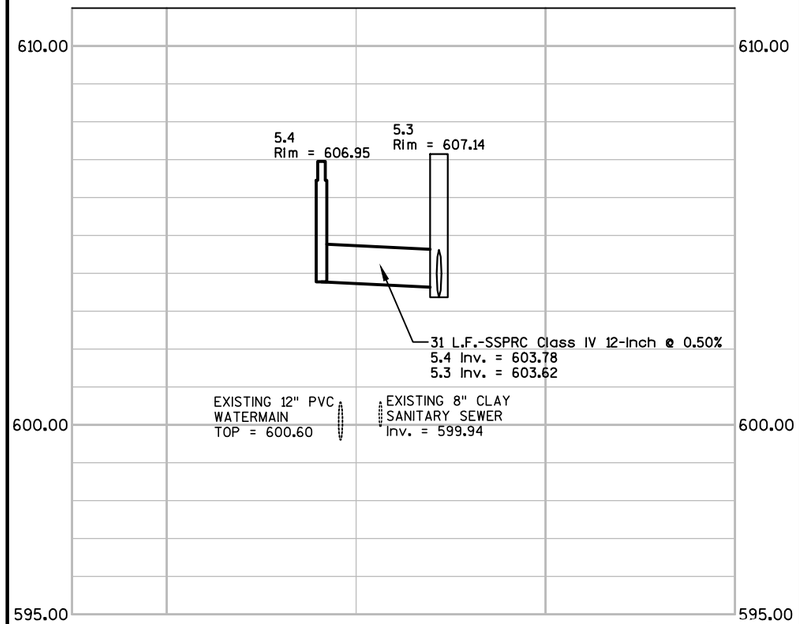


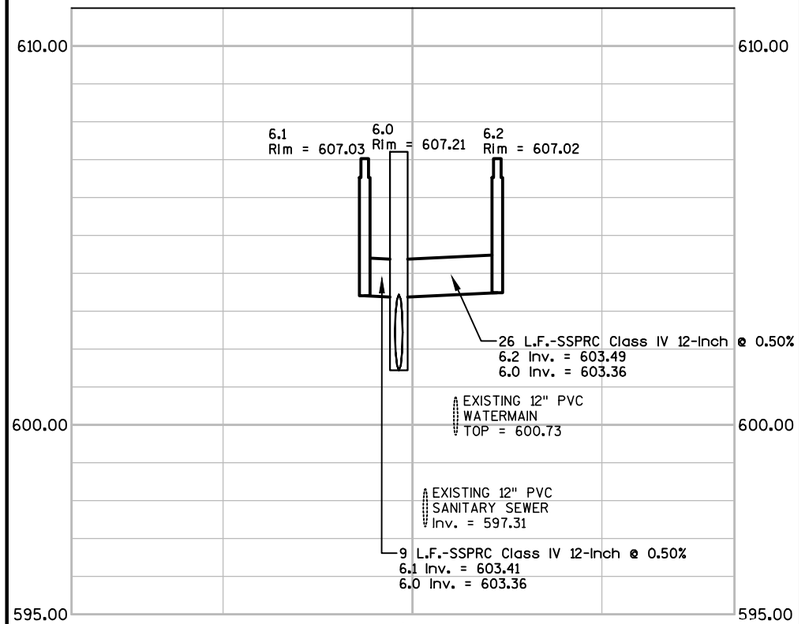


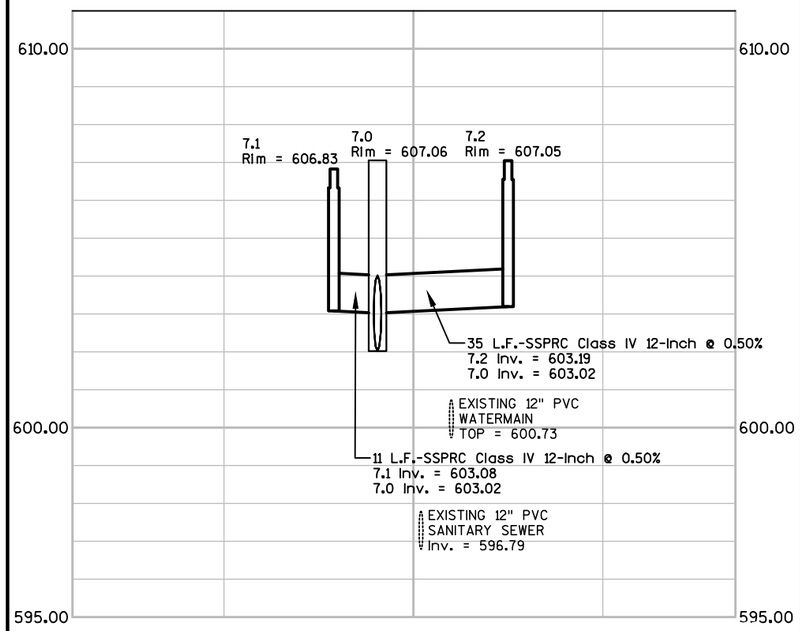


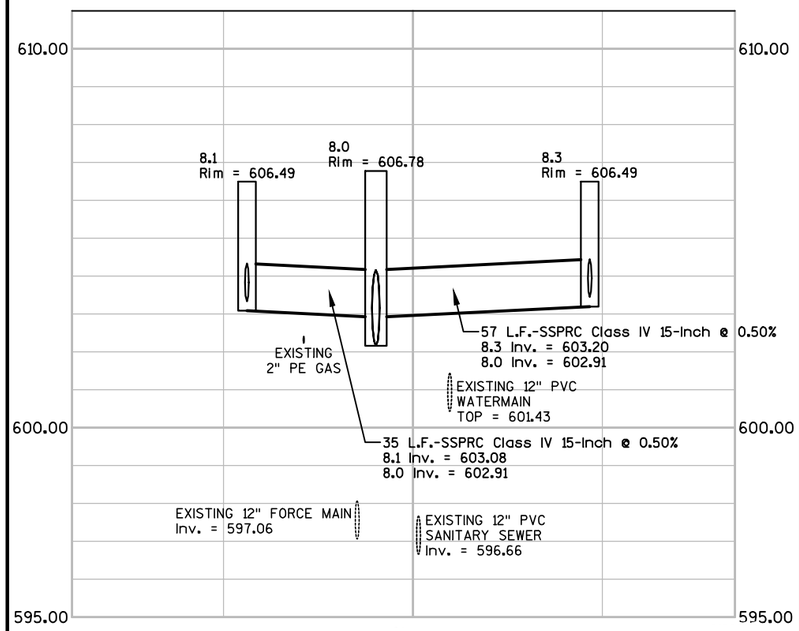
PROJECT NO: 4085-42-71	HWY: WIS 32 (8TH STREET)	COUNTY: BROWN	STORM SEWER	SHEET 37	E

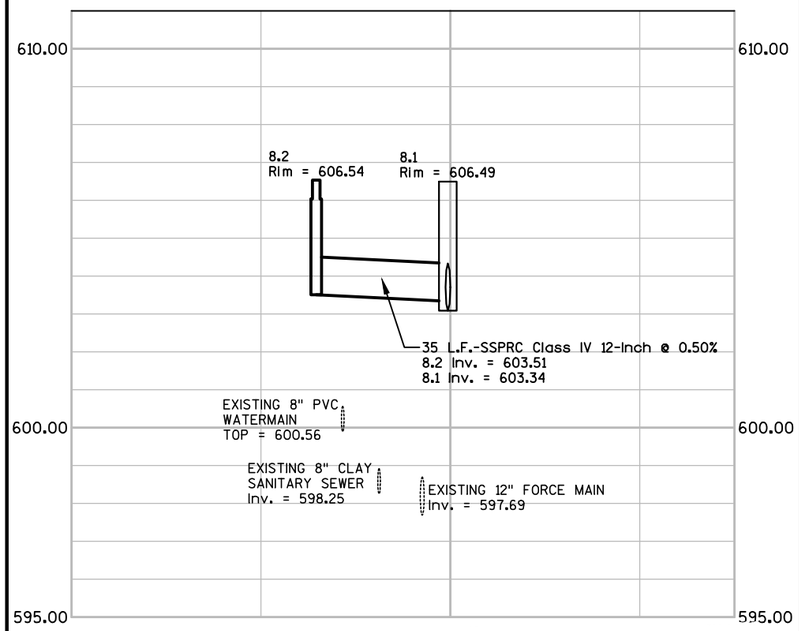

610.00
600.00
595.00
5.2
Rim = 606.92
5.1
Rim = 607.16
31 L.F.-SSPRC Class IV 12-Inch @ 0.50%
5.2 Inv. = 603.71
5.1 Inv. = 603.55
EXISTING 12" PVC
WATERMAIN
TOP = 600.60
EXISTING 8" CLAY
SANITARY SEWER
Inv. = 599.96

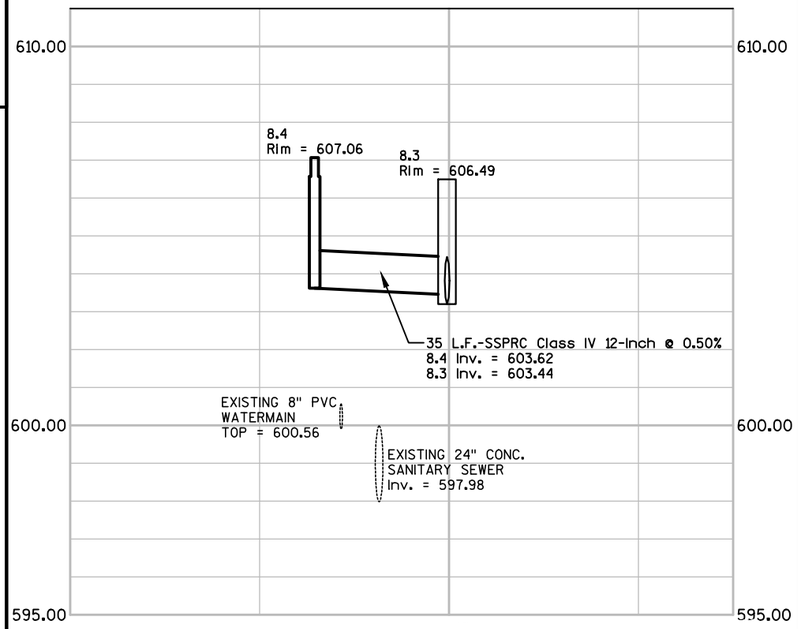

610.00
600.00
595.00
5.4
Rim = 606.95
5.3
Rim = 607.14
31 L.F.-SSPRC Class IV 12-Inch @ 0.50%
5.4 Inv. = 603.78
5.3 Inv. = 603.62
EXISTING 12" PVC
WATERMAIN
TOP = 600.60
EXISTING 8" CLAY
SANITARY SEWER
Inv. = 599.94

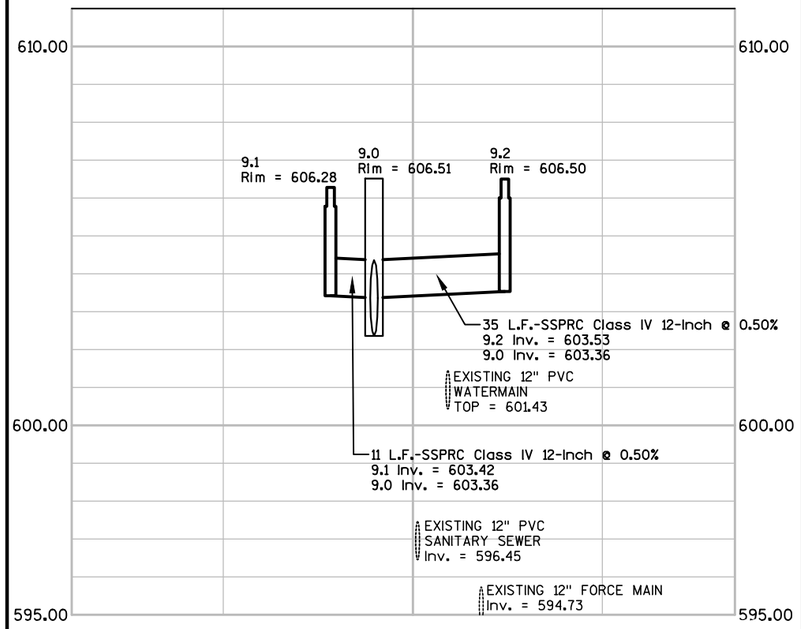

610.00
600.00
595.00
6.1
Rim = 607.03
6.0
Rim = 607.21
6.2
Rim = 607.02
26 L.F.-SSPRC Class IV 12-Inch @ 0.50%
6.2 Inv. = 603.49
6.0 Inv. = 603.36
EXISTING 12" PVC
WATERMAIN
TOP = 600.73
EXISTING 12" PVC
SANITARY SEWER
Inv. = 597.31
9 L.F.-SSPRC Class IV 12-Inch @ 0.50%
6.1 Inv. = 603.41
6.0 Inv. = 603.36

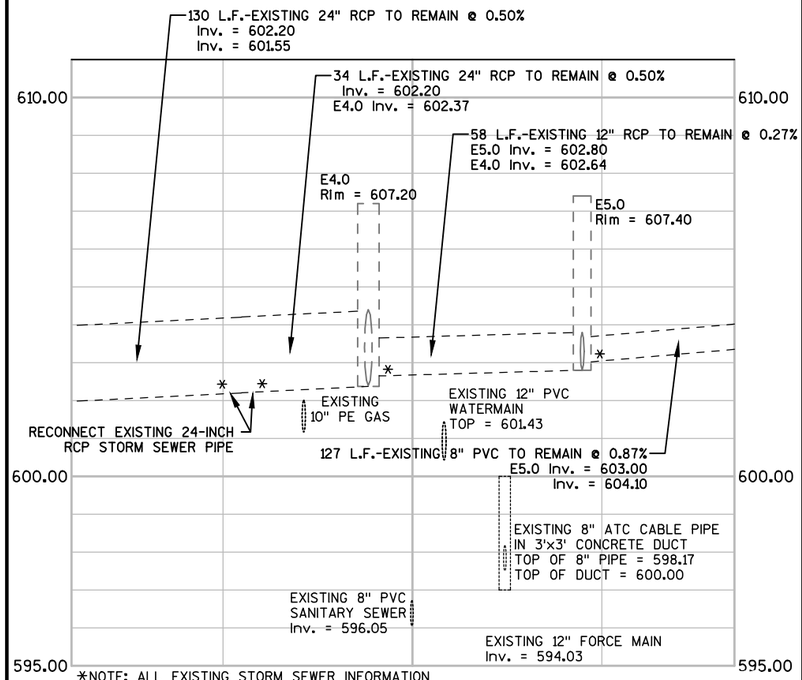

610.00
600.00
595.00
7.1
Rim = 606.83
7.0
Rim = 607.06
7.2
Rim = 607.05
35 L.F.-SSPRC Class IV 12-Inch @ 0.50%
7.2 Inv. = 603.19
7.0 Inv. = 603.02
EXISTING 12" PVC
WATERMAIN
TOP = 600.73
11 L.F.-SSPRC Class IV 12-Inch @ 0.50%
7.1 Inv. = 603.08
7.0 Inv. = 603.02
EXISTING 12" PVC
SANITARY SEWER
Inv. = 596.79


610.00
600.00
595.00
8.1
Rim = 606.49
8.0
Rim = 606.78
8.3
Rim = 606.49
EXISTING
2" PE GAS
57 L.F.-SSPRC Class IV 15-Inch @ 0.50%
8.3 Inv. = 603.20
8.0 Inv. = 602.91
EXISTING 12" PVC
WATERMAIN
TOP = 601.43
35 L.F.-SSPRC Class IV 15-Inch @ 0.50%
8.1 Inv. = 603.08
8.0 Inv. = 602.91
EXISTING 12" FORCE MAIN
Inv. = 597.06
EXISTING 12" PVC
SANITARY SEWER
Inv. = 596.66

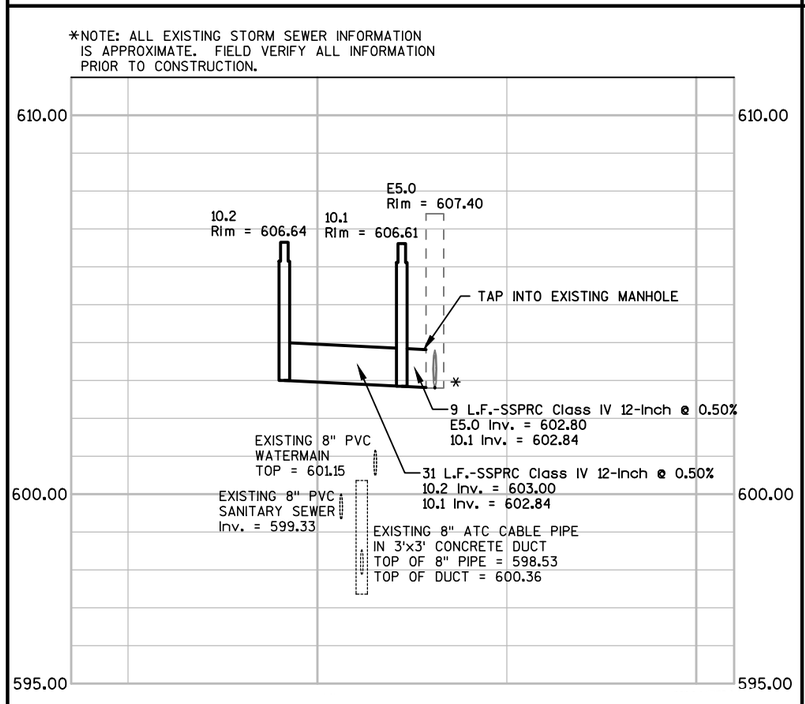

610.00
600.00
595.00
8.2
Rim = 606.54
8.1
Rim = 606.49
35 L.F.-SSPRC Class IV 12-Inch @ 0.50%
8.2 Inv. = 603.51
8.1 Inv. = 603.34
EXISTING 8" PVC
WATERMAIN
TOP = 600.56
EXISTING 8" CLAY
SANITARY SEWER
Inv. = 598.25
EXISTING 12" FORCE MAIN
Inv. = 597.69

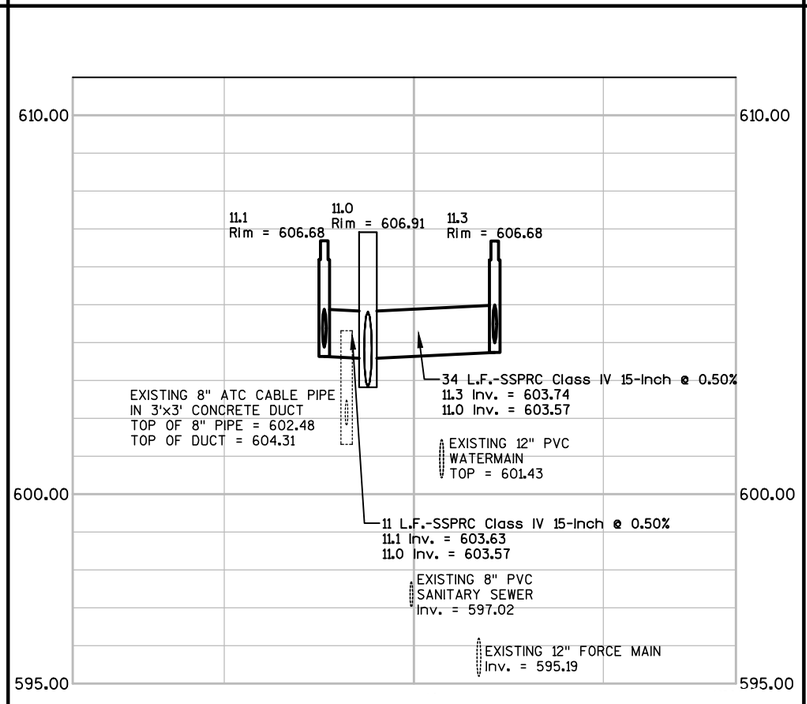

610.00
600.00
595.00
8.4
Rim = 607.06
8.3
Rim = 606.49
35 L.F.-SSPRC Class IV 12-Inch @ 0.50%
8.4 Inv. = 603.62
8.3 Inv. = 603.44
EXISTING 8" PVC
WATERMAIN
TOP = 600.56
EXISTING 24" CONC.
SANITARY SEWER
Inv. = 597.98

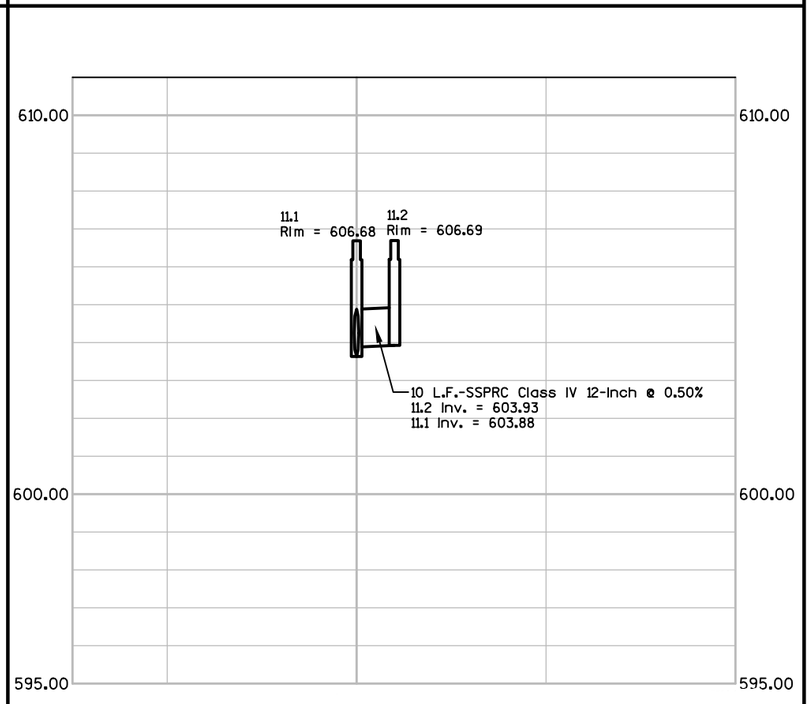

610.00
600.00
595.00
9.1
Rim = 606.28
9.0
Rim = 606.51
9.2
Rim = 606.50
35 L.F.-SSPRC Class IV 12-Inch @ 0.50%
9.2 Inv. = 603.53
9.0 Inv. = 603.36
EXISTING 12" PVC
WATERMAIN
TOP = 601.43
11 L.F.-SSPRC Class IV 12-Inch @ 0.50%
9.1 Inv. = 603.42
9.0 Inv. = 603.36
EXISTING 12" PVC
SANITARY SEWER
Inv. = 596.45
EXISTING 12" FORCE MAIN
Inv. = 594.73

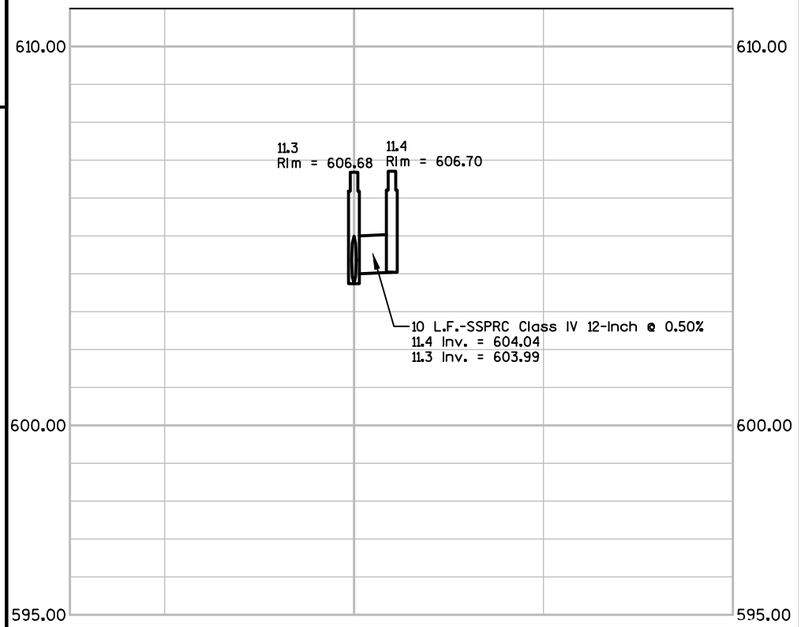

610.00
600.00
595.00
130 L.F.-EXISTING 24" RCP TO REMAIN @ 0.50%
Inv. = 602.20
Inv. = 601.55
34 L.F.-EXISTING 24" RCP TO REMAIN @ 0.50%
Inv. = 602.20
E4.0 Inv. = 602.37
58 L.F.-EXISTING 12" RCP TO REMAIN @ 0.27%
E5.0 Inv. = 602.80
E4.0 Inv. = 602.64
E4.0
Rim = 607.20
E5.0
Rim = 607.40
RECONNECT EXISTING 24-INCH
RCP STORM SEWER PIPE
EXISTING
10" PE GAS
EXISTING 12" PVC
WATERMAIN
TOP = 601.43
127 L.F.-EXISTING 8" PVC TO REMAIN @ 0.87%
E5.0 Inv. = 603.00
Inv. = 604.10
EXISTING 8" ATC CABLE PIPE
IN 3'x3' CONCRETE DUCT
TOP OF 8" PIPE = 598.17
TOP OF DUCT = 600.00
EXISTING 8" PVC
SANITARY SEWER
Inv. = 596.05
EXISTING 12" FORCE MAIN
Inv. = 594.03
*NOTE: ALL EXISTING STORM SEWER INFORMATION
IS APPROXIMATE. FIELD VERIFY ALL INFORMATION
PRIOR TO CONSTRUCTION.

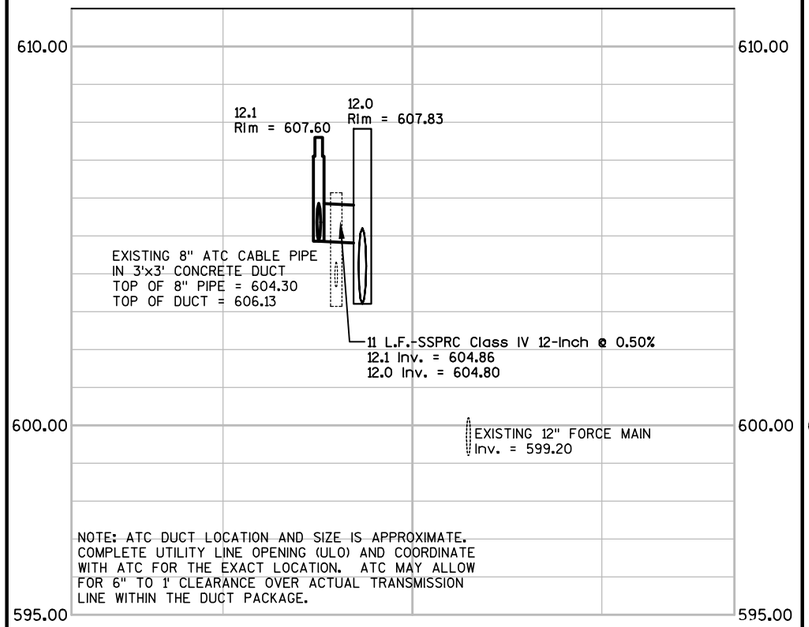
2

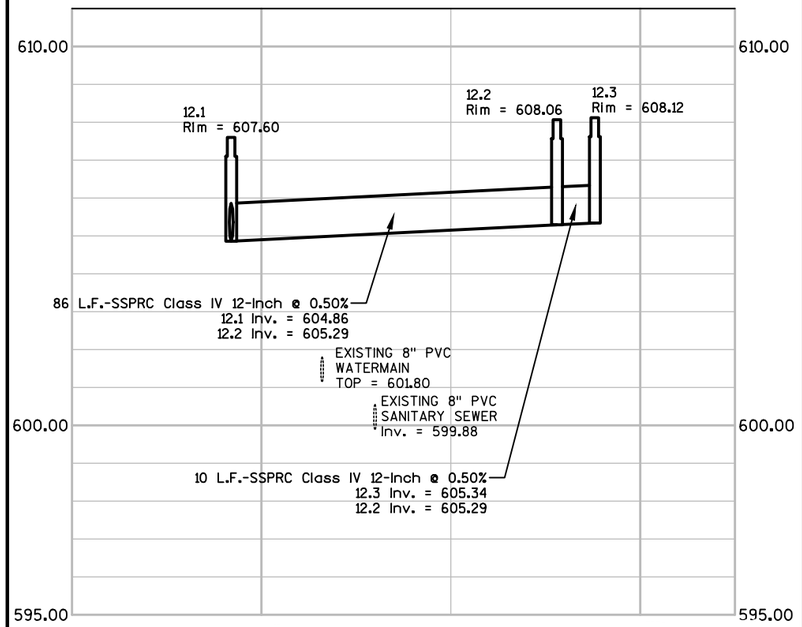

*NOTE: ALL EXISTING STORM SEWER INFORMATION
IS APPROXIMATE. FIELD VERIFY ALL INFORMATION
PRIOR TO CONSTRUCTION.
610.00
600.00
595.00
10.2
Rim = 606.64
10.1
Rim = 606.61
E5.0
Rim = 607.40
TAP INTO EXISTING MANHOLE
9 L.F.-SSPRC Class IV 12-Inch @ 0.50%
E5.0 Inv. = 602.80
10.1 Inv. = 602.84
EXISTING 8" PVC
WATERMAIN
TOP = 601.15
31 L.F.-SSPRC Class IV 12-Inch @ 0.50%
10.2 Inv. = 603.00
10.1 Inv. = 602.84
EXISTING 8" PVC
SANITARY SEWER
Inv. = 599.33
EXISTING 8" ATC CABLE PIPE
IN 3'x3' CONCRETE DUCT
TOP OF 8" PIPE = 598.53
TOP OF DUCT = 600.36

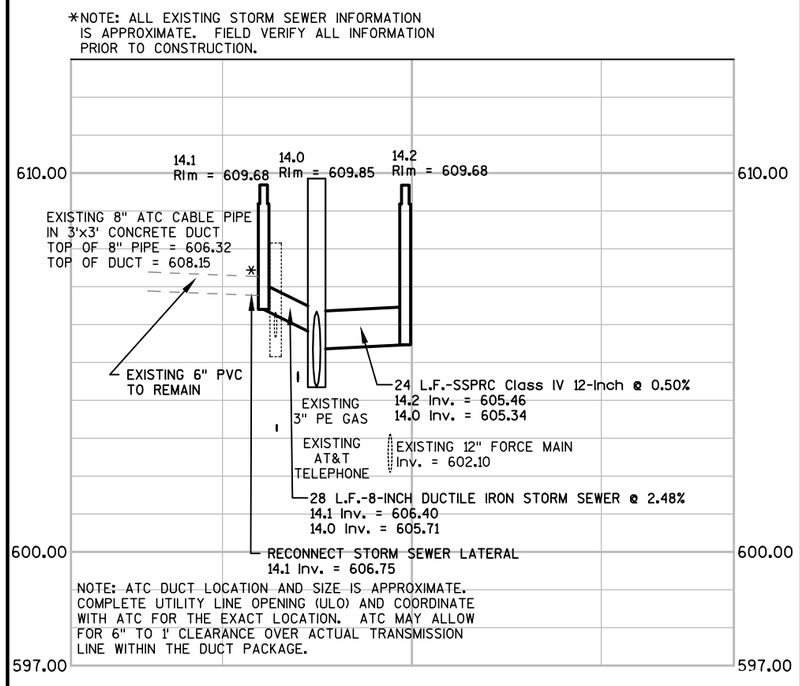

610.00
600.00
595.00
11.1
Rim = 606.68
11.0
Rim = 606.91
11.3
Rim = 606.68
EXISTING 8" ATC CABLE PIPE
IN 3'x3' CONCRETE DUCT
TOP OF 8" PIPE = 602.48
TOP OF DUCT = 604.31
34 L.F.-SSPRC Class IV 15-Inch @ 0.50%
11.3 Inv. = 603.74
11.0 Inv. = 603.57
EXISTING 12" PVC
WATERMAIN
TOP = 601.43
11 L.F.-SSPRC Class IV 15-Inch @ 0.50%
11.1 Inv. = 603.63
11.0 Inv. = 603.57
EXISTING 8" PVC
SANITARY SEWER
Inv. = 597.02
EXISTING 12" FORCE MAIN
Inv. = 595.19

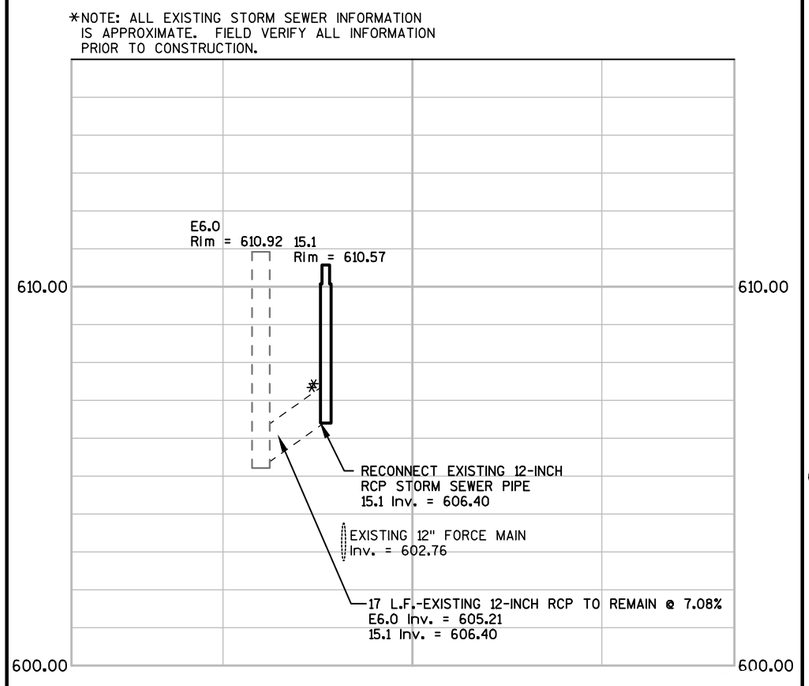

610.00
600.00
595.00
11.1
Rim = 606.68
11.2
Rim = 606.69
10 L.F.-SSPRC Class IV 12-Inch @ 0.50%
11.2 Inv. = 603.93
11.1 Inv. = 603.88

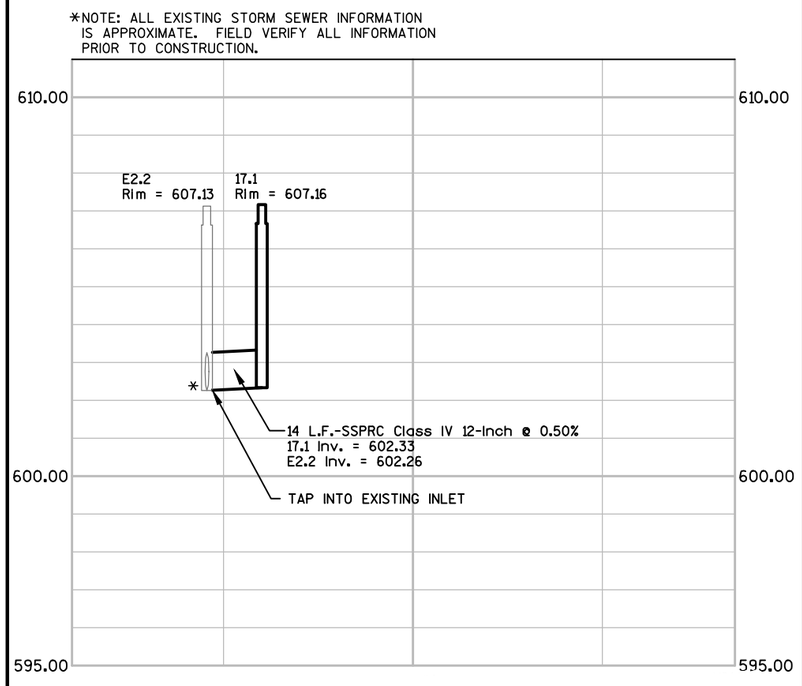

610.00
600.00
595.00
11.3
Rim = 606.68
11.4
Rim = 606.70
10 L.F.-SSPRC Class IV 12-Inch @ 0.50%
11.4 Inv. = 604.04
11.3 Inv. = 603.99

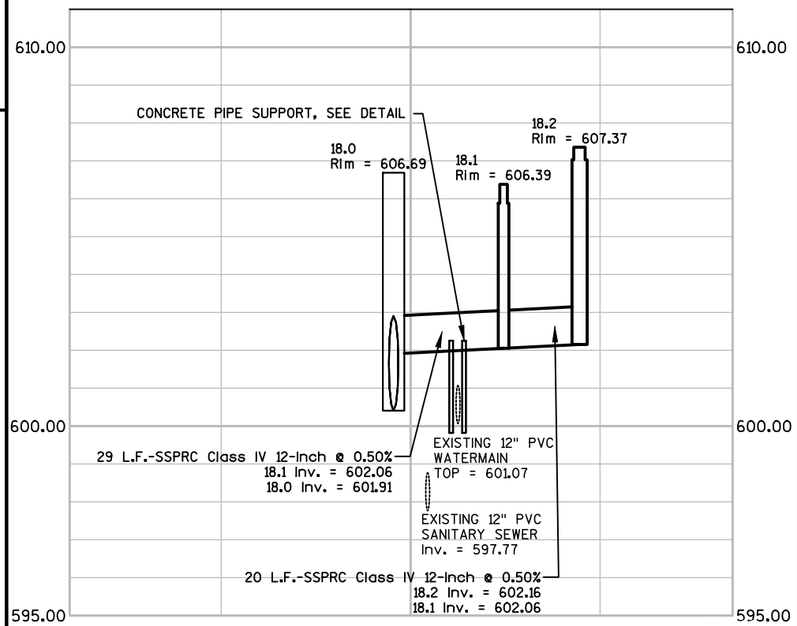

610.00
600.00
595.00
12.1
Rim = 607.60
12.0
Rim = 607.83
EXISTING 8" ATC CABLE PIPE
IN 3'x3' CONCRETE DUCT
TOP OF 8" PIPE = 604.30
TOP OF DUCT = 606.13
11 L.F.-SSPRC Class IV 12-Inch @ 0.50%
12.1 Inv. = 604.86
12.0 Inv. = 604.80
EXISTING 12" FORCE MAIN
Inv. = 599.20
NOTE: ATC DUCT LOCATION AND SIZE IS APPROXIMATE.
COMPLETE UTILITY LINE OPENING (ULO) AND COORDINATE
WITH ATC FOR THE EXACT LOCATION. ATC MAY ALLOW
FOR 6" TO 1' CLEARANCE OVER ACTUAL TRANSMISSION
LINE WITHIN THE DUCT PACKAGE.


610.00
600.00
595.00
12.1
Rim = 607.60
12.2
Rim = 608.06
12.3
Rim = 608.12
86 L.F.-SSPRC Class IV 12-Inch @ 0.50%
12.1 Inv. = 604.86
12.2 Inv. = 605.29
EXISTING 8" PVC
WATERMAIN
TOP = 601.80
EXISTING 8" PVC
SANITARY SEWER
Inv. = 599.88
10 L.F.-SSPRC Class IV 12-Inch @ 0.50%
12.3 Inv. = 605.34
12.2 Inv. = 605.29


*NOTE: ALL EXISTING STORM SEWER INFORMATION
IS APPROXIMATE. FIELD VERIFY ALL INFORMATION
PRIOR TO CONSTRUCTION.
610.00
600.00
597.00
14.1
Rim = 609.68
14.0
Rim = 609.85
14.2
Rim = 609.68
EXISTING 8" ATC CABLE PIPE
IN 3'x3' CONCRETE DUCT
TOP OF 8" PIPE = 606.32
TOP OF DUCT = 608.15
EXISTING 6" PVC
TO REMAIN
EXISTING
3" PE GAS
EXISTING
AT&T
TELEPHONE
24 L.F.-SSPRC Class IV 12-Inch @ 0.50%
14.2 Inv. = 605.46
14.0 Inv. = 605.34
EXISTING 12" FORCE MAIN
Inv. = 602.10
28 L.F.-8-INCH DUCTILE IRON STORM SEWER @ 2.48%
14.1 Inv. = 606.40
14.0 Inv. = 605.71
RECONNECT STORM SEWER LATERAL
14.1 Inv. = 606.75
NOTE: ATC DUCT LOCATION AND SIZE IS APPROXIMATE.
COMPLETE UTILITY LINE OPENING (ULO) AND COORDINATE
WITH ATC FOR THE EXACT LOCATION. ATC MAY ALLOW
FOR 6" TO 1' CLEARANCE OVER ACTUAL TRANSMISSION
LINE WITHIN THE DUCT PACKAGE.


*NOTE: ALL EXISTING STORM SEWER INFORMATION
IS APPROXIMATE. FIELD VERIFY ALL INFORMATION
PRIOR TO CONSTRUCTION.
610.00
600.00
E6.0
Rim = 610.92
15.1
Rim = 610.57
RECONNECT EXISTING 12-INCH
RCP STORM SEWER PIPE
15.1 Inv. = 606.40
EXISTING 12" FORCE MAIN
Inv. = 602.76
17 L.F.-EXISTING 12-INCH RCP TO REMAIN @ 7.08%
E6.0 Inv. = 605.21
15.1 Inv. = 606.40


*NOTE: ALL EXISTING STORM SEWER INFORMATION
IS APPROXIMATE. FIELD VERIFY ALL INFORMATION
PRIOR TO CONSTRUCTION.
610.00
600.00
595.00
E2.2
Rim = 607.13
17.1
Rim = 607.16
14 L.F.-SSPRC Class IV 12-Inch @ 0.50%
17.1 Inv. = 602.33
E2.2 Inv. = 602.26
TAP INTO EXISTING INLET



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PROJECT NO: 4085-42-71	HWY: WIS 32 (8TH STREET)	COUNTY: BROWN	STORM SEWER	SHEET 41	E

MARK R GARRETT AND RENEE A. GARRETT,
TRUSTEES OF THE GARRETT
FAMILY TRUST DATED MARCH 2, 2007
800 MAIN AVE.

NOTE: ALL SANITARY SEWER AND WATERMAIN PIPES TO BE INSTALLED BY OTHERS PRIOR TO CONSTRUCTION

KENNETH AND
BARBARA DEQUAINE
203 N. 8TH ST.

JAMES R. THIEM
209 N. 8TH ST.

BOARD
219 N.

ADJUSTING MANHOLE COVERS,
STA. 100+25.7, 5.5' RT.
RIM = 607.68

PI: 101+19.63

PI: 102+26.61

97+00 98+00 99+00 100+00 101+00 102+00

MATCHLINE STA. 102+50

ADJUSTING MANHOLE COVERS,
STA. 98+50.0, 5.5' RT.
RIM = 608.31

N. 8TH STREET (WIS 32)

ADJUST WATER VALVE BOX,
STA. 100+14.6, 13.5' RT.
RIM = 607.76

ADJUST WATER VALVE BOX,
STA. 100+19.6, 18.5' RT.
RIM = 607.59

ADJUST WATER VALVE BOX,
STA. 100+75.3, 18.5' RT.
RIM = 607.35

ADJUST WATER VALVE BOX,
STA. 100+49.6, 13.5' RT.
RIM = 607.62

ADJUST WATER VALVE BOX,
STA. 100+41.7, 8.5' RT.
RIM = 607.67

MAIN AVENUE (WIS 32)

OAK STREET

MARILYN J. EBBEN AND ALLEN DEGROOT
301 N. 8TH ST.

ANDREW D. ROBBINS
311 N. 8TH ST.

WOBIN ZHANG AND RENWEN YU
309 N. 8TH ST.

ROGER MAHLER AND TAMMY VALLEY
802 CEDAR ST.

NOTE: ALL SANITARY SEWER AND WATERMAIN PIPES TO BE INSTALLED BY OTHERS PRIOR TO CONSTRUCTION

WALK PROPERTIES, LLC
8TH ST.

ADJUST WATER VALVE BOX,
STA. 103+45.7, 35.6' LT.
RIM = 606.94

ADJUSTING MANHOLE COVERS,
STA. 103+56.8, 1.5' LT.
RIM = 607.13

PI: 104+20.43

PI: 105+27.42

MATCHLINE STA. 102+50

103+00 104+00 105+00 106+00 107+00 108+00

ADJUSTING MANHOLE COVERS,
STA. 106+81.6, 5.5' RT.
RIM = 607.06

N. 8TH STREET (WIS 32)

MATCHLINE STA. 108+50

ADJUST WATER VALVE BOX,
STA. 103+50.4, 6.5' RT.
RIM = 607.00

ADJUST WATER VALVE BOX,
STA. 103+45.3, 13.5' RT.
RIM = 606.83

ADJUST WATER VALVE BOX,
STA. 106+90.4, 13.5' RT.
RIM = 607.08

PINE STREET

CEDAR STREET

CAROLYN H. COOPER

PAUL R. KNOPE

DAVID AND KATHY LEMKE

CLARICE A. KONSHAK

PROJECT NO: 4085-42-71	HWY: WIS 32 (8TH STREET)	COUNTY: BROWN	SANITARY SEWER & WATERMAIN	SHEET 42	E

FILE NAME : P:\90S\93\00093265\CADD\SHEETSPLAN\SANITARY SEWER & WATERMAIN.DWG
LAYOUT NAME - SANITARY SEWER & WATERMAIN - 023001-UP

PLOT DATE : 7/13/2016 3:34 PM PLOT BY : JASON DOLENS PLOT NAME : PLOT SCALE : 1"= 40'_XREF

2

NOTE: ALL SANITARY SEWER AND WATERMAIN PIPES TO BE INSTALLED BY OTHERS PRIOR TO CONSTRUCTION

MATCHLINE STA. 108+50

MATCHLINE STA. 114+50

ELM STREET

SPRUCE STREET

N. 8TH STREET (WIS 32)

MICHAEL L. YOUNK
801 ELM ST.

EMIL O. SCHULTZ
804 ELM ST.

TRAVIS J. MCAVOY
511 N. 8TH ST.

PHYLLIS R. HENDRICKS
803 SPRUCE ST.

8TH STREET DP, LLC, A WISCONSIN LIMITED LIABILITY COMPANY
516 N 8TH ST.

SUBJECT TO EXCEPTIONS AND

NEIGHBORHOOD HOUSING SERVICES OF

ADJUST WATER VALVE BOX,
STA. 109+98.9, 19.5' LT.
RIM = 607.00

ADJUSTING MANHOLE COVERS,
STA. 110+06.2, 5.5' RT.
RIM = 607.41

ADJUST WATER VALVE BOX,
STA. 110+03.8, 13.5' RT.
RIM = 607.26

ADJUST WATER VALVE BOX,
STA. 110+48.6, 18.5' RT.
RIM = 606.88

ADJUST WATER VALVE BOX,
STA. 110+15.0, 28.0' RT.
RIM = 606.92

ADJUST WATER VALVE BOX,
STA. 113+00.5, 8.5' RT.
RIM = 608.16

ADJUSTING MANHOLE COVERS,
STA. 113+29.9, 5.1' RT.
RIM = 608.26

ADJUST WATER VALVE BOX,
STA. 113+70.5, 18.5' RT.
RIM = 608.43

ADJUST WATER VALVE BOX,
STA. 113+32.0, 30.5' RT.
RIM = 609.26

ADJUST WATER VALVE BOX,
STA. 113+05.5, 13.5' RT.
RIM = 608.29

109+00 110+00 111+00 112+00 113+00 114+00

8" PVC 10" PVC 12" PVC 8" PVC 12" PVC 8" PVC 8" PVC 12" PVC

ABANDONED 8" C.I.

JOHN W. MARRICK
802 SPRUCE ST.

KARL D.
WACHHOLZ
803 ASH ST.

ASH STREET

ADJUSTING MANHOLE COVERS,
STA. 116+63.5, 48.9' LT.
RIM = 609.10

ADJUST WATER VALVE BOX,
STA. 116+48.9, 37.0' LT.
RIM = 609.05

ADJUSTING MANHOLE COVERS,
STA. 116+88.1, 29.7' LT.
RIM = 609.67

PC: 114+57.57

PT: 118+11.67

EP: 119+20.74

115+00 116+00 117+00 118+00 119+00

12" PVC 12" PVC

ADJUST WATER VALVE BOX,
STA. 116+10.3, 10.7' RT.
RIM = 609.78

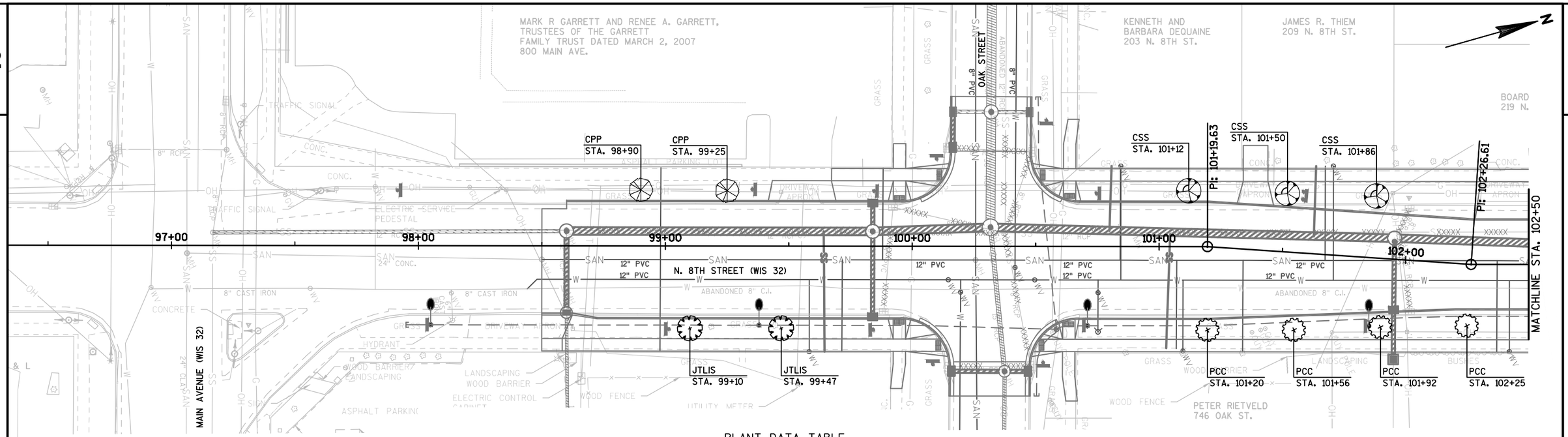
ADJUST WATER VALVE BOX,
STA. 116+16.1, 16.1' RT.
RIM = 609.76

NOTE: ALL SANITARY SEWER AND WATERMAIN PIPES TO BE INSTALLED BY OTHERS PRIOR TO CONSTRUCTION

PROJECT NO: 4085-42-71	HWY: WIS 32 (8TH STREET)	COUNTY: BROWN	SANITARY SEWER & WATERMAIN	SHEET 43	E

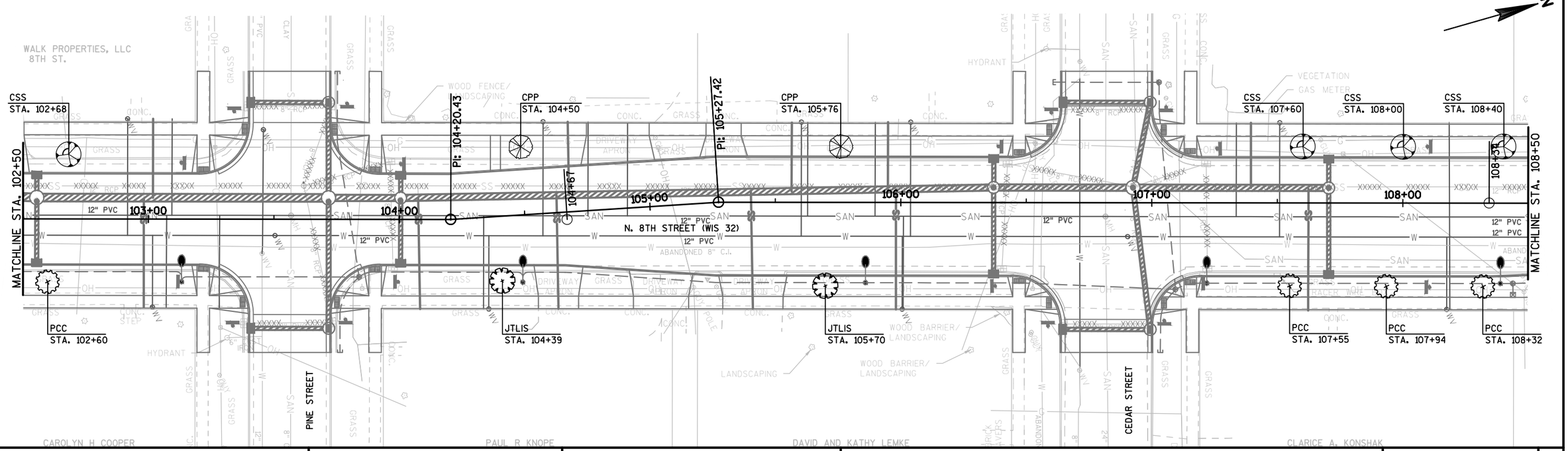
FILE NAME : P:\90S\93\00093265\CADD\SHEETSPLAN\SANITARY SEWER & WATERMAIN.DWG
LAYOUT NAME - SANITARY SEWER & WATERMAIN - 023002-UP

PLOT DATE : 7/13/2016 3:35 PM PLOT BY : JASON DOLENS PLOT NAME : PLOT SCALE : 1"= 40'_XREF



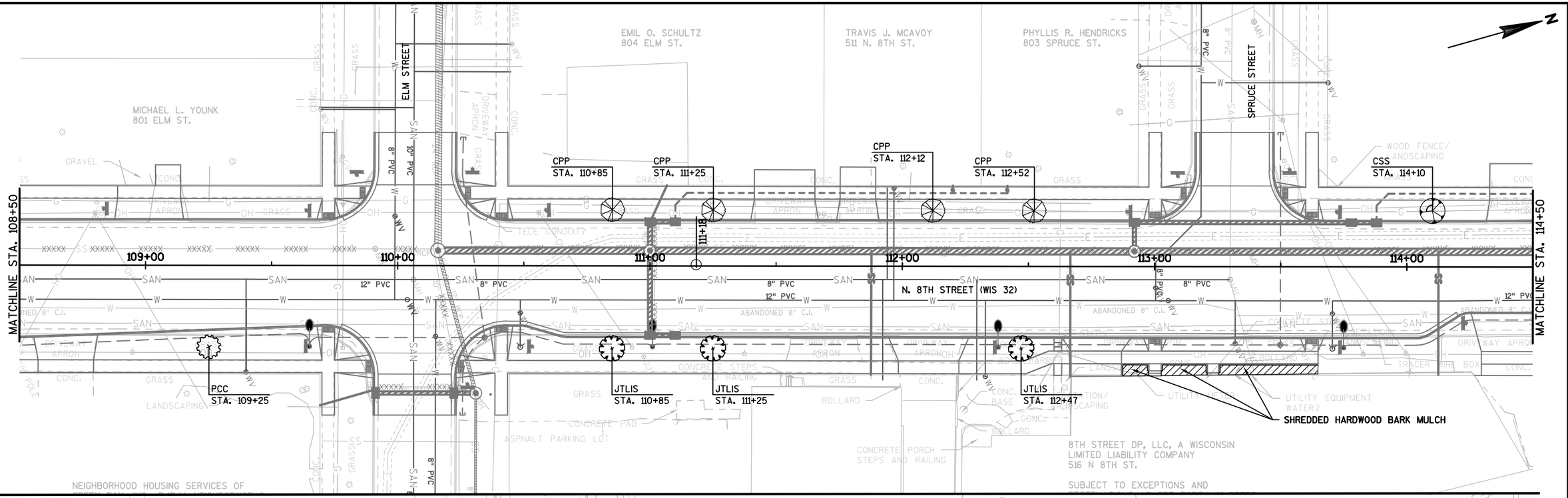
PLANT DATA TABLE

SYMBOL	COMMON NAME	SCIENTIFIC NAME	AVG. MATURE HEIGHT	SIZE WHEN PLANTED	ROOT ZONE	BALL DIA.	BALL DEPTH	PLANT HOLE DIA.	PLANT HOLE DEPTH	FERTLIZER UNITS REQ'D.	RODENT PROTECTION REQ'D.	BRACING REQ'D.	MULCH RING REQ'D.
PCC	PEAR, CALLERY 'CHANTICLEER'	PYRUS CALLERYANA 'CHANTICLEER'	25'-35' HT.	2" CAL.	B&B	32"	20"	48"	48"	5	YES	YES	4' DIA.
JTLIS	JAPANESE TREE LILAC, 'IVORY SILK'	SYRINGA RETICULATA 'IVORY SILK'	20'-25' HT.	2" CAL.	B&B	32"	20"	48"	48"	5	YES	YES	4' DIA.
CPP	CRABAPPLE, 'PURPLE PRINCE'	MALUS 'PURPLE PRINCE'	15'-25' HT.	2" CAL.	B&B	32"	20"	48"	48"	5	YES	YES	4' DIA.
CSS	CRABAPPLE, 'SPRING SNOW'	MALUS 'SPRING SNOW'	15'-25' HT.	2" CAL.	B&B	32"	20"	48"	48"	5	YES	YES	4' DIA.



PROJECT NO: 4085-42-71	HWY: WIS 32 (8TH STREET)	COUNTY: BROWN	PLANTING DETAILS	SHEET 44	E

FILE NAME : P:\90S\93\00093265\CADD\SHEETSPLAN\PLANTING PLAN.DWG
LAYOUT NAME - PLANTING PLAN - 023101-PL
PLOT DATE : 7/13/2016 3:40 PM PLOT BY : JASON DOLENS PLOT NAME : PLOT SCALE : 1"= 40'_XREF
WISDOT/CADDS SHEET 42



PROJECT NO: 4085-42-71	HWY: WIS 32 (8TH STREET)	COUNTY: BROWN	PLANTING DETAILS	SHEET 45	E

2

LEGEND

ESTR: EXISTING SIGN TO REMAIN

- A PAVEMENT MARKING EPOXY 4-INCH, SOLID DOUBLE YELLOW
- B PAVEMENT MARKING EPOXY 4-INCH, WHITE
- C PAVEMENT MARKING EPOXY 4-INCH, WHITE, 3' LINE, 9' GAP
- D PAVEMENT MARKING CROSSWALK EPOXY 6-INCH, WHITE
- E PAVEMENT MARKING EPOXY 8-INCH, WHITE
- F PAVEMENT MARKING STOP LINE EPOXY 12-INCH, WHITE
- G PAVEMENT MARKING DIAGONAL EPOXY 12-INCH, YELLOW
- H PAVEMENT MARKING STOP LINE EPOXY, 18-INCH, WHITE
- I PAVEMENT MARKING ARROWS BIKE LANE EPOXY
- J PAVEMENT MARKING SYMBOLS BIKE LANE EPOXY
- K PAVEMENT MARKING ARROWS EPOXY TYPE 2
- L PAVEMENT MARKING WORDS EPOXY
- M PAVEMENT MARKING EPOXY 8-INCH, WHITE, 3' LINE, 9' GAP
- N PAVEMENT MARKING CROSSWALK EPOXY 18-INCH, WHITE

WEST TO COUNTY G 41 ESTR
SPEED LIMIT 25 ESTR
ESTR
STOP ESTR
SOUTH TO 32 57 ESTR
STOP ESTR
SOUTH TO 32 57 ESTR
STOP ESTR
Main Ave N Eighth St ESTR
SOUTH TO 32 57 ESTR
STOP ESTR
NORTH 32 ESTR

1.1 BIKE LANE R3-17 30"X24"
1.2 ENDS R3-17-B 30"X12"
1.3 NO PARKING ANY TIME R7-1-R 18"X24"
REMOVE EXISTING WHITE SKIP-DASH PAVEMENT MARKINGS (TYP.)
STOP ESTR (PRIVATE)
1.4 ONLY R3-8-A 36"X30"
1.5 BIKE LANE R3-17 30"X24"
1.6 NO PARKING ANY TIME R7-1-L 18"X24"
REMOVE EXISTING DOUBLE YELLOW PAVEMENT MARKING
E1.1 E1.2 E1.3 E1.4 E1.5 E1.6 E1.7
Oak St / N Eighth St STOP
1.7 Oak St INSTALL CITY SUPPLIED STREET NAME SIGN
1.8 N Eighth St INSTALL CITY SUPPLIED STREET NAME SIGN
1.9 STOP R1-1 30"X30"
1.10 R5-2 24"X24"
1.11 NO PARKING ANY TIME R7-1-R 18"X24"
1.12 J3-2 48"X57" SOUTH TO M3-3 24"X12" M4-5 24"X12" 32 57 M1-6B 24"X24" M1-6B 24"X24" M5-1L 21"X21" M5-1L 21"X21"
1.13 BIKE LANE R3-17 30"X24"
1.14 NO PARKING ANY TIME R7-1-L 18"X24"
1.15 J4-1 24"X36" NORTH M3-1 24"X12" 32 M1-6B 24"X24" NORTH 32
1.16 NO PARKING ANY TIME R7-1-R 18"X24"
1.17 R5-2 24"X24"
1.18 STOP R1-1 30"X30"
1.19 BIKE LANE R3-17 30"X24"
1.20 NO PARKING ANY TIME R7-1-L 18"X24"
1.21 SPEED LIMIT 25 R2-1 24"X30"

97+00 98+00 99+00 100+00 101+00 102+00
PI: 101+19.63
PI: 102+26.61
MATCHLINE STA. 102+50
50' 12' 6' 75' 50' 4' (TYP.) 6' (TYP.) 11' 25'
N. 8TH STREET (WIS 32)
OAK STREET
MAIN AVENUE (WIS 32)
(UTILITY POLE) BUS STOP (SALVAGE BY OTHERS)
TRAFFIC SIGNAL
ELECTRIC SERVICE
ASPHALT PARKING LOT
CONCRETE
CONCRETE ISLAND
CONCRETE PAD
GRASS
DRIVEWAY APRON
HYDRANT
WOOD BARRIER/LANDSCAPING
LANDSCAPING
WOOD BARRIER
ELECTRIC CONTROL
WOOD
WOOD FENCE
BUSHES
CONC.
POST
GUY
SIGN
YIELD

NOTE:
ALL EXISTING SIGNS AND POSTS WITHIN THE PROJECT LIMITS TO BE REMOVED BY THE CONTRACTOR UNLESS OTHERWISE NOTED.

PROJECT NO: 4085-42-71	HWY: WIS 32 (8TH STREET)	COUNTY: BROWN	PERMANENT SIGNING AND PAVEMENT MARKINGS	SHEET 46	E

2

N

Pine St / N Eighth St — STOP — E2.1

2.3 Pine St — INSTALL CITY SUPPLIED STREET NAME SIGN

2.4 N Eighth St — INSTALL CITY SUPPLIED STREET NAME SIGN

2.5 STOP — R1-1 30"X30"

2.1 BIKE LANE — R3-17 30"X24"

2.2 NO PARKING ANY TIME — R7-1-L 18"X24"

2.6 R5-2 24"X24"

2.7 NO PARKING ANY TIME — R7-1-R 18"X24"

Cedar St / N Eighth St — STOP — E2.2

2.10 Cedar St — INSTALL CITY SUPPLIED STREET NAME SIGN

2.11 N Eighth St — INSTALL CITY SUPPLIED STREET NAME SIGN

2.12 STOP — R1-1 30"X30"

2.8 BIKE LANE — R3-17 30"X24"

2.9 NO PARKING ANY TIME — R7-1-L 18"X24"

(SALVAGE BY OTHERS) — WELCOME

(SALVAGE BY OTHERS) — BUS STOP

2.13 R5-2 24"X24"

2.14 NO PARKING ANY TIME — R7-1-R 18"X24"

E2.3 (UTILITY POLE) SPEED LIMIT 25

2.15 J4-1 24"X36" SOUTH M3-3 24"X12" 32 M1-6B 24"X24"

MATCHLINE STA. 102+50

6' 12' 50' 103+00 6' (TYP.) N (TYP.)

4' (TYP.) H

D

A B C I J

PI: 104+20.43

N (TYP.) 104+00 50' 12'

104+67

G (TYP.)

105+00 25'

PI: 105+27.42

6' N. 8TH STREET (WIS 32) 106+00 11' 12' 6' (TYP.) N (TYP.)

11' B 6' 50' K

107+00 N (TYP.) 50' 6' 108+00 11' 12' 25'

MATCHLINE STA. 108+50

6' (TYP.)

2.16 NO PARKING ANY TIME — R7-1-R 18"X24"

2.17 NO OUTLET — W14-2 30"X30"

E2.4 DEAD END

PINE STREET

2.19 BIKE LANE — R3-17 30"X24"

2.20 NO PARKING ANY TIME — R7-1-L 18"X24"

2.18 STOP — R1-1 30"X30"

STOP E2.5

2.21 NO PARKING ANY TIME — R7-1-R 18"X24"

(UTILITY POLE) WELCOME (SALVAGE BY OTHERS)

2.22 R5-2 24"X24"

CEDAR STREET

2.24 BIKE LANE — R3-17 30"X24"

2.25 NO PARKING ANY TIME — R7-1-L 18"X24"

2.26 J4-1 24"X36" NORTH M3-1 24"X12" 32 M1-6B 24"X24"

E2.9 SPEED LIMIT 25

NORTH 32 E2.8

E2.6

2.23 STOP — R1-1 30"X30"

STOP E2.7

LEGEND

ESTR: EXISTING SIGN TO REMAIN

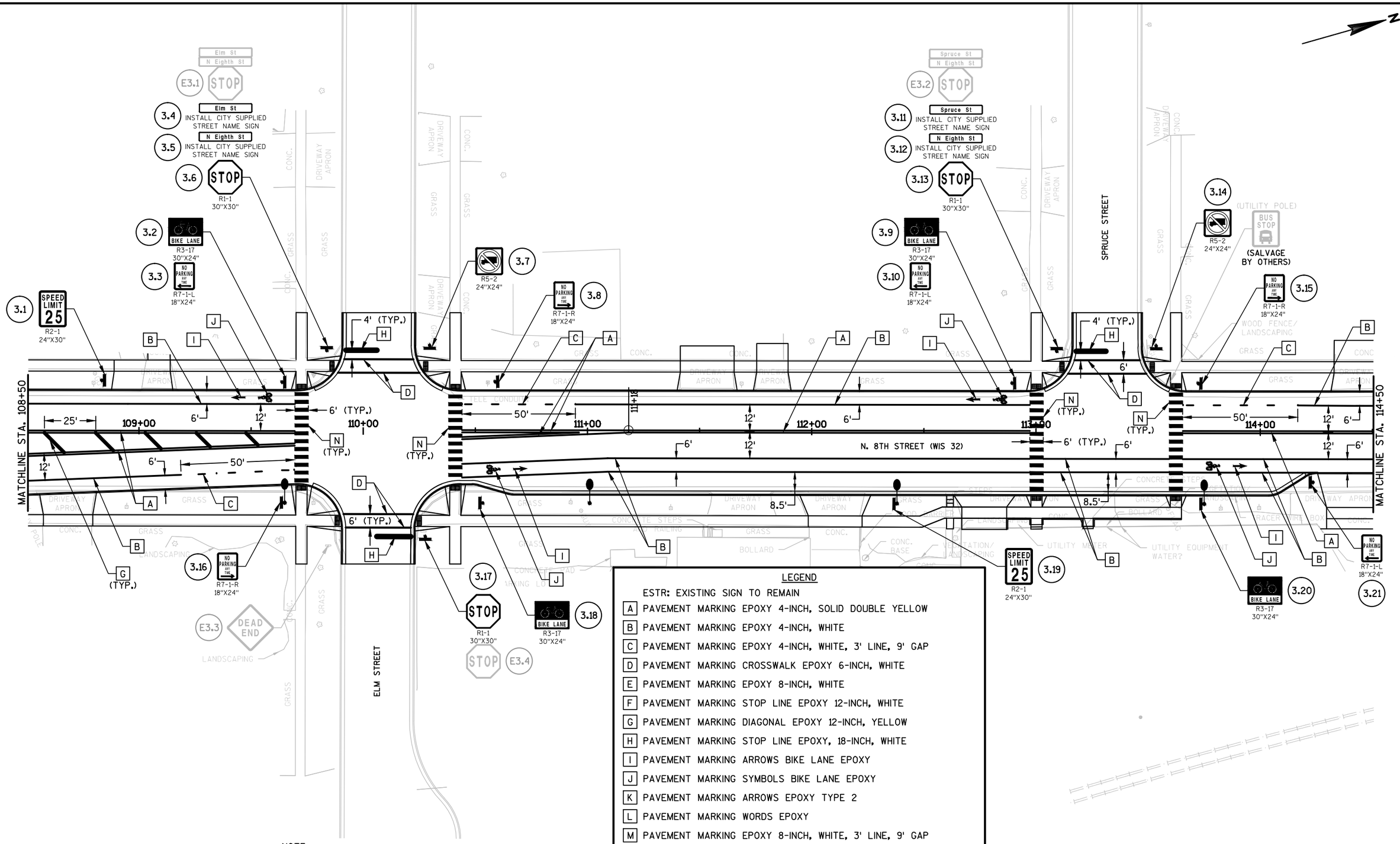
- A PAVEMENT MARKING EPOXY 4-INCH, SOLID DOUBLE YELLOW
- B PAVEMENT MARKING EPOXY 4-INCH, WHITE
- C PAVEMENT MARKING EPOXY 4-INCH, WHITE, 3' LINE, 9' GAP
- D PAVEMENT MARKING CROSSWALK EPOXY 6-INCH, WHITE
- E PAVEMENT MARKING EPOXY 8-INCH, WHITE
- F PAVEMENT MARKING STOP LINE EPOXY 12-INCH, WHITE
- G PAVEMENT MARKING DIAGONAL EPOXY 12-INCH, YELLOW
- H PAVEMENT MARKING STOP LINE EPOXY, 18-INCH, WHITE
- I PAVEMENT MARKING ARROWS BIKE LANE EPOXY
- J PAVEMENT MARKING SYMBOLS BIKE LANE EPOXY
- K PAVEMENT MARKING ARROWS EPOXY TYPE 2
- L PAVEMENT MARKING WORDS EPOXY
- M PAVEMENT MARKING EPOXY 8-INCH, WHITE, 3' LINE, 9' GAP
- N PAVEMENT MARKING CROSSWALK EPOXY 18-INCH, WHITE

NOTE:
ALL EXISTING SIGNS AND POSTS WITHIN THE PROJECT LIMITS TO BE REMOVED BY THE CONTRACTOR UNLESS OTHERWISE NOTED.

PROJECT NO: 4085-42-71	HWY: WIS 32 (8TH STREET)	COUNTY: BROWN	PERMANENT SIGNING AND PAVEMENT MARKINGS	SHEET 47	E

FILE NAME : P:\90S\93\00093265\CADD\SHEETSPLAN\PERMANENT SIGNING.DWG
LAYOUT NAME - PERMANENT SIGNING - 023202-PS-PM
PLOT DATE : 7/13/2016 3:43 PM PLOT BY : JAIME KURTEN PLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2



NOTE:
ALL EXISTING SIGNS AND POSTS WITHIN THE PROJECT LIMITS TO BE REMOVED BY THE CONTRACTOR UNLESS OTHERWISE NOTED.

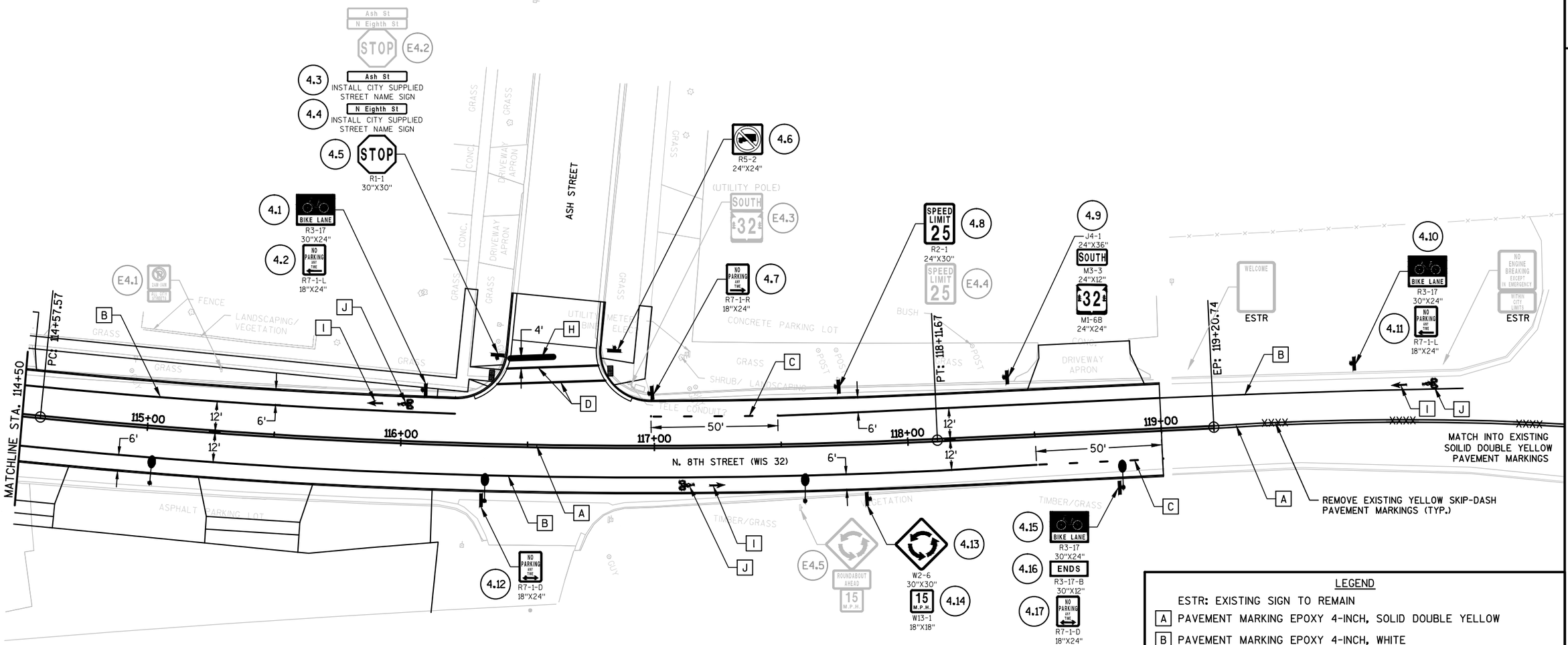
LEGEND

ESTR: EXISTING SIGN TO REMAIN

- [A] PAVEMENT MARKING EPOXY 4-INCH, SOLID DOUBLE YELLOW
- [B] PAVEMENT MARKING EPOXY 4-INCH, WHITE
- [C] PAVEMENT MARKING EPOXY 4-INCH, WHITE, 3' LINE, 9' GAP
- [D] PAVEMENT MARKING CROSSWALK EPOXY 6-INCH, WHITE
- [E] PAVEMENT MARKING EPOXY 8-INCH, WHITE
- [F] PAVEMENT MARKING STOP LINE EPOXY 12-INCH, WHITE
- [G] PAVEMENT MARKING DIAGONAL EPOXY 12-INCH, YELLOW
- [H] PAVEMENT MARKING STOP LINE EPOXY, 18-INCH, WHITE
- [I] PAVEMENT MARKING ARROWS BIKE LANE EPOXY
- [J] PAVEMENT MARKING SYMBOLS BIKE LANE EPOXY
- [K] PAVEMENT MARKING ARROWS EPOXY TYPE 2
- [L] PAVEMENT MARKING WORDS EPOXY
- [M] PAVEMENT MARKING EPOXY 8-INCH, WHITE, 3' LINE, 9' GAP
- [N] PAVEMENT MARKING CROSSWALK EPOXY 18-INCH, WHITE

PROJECT NO: 4085-42-71	HWY: WIS 32 (8TH STREET)	COUNTY: BROWN	PERMANENT SIGNING AND PAVEMENT MARKINGS	SHEET 48	E

2



LEGEND

ESTR: EXISTING SIGN TO REMAIN

- [A] PAVEMENT MARKING EPOXY 4-INCH, SOLID DOUBLE YELLOW
- [B] PAVEMENT MARKING EPOXY 4-INCH, WHITE
- [C] PAVEMENT MARKING EPOXY 4-INCH, WHITE, 3' LINE, 9' GAP
- [D] PAVEMENT MARKING CROSSWALK EPOXY 6-INCH, WHITE
- [E] PAVEMENT MARKING EPOXY 8-INCH, WHITE
- [F] PAVEMENT MARKING STOP LINE EPOXY 12-INCH, WHITE
- [G] PAVEMENT MARKING DIAGONAL EPOXY 12-INCH, YELLOW
- [H] PAVEMENT MARKING STOP LINE EPOXY, 18-INCH, WHITE
- [I] PAVEMENT MARKING ARROWS BIKE LANE EPOXY
- [J] PAVEMENT MARKING SYMBOLS BIKE LANE EPOXY
- [K] PAVEMENT MARKING ARROWS EPOXY TYPE 2
- [L] PAVEMENT MARKING WORDS EPOXY
- [M] PAVEMENT MARKING EPOXY 8-INCH, WHITE, 3' LINE, 9' GAP
- [N] PAVEMENT MARKING CROSSWALK EPOXY 18-INCH, WHITE

NOTE:
ALL EXISTING SIGNS AND POSTS WITHIN THE PROJECT LIMITS TO BE REMOVED BY THE CONTRACTOR UNLESS OTHERWISE NOTED.

LEGEND

- CONDUIT RIGID NONMETALLIC SCHEDULE 40, 2-INCH UNLESS OTHERWISE NOTED (SCHEDULE 80, 2-INCH UNDER ROADWAY)
- PROPOSED LIGHTING UNIT
- PULL BOXES STEEL 24X42-INCH
- LIGHTING CONTROL CABINET AND ELECTRICAL SERVICE METER BREAKER PEDESTAL ON CONCRETE CONTROL CABINET BASE

X-X-(X,X)
STA. XXX+XX.X, XX.X' RT.
X-X(T)-XX'

- CONTROL CABINET DESIGNATION
- POLE NUMBER
- LIGHTING CIRCUIT(S)
- LOCATION (TO CENTER OF POLE)
- LUMINAIRE ARM LENGTH
- POLE TYPE (T=WITH TRANSFORMER BASE) (WITH MATCHING CONCRETE BASE TYPE)
- LUMINAIRE DESIGNATION (LED)

- CONDUIT QUANTITY / SIZE
- PHASE CONDUCTOR QUANTITY/SIZE (AWG) / CIRCUIT
- EQUIPMENT GROUNDING CONDUCTOR QUANTITY / SIZE (AWG)

1 2" | 2 4 1,3 | 1 4 GRD

MARK R GARRETT AND RENEE A. GARRETT, TRUSTEES OF THE GARRETT FAMILY TRUST DATED MARCH 2, 2007
800 MAIN AVE.

KENNETH AND BARBARA DEQUAINE
203 N. 8TH ST.

JAMES R. THIEM
209 N. 8TH ST.

BOARD
219 N.

CAP CONDUIT STUB
60.5' LT.

PI: 101+19.63

PI: 102+26.61

MATCHLINE STA. 102+50

97+00 | 98+00 | 99+00 | 100+00 | 101+00 | 102+00

N. 8TH STREET (WIS 32)

CONDUIT SPECIAL 2-INCH UNDER DRIVEWAY

CAP CONDUIT STUB
STA. 97+95.0

1-1-(1,3)
STA. 98+05.0, 32.0' RT.
A(MOD.)-5(MOD.)(T)-12'

1-2-(1,3)
STA. 99+38.0, 32.0' RT.
A(MOD.)-5(MOD.)(T)-12'

CAP CONDUIT STUB
60.5' RT.

1-3-(1,3)
STA. 100+71.0, 32.0' RT.
A(MOD.)-5(MOD.)(T)-12'

1-4-(1,3)
STA. 101+87.0, 27.6' RT.
A(MOD.)-5(MOD.)(T)-12'

PB-1
STA. 100+58.5, 33.5' RT.

1 2" | 2 12 1,3 | 1 12 GRD

1 2" | 2 10 1,3 | 1 10 GRD

1 2" | 2 10 | 1 10

KKB PROPERTIES LLC
746 MAIN AVE.

SUZETTE D FRANKLIN
749 OAK ST.

PETER RIETVELD
746 OAK ST.

OAK STREET

MAIN AVENUE (WIS 32)

PROJECT NO: 4085-42-71	HWY: WIS 32 (8TH STREET)	COUNTY: BROWN	STREET LIGHTING	SHEET 50	E

LEGEND

- CONDUIT RIGID NONMETALLIC SCHEDULE 40, 2-INCH UNLESS OTHERWISE NOTED (SCHEDULE 80, 2-INCH UNDER ROADWAY)
- PROPOSED LIGHTING UNIT
- PULL BOXES STEEL 24X42-INCH
- LIGHTING CONTROL CABINET AND ELECTRICAL SERVICE METER BREAKER PEDESTAL ON CONCRETE CONTROL CABINET BASE

X-X-(X,X)
- CONTROL CABINET DESIGNATION
- POLE NUMBER
- LIGHTING CIRCUIT(S)

STA. XXX+XX.X, XX.X' RT. — LOCATION (TO CENTER OF POLE)

X-X(T)-XX'
- LUMINAIRE ARM LENGTH
- POLE TYPE (T=WITH TRANSFORMER BASE) (WITH MATCHING CONCRETE BASE TYPE)
- LUMINAIRE DESIGNATION (LED)

1 2" | 2 4 1,3 | 1 4 GRD
- CONDUIT QUANTITY / SIZE
- PHASE CONDUCTOR QUANTITY/SIZE (AWG) / CIRCUIT
- EQUIPMENT GROUNDING CONDUCTOR QUANTITY / SIZE (AWG)

N

MATCHLINE STA. 102+50

MATCHLINE STA. 108+50

8TH ST.

BRENT AND BOBBIE ASHPOLE
808 PINE ST.

MARILYN J. EBBEN AND ALLEN DEGROOT
301 N. 8TH ST.

ANDREW D. ROBBINS
311 N. 8TH ST.

WOBIN ZHANG AND RENWEN YU
309 N. 8TH ST.

LARRY AND WENDI LEMMEN
810 CEDAR ST.

ROGER MAHLER AND TAMMY VALLEY
802 CEDAR ST.

CAROLYN H COOPER
218 N. EIGHTH ST.

PAUL R KNOPE
746 PINE ST.

ROBERT J. SMITS, JR AND JOANNE C. WICKER
738 PINE ST.

PATRICK J. ROFFERS
734 PINE ST.

DAVID AND KATHY LEMKE
745 CEDAR ST.

PATRICIA L. MELCHOIR
739 CEDAR ST.

CLARICE A. KONSHAK
402 N. EIGHTH ST.

MARK S. BELLIN
738 CEDAR ST.

PINE STREET

CEDAR STREET

N. 8TH STREET (WIS 32)

103+00 104+00 105+00 106+00 107+00 108+00

PI: 104+20.43

PI: 105+27.42

CAP CONDUIT STUB
59.0' LT.

CAP CONDUIT STUB
STA. 106+60

PB-4
STA. 107+03.0, 48.0' LT.

1-5-(1,3)
STA. 103+13.0, 25.0' RT.
A(MOD.)-5(MOD.)(T)-12'

PB-2
STA. 103+84.0, 23.0' RT.

CAP CONDUIT STUB
53.0' RT.

1-6-(1,3)
STA. 104+47.5, 26.8' RT.
A(MOD.)-5(MOD.)(T)-12'

1-7-(1,3)
STA. 105+86.0, 32.0' RT.
A(MOD.)-5(MOD.)(T)-12'

CAP CONDUIT STUB
60.0' RT.

1-9-(1,3)
STA. 108+39.0, 25.0' RT.
A(MOD.)-5(MOD.)(T)-12'

PB-5
STA. 108+44.0, 32.0' RT.

LCC-1
STA. 108+44.0, 36.5' RT.

1-8-(1,3)
STA. 107+22.0, 32.0' RT.
A(MOD.)-5(MOD.)(T)-12'

PB-3
STA. 107+09.5, 34.5' RT.

PROJECT NO: 4085-42-71	HWY: WIS 32 (8TH STREET)	COUNTY: BROWN	STREET LIGHTING	SHEET 51	E

LEGEND

- CONDUIT RIGID NONMETALLIC SCHEDULE 40, 2-INCH UNLESS OTHERWISE NOTED (SCHEDULE 80, 2-INCH UNDER ROADWAY)
- PROPOSED LIGHTING UNIT
- PULL BOXES STEEL 24X42-INCH
- LIGHTING CONTROL CABINET AND ELECTRICAL SERVICE METER BREAKER PEDESTAL ON CONCRETE CONTROL CABINET BASE

X-X-(X,X)
- CONTROL CABINET DESIGNATION
- POLE NUMBER
- LIGHTING CIRCUIT(S)

STA. XXX+XX.X, XX.X' RT. — LOCATION (TO CENTER OF POLE)

X-X(T)-XX'
- LUMINAIRE ARM LENGTH
- POLE TYPE (T=WITH TRANSFORMER BASE) (WITH MATCHING CONCRETE BASE TYPE)
- LUMINAIRE DESIGNATION (LED)

- CONDUIT QUANTITY / SIZE
- PHASE CONDUCTOR QUANTITY/SIZE (AWG) / CIRCUIT
- EQUIPMENT GROUNDING CONDUCTOR QUANTITY / SIZE (AWG)

1 2" | 2 4 1,3 | 1 4 GRD

MATCHLINE STA. 108+50

MATCHLINE STA. 114+50

109+00 110+00 111+00 112+00 113+00 114+00

SPRUCE STREET

N. 8TH STREET (WIS 32)

ELM STREET

JESSE L. CHOPIN
811 SPRUCE ST.

JAMES P. FRANCART
810 ELM ST.

CHRISTOPHER T. FUSS
810 SPRUCE ST.

EMIL O. SCHULTZ
804 ELM ST.

TRAVIS J. MCAVOY
511 N. 8TH ST.

PHYLLIS R. HENDRICKS
803 SPRUCE ST.

MICHAEL E. TOONK
801 ELM ST.

NEIGHBORHOOD HOUSING SERVICES OF GREEN BAY, INC., D/B/A NEIGHBORWORKS GREEN BAY
747-749 ELM ST.

CAROL J. KONSHAK
743 ELM ST.

DALE AND MARTHA SCHOTT

8TH STREET DP, LLC, A WISCONSIN LIMITED LIABILITY COMPANY
516 N 8TH ST.

SUBJECT TO EXCEPTIONS AND RESERVATIONS AS SET FORTH IN DEEDS 83282 AND 71776. BASICALLY RR HAS CONDITIONS ABOUT UTILITIES, GRADING AND FENCES.

CAP CONDUIT STUB
51.0' LT.

CAP CONDUIT STUB
53.0' LT.

CAP CONDUIT STUB
59.0' RT.

PB-6
STA. 110+34.5, 28.5' RT.

PB-7
STA. 113+50.0, 31.0' RT.

1-10-(2,4)
STA. 109+65.0, 32.0' RT.
A(MOD.)-5(MOD.)(T)-12'

1-11-(2,4)
STA. 111+01.0, 32.0' RT.
A(MOD.)-5(MOD.)(T)-12'

1-12-(2,4)
STA. 112+38.0, 32.0' RT.
A(MOD.)-5(MOD.)(T)-12'

1-13-(2,4)
STA. 113+75.0, 32.0' RT.
A(MOD.)-5(MOD.)(T)-12'

PROJECT NO: 4085-42-71	HWY: WIS 32 (8TH STREET)	COUNTY: BROWN	STREET LIGHTING	SHEET 52	E

FILE NAME : P:\90S\93\00093265\CADD\SHEETSPLAN\STREET LIGHTING.DWG
LAYOUT NAME - STREET LIGHTING - 023603-LP

PLOT DATE : 10/25/2016 1:06 PM PLOT BY : JASON DOLENS PLOT NAME : PLOT SCALE : 1=40_XREF

WISDOT/CADDS SHEET 42

LEGEND

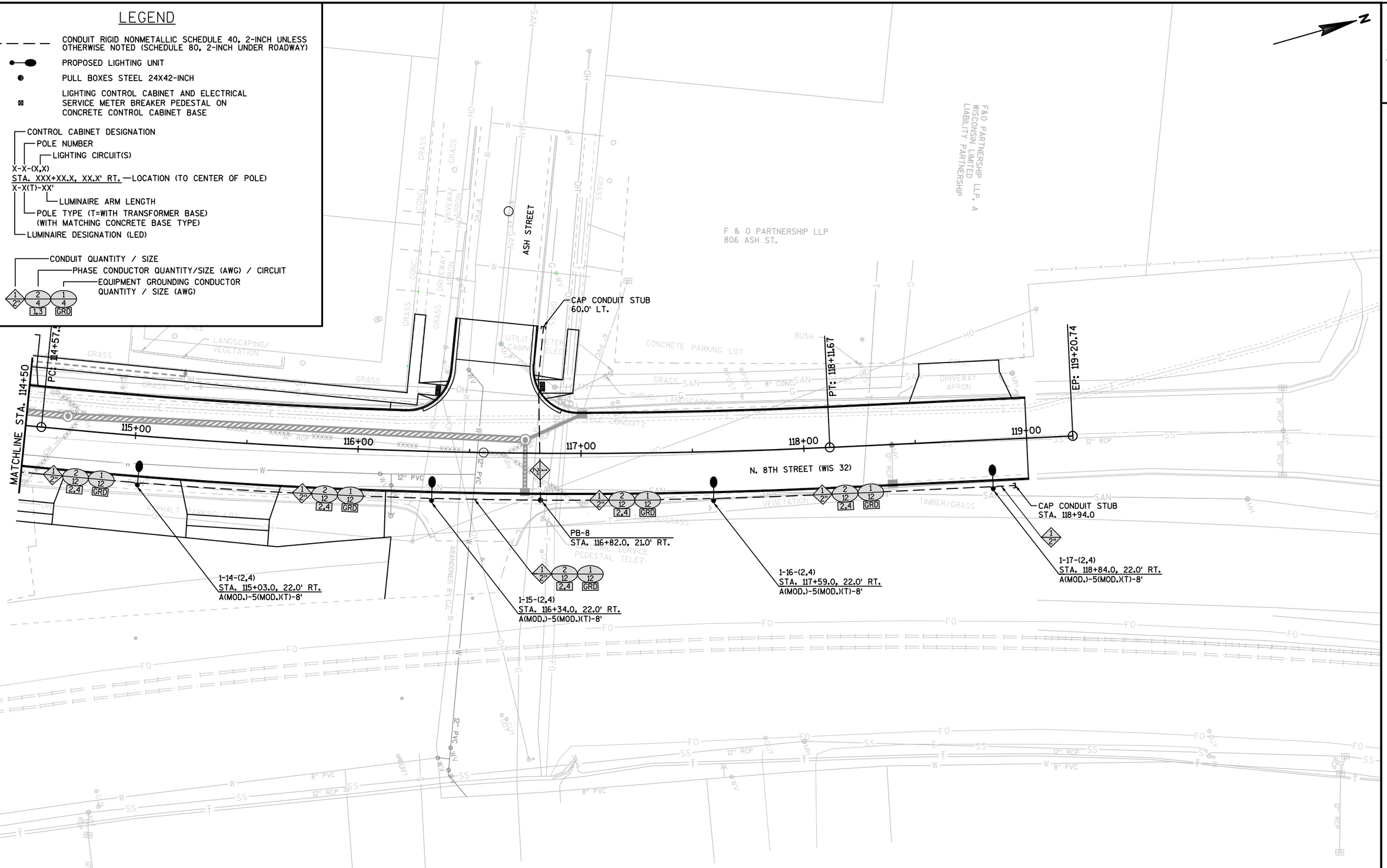
- CONDUIT RIGID NONMETALLIC SCHEDULE 40, 2-INCH UNLESS OTHERWISE NOTED (SCHEDULE 80, 2-INCH UNDER ROADWAY)
- PROPOSED LIGHTING UNIT
- PULL BOXES STEEL 24X42-INCH
- LIGHTING CONTROL CABINET AND ELECTRICAL SERVICE METER BREAKER PEDESTAL ON CONCRETE CONTROL CABINET BASE

X-X-(X,X)
- CONTROL CABINET DESIGNATION
- POLE NUMBER
- LIGHTING CIRCUIT(S)

STA. XXX+XX.X, XX.X' RT. — LOCATION (TO CENTER OF POLE)

X-X(T)-XX'
- LUMINAIRE ARM LENGTH
- POLE TYPE (T=WITH TRANSFORMER BASE) (WITH MATCHING CONCRETE BASE TYPE)
- LUMINAIRE DESIGNATION (LED)

1 / 2" — CONDUIT QUANTITY / SIZE
2 / 4 / 1,3 — PHASE CONDUCTOR QUANTITY/SIZE (AWG) / CIRCUIT
1 / 4 / GRD — EQUIPMENT GROUNDING CONDUCTOR QUANTITY / SIZE (AWG)



PROJECT NO: 4085-42-71	HWY: WIS 32 (8TH STREET)	COUNTY: BROWN	STREET LIGHTING	SHEET 53	E

2

LOIS ST.
N. 10TH ST.
N. ASHLAND AVE.
HOLMGREN WAY
GLORY RD.
N. 9TH ST.
S. 9TH ST.
APOLLO WAY
MORNING GLORY LN.
PARK ST.
MAIN AVE.
OAK ST.
PINE ST.
CEDAR ST.
ELM ST.
SPRUCE ST.
ASH ST.
TWILIGHT DR.
S. 8TH ST.
N. 8TH ST.
FT. HOWARD AVE.
ALLARD ST.
S. 7TH ST.
N. 7TH ST.
GRANT ST.
REID ST.
MAIN AVE ANNEX.
FIR ST.
BIRCH ST.
N. 6TH ST.
OAK ST.

SEE 'TRAFFIC CONTROL - ROUNDABOUT' SHEET
FOR ADDITIONAL TRAFFIC CONTROL DETAILS

SEE S.D.D. BARRICADES AND SIGNS FOR SIDEROAD CLOSURES, DETAIL 4
(CONTRACTOR, LOCAL BUSINESS AND RESIDENT ACCESS TO PROJECT)

LEGEND

- WORK AREA
- POST MOUNTED SIGN
- TYPE III BARRICADE WITH/WITHOUT SIGN
- TRAFFIC FLOW ARROW

(A) ROAD CLOSED — R11-2, 48"X30"

(B) ROAD CLOSED TO THRU TRAFFIC — R11-4, 60"X30"

(C) ROAD CLOSED AHEAD — W20-3A, 48"X48"

(D) END ROAD WORK — G20-2A, 48"X24"

(E) 32 — M1-6B, 24"X24"

(F) NORTH — M3-1, 24"X12"

(G) SOUTH — M3-3, 24"X12"

(H) N 8TH ST — TRAFFIC CONTROL SIGN FIXED MESSAGE, 30"X12" (2.5 S.F.) (SEE SIGN PLATE DETAIL)

(I) ROAD CLOSED 500 FT — W20-3D, 48"X48"

PROJECT NO: 4085-42-71	HWY: WIS 32 (8TH STREET)	COUNTY: BROWN	TRAFFIC CONTROL OVERVIEW	SHEET 54	E

FILE NAME : P:\90S\93\00093265\CADD\SHEETSPLAN\TRAFFIC CONTROL OVERVIEW.DWG
WIS 32 (8TH STREET) - TRAFFIC CONTROL OVERVIEW - 025001-TC
PLOT DATE : 7/12/2016 3:36 PM PLOT BY : JASON DOLENS PLOT NAME : PLOT SCALE : 0.024919
WISDOT/CADDS SHEET 42

2

LEGEND

WORK AREA

POST MOUNTED SIGN

TYPE III BARRICADE WITH/WITHOUT SIGN

TRAFFIC FLOW ARROW

Ⓐ ROAD CLOSED — R11-2, 48"X30"

Ⓑ ROAD CLOSED TO THRU TRAFFIC — R11-4, 60"X30"

Ⓒ ROAD CLOSED AHEAD — W20-3A, 48"X48"

Ⓓ END ROAD WORK — G20-2A, 48"X24"

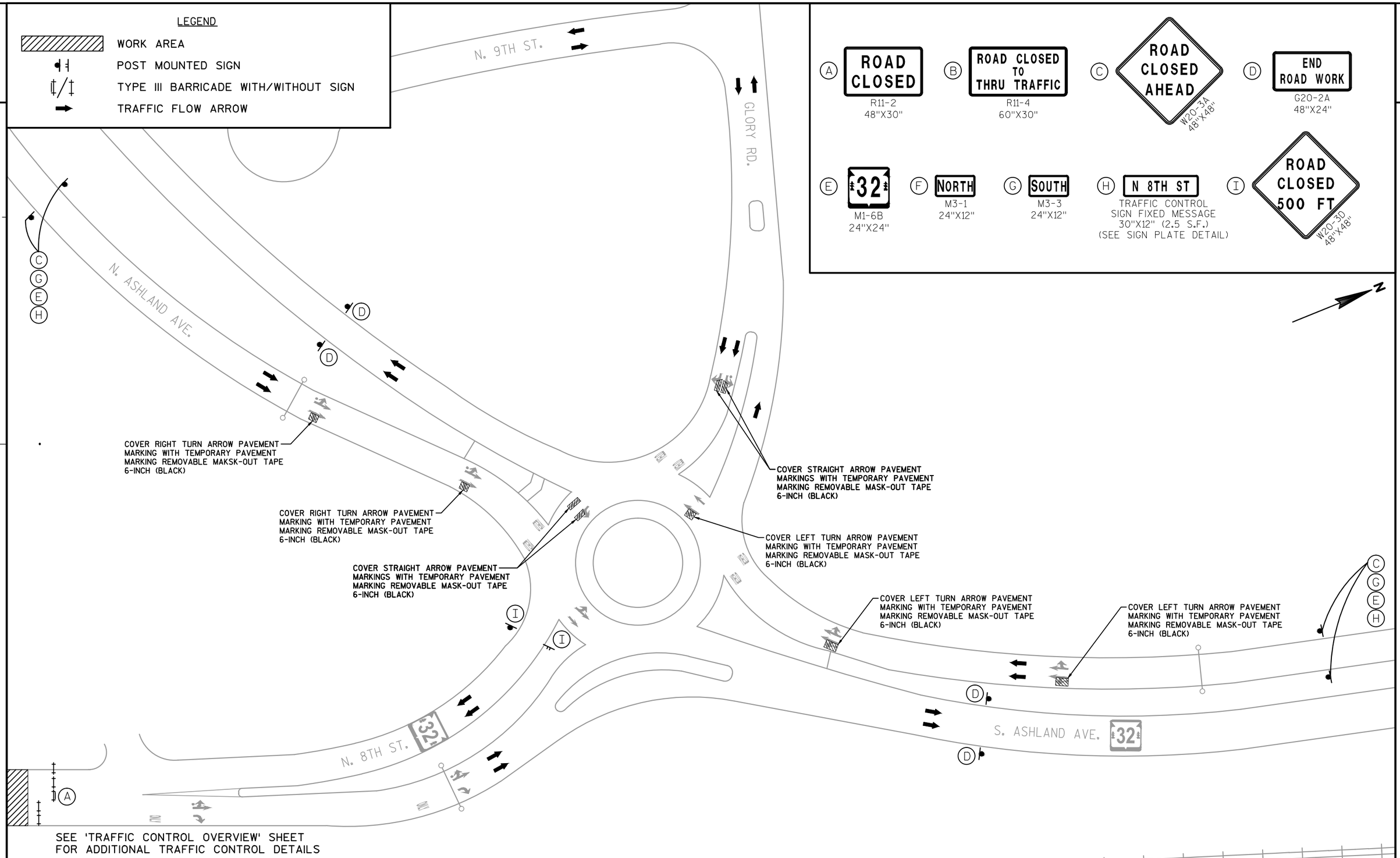
Ⓔ 32 — M1-6B, 24"X24"

Ⓕ NORTH — M3-1, 24"X12"

Ⓖ SOUTH — M3-3, 24"X12"

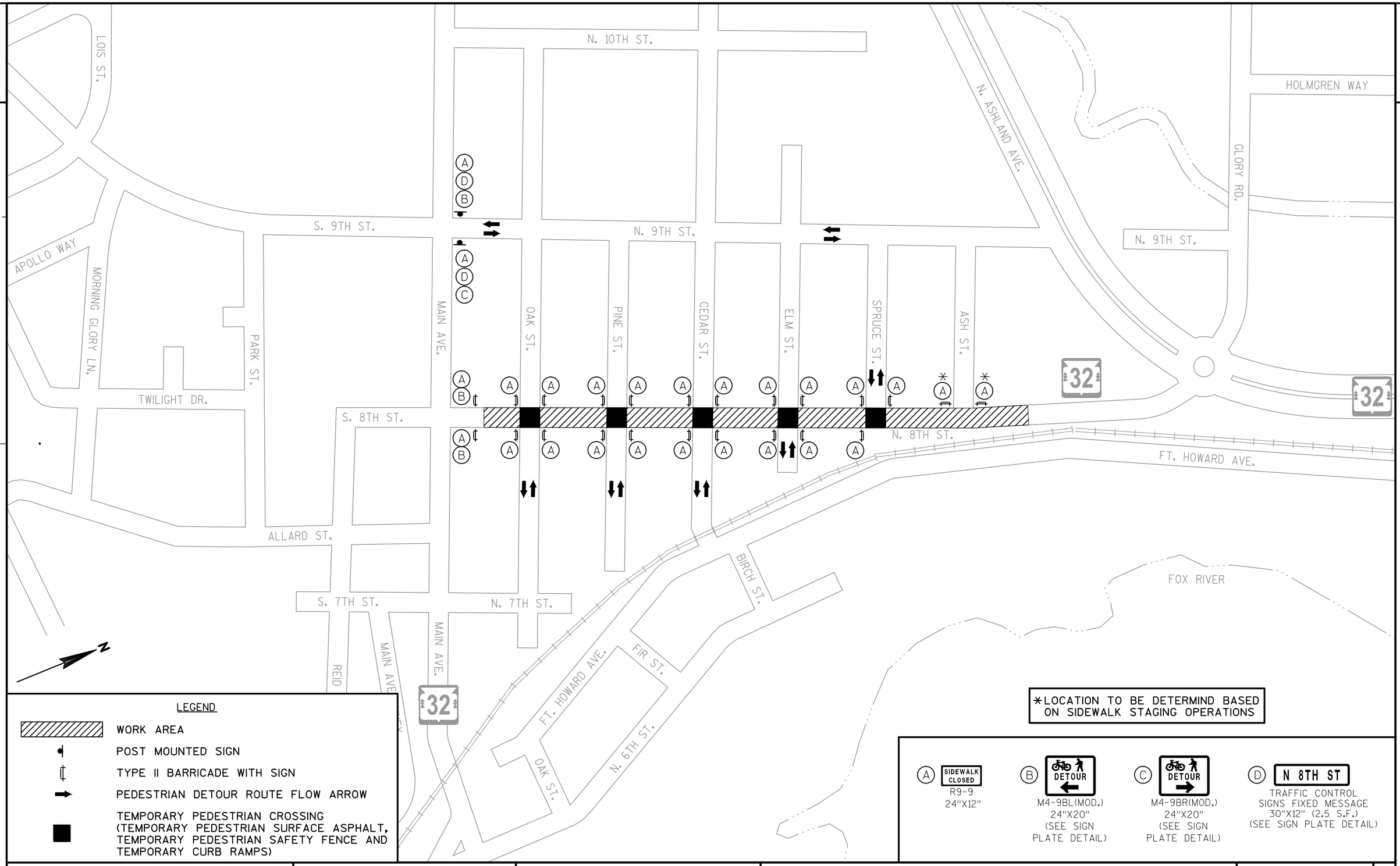
Ⓗ N 8TH ST — TRAFFIC CONTROL SIGN FIXED MESSAGE, 30"X12" (2.5 S.F.) (SEE SIGN PLATE DETAIL)

Ⓘ ROAD CLOSED 500 FT — W20-3D, 48"X48"



SEE 'TRAFFIC CONTROL OVERVIEW' SHEET
FOR ADDITIONAL TRAFFIC CONTROL DETAILS

PROJECT NO: 4085-42-71	HWY: WIS 32 (8TH STREET)	COUNTY: BROWN	TRAFFIC CONTROL - ROUNDABOUT	SHEET 55	E



PROJECT NO: 4085-42-71	HWY: WIS 32 (8TH STREET)	COUNTY: BROWN	PEDESTRIAN DETOUR SIGNING	SHEET	E

FILE NAME : P:\90S\93\00093265\CADD\SHEETSPLAN\TRAFFIC CONTROL OVERVIEW.DWG
WIS 32 (8TH STREET) - TRAFFIC CONTROL OVERVIEW - 025003-TC

PLOT DATE : 7/12/2016 3:36 PM PLOT BY : JASON DOLENS PLOT NAME : PLOT SCALE : 0.024919

WISDOT/CADDS SHEET 42

FOR INFORMATION ONLY - DETOUR WILL BE PROVIDED AND MAINTAINED BY PROJECT I.D. 4190-16-71

2 2

N

NORTH 32 Green Bay COVER SOUTH 32 De Pere

MODIFY FROM R3-8CC TO R3-8HH ONLY ONLY 36" X 30"

SOUTH 41 COVER SOUTH 32 De Pere

COVER SOUTH 32

76 75 73 74

HOLMGREN WAY

GLORY RD

SEE SHEET 2 OF 5

DETOUR M04-8 24" X 12" / NORTH M3-1 24" X 12" / 32 M1-6B 24" X 24" / M06-1 21" X 21"

14 12 10

N 10TH ST

77 COVER SOUTH 32 J4-1

COVER NORTH 32 J4-1 9

MODIFY FROM NORTH 32 J3-1 TO DETOUR M04-8 24" X 12" / NORTH 32 M06-1 21" X 21" 4

MODIFY FROM TO NORTH 41 32 J2-2 TO DETOUR M04-8 24" X 12" / TO NORTH 41 32 M06-1 21" X 21" 2

57

G

OAK ST

N 8TH ST

MAIN AVE

MATCH LINE

N 9TH ST

11 END DETOUR M04-8A 24" X 18" / 32 M1-6B 24" X 24"

REID ST

ALLARD ST.

S 7TH ST.

MAIN AVE

13 DETOUR M04-8 24" X 12" / SOUTH M3-3 24" X 12" / 32 M1-6B 24" X 24" / M06-1 21" X 21"

EE

GRANT ST

Fox River

7 ROAD CLOSED R11-2 48" X 30" 8 DETOUR M04-9L 30" X 24"

5 ROAD CLOSED R11-2 48" X 30" 6 DETOUR M04-9L 30" X 24"

3 To USH 41 Airport Green Bay D1-3 COVER

1 DETOUR AHEAD W020-2A 48" X 48"

57

LEGEND

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

SHEET 1 OF 5

PLAN SHEET PRODUCED BY WisDOT-NE REGION

PROJECT NO: 4190-16-71/72	HWY: STH 32	COUNTY: BROWN	DETOUR SIGNING DETAIL	SHEET 57	E

FILE NAME : N:\spo\traffic\A Work Zone\Detours\Brown County\STH 32\Ashland - 8th - Lombardi ave\027001_dt.dgn PLOT DATE : 31-MAR-2016 16:49 PLOT BY : dotj1f PLOT NAME : PLOT SCALE : 200:1

WISDOT/CADDS SHEET 42

FOR INFORMATION ONLY - DETOUR WILL BE PROVIDED AND MAINTAINED BY PROJECT I.D. 4190-16-71

2

2

* SIGNS TO BE REMOVED ON AUGUST 1, 2017 OR ONCE THE ASHWAUBENON CREEK STRUCTURE IS COMPLETED, WHICHEVER IS FIRST

NORTH M3-1 36" X 18"
32 M1-6B 36" X 36"
DETOUR AHEAD W020-2A 48" X 48" (16A) (16B) *

DETOUR M04-8 36" X 18"
NORTH M3-1 36" X 18"
32 M1-6B 36" X 36"
↑ M06-1 30" X 30" (16C) (16D) *

ASHLAND AVE CLOSED AHEAD
FOLLOW HWY 32 N DETOUR
FMS 114" X 72" (16E) (16F) *

DETOUR M04-8 24" X 12"
SOUTH M3-3 24" X 12"
32 M1-6B 24" X 24"
↗ M06-2 21" X 21" (44)

DETOUR M04-8 24" X 12"
SOUTH M3-3 24" X 12"
32 M1-6B 24" X 24"
↖ M06-2 21" X 21" (43)

DETOUR M04-8 24" X 12"
SOUTH M3-3 24" X 12"
32 M1-6B 24" X 24"
↰ M05-1L 21" X 21" (42)

CTH G

EXIT 163 A
SOUTH 41
G Main Ave
EXIT ONLY

SOUTH M03-3 36" X 18"
32 M01-56B 36" X 36" (41)

EXIT 163 A
SOUTH 41
G Main Ave ½ MILE
EXIT ONLY

SOUTH M03-3 36" X 18"
32 M01-56B 36" X 36" (40)

SOUTH 41 32 M01-56B 36" X 36" (39)

EXIT 164 A
SOUTH 41
AAA Oneida St Waube La
EXIT ONLY

SOUTH 41 32 M01-56B 36" X 36" (38)

EXIT 164 A
SOUTH 41
AAA Oneida St Waube La ¼ MILE
EXIT ONLY

SEE SHEET 3 OF 5

MATCH LINE

WAUBE LN.

USH 41/STH 32 SB
USH 41/STH 32 NB

ONEIDA ST.

MATCH LINE

SEE SHEET 1 OF 5

MAIN AVE

(16G) (16H) *
DETOUR M04-8 36" X 18"
NORTH M3-1 36" X 18"
32 M1-6B 36" X 36"
↑ M06-1 30" X 30"

(45)
DETOUR M04-8 24" X 12"
SOUTH M3-3 24" X 12"
32 M1-6B 24" X 24"
↗ M06-2 21" X 21"

(46)
DETOUR M04-8 24" X 12"
SOUTH M3-3 24" X 12"
32 M1-6B 24" X 24"
↑ M06-1 21" X 21"

(15)
DETOUR M04-8 24" X 12"
NORTH M3-1 24" X 12"
32 M1-6B 24" X 24"
↗ M06-2 21" X 21"

(15A) *
EXIT 163 B
Ashland Ave CLOSED
G20-60 108" X 24"

(16)
DETOUR M04-8 24" X 12"
NORTH M3-1 24" X 12"
32 M1-6B 24" X 24"
↑ M06-1 21" X 21"

EXIT 164 B | EXIT 164 A
41 NORTH 32 M01-56B 36" X 36" (17)
172 TO 43 A Straubel Airport ½ MILE
AAA Oneida St Waube La
EXIT ONLY

EXIT 164 B | EXIT 164 A
41 NORTH 18 32 M01-56B 36" X 36"
172 TO 43 A Straubel Airport
AAA Oneida St Waube La
EXIT ONLY

LEGEND

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

SHEET 2 OF 5

PLAN SHEET PRODUCED BY WisDOT-NE REGION

PROJECT NO: 4190-16-71/72	HWY: STH 32	COUNTY: BROWN	DETOUR SIGNING DETAIL	SHEET 58	E

FILE NAME : N:\spo\traffic\A Work Zone\Detours\Brown County\STH 32\Ashland - 8th - Lombardi ave\027002_dt.dgn PLOT DATE : 10-MAY-2016 13:45 PLOT BY : dotjlf PLOT NAME : PLOT SCALE : 800:1

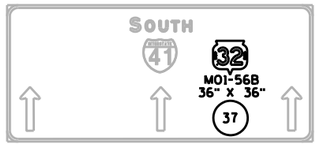
WISDOT/CADDS SHEET 42

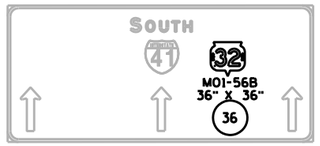
2

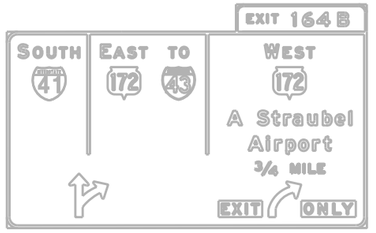
SEE SHEET 2 OF 5

MATCH LINE

N







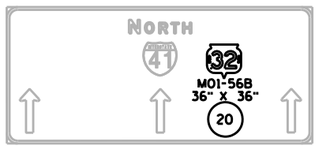
STH 172

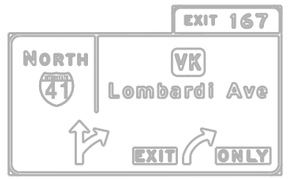
USH 41/STH 32 SB

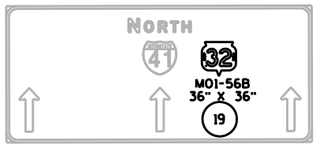
USH 41/STH 32 NB

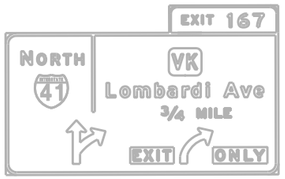
CTH VK
LOMBARDI AVE

CTH VK
LOMBARDI AVE









LEGEND

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

SEE SHEET 4 OF 5

MATCH LINE

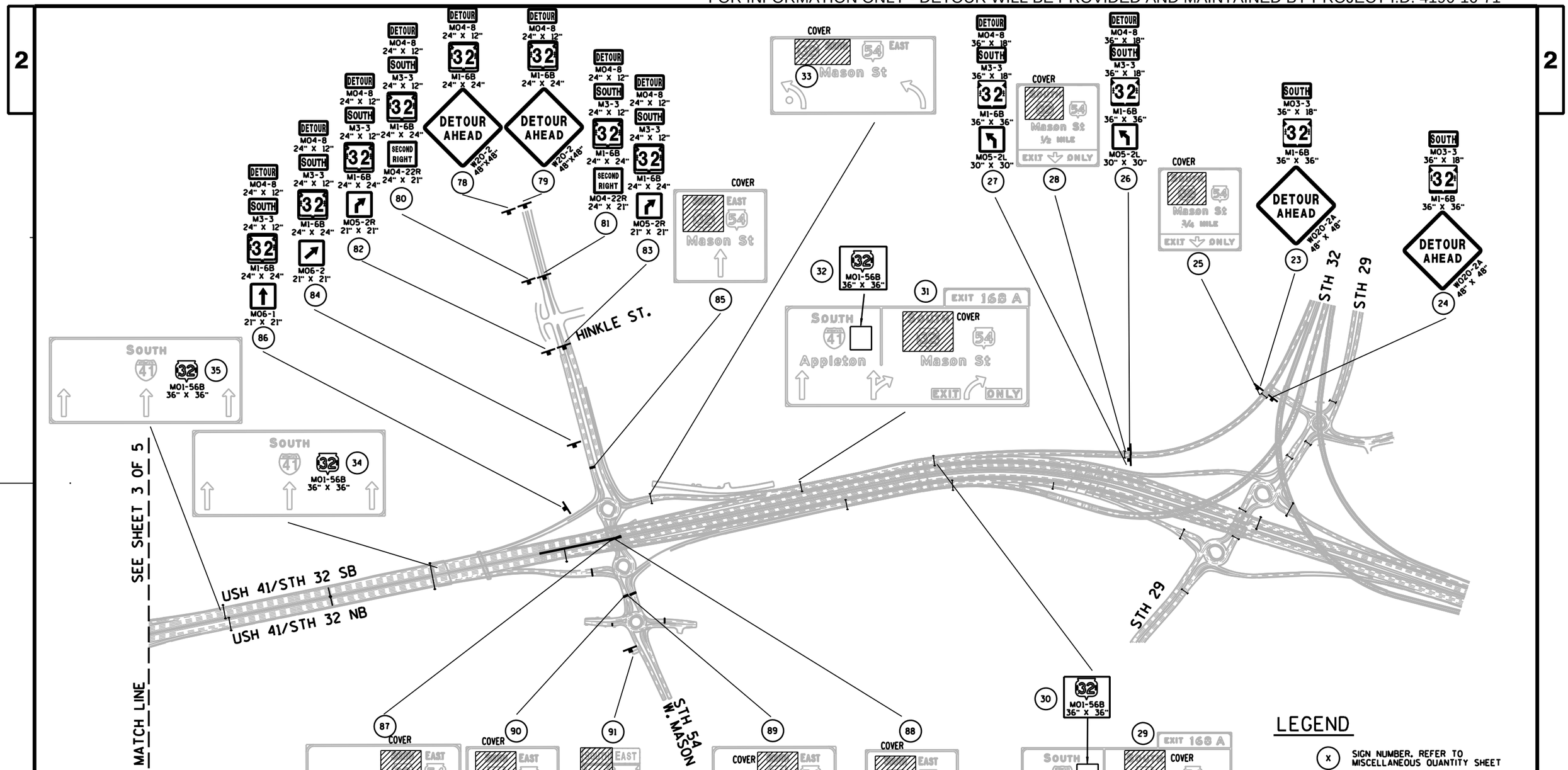
SHEET 3 OF 5

PLAN SHEET PRODUCED BY WisDOT-NE REGION

PROJECT NO: 4190-16-71/72	HWY: STH 32	COUNTY: BROWN	DETOUR SIGNING DETAIL	SHEET	E

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

2



LEGEND

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

SHEET 4 OF 5

PLAN SHEET PRODUCED BY WisDOT-NE REGION

PROJECT NO: 4190-16-71/72	HWY: STH 32	COUNTY: BROWN	DETOUR SIGNING DETAIL	SHEET E

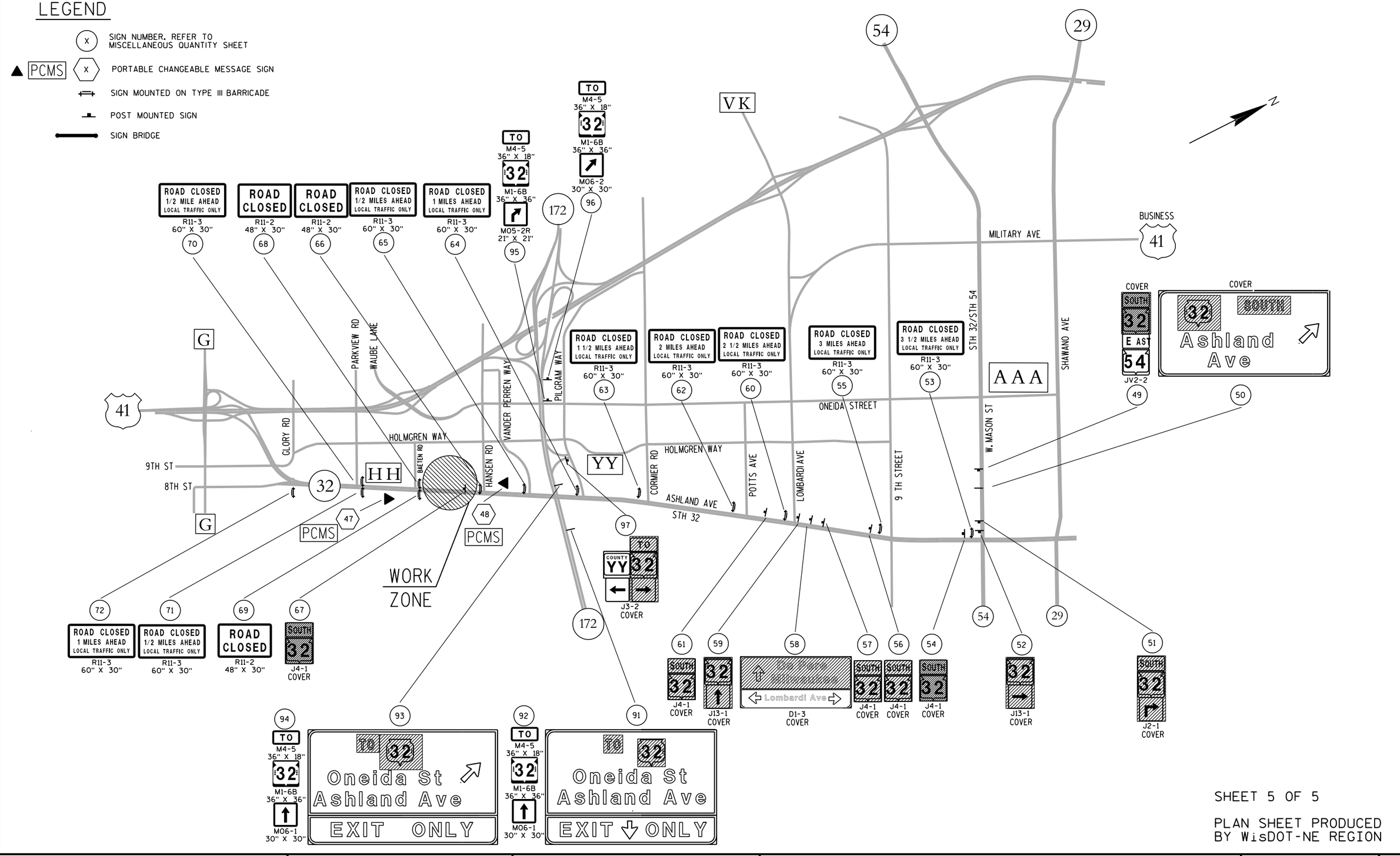
FILE NAME : $$....designfile....$$ PLOT DATE : $$...plottingdate...$$ PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

FOR INFORMATION ONLY - DETOUR WILL BE PROVIDED AND MAINTAINED BY PROJECT I.D. 4190-16-71

2

LEGEND

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



SHEET 5 OF 5

PLAN SHEET PRODUCED BY WisDOT-NE REGION

PROJECT NO: 4190-16-71/72	HWY: STH 32	COUNTY: BROWN	DETOUR SIGNING DETAIL	SHEET 61	E

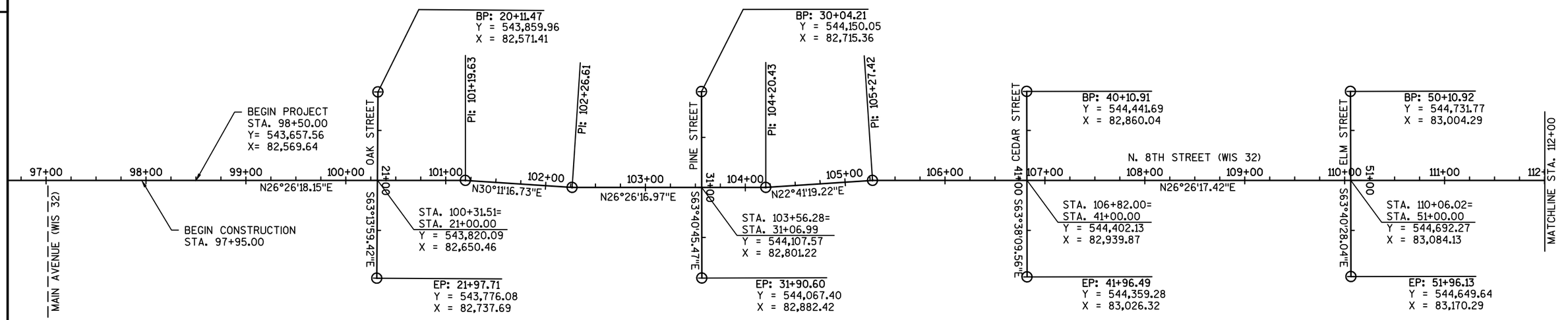
FILE NAME : N:\spo\traffic\A Work Zone\Detours\Brown County\STH 32\Ashland - 8th - Lombardi ave\027005_dt.dgn PLOT DATE : 31-MAR-2016 16:50 PLOT BY : dotjlf PLOT NAME : PLOT SCALE : 3000:1

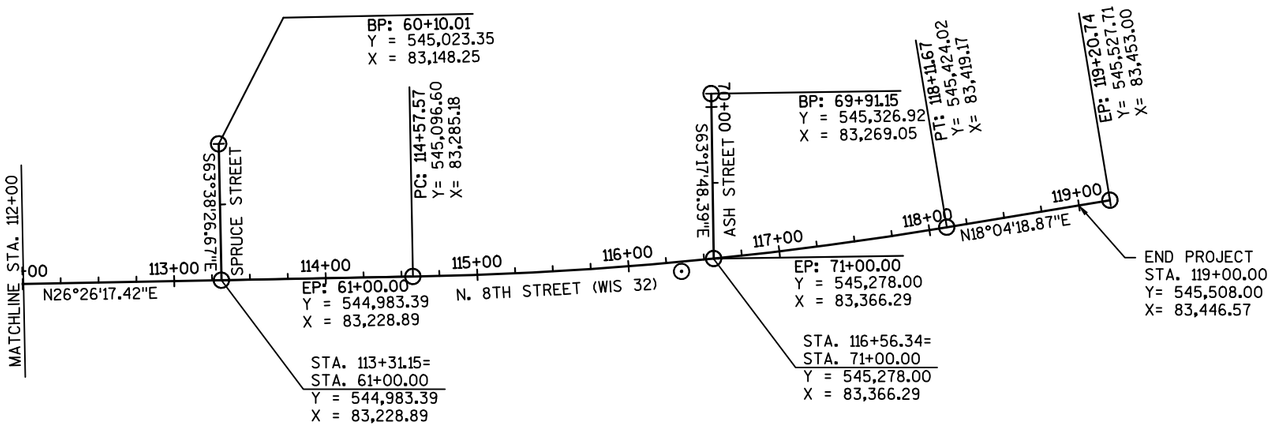
WISDOT/CADDS SHEET 42

2

N. 8TH STREET (WIS 32) P.I. DATA

P.I. = STA. 101+19.63	P.I. = STA. 102+26.61	P.I. = STA. 104+20.43	P.I. = STA. 105+27.42
Y = 543,898.99	Y = 543,991.46	Y = 544,165.01	Y = 544,263.72
X = 82,689.69	X = 82,743.48	X = 82,829.78	X = 82,871.04
Δ = 03°44'58.58"	Δ = 03°44'59.76"	Δ = 03°44'57.75"	Δ = 03°44'58.20"





N. 8TH STREET (WIS 32) P.I. DATA

P.I. = STA. 116+34.94
Y = 545,255.41
X = 83,364.15
Δ = 08°21'58.68"
R = 2,425.00'
L = 354.10'
T = 177.36'
P.C. = STA. 114+57.57
P.T. = STA. 118+11.67

PROJECT NO: 4085-42-71	HWY: WIS 32 (8TH STREET)	COUNTY: BROWN	ALIGNMENT OVERVIEW	SHEET 62	E

FILE NAME : P:\90S\93\00093265\CADD\SHEETSPLAN\ALIGNMENT DIAGRAM.DWG
LAYOUT NAME - ALIGNMENT DIAGRAM - 027201-AD
PLOT DATE : 7/12/2016 12:51 PM PLOT BY : JASON DOLENS PLOT NAME : PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 44

2

CP T106
AP TARGET
Y = 543,673.30
X = 82,205.70

40.50'
35.03'
41.42'

TOP NUT
FIRE HYDRANT

CENTER OF CURB STOP

CENTER OF SANITARY SEWER MANHOLE

MAIN AVENUE

TRAFFIC SIGNAL

ELECTRIC SERVICE PEDESTAL

96+00
97+00
98+00

CENTER OF SANITARY SEWER MANHOLE

39.21'
29.02'
13.02'

CENTER OF WATER VALVE

N. 8TH STREET (WIS 32)

CP #1
CHISELED CROSS
Y = 543,536.94
X = 82,545.49

TRAFFIC SIGNAL POLE

PINE STREET

OAK STREET

PI: 101+19.63

CENTER OF CURB STOP

33.27'

UTILITY POLE

6.92'

PI: 102+26.61

CP #2
SPIKE
Y = 543,980.90
X = 82,708.21

14.46'

CENTER OF STORM SEWER MANHOLE

101+00
102+00
103+00

ABANDONED 8" C.I.

N. 8TH STREET (WIS 32)

WOOD BARRIER

WOOD FENCE

LANDSCAPING

BUSHES

CONC. STEP

PI: 104+20.43

PI: 105+27.42

104+00
105+00
106+00

CP #3
SPIKE
Y = 544,246.11
X = 82,896.59

6.39'

UTILITY POLE

GUY WIRE

78.56'

4.68'

CENTER OF CURB STOP

WOOD BARRIER/ LANDSCAPING

LANDSCAPING

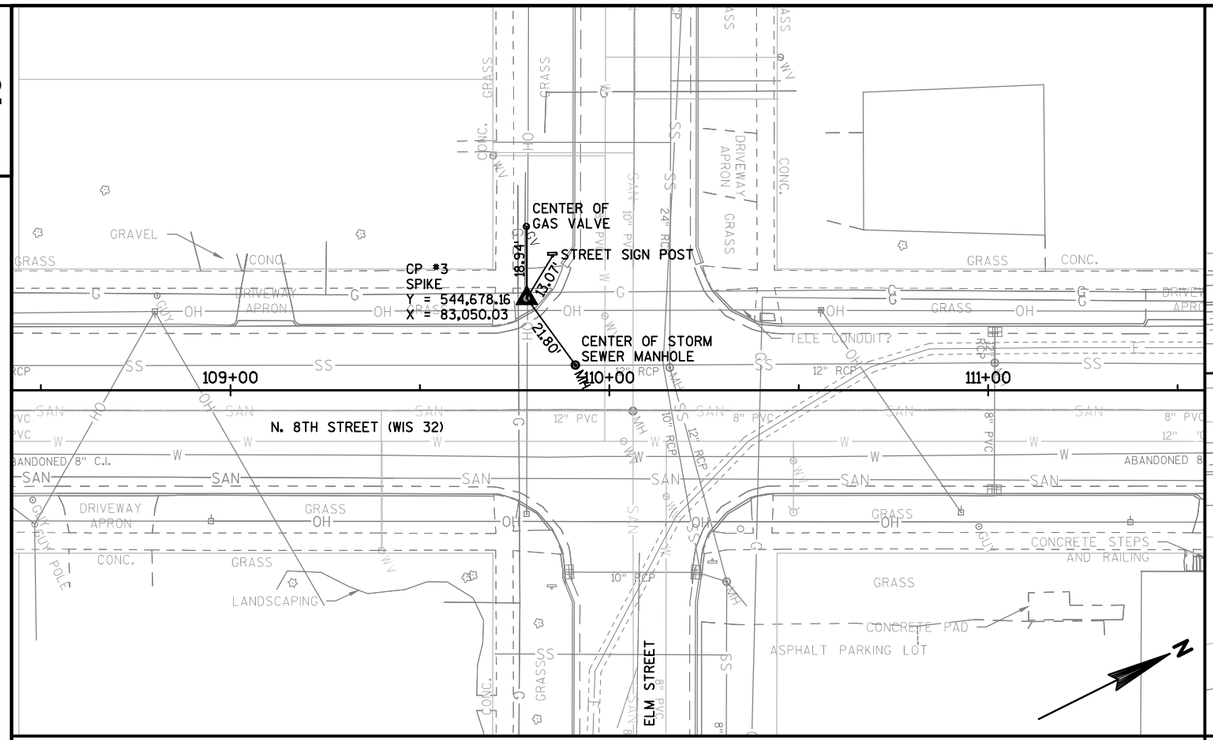
WOOD BARRIER/ LANDSCAPING

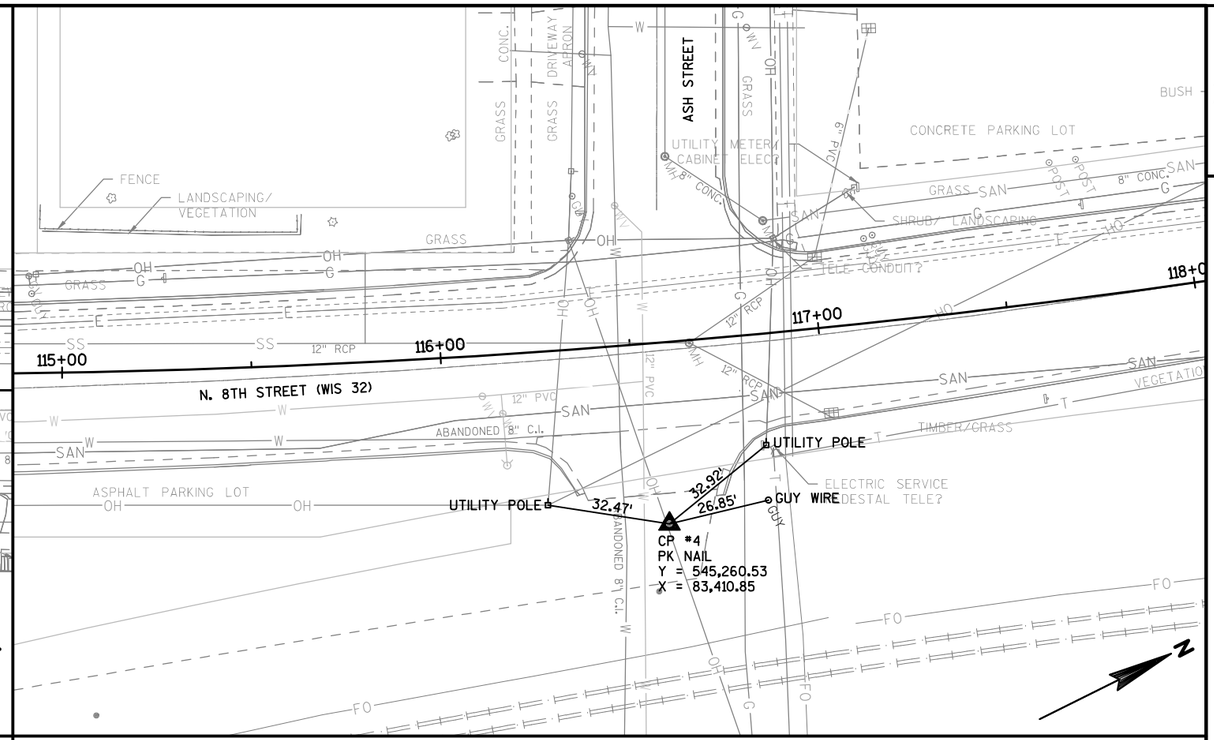
PROJECT NO: 4085-42-71	HWY: WIS 32 (8TH STREET)	COUNTY: BROWN	CONTROL POINT TIES	SHEET 63	E

FILE NAME : P:\90S\93\00093265\CADD\SHEETSPLAN\CONTROL POINT TIES.DWG
8TH STREET - CONTROL POINT TIES - 027301-CP

PLOT DATE : 7/12/2016 12:53 PM PLOT BY : JASON DOLENS PLOT NAME : PLOT SCALE : 77/256" = 1'-0"_XREF_XREF_XREF_XREF

WISDOT/CADDS SHEET 42





PROJECT NO: 4085-42-71	HWY: WIS 32 (8TH STREET)	COUNTY: BROWN	CONTROL POINT TIES	SHEET 64	E

FILE NAME : P:\90S\93\00093265\CADD\SHEETSPLAN\CONTROL POINT TIES.DWG
8TH STREET - CONTROL POINT TIES - 027302-CP

PLOT DATE : 7/12/2016 12:53 PM PLOT BY : JASON DOLENS PLOT NAME : PLOT SCALE : *********

WISDOT/CADDS SHEET 42

4085-42-71

Line	Item	Item Description	Unit	Total	Qty
0010	201.0120	Clearing	ID	116.000	116.000
0020	201.0220	Grubbing	ID	128.000	128.000
0030	204.0100	Removing Pavement	SY	8,617.000	8,617.000
0040	204.0110	Removing Asphaltic Surface	SY	542.000	542.000
0050	204.0150	Removing Curb & Gutter	LF	828.000	828.000
0060	204.0155	Removing Concrete Sidewalk	SY	1,616.000	1,616.000
0070	204.0210	Removing Manholes	EACH	12.000	12.000
0080	204.0220	Removing Inlets	EACH	31.000	31.000
0090	204.0245	Removing Storm Sewer (size) 01. 12-Inch or Less	LF	3,024.000	3,024.000
0100	205.0100	Excavation Common	CY	13,399.000	13,399.000
0110	213.0100	Finishing Roadway (project) 01. 4085-42-71	EACH	1.000	1.000
0120	305.0110	Base Aggregate Dense 3/4-Inch	TON	495.000	495.000
0130	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	4,735.000	4,735.000
0140	310.0110	Base Aggregate Open-Graded	TON	3,027.000	3,027.000
0150	311.0110	Breaker Run	TON	8,320.000	8,320.000
0160	415.0090	Concrete Pavement 9-Inch	SY	10,331.000	10,331.000
0170	415.0210	Concrete Pavement Gaps	EACH	6.000	6.000
0180	416.0160	Concrete Driveway 6-Inch	SY	548.000	548.000
0190	416.0180	Concrete Driveway 8-Inch	SY	327.000	327.000
0200	416.0610	Drilled Tie Bars	EACH	3.000	3.000
0210	416.0620	Drilled Dowel Bars	EACH	74.000	74.000
0220	455.0605	Tack Coat	GAL	29.000	29.000
0230	460.2000	Incentive Density HMA Pavement	DOL	120.000	120.000
0240	460.5223	HMA Pavement 3 LT 58-28 S	TON	73.000	73.000
0250	460.5224	HMA Pavement 4 LT 58-28 S	TON	57.000	57.000
0260	465.0105	Asphaltic Surface	TON	49.000	49.000
0270	601.0150	Concrete Curb Integral Type D	LF	3,121.000	3,121.000
0280	601.0600	Concrete Curb Pedestrian	LF	86.000	86.000
0290	602.0405	Concrete Sidewalk 4-Inch	SF	12,810.000	12,810.000
0300	602.0415	Concrete Sidewalk 6-Inch	SF	5,545.000	5,545.000
0310	602.0515	Curb Ramp Detectable Warning Field Natural Patina	SF	320.000	320.000
0320	602.1500	Concrete Steps	SF	25.000	25.000
0330	608.0412	Storm Sewer Pipe Reinforced Concrete Class IV 12-Inch	LF	626.000	626.000
0340	608.0415	Storm Sewer Pipe Reinforced Concrete Class IV 15-Inch	LF	260.000	260.000
0350	608.0424	Storm Sewer Pipe Reinforced Concrete Class IV 24-Inch	LF	1,056.000	1,056.000
0360	608.0430	Storm Sewer Pipe Reinforced Concrete Class IV 30-Inch	LF	512.000	512.000
0370	611.2004	Manholes 4-FT Diameter	EACH	7.000	7.000

4085-42-71

Line	Item	Item Description	Unit	Total	Qty
0380	611.2005	Manholes 5-FT Diameter	EACH	6.000	6.000
0390	611.3004	Inlets 4-FT Diameter	EACH	5.000	5.000
0400	611.3230	Inlets 2x3-FT	EACH	30.000	30.000
0410	611.3901	Inlets Median 1 Grate	EACH	1.000	1.000
0420	611.8110	Adjusting Manhole Covers	EACH	14.000	14.000
0430	611.8115	Adjusting Inlet Covers	EACH	2.000	2.000
0440	612.0106	Pipe Underdrain 6-Inch	LF	3,995.000	3,995.000
0450	616.0700.S	Fence Safety	LF	200.000	200.000
0460	619.1000	Mobilization	EACH	1.000	1.000
0470	624.0100	Water	MGAL	52.000	52.000
0480	625.0100	Topsoil	SY	5,195.000	5,195.000
0490	627.0200	Mulching	SY	4,598.000	4,598.000
0500	628.1504	Silt Fence	LF	150.000	150.000
0510	628.1520	Silt Fence Maintenance	LF	300.000	300.000
0520	628.1905	Mobilizations Erosion Control	EACH	10.000	10.000
0530	628.1910	Mobilizations Emergency Erosion Control	EACH	5.000	5.000
0540	628.2006	Erosion Mat Urban Class I Type A	SY	350.000	350.000
0550	628.7005	Inlet Protection Type A	EACH	1.000	1.000
0560	628.7015	Inlet Protection Type C	EACH	37.000	37.000
0570	628.7020	Inlet Protection Type D	EACH	35.000	35.000
0580	628.7560	Tracking Pads	EACH	2.000	2.000
0590	629.0210	Fertilizer Type B	CWT	3.270	3.270
0600	630.0140	Seeding Mixture No. 40	LB	92.000	92.000
0610	632.0101	Trees (species) (size) (root) 01. Crabapple, 'Purple Prince', B&B, 2-Inch Cal.	EACH	8.000	8.000
0620	632.0101	Trees (species) (size) (root) 02. Crabapple, 'Spring Snow', B&B, 2-Inch Cal.	EACH	11.000	11.000
0630	632.0101	Trees (species) (size) (root) 03. Japanese Tree Lilac, 'Ivory Silk', B&B, 2-Inch Cal.	EACH	7.000	7.000
0640	632.0101	Trees (species) (size) (root) 04. Pear, Callery 'Chanticleer', B&B, 2-Inch Cal.	EACH	9.000	9.000
0650	632.9101	Landscape Planting Surveillance and Care Cycles	EACH	10.000	10.000
0660	634.0614	Posts Wood 4x6-Inch X 14-FT	EACH	30.000	30.000
0670	634.0616	Posts Wood 4x6-Inch X 16-FT	EACH	18.000	18.000
0680	637.2210	Signs Type II Reflective H	SF	309.300	309.300
0690	637.2230	Signs Type II Reflective F	SF	14.750	14.750
0700	638.2602	Removing Signs Type II	EACH	25.000	25.000
0710	638.3000	Removing Small Sign Supports	EACH	21.000	21.000
0720	642.5401	Field Office Type D	EACH	1.000	1.000
0730	643.0100	Traffic Control (project) 01. 4085-42-71	EACH	1.000	1.000
0740	643.0410	Traffic Control Barricades Type II	DAY	3,473.000	3,473.000

4085-42-71

Line	Item	Item Description	Unit	Total	Qty
0750	643.0420	Traffic Control Barricades Type III	DAY	4,530.000	4,530.000
0760	643.0705	Traffic Control Warning Lights Type A	DAY	11,627.000	11,627.000
0770	643.0900	Traffic Control Signs	DAY	10,872.000	10,872.000
0780	643.1000	Traffic Control Signs Fixed Message	SF	17.500	17.500
0790	644.1410.S	Temporary Pedestrian Surface Asphalt	SF	2,000.000	2,000.000
0800	644.1601.S	Temporary Curb Ramp	EACH	40.000	40.000
0810	644.1616.S	Temporary Pedestrian Safety Fence	LF	1,200.000	1,200.000
0820	645.0111	Geotextile Type DF Schedule A	SY	4,365.000	4,365.000
0830	646.0106	Pavement Marking Epoxy 4-Inch	LF	8,545.000	8,545.000
0840	646.0126	Pavement Marking Epoxy 8-Inch	LF	294.000	294.000
0850	646.0600	Removing Pavement Markings	LF	296.000	296.000
0860	647.0166	Pavement Marking Arrows Epoxy Type 2	EACH	4.000	4.000
0870	647.0206	Pavement Marking Arrows Bike Lane Epoxy	EACH	14.000	14.000
0880	647.0306	Pavement Marking Symbols Bike Lane Epoxy	EACH	14.000	14.000
0890	647.0356	Pavement Marking Words Epoxy	EACH	2.000	2.000
0900	647.0566	Pavement Marking Stop Line Epoxy 18-Inch	LF	186.000	186.000
0910	647.0726	Pavement Marking Diagonal Epoxy 12-Inch	LF	170.000	170.000
0920	647.0766	Pavement Marking Crosswalk Epoxy 6-Inch	LF	675.000	675.000
0930	647.0786	Pavement Marking Crosswalk Epoxy 18-Inch	LF	726.000	726.000
0940	649.0506	Temporary Pavement Marking Removable Mask-Out Tape 6-Inch	LF	240.000	240.000
0950	650.4000	Construction Staking Storm Sewer	EACH	49.000	49.000
0960	650.4500	Construction Staking Subgrade	LF	2,050.000	2,050.000
0970	650.5500	Construction Staking Curb Gutter and Curb & Gutter	LF	1,284.000	1,284.000
0980	650.7000	Construction Staking Concrete Pavement	LF	2,050.000	2,050.000
0990	650.8500	Construction Staking Electrical Installations (project) 01. 4085-42-71	LS	1.000	1.000
1000	650.9910	Construction Staking Supplemental Control (project) 01. 4085-42-71	LS	1.000	1.000
1010	650.9920	Construction Staking Slope Stakes	LF	2,050.000	2,050.000
1020	652.0225	Conduit Rigid Nonmetallic Schedule 40 2-Inch	LF	2,128.000	2,128.000
1030	652.0235	Conduit Rigid Nonmetallic Schedule 40 3-Inch	LF	10.000	10.000
1040	652.0325	Conduit Rigid Nonmetallic Schedule 80 2-Inch	LF	650.000	650.000
1050	652.0605	Conduit Special 2-Inch	LF	40.000	40.000
1060	653.0140	Pull Boxes Steel 24x42-Inch	EACH	8.000	8.000
1070	654.0105	Concrete Bases Type 5	EACH	17.000	17.000
1080	654.0224	Concrete Control Cabinet Bases Type L24	EACH	1.000	1.000
1090	655.0610	Electrical Wire Lighting 12 AWG	LF	4,821.000	4,821.000
1100	655.0615	Electrical Wire Lighting 10 AWG	LF	2,880.000	2,880.000
1110	655.0620	Electrical Wire Lighting 8 AWG	LF	1,530.000	1,530.000

4085-42-71

Line	Item	Item Description	Unit	Total	Qty
1120	656.0200	Electrical Service Meter Breaker Pedestal (location) 01. Station 108+44.0, 36.5' RT	LS	1.000	1.000
1130	657.0255	Transformer Bases Breakaway 11 1/2-Inch Bolt Circle	EACH	17.000	17.000
1140	657.0615	Luminaire Arms Single Member 4 1/2-Inch Clamp 8-FT	EACH	4.000	4.000
1150	657.0710	Luminaire Arms Truss Type 4 1/2-Inch Clamp 12-FT	EACH	13.000	13.000
1160	659.2124	Lighting Control Cabinets 120/240 24-Inch	EACH	1.000	1.000
1170	690.0150	Sawing Asphalt	LF	530.000	530.000
1180	690.0250	Sawing Concrete	LF	694.000	694.000
1190	715.0415	Incentive Strength Concrete Pavement	DOL	3,099.000	3,099.000
1200	999.1500.S	Crack and Damage Survey	LS	1.000	1.000
1210	ASP.1T0A	On-the-Job Training Apprentice at $5.00/HR	HRS	300.000	300.000
1220	ASP.1T0G	On-the-Job Training Graduate at $5.00/HR	HRS	600.000	600.000
1230	SPV.0060	Special 01. Adjust Water Valve Box	EACH	19.000	19.000
1240	SPV.0060	Special 02. Reconnect Storm Sewer Laterals	EACH	21.000	21.000
1250	SPV.0060	Special 03. Concrete Pipe Support	EACH	4.000	4.000
1260	SPV.0060	Special 04. Manhole Cover Type R-1500	EACH	13.000	13.000
1270	SPV.0060	Special 05. Inlet Cover Type R-3067-L	EACH	34.000	34.000
1280	SPV.0060	Special 06. Inlet Cover Type R-4882	EACH	1.000	1.000
1290	SPV.0060	Special 07. Inlet Cover Type R-3290-A	EACH	1.000	1.000
1300	SPV.0060	Special 08. Rubber Adjusting Rings	EACH	57.000	57.000
1310	SPV.0060	Special 09. Install City Supplied Street Name Sign	EACH	12.000	12.000
1320	SPV.0060	Special 10. Poles Type 5 Modified 16-Foot Aluminum	EACH	17.000	17.000
1330	SPV.0060	Special 11. Luminairies Utility LED A Modified	EACH	17.000	17.000
1340	SPV.0060	Special 12. Lighting Assemblies Black Finish	EACH	17.000	17.000
1350	SPV.0060	Special 13. Utility Line Opening (ULO)	EACH	2.000	2.000
1360	SPV.0060	Special 14. Mini Storm Sewer Cleanouts	EACH	3.000	3.000
1370	SPV.0075	Special 01. Street Sweeping	HRS	60.000	60.000
1380	SPV.0090	Special 01. Concrete Curb & Gutter 24-Inch Type A Special	LF	845.000	845.000
1390	SPV.0090	Special 02. Concrete Curb & Gutter 24-Inch Type D Special	LF	353.000	353.000
1400	SPV.0090	Special 03. 8-Inch Ductile Iron Storm Sewer	LF	28.000	28.000
1410	SPV.0090	Special 04. Mini Storm Sewer 6-Inch	LF	280.000	280.000
1420	SPV.0090	Special 05. Mini Storm Sewer Lateral 6-Inch	LF	15.000	15.000
1430	SPV.0105	Special 01. Concrete Pavement Joint Layout	LS	1.000	1.000
1440	SPV.0120	Special 01. Water for Seeded Areas	MGAL	294.000	294.000
1450	SPV.0165	Special 01. Concrete Sidewalk 8-Inch	SF	590.000	590.000
1460	SPV.0180	Special 01. Concrete Joint Sealing	SY	10,331.000	10,331.000
1470	SPV.0180	Special 02. Shredded Hardwood Bark Mulch	SY	30.000	30.000

CLEARING & GRUBBING

CATEGORY	STATION	LOCATION	(201.0120) CLEARING ID	(201.0220) GRUBBING ID
0010	99+19	RT	6	6
	99+45	RT	12	12
	100+87	RT	20	20
	101+37	RT	12	12
	101+47	LT	16	16
	101+66	LT	12	12
	103+13	RT	14	14
	104+19	LT	12	12
	106+36	LT	12	12
	106+42	RT	-	12
	PROJECT TOTALS		**116**	**128**

REMOVING STORM SEWER STRUCTURES

CATEGORY	STATION	LOCATION	(204.0210) REMOVING MANHOLES EACH	(204.0220) REMOVING INLETS EACH
0010	98+60	6' LT	1	-
	98+60	17' RT	1	-
	99+88	26' RT	-	1
	99+92	16' LT	-	1
	100+14	49' RT	-	1
	100+14	40' LT	-	1
	100+38	6' LT	1	-
	100+48	48' RT	-	1
	100+48	38' LT	-	1
	100+90	6' LT	1	-
	101+96	11' LT	1	-
	102+00	21' LT	-	1
	102+03	21' RT	-	1
	103+38	41' RT	-	1
	103+39	45' LT	-	1
	103+62	13' LT	1	-
	103+73	41' RT	-	1
	103+73	45' LT	-	1
	103+96	23' LT	-	1
	103+97	19' RT	-	1
	106+40	26' RT	-	1
	106+42	15' LT	-	1
	106+65	37' LT	-	1
	106+65	48' RT	-	1
	106+92	6' LT	1	-
	106+99	48' RT	-	1
	106+99	37' LT	-	1
	107+22	26' RT	-	1
	107+22	16' LT	-	1
	109+89	48' RT	-	1
	109+91	7' LT	1	-
	110+23	48' RT	-	1
	111+02	26' RT	-	1
	111+02	16' LT	-	1
	111+02	7' LT	1	-
	113+38	6' LT	1	-
	114+52	25' RT	-	1
	114+62	16' LT	-	1
	114+76	8' LT	1	-
	116+66	1' RT	1	-
	117+01	22' RT	-	1
	117+01	19' LT	-	1
	118+39	19' RT	-	1
	PROJECT TOTALS		**12**	**31**

REMOVING STORM SEWER

CATEGORY	STATION	TO STATION	LOCATION	(204.0245.01) 12-INCH OR LESS LF
0010	98+60	98+60	LT & RT	24
	98+60	98+60	RT	11
	98+60	100+38	LT	178
	99+88	99+92	RT & LT	42
	99+92	100+38	LT	47
	100+14	100+48	LT	35
	100+14	100+48	RT	34
	100+38	100+38	LT	50
	100+38	100+48	LT & RT	55
	100+38	100+48	LT	35
	100+38	100+90	LT	52
	100+90	101+96	LT	108
	101+96	102+00	LT	11
	101+96	102+03	LT & RT	33
	101+96	103+62	LT	165
	103+39	103+73	LT	34
	103+38	103+73	RT	35
	103+62	103+73	LT & RT	56
	103+62	103+73	LT	34
	103+62	103+96	LT	36
	103+62	106+92	LT	331
	103+96	103+97	LT & RT	42
	106+40	106+42	RT & LT	42
	106+42	106+92	LT	51
	106+65	106+99	LT	34
	106+65	106+99	RT	34
	106+92	106+99	LT	32
	106+92	107+22	LT	30
	106+92	106+99	LT & RT	56
	106+92	109+91	LT	299
	107+22	107+22	LT & RT	42
	109+89	110+23	RT	34
	109+91	110+16	LT	25
	110+16	110+24	LT & RT	56
	110+16	111+02	LT	86
	110+23	110+31	RT	8
	111+02	111+02	LT	9
	111+02	111+02	LT & RT	33
	111+02	113+38	LT	236
	113+38	114+76	LT	139
	114+52	114+76	LT & RT	41
	114+62	114+76	LT	17
	114+76	116+66	LT & RT	190
	116+66	117+01	RT & LT	40
	116+66	117+01	RT	42
	PROJECT TOTAL			**3,024**

STREET SWEEPING

CATEGORY	DESCRIPTION	(SPV.0075.01) HRS
0010	PROJECT 4085-42-71	60
	PROJECT TOTAL	**60**

CRACK AND DAMAGE SURVEY

CATEGORY	DESCRIPTION	(999.1500.S) LS
0010	PROJECT 4085-42-71	1
	PROJECT TOTAL	**1**

HMA PAVEMENT

CATEGORY	STATION	TO STATION	LOCATION	INTERSECTION	* (305.0120) BASE AGGREGATE DENSE 1 1/4-INCH TON	* (204.0110) REMOVING ASPHALTIC SURFACE SY	(455.0605) TACK COAT GAL	(460.5223) 3 LT 58-28 S TON	(460.5224) 4 LT 58-28 S TON	(465.0105) ASPHALTIC SURFACE TON	* (690.0150) SAWING ASPHALT LF
0010	100+00	101+00	LT & RT	OAK	123	-	6	15	11	-	58
	103+00	104+00	LT & RT	PINE	122	-	6	14	11	-	58
	106+00	108+00	LT & RT	CEDAR	102	-	5	12	10	-	66
	108+00	111+00	LT & RT	ELM	129	-	6	15	12	-	58
	113+00	114+00	LT	SPRUCE	72	-	3	8	6	-	28
	114+59	116+69	RT	PARKING LOT	45	473	-	-	-	49	147
	116+00	117+00	LT	ASH	70	-	3	9	7	-	33
		PROJECT TOTALS			**662**	**473**	**29**	**73**	**57**	**49**	**448**

*ADDITIONAL QUANTITIES FOUND ELSEWHERE

WATER

CATEGORY	DESCRIPTION	(624.0100) MGAL
0010	DUST CONTROL	15
	COMPACTION	37
	PROJECT TOTALS	**52**

3

Earthwork Summary

Division	From/To Station	Location	Common Excavation (1) (item # 205.0100) Cut (2)	EBS Excavation (3)	Salvaged/Unusable Pavement Material (4)	Available Material (5)	Unexpanded Fill	Expanded Fill (6) Factor 1.20	Mass Ordinate +/- (7)	Waste	Borrow (item #208.0100)	Comment:
Project ID 4085-42-71												
	98+50 - 119+00	WIS 32 (8th Street)	11,112	1,000	3,796	7,315	105	126	7,189	7,189	0	
		Oak Street	260	-	96	164	0	0	164	164	0	
		Pine Street	263	-	107	156	0	0	156	156	0	
		Cedar Street	256	-	92	164	0	0	164	164	0	
		Elm Street	242	-	90	152	0	0	152	152	0	
		Spruce Street	113	-	40	73	0	0	73	73	0	
		Ash Street	153	-	59	94	0	0	94	94	0	
Project ID 4085-42-71 Total			12,399	1,000	4,280	8,118	105	126	7,992	7,992	0	
			13,399									

1) Common Excavation is the sum of the Cut and EBS Excavation columns. Item number 205.0100
2) Salvaged/Unsuable Pavement Material is included in Cut.
3) EBS Excavation to be backfilled with Breaker Run material.
4) Salvaged/Unusable Pavement Material
5) Available Material = Cut - Salvaged/Unusuable Pavement Material
6) Expanded Fill. Factor = 1.20
7) The Mass Ordinate + or - Qty calculated for the Division. Plus quantity indicates an excess of material within the Division. Minus indicates a shortage of material within the Division.

3

3

CONCRETE PAVEMENT

CATEGORY	STATION	TO STATION	LOCATION	* (204.0100) REMOVING PAVEMENT SY	(310.0110) BASE AGGREGATE OPEN-GRADED TON	* (305.0120) BASE AGGREGATE DENSE 1 1/4-INCH TON	(311.0110) BREAKER RUN TON	(415.0090) CONCRETE PAVEMENT 9-INCH SY	(415.0210) CONCRETE PAVEMENT GAPS EACH	(416.0610) DRILLED TIE BARS EACH	(416.0620) DRILLED DOWEL BARS EACH	(612.0106) PIPE UNDERDRAIN 6-INCH LF	(645.0111) GEOTEXTILE TYPE DF SCHEDULE A SY	(650.4500) CONSTRUCTION STAKING SUBGRADE LF	(650.7000) CONSTRUCTION STAKING CONCRETE PAVEMENT LF	(SPV.0105.01) CONCRETE PAVEMENT JOINT LAYOUT LS	* (690.0150) SAWING ASPHALT LF	* (690.0250) SAWING CONCRETE LF
0010	98+50	99+95	LT & RT	555	217	268	468	756	-	3	41	281	307	145	145	-	-	51
	99+95	100+68	LT & RT	336	144	190	332	536	2	-	-	129	141	73	73	-	-	-
	100+68	103+20	LT & RT	925	346	416	728	1,136	-	-	-	504	551	252	252	-	-	-
	103+20	103+92	LT & RT	422	127	163	285	454	2	-	-	133	145	72	72	-	-	-
	103+92	106+44	LT & RT	905	354	429	751	1,204	-	-	-	504	551	252	252	-	-	-
	106+44	107+20	LT & RT	429	152	201	352	571	-	-	-	128	140	76	76	-	-	-
	107+20	109+70	LT & RT	966	368	449	786	1,265	-	-	-	500	546	250	250	-	-	-
	109+70	110+43	LT & RT	355	130	171	299	480	2	-	-	121	132	73	73	-	-	-
	110+43	112+97	LT & RT	969	380	466	816	1,244	-	-	-	507	554	254	254	-	-	-
	112+97	113+67	LT & RT	351	116	148	260	409	-	-	-	124	135	70	70	-	-	-
	113+67	116+21	LT & RT	1,143	326	385	673	1,058	-	-	-	510	557	254	254	-	-	-
	116+21	116+98	LT & RT	467	119	148	259	413	-	-	-	150	164	77	77	-	-	-
	116+98	119+00	LT & RT	-	249	291	509	805	-	-	33	404	441	202	202	-	32	-
	UNDISTRIBUTED (EBS)			-	-	-	1,800	-	-	-	-	-	-	-	-	-	-	-
	PROJECT 4085-42-71			-	-	-	-	-	-	-	-	-	-	-	-	1	-	-
	PROJECT TOTALS			**7,823**	**3,027**	**3,726**	**8,320**	**10,331**	**6**	**3**	**74**	**3,995**	**4,365**	**2,050**	**2,050**	**1**	**32**	**51**

*ADDITIONAL QUANTITIES FOUND ELSEWHERE

NOTE: REMOVING PAVEMENT QUANTITY INCLUDES REMOVING CONCRETE CURB & GUTTER WHERE IT IS ADJACENT TO CONCRETE PAVEMENT.

DRIVEWAYS

CATEGORY	STATION	LOCATION	* (204.0100) REMOVING PAVEMENT (APRON) SY	* (204.0100) REMOVING PAVEMENT (BEHIND SIDEWALK) SY	* (204.0110) REMOVING ASPHALTIC SURFACE SY	* (204.0155) REMOVING CONCRETE SIDEWALK SY	* (305.0120) BASE AGGREGATE DENSE 1 1/4-INCH TON	* (602.0415) CONCRETE SIDEWALK 6-INCH SF	(SPV.0165.01) CONCRETE SIDEWALK 8-INCH SF	(416.0160) CONCRETE DRIVEWAY 6-INCH (APRON) SY	(416.0160) CONCRETE DRIVEWAY 6-INCH (BEHIND SIDEWALK) SY	(416.0180) CONCRETE DRIVEWAY 8-INCH (APRON) SY	(416.0180) CONCRETE DRIVEWAY 8-INCH (BEHIND SIDEWALK) SY	* (690.0150) SAWING ASPHALT LF	* (690.0250) SAWING CONCRETE LF
0010	98+54	RT	10	-	-	4	3	45	-	9	-	-	-	8	10
	99+55	LT	29	-	-	-	5	0	-	23	-	-	-	-	-
	101+37	LT	12	11	-	5	6	50	-	13	10	-	-	-	11
	102+40	LT	21	20	-	10	15	100	-	37	19	-	-	-	20
	104+61	RT	18	29	-	8	13	80	-	24	25	-	-	-	30
	104+89	LT	22	25	-	10	16	125	-	32	25	-	-	-	30
	105+02	RT	23	34	-	11	15	110	-	25	30	-	-	-	32
	105+30	LT	16	13	-	7	8	70	-	15	13	-	-	-	14
	105+41	RT	25	26	-	12	13	120	-	23	23	-	-	-	24
	108+68	RT	26	22	-	11	13	110	-	25	21	-	-	-	22
	109+01	LT	15	11	-	6	13	125	-	23	21	-	-	-	12
	111+53	LT	24	34	-	15	15	120	-	23	33	-	-	-	55
	111+69	RT	31	-	-	-	-	-	-	-	-	-	-	-	-
	111+82	LT	16	11	-	9	7	70	-	14	11	-	-	-	18
	112+10	RT	31	19	-	-	26	-	120	-	-	28	20	-	23
	112+77	RT	115	-	-	-	11	-	100	-	-	13	11	-	72
	114+43	LT	22	14	-	11	10	100	-	19	15	-	-	-	26
	114+47	RT	71	-	-	-	57	-	185	-	-	87	-	7	32
	115+44	RT	-	-	-	-	60	-	185	-	-	93	-	35	-
	118+71	LT	-	-	69	-	42	-	-	-	-	75	-	-	36
	SUBTOTALS		**526**	**268**	**-**	**-**	**-**	**-**	**-**	**302**	**246**	**296**	**31**	**-**	**-**
	PROJECT TOTALS		**794**		**69**	**120**	**347**	**1,225**	**590**	**548**		**327**		**50**	**457**

*ADDITIONAL QUANTITIES FOUND ELSEWHERE

3

CONCRETE SIDEWALK

CATEGORY	STATION	TO STATION	LOCATION	(204.0155)* REMOVING CONCRETE SIDEWALK (MAINLINE) SY	(204.0155)* REMOVING CONCRETE SIDEWALK (PRIVATE WALKS) SY	(305.0110) BASE AGGREGATE DENSE 3/4-INCH TON	(602.0405) CONCRETE SIDEWALK 4-INCH (MAINLINE) SF	(602.0405) CONCRETE SIDEWALK 4-INCH (PRIVATE WALKS) SF	(602.0415)* CONCRETE SIDEWALK 6-INCH SF	(602.0515) CURB RAMP DETECTABLE WARNING FIELD NATURAL PATINA SF	(602.1500) CONCRETE STEPS SF	(690.0250)* SAWING CONCRETE (MAINLINE) LF	(690.0250)* SAWING CONCRETE (PRIVATE WALKS) LF
0010	98+60	100+14	RT	87	-	27	710	-	225	16	-	10	-
	99+67	100+14	LT	34	-	10	150	-	220	16	-	10	-
	100+49	103+40	RT	159	3	54	1,410	15	430	32	-	10	5
	100+49	103+40	LT	153	3	51	1,285	20	440	32	-	10	5
	103+73	106+63	RT	136	-	44	1,080	-	440	32	-	10	-
	103+73	106+63	LT	147	7	51	1,240	85	455	32	-	10	7
	107+01	109+90	RT	161	2	50	1,280	15	435	32	-	10	4
	107+01	109+90	LT	162	-	49	1,275	-	415	32	-	10	-
	110+24	113+65	RT	117	1	53	1,545	60	225	32	25	5	5
	110+24	113+15	LT	144	-	47	1,230	-	415	32	-	10	-
	113+48	116+40	LT	161	-	52	1,320	-	465	24	-	10	-
	116+79	116+99	LT	19	-	7	90	-	155	8	-	5	-
		SUBTOTALS		**1,480**	**16**	**-**	**12,615**	**195**	**-**	**-**	**-**	**110**	**26**
		PROJECT TOTALS		**1,496**		**495**	**12,810**		**4,320**	**320**	**25**	**136**	

*ADDITIONAL QUANTITIES FOUND ELSEWHERE

3

CONCRETE JOINT SEALING

CATEGORY	STATION	TO STATION	LOCATION	(SPV.0180.01) SY
0040	98+50	99+95	LT & RT	756
	99+95	100+68	LT & RT	536
	100+68	103+20	LT & RT	1,136
	103+20	103+92	LT & RT	454
	103+92	106+44	LT & RT	1,204
	106+44	107+20	LT & RT	571
	107+20	109+70	LT & RT	1,265
	109+70	110+43	LT & RT	480
	110+43	112+97	LT & RT	1,244
	112+97	113+67	LT & RT	409
	113+67	116+21	LT & RT	1,058
	116+21	116+98	LT & RT	413
	116+98	119+00	LT & RT	805
	PROJECT TOTAL			**10,331**

CONCRETE CURB & GUTTER

CATEGORY	STATION	TO STATION	LOCATION	(204.0150) REMOVING CURB & GUTTER LF	(601.0150) CONCRETE CURB & GUTTER INTEGRAL TYPE D LF	(SPV.0090.01) CONCRETE CURB & GUTTER 24-INCH TYPE A SPECIAL LF	(SPV.0090.02) CONCRETE CURB & GUTTER 24-INCH TYPE D SPECIAL LF	(601.0600) CONCRETE CURB PEDSTRIAN LF	(650.5500) CONSTRUCTION STAKING CURB GUTTER AND CURB & GUTTER LF	(690.0250)* SAWING CONCRETE LF
0010	98+50	100+17	RT	17	153	22	14	-	36	4.5
	98+60	100+17	LT	29	144	24	23	-	47	4.5
	100+46	103+42	RT	36	269	44	29	-	73	4
	100+46	103+42	LT	48	268	48	44	-	92	4
	103+71	106+65	RT	37	267	46	28	-	74	4
	103+71	106+65	LT	40	267	48	35	-	83	4
	106+98	109+92	RT	34	265	47	29	-	76	4
	106+98	109+92	LT	42	266	42	35	-	77	4
	110+21	119+00	RT	226	477	417	16	86	519	4.5
	110+21	113+18	LT	41	269	36	42	-	78	4
	113+45	116+45	LT	46	268	46	40	-	86	4
	116+78	119+00	LT	232	208	25	18	-	43	4.5
		PROJECT TOTALS		**828**	**3,121**	**845**	**353**	**86**	**1,284**	**50**

*ADDITIONAL QUANTITIES FOUND ELSEWHERE

NOTE: BASE AGGREGATE DENSE 1 1/4-INCH UNDER THE CURB & GUTTER IS INCLUDED WITH THE CONCRETE PAVEMENT BID ITEMS

STORM SEWER PIPE REINFORCED CONCRETE

CATEGORY	FROM STRUCTURE ID	TO STRUCTURE ID	(608.0412) CLASS IV 12-INCH LF	(608.0415) CLASS IV 15-INCH LF	(608.0424) CLASS IV 24-INCH LF	(608.0430) CLASS IV 30-INCH LF	(SPV.0090.03) 8-INCH DUCTILE IRON STORM SEWER LF
0010	1.0	16.0	-	33	-	-	-
	1.0	2.0	-	-	-	124	-
	2.0	2.1	11	-	-	-	-
	2.0	2.2	35	-	-	-	-
	2.0	E1.0	-	-	-	48	-
	E2.2	17.1	14	-	-	-	-
	E3.0	3.1	9	-	-	-	-
	E3.0	3.2	22	-	-	-	-
	E1.0	18.0	-	-	-	164	-
	18.0	18.1	29	-	-	-	-
	18.1	18.2	20	-	-	-	-
	18.0	4.0	-	-	-	60	-
	4.0	4.1	9	-	-	-	-
	4.0	4.2	26	-	-	-	-
	4.0	5.0	-	-	-	116	-
	5.0	5.1	-	38	-	-	-
	5.0	5.3	-	52	-	-	-
	5.1	5.2	31	-	-	-	-
	5.3	5.4	31	-	-	-	-
	5.0	6.0	-	-	29	-	-
	6.0	6.1	9	-	-	-	-
	6.0	6.2	26	-	-	-	-
	6.0	7.0	-	-	236	-	-
	7.0	7.1	11	-	-	-	-
	7.0	7.2	35	-	-	-	-
	7.0	8.0	-	-	55	-	-
	8.0	8.1	-	35	-	-	-
	8.0	8.3	-	57	-	-	-
	8.1	8.2	35	-	-	-	-
	8.3	8.4	35	-	-	-	-
	8.0	9.0	-	-	78	-	-
	9.0	9.1	11	-	-	-	-
	9.0	9.2	35	-	-	-	-
	E5.0	10.1	9	-	-	-	-
	10.1	10.2	31	-	-	-	-
	E4.0	11.0	-	-	84	-	-
	11.0	11.1	-	11	-	-	-
	11.0	11.3	-	34	-	-	-
	11.1	11.2	10	-	-	-	-
	11.3	11.4	10	-	-	-	-
	11.0	12.0	-	-	192	-	-
	12.0	13.0	-	-	177	-	-
	12.0	12.1	12	-	-	-	-
	12.1	12.2	86	-	-	-	-
	12.2	12.3	10	-	-	-	-
	13.0	14.0	-	-	205	-	-
	14.0	14.1	-	-	-	-	28
	14.0	14.2	24	-	-	-	-
PROJECT TOTALS			**626**	**260**	**1,056**	**512**	**28**

UTILITY LINE OPENING (ULO)

CATEGORY	STATION	LOCATION	(SPV.0060.13) EACH	UTILIITY
0010	112+92	12.0' LT	1	ATC DUCT
	116+96	15.5' LT	1	ATC DUCT
PROJECT TOTAL			**2**	

MINI STORM SEWER SYSTEM

CATEGORY	STATION	TO STATION	LOCATION	(SPV.0090.04) MINI STORM SEWER 6-INCH LF	(SPV.0090.05) MINI STORM SEWER LATERAL 6-INCH LF	(SPV.0060.14) MINI STORM SEWER CLEANOUTS EACH	DOWNSTREAM STATION	DOWNSTREAM INLET ID	DOWNSTREAM INVERT ELEV	UPSTREAM STATION	UPSTREAM INVERT ELEV
0040	111+10	112+42	LT	140	-	-	111+10	11.2	604.43	112+42	605.13
	112+20	112+20	LT	-	5	1	-	-	605.02	-	605.05
	112+42	112+42	LT	-	5	1	-		605.13	-	605.16
	113+88	115+20	LT	140	-	-	113+88	12.3	605.84	115+20	606.54
	115+20	115+20	LT	-	5	1	-		606.54	-	606.57
		PROJECT TOTALS		**280**	**15**	**3**					

RECONNECT STORM SEWER LATERALS

CATEGORY	STATION	LOCATION	(SPV.0060.02) EACH
0010	99+64	RT	1
	100+80	LT	1
	101+04	RT	1
	101+62	LT	1
	102+92	RT	1
	103+02	LT	1
	104+20	RT	1
	104+63	RT	1
	104+68	LT	1
	105+40	RT	1
	105+56	LT	1
	105+95	LT	1
	105+98	RT	1
	107+40	LT	1
	107+62	RT	1
	109+91	RT	1
	111+00	LT	1
	111+88	RT	1
	112+67	RT	1
	114+12	RT	1
	117+00	LT	1
PROJECT TOTAL			**21**

CONCRETE PIPE SUPPORT

CATEGORY	STATION	LOCATION	(SPV.0060.03) EACH
0010	101+95	8.5' RT	1
	103+57	8.5' LT	1
	113+05	6' LT	1
	116+54	6.5' LT	1
PROJECT TOTAL			**4**

STORM SEWER STRUCTURES

CATEGORY	STRUCTURE I.D.	STATION	LOCATION	(611.2004) MANHOLES 4-FT DIAMETER EACH	(611.2005) MANHOLES 5-FT DIAMETER EACH	(611.3004) INLETS 4-FT DIAMETER EACH	(611.3230) INLETS 2x3-FT EACH	(611.3901) INLETS MEDIAN 1 GRATE EACH	(SPV.0060.04) MANHOLE COVER TYPE R-1500 EACH	(SPV.0060.05) INLET COVER TYPE R-3067-L EACH	(SPV.0060.06) INLET COVER TYPE R-4882 EACH	(SPV.0060.07) INLET COVER TYPE R-3290-A EACH	(611.8110)* ADJUSTING MANHOLE COVERS EACH	(611.8115) ADJUSTING INLET COVERS EACH	(SPV.0060.08) RUBBER ADJUSTING RINGS EACH	(650.4000) CONSTRUCTION STAKING STORM SEWER EACH	TOP OF STRUCTURE ELEVATION	BOX DEPTH FEET	FLANGE OR RIM ELEVATION	INVERT ELEVATION
0010	1.0	98+60.00	6.00' LT	-	1	-	-	-	1	-	-	-	-	-	1	1	607.05	4.99	608.22	602.06
	2.0	99+84.00	6.00' LT	-	1	-	-	-	1	-	-	-	-	-	1	1	606.46	4.59	607.63	601.87
	2.1	99+84.00	17.50' LT	-	-	-	1	-	-	1	-	-	-	-	1	1	606.48	3.05	607.40	603.43
	2.2	99+84.00	28.50' RT	-	-	-	1	-	-	1	-	-	-	-	1	1	606.52	2.98	607.44	603.54
	3.1	100+46.96	50.50' RT	-	-	-	1	-	-	1	-	-	-	-	1	1	606.29	3.44	607.21	602.85
	3.2	100+15.96	50.50' RT	-	-	-	1	-	-	1	-	-	-	-	1	1	606.27	3.36	607.19	602.91
	4.0	102+55.50	8.50' LT	-	1	-	-	-	1	-	-	-	-	-	1	1	605.41	4.85	606.58	600.56
	4.1	102+55.50	17.50' LT	-	-	-	1	-	-	1	-	-	-	-	1	1	605.48	2.88	606.40	602.60
	4.2	102+55.50	17.50' RT	-	-	-	1	-	-	1	-	-	-	-	1	1	605.48	2.79	606.40	602.69
	5.0	103+71.77	8.50' LT	-	1	-	-	-	1	-	-	-	-	-	1	1	605.89	5.04	607.06	600.85
	5.1	103+71.69	46.50' LT	-	-	1	-	-	-	1	-	-	-	-	1	1	606.24	2.94	607.16	603.30
	5.2	103+40.69	46.50' LT	-	-	-	1	-	-	1	-	-	-	-	1	1	606.00	2.29	606.92	603.71
	5.3	103+71.88	43.50' RT	-	-	1	-	-	-	1	-	-	-	-	1	1	606.22	2.85	607.14	603.37
	5.4	103+40.87	43.50' RT	-	-	-	1	-	-	1	-	-	-	-	1	1	606.03	2.25	606.95	603.78
	6.0	104+00.50	8.50' LT	1	-	-	-	-	1	-	-	-	-	-	1	1	606.04	4.60	607.21	601.44
	6.1	104+00.50	17.50' LT	-	-	-	1	-	-	1	-	-	-	-	1	1	606.11	2.70	607.03	603.41
	6.2	104+00.50	17.50' RT	-	-	-	1	-	-	1	-	-	-	-	1	1	606.10	2.61	607.02	603.49
	7.0	106+37.00	6.00' LT	1	-	-	-	-	1	-	-	-	-	-	1	1	605.89	3.87	607.06	602.02
	7.1	106+37.00	17.50' LT	-	-	-	1	-	-	1	-	-	-	-	1	1	605.91	2.83	606.83	603.08
	7.2	106+37.00	28.50' RT	-	-	-	1	-	-	1	-	-	-	-	1	1	606.13	2.94	607.05	603.19
	8.0	106+92.50	6.00' LT	-	1	-	-	-	1	-	-	-	-	-	1	1	605.61	3.45	606.78	602.16
	8.1	106+99.32	40.00' LT	-	-	1	-	-	-	1	-	-	-	-	1	1	605.57	2.49	606.49	603.08
	8.2	106+64.56	40.00' LT	-	-	-	1	-	-	1	-	-	-	-	1	1	605.62	2.11	606.54	603.51
	8.3	106+99.46	50.50' RT	-	-	1	-	-	-	1	-	-	-	-	1	1	605.57	2.37	606.49	603.20
	8.4	106+64.51	50.50' RT	-	-	-	1	-	-	1	-	-	-	-	1	1	606.14	2.52	607.06	603.62
	9.0	107+70.50	6.00' LT	1	-	-	-	-	1	-	-	-	-	-	1	1	605.34	2.98	606.51	602.36
	9.1	107+70.50	17.50' LT	-	-	-	1	-	-	1	-	-	-	-	1	1	605.36	1.94	606.28	603.42
	9.2	107+70.50	28.50' RT	-	-	-	1	-	-	1	-	-	-	-	1	1	605.58	2.05	606.50	603.53
	10.1	110+22.25	50.50' RT	-	-	-	1	-	-	1	-	-	-	-	1	1	605.69	2.85	606.61	602.84
	10.2	109+91.25	50.50' RT	-	-	-	1	-	-	1	-	-	-	-	1	1	605.72	2.72	606.64	603.00
	11.0	111+00.00	6.00' LT	1	-	-	-	-	1	-	-	-	-	-	1	1	605.74	2.92	606.91	602.82
	11.1	111+00.00	17.50' LT	-	-	-	1	-	-	1	-	-	-	-	1	1	605.76	2.13	606.68	603.63
	11.2	111+10.00	17.50' LT	-	-	-	1	-	-	1	-	-	-	-	1	1	605.77	1.84	606.69	603.93
	11.3	111+00.00	27.50' RT	-	-	-	1	-	-	1	-	-	-	-	1	1	605.76	2.02	606.68	603.74
	11.4	111+10.00	27.50' RT	-	-	-	1	-	-	1	-	-	-	-	1	1	605.78	1.74	606.70	604.04
	12.0	112+92.00	6.00' LT	1	-	-	-	-	1	-	-	-	-	-	1	1	606.66	3.46	607.83	603.20
	12.1	112+92.00	17.50' LT	-	-	-	1	-	-	1	-	-	-	-	1	1	606.68	1.82	607.60	604.86
	12.2	113+78.00	17.50' LT	-	-	-	1	-	-	1	-	-	-	-	1	1	607.14	1.85	608.06	605.29
	12.3	113+88.00	17.50' LT	-	-	-	1	-	-	1	-	-	-	-	1	1	607.20	1.86	608.12	605.34
	13.0	114+69.00	6.00' LT	1	-	-	-	-	1	-	-	-	-	-	1	1	607.56	3.83	608.73	603.73
	14.0	116+75.00	6.00' LT	1	-	-	-	-	1	-	-	-	-	-	1	1	608.68	4.34	609.85	604.34
	14.1	117+00.50	17.50' LT	-	-	-	1	-	-	1	-	-	-	-	1	1	608.76	2.36	609.68	606.40
	14.2	116+75.00	17.50' RT	-	-	-	1	-	-	1	-	-	-	-	1	1	608.76	3.30	609.68	605.46
	15.1	118+39.10	17.50' RT	-	-	-	1	-	-	1	-	-	-	-	1	1	609.65	3.25	610.57	606.40
	16.0	98+60.00	27.00' RT	-	-	1	-	-	-	-	-	1	-	-	1	1	607.33	3.68	608.25	603.65
	17.1	100+16.35	40.00' LT	-	-	-	1	-	-	1	-	-	-	-	1	1	606.24	3.91	607.16	602.33
	18.0	101+95.00	8.50' LT	-	1	-	-	-	1	-	-	-	-	-	1	1	605.52	5.11	606.69	600.41
	18.1	101+96.50	20.50' RT	-	-	-	1	-	-	1	-	-	-	-	1	1	605.47	3.41	606.39	602.06
	18.2	101+97.70	40.50' RT	-	-	-	-	1	-	-	1	-	-	-	1	1	607.37	5.21	607.37	602.16
	E1.0	100+31.72	7.72' LT	-	-	-	-	-	-	-	-	-	1	-	1	-	-	-	607.39	597.80
	E2.0	100+31.93	54.40' LT	-	-	-	-	-	-	-	-	-	1	-	1	-	-	-	607.31	597.62
	E2.1	100+47.43	54.34' LT	-	-	-	-	-	-	-	-	-	-	1	1	-	-	-	607.22	602.87
	E2.2	100+16.43	54.48' LT	-	-	-	-	-	-	-	-	-	-	1	1	-	-	-	607.13	602.26
	E3.0	100+37.46	50.50' RT	-	-	-	-	-	-	-	-	-	1	-	1	-	-	-	607.45	602.80
	E4.0	110+15.95	6.00' LT	-	-	-	-	-	-	-	-	-	1	-	1	-	-	-	607.20	602.37
	E5.0	110+30.98	50.54' RT	-	-	-	-	-	-	-	-	-	1	-	1	-	-	-	607.40	602.80
	E6.0	118+39.42	0.20' RT	-	-	-	-	-	-	-	-	-	1	-	1	-	-	-	610.92	605.21
	PROJECT TOTALS			**7**	**6**	**5**	**30**	**1**	**13**	**34**	**1**	**1**	**6**	**2**	**57**	**49**				

*ADDITIONAL QUANTITIES FOUND ELSEWHERE

ADJUSTING SANITARY SEWER MANHOLE COVERS AND WATER VALVE BOX

CATEGORY	STATION	LOCATION	(611.8110) * ADJUSTING MANHOLE COVERS EACH	(SPV.0060.01) ADJUST WATER VALVE BOX EACH
0040	98+50	5.5' RT	1	-
	100+14.6	13.5' RT	-	1
	100+19.6	18.5' RT	-	1
	100+25.7	5.5' RT	1	-
	100+41.7	8.5' RT	-	1
	100+49.6	13.5' RT	-	1
	100+75.3	18.5' RT	-	1
	103+45.3	13.5' RT	-	1
	103+45.7	35.6' LT	-	1
	103+50.4	6.5' RT	-	1
	103+56.8	1.5' LT	1	-
	106+81.6	5.5' RT	1	-
	106+90.4	13.5' RT	-	1
	109+98.9	19.5' LT	-	1
	110+03.8	13.5' RT	-	1
	110+06.2	5.5' RT	1	-
	110+48.6	18.5' RT	-	1
	113+00.5	8.5' RT	-	1
	113+05.5	13.5' RT	-	1
	113+29.9	5.1' RT	1	-
	113+32.0	30.5' RT	-	1
	113+70.5	18.5' RT	-	1
	116+10.3	10.7' RT	-	1
	116+16.1	16.1' RT	-	1
	116+48.9	37.0' LT	-	1
	116+63.5	48.9' LT	1	-
	116+88.1	29.7' LT	1	-
		UNDISTRIBUTED	-	-
		PROJECT TOTALS	**8**	**19**

*ADDITIONAL QUANTITIES FOUND ELSEWHERE

3

3

FINISHING ITEMS

CATEGORY	STATION	TO STATION	LOCATION	(625.0100) TOPSOIL SY	(627.0200) MULCHING SY	(628.1504) SILT FENCE LF	(628.1520) SILT FENCE MAINTENANCE LF	(628.2006) EROSION MAT URBAN CLASS I TYPE A SY	(629.0210) FERTILIZER TYPE B CWT	(630.0140) SEEDING MIXTURE NO. 40 LB	(SPV.0120.01) WATER FOR SEEDED AREAS MGAL
0010	97+75	100+15	RT	256	256	-	-	-	0.16	5	14
	98+60	100+15	LT	172	172	-	-	-	0.11	3	10
	100+48	103+40	LT	487	487	-	-	-	0.31	9	28
	100+48	103+40	RT	502	462	-	-	40	0.32	9	28
	103+73	106+64	LT	416	416	-	-	-	0.26	7	24
	103+73	106+64	RT	344	344	-	-	-	0.22	6	19
	107+00	109+90	LT	383	383	-	-	-	0.24	7	22
	107+00	109+90	RT	411	411	-	-	-	0.26	7	23
	110+23	113+16	LT	352	352	-	-	-	0.22	6	20
	110+23	114+31	RT	456	456	-	-	-	0.29	8	26
	113+47	116+42	LT	370	170	-	-	200	0.23	7	21
	116+13	119+00	RT	686	686	-	-	-	0.43	12	39
	116+80	119+00	LT	358	-	-	-	-	0.23	6	20
		UNDISTRIBUTED		-	-	150	300	110	-	-	-
		PROJECT TOTALS		**5,195**	**4,598**	**150**	**300**	**350**	**3.27**	**92**	**294**

MOBILIZATIONS EROSION CONTROL

CATEGORY	DESCRIPTION	(628.1905) MOBILIZATION EROSION CONTROL EACH	(628.1910) EMERGENCY EROSION CONTROL EACH
0010	PROJECT 4085-42-71	10	5
	PROJECT TOTALS	**10**	**5**

TRACKING PADS

CATEGORY	STATION	TO STATION	(628.7560) EACH
0010	98+50	99+00	1
	118+50	119+00	1
	PROJECT TOTAL		**2**

CONSTRUCTION STAKING

CATEGORY	STATION	TO STATION	(650.9910.01) SUPPLEMENTAL CONTROL (PROJECT) LS	(650.9920) SLOPE STAKES LF
0010	98+50	119+00	-	2,050
	PROJECT 4085-42-71		1	-
	PROJECT TOTALS		**1**	**2,050**

INLET PROTECTION

CATEGORY	STATION	LOCATION	(628.7005) TYPE A EACH	(628.7015) TYPE C EACH	(628.7020) TYPE D EACH	NOTES
0010	98+60	RT	-	-	1	PROPOSED
	99+84	LT	-	-	1	PROPOSED
	99+84	RT	-	-	1	PROPOSED
	99+88	RT	-	1	-	EXISTING
	99+92	LT	-	1	-	EXISTING
	100+14	LT	-	1	-	EXISTING
	100+14	RT	-	1	-	EXISTING
	100+16	LT	-	1	-	EXISTING
	100+16	LT	-	-	1	PROPOSED
	100+16	RT	-	-	1	PROPOSED
	100+47	RT	-	-	1	PROPOSED
	100+47	LT	-	1	-	EXISTING
	100+48	RT	-	1	-	EXISTING
	100+48	LT	-	1	-	EXISTING
	101+97	RT	-	-	1	PROPOSED
	101+98	RT	1	-	-	PROPOSED
	102+00	LT	-	1	-	EXISTING
	102+03	RT	-	1	-	EXISTING
	102+56	LT	-	-	1	PROPOSED
	102+56	RT	-	-	1	PROPOSED
	103+38	RT	-	1	-	EXISTING
	103+39	LT	-	1	-	EXISTING
	103+41	LT	-	-	1	PROPOSED
	103+41	RT	-	-	1	PROPOSED
	103+72	LT	-	-	1	PROPOSED
	103+72	RT	-	-	1	PROPOSED
	103+73	LT	-	1	-	EXISTING
	103+73	RT	-	1	-	EXISTING
	103+96	LT	-	1	-	EXISTING
	103+97	RT	-	1	-	EXISTING
	104+00	LT	-	-	1	PROPOSED
	104+00	RT	-	-	1	PROPOSED
	106+37	LT	-	-	1	PROPOSED
	106+37	RT	-	-	1	PROPOSED
	106+40	RT	-	1	-	EXISTING
	106+42	LT	-	1	-	EXISTING
	106+65	LT	-	1	-	EXISTING
	106+65	RT	-	1	-	EXISTING
	106+65	LT	-	-	1	PROPOSED
	106+65	RT	-	-	1	PROPOSED
	106+99	LT	-	1	-	EXISTING
	106+99	RT	-	1	-	EXISTING
	106+99	LT	-	-	1	PROPOSED
	106+99	RT	-	-	1	PROPOSED
	107+22	LT	-	1	-	EXISTING
	107+22	RT	-	1	-	EXISTING
	107+70	LT	-	-	1	PROPOSED
	107+70	RT	-	-	1	PROPOSED
	109+89	RT	-	1	-	EXISTING
	109+91	RT	-	-	1	PROPOSED
	110+22	RT	-	-	1	PROPOSED
	110+23	RT	-	1	-	EXISTING
	ELM STREET		-	2	-	EXISTING
	111+00	LT	-	-	1	PROPOSED
	111+00	RT	-	-	1	PROPOSED
	111+02	LT	-	1	-	EXISTING
	111+02	RT	-	1	-	EXISTING
	111+10	LT	-	-	1	PROPOSED
	111+10	RT	-	-	1	PROPOSED
	112+92	LT	-	-	1	PROPOSED
	113+78	LT	-	-	1	PROPOSED
	113+88	LT	-	-	1	PROPOSED
	114+52	RT	-	1	-	EXISTING
	114+62	LT	-	1	-	EXISTING
	116+75	RT	-	-	1	PROPOSED
	117+00	LT	-	-	1	PROPOSED
	117+01	LT	-	1	-	EXISTING
	117+01	RT	-	1	-	EXISTING
	118+39	RT	-	1	-	EXISTING
	118+39	RT	-	-	1	PROPOSED
	NORTH OF PROJECT LIMITS		-	2	-	EXISTING
	PROJECT TOTALS		**1**	**37**	**35**	

3

TREES

CATEGORY	STATION	LOCATION	(632.0101.01) CRABAPPLE, 'PURPLE PRINCE', B&B, 2-INCH CAL. EACH	(632.0101.02) CRABAPPLE, 'SPRING SNOW', B&B, 2-INCH CAL. EACH	(632.0101.03) JAPANESE TREE LILAC, 'IVORY SILK', B&B, 2-INCH CAL. EACH	(632.0101.04) PEAR, CALLERY 'CHANTICLEER', B&B, 2-INCH CAL. EACH
0020	98+90	LT	1	-	-	-
	99+10	RT	-	-	1	-
	99+25	LT	1	-	-	-
	99+47	RT	-	-	1	-
	101+12	LT	-	1	-	-
	101+20	RT	-	-	-	1
	101+50	LT	-	1	-	-
	101+56	RT	-	-	-	1
	101+86	LT	-	1	-	-
	101+92	RT	-	-	-	1
	102+25	RT	-	-	-	1
	102+60	RT	-	-	-	1
	102+68	LT	-	1	-	-
	104+39	RT	-	-	1	-
	104+50	LT	1	-	-	-
	105+70	RT	-	-	1	-
	105+76	LT	1	-	-	-
	107+55	RT	-	-	-	1
	107+60	LT	-	1	-	-
	107+94	RT	-	-	-	1
	108+00	LT	-	1	-	-
	108+32	RT	-	-	-	1
	108+40	LT	-	1	-	-
	109+25	RT	-	-	-	1
	110+85	LT	1	-	-	-
	110+85	RT	-	-	1	-
	111+25	LT	1	-	-	-
	111+25	RT	-	-	1	-
	112+12	LT	1	-	-	-
	112+47	RT	-	-	1	-
	112+52	LT	1	-	-	-
	114+10	LT	-	1	-	-
	114+70	LT	-	1	-	-
	115+10	LT	-	1	-	-
	115+50	LT	-	1	-	-
PROJECT TOTALS			**8**	**11**	**7**	**9**

LANDSCAPE PLANTING SURVEILLANCE AND CARE CYCLES

CATEGORY	DESCRIPTION	(632.9101) EACH
0020	PROJECT 4085-42-71	10
	PROJECT TOTAL	**10**

SHREDDED HARDWOOD BARK MULCH

CATEGORY	STATION	TO STATION	LOCATION	(SPV.0180.02) SY
0010	112+87	112+98	RT	5
	113+03	113+21	RT	8
	113+26	113+65	RT	17
		PROJECT TOTAL		**30**

PERMANENT SIGNING

CATEGORY	SIGN NO	STATION	LOCATION	SIGN CODE	SIZE IN X IN	(637.2210) SIGNS TYPE II REFLECTIVE H SF	(637.2230) SIGNS TYPE II REFLECTIVE F SF	(634.0614) POSTS WOOD 4X6-INCH X 14-FT EACH	(634.0616) POSTS WOOD 4X6-INCH X 16-FT EACH	NOTES
0010	1.1	97+92	LT	R3-17	30 X 24	5.00	-	-	1	
	1.2	97+92	LT	R3-17-B	30 X 12	2.50	-	-	-	MOUNTED WITH SIGN 1.1
	1.3	97+92	LT	R7-7-R	18 X 24	3.00	-	-	-	MOUNTED WITH SIGN 1.1
	1.4	99+35	LT	R3-8-A	36 X 30	7.50	-	1	-	
	1.5	99+85	LT	R3-17	30 X 24	5.00	-	-	1	
	1.6	99+85	LT	R7-R-L	18 X 24	3.00	-	-	-	MOUNTED WITH SIGN 1.5
	1.9	100+10	LT	R1-1	30 X 30	5.18	-	-	1	MOUNTED WITH SIGNS 1.7 & 1.8
	1.10	100+54	LT	R5-2	24 X 24	4.00	-	1	-	
	1.11	100+75	LT	R7-1-R	18 X 24	3.00	-	1	-	
	1.12	101+57	LT	J3-2	48 X 57	19.00	-	-	2	M3-3, M4-5, M1-6B, M5-1L
	1.13	98+05	RT	R3-17	30 X 24	5.00	-	-	-	ON STREET LIGHT POLE
	1.14	98+05	RT	R7-1-L	18 X 24	3.00	-	-	-	ON STREET LIGHT POLE
	1.15	99+01	RT	J4-1	24 X 36	6.00	-	1	-	M3-1, M1-6B
	1.16	99+84	RT	R7-1-R	18 X 24	3.00	-	1	-	
	1.17	100+08	RT	R5-2	24 X 24	4.00	-	1	-	
	1.18	100+53	RT	R1-1	30 X 30	5.18	-	1	-	
	1.19	100+71	RT	R3-17	30 X 24	5.00	-	-	-	ON STREET LIGHT POLE
	1.20	100+71	RT	R7-1-L	18 X 24	3.00	-	-	-	ON STREET LIGHT POLE
	1.21	101+87	RT	R2-1	24 X 30	5.00	-	-	-	ON STREET LIGHT POLE, 25 MPH
	2.1	103+13	LT	R3-17	30 X 24	5.00	-	-	1	
	2.2	103+13	LT	R7-1-L	18 X 24	3.00	-	-	-	MOUNTED WITH SIGN 2.1
	2.5	103+34	LT	R1-1	30 X 30	5.18	-	-	1	MOUNTED WITH SIGNS 2.3 & 2.4
	2.6	103+79	LT	R5-2	24 X 24	4.00	-	1	-	
	2.7	104+00	LT	R7-1-R	18 X 24	3.00	-	1	-	
	2.8	106+39	LT	R3-17	30 X 24	5.00	-	-	1	
	2.9	160+39	LT	R7-1-L	18 X 24	3.00	-	-	-	MOUNTED WITH SIGN 2.8
	2.12	106+60	LT	R1-1	30 X 30	5.18	-	-	1	MOUNTED WITH SIGNS 2.10 & 2.11
	2.13	107+06	LT	R5-2	24 X 24	4.00	-	1	-	
	2.14	107+26	LT	R7-1-R	18 X 24	3.00	-	1	-	
	2.15	108+10	LT	J4-1	24 X 36	6.00	-	1	-	M3-3, M1-6B
	2.16	103+13	RT	R7-1-R	18 X 24	3.00	-	-	-	ON STREET LIGHT POLE
	2.17	103+34	RT	W14-2	30 X 30	-	6.25	1	-	
	2.18	103+78	RT	R1-1	30 X 30	5.18	-	1	-	
	2.19	104+00	RT	R3-17	30 X 24	5.00	-	-	1	
	2.20	104+00	RT	R7-1-L	18 X 24	3.00	-	-	-	MOUNTED WITH SIGN 2.19
	2.21	106+38	RT	R7-1-R	18 X 24	3.00	-	1	-	
	2.22	106+59	RT	R5-2	24 X 24	4.00	-	1	-	
	2.23	107+05	RT	R1-1	30 X 30	5.18	-	1	-	
	2.24	107+22	RT	R3-17	30 X 24	5.00	-	-	-	ON STREET LIGHT POLE
	2.25	107+22	RT	R7-1-L	18 X 24	3.00	-	-	-	ON STREET LIGHT POLE
	2.26	108+10	RT	J4-1	24 X 36	6.00	-	1	-	M3-1, M1-6B
	3.1	108+84	LT	R2-1	24 X 30	5.00	-	1	-	25 MPH
	3.2	109+64	LT	R3-17	30 X 24	5.00	-	-	1	
	3.3	109+64	LT	R7-1-L	18 X 24	3.00	-	-	-	MOUNTED WITH SIGN 3.2
	3.6	109+84	LT	R1-1	30 X 30	5.18	-	-	1	MOUNTED WITH SIGNS 3.4 & 3.5
	3.7	110+30	LT	R5-2	24 X 24	4.00	-	1	-	
	3.8	110+59	LT	R7-1-R	18 X 24	3.00	-	1	-	
	3.9	112+90	LT	R3-17	30 X 24	5.00	-	-	1	
	3.10	112+90	LT	R7-1-L	18 X 24	3.00	-	-	-	MOUNTED WITH SIGN 3.9
	3.13	113+09	LT	R1-1	30 X 30	5.18	-	-	1	MOUNTED WITH SIGNS 3.11 & 3.12
	3.14	113+54	LT	R5-2	24 X 24	4.00	-	1	-	
	3.15	113+72	LT	R7-1-R	18 X 24	3.00	-	1	-	
	3.16	109+65	RT	R7-1-R	18 X 24	3.00	-	-	-	ON STREET LIGHT POLE
	3.17	110+28	RT	R1-1	30 X 30	5.18	-	1	-	
	3.18	110+53	RT	R3-17	30 X 24	5.00	-	1	-	

CONTINUED ON NEXT PAGE

PERMANENT SIGNING CONTINUED

CATEGORY	SIGN NO.	STATION	LOCATION	SIGN CODE	SIZE IN X IN	(637.2210) SIGNS TYPE II REFLECTIVE H SF	(637.2230) SIGNS TYPE II REFLECTIVE F SF	(634.0614) POSTS WOOD 4X6-INCH X 14-FT EACH	(634.0616) POSTS WOOD 4X6-INCH X 16-FT EACH	NOTES
0010	3.19	112+38	RT	R2-1	24 X 30	5.00	-	-	-	ON STREET LIGHT POLE, 25 MPH
	3.20	113+75	RT	R3-17	30 X 24	5.00	-	-	-	ON STREET LIGHT POLE
	3.21	114+23	RT	R7-1-L	18 X 24	3.00	-	1	-	
	4.1	116+08	LT	R3-17	30 X 24	5.00	-	-	1	
	4.2	116+08	LT	R7-1-L	18 X 24	3.00	-	-	-	MOUNTED WITH SIGN 4.1
	4.5	116+37	LT	R1-1	30 X 30	5.18	-	-	1	MOUNTED WITH SIGNS 4.3 & 4.4
	4.6	116+84	LT	R5-2	24 X 24	4.00	-	1	-	
	4.7	116+98	LT	R7-1-R	18 X 24	3.00	-	1	-	
	4.8	117+72	LT	R2-1	24 X 30	5.00	-	1	-	25 MPH
	4.9	118+40	LT	J4-1	24 X 36	6.00	-	1	-	M3-3, M1-6B
	4.10	-	LT	R3-17	30 X 24	5.00	-	-	1	
	4.11	-	LT	R7-1-L	18 X 24	3.00	-	-	-	MOUNTED WITH SIGN 4.10
	4.12	116+34	RT	R7-1-D	18 X 24	3.00	-	-	-	ON STREET LIGHT POLE
	4.13	117+84	RT	W2-6	30 X 30	-	6.25	-	1	
	4.14	117+84	RT	W13-1	18 X 18	-	2.25	-	-	MOUNTED WITH SIGN 4.13
	4.15	118+84	RT	R3-17	30 X 24	5.00	-	-	-	ON STREET LIGHT POLE
	4.16	118+84	RT	R3-17-B	30 X 12	2.50	-	-	-	ON STREET LIGHT POLE
	4.17	118+84	RT	R7-1-D	18 X 24	3.00	-	-	-	ON STREET LIGHT POLE
				PROJECT TOTALS		**309.30**	**14.75**	**30**	**18**	

INSTALL CITY SUPPLIED STREET NAME SIGN

CATEGORY	SIGN NO	STATION	LOCATION	SIGN CODE	(SPV.0060.09) EACH
0040	1.7	100+10	LT	OAK ST	1
	1.8	100+10	LT	N EIGHT ST	1
	2.3	103+34	LT	PINE ST	1
	2.4	103+34	LT	N EIGHT ST	1
	2.10	106+60	LT	CEDAR ST	1
	2.11	106+60	LT	N EIGHT ST	1
	3.4	109+84	LT	ELM ST	1
	3.5	109+84	LT	N EIGTH ST	1
	3.11	113+09	LT	SPRUCE ST	1
	3.12	113+09	LT	N EIGTH ST	1
	4.3	116+37	LT	ASH ST	1
	4.4	116+37	LT	N EIGTH ST	1
				PROJECT TOTAL	**12**

PAVEMENT MARKINGS

CATEGORY	STATION	TO STATION	(646.0600) REMOVING PAVEMENT MARKINGS LF	(646.0106) PAVEMENT MARKING EPOXY 4-INCH (YELLOW) LF	(646.0106) PAVEMENT MARKING EPOXY 4-INCH (WHITE) LF	(646.0126) PAVEMENT MARKING EPOXY 8-INCH (WHITE) LF	(647.0166) PAVEMENT MARKING ARROWS EPOXY TYPE 2 (WHITE) EACH	(647.0206) PAVEMENT MARKING ARROWS BIKE LANE EPOXY (WHITE) EACH	(647.0306) PAVEMENT MARKING SYMBOLS BIKE LANE EPOXY (WHITE) EACH	(647.0356) PAVEMENT MARKING WORDS EPOXY (WHITE) EACH	(647.0566) PAVEMENT MARKING STOP LINE EPOXY 18-INCH (WHITE) LF	(647.0726) PAVEMENT MARKING DIAGONAL EPOXY 12-INCH (YELLOW) LF	(647.0766) PAVEMENT MARKING CROSSWALK EPOXY 6-INCH (WHITE) LF	(647.0786) PAVEMENT MARKING CROSSWALK EPOXY 18-INCH (WHITE) LF
0010	97+41	99+98	258	500	295	194	2	2	2	2	35	-	-	78
	99+98	100+60	-	-	-	-	-	-	-	-	29	-	135	-
	100+60	103+25	-	805	425	-	-	2	2	-	-	59	-	138
	103+25	103+87	-	-	-	-	-	-	-	-	29	-	120	-
	103+87	106+50	-	795	425	50	1	2	2	-	-	36	-	138
	106+50	107+12	-	-	-	-	-	-	-	-	33	-	150	-
	107+12	109+75	-	895	425	50	1	2	2	-	-	75	-	150
	109+75	110+38	-	-	-	-	-	-	-	-	29	-	127	-
	110+38	113+03	-	610	723	-	-	2	2	-	-	-	-	144
	113+03	113+59	-	-	112	-	-	-	-	-	14	-	64	-
	113+59	119+00	-	1,071	939	-	-	3	3	-	17	-	79	78
	119+00	MATCH	38	406	120	-	-	1	1	-	-	-	-	-
SUBTOTALS			**-**	**5,082**	**3,463**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
PROJECT TOTALS			**296**	**8,545**		**294**	**4**	**14**	**14**	**2**	**186**	**170**	**675**	**726**

REMOVING SIGNS

CATEGORY	SIGN NO.	STATION	LOCATION	(638.2602) REMOVING SIGNS TYPE II EACH	(638.3000) REMOVING SMALL SIGN SUPPORTS EACH	REMARKS
0010	E1.1	98+35	LT	1	-	ON UTILITY POLE
	E1.2	99+88	LT	1	1	
	E1.3	100+10	LT	1	1	
	E1.4	100+53	LT	1	1	
	E1.5	99+01	RT	1	1	
	E1.6	100+08	RT	1	1	
	E1.7	100+52	RT	1	1	
	E2.1	103+33	LT	1	1	
	E2.2	106+60	LT	1	1	
	E2.3	107+76	LT	1	-	ON UTILITY POLE
	E2.4	103+34	RT	1	1	
	E2.5	103+77	RT	1	1	
	E2.6	107+04	RT	1	1	
	E2.7	107+04	RT	1	-	MOUNTED WITH SIGN E2.6
	E2.8	107+19	RT	1	1	
	E2.9	108+06	RT	1	1	
	E3.1	109+85	LT	1	1	
	E3.2	113+09	LT	1	1	
	E3.3	109+84	RT	1	1	
	E3.4	110+27	RT	1	1	
	E4.1	115+27	LT	1	1	
	E4.2	116+39	LT	1	1	
	E4.3	116+90	LT	1	-	ON UTILITY POLE
	E4.4	117+72	LT	1	1	
	E4.5	117+58	RT	1	1	
PROJECT TOTALS				**25**	**21**	

NOTE: SIGNS AT THE SAME LOCATION ARE COUNTED AS ONE SIGN REMOVAL

TRAFFIC CONTROL

CATEGORY	DESCRIPTION	BARRICADES TYPE III NO. DEVICES	(643.0420) TRAFFIC CONTROL BARRICADES TYPE III DAY	WARNING LIGHTS TYPE A NO. DEVICES	* (643.0705) TRAFFIC CONTROL WARNING LIGHTS TYPE A DAY	SIGNS NO. DEVICES	* (643.0900) TRAFFIC CONTROL SIGNS DAY	SIGNS FIXED MESSAGE NO. DEVICES	* (643.1000) TRAFFIC CONTROL SIGNS FIXED MESSAGE SF	DURATION	
0010	MAIN AVE.	-	-	-	-	8	1,208	2	5	151	DAYS
	OAK ST.	4	604	8	1,208	4	604	-	-	151	DAYS
	PINE ST.	4	604	8	1,208	3	453	-	-	151	DAYS
	CEDAR ST.	4	604	8	1,208	4	604	-	-	151	DAYS
	ELM ST.	4	604	8	1,208	3	453	-	-	151	DAYS
	SPRUCE ST.	2	302	4	604	2	302	-	-	151	DAYS
	ASH ST.	2	302	4	604	2	302	-	-	151	DAYS
	S. 8TH ST.	5	755	7	1,057	1	151	-	-	151	DAYS
	GLORY RD.	-	-	-	-	3	453	1	2.5	151	DAYS
	8TH ST. & STH 32 ROUNDABOUT	5	755	7	1,057	13	1,963	2	5	151	DAYS
	PROJECT TOTALS		**4,530**		**8,154**		**6,493**		**12.5**		

*ADDITIONAL QUANTITIES FOUND ELSEWHERE

PEDESTRIAN DETOUR

CATEGORY	DESCRIPTION	BARRICADES TYPE II NO. DEVICES	(643.0410) TRAFFIC CONTROL BARRICADES TYPE II DAY	WARNING LIGHTS TYPE A NO. DEVICES	* (643.0705) TRAFFIC CONTROL WARNING LIGHTS TYPE A DAY	SIGNS NO. DEVICES	* (643.0900) TRAFFIC CONTROL SIGNS DAY	SIGNS FIXED MESSAGE NO. DEVICES	* (643.1000) TRAFFIC CONTROL SIGNS FIXED MESSAGE SF	(644.1410.S) TEMPORARY PEDESTRIAN SURFACE ASPHALT SF	(644.1601.S) TEMPORARY CURB RAMP EACH	(644.1616.S) TEMPORARY PEDESTRIAN SAFETY FENCE LF	DURATION	
0010	MAIN AVENUE	-	-	-	-	4	604	2	5	-	-	-	151	DAYS
	OAK STREET	4	604	4	604	4	604	-	-	400	8	240	151	DAYS
	PINE STREET	4	604	4	604	4	604	-	-	400	8	240	151	DAYS
	CEDAR STREET	4	604	4	604	4	604	-	-	400	8	240	151	DAYS
	ELM STREET	4	604	4	604	4	604	-	-	400	8	240	151	DAYS
	SPRUCE STREET	3	453	3	453	3	453	-	-	400	6	140	151	DAYS
	ASH STREET	2	302	2	302	2	302	-	-	-	2	100	151	DAYS
	N. 8TH STREET	2	302	2	302	4	604	-	-	-	-	-	151	DAYS
	PROJECT TOTALS		**3,473**		**3,473**		**4,379**		**5**	**2,000**	**40**	**1,200**		

*ADDITIONAL QUANTITIES FOUND ELSEWHERE

TEMPORARY PAVEMENT MARKING REMOVABLE MASK-OUT TAPE 6-INCH

CATEGORY	DESCRIPTION	(649.0506) LF
0010	STH 32 SOUTHBOUND ROUNDABOUT APPROACH	90
	GLORY ROAD EASTBOUND ROUNDABOUT APPROACH	90
	N. ASHLAND AVENUE NORTHBOUND ROUNDABOUT APPROACH	60
	PROJECT TOTAL	**240**

FENCE SAFETY

CATEGORY	DESCRIPTION	(616.0700.S) LF
0010	UNDISTRIBUTED	200
	PROJECT TOTAL	**200**

CONDUIT RIGID NONMETALLIC

CATEGORY	FROM	TO	(652.0225) SCHEDULE 40 2-INCH LF	(652.0235) SCHEDULE 40 3-INCH LF	(652.0325) SCHEDULE 80 2-INCH LF	(652.0605) CONDUIT SPECIAL 2-INCH LF
0030	STUB (STA. 97+95.0)	LP-1	10	-	-	-
	LP-1	LP-2	93	-	-	40
	LP-2	PB-1	66	-	55	-
	PB-1	STUB (60.5' RT)	31	-	-	-
	PB-1	STUB (60.5' LT)	24	-	70	-
	PB-1	LP-3	13	-	-	-
	LP-3	LP-4	117	-	-	-
	LP-4	LP-5	133	-	-	-
	LP-5	PB-2	18	-	54	-
	PB-2	STUB (59.0' LT)	27	-	55	-
	PB-2	STUB (53.0' RT)	33	-	-	-
	PB-2	LP-6	69	-	-	-
	LP-6	LP-7	140	-	-	-
	LP-7	PB-3	62	-	62	-
	PB-3	STUB (60.0' RT)	27	-	-	-
	PB-3	PB-4	13	-	70	-
	PB-4	STUB (STA. 106+60)	-	-	43	-
	PB-3	LP-8	13	-	-	-
	LP-8	LP-9	117	-	-	-
	LP-9	PB-5	5	-	-	-
	PB-5	LCC-1	-	10	-	-
	PB-5	LP-10	126	-	-	-
	LP-10	PB-6	15	-	57	-
	PB-6	STUB (59.0' RT)	34	-	-	-
	PB-6	STUB (51.0' LT)	15	-	65	-
	PB-6	LP-11	69	-	-	-
	LP-11	LP-12	139	-	-	-
	LP-12	PB-7	113	-	-	-
	PB-7	STUB (53.0' LT)	20	-	65	-
	PB-7	LP-13	26	-	-	-
	LP-13	LP-14	134	-	-	-
	LP-14	LP-15	134	-	-	-
	LP-15	PB-8	50	-	-	-
	PB-8	STUB (60.0' LT)	24	-	54	-
	PB-8	LP-16	78	-	-	-
	LP-16	LP-17	128	-	-	-
	LP-17	STUB (STA. 118+94.0)	12	-	-	-
PROJECT TOTALS			**2,128**	**10**	**650**	**40**

ELECTRICAL WIRE LIGHTING

CATEGORY	FROM	TO	* (655.0610) 12 AWG LF	(655.0615) 10 AWG LF	(655.0620) 8 AWG LF
0030	STUB (STA. 97+95.0)	LP-1	-	-	-
	LP-1	LP-2	429	-	-
	LP-2	PB-1	426	-	-
	PB-1	STUB (60.5' RT)	-	-	-
	PB-1	STUB (60.5' LT)	-	-	-
	PB-1	LP-3	102	-	-
	LP-3	LP-4	-	381	-
	LP-4	LP-5	-	429	-
	LP-5	PB-2	-	279	-
	PB-2	STUB (59.0' LT)	-	-	-
	PB-2	STUB (53.0' RT)	-	-	-
	PB-2	LP-6	-	270	-
	LP-6	LP-7	-	-	450
	LP-7	PB-3	-	-	435
	PB-3	STUB (60.0' RT)	-	-	-
	PB-3	PB-4	-	-	-
	PB-4	STUB (STA. 106+60)	-	-	-
	PB-3	LP-8	-	-	102
	LP-8	LP-9	-	-	381
	LP-9	PB-5	-	-	78
	PB-5	LCC-1	-	84	84
	PB-5	LP-10	-	441	-
	LP-10	PB-6	-	279	-
	PB-6	STUB (59.0' RT)	-	-	-
	PB-6	STUB (51.0' LT)	-	-	-
	PB-6	LP-11	-	270	-
	LP-11	LP-12	-	447	-
	LP-12	PB-7	402	-	-
	PB-7	STUB (53.0' LT)	-	-	-
	PB-7	LP-13	141	-	-
	LP-13	LP-14	432	-	-
	LP-14	LP-15	432	-	-
	LP-15	PB-8	213	-	-
	PB-8	STUB (60.0' LT)	-	-	-
	PB-8	LP-16	297	-	-
	LP-16	LP-17	414	-	-
	LP-17	STUB (STA. 118+94.0)	-	-	-
PROJECT TOTALS			**3,288**	**2,880**	**1,530**

*ADDITIONAL QUANTITIES FOUND ELSEWHERE

PULL BOXES STEEL 24x42-INCH

CATEGORY	PULL BOX NUMBER	STATION	LOCATION	(653.0140) EACH
0030	PB-1	100+58.5	33.5' RT	1
	PB-2	103+84.0	23.0' RT	1
	PB-3	107+09.5	34.5' RT	1
	PB-4	107+03.0	48.0' LT	1
	PB-5	108+44.0	32.0' RT	1
	PB-6	110+34.5	28.5' RT	1
	PB-7	113+50.0	31.0' RT	1
	PB-8	116+82.0	21.0' RT	1
		PROJECT TOTAL		**8**

CONSTRUCTION STAKING ELECTRICAL INSTALLATIONS

CATEGORY	PROJECT	(650.8500.01) LS
0030	4085-042-71	1
	PROJECT TOTAL	**1**

STREET LIGHT POLE ASSEMBLY

CATEGORY	POLE NUMBER	STATION	LOCATION	(654.0105) CONCRETE BASES TYPE 5 EACH	(657.0255) TRANSFORMER BASES BREAKAWAY 11 1/2-INCH BOLT CIRCLE EACH	(SPV.0060.10) POLES TYPE 5 MODIFIED 16-FOOT ALUMINUM EACH	(657.0615) LUMINAIRE ARMS SINGLE MEMBER 4 1/2-INCH CLAMP 8-FT EACH	(657.0710) LUMINAIRE ARMS TRUSS TYPE 4 1/2-INCH CLAMP 12-FT EACH	(SPV.0060.11) LUMINAIRES UTILITY LED A MODIFIED EACH	(SPV.0060.12) LIGHTING ASSEMBLIES BLACK FINISH EACH	* (655.0610) ELECTRICAL WIRE LIGHTING 12 AWG LF
0030	LP-1	98+05.0	32.0' RT	1	1	1	-	1	1	1	93
	LP-2	99+38.0	32.0' RT	1	1	1	-	1	1	1	93
	LP-3	100+71.0	32.0' RT	1	1	1	-	1	1	1	93
	LP-4	101+87.0	27.6' RT	1	1	1	-	1	1	1	93
	LP-5	103+13.0	25.0' RT	1	1	1	-	1	1	1	93
	LP-6	104+47.5	26.8' RT	1	1	1	-	1	1	1	93
	LP-7	105+86.0	32.0' RT	1	1	1	-	1	1	1	93
	LP-8	107+22.0	32.0' RT	1	1	1	-	1	1	1	93
	LP-9	108+39.0	25.0' RT	1	1	1	-	1	1	1	93
	LP-10	109+65.0	32.0' RT	1	1	1	-	1	1	1	93
	LP-11	111+01.0	32.0' RT	1	1	1	-	1	1	1	93
	LP-12	112+38.0	32.0' RT	1	1	1	-	1	1	1	93
	LP-13	113+75.0	32.0' RT	1	1	1	-	1	1	1	93
	LP-14	115+03.0	22.0' RT	1	1	1	1	-	1	1	81
	LP 15	116+34.0	22.0' RT	1	1	1	1	-	1	1	81
	LP-16	117+59.0	22.0' RT	1	1	1	1	-	1	1	81
	LP-17	118+84.0	22.0' RT	1	1	1	1	-	1	1	81
		PROJECT TOTALS		**17**	**17**	**17**	**4**	**13**	**17**	**17**	**1,533**

*ADDITIONAL QUANTITIES FOUND ELSEWHERE

STREET LIGHTING CONTROL CABINET

CATEGORY	CABINET NUMBER	STATION	LOCATION	(654.0224) CONCRETE CONTROL CABINET BASES TYPE L24 EACH	(656.0200.01) ELECTRICAL SERVICE METER BREAKER PEDESTAL (LOCATION) LS	(659.2124) LIGHTING CONTROL CABINETS 120/240 24-INCH EACH
0030	LCC-1	108+44.0	36.5' RT	1	1	1
		PROJECT TOTALS		**1**	**1**	**1**

TRANSPORTATION PROJECT PLAT NO: 4085–42–21 – 4.01

THAT PART OF LOT 1 CSM 8187, VOL 57, PAGE 95, DOC 2550967; LOT 1 CSM 2880, VOL 14, PAGE 269, DOC 1045800; LOTS 51 AND 52 OF BLOCK 35; LOTS 51 AND 52 OF BLOCK 36; LOTS 51 AND 52 OF BLOCK 37; LOTS 49 AND 50 OF BLOCK 19; LOTS 49 AND 50 OF BLOCK 18; LOT 49 OF BLOCK 17; LOTS 49 AND 50 OF BLOCK 16 OF THE DEPERE COMPANY'S ADDITION TO THE VILLAGE OF WEST DEPERE LOCATED IN PRIVATE CLAIM 28 IN THE CITY OF DEPERE, BROWN COUNTY, WISCONSIN.

RELOCATION ORDER STH 32 (8TH STREET), CITY OF DEPERE, BROWN COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE CITY OF DEPERE 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 62.22, WISCONSIN STATUTES, THE CITY OF DEPERE 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 CITY FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE CITY OF DEPERE, PURSUANT TO THE PROVISIONS OF SECTION 62.22, WISCONSIN STATUTES.

CONVENTIONAL ABBREVIATIONS

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

CURVE DATA

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

CONVENTIONAL SYMBOLS

FOUND IRON PIPE/PIN (1" UNLESS NOTED)
R/W MONUMENT ●(SET)
R/W STANDARD ▲(SET)
SIGN ISIGN
SECTION CORNER MONUMENT
SECTION CORNER SYMBOL
FEE (HATCH VARIES)
TEMPORARY LIMITED EASEMENT
PERMANENT LIMITED EASEMENT
R/W BOUNDARY POINT RWB20
PARCEL NUMBER 102
UTILITY INTEREST 40
SIGN NUMBER (OFF PREMISE) 21
BUILDING

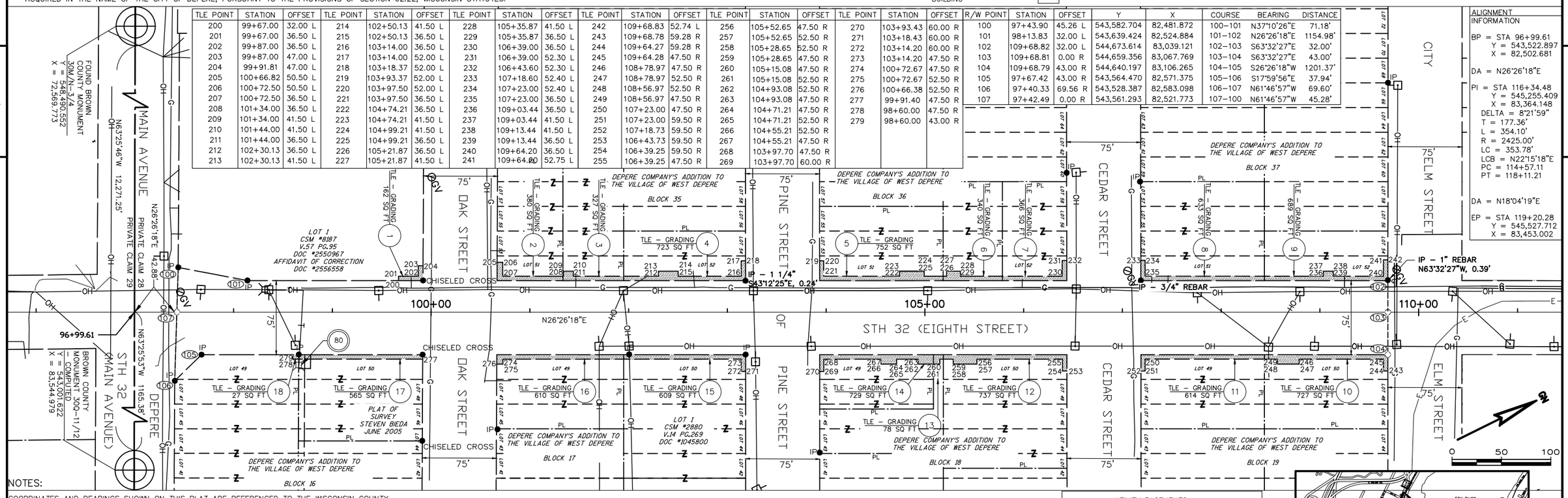
PROPOSED R/W LINE
EXISTING H.E. LINE
PROPERTY LINE
LOT & TIE LINES
SLOPE INTERCEPTS
CORPORATE LIMITS
ACCESS RESTRICTED (BY PREVIOUS ACQUISITION/CONTROL)
ACCESS RESTRICTED (BY ACQUISITION)
NO ACCESS (BY STATUTORY AUTHORITY)
SECTION LINE
QUARTER LINE
SIXTEENTH LINE
EXISTING CENTERLINE
PROPOSED REFERENCE LINE
PARALLEL OFFSET

CONVENTIONAL UTILITY SYMBOLS

WATER	W	
GAS	G	
TELEPHONE	T	
OVERHEAD	OH	
TRANSMISSION LINES 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 4085–42–21 – 4.01
AMENDMENT NO: ____

TLE POINT	STATION	OFFSET	TLE POINT	STATION	OFFSET	TLE POINT	STATION	OFFSET	TLE POINT	STATION	OFFSET	TLE POINT	STATION	OFFSET	TLE POINT	STATION	OFFSET	R/W POINT	STATION	OFFSET	Y	X	COURSE	BEARING	DISTANCE
200	99+67.00	32.00 L	214	102+50.13	41.50 L	228	105+35.87	41.50 L	242	109+68.83	52.74 L	256	105+52.65	47.50 R	270	103+93.43	60.00 R	100	97+43.90	45.26 L	543,582.704	82,481.872	100–101	N37°10'26"E	71.18'
201	99+67.00	36.50 L	215	102+50.13	36.50 L	229	105+35.87	36.50 L	243	109+68.78	59.28 R	257	105+52.65	52.50 R	271	103+18.43	60.00 R	101	98+13.83	32.00 L	543,639.424	82,524.884	101–102	N26°26'18"E	1154.98'
202	99+87.00	36.50 L	216	103+14.00	36.50 L	230	106+39.00	36.50 L	244	109+64.27	59.28 R	258	105+28.65	52.50 R	272	103+14.20	60.00 R	102	109+68.82	32.00 L	544,673.614	83,039.121	102–103	S63°32'27"E	32.00'
203	99+87.00	47.00 L	217	103+14.00	52.00 L	231	106+39.00	52.30 L	245	109+64.28	47.50 R	259	105+28.65	47.50 R	273	103+14.20	47.50 R	103	109+68.81	0.00 R	544,659.356	83,067.769	103–104	S63°32'27"E	43.00'
204	99+91.81	47.00 L	218	103+18.37	52.00 L	232	106+43.60	52.30 L	246	108+78.97	47.50 R	260	105+15.08	47.50 R	274	100+72.67	47.50 R	104	109+68.79	43.00 R	544,640.197	83,106.265	104–105	S26°26'18"W	1201.37'
205	100+66.82	50.50 L	219	103+93.37	52.00 L	233	107+18.60	52.40 L	247	108+78.97	52.50 R	261	105+15.08	52.50 R	275	100+72.67	52.50 R	105	97+67.42	43.00 R	543,564.470	82,571.375	105–106	S17°59'56"E	37.94'
206	100+72.50	50.50 L	220	103+97.50	52.00 L	234	107+23.00	52.40 L	248	108+56.97	52.50 R	262	104+93.08	52.50 R	276	100+66.38	52.50 R	106	97+40.33	69.56 R	543,528.387	82,583.098	106–107	N61°46'57"W	69.60'
207	100+72.50	36.50 L	221	103+97.50	36.50 L	235	107+23.00	36.50 L	249	108+56.97	47.50 R	263	104+93.08	47.50 R	277	99+91.40	47.50 R	107	97+42.49	0.00 R	543,561.293	82,521.773	107–100	N61°46'57"W	45.28'
208	101+34.00	36.50 L	222	104+74.21	36.50 L	236	109+03.44	36.50 L	250	107+23.00	47.50 R	264	104+71.21	47.50 R	278	98+60.00	47.50 R								
209	101+34.00	41.50 L	223	104+74.21	41.50 L	237	109+03.44	41.50 L	251	107+23.00	59.50 R	265	104+71.21	52.50 R	279	98+60.00	43.00 R								
210	101+44.00	41.50 L	224	104+99.21	41.50 L	238	109+13.44	41.50 L	252	107+18.73	59.50 R	266	104+55.21	52.50 R											
211	101+44.00	36.50 L	225	104+99.21	36.50 L	239	109+13.44	36.50 L	253	106+43.73	59.50 R	267	104+55.21	47.50 R											
212	102+30.13	36.50 L	226	105+21.87	36.50 L	240	109+64.20	36.50 L	254	106+39.25	59.50 R	268	103+97.70	47.50 R											
213	102+30.13	41.50 L	227	105+21.87	41.50 L	241	109+64.20	52.75 L	255	106+39.25	47.50 R	269	103+97.70	60.00 R											



ALIGNMENT INFORMATION

BP = STA 96+99.61
Y = 543,522.897
X = 82,502.681

DA = N26°26'18"E

PI = STA 116+34.48
Y = 545,255.409
X = 83,364.148
DELTA = 8°21'59"
T = 177.36'
L = 354.10'
R = 2425.00'
LC = 353.78'
LCB = N22°15'18"E
PC = 114+57.11
PT = 118+11.21

DA = N18°04'19"E

EP = STA 119+20.28
Y = 545,527.712
X = 83,453.002

NOTES:

COORDINATES AND BEARINGS SHOWN ON THIS PLAT ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM, BROWN COUNTY ZONE, NAD83 (1991) ADJUSTMENT. THE COORDINATES SHOWN ARE GRID COORDINATES AND ARE TO BE USED AS GRID OR GROUND VALUES ON THIS PLAT.

RIGHT–OF–WAY MONUMENTS ARE TYPE 2 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.

EXISTING HIGHWAY RIGHT–OF–WAY SHOWN HEREIN IS BASED ON THE FOLLOWING POINTS OF REFERENCE:
WISDOT HIGHWAY PLAT – PROJECT F 060–1(2)
WISDOT HIGHWAY PLAT – PROJECT T3147 (1)
WISDOT TRANSPORTATION PROJECT PLAT NO: 4085–26–21
WISDOT TRANSPORTATION PROJECT PLAT NO: 4085–26–22
DEPERE COMPANY'S ADDITION TO THE VILLAGE OF DEPERE
CSM NO. 8187, DOCUMENT NO. 2556558
CSM NO. 2880, DOCUMENT NO. 1045800
EXISTING HIGHWAY RIGHT–OF–WAY FOR SIDE ROADS ESTABLISHED FROM DEPERE COMPANY'S ADDITION TO THE VILLAGE OF WEST DEPERE.

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.

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

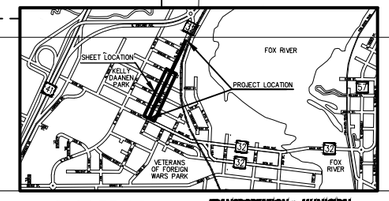
UTILITY NUMBER	PARCEL AFFECTED	OWNER(S)	INTEREST REQUIRED
80	17	AT&T	RELEASE OF RIGHTS

UTILITY EASEMENTS	
PARCEL AFFECTED	OWNER(S)
17	AT&T (EASEMENT DOC #2660871 & #1687556)

SCHEDULE OF LANDS & INTERESTS REQUIRED

OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERESTS TO THE DEPARTMENT.

PARCEL NUMBER	OWNER(S)	INTEREST REQUIRED	R/W SQ FT REQUIRED NEW	EXISTING	TOTAL	TLE SQ FT
1	MARK R. GARRETT & RENEE A GARRETT, TRUSTEES OF THE GARRETT FAMILY TRUST DATED MARCH 2, 2007	TLE	--	--	--	162
2	KENNETH W. DEQUAINE & BARBARA A. DEQUAINE, HUSBAND & WIFE AS SURVIVOR MARITAL PROPERTY	TLE	--	--	--	380
3	JAMES R. THIEM	TLE	--	--	--	327
4	BOARDWALK PROPERTIES, LLC	TLE	--	--	--	723
5	MARILYN J. EBBEN, A SINGLE PERSON AND ALLEN J. DEGROOT, A SINGLE PERSON, AS JOINT TENANTS	TLE	--	--	--	752
6	ANDREW D. ROBBINS, VENDEE SUBJECT TO LAND CONTRACT WITH MARY CLARE JANZ, VENDOR	TLE	--	--	--	340
7	WOBIN ZHANG & RENWEN YU, HUSABND AND WIFE	TLE	--	--	--	366
8	ROGER L. MAHLER & TAMMY M. VALLEY, AS JOINT TENANTS	TLE	--	--	--	633
9	MICHAEL L. YOUNK	TLE	--	--	--	689
10	NEIGHBORHOOD HOUSING SERVICES OF GREEN BAY, INC., d/b/a NEIGHBORWORKS OF GREEN BAY	TLE	--	--	--	727
11	CLARICE A. KONSHAK	TLE	--	--	--	614
12	DAVID LEMKE & KATHY LEMKE, HUSBAND AND WIFE AS SURVIVORSHIP MARITAL PROPERTY	TLE	--	--	--	737
13	ROBERT J. SMITS, JR. AND JOANNE C. WICKER, AS JOINT TENANTS	TLE	--	--	--	78
14	PAUL R. KNOPE	TLE	--	--	--	729
15	CARLYN H COOPER, A MARRIED PERSON	TLE	--	--	--	609
16	PETER J. RIETVELD, A SINGLE PERSON	TLE	--	--	--	610
17	SUZETTE D. FRANKLIN, A SINGLE PERSON	TLE	--	--	--	565
18	KKB PROPERTIES, LLC AS PURCHASERS IN AN LAND CONTRACT DESCRIBED IN JACKET 26263, IMAGE 12, AS DOCUMENT NO. 1485066	TLE	--	--	--	27



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Web Address: www.msa-ps.com
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I, BRADLEY L TISDALE, 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 OF TRANSPORTATION, I HAVE MAPPED THIS TRANSPORTATION PROJECT PLAT AND SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

SIGNATURE: Bradly Tisdale DATE: 07/14/15
PRINT NAME: BRADLEY L TISDALE
REGISTRATION NUMBER: S–2824

WISCONSIN BRADLEY L. TISDALE S-2824 WAUNAKEE WI LAND SURVEYOR

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE CITY OF DEPERE

SIGNATURE: _____ DATE:
PRINT NAME: _____

84

FILE NAME : P:\90S\93\00093265\CADD\RW\PLINE.DWG
APPRAISAL PLAT DATE : _____
PLOT DATE : 7/14/2015 3:35 PM PLOT BY : BRAD TISDALE PLOT NAME : PLOT SCALE : ##########

4085–42–21 – 4.01

TRANSPORTATION PROJECT PLAT NO: 4085–42–21 – 4.02

THAT PART OF LOTS 51 AND 52 OF BLOCK 38; LOTS 49 AND 50 OF BLOCK 25 OF THE DEPERE COMPANY'S ADDITION TO THE VILLAGE OF WEST DEPERE LOCATED IN PRIVATE CLAIM 28; AND THAT PART OF LOT 2 CSM 5860, VOL 38, PAGE 279, DOC 1679700; PART OF LOT 52 OF BLOCK 38; LOT 51 OF BLOCK 39; LOTS 51, 53, 54 AND 56 OF BLOCK 40 OF THE DEPERE COMPANY'S ADDITION TO THE VILLAGE OF WEST DEPERE LOCATED IN AND INCLUDING PRIVATE CLAIM 27 IN THE CITY OF DEPERE, BROWN COUNTY, WISCONSIN.

RELOCATION ORDER STH 32 (8TH STREET), CITY OF DEPERE, BROWN COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE CITY OF DEPERE 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 62.22, WISCONSIN STATUTES, THE CITY OF DEPERE 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 CITY FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE CITY OF DEPERE, PURSUANT TO THE PROVISIONS OF SECTION 62.22, WISCONSIN STATUTES.

CONVENTIONAL ABBREVIATIONS

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

CURVE DATA

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

CONVENTIONAL SYMBOLS

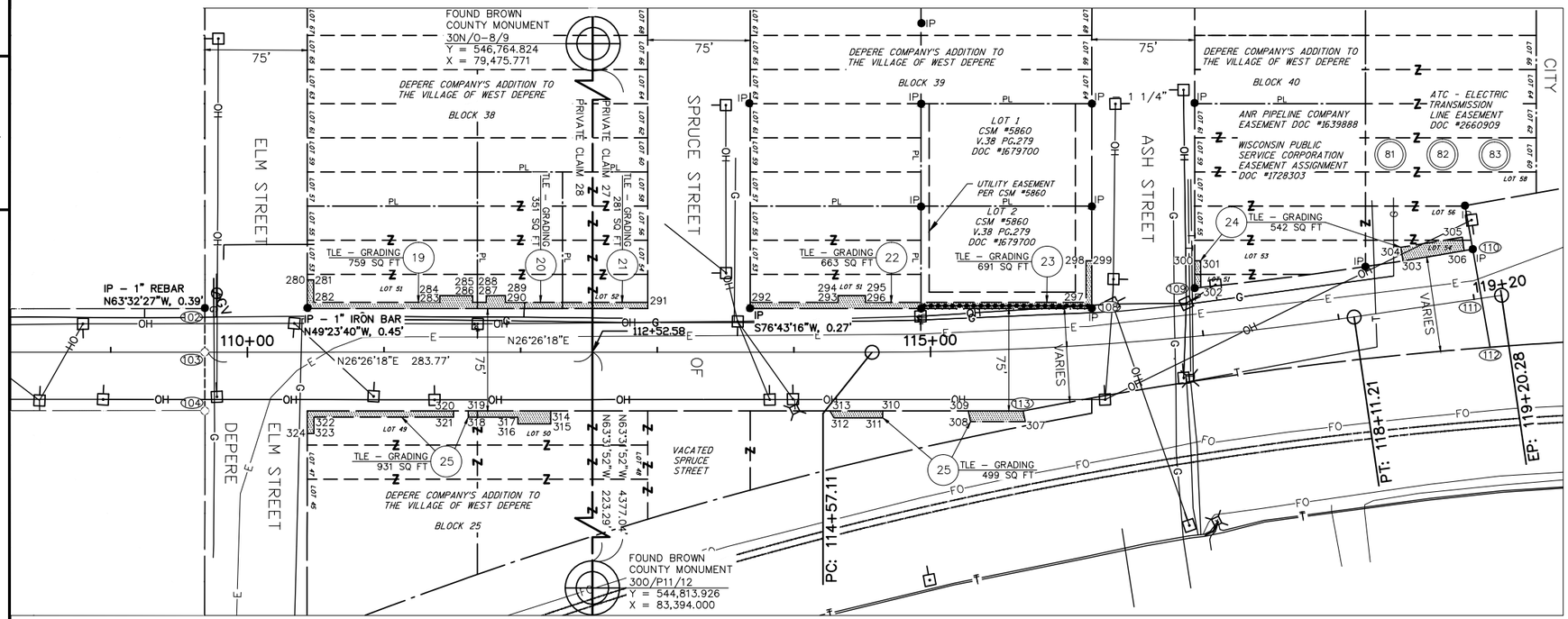
FOUND IRON PIPE/PIN (1" UNLESS NOTED)
R/W MONUMENT ▲(SET)
R/W STANDARD ▲(SET)
SIGN
SECTION CORNER MONUMENT
SECTION CORNER SYMBOL
FEE (HATCH VARIES)
TEMPORARY LIMITED EASEMENT
PERMANENT LIMITED EASEMENT
R/W BOUNDARY POINT
PARCEL NUMBER
UTILITY INTEREST
SIGN NUMBER (OFF PREMISE)
BUILDING

PROPOSED R/W LINE
EXISTING H.E. LINE
PROPERTY LINE
LOT & TIE LINES
SLOPE INTERCEPTS
CORPORATE LIMITS
ACCESS RESTRICTED (BY PREVIOUS ACQUISITION/CONTROL)
ACCESS RESTRICTED (BY ACQUISITION)
NO ACCESS (BY STATUTORY AUTHORITY)
SECTION LINE
QUARTER LINE
SIXTEENTH LINE
EXISTING CENTERLINE
PROPOSED REFERENCE LINE
PARALLEL OFFSET

CONVENTIONAL UTILITY SYMBOLS

WATER	W	
GAS	G	
TELEPHONE	T	
OVERHEAD	OH	
TRANSMISSION LINES 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 4085–42–21 – 4.02
AMENDMENT NO: ___



R/W POINT	STATION	OFFSET		Y	X
102	109+68.82	32.00	L	544,673.614	83,039.121
103	109+68.81	0.00	R	544,659.356	83,067.769
104	109+68.79	43.00	R	544,640.197	83,106.265
108	116+19.92	26.60	L	545,254.914	83,328.164
109	116+97.23	35.27	L	545,329.037	83,348.298
110	119+04.42	36.47	L	545,523.951	83,413.412
111	119+05.49	0.00	R	545,513.653	83,448.415
112	119+06.56	36.36	R	545,503.387	83,483.311
113	115+65.68	45.48	R	545,176.447	83,372.907

CURVE	LENGTH	RADIUS	CHORD BEARING	CHORD DISTANCE
109–110	205.55'	2827.43'	N18°28'22"E	205.50'
112–113	345.27'	2957.20'	N18°39'33"E	345.08'

COURSE	BEARING	DISTANCE
102–108	N26°26'18"E	649.20'
108–109	N15°11'47"E	76.81'
110–111	S73°36'23"E	36.49'
111–112	S73°36'23"E	36.37'
113–104	S26°26'18"W	598.88'
104–103	N63°32'27"W	43.00'
103–102	N63°32'27"W	32.00'

ALIGNMENT INFORMATION

BP = STA 96+99.61
Y = 543,522.897
X = 82,502.681

DA = N26°26'18"E

PI = STA 116+34.48
Y = 545,255.409
X = 83,364.148
DELTA = 8°21'59"
T = 177.36'
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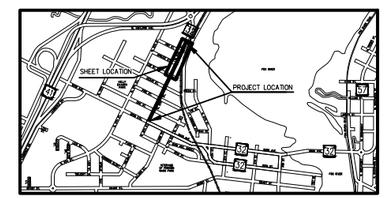
LCB = N22°15'18"E
PC = 114+57.11
PT = 118+11.21

DA = N18°04'19"E

EP = STA 119+20.28
Y = 545,527.712
X = 83,453.002

0 50 100



NOTES:

COORDINATES AND BEARINGS SHOWN ON THIS PLAT ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM, BROWN COUNTY ZONE, NAD83 (1991) ADJUSTMENT. THE COORDINATES SHOWN ARE GRID COORDINATES AND ARE TO BE USED AS GRID OR GROUND VALUES ON THIS PLAT.

RIGHT–OF–WAY MONUMENTS ARE TYPE 2 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.

EXISTING HIGHWAY RIGHT–OF–WAY SHOWN HEREIN IS BASED ON THE FOLLOWING POINTS OF REFERENCE:
WISDOT HIGHWAY PLAT – PROJECT F 060–1(2)
WISDOT HIGHWAY PLAT – PROJECT T3147 (1)
WISDOT TRANSPORTATION PROJECT PLAT NO: 4085–26–21
WISDOT TRANSPORTATION PROJECT PLAT NO: 4085–26–22
DEPERE COMPANY'S ADDITION TO THE VILLAGE OF DEPERE
CSM NO. 8187, DOCUMENT NO. 2556558
CSM NO. 5860, DOCUMENT NO. 1679700
EXISTING HIGHWAY RIGHT–OF–WAY FOR SIDE ROADS ESTABLISHED FROM DEPERE COMPANY'S ADDITION TO THE VILLAGE OF WEST DEPERE.

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.

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

TLE POINT	STATION	OFFSET		TLE POINT	STATION	OFFSET	
280	110+43.83	53.00	L	303	118+52.68	35.43	L
281	110+48.57	53.00	L	304	118+52.51	45.43	L
282	110+48.57	36.50	L	305	118+98.01	46.22	L
283	111+40.85	36.50	L	306	118+97.90	36.29	L
284	111+40.85	41.50	L	307	115+66.94	53.36	R
285	111+64.85	41.50	L	308	115+27.79	51.86	R
286	111+64.85	36.50	L	309	115+26.40	44.00	R
287	111+74.90	36.50	L	310	114+64.94	43.00	R
288	111+74.90	41.50	L	311	114+64.93	48.00	R
289	111+88.90	41.50	L	312	114+29.38	48.00	R
290	111+88.90	36.50	L	313	114+26.47	43.00	R
291	112+93.02	36.50	L	314	112+22.03	43.00	R
292	113+68.02	36.50	L	315	112+22.03	52.50	R
293	114+32.41	36.50	L	316	111+98.03	52.50	R
294	114+32.41	41.50	L	317	111+98.03	47.50	R
295	114+52.41	41.50	L	318	111+61.66	47.50	R
296	114+52.41	36.50	L	319	111+61.66	43.00	R
297	116+15.97	31.37	L	320	111+50.77	43.00	R
298	116+18.02	61.77	L	321	111+50.77	47.50	R
299	116+22.34	61.49	L	322	110+48.63	47.50	R
300	116+99.26	55.21	L	323	110+48.63	59.50	R
301	117+03.68	54.79	L	324	110+43.78	59.50	R
302	117+01.73	35.28	L				

UTILITY NUMBER	PARCEL AFFECTED	OWNER(S)	INTEREST REQUIRED
81	24	AMERICAN TRANSMISSION COMPANY, LLC	RELEASE OF RIGHTS
82	24	ANR PIPELINE COMPANY	RELEASE OF RIGHTS
83	24	WISCONSIN PUBLIC SERVICE CORPORATION	RELEASE OF RIGHTS

SCHEDULE OF LANDS & INTERESTS REQUIRED

OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERESTS TO THE DEPARTMENT.

PARCEL NUMBER	OWNER(S)	INTEREST REQUIRED	R/W SQ FT REQUIRED NEW	EXISTING	TOTAL	TLE SQ FT
19	EMIL O. SCHULTZ	TLE	--	--	--	759
20	TRAVIS J. MCAVOY	TLE	--	--	--	351
21	PHYLLIS R HENDRICKS	TLE	--	--	--	281
22	JOHN W MARRICK	TLE	--	--	--	663
23	KARL D WACHHOLZ	TLE	--	--	--	691
24	F&O PARTNERSHIP, LLP, A WISCONSIN LIMITED LIABILITY PARTNERSHIP	TLE	--	--	--	542
25	CARLYN H COOPER, A MARRIED PERSON	TLE	--	--	--	1430

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I, BRADLEY L TISDALE, 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 OF TRANSPORTATION, I HAVE MAPPED THIS TRANSPORTATION PROJECT PLAT AND SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

SIGNATURE: Bradley L Tisdale DATE: 07/14/15
PRINT NAME: BRADLEY L TISDALE
REGISTRATION NUMBER: S-2824

WISCONSIN BRADLEY L. TISDALE S-2824 WAUNAKEE WI LAND SURVEYOR

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE CITY OF DEPERE

SIGNATURE: _____ DATE:
PRINT NAME:

85

FILE NAME : P:\90S\93\00093265\CADD\RW\PLINE.DWG
APPRAISAL PLAT DATE : _____
PLOT DATE : 7/14/2015 3:36 PM PLOT BY : BRAD TISDALE PLOT NAME : PLOT SCALE : ##########

4085–42–21 – 4.02

APPROXIMATE ASPHALTIC MATERIAL LIMITS. REMOVAL OF ASPHALTIC MATERIAL INCLUDING PAVEMENT, SIDEWALK AND CURB TO BE PAID FOR UNDER THE EXCAVATION COMMON BID ITEM.

BEGIN PROJECT 4085-42-71
STA. 98+50.00
Y = 543,657.56
X = 82,569.64

MAIN AVENUE (WIS 32)

N. 8TH STREET (WIS 32)

SANITARY: CITY OF DE PERE

OVERHEAD: TIME WARNER
OVERHEAD: AT&T
ELECTRIC: WISCONSIN PUBLIC SERVICE

EXISTING R/W

SAWCUT REQ'D.

P.E. STA 98+54, RT
8' CONCRETE
DRIVEWAY REQ'D

P.E. STA 99+55, LT
24' CONCRETE
DRIVEWAY APRON REQ'D

TELEPHONE: AT&T

CLEARING AND GRUBBING
6-INCH DIA.

CLEARING AND GRUBBING
12-INCH DIA.

N26°26'18.15"E

BP: 20+11.47

SLOPE INTERCEPTS (TYP.)

STA. 100+31.51=
STA. 21+00.00
Y = 543,820.09
X = 82,650.46

BM #2

OAK STREET

EP: 21+97.71

KENNETH AND
BARBARA DEQUAINE
203 N. 8TH ST.

JAMES R. THIEM
209 N. 8TH ST.

P.I. = STA. 101+19.63
Y = 543,898.99
X = 82,689.69
Δ = 03°44'58.58"

CLEARING AND GRUBBING
16-INCH DIA.

CLEARING AND GRUBBING
12-INCH DIA.

GAS:
WISCONSIN PUBLIC SERVICE

P.E. STA 101+37, LT
10' CONCRETE
DRIVEWAY REQ'D

P.I. 101+19.63

STORM: CITY OF DE PERE

N30°11'16.73"E

WATER: CITY OF DE PERE

MATCHLINE STA. 102+30

CLEARING AND GRUBBING
12-INCH DIA.

OVERHEAD: ATC

CLEARING AND GRUBBING
(BY OTHERS PRIOR TO CONSTRUCTION)

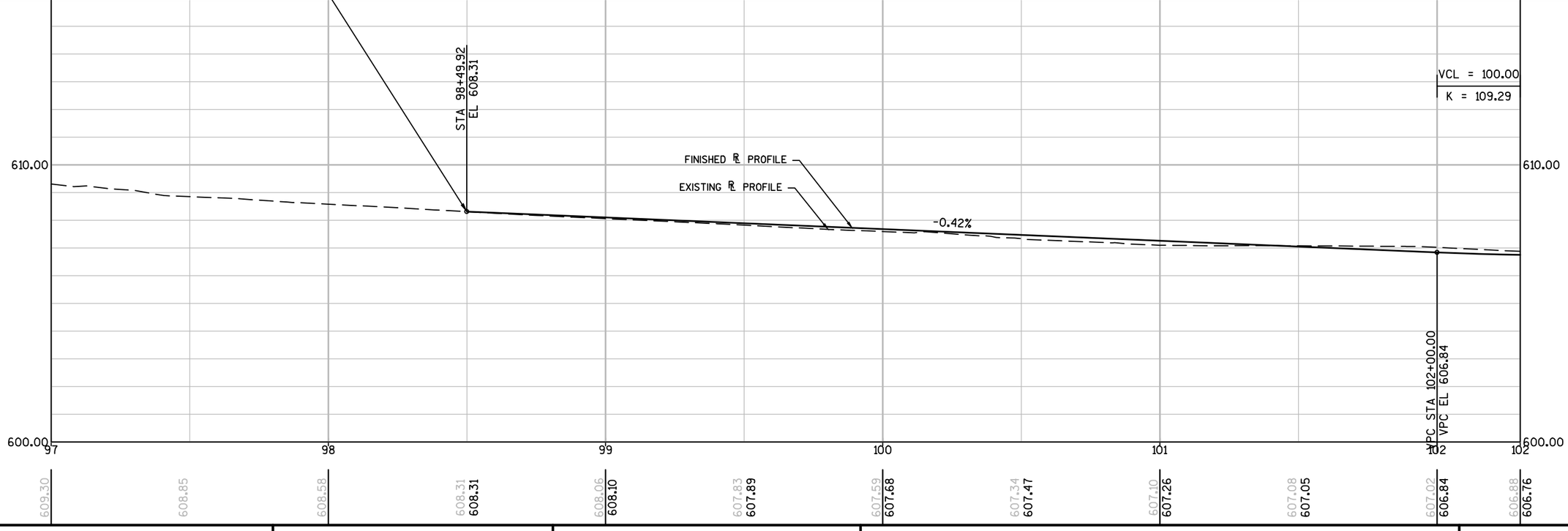
CLEARING AND GRUBBING
20-INCH DIA.

P.I. = STA. 102+26.61
Y = 543,991.46
X = 82,743.48
Δ = 03°44'59.76"

KKB PROPERTIES LLC
746 MAIN AVE.

SUZETTE D FRANKLIN
749 OAK ST.

BENCH MARKS				
NO.	STA.	DESCRIPTION	OFFSET	ELEV.
1	96+00.0	RR SPIKE IN NORTH SIDE POLE	20.4' LT	611.26
2	100+57.3	RR SPIKE IN SE SIDE OF POLE	22.9' LT	608.17



PROJECT NO: 4085-42-71	HWY: WIS 32 (8TH STREET)	COUNTY: BROWN	PLAN AND PROFILE: N. 8TH STREET (WIS 32)	SHEET 86	E

FILE NAME : P:\90S\93\00093265\CADD\DESIGN\ALIPROFS\ALIPROFS.DWG
LAYOUT NAME - ALIPROFS - (50101)-PP

PLOT DATE : 7/13/2016 3:59 PM PLOT BY : JASON DOLENS PLOT NAME : PLOT SCALE : 1:40_XREF

BENCH MARKS				
NO.	STA.	DESCRIPTION	OFFSET	ELEV.
3	103+85.0	RR SPIKE SET IN NW SIDE POLE	27.5' RT	608.39

MARILYN J. EBBEN AND ALLEN DEGROOT
301 N. 8TH ST.

ANDREW D. ROBBINS
311 N. 8TH ST.

WOBIN ZHANG AND RENWEN YU
309 N. 8TH ST.

ROGER MAHLER AND TAMMY VALLEY
802 CEDAR ST.

BOARDWALK PROPERTIES, LLC
219 N. 8TH ST.

CAROLYN H COOPER
218 N. EIGHTH ST.

PAUL R KNOPE
746 PINE ST.

DAVID AND KATHY LEMKE
745 CEDAR ST.

CLARICE A. KONSHAK
404 N. EIGHTH ST.

N

BP: 40+10.91

EP: 31+90.60

EP: 41+96.49

P.E. STA 102+40, LT
20' CONCRETE
DRIVEWAY REQ'D

P.E. STA 104+89, LT
25' CONCRETE
DRIVEWAY REQ'D

P.E. STA 105+30, LT
14' CONCRETE
DRIVEWAY REQ'D

CLEARING AND GRUBBING
12-INCH DIA.

CLEARING AND GRUBBING
14-INCH DIA.

GRUBBING 12-INCH DIA.

TIME WARNER: OVERHEAD
AT&T: OVERHEAD
WISCONSIN PUBLIC SERVICE: ELECTRIC

GAS: WISCONSIN PUBLIC SERVICE

STORM: CITY OF DE PERE

SANITARY: CITY OF DE PERE

OVERHEAD: ATC

WATER: CITY OF DE PERE

SANITARY: GREEN BAY METRO
SEWERAGE DISTRICT

(ADJUSTED BY OTHERS)

SLOPE INTERCEPTS (TYP.)

P.E. STA 104+61, RT
16' CONCRETE
DRIVEWAY REQ'D

P.E. STA 105+02, RT
22' CONCRETE
DRIVEWAY REQ'D

P.E. STA 105+41, RT
24' CONCRETE
DRIVEWAY REQ'D

PI: 102+26.61

PI: 104+20.43

PI: 105+27.42

STA. 106+82.00=
STA. 41+00.00
Y = 544,402.13
X = 82,939.86

STA. 103+56.28=
STA. 31+00.00
Y = 544,107.57
X = 82,801.22

P.I. = STA. 104+20.43
Y = 544,165.01
X = 82,829.78
Δ = 03°44'57.75"

P.I. = STA. 105+27.42
Y = 544,263.72
X = 82,871.04
Δ = 03°44'58.20"

BM #3

MATCHLINE STA. 102+30

MATCHLINE STA. 108+30

N. 8TH STREET (WIS 32)

PINE STREET

CEDAR STREET

EXISTING R/W

TLE

CAUTION

N22°41'19.22"E

N26°26'16.97"E

N26°26'17.42"E

103+00

104+00

105+00

106+00

107+00

108+00

31+00

41+00

VCL = 100.00
K = 109.29

VCL = 100.00
K = 99.48

VCL = 200.00
K = 200.02

VPC STA 104+00.00
VPC EL 607.37

VPI STA 105+00.00
VPI EL 607.868

VPT STA 106+00.00
VPT EL 607.36

VPI STA 102+50.00
VPI EL 606.63

VPT STA 103+00.00
VPT EL 606.88

VPC STA 107+20.00
VPC EL 606.76

VPI STA 107+70.00
VPI EL 606.50

VPT STA 108+20.00
VPT EL 606.76

FINISHED ℄ PROFILE

EXISTING ℄ PROFILE

0.50%

-0.50%

610.00

600.00

102 103 104 105 106 107 108

606.88 606.76 606.86 606.74 606.91 606.88 607.19 607.13 607.38 607.37 607.54 607.56 607.54 607.62 607.50 607.55 607.43 607.36 607.29 607.11 607.09 606.86 607.01 606.65 607.00 606.68 607.05 606.81

PROJECT NO: 4085-42-71	HWY: WIS 32 (8TH STREET)	COUNTY: BROWN	PLAN AND PROFILE: N. 8TH STREET (WIS 32)	SHEET 87	E

FILE NAME : P:\90S\93\00093265\CADD\DESIGN\ALIPROFS\ALIPROFS.DWG
LAYOUT NAME - ALIPROFS - (50102)-PP

PLOT DATE : 7/13/2016 3:59 PM PLOT BY : JASON DOLENS PLOT NAME : PLOT SCALE : 1:40_XREF

BENCH MARKS				
NO.	STA.	DESCRIPTION	OFFSET	ELEV.
4	113+21.0	SW CORNER OF STEP	42.1' RT	610.13

BP: 50+10.92

EMIL O. SCHULTZ
804 ELM ST.

TRAVIS J. MCAVOY
511 N. 8TH ST.

PHYLLIS R. HENDRICKS
803 SPRUCE ST.

BP: 60+10.01

SPRUCE STREET

MICHAEL L. YOUNK
801 ELM ST.

P.E. STA 109+01, LT
25' CONCRETE
DRIVEWAY REQ'D

STA. 110+06.02=
STA. 51+00.00
Y = 544,692.27
X = 83,084.13

OVERHEAD: TIME WARNER
OVERHEAD: AT&T
ELECTRIC: WISCONSIN PUBLIC SERVICE
BURIED HP GAS FILLED ELECTRIC: ATC

P.E. STA 111+53, LT
24' CONCRETE
DRIVEWAY REQ'D

P.E. STA 111+82, LT
14' CONCRETE
DRIVEWAY REQ'D

GAS: WISCONSIN PUBLIC SERVICE

STA. 113+31.15=
STA. 61+00.00
Y = 544,983.39
X = 83,228.89

WOOD FENCE/
LANDSCAPING

STORM: CITY OF DE PERE

MATCHLINE STA. 108+30

MATCHLINE STA. 114+30

AT&T

N. 8TH STREET (WIS 32)

SANITARY: CITY OF DE PERE

CATHOLIDIC TEST STATION: ATC

N26°26'17.42"E

EP: 61+00.00

WATER: CITY OF DE PERE

CONCRETE STEPS

BM #4

(ADJUSTED BY OTHERS)

OVERHEAD: ATC

P.E. STA 108+68, RT
22' CONCRETE
DRIVEWAY REQ'D

SANITARY: GREEN BAY METRO
SEWERAGE DISTRICT

CATHOLIDIC TEST STATION: ATC

SLOPE INTERCEPTS (TYP.)

STA 111+69, RT
REMOVE 30'
CONCRETE DRIVEWAY

C.E. STA 112+10, RT
24' CONCRETE
DRIVEWAY REQ'D

C.E. STA 112+77, RT
20' CONCRETE
DRIVEWAY REQ'D

CONCRETE STEPS

CONCRETE STEPS

8TH STREET DP, LLC, A WISCONSIN
LIMITED LIABILITY COMPANY
516 N 8TH ST.

SUBJECT TO EXCEPTIONS AND
RESERVATIONS AS SET FORTH IN DEEDS
83282 AND 71776. BASICALLY RR HAS CONDITIONS
ABOUT UTILITIES, GRADING AND FENCES.

NEIGHBORHOOD HOUSING SERVICES OF
GREEN BAY, INC., D/B/A NEIGHBORWORKS
GREEN BAY
747-749 ELM ST.

ELM STREET

EP: 51+96.13

VPC STA 109+25.00
VPC EL 607.28

VPI STA 109+75.00
VPI EL 607.531

VPT STA 110+25.00
VPT EL 607.28

VCL = 100.00
K = 95.62

VCL = 100.00
K = 99.71

VPC STA 110+50.00
VPC EL 607.15

VPI STA 111+00.00
VPI EL 606.90

VPT STA 111+50.00
VPT EL 607.17

FINISHED ℄ PROFILE

EXISTING ℄ PROFILE

0.50%

-0.50%

610.00

600.00

108 109 110 111 112 113 114

607.05	606.81	607.12	606.91	607.33	607.16	607.41	607.37	607.38	607.37	607.32	607.15	607.20	607.03	607.20	607.17	607.54	607.45	607.85	607.72	608.41	607.99	608.84	608.26	608.94	608.53	608.93	608.70

PROJECT NO: 4085-42-71	HWY: WIS 32 (8TH STREET)	COUNTY: BROWN	PLAN AND PROFILE: N. 8TH STREET (WIS 32)	SHEET 88	E

JOHN W. MARRICK
802 SPRUCE ST.

KARL D.
WACHHOLZ
803 ASH ST.

F & O PARTNERSHIP LLP
806 ASH ST.

ASH STREET

BP: 69+91.15

P.I. = STA. 116+34.62
Y = 545,255.41
X = 83,364.15
Δ = 08°21'58.68"
R = 2,425.00'
L = 354.10'
T = 177.36'
P.C. = STA. 114+57.57
P.T. = STA. 118+11.67

P.E. STA 114+43, LT
20' CONCRETE
DRIVEWAY REQ'D

OVERHEAD: TIME WARNER
OVERHEAD: AT&T
ELECTRIC: WISCONSIN PUBLIC SERVICE

BURIED HP GAS FILLED ELECTRIC: ATC

114+57.57

TLE

EXISTING R/W

CAUTION

MATCHLINE STA. 114+30

N26°26'17.42"E

115+00

116+00

STORM: CITY OF DE PERE

WATER: CITY OF DE PERE

EP: 71+00.00

117+00

118+00

PT: 118+11.67

GAS: WISCONSIN PUBLIC SERVICE

P.E. STA 118+71, LT
36' CONCRETE
DRIVEWAY REQ'D

REMOVING ASPHALTIC SURFACE

EP: 119+20.74
Y = 545,527.71
X = 83,453.00

119+00

N18°04'18.87"E

SAWCUT REQ'D.

N. 8TH STREET (WIS 32)

C.E. STA 114+47, RT
35' CONCRETE
DRIVEWAY REQ'D

REMOVING PAVEMENT

C.E. STA 115+44, RT
35' CONCRETE
DRIVEWAY REQ'D

OVERHEAD: ATC

SANITARY: GREEN BAY
METRO SEWERAGE DISTRICT

REMOVING ASPHALTIC SURFACE

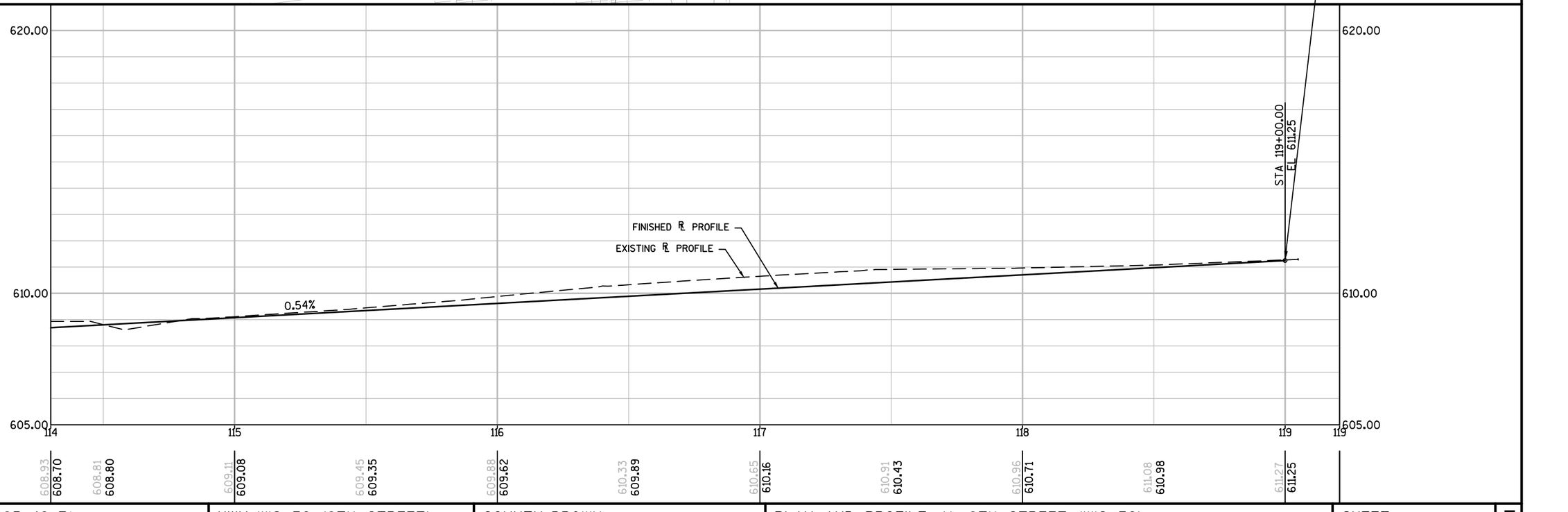
STA. 116+56.34=
STA. 71+00.00
Y = 545,278.00
X = 83,366.29

REMOVING ASPHALTIC SURFACE

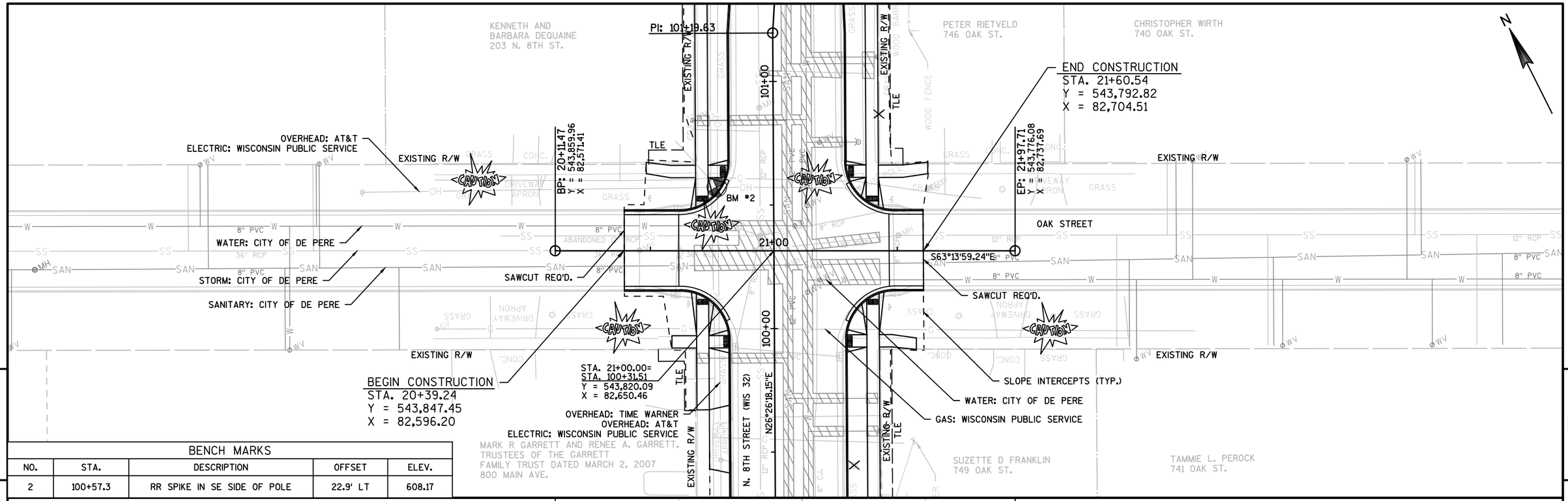
TELEPHONE: AT&T

SLOPE INTERCEPTS (TYP.)

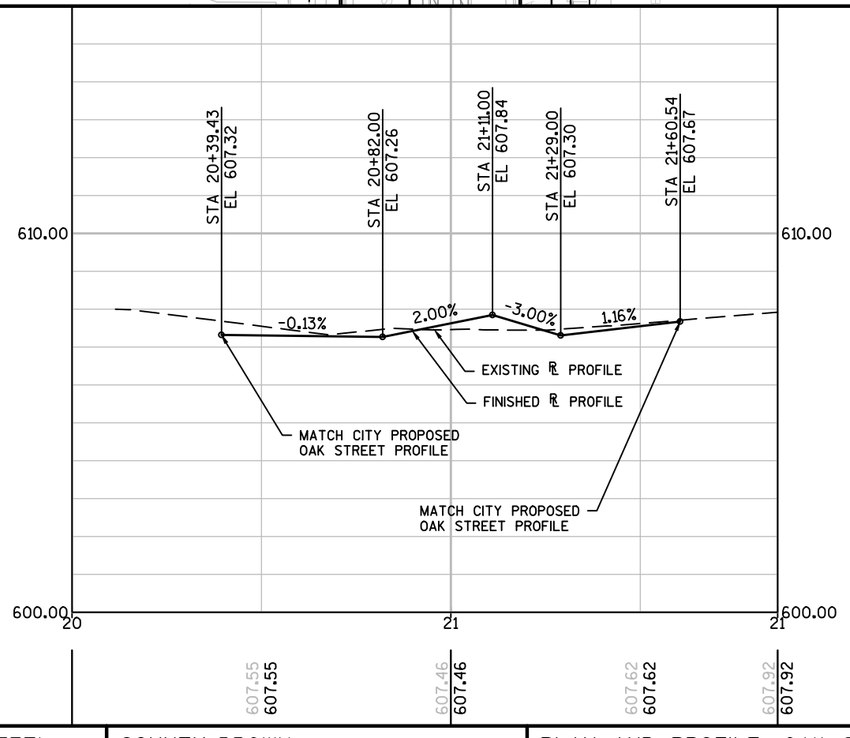
END PROJECT 4085-42-71
STA. 119+00.00
Y = 545,508.00
X = 83,446.57



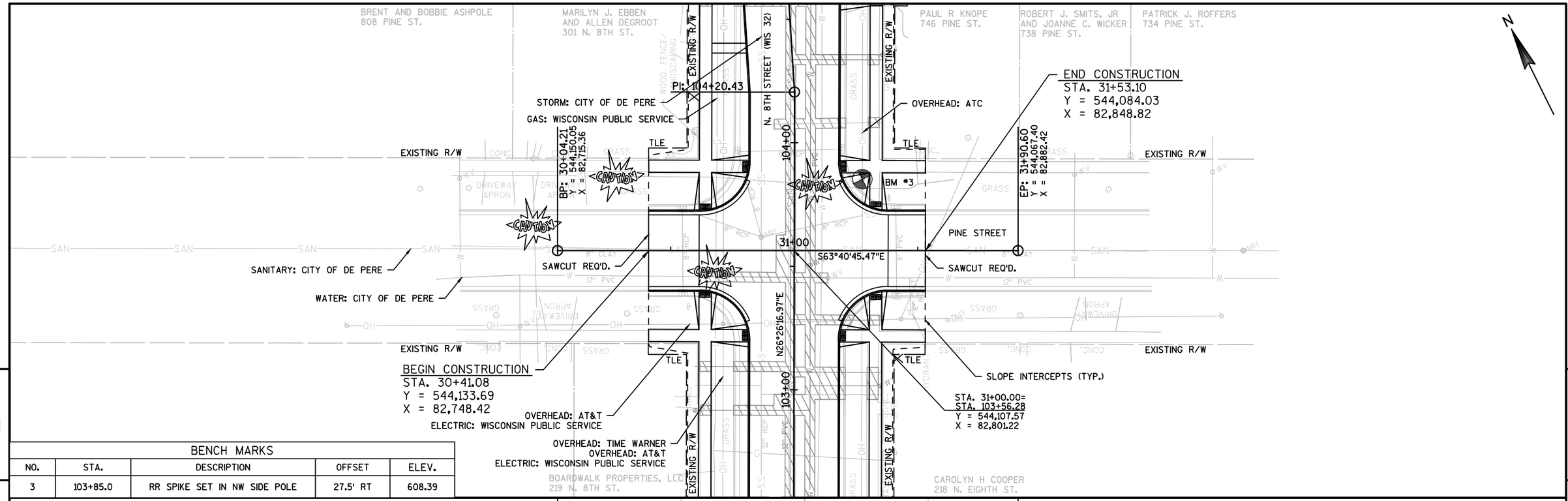
PROJECT NO: 4085-42-71	HWY: WIS 32 (8TH STREET)	COUNTY: BROWN	PLAN AND PROFILE: N. 8TH STREET (WIS 32)	SHEET 89	E



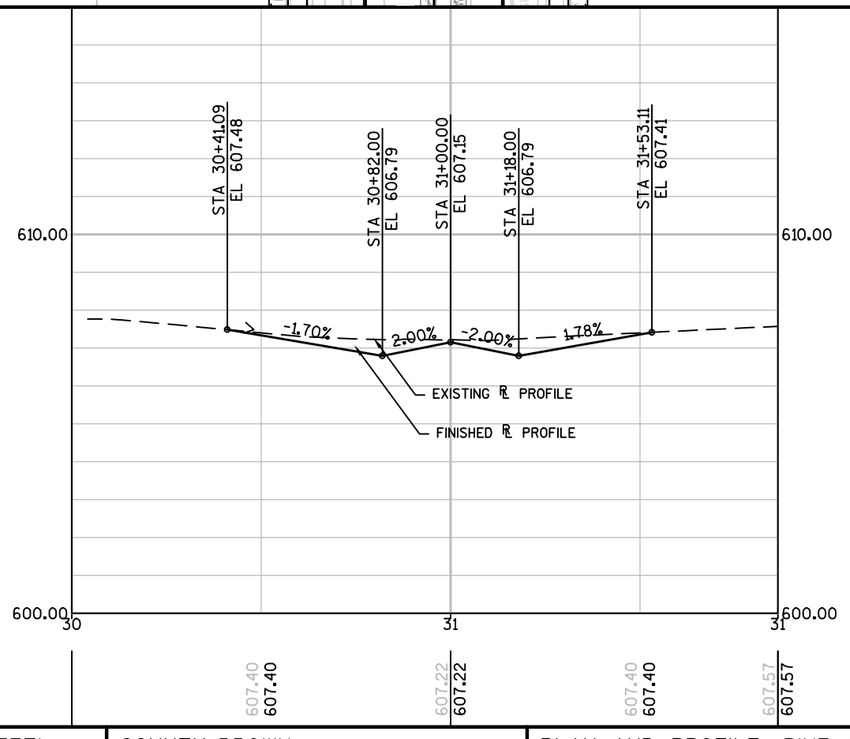
BENCH MARKS				
NO.	STA.	DESCRIPTION	OFFSET	ELEV.
2	100+57.3	RR SPIKE IN SE SIDE OF POLE	22.9' LT	608.17



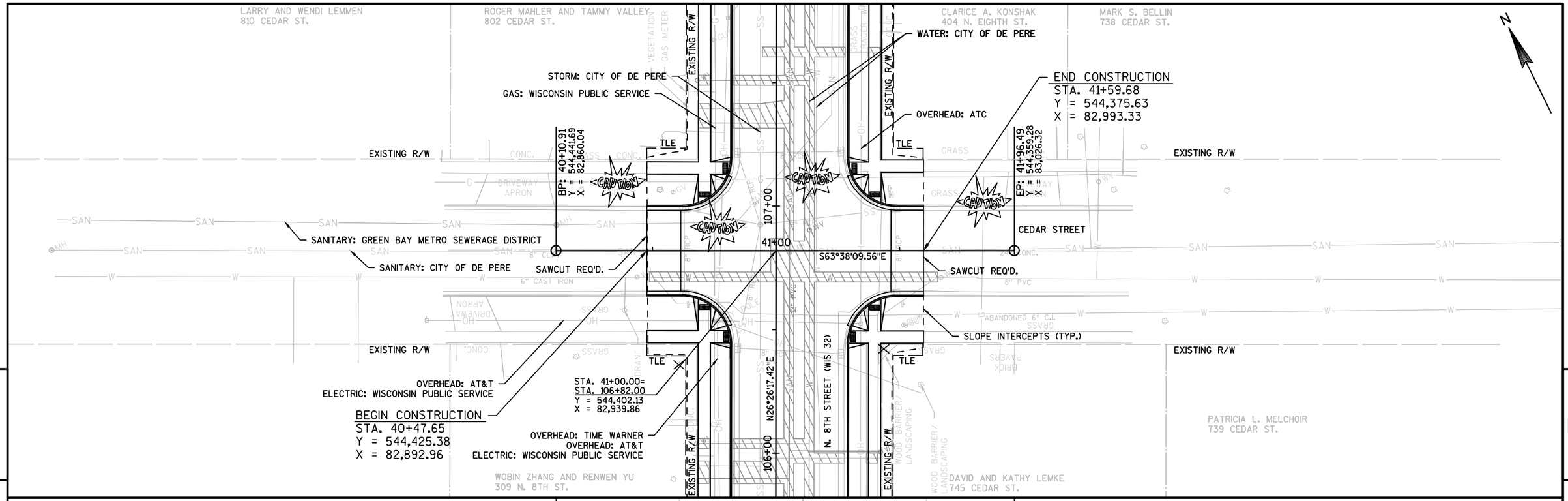
PROJECT NO: 4085-42-71	HWY: WIS 32 (8TH STREET)	COUNTY: BROWN	PLAN AND PROFILE: OAK STREET	SHEET 90 E

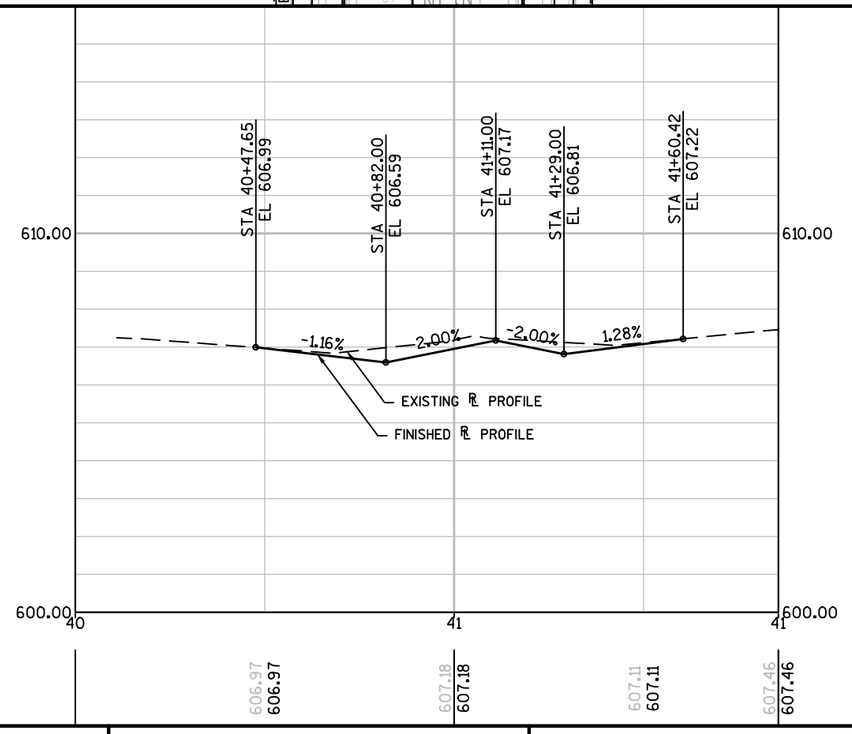


BENCH MARKS				
NO.	STA.	DESCRIPTION	OFFSET	ELEV.
3	103+85.0	RR SPIKE SET IN NW SIDE POLE	27.5' RT	608.39

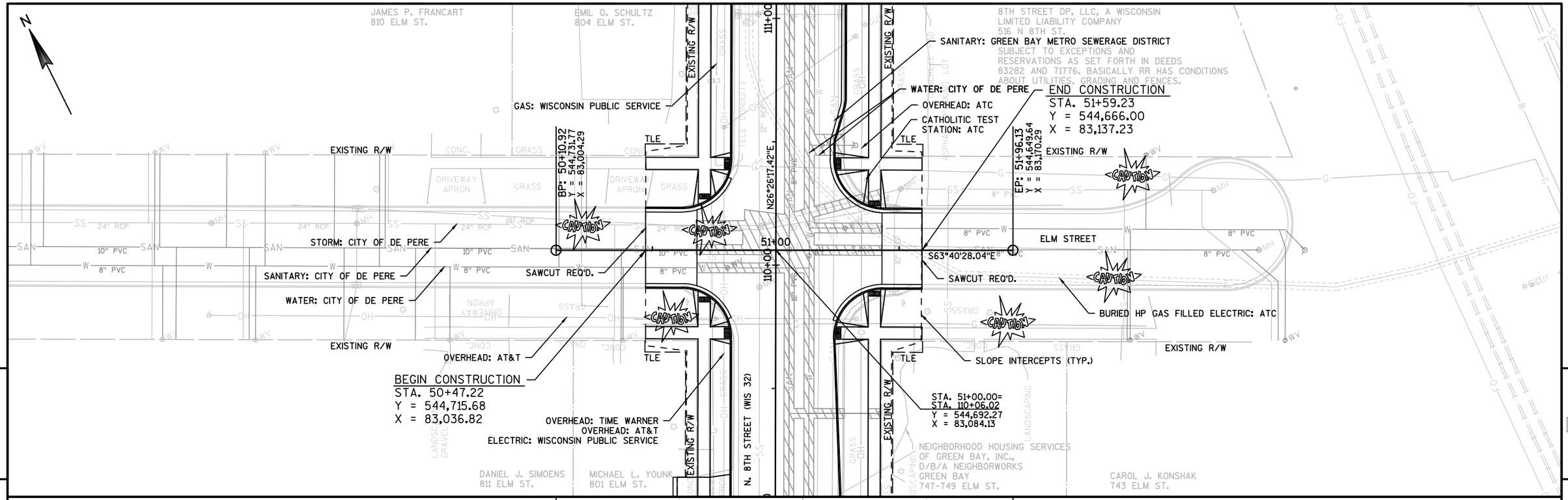


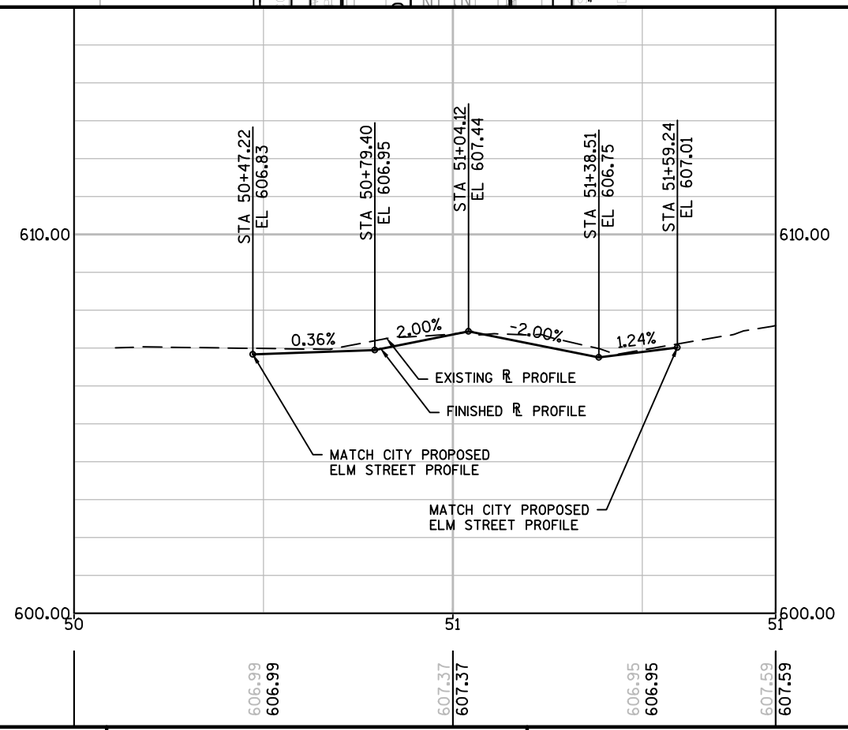
PROJECT NO: 4085-42-71	HWY: WIS 32 (8TH STREET)	COUNTY: BROWN	PLAN AND PROFILE: PINE STREET	SHEET 91 E





PROJECT NO: 4085-42-71	HWY: WIS 32 (8TH STREET)	COUNTY: BROWN	PLAN AND PROFILE: CEDAR STREET	SHEET 92	E





PROJECT NO: 4085-42-71	HWY: WIS 32 (8TH STREET)	COUNTY: BROWN	PLAN AND PROFILE: ELM STREET	SHEET 93	E

FILE NAME : P:\90S\93\00093265\CADD\DESIGN\ALIPROFS\ALIPROFS.DWG
LAYOUT NAME - ALIPROFS - (50108)-PP

PLOT DATE : 7/13/2016 4:01 PM PLOT BY : JASON DOLENS PLOT NAME : PLOT SCALE : 1:40_XREF

CHRISTOPHER T. FUSS
810 SPRUCE ST.

JOHN W. MARRICK
802 SPRUCE ST.

BURIED HP GAS FILLED ELECTRIC: ATC

STORM: CITY OF DE PERE

GAS: WISCONSIN PUBLIC SERVICE

SANITARY: GREEN BAY METRO SEWERAGE DISTRICT

SLOPE INTERCEPTS (TYP.)

OVERHEAD: TIME WARNER
OVERHEAD: AT&T
ELECTRIC: WISCONSIN PUBLIC SERVICE

EXISTING R/W

STORM: CITY OF DE PERE

SANITARY: CITY OF DE PERE

SPRUCE STREET

WATER: CITY OF DE PERE

EXISTING R/W

BP: 60+10.01
Y = 545,023.35
X = 83,148.25

EP: 61+00.00
Y = 544,983.39
X = 83,228.89

S63°38'26.67"E

SAWCUT REQ'D.

114+00

TLE

CAUTION

OVERHEAD: ATC

BM #4

8TH STREET DP, LLC, A WISCONSIN
LIMITED LIABILITY COMPANY
516 N 8TH ST.

SUBJECT TO EXCEPTIONS AND
RESERVATIONS AS SET FORTH IN DEEDS
83282 AND 71776. BASICALLY RR HAS CONDITIONS
ABOUT UTILITIES, GRADING AND FENCES.

N. 8TH STREET (WIS 32)

BEGIN CONSTRUCTION
STA. 60+46.84
Y = 545,007.00
X = 83,181.25

STA. 61+00.00=
STA. 113+31.15
Y = 544,983.39
X = 83,228.89

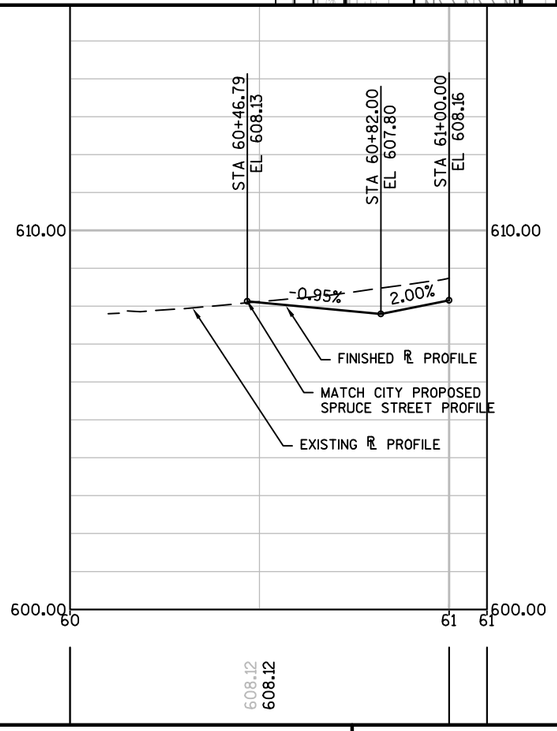
OVERHEAD: AT&T
ELECTRIC: WISCONSIN PUBLIC SERVICE

N26°26'17.42"E

JESSE L. CHOPIN
811 SPRUCE ST.

PHYLLIS R. HENDRICKS
803 SPRUCE ST.

BENCH MARKS				
NO.	STA.	DESCRIPTION	OFFSET	ELEV.
4	113+21.0	SW CORNER OF STEP	42.1' RT	610.13



PROJECT NO: 4085-42-71	HWY: WIS 32 (8TH STREET)	COUNTY: BROWN	PLAN AND PROFILE: SPRUCE STREET	SHEET 94 E

F & O PARTNERSHIP LLP
806 ASH ST.

BURIED HP GAS FILLED ELECTRIC: ATC

SANITARY: GREEN BAY METRO SEWERAGE DISTRICT

TELEPHONE: AT&T

GAS: WISCONSIN PUBLIC SERVICE

OVERHEAD: AT&T

EXISTING R/W

BP: 69+91.15
Y = 545,326.92
X = 83,269.05

TLE

CAUTION

ASH STREET

70+00

S63°17'48.39"E

SANITARY: CITY OF DE PERE

SAWCUT REQ'D.

WATER: CITY OF DE PERE

EXISTING R/W

OVERHEAD: AT&T
ELECTRIC: WISCONSIN PUBLIC SERVICE

BEGIN CONSTRUCTION
STA. 70+41.15
Y = 545,304.45
X = 83,313.71

OVERHEAD: TIME WARNER
OVERHEAD: AT&T
ELECTRIC: WISCONSIN PUBLIC SERVICE

STORM: CITY OF DE PERE

KARL D. WACHHOLZ
803 ASH ST.

N18°04'18.87"E

117+00

EP: 71+00.00
Y = 545,278.00
X = 83,366.29

STA. 71+00.00=
STA. 116+56.34
Y = 545,278.00
X = 83,366.29

SLOPE INTERCEPTS (TYP.)

ABANDONED 8" C.I.

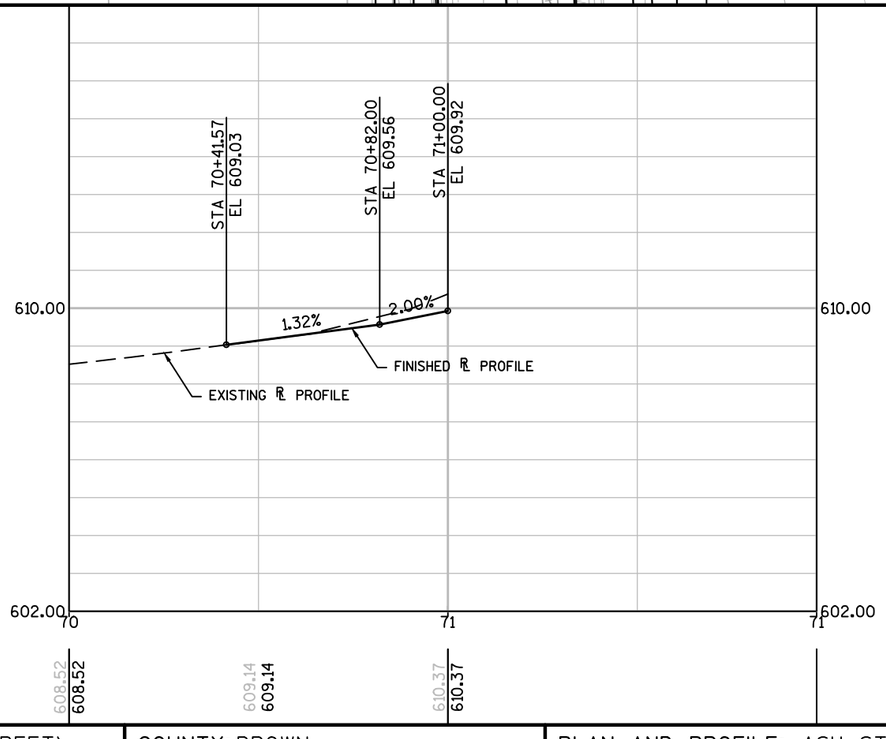
PL

116+00

N26°26'17.42"E

N. 8TH STREET (WIS 32)

OVERHEAD: ATC

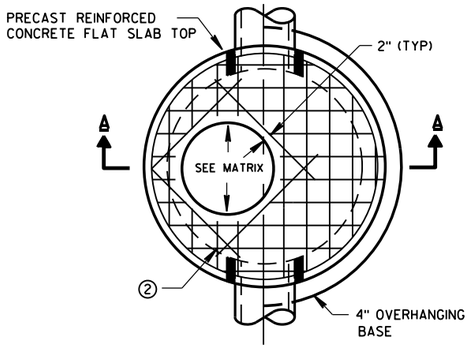


PROJECT NO: 4085-42-71	HWY: WIS 32 (8TH STREET)	COUNTY: BROWN	PLAN AND PROFILE: ASH STREET	SHEET 95 E

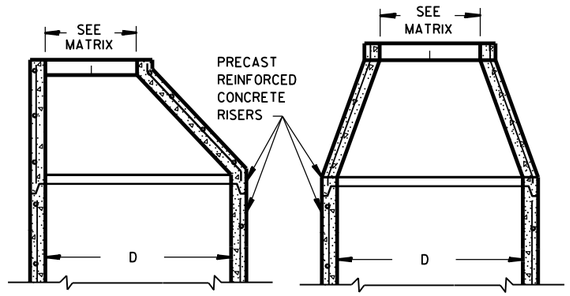
Standard Detail Drawing List

08B09-01	MANHOLES 3-FT, 4-FT, 5-FT, 6-FT, 7-FT AND 8-FT DIAMETER
08C06-01	INLETS 3-FT AND 4-FT DIAMETER
08C07-01	INLETS 2X2-FT, 2X2.5-FT, 2X3-FT AND 2.5X3-FT
08C08-01	INLETS MEDIAN 1 AND 2 GRATE
08D01-18	CONCRETE CURB, CONCRETE CURB AND GUTTER AND TIES
08D05-17A	CURB RAMPS TYPES 1 AND 1-A
08D05-17B	CURB RAMPS TYPES 2 AND 3
08D05-17C	CURB RAMPS TYPES 4A AND 4A1
08D05-17D	CURB RAMPS TYPE 4B AND 4B1
08D05-17E	CURB RAMPS TYPES 5, 6, 7A, 7B & 8
08E09-06	SILT FENCE
08E10-02	INLET PROTECTION TYPE A, B, C AND D
08E14-01	TRACKING PAD
08F04-07	JOINT TIES FOR CONCRETE PIPE AND CONCRETE COLLAR DETAIL
09B02-09	CONDUIT
09B04-11	PULL BOX
09C02-07	CONCRETE BASES, TYPES 1, 2, 5, & 6
09C03-04	TRANSFORMER/PEDESTAL BASES
09C14-02	CONCRETE CONTROL CABINET BASE, TYPE L
09D01-05	CABINET SERVICE INSTALLATION (METER BREAKER PEDESTAL)
09D04-02	LIGHTING CONTROL CABINET 120/240 VOLT
09E01-14D	POLE MOUNTINGS FOR LIGHTING UNITS, TYPE 5 (30 FEET)
09E01-14G	HARDWARE DETAILS FOR POLE MOUNTINGS
09E03-05	NON-FREEWAY LIGHTING UNIT POLE WIRING
13C01-18	CONCRETE PAVEMENT LONGITUDINAL JOINTS AND TIES
13C13-08	URBAN DOWELED CONCRETE PAVEMENT
13C18-03A	CONCRETE PAVEMENT JOINTING
13C18-03B	CONCRETE PAVEMENT STEEL REINFORCEMENT
13C18-03C	CONCRETE PAVEMENT JOINT TIES
13C18-03D	CONCRETE PAVEMENT JOINTING AT UTILITY FIXTURES
14A02-01	TREE PLANTING DETAIL
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
15C07-13B	PAVEMENT MARKING WORDS
15C07-13C	PAVEMENT MARKING ARROWS
15C07-13E	PAVEMENT MARKING FOR BIKE LANES
15C08-16A	PAVEMENT MARKING (MAINLINE)
15C08-16E	PAVEMENT MARKING (LEFT TURN LANE)
15C29-04A	BICYCLE LANE MARKING
15C33-02	STOP LINE AND CROSSWALK PAVEMENT MARKING
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

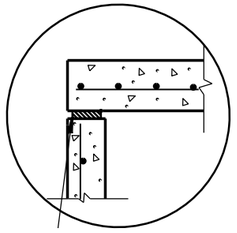


PLAN VIEW CIRCULAR OPENING

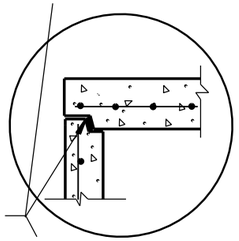


OPTIONAL PRECAST REINFORCED CONCRETE ECCENTRIC TOP

OPTIONAL PRECAST REINFORCED CONCRETE CONCENTRIC TOP

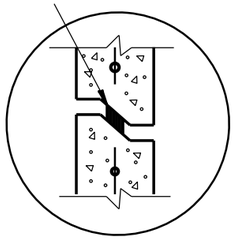


TOP WITH PLAIN END JOINT



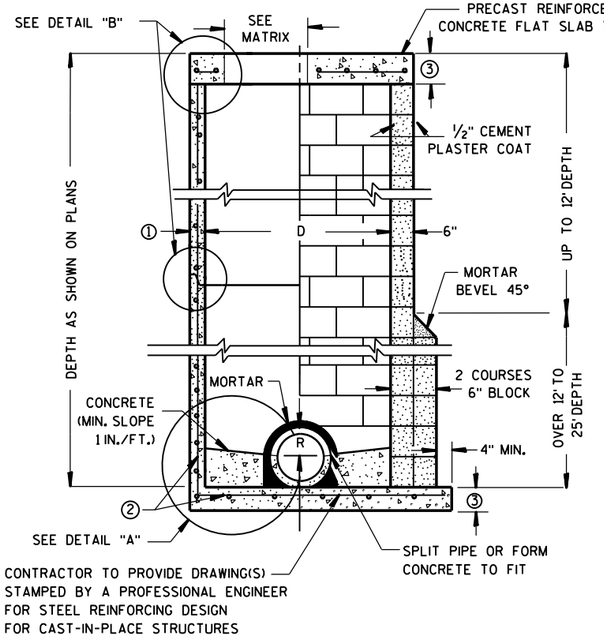
JOINTS TO BE SEALED WITH A BUTYL RUBBER SEAL PER SEALANT MANUFACTURERS RECOMMENDATIONS CONFORMING TO ASTM C990 (TYP)

TOP WITH TONGUE AND GROOVE JOINT



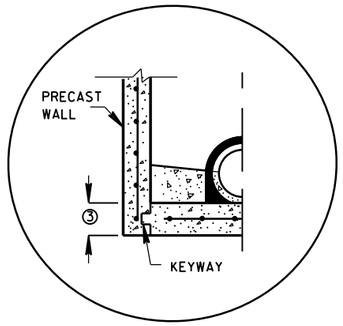
RISER WITH TONGUE AND GROOVE JOINT

DETAIL "B"

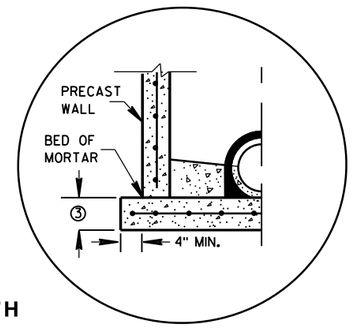


PRECAST REINFORCED CONCRETE WITH MONOLITHIC BASE

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

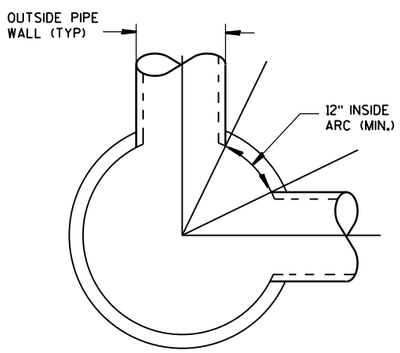


PRECAST REINFORCED CONCRETE WITH INTEGRAL BASE OPTION



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

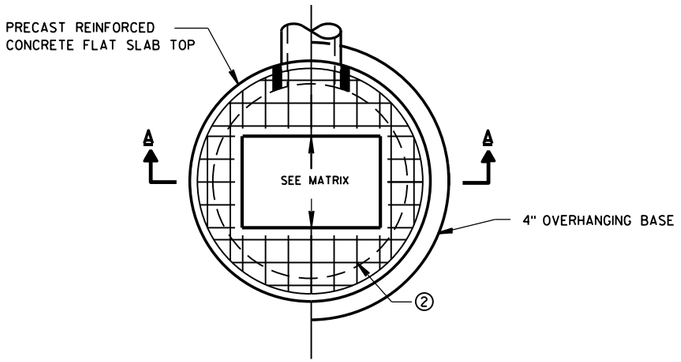
MANHOLE SIZE	MAXIMUM INSIDE PIPE DIAMETER FOR TWO PIPES	
	180° SEPARATION (IN)	90° SEPARATION (IN)
3-FT	15	12
4-FT	24	18
5-FT	36	24
6-FT	42	36
7-FT	48	36
8-FT	60	42

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

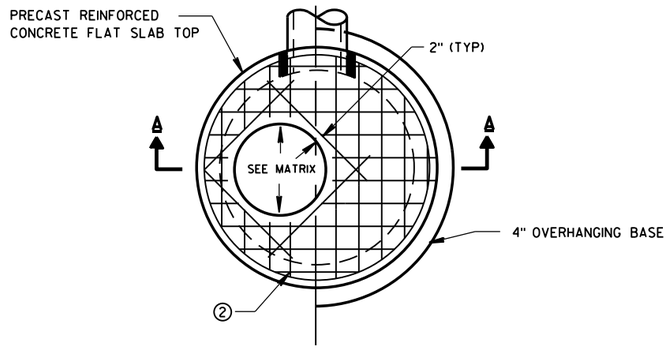
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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

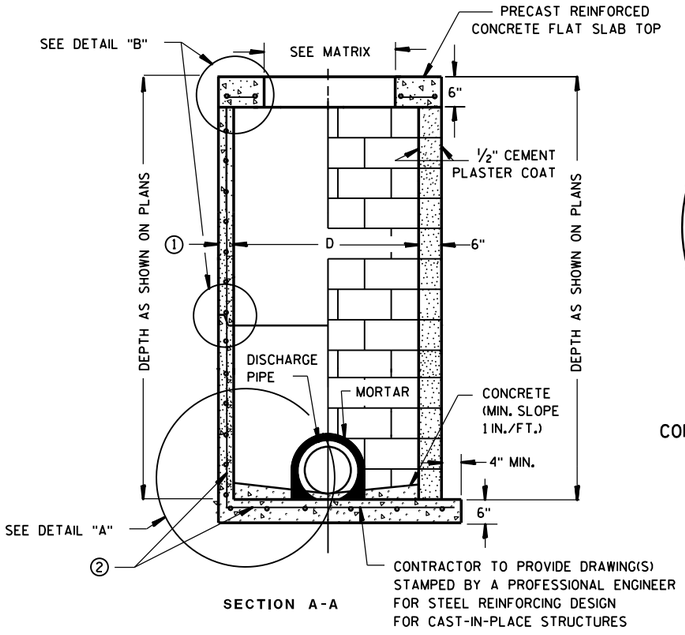
6
S.D.D. 8 B 9-1



PLAN VIEW RECTANGULAR OPENING



PLAN VIEW CIRCULAR OPENING

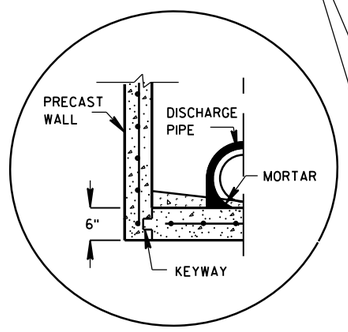


SECTION A-A

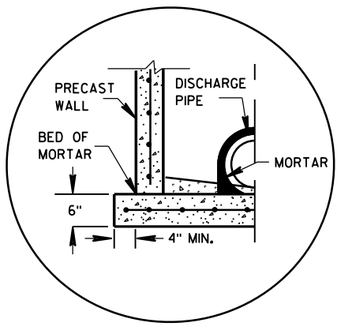
PRECAST REINFORCED CONCRETE WITH MONOLITHIC BASE

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

CIRCULAR INLETS W/ FLAT TOP

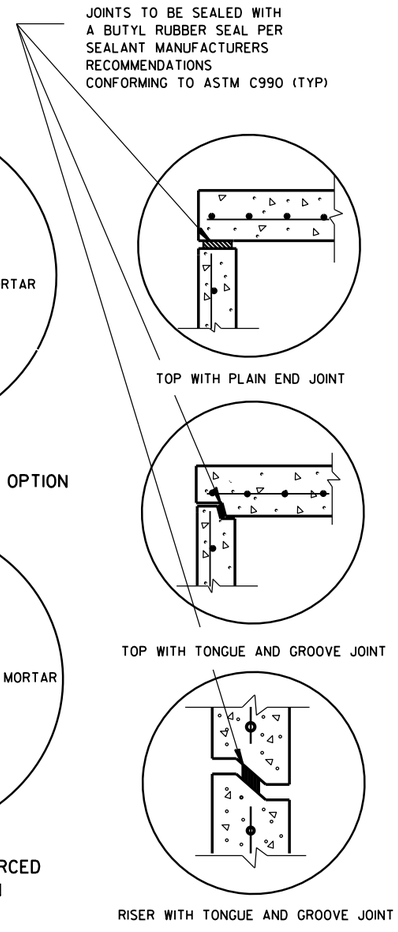


PRECAST REINFORCED CONCRETE WITH INTEGRAL BASE OPTION



SEPARATE PRECAST REINFORCED CONCRETE BASE OPTION

DETAIL "A"



DETAIL "B"

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 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.

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

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

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

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.

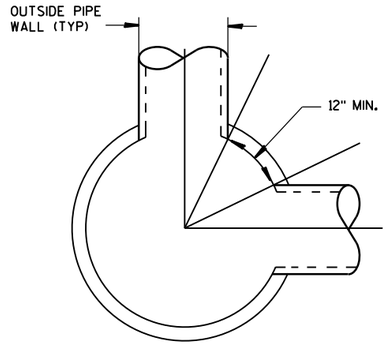
FOR ADDITIONAL CONFIGURATIONS, MAINTAIN A MINIMUM OF 12 INCHES AS MEASURED FROM THE INSIDE OF THE STRUCTURE WALL BETWEEN THE OUTSIDE PIPE WALLS OF ADJACENT PIPES. SEE DETAIL "C".

① MINIMUM WALL THICKNESS SHALL BE 4-IN FOR 3-FT DIAMETER AND 5-IN FOR 4-FT DIAMETER PRECAST INLETS.

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

INLET COVER OPENING MATRIX

	INLET COVER TYPE	ALL A'S	ALL B'S	BW	C	F	ALL H'S	S	T	V	WM	Z
INLET SIZE	OPENING SIZE (FT)											
3-FT	2 DIA.				X							X
	2X2	X	X					X		X		
4-FT	2 DIA.				X							X
	2X2	X	X					X		X		
	2X2.5			X				X	X	X	X	
	2X3						X					
	2.5X3					X						



DETAIL "C"

PIPE MATRIX

INLET SIZE	MAXIMUM INSIDE PIPE DIAMETER FOR TWO PIPES	
	180° SEPARATION (IN)	90° SEPARATION (IN)
3-FT	15	12
4-FT	24	18

INLETS 3-FT AND 4-FT DIAMETER

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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

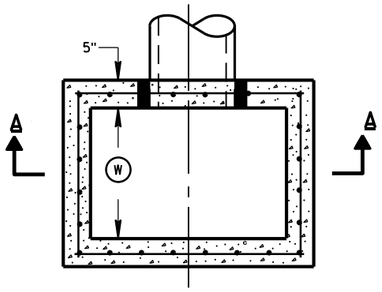
INLETS 3-FT AND 4-FT DIAMETER

6

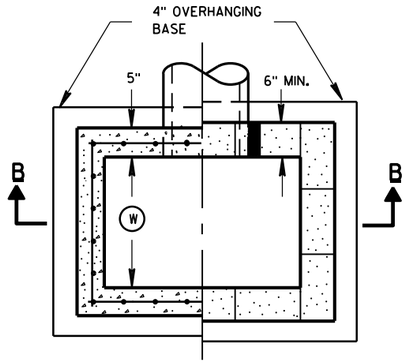
S.D.D. 8 C 6-1

6

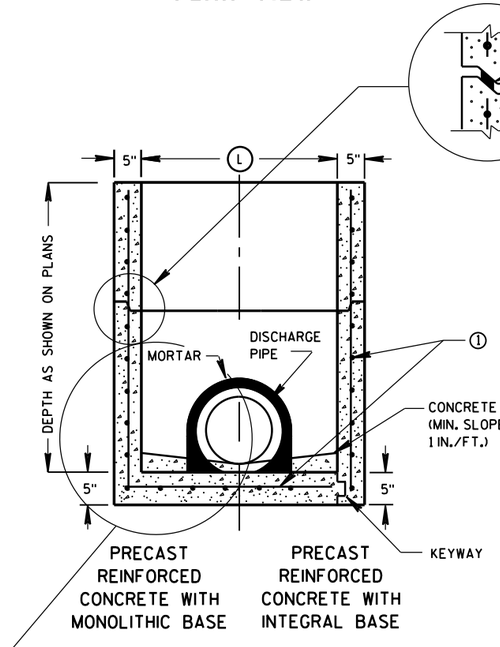
S.D.D. 8 C 6-1



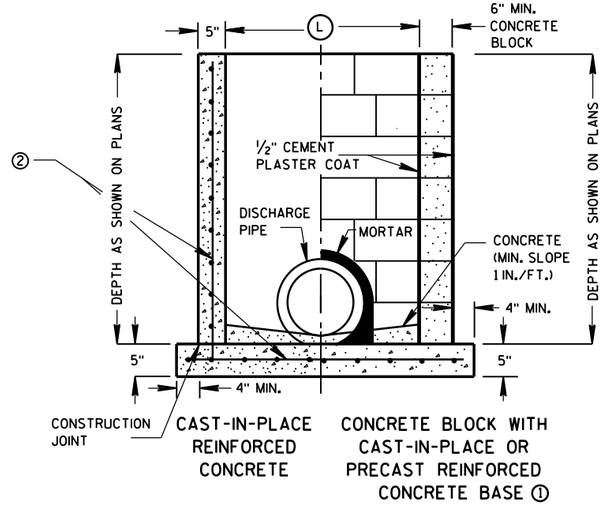
PLAN VIEW



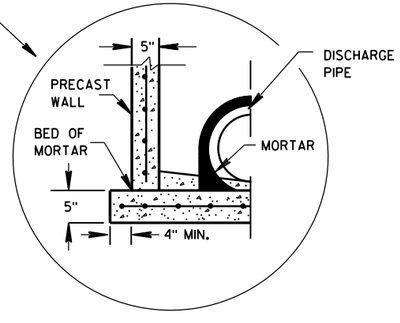
PLAN VIEW



SECTION A-A



SECTION B-B



SEPARATE PRECAST REINFORCED CONCRETE BASE OPTION

GENERAL NOTES

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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.

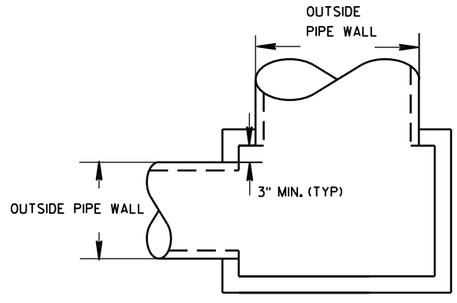
② CONTRACTOR TO PROVIDE DRAWING(S) STAMPED BY A PROFESSIONAL ENGINEER FOR STEEL REINFORCING DESIGN FOR CAST-IN-PLACE STRUCTURES.

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

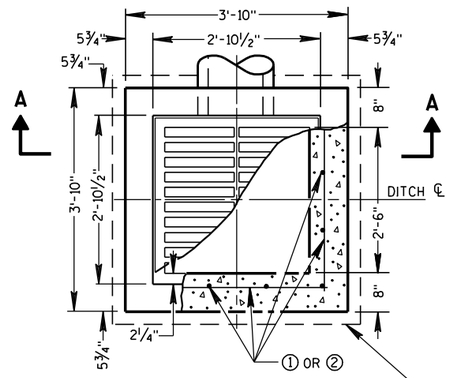
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
6/5/2012
DATE
FHWA

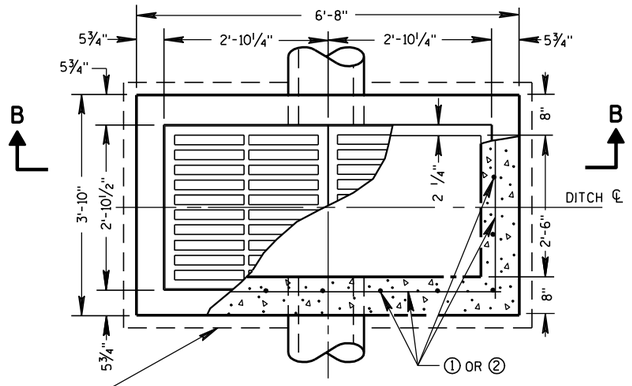
/S/ Jerry H. Zogg
ROADWAY STANDARDS DE
ENGINEER

6

S.D.D. 8 C 7-1

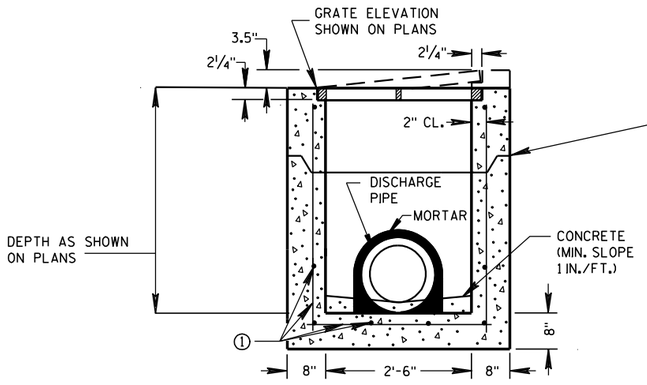


PLAN VIEW

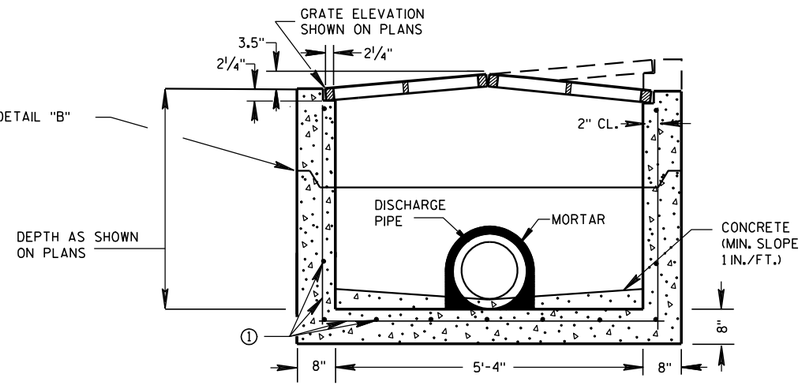


PLAN VIEW

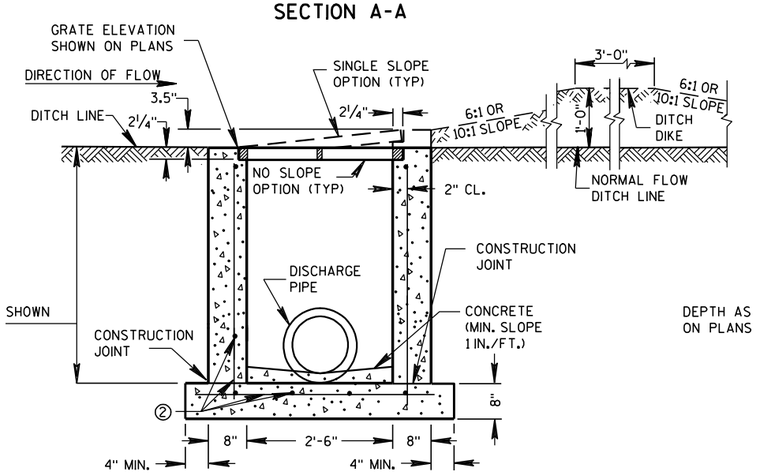
4" OVERHANGING BASE ON REINFORCED CAST-IN-PLACE CONCRETE INLETS



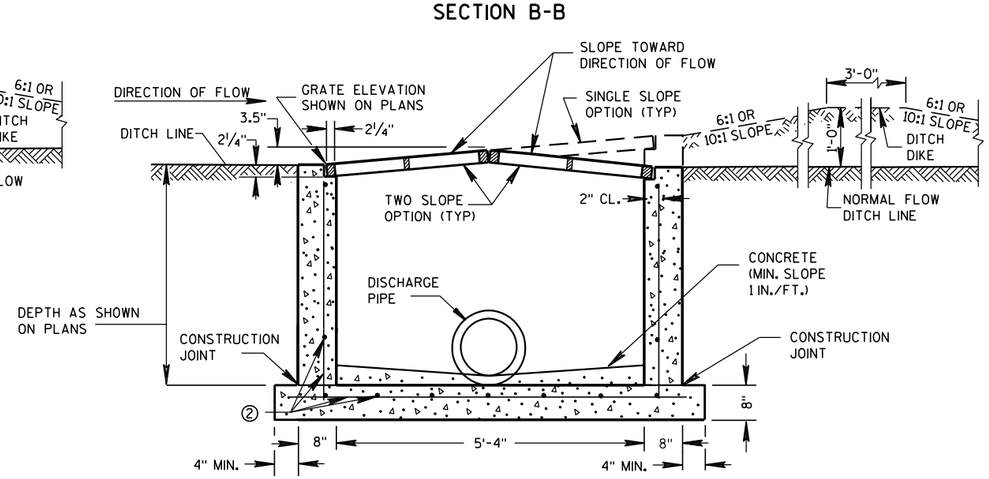
PRECAST REINFORCED CONCRETE SECTION A-A



PRECAST REINFORCED CONCRETE SECTION B-B



REINFORCED CAST-IN-PLACE CONCRETE SECTION A-A



REINFORCED CAST-IN-PLACE CONCRETE SECTION B-B

INLETS MEDIAN 1 GRATE

INLETS MEDIAN 2 GRATE

GENERAL NOTES

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

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

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

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

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

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

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

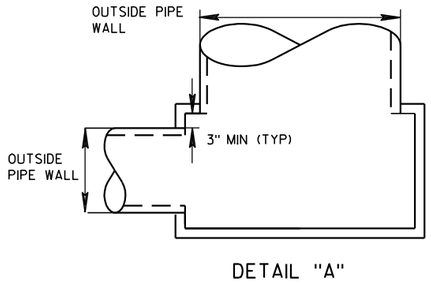
MAXIMUM INSIDE PIPE DIAMETER DETERMINED BY 3" CLEARANCE ON EACH SIDE OF THE OUTSIDE WALL OF THE PIPE. SEE DETAIL "A". ASSUMES PIPE ENTERS PERPENDICULAR TO THE STRUCTURE.

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

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

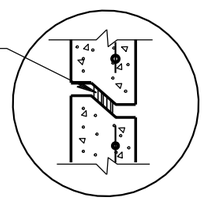
PIPE MATRIX

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



DETAIL "A"

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



DETAIL "B"

INLETS MEDIAN 1 AND 2 GRATE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

6/5/2012
DATE

/S/ Jerry H. Zogg
ROADWAY STANDARDS DEVELOPMENT ENGINEER

FHWA

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S.D.D. 8 C 8-1

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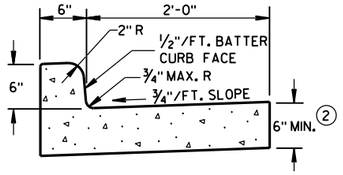
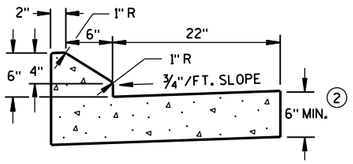
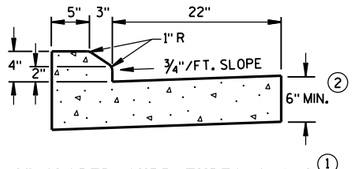
S.D.D. 8 C 8-1



TYPES A & D ①

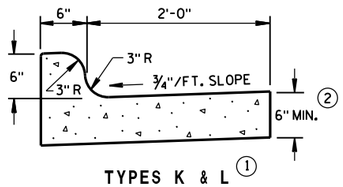


6" SLOPED CURB TYPES G & J ①

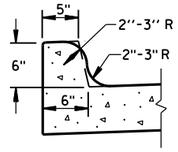


4" SLOPED CURB TYPES G & J ①

CONCRETE CURB & GUTTER 30"

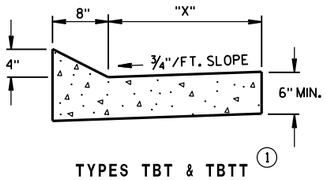


TYPES K & L ①



OPTIONAL CURB SHAPE FOR TYPES K & L ①

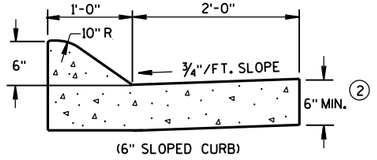
CONCRETE CURB & GUTTER 30"



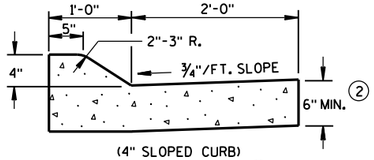
TYPES TBT & TBTT ①

CONCRETE CURB & GUTTER

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

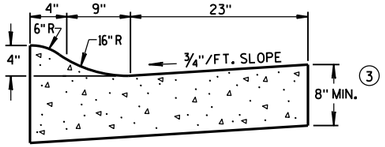


(6" SLOPED CURB)



(4" SLOPED CURB)

TYPES A & D ①



4" SLOPED CURB TYPES R & T ① ④

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.

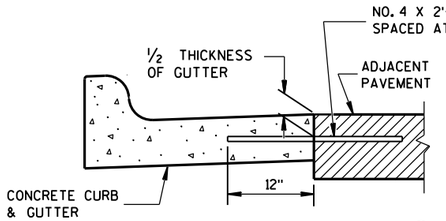
① TIE BARS ARE REQUIRED FOR CURB AND GUTTER TYPES A, G, K, R AND TBTT.

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.

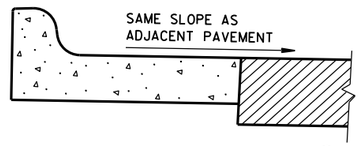
③ THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 8" MINIMUM GUTTER THICKNESS IS MAINTAINED.

④ THE FACE OF CURB IS 6" FROM THE BACK OF CURB.

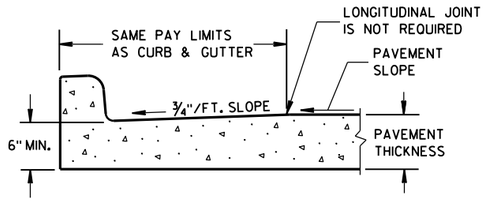
⑤ WHEN REVERSE SLOPE GUTTER IS REQUIRED, THE LOCATION(S) WILL BE SHOWN ELSEWHERE IN THE PLAN.



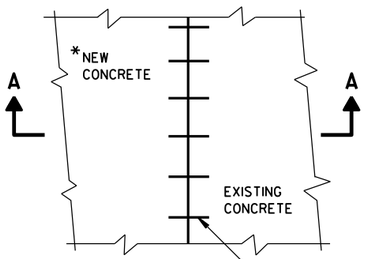
TYPICAL TIE BAR LOCATION ①



REVERSE SLOPE GUTTER ⑤
(TYPICAL FOR ALL CURB & GUTTER TYPES)

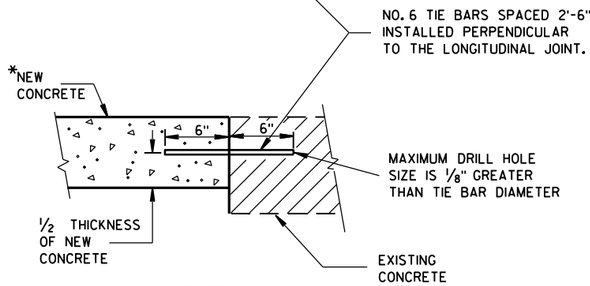


PARTIAL SECTION OF PAVEMENT
WITH INTEGRAL CURB & GUTTER



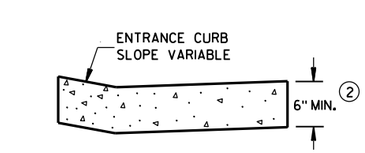
PLAN VIEW

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

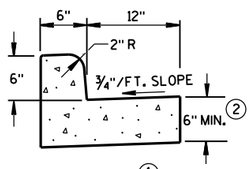


SECTION A-A

TIE BARS DRILLED
INTO EXISTING PAVEMENT

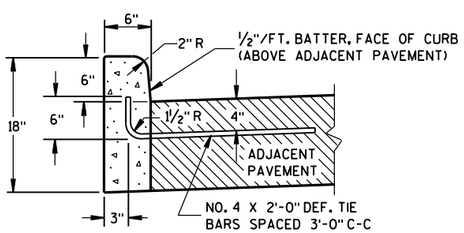


DRIVEWAY ENTRANCE CURB
(WHEN DIRECTED BY THE ENGINEER)

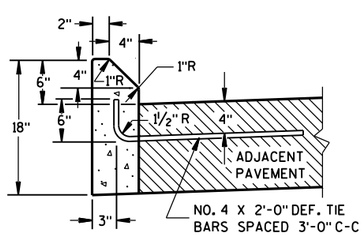


① TYPES A & D

CONCRETE CURB & GUTTER 18"

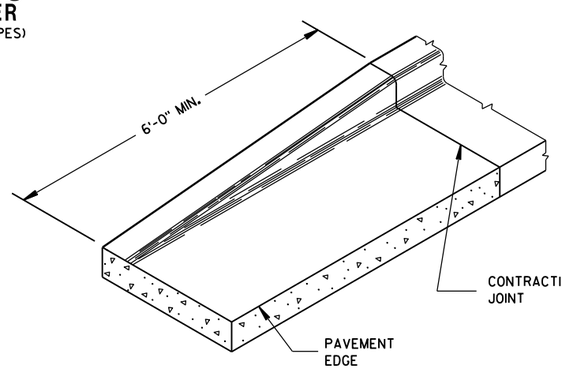


① TYPES A & D



① TYPES G & J

CONCRETE CURB



END SECTION CURB & GUTTER

CONCRETE CURB, CONCRETE CURB & GUTTER AND TIES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June, 2015 — DATE
/S/ Jerry H. Zogg — ROADWAY STANDARDS ENGINEER
FHWA

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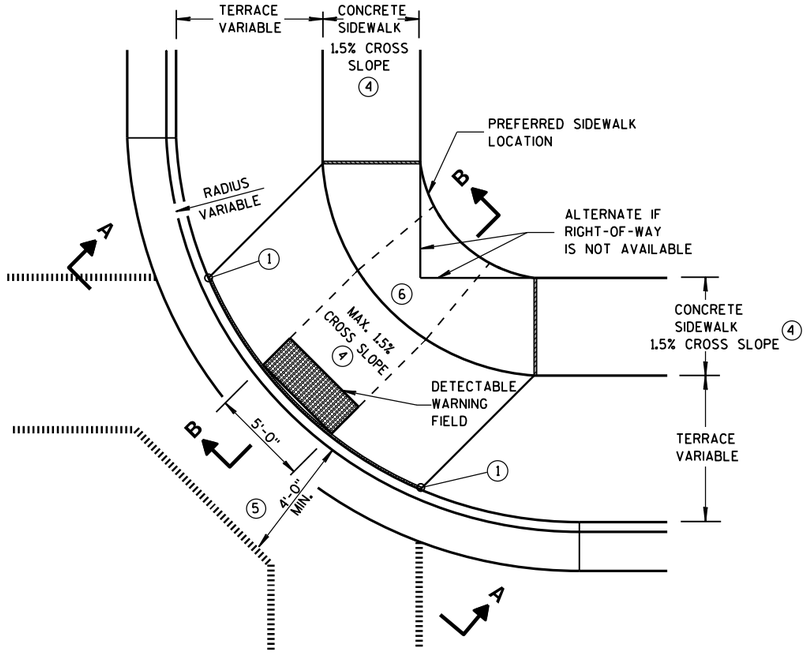
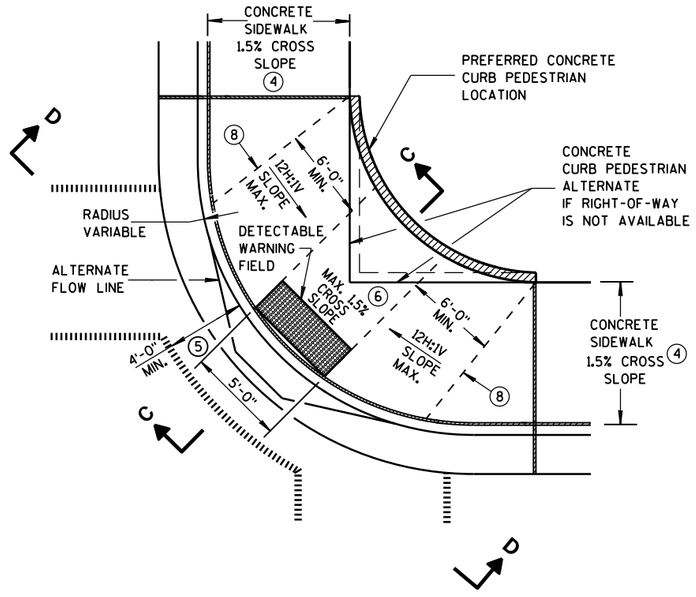
S.D.D. 8 D 1-18



PLAN VIEW

TYPE 1 RAMP

(CENTER OF CORNER RADIUS)



PLAN VIEW

TYPE 1-A RAMP

(NO TERRACE)

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%.

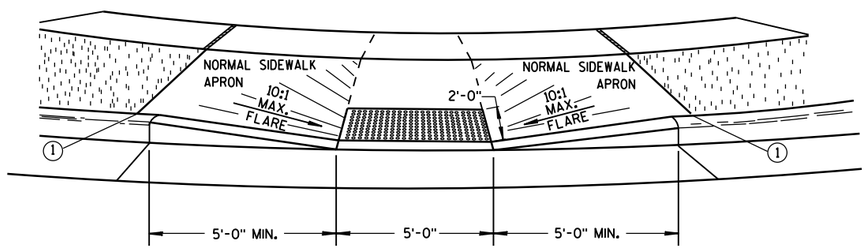
(3) ABSOLUTE MAXIMUM 12H:1V (8.33%) CURB RAMP SLOPE IS ALLOWABLE WITH FLATTENED GUTTER FLAG SLOPE AND NOT TO EXCEED 11% GRADE CHANGE.

(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.

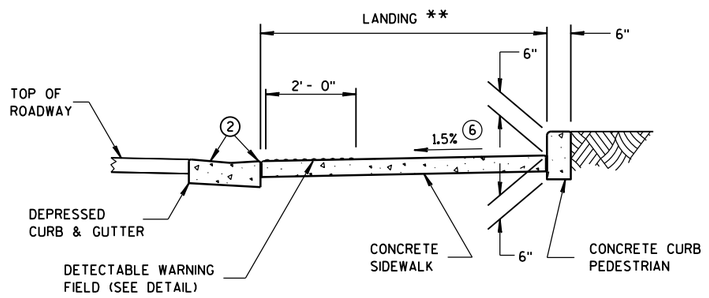
(6) PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LANDING SIZE IS 5 FEET X 5 FEET (MINIMUM 4 FEET X 4 FEET).

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



VIEW A-A

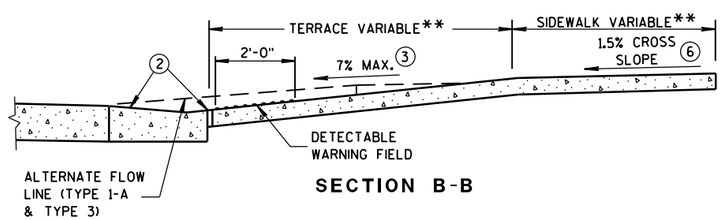
** WIDTH SHOWN ELSEWHERE IN THE PLANS



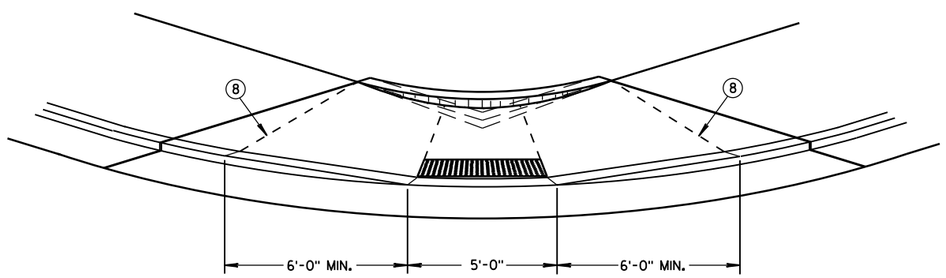
SECTION C-C

LEGEND

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



SECTION B-B



VIEW D-D

CURB RAMPS TYPES 1 AND 1-A

STATE OF WISCONSIN
DEPARTMENT OF TRANSPO

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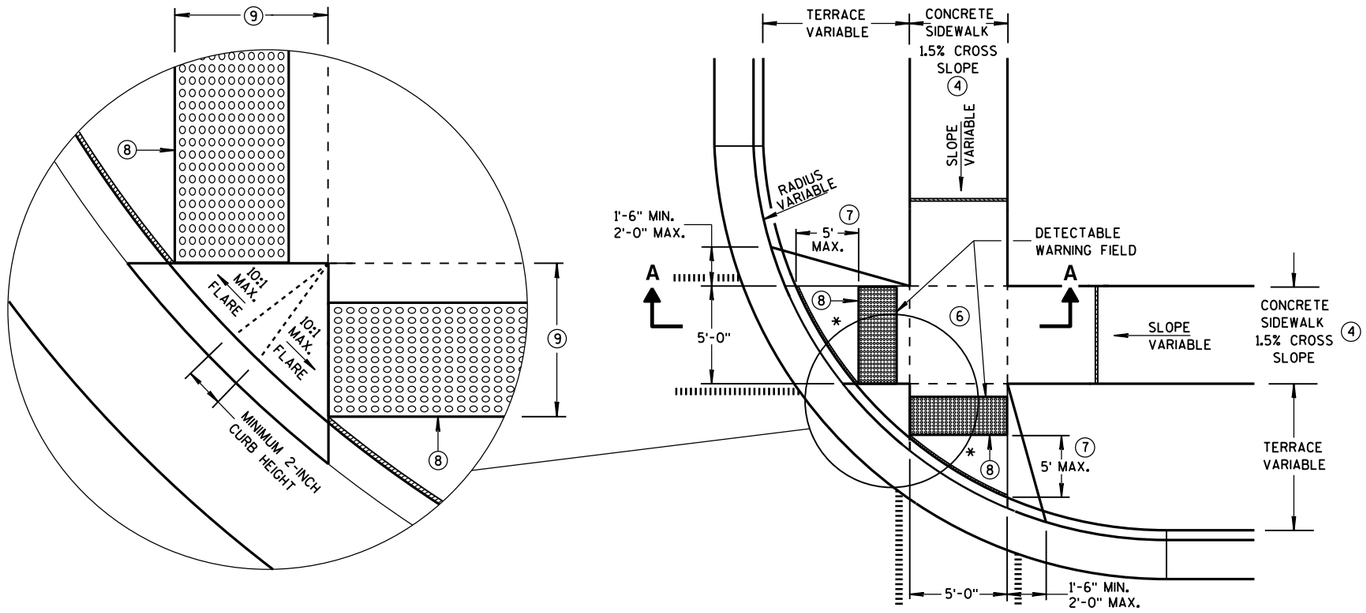
S.D.D. 8 D 5-17a

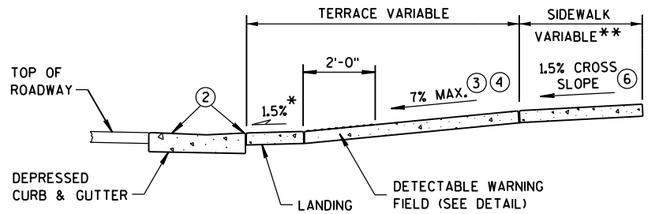


PLAN VIEW

TYPE 2 RAMP

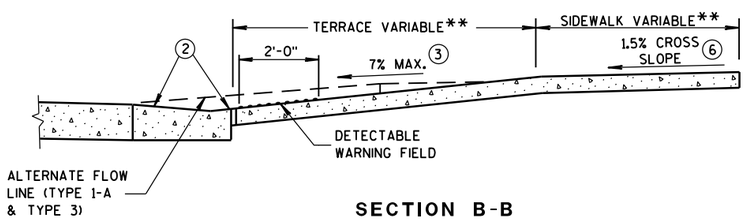
(ON LINE WITH SIDEWALK)

* 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 (MINIMUM 4 FEET X 4 FEET).

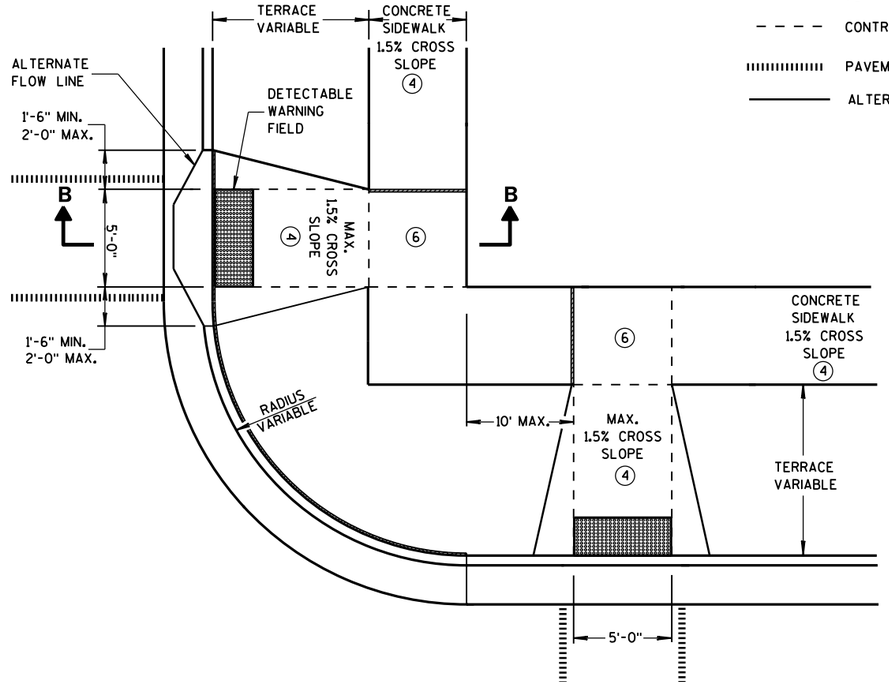
(7) WHEN THIS DISTANCE EXCEEDS 5 FEET, STAGGER ADDITIONAL DETECTABLE WARNING PANEL FORWARD TO REDUCE THIS DISTANCE. PROVIDE MINIMUM 12-INCH ROW OVERLAP TO AVOID SIDESTEP OF DOME DETECTION. ALIGN DOMES BETWEEN OVERLAPPING ROWS AND IN DIRECTION OF PEDESTRIAN TRAVEL.

(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

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



PLAN VIEW

TYPE 3 RAMP

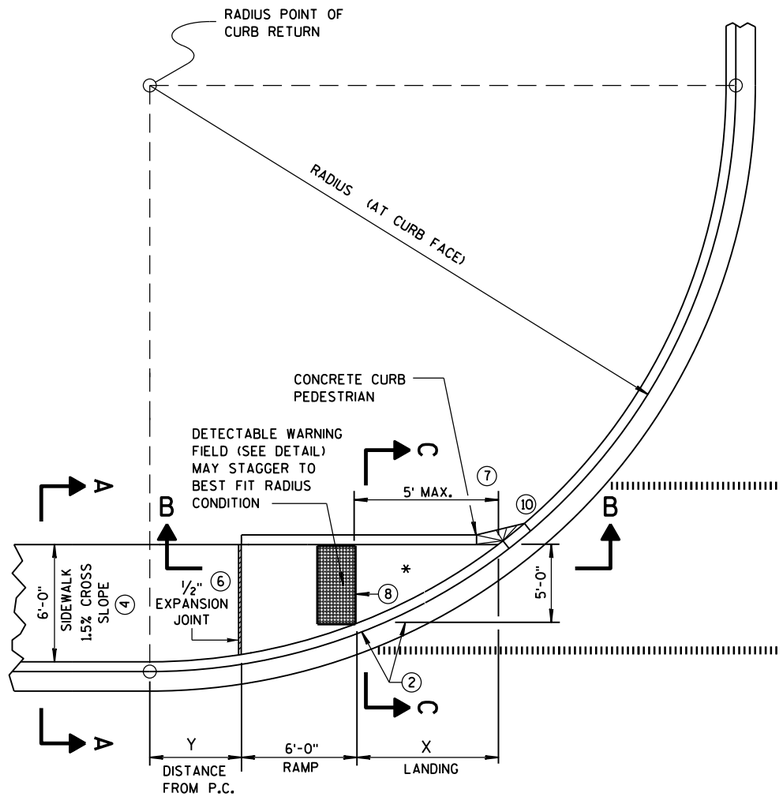
(OUTSIDE OF CROSSWALK AREA)

CURB RAMPS TYPES 2 AND 3

STATE OF WISCONSIN
DEPARTMENT OF TRANSPO

6

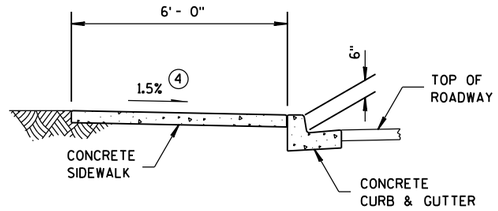
S.D.D. 8 D 5-17b



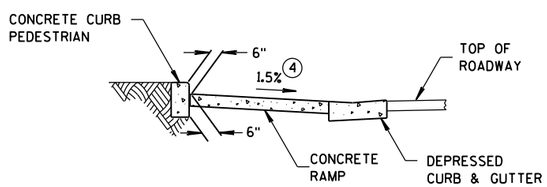
CURB RAMP TYPE 4A
PLAN VIEW

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"

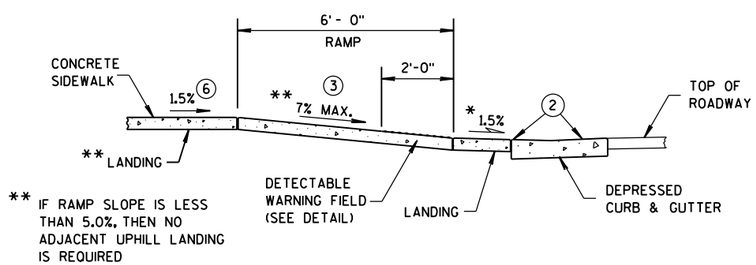
INTERMEDIATE RADII CAN BE INTERPOLATED



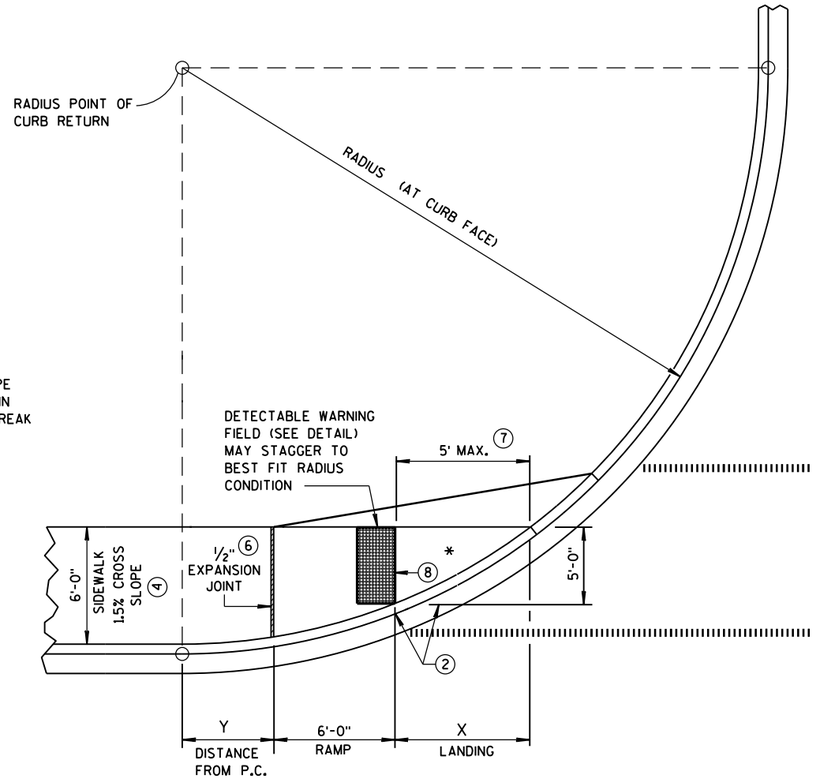
SECTION A-A FOR TYPE 4A



SECTION C-C FOR TYPE 4A



SECTION B-B FOR TYPE 4A



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

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.

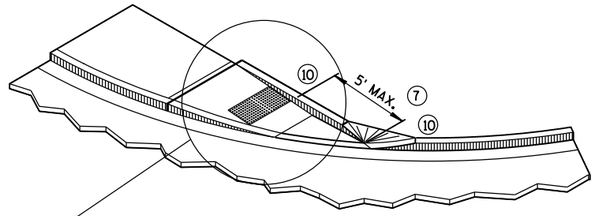
(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

(6) PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LANDING SIZE IS 5 FEET X 5 FEET (MINIMUM 4 FEET X 4 FEET).

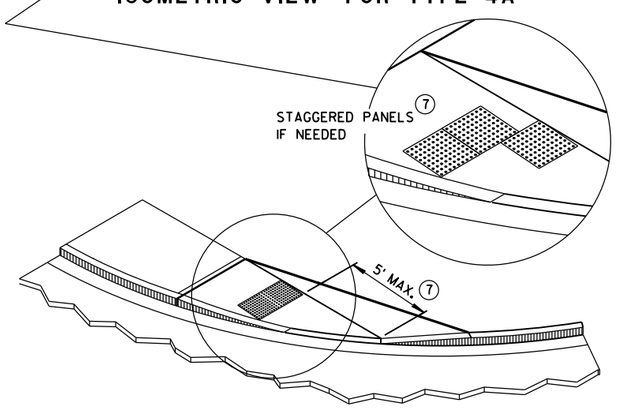
(7) WHEN THIS DISTANCE EXCEEDS 5 FEET, STAGGER ADDITIONAL DETECTABLE WARNING PANEL FORWARD TO REDUCE THIS DISTANCE. PROVIDE MINIMUM 12-INCH ROW OVERLAP TO AVOID SIDESTEP OF DOME DETECTION. ALIGN DOMES BETWEEN OVERLAPPING ROWS AND IN DIRECTION OF PEDESTRIAN TRAVEL.

(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

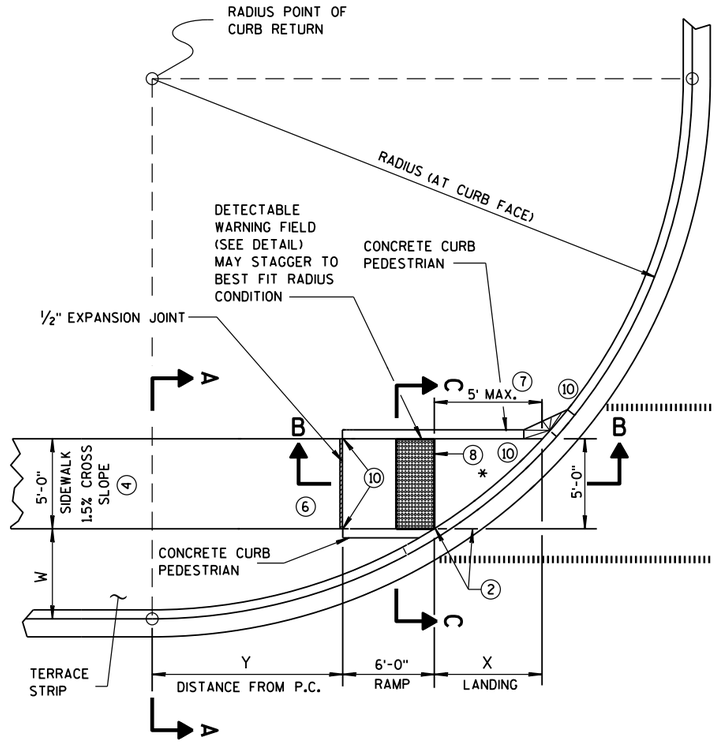
- ½" EXPANSION JOINT-SIDEWALK
- CONTRACTION JOINT FIELD LOCATED
- PAVEMENT MARKING CROSSWALK (WHITE)

CURB RAMPS
TYPES 4A AND 4A1

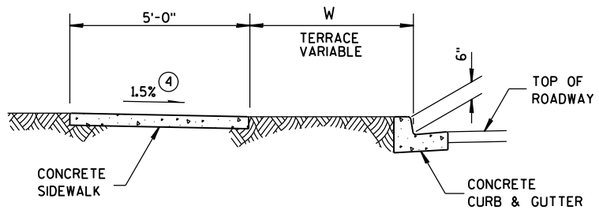
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

6

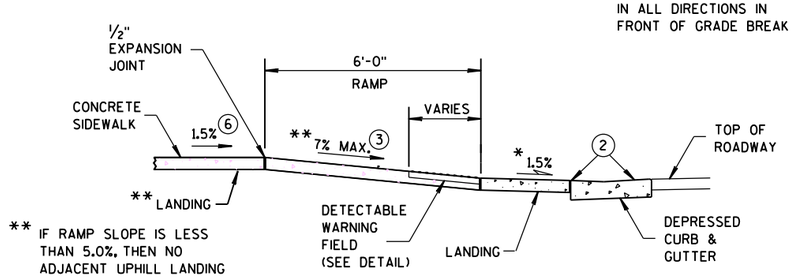
S.D.D. 8 D 5-17c



CURB RAMP TYPE 4B
PLAN VIEW



SECTION A-A FOR TYPE 4B



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

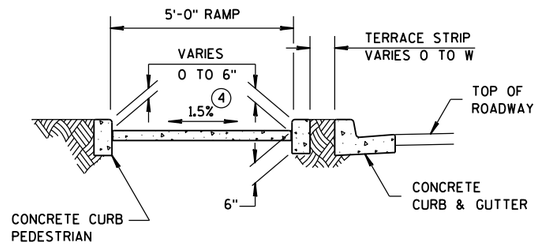
SECTION B-B FOR TYPE 4B

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.

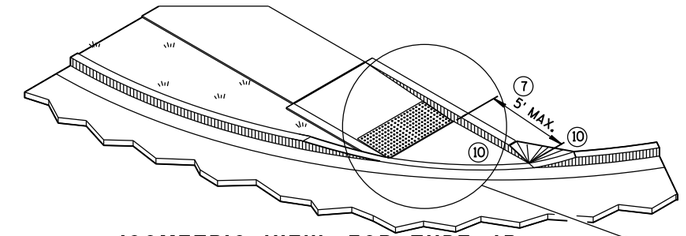
(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

(6) PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LANDING SIZE IS 5 FEET X 5 FEET (MINIMUM 4 FEET X 4 FEET).

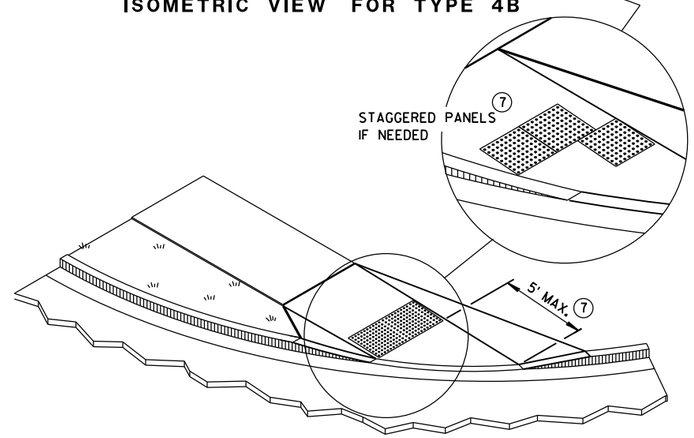
(7) WHEN THIS DISTANCE EXCEEDS 5 FEET, STAGGER ADDITIONAL DETECTABLE WARNING PANEL FORWARD TO REDUCE THIS DISTANCE. PROVIDE MINIMUM 12-INCH ROW OVERLAP TO AVOID SIDESTEP OF DOME DETECTION. ALIGN DOMES BETWEEN OVERLAPPING ROWS AND IN DIRECTION OF PEDESTRIAN TRAVEL.

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

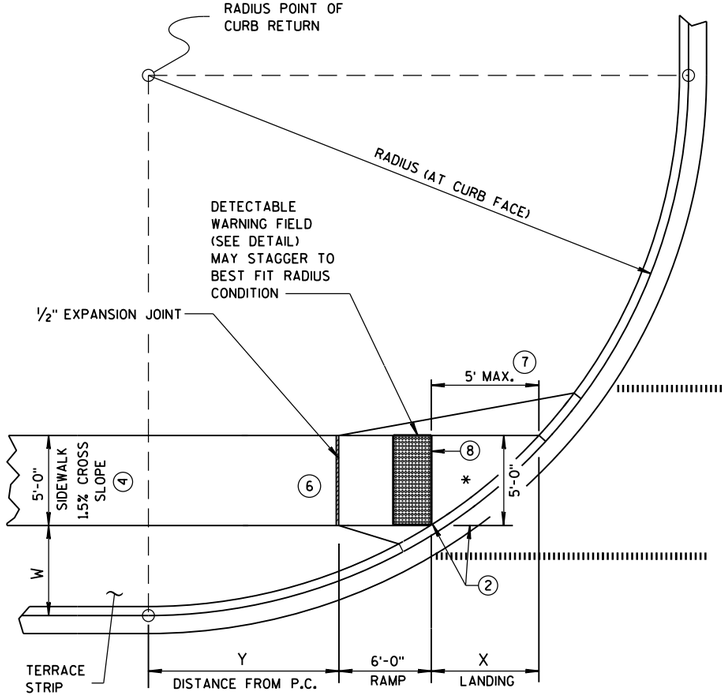
(10) INSTALL TRANSITION NOSE. (INCIDENTAL TO OTHER PAY ITEMS). DO NOT MARK TRANSITION NOSE.



ISOMETRIC VIEW FOR TYPE 4B



ISOMETRIC VIEW FOR TYPE 4B1



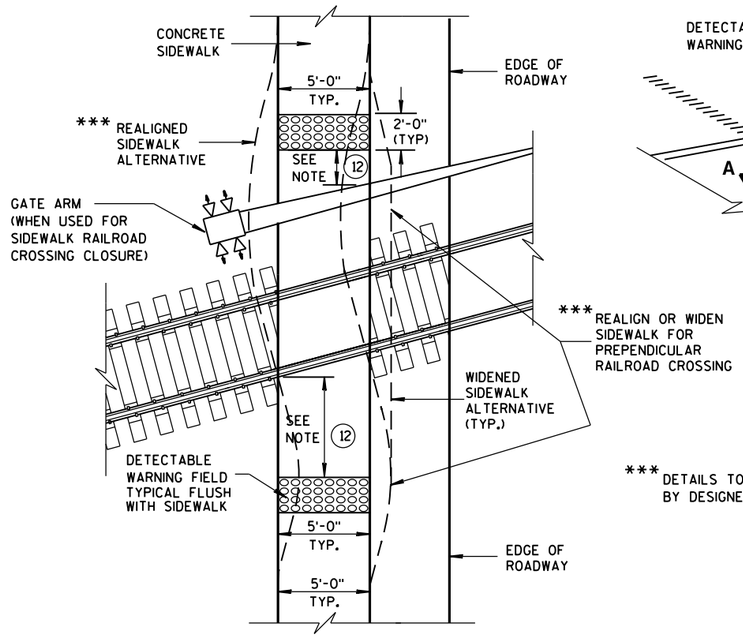
CURB RAMP TYPE 4B1
PLAN VIEW

CURB RAMPS TYPE 4B AND 4B1

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

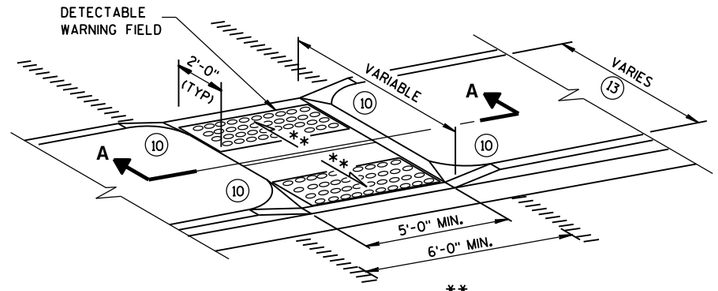
6

S.D.D. 8 D 5-17d



*** 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.

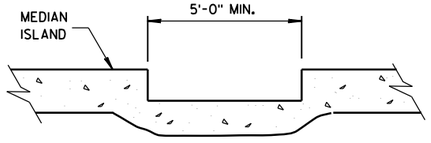
(6) PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LANDING SIZE IS 5 FEET X 5 FEET (MINIMUM 4 FEET X 4 FEET).

(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.

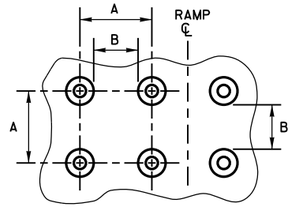
(13) DO NOT INSTALL DETECTABLE WARNING FIELDS IF MEDIAN WIDTH BETWEEN BACK OF CURBS IS LESS THAN 6 FEET.



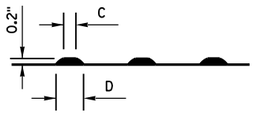
SECTION A-A

	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.

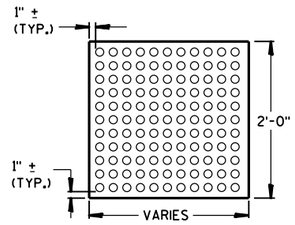


PLAN VIEW

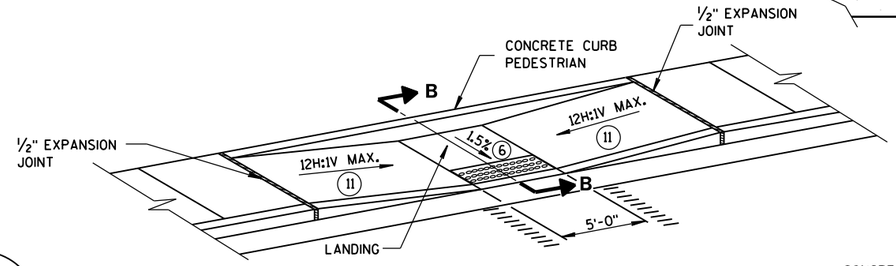


ELEVATION VIEW

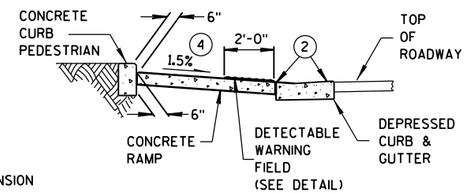
TRUNCATED DOMES
DETECTABLE WARNING PATTERN DETAIL



PLAN VIEW
DETECTABLE WARNING FIELD (TYPICAL)

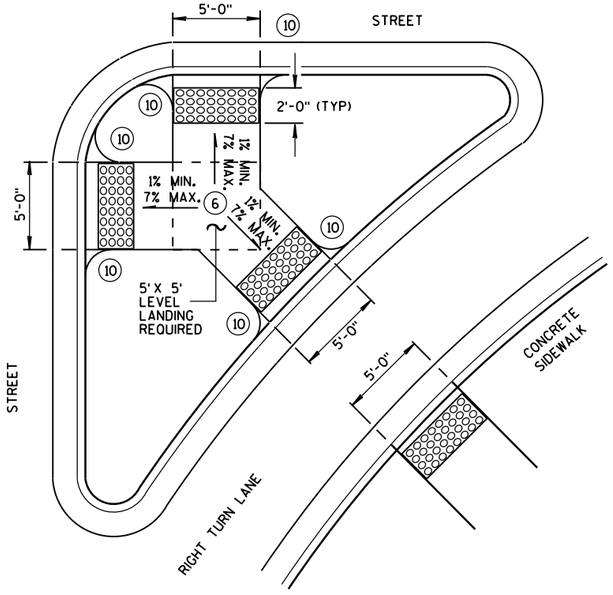


MID-BLOCK CROSSING
TYPE 7A

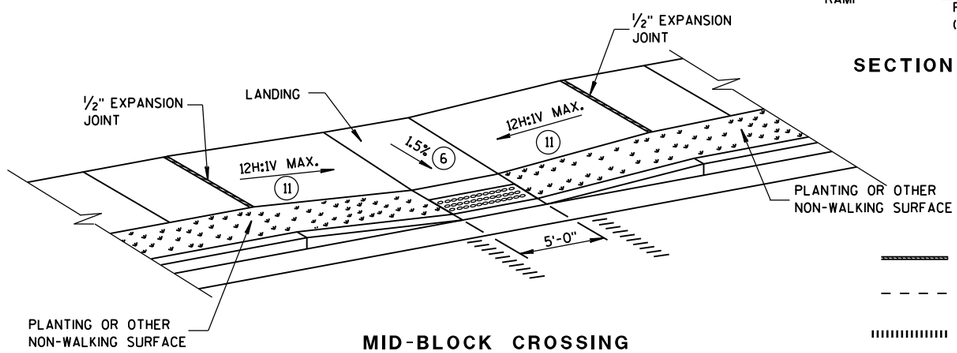


SECTION B-B

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

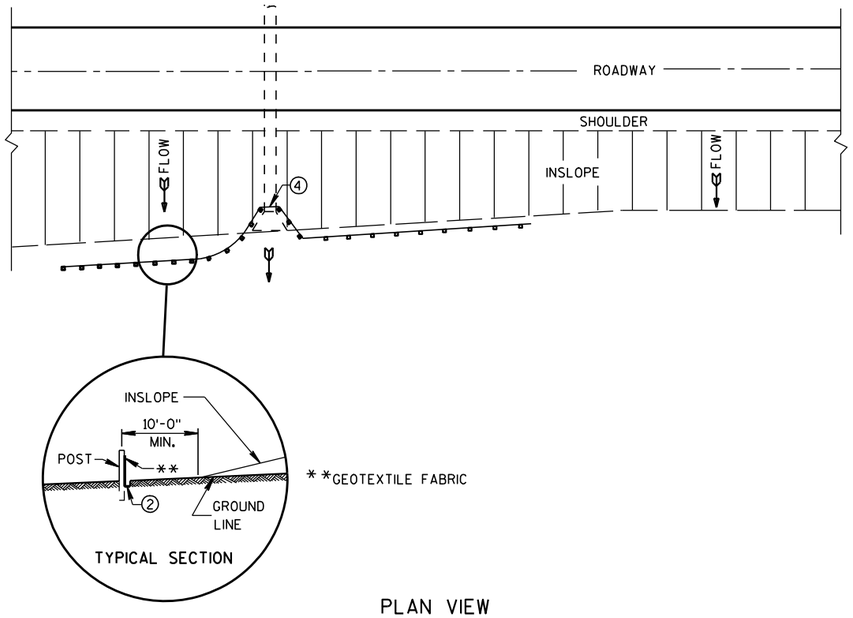
- 1/2" EXPANSION JOINT-SIDEWALK
- CONTRACTION JOINT FIELD LOCATED
- PAVEMENT MARKING CROSSWALK (WHITE)

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

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

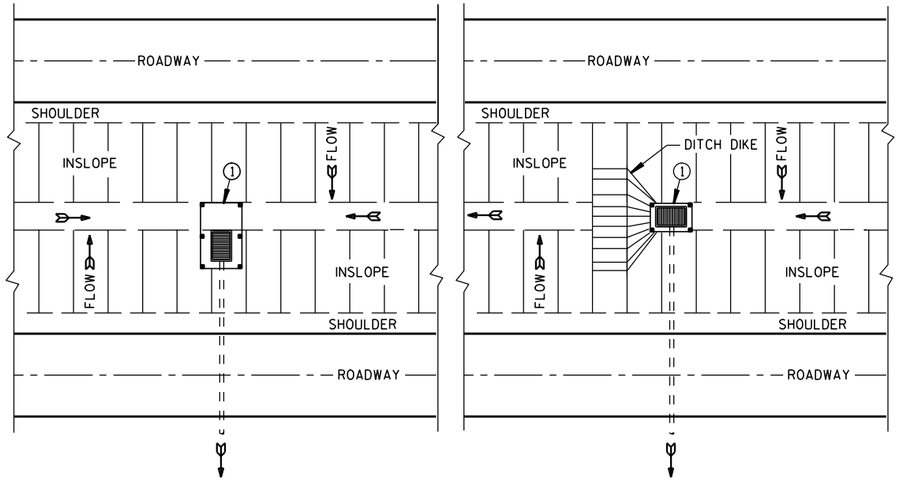
APPROVED
June, 2016 — DATE
/S/ Jerry H. Zogg — ROADWAY STANDARDS DEVELOPMENT ENGINEER
FHWA

6
S.D.D. 8 D 5-17e



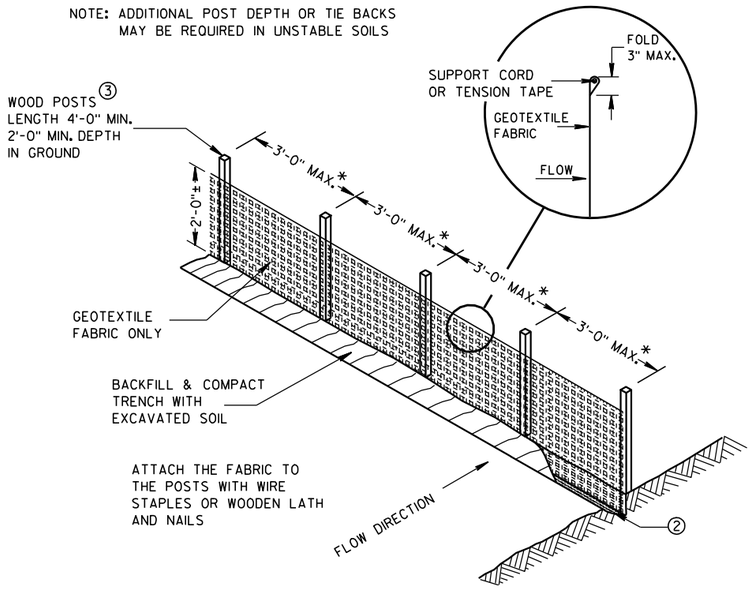
PLAN VIEW

TYPICAL APPLICATION OF SILT FENCE



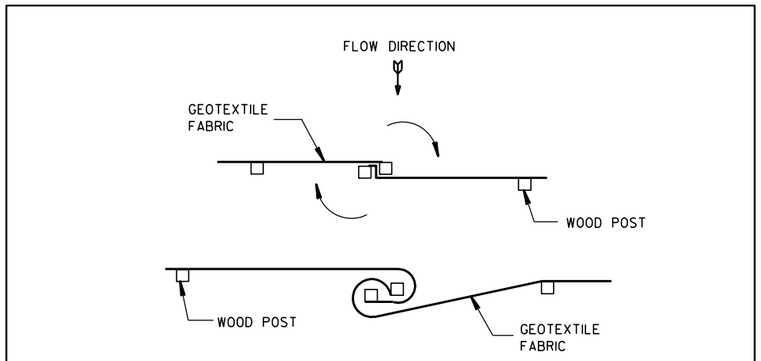
PLAN VIEW

SILT FENCE AT MEDIAN SURFACE DRAINS



*NOTE: 8'-0" POST SPACING ALLOWED IF A WOVEN GEOTEXTILE FABRIC IS USED.

SILT FENCE

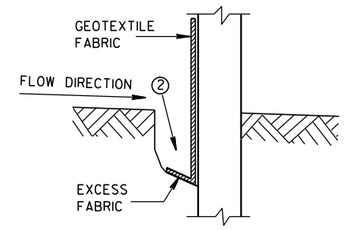


JOINING TWO LENGTHS OF SILT FENCE 5

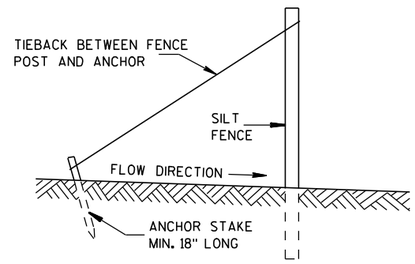
GENERAL NOTES

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

6

S.D.D. 8 E 9-6

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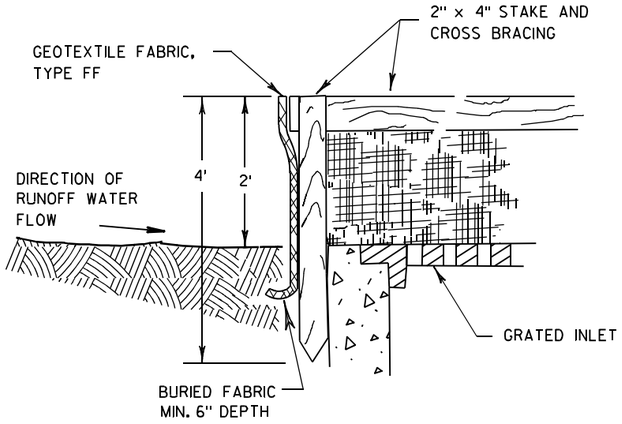
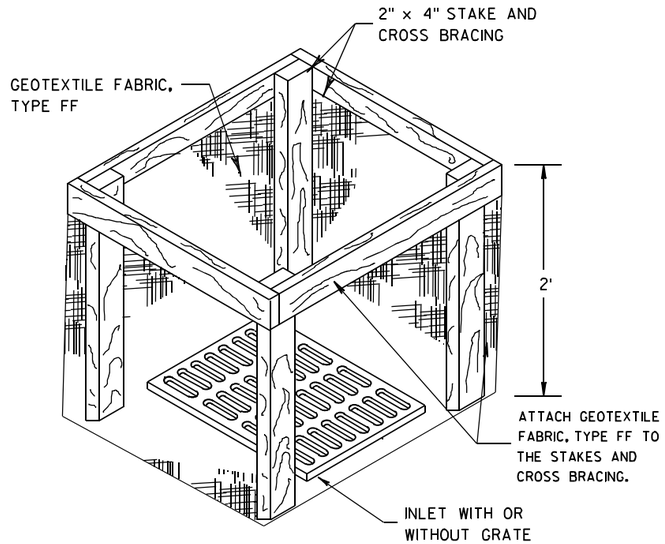
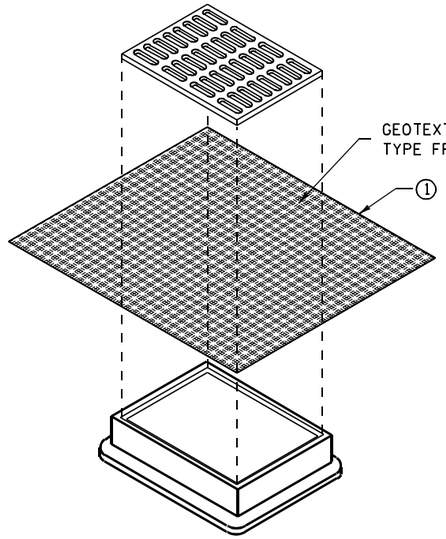
S.D.D. 8 E 9-6



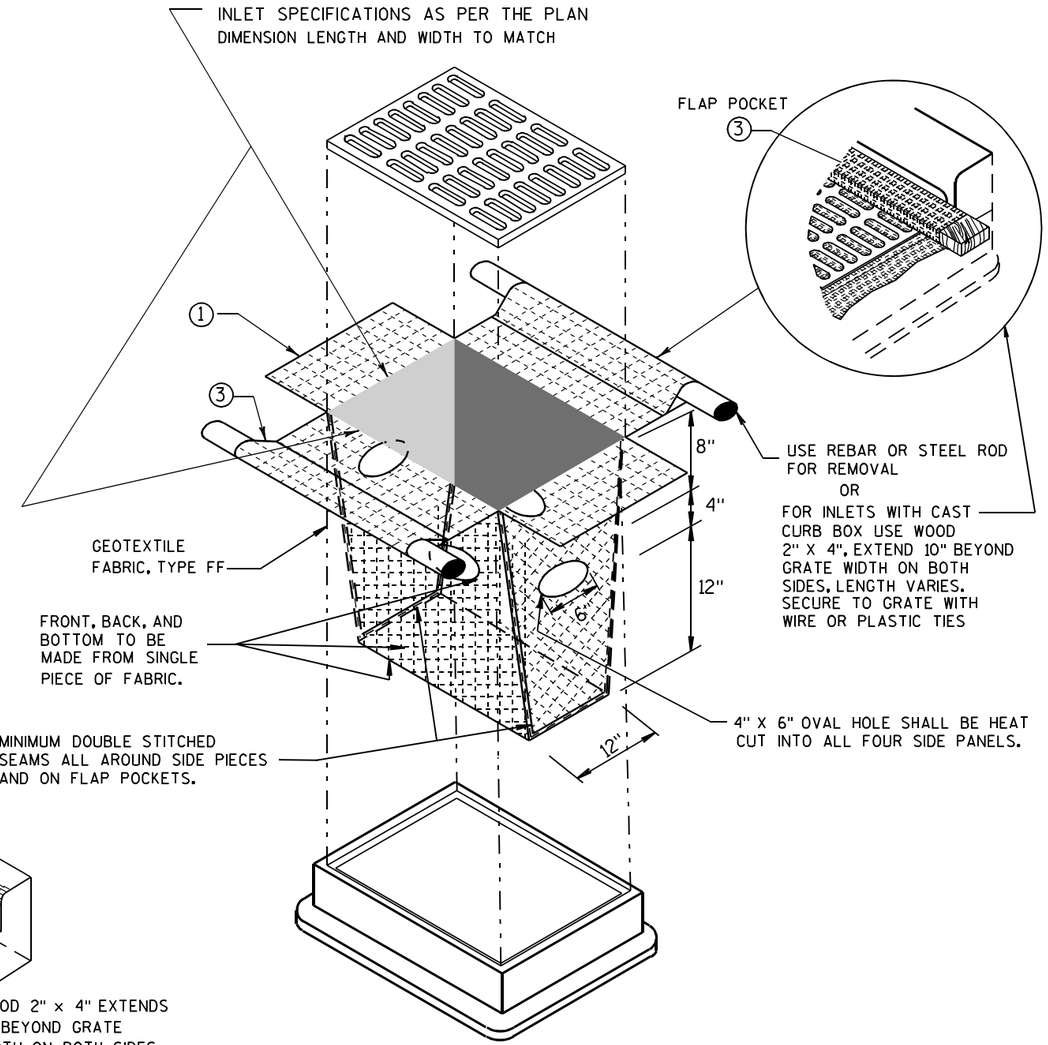


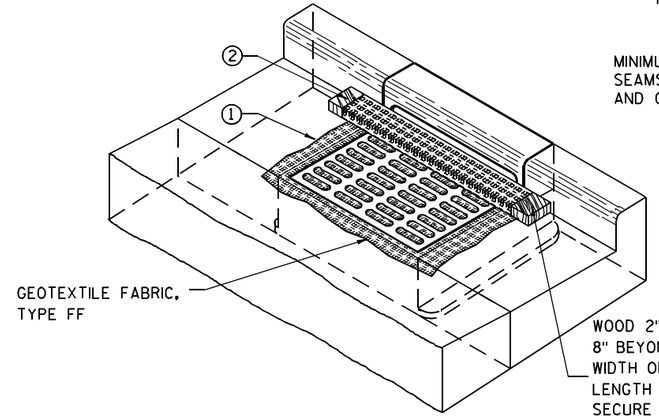
INLET PROTECTION, TYPE A



INLET PROTECTION, TYPE B
(WITHOUT CURB BOX)

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





INLET PROTECTION, TYPE C (WITH CURB BOX)

INLET PROTECTION, TYPE D

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

GENERAL NOTES

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

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

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

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

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

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

INSTALLATION NOTES

TYPE B & C

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

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

TYPE D

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

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

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

INLET PROTECTION
TYPE A, B, C, AND D

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

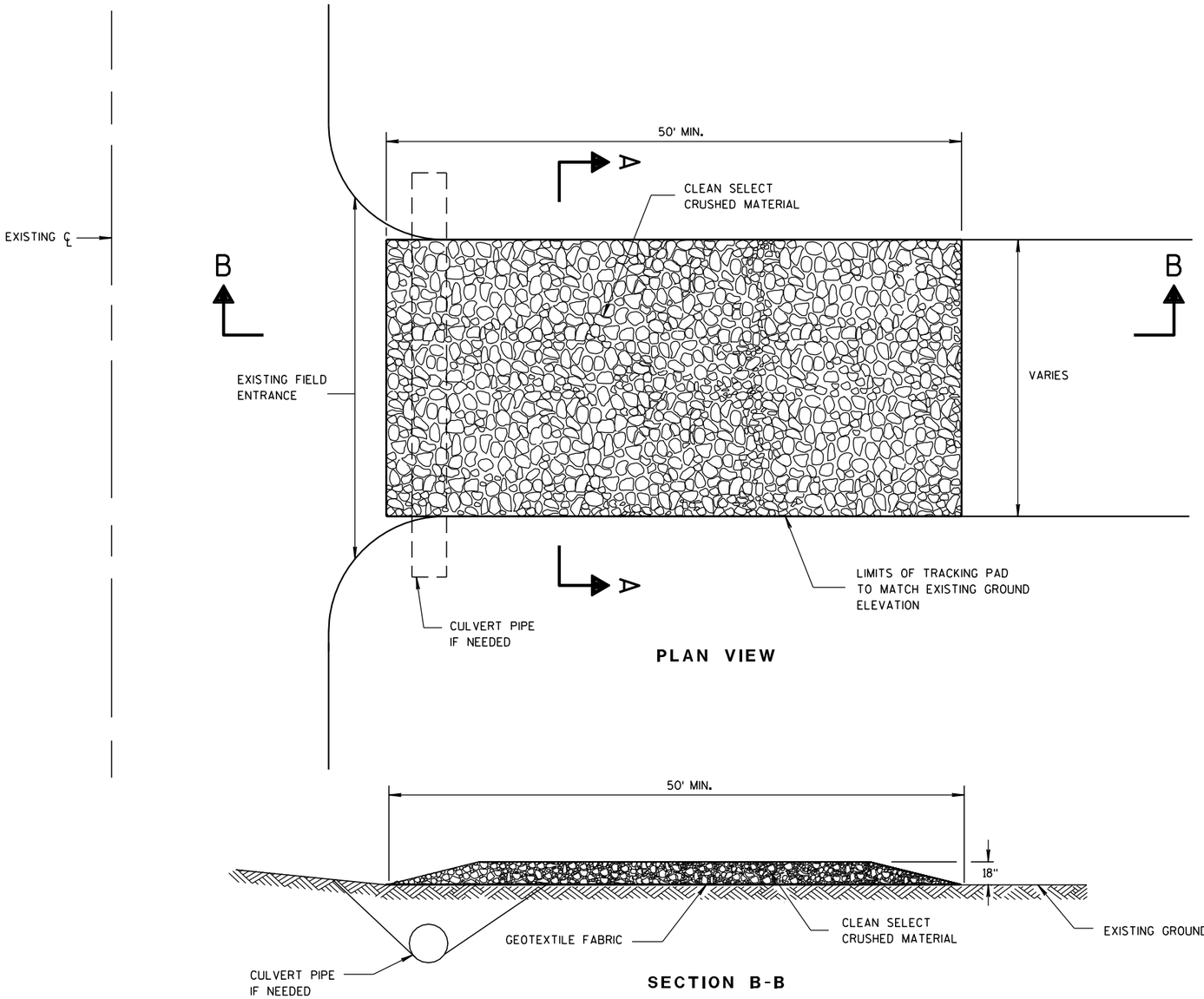
APPROVED

10/16/02
DATE

/S/ Beth Cannestra
CHIEF ROADWAY DEVELOPMENT ENGINEER

FHWA

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



PLAN VIEW

SECTION B-B

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.

TRACKING PAD SHALL BE INSPECTED DAILY. DEFICIENT AREAS SHALL BE REPAIRED OR REPLACED IMMEDIATELY.

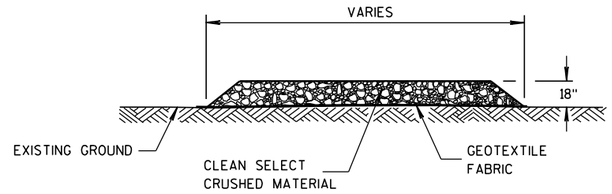
TRACKING PAD TO BE REMOVED AFTER CONSTRUCTION IS COMPLETED.

TRACKING PAD SHALL BE THE FULL WIDTH OF THE EGRESS POINT.

SURFACE WATER MUST BE PREVENTED FROM PASSING THROUGH THE TRACKING PAD. FLOWS SHALL BE DIVERTED AWAY, AROUND OR CONVEYED UNDER THE TRACKING PAD.

CULVERT PIPE OR OTHER BMP USED TO DIVERT WATER AWAY, AROUND OR UNDER THE TRACKING PAD SHALL BE DESIGNED TO CONVEY THE 2 YEAR - 24 HOUR EVENT.

THE COST OF ADDITIONAL BMP TO DIVERT WATER ARE INCIDENTAL TO THE TRACKING PAD BID ITEM.



SECTION A-A

TRACKING PAD

TRACKING PAD	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED 3/24/2011 DATE FHWA	/S/ Jerry H. Zoda ROADWAY STANDARDS ENGINEER

6

S.D.D. 8 E 14-1

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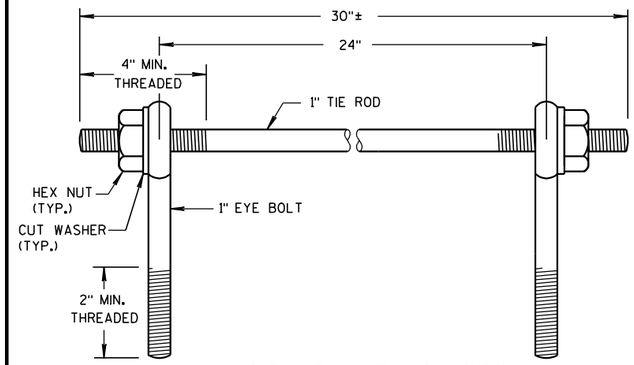
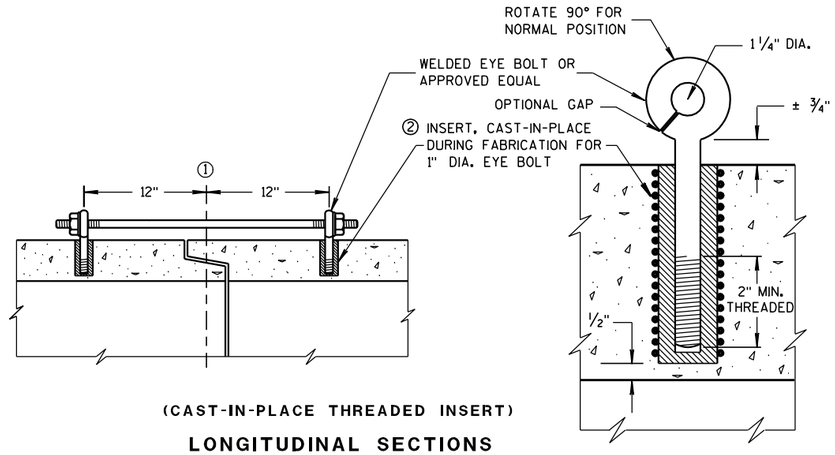
S.D.D. 8 E 14-1



EYE BOLTS AND TIE ROD



(CAST-IN-PLACE THREADED INSERT)

LONGITUDINAL SECTIONS

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

GENERAL NOTES

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

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

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

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

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

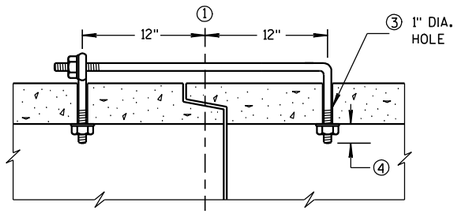
② THE INSIDE OF THE THREADED INSERTS SHALL BE CLEAN TO ALLOW THE INSERTION OF THREADED EYE BOLTS.

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

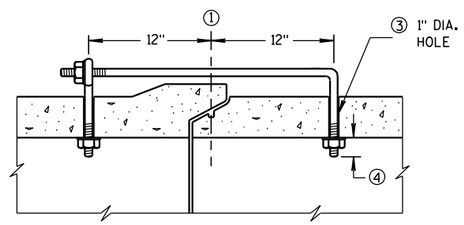
④ BOLT PROJECTION INSIDE OF PIPE SHALL NOT EXCEED 2 INCHES.

⑤ OPENING TO BE ROD DIAMETER PLUS 1 INCH.

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



(TONGUE & GROOVE PIPE)

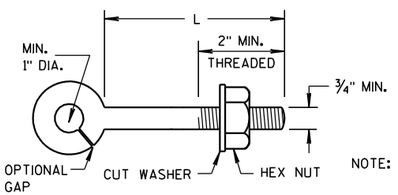


(MODIFIED BELL PIPE)

LONGITUDINAL SECTION

EYE BOLT DIMENSION TABLE

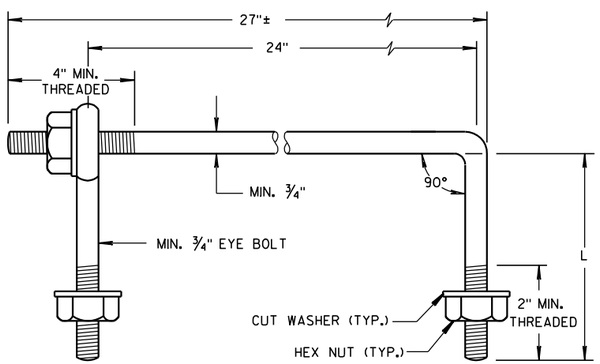
PIPE SIZE	L = LENGTH	
	TONGUE & GROOVE PIPE	MODIFIED BELL PIPE
18" TO 24"	4 1/2"	6 1/4"
30"	5"	7"
36"	5 1/2"	7"
42"	6"	
48"	6 1/2"	
60"	7 1/2"	
66"	8"	



NOTE:

EYE BOLT

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



EYE BOLT AND TIE ROD

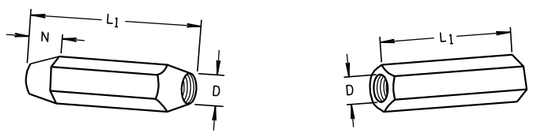
(JOINT TIES FOR 18" TO 66" DIA. CONCRETE PIPE)

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

ADJUSTABLE TIE ROD TABLE

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

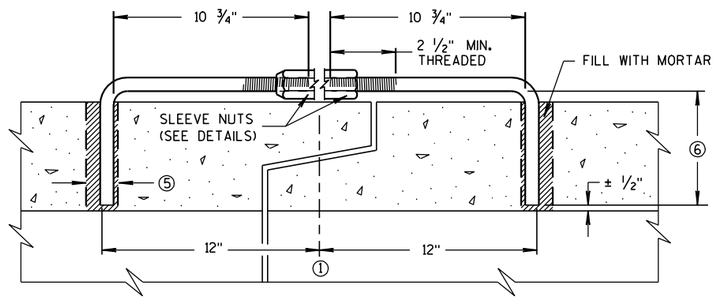
DIMENSIONS SHOWN ARE IN INCHES



TAPERED PLAIN

RIGHT AND LEFT THREADS

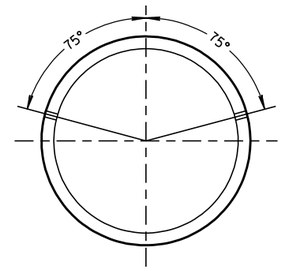
SLEEVE NUTS



LONGITUDINAL SECTION

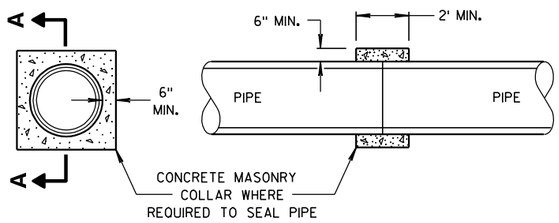
(JOINT TIES FOR 12" TO 108" DIA. CONCRETE PIPE)

ADJUSTABLE TIE ROD (ALTERNATE NO. 3)



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

TRANSVERSE SECTION



SECTION A-A

CONCRETE COLLAR DETAIL

JOINT TIES FOR CONCRETE PIPE AND CONCRETE COLLAR DETAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
6/5/2012 DATE
/S/ Jerry H. Zogg
ROADWAY STANDARDS ENGINEER
110
FHWA

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S.D.D. 8 F 4-7

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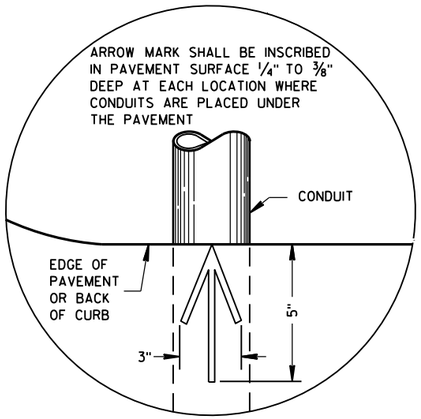
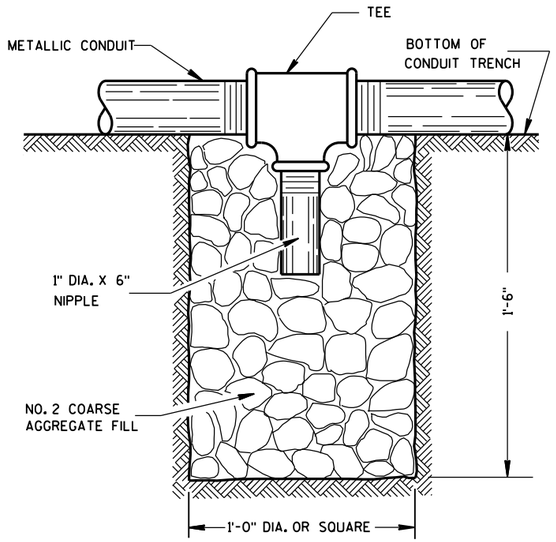
S.D.D. 8 F 4-7



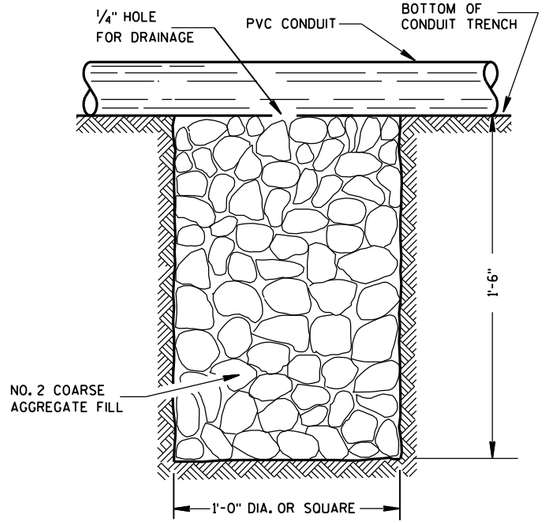
PLAN VIEW

ARROW MARK



NOTE: INSTALL AT LOCATIONS WHERE METALLIC CONDUITS CANNOT BE PITCHED TO DRAIN INTO A PULL BOX.

DRAIN SUMP FOR METALLIC CONDUIT



NOTE: INSTALL AT LOCATIONS WHERE PVC CONDUITS CANNOT BE PITCHED TO DRAIN INTO A PULL BOX.

DRAIN SUMP FOR PVC CONDUIT

GENERAL NOTES

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

METALLIC (STANDARD SPECIFICATION 652.2.2) OR NONMETALLIC (STANDARD SPECIFICATION 652.2.3) CONDUIT SHALL BE FURNISHED AND PLACED AS SHOWN.

DEPTH OF CONDUIT INSTALLED BELOW THE TRAVELED WAY SHALL BE 24 INCHES MINIMUM AND 36 INCHES MAXIMUM.

DEPTH OF CONDUIT INSTALLED THAT IS NOT BELOW THE TRAVELED WAY SHALL BE 18 INCHES MINIMUM AND 36 INCHES MAXIMUM.

ANY EXCEPTION TO THE MAXIMUM DEPTH SHALL BE ONLY WITH THE WRITTEN APPROVAL OF THE ENGINEER.

THE TRENCH SHALL NOT BE BACKFILLED PRIOR TO INSPECTION OF THE CONDUIT.

ALL METALLIC CONDUIT RACEWAY ENDS SHALL BE REAMED AND THREADED.

ALL METALLIC CONDUIT IN WHICH WIRE OR CABLE IS TO BE INSTALLED SHALL BE BUSHED WITH APPROVED THREADED BUSHINGS BEFORE INSTALLATION OF THE WIRE OR CABLE.

ALL METALLIC CONDUITS IN WHICH WIRE OR CABLE IS NOT TO BE INSTALLED SHALL BE CAPPED WITH THREADED PROTECTIVE CAPS, AS APPROVED BY THE ENGINEER.

ALL NONMETALLIC CONDUIT SHALL BE CAPPED OR PLUGGED IMMEDIATELY AFTER INSTALLATION AND SHALL REMAIN CAPPED OR PLUGGED UNTIL WIRE/CABLES ARE INSTALLED.

NONMETALLIC CONDUITS IN WHICH WIRE OR CABLE IS NOT BEING INSTALLED SHALL REMAIN CAPPED OR PLUGGED.

BENDING OF PVC ELECTRICAL CONDUIT SHALL BE ACCOMPLISHED BY USING A BLANKET OR EMERSION TYPE TANK DESIGNED FOR THE PURPOSE OF BENDING PVC ELECTRICAL CONDUIT.

ALL CUT ENDS SHALL BE TRIMMED INSIDE AND OUTSIDE TO REMOVE ALL ROUGH EDGES ON NONMETALLIC CONDUIT. (SEE NEC 347.5)

WHEN REQUIRED TO CONNECT NONMETALLIC CONDUIT TO METALLIC CONDUIT, ONLY U.L. LISTED ADAPTER FITTINGS SHALL BE USED.

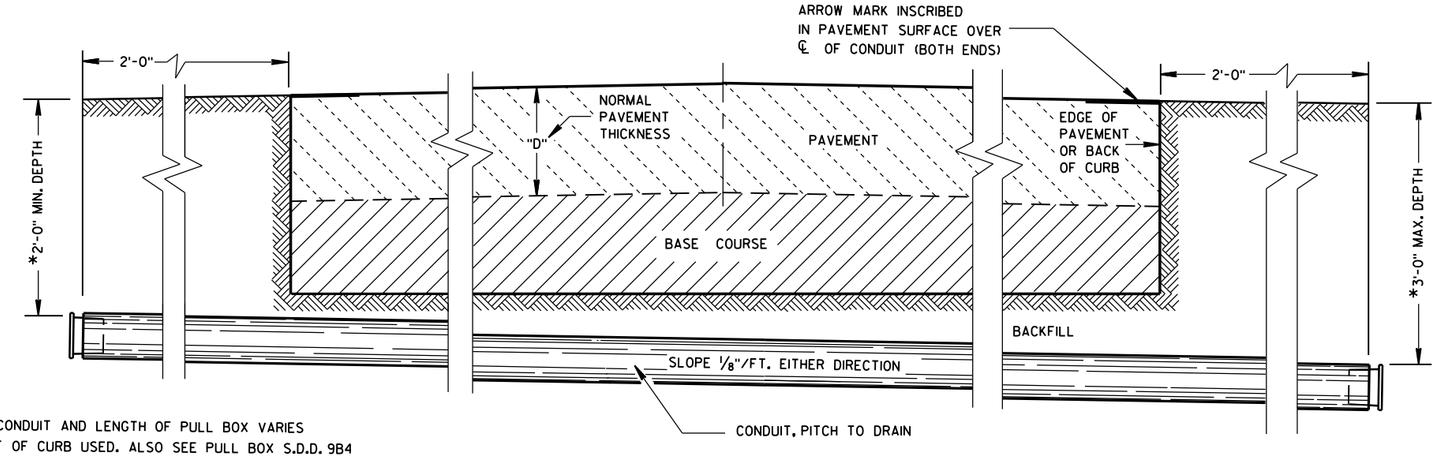
PRIOR TO CONDUIT ACCEPTANCE, CONDUIT CAPS OR PLUGS SHALL BE REMOVED, AND THE CAPS, PLUGS AND CONDUIT ENDS SHALL BE THOROUGHLY CLEANED AND THEN THE CAPS OR PLUGS REINSTALLED TO ENSURE THAT THE CAPS OR PLUGS CAN BE EASILY REMOVED IN THE FUTURE.

ALL CONDUIT BEING FURNISHED AND INSTALLED SHALL HAVE THE U.L. LABEL FIRMLY ATTACHED.

CONDUIT RUNS SHALL BE THE SAME SIZE OF CONDUIT FROM ONE END TO THE OTHER (FROM PULL BOX TO PULL BOX-OR-JUNCTION BOX TO JUNCTION BOX-OR-BASE TO BASE, ETC.).

TRACER WIRE SHALL BE INSTALLED AS STATED IN THE STANDARD SPECIFICATION, ITEM 652.3.1.1.

ALL CONDUIT RUNS SHALL BE STRAIGHT (WITHOUT BENDS) FROM PULL BOX TO PULL BOX, PULL BOX TO BASE AND BASE TO BASE AS SHOWN ON THE PLANS.



*DEPTH OF CONDUIT AND LENGTH OF PULL BOX VARIES WITH HEIGHT OF CURB USED. ALSO SEE PULL BOX S.D.D. 9B4

SIDE ELEVATION

DETAIL FOR CONDUIT UNDER PAVED HIGHWAYS

CONDUIT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June, 2015 — DATE
/S/ Ahmet Demirbilek — STATE ELECTRICAL
FHWA

6

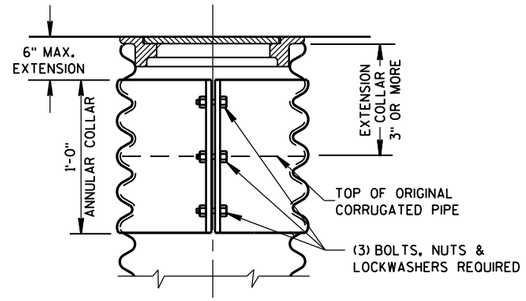
S.D.D. 9 B 2-9

TABLE OF NOMINAL DIMENSIONS AND WEIGHTS

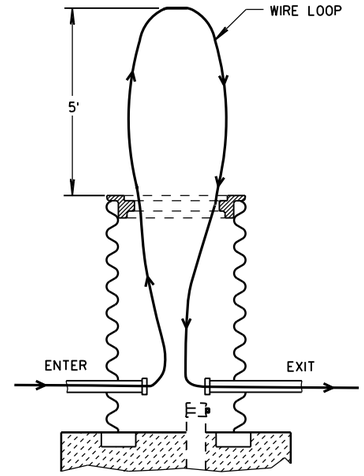
DIMENSION IN INCHES		CORRUGATED STEEL PIPE								
PIPE DIAMETER (INSIDE)	A	12	12	12	18	18	18	24	24	24
PIPE LENGTH **	B	24	30	36	24	30	36	36	42	48
WALL THICKNESS	C	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.064
COVER	D	10 1/4	10 1/4	10 1/4	16 1/4	16 1/4	16 1/4	22 1/4	22 1/4	22 1/4
FRAME	E	14 1/2	14 1/2	14 1/2	20 1/2	20 1/2	20 1/2	26 1/2	26 1/2	26 1/2
FRAME	F	8 1/2	8 1/2	8 1/2	14 1/2	14 1/2	14 1/2	20 1/2	20 1/2	20 1/2
FRAME	G	11 1/2	11 1/2	11 1/2	17 1/2	17 1/2	17 1/2	23 1/2	23 1/2	23 1/2
WEIGHT IN POUNDS *										
FRAME AND COVER		60	60	60	110	110	110	155	155	155

* THE ACTUAL WEIGHT OF THE MANHOLE FRAME AND COVER MAY VARY WITHIN 5 PERCENT PLUS OR MINUS OF THE WEIGHTS SHOWN.

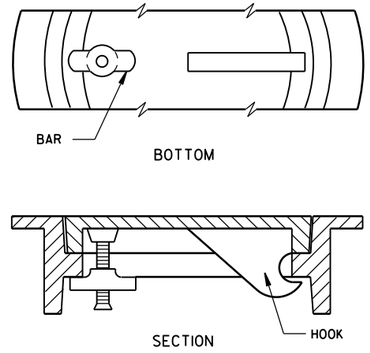
** NORMALLY USED LENGTHS. THE PROJECT ENGINEER SHALL DETERMINE IF PIPE LENGTHS, OTHER THAN THOSE SPECIFIED, SHALL BE USED, TO A MAXIMUM OF 48" (CONTINUOUS LENGTH, NON-SPLICED). THE ADDITIONAL LENGTH SHALL BE INCIDENTAL TO THE PULL BOX BID PRICE.



CORRUGATED PIPE EXTENDER

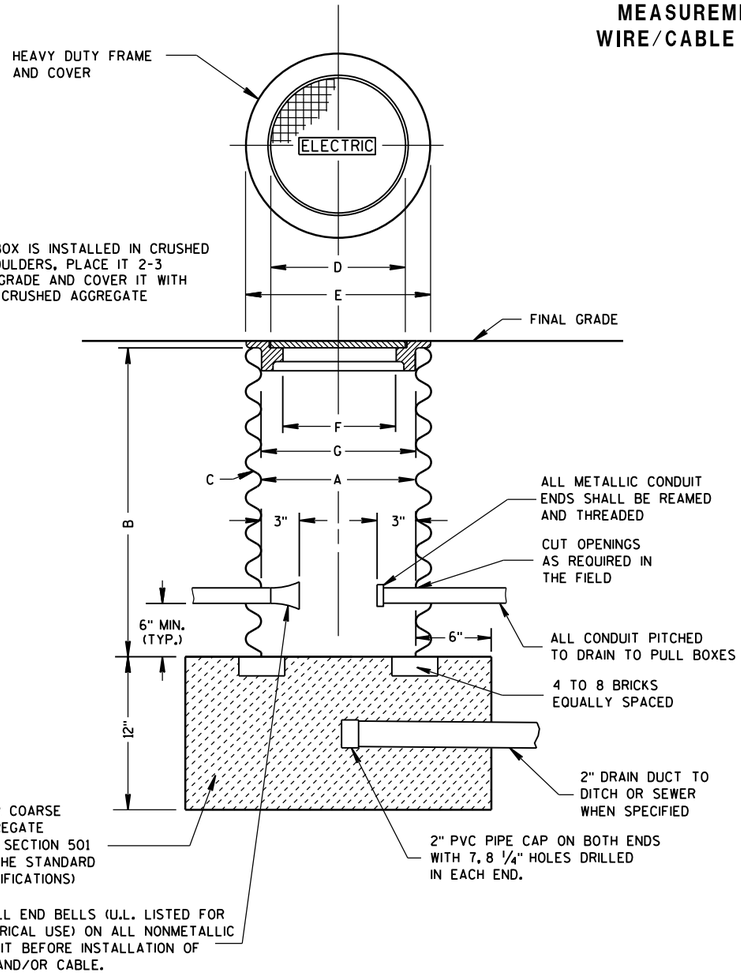


MEASUREMENT DETAIL FOR WIRE/CABLE IN THE PULL BOX



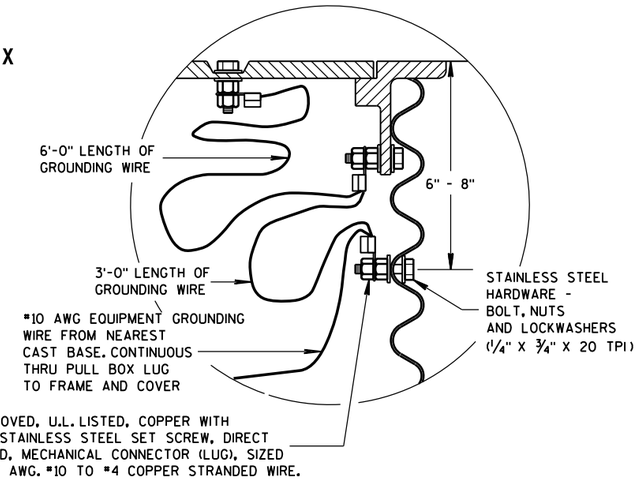
ALTERNATE COVER (LOCKING)

TIGHTENING BAR TYPE



WHEN A PULL BOX IS INSTALLED IN CRUSHED AGGREGATE SHOULDERS, PLACE IT 2-3 INCHES BELOW GRADE AND COVER IT WITH 2-3 INCHES OF CRUSHED AGGREGATE

PULL BOX



EQUIPMENT GROUNDING LUG AND LOCATION IN STEEL PULL BOXES

GENERAL NOTES

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

ALL FRAMES AND COVERS SHALL BE HEAVY DUTY TYPE, SUITABLE FOR VEHICULAR TRAFFIC LOADS.

PULL BOXES LOCATED IN THE ROADWAYS SHALL HAVE LOCKING COVERS.

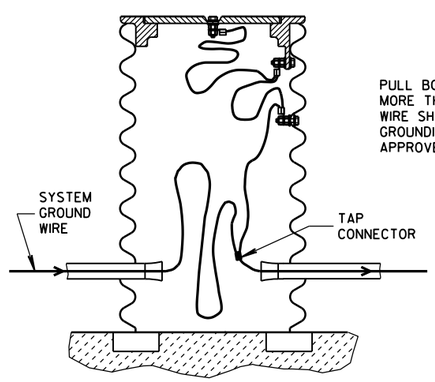
ENTRANCE HOLES INTO PULL BOXES SHALL BE CUT WITH A CIRCULAR HOLE SAW OR HYDRAULIC CONDUIT PUNCH. HOLE SIZE SHALL BE THE OUTSIDE DIAMETER OF THE CONDUIT THAT IS TO FIT IN THE OPENING PLUS NO MORE THAN 1/4".

THE CONTRACTOR SHALL NOT INSTALL WIRE IN ANY PULL BOX UNTIL ITS INSTALLATION HAS BEEN INSPECTED AND ACCEPTED BY THE ENGINEER.

GROUNDING LUGS (MECHANICAL CONNECTORS) SHALL BE U.L. LISTED AND APPROVED FOR USE WITH COPPER WIRE.

ALL METALLIC CONDUIT IN WHICH WIRE AND/OR CABLE IS TO BE INSTALLED, SHALL BE BUSHED BEFORE INSTALLATION OF THE WIRE AND/OR CABLE.

WHEN PULL BOXES ARE INSTALLED FOR FUTURE USE, DO NOT INSTALL THE EQUIPMENT GROUNDING LUG. THE EQUIPMENT GROUNDING LUG, THE EQUIPMENT GROUNDING ELECTRODE AND THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE REQUIRED AND INSTALLED UNDER A FUTURE WIRING CONTRACT.



PULL BOX TO NEAREST BASE DISTANCE MORE THAN 20 FEET. PULL BOX GROUND WIRE SHALL CONNECT AT SYSTEM GROUNDING WIRE. USE DEPARTMENT APPROVED TAP CONNECTOR.

EQUIPMENT GROUNDING LUG AND LOCATION IN STEEL PULL BOXES

PULL BOX

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept. 2014 — DATE
/S/ Ahmet Demirbilek — STATE ELECTRICAL
FHWA

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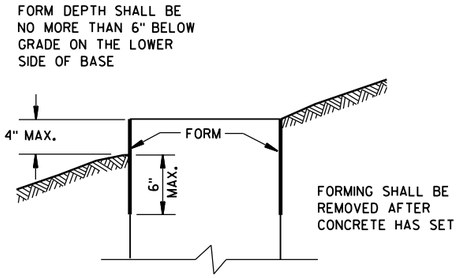


FORMING DETAIL

QUANTITY REQUIREMENTS	CONCRETE BASE TYPE		
	1	2	5 & 6
APPROX. CUBIC YARDS OF CONCRETE	0.40	0.57	0.40
LBS. OF HOOP BAR STEEL	NONE	23	16
LBS. OF VERTICAL BAR STEEL	NONE	60	18

GENERAL NOTES

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

BASES SHALL BE EXCAVATED BY USE OF A CIRCULAR AUGER.

TOP SURFACES OF CONCRETE BASES SHALL BE TROWEL FINISHED SMOOTH AND LEVEL.

CONDUIT SIZES AND LOCATIONS SHALL BE AS SHOWN ON THE PLANS.

THE FINAL OR TERMINATING CONCRETE BASE IN A CONDUIT RUN SHALL HAVE A 6" EXIT STUB INSTALLED FOR FUTURE CABLING USE. THE EXIT STUB SHALL BE SIZED AS USED THROUGHOUT THE CONDUIT RUN AS SHOWN AT THE ENTRANCE OF THE BASE.

MINIMUM BENDING RADIUS OF CONDUIT IS EQUAL TO 6 X THE DIAMETER.

CONDUIT HEIGHT ABOVE CONCRETE BASES SHALL BE 1 INCH. ALL METALLIC CONDUIT ENDS SHALL BE REAMED AND THREADED.

ALL CONDUIT ENDS AT THE TOP OF CONCRETE BASES SHALL BE CAPPED IF METALLIC OR PLUGGED IF NONMETALLIC IMMEDIATELY AFTER PLACEMENT AND BEFORE CONCRETE IS POURED. CONDUITS IN WHICH WIRE OR CABLE IS NOT INSTALLED SHALL REMAIN CAPPED OR PLUGGED.

GENERAL NOTES (CONTINUED)

BELL ENDS SHALL BE INSTALLED ON ALL PVC CONDUIT EXPOSED AT THE TOP OF CONCRETE BASES BEFORE INSTALLATION OF CABLE OR WIRE.

ENDS OF CONDUIT INSTALLED BELOW GRADE FOR FUTURE USE SHALL BE CAPPED IF METALLIC OR PLUGGED IF NONMETALLIC.

WHEN REQUIRED TO CONNECT NONMETALLIC CONDUIT TO METALLIC CONDUIT, ONLY ADAPTER FITTINGS, U.L. LISTED FOR ELECTRICAL USE, SHALL BE USED.

IF A BASE REQUIRES A DEEP FORM BECAUSE OF LOOSE DIRT OR FILL, THE FORM SHALL BE REMOVED BEFORE BACKFILLING AROUND THE BASE. BACKFILL SHALL BE TAMPED TIGHT AGAINST THE BARE CONCRETE BASE IN LAYERS OF 1 FOOT OR LESS.

A NO. 4 AWG, STRANDED COPPER EQUIPMENT GROUNDING CONDUCTOR SHALL BE EXOTHERMICALLY WELDED TO THE EQUIPMENT GROUNDING ELECTRODE (GROUND ROD) FOR TYPE 1, TYPE 2, TYPE 5, AND TYPE 6 BASES.

THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE FURNISHED AND INSTALLED TO ENTER THE BASE OF THE TYPE 2 AND TYPE 5 BASES THROUGH A 1 INCH CONDUIT INSTALLED FOR GROUNDING PURPOSES, LEAVING A 4 FOOT COIL OF WIRE ABOVE THE CONCRETE BASE. THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE NEATLY COILED AND THE COILS TIED TOGETHER.

ANCHOR RODS SHALL BE THREADED 12" IN LENGTH ON EACH END OF THE ROD. ANCHOR RODS SHALL BE MANUFACTURED IN ACCORDANCE WITH SECTION 654.2.1 OF THE STANDARD SPECIFICATIONS.

WASHERS AND LOCK WASHERS ARE REQUIRED ON ALL ANCHOR RODS.

WHEN ANCHOR RODS USING THE ALTERNATE "L" BEND ARE FURNISHED, THE 4" "L" BEND SHALL BE IN ADDITION TO THE SPECIFIED ANCHOR ROD BAR LENGTH. THE "L" BEND END SHALL NOT BE THREADED.

ANCHOR RODS SHALL BE INSTALLED WITH MISALIGNMENTS OF LESS THAN 1:40 FROM VERTICAL.

WELDING OF THE ANCHOR RODS TO THE CAGE IS UNACCEPTABLE. TIE WIRES SHALL BE USED.

BAR STEEL REINFORCEMENT SHALL BE COATED WITH POWDERED EPOXY RESIN IN ACCORDANCE WITH SECTION 505 OF THE STANDARD SPECIFICATIONS (LATEST EDITION).

(1) THE MINIMUM DEPTH OF CONDUIT EXITING THE CONCRETE BASE AND INSTALLED BELOW THE TRAVELED WAY SHALL BE 24 INCHES. THE MINIMUM DEPTH OF CONDUIT EXITING THE CONCRETE BASE THAT IS NOT INSTALLED BELOW THE TRAVELED WAY SHALL BE 18 INCHES. THE MAXIMUM DEPTH OF ALL CONDUIT SHALL BE 36 INCHES EXCEPT WITH WRITTEN APPROVAL BY THE ENGINEER.

(2) (4) 1" DIA. X 3'-6" ANCHOR RODS.

(3) (4) 1" DIA. X 5'-0" ANCHOR RODS.

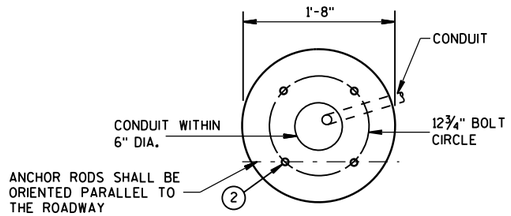
(4) (6) NO. 6 X 6'-8" BAR STEEL REINFORCEMENT.

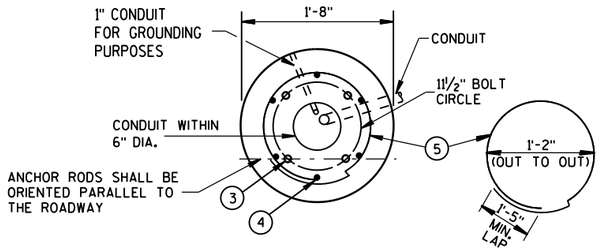
(5) (7) NO. 4 X 5'-1" BAR STEEL REINFORCEMENT @ 1'-0" C-C.

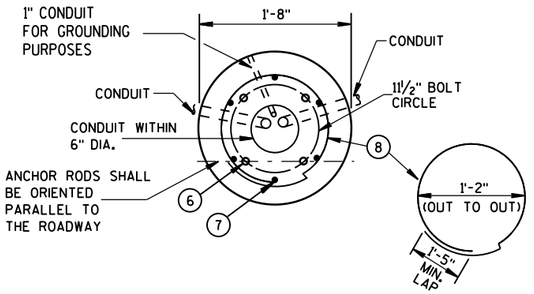
(6) (4) 1" DIA. X 3'-6" ANCHOR RODS.

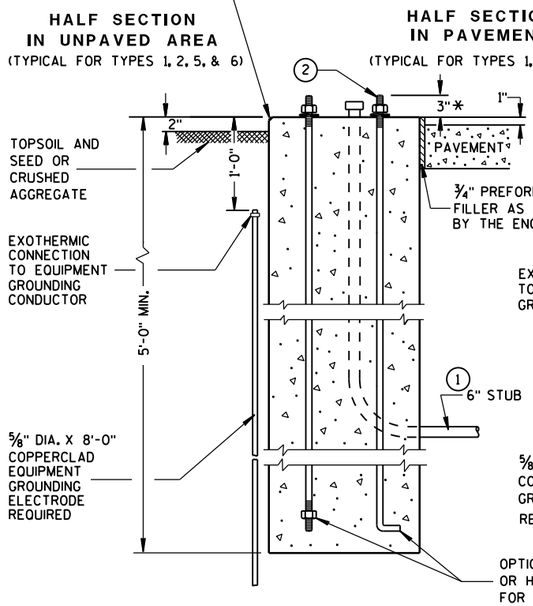
(7) (6) NO.4 X 4'-8" BAR STEEL REINFORCEMENT.

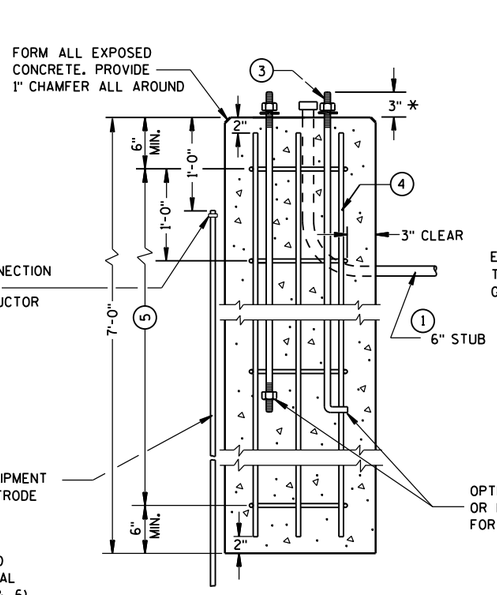
(8) (5) NO. 4 X 5'-1" BAR STEEL REINFORCEMENT @ 1'-0" C-C.



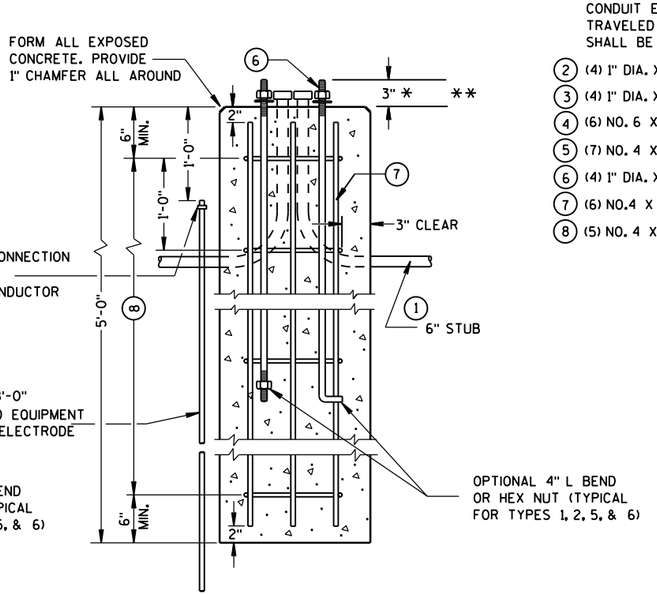








TYPE 2



TYPE 5 & 6

CONCRETE BASES

* ANY ANCHOR ROD PROJECTION SHORTER THAN 2¾" OR LONGER THAN 3¼" SHALL REQUIRE THE BASE TO BE REMOVED AND REPLACED AT THE CONTRACTORS EXPENSE.

** FOR NONBREAKAWAY INSTALLATIONS, 4½" ± ANCHOR ROD PROJECTION WITH THE USE OF LEVELING NUTS. RODENT SCREEN REQUIRED.

CONCRETE BASES, TYPES 1, 2, 5, & 6

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept. 2014 — DATE
/S/ Ahmet Demirbilek — STATE ELECTRICAL
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GENERAL NOTES

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

FOUR (4) BOLTS SHALL BE FURNISHED WITH EACH TRANSFORMER BASE. BOLTS SHALL BE 1" DIAMETER, 4" IN LENGTH, WITH WASHERS, LOCK WASHERS AND NUTS. BOLTS, NUTS AND WASHERS SHALL BE MANUFACTURED IN ACCORDANCE WITH SECTION 641.2.2 OF THE STANDARD SPECIFICATIONS.

LEVELING SHIMS, IF NEEDED, SHALL BE DESIGNED FOR THE PURPOSE AND USED UNDER CAST BASES WHEN PLUMBING POLES OR STANDARDS DURING INSTALLATION. THE USE OF WASHERS IN LIEU OF PROPER LEVELING SHIMS IS NOT ACCEPTABLE.

SHIM LENGTH SHALL BE LONG ENOUGH TO COMPLETELY COVER THE AREA UNDER THE LENGTH AND WIDTH OF THE BASE MOUNTING FLANGE.

DOUBLE NUTTING IS NOT ACCEPTABLE FOR LEVELING OR MOUNTING PURPOSES.

A NEMA APPROVED, U.L. LISTED, COPPER WITH BRASS OR STAINLESS STEEL SET SCREW, DIRECT BURY RATED, MECHANICAL CONNECTOR (LUG), SIZED TO ACCEPT AWG. #10 TO #4 COPPER STRANDED WIRE SHALL BE FURNISHED AND INSTALLED IN THE PEDESTAL AND TRANSFORMER BASES.

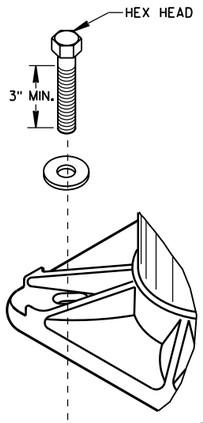
THE MECHANICAL CONNECTOR SHALL BE INSTALLED USING A 1/4" - 20 (TPI) STAINLESS STEEL HEX HEAD BOLT OF SUFFICIENT LENGTH TO FIRMLY ATTACH THE LUG TO THE BASE.

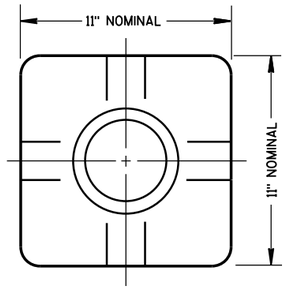
SHOULD THE MANNER OF ATTACHMENT OF THE LUG REQUIRE WASHERS, HEX NUTS, LOCK WASHER - THEY SHALL BE STAINLESS STEEL AS IS THE BOLT. THE MANNER OF ATTACHMENT SHALL NOT BLOCK ACCESSIBILITY TO WIRE PLACEMENT IN THE CONNECTOR.

PEDESTAL BASE COLLAR THREADING SHALL BE TAPERED AND IN ACCORDANCE WITH NATIONAL PIPE THREADING DIMENSIONS.

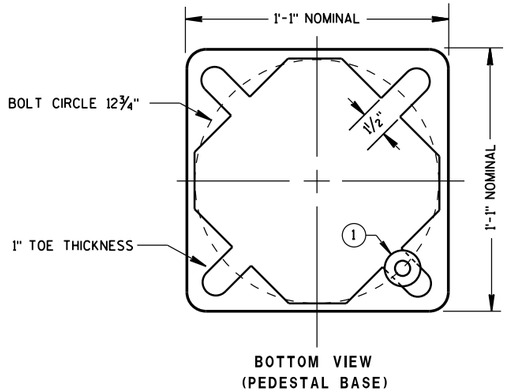
BASE COLLAR THREADING SHALL EXTEND INTO THE BASE COLLAR WITH SUFFICIENT DEPTH TO ACCEPT THE INSTALLATION OF TRAFFIC SIGNAL STANDARDS TO A DEPTH OF 1 1/2", THEN TIGHTENING TO A POINT OF BEING IMMOVABLE.

THE ACCESS DOOR SHALL BE OF THE SAME MATERIAL AS THE BASE.

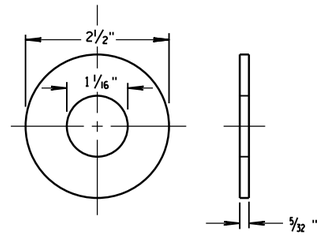




TOP VIEW
(PEDESTAL BASE)

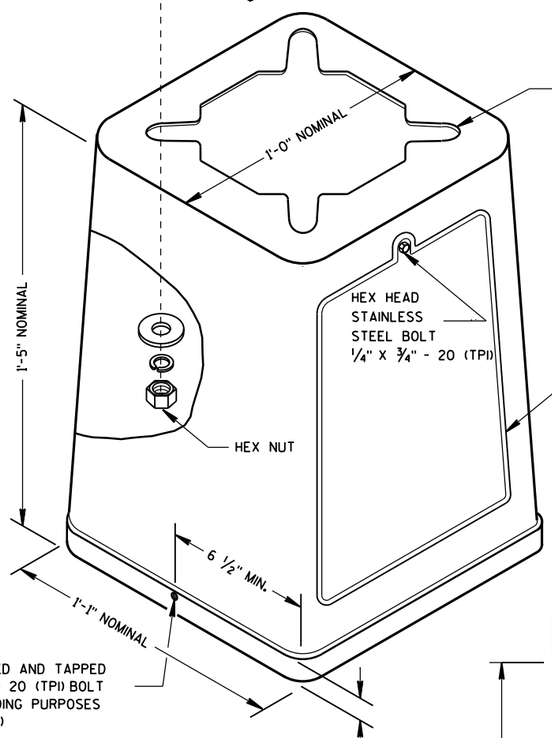


BOTTOM VIEW
(PEDESTAL BASE)

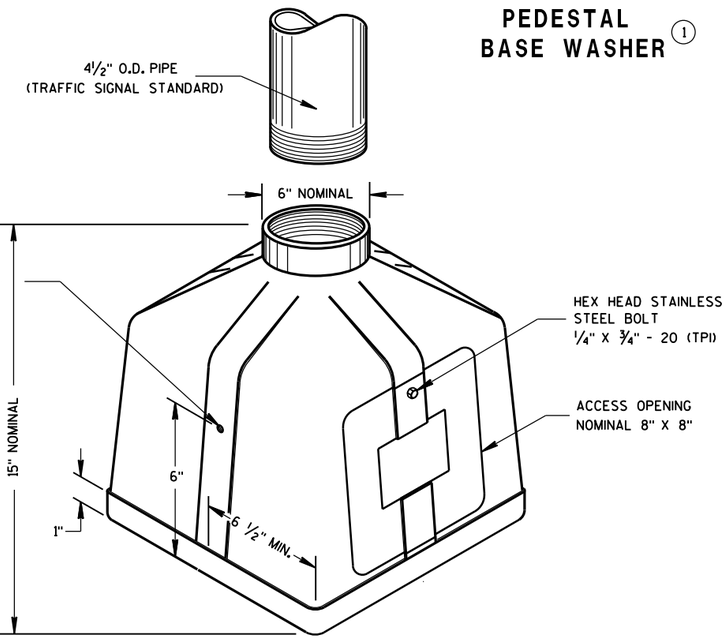


ZINC COATED STEEL WASHER
TO BE PROVIDED BY THE CONTRACTOR

PEDESTAL BASE WASHER (1)

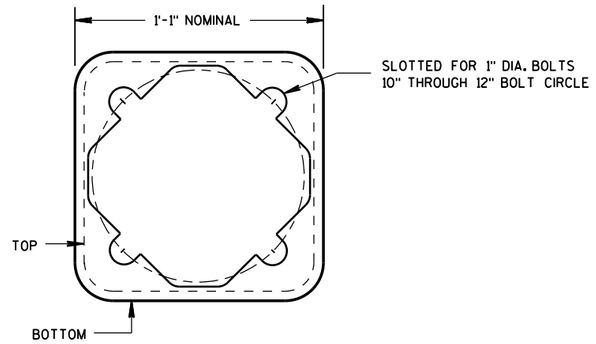


ISOMETRIC VIEW

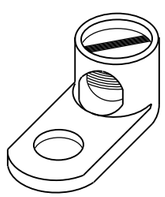


ISOMETRIC VIEW

PEDESTAL BASE



BOTTOM VIEW
(TRANSFORMER BASE)

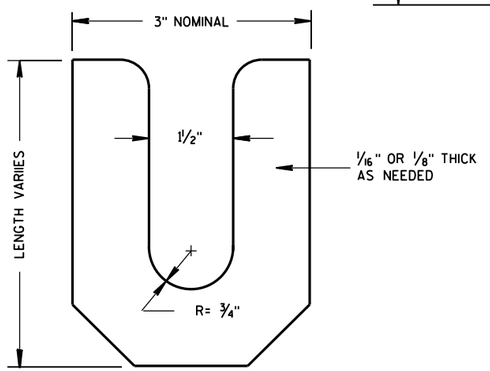


TYPICAL MECHANICAL CONNECTOR LUG

TO BE FURNISHED WITH EACH BASE

TRANSFORMER BASE

INTENDED FOR USE WITH TYPE 2, 3, 4, 5 & 6 POLES



LEVELING SHIM

TRANSFORMER/PEDESTAL BASES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept. 2014 — DATE
/S/ Ahmet Demirbilek — STATE ELECTRICAL
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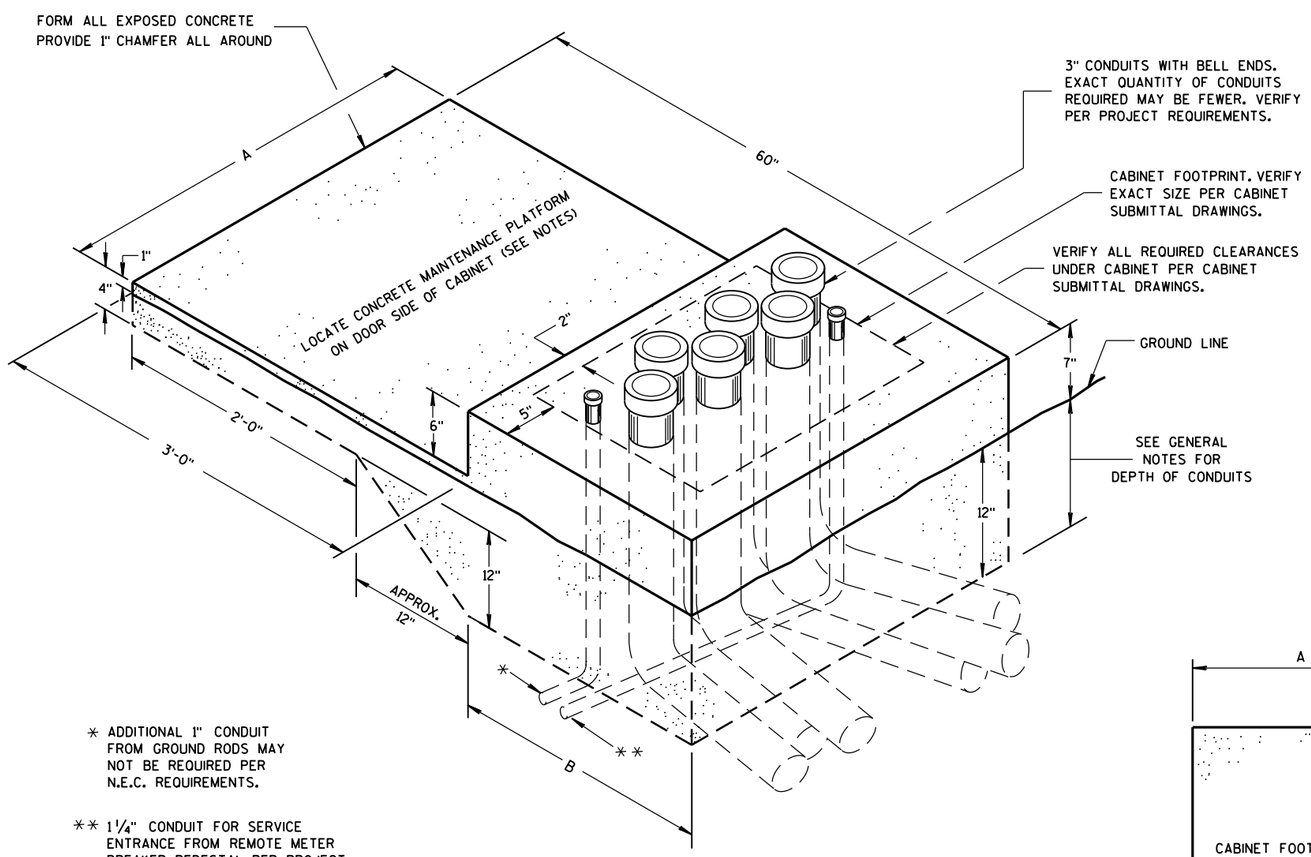


* ADDITIONAL 1" CONDUIT FROM GROUND RODS MAY NOT BE REQUIRED PER N.E.C. REQUIREMENTS.

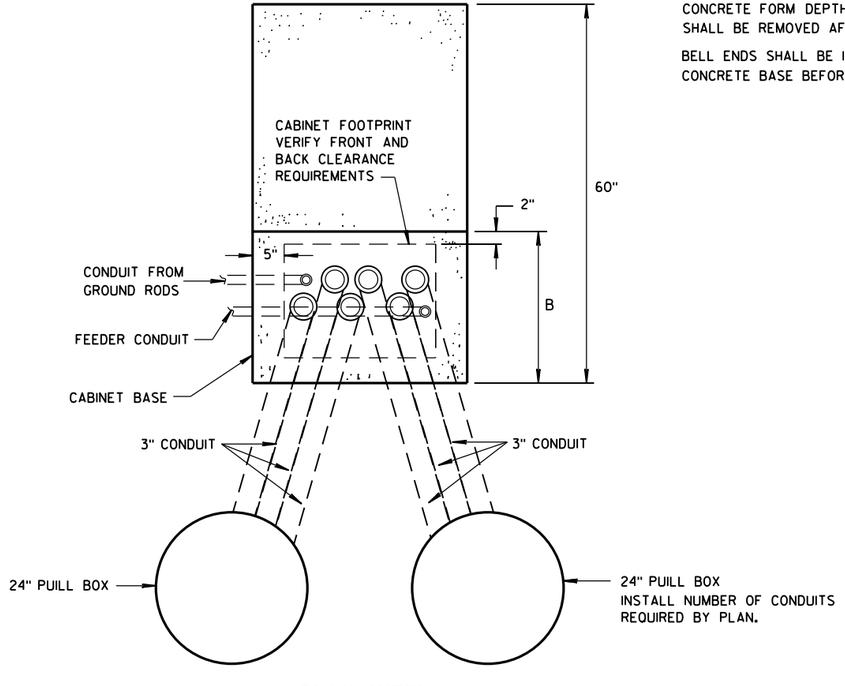
** 1¼" CONDUIT FOR SERVICE ENTRANCE FROM REMOTE METER BREAKER PEDESTAL PER PROJECT REQUIREMENTS. VERIFY LOCATION OF CONDUIT DEPENDENT UPON LOCATION OF INCOMING FEEDER AND FOR EASE OF CONNECTION TO LOAD CENTER.

ISOMETRIC VIEW

CONCRETE CONTROL CABINET BASE, TYPE L

(C.Y. CONCRETE = APPROX. 0.4)

CONCRETE BASE TYPE	CABINET WIDTH	DIMENSIONS		MAXIMUM 3" CONDUITS
		A	B	
L24	24"	34"	24"	4
L30	30"	40"	24"	6



PLAN VIEW

CONCRETE CONTROL CABINET BASE, TYPE L

GENERAL NOTES

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

INSTALL FOUR STAINLESS STEEL APPROVED CONCRETE MASONRY ANCHORS TO ANCHOR THE CABINET BASES. THE ANCHORS SHALL BE LOCATED AS DIRECTED BY THE ENGINEER TO PROPERLY ANCHOR THE CONTROL CABINET TO THE BASE.

WHEN REQUIRED TO CONNECT NONMETALLIC CONDUIT TO METALLIC CONDUIT, ONLY ADAPTER FITTINGS, U.L. LISTED FOR ELECTRICAL USE, SHALL BE USED.

CONDUIT HEIGHT ABOVE THE CONCRETE BASE SHALL BE 1 INCH.

DEPTH OF CONDUIT INSTALLED BELOW THE TRAVELED WAY SHALL BE 24 INCHES MINIMUM AND 36 INCHES MAXIMUM.

DEPTH OF CONDUIT INSTALLED THAT IS NOT BELOW THE TRAVELED WAY SHALL BE 18 INCHES MINIMUM AND 36 INCHES MAXIMUM.

ANY EXCEPTION TO THE MAXIMUM DEPTH SHALL BE ONLY WITH THE WRITTEN APPROVAL OF THE ENGINEER.

CONTROL CABINET BASE TOP SURFACE SHALL BE TROWEL FINISHED SMOOTH AND LEVEL.

MAINTENANCE PLATFORM SHALL BE FLOAT OR BROOM FINISHED AND BE LEVEL.

MAINTENANCE PLATFORMS ARE NOT REQUIRED WHEN THE SURROUNDING AREA IS PAVED.

MINIMUM BENDING RADIUS OF CONDUIT = 6 X THE DIAMETER.

ALL METALLIC CONDUIT ENDS SHALL BE REAMED AND THREADED.

CAP ALL BELOW GRADE METALLIC CONDUIT ENDS IN WHICH WIRE OR CABLE IS NOT BEING INSTALLED.

PLUG ALL BELOW GRADE NONMETALLIC CONDUIT ENDS IN WHICH WIRE OR CABLE IS NOT BEING INSTALLED.

ALL CONDUIT ENDS AT THE TOP OF CONCRETE BASES SHALL BE CAPPED IF METALLIC OR PLUGGED IF NONMETALLIC IMMEDIATELY AFTER PLACEMENT AND BEFORE CONCRETE IS POURED. CONDUITS IN WHICH WIRE OR CABLE IS NOT BEING INSTALLED SHALL REMAIN CAPPED OR PLUGGED.

CONDUIT EXITING THE CONCRETE BASE SHALL TERMINATE IN PULL BOXES AS SHOWN ON THE PLANS.

CONCRETE FORM DEPTH BELOW FINISHED GRADE SHALL BE 6" MAXIMUM. CONCRETE FORMS SHALL BE REMOVED AFTER CONCRETE HAS SET.

BELL ENDS SHALL BE INSTALLED ON ALL PVC CONDUIT EXPOSED AT THE TOP OF THE CONCRETE BASE BEFORE INSTALLATION OF CABLE OR WIRE.

CONCRETE CONTROL CABINET BASE, TYPE L

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Nov. 2014 — DATE
/S/ Thomas Gonring — STATE LIGHTING ENGINE
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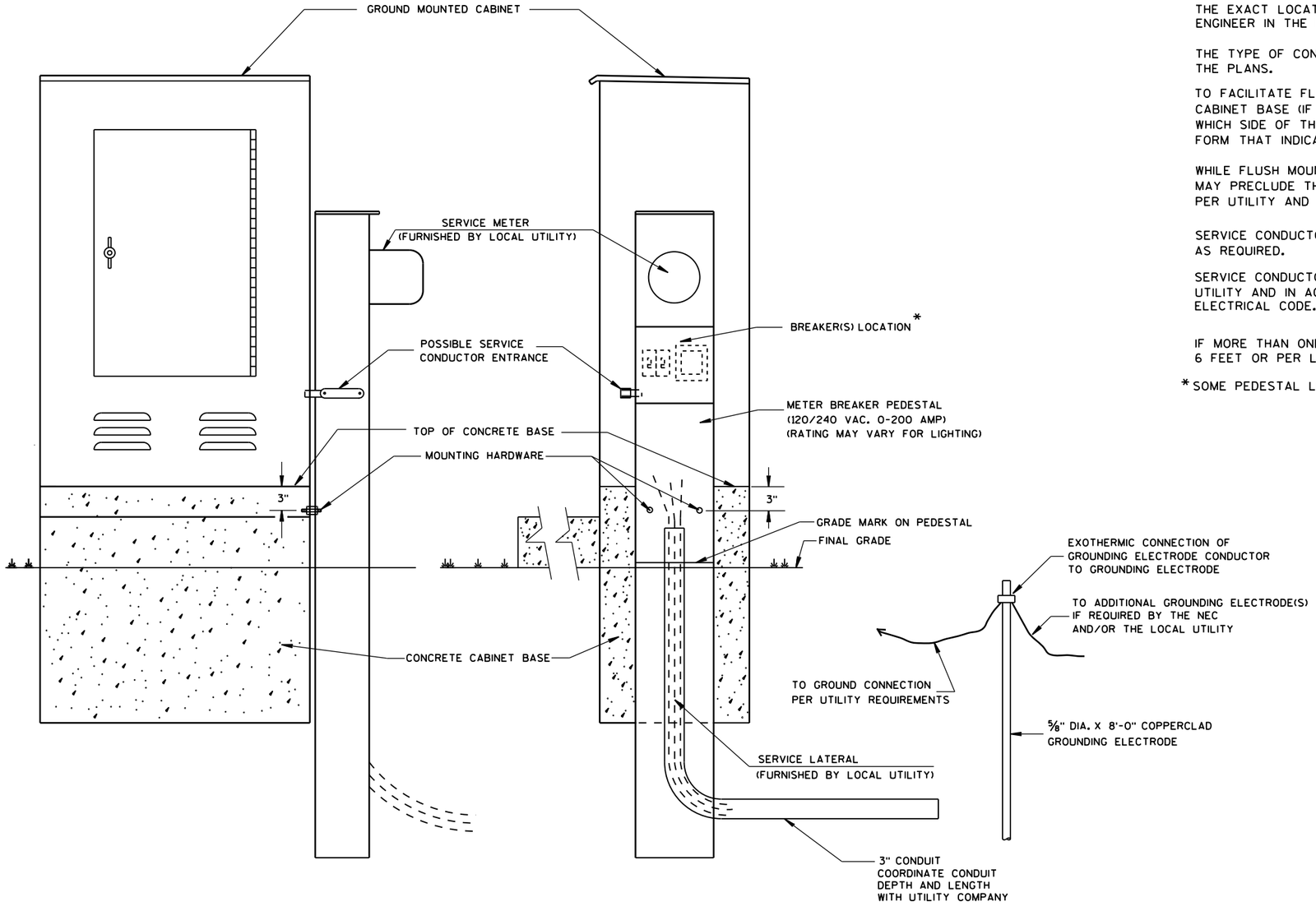

TYPICAL CABINET SERVICE INSTALLATION

GENERAL NOTES

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

THE EXACT LOCATION OF THE METER BREAKER PEDESTAL SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD.

THE TYPE OF CONCRETE CABINET BASE TO BE INSTALLED SHALL BE AS CALLED FOR IN THE PLANS.

TO FACILITATE FLUSH MOUNTING OF THE METER BREAKER PEDESTAL AGAINST THE SIDE OF THE CABINET BASE (IF FLUSH MOUNTING POSSIBLE. CONFER WITH THE LOCAL UTILITY TO DETERMINE WHICH SIDE OF THE CONCRETE BASE THE ELECTRICAL SERVICE LATERAL WILL APPROACH. THEN FORM THAT INDICATED SIDE FOR FULL SIDE DEPTH.

WHILE FLUSH MOUNTING IS THE MOST DESIRABLE MOUNTING CONFIGURATION UTILITY REQUIREMENTS MAY PRECLUDE THIS OPTION. CONTRACTOR MUST PROVIDE UTILITY APPROVED PEDESTAL AND INSTALL PER UTILITY AND MANUFACTURERS REQUIREMENTS.

SERVICE CONDUCTOR ENTRANCES SHALL BE RIGID METALLIC CONDUIT, NIPPLES AND/OR CONDULETS AS REQUIRED.

SERVICE CONDUCTOR ENTRANCES SHALL BE SIZED AND LOCATED AS REQUIRED BY THE LOCAL UTILITY AND IN ACCORDANCE WITH APPROPRIATE ARTICLES OF THE LATEST ACCEPTED NATIONAL ELECTRICAL CODE.

IF MORE THAN ONE GROUNDING ELECTRODE IS REQUIRED, THE DISTANCE APART SHALL BE 6 FEET OR PER LOCAL UTILITY REGULATIONS.

* SOME PEDESTAL LIGHTING PLANS SHOW MAIN LUGS ONLY.

CABINET SERVICE INSTALLATION (METER BREAKER PEDESTAL)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept. 2014 — DATE
/S/ Ahmet Demirbilek — STATE ELECTRICAL
FHWA

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S.D.D. 9 D 1-5

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.

ALL INTERNAL ELECTRICAL COMPONENTS WILL BE PRE-WIRED BY THE CABINET FABRICATOR.

ALL CONDUIT ENTRIES SHALL BE SEALED WITH AN APPROPRIATE DUCT SEALING COMPOUND.

ORIENT PHOTOCELL AWAY FROM AMBIENT LIGHT SOURCES AND ONCOMING TRAFFIC HEADLIGHTS.

THE CONTRACTOR SHALL TOUCH UP ANY DAMAGE TO THE ANODIZED FINISH CAUSED BY THE INSTALLATION PROCESS. COLOR MATCH PAINT SHALL BE USED.

A COMPLETE LIGHTING OR ELECTRICAL PLAN SHALL BE SECURELY PLACED IN THE DOCUMENT HOLDER ATTACHED TO THE DOOR.

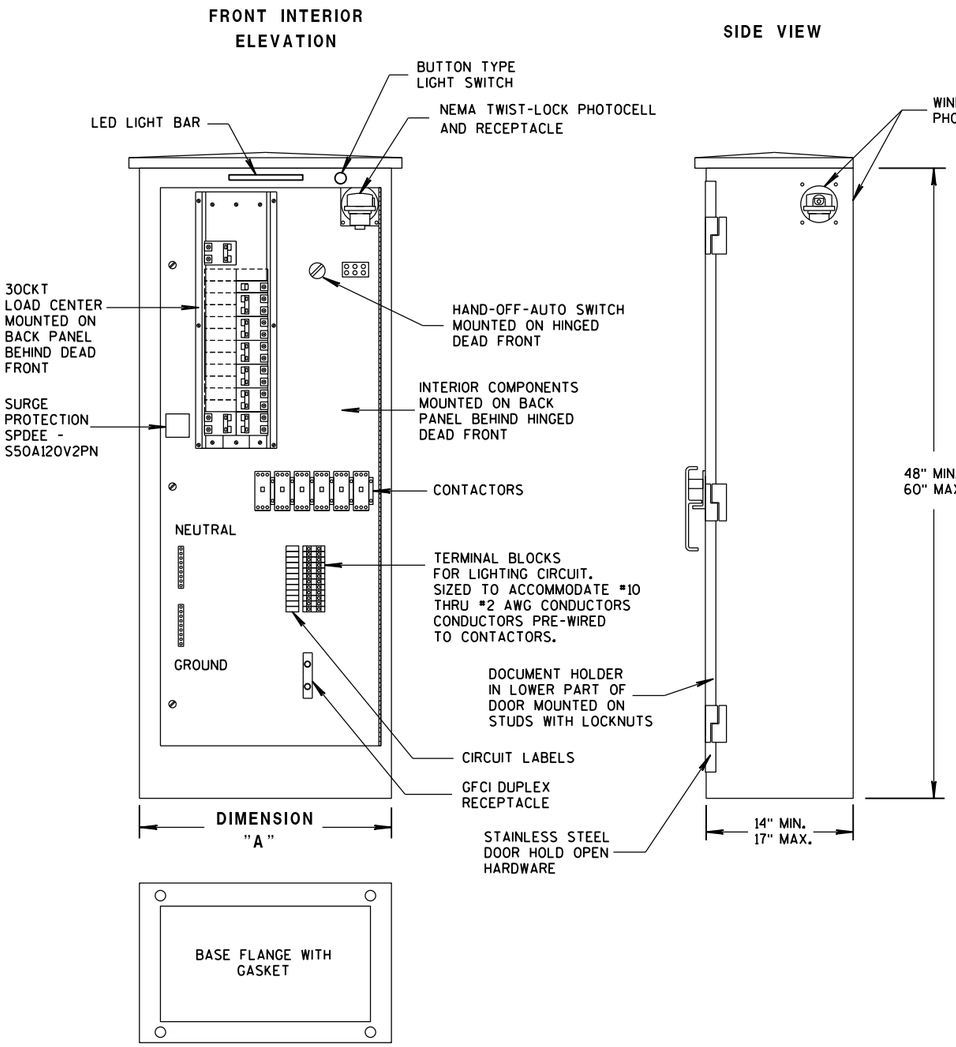
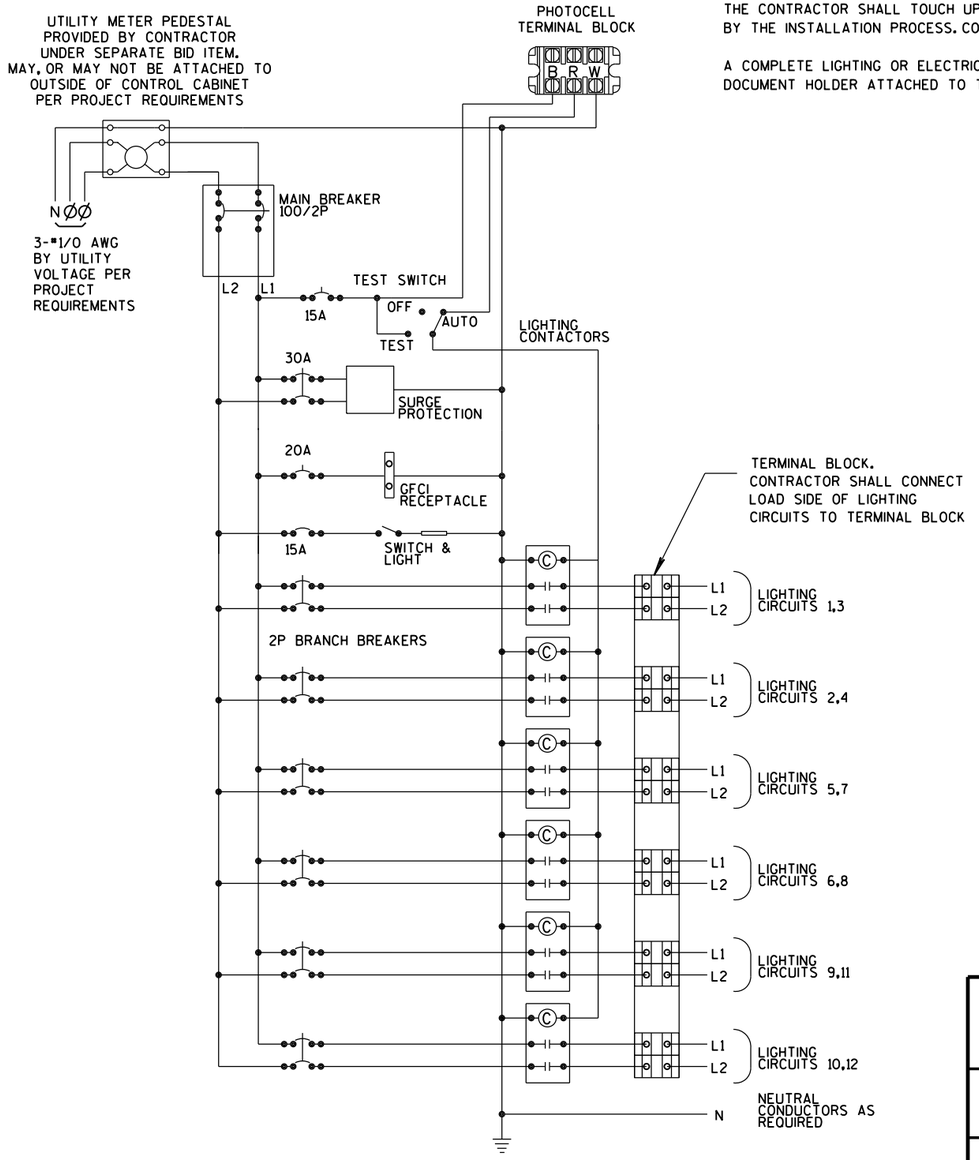


TABLE OF DIMENSIONS (INCHES)

CONCRETE BASE TYPE	CABINET WIDTH	DIMENSION "A"
L24	24"	24"
L30	30"	30"

LIGHTING CONTROL CABINET



CONTROL CABINET SCHEMATIC

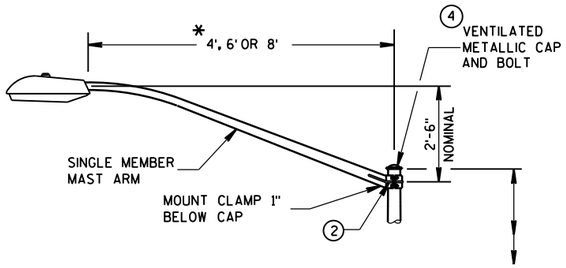
LIGHTING CONTROL CABINET 120/240 VOLT

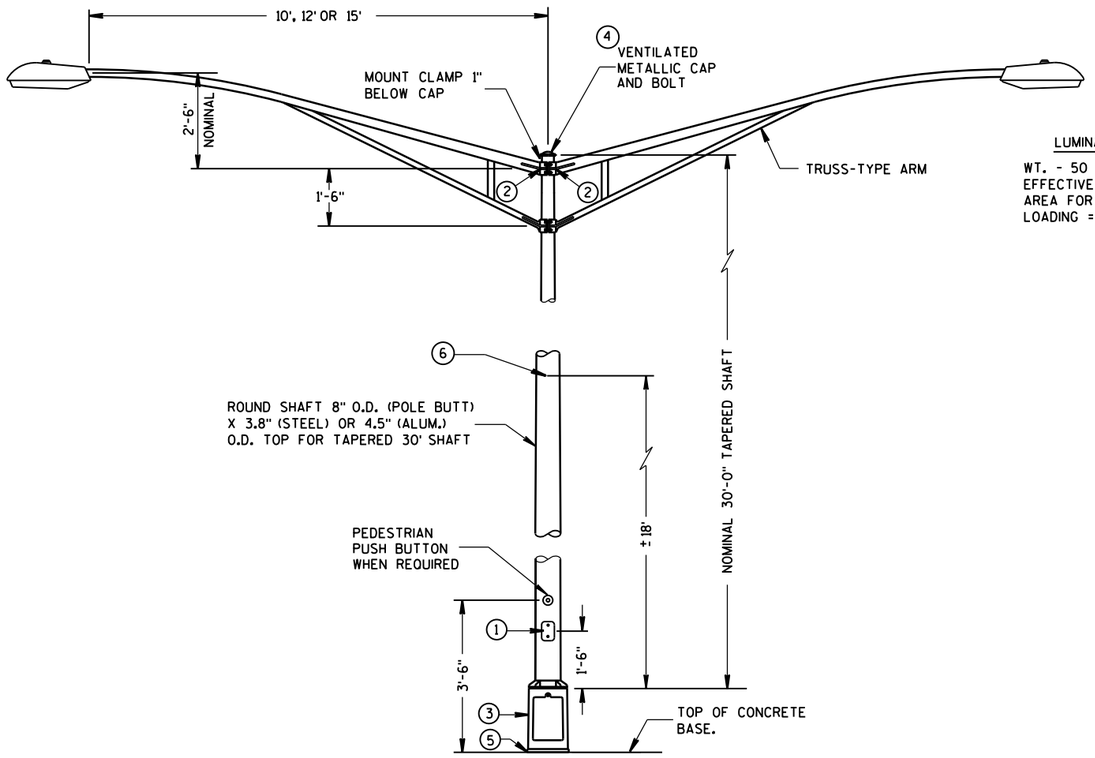
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept. 2014 — DATE
/S/ Thomas Gonring — STATE LIGHTING ENGINEER
FHWA

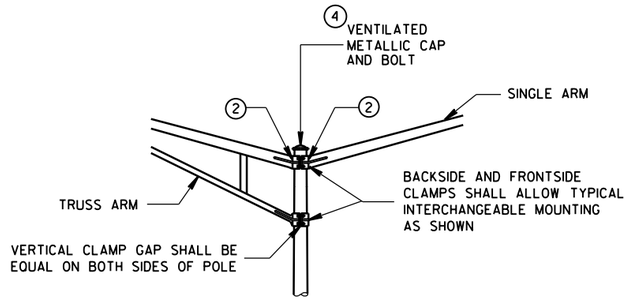
6
S.D.D. 9 D 4-2

*RISE FOR 4' ARM SHALL BE 2'-0".





TYPE 5 POLE MOUNTING CONFIGURATION
(MAXIMUM LOAD)
LIGHTING ONLY



INTERCHANGEABLE MOUNTING DETAIL

LUMINAIRE

WT. - 50 LBS.
EFFECTIVE PROJECTED
AREA FOR WIND
LOADING = 1.5 SQ. FT.

GENERAL NOTES

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

ALL TYPE 5 POLE MOUNTINGS SHALL BE DESIGNED TO INCLUDE TWIN 15' ARMS WITH LUMINAIRES.

POLES SHALL BE GALVANIZED STEEL OR ALUMINUM, AS CALLED FOR IN THE CONTRACT.

TYPE 5 ALUMINUM POLES SHALL BE CONSTRUCTED OF 6063-T6 ALUMINUM ALLOY. SLEEVING INSIDE THE POLE IS NOT ACCEPTABLE.

THE TYPE 5 ALUMINUM POLES SHALL HAVE A MINIMUM WALL THICKNESS OF 0.188".

TYPE 5 STEEL POLES SHALL HAVE A MINIMUM WALL THICKNESS OF U.S. STANDARD 11 GAGE (.1196").

THE SLIPFITTER END OF THE LUMINAIRE MAST ARM SHALL BE A NOMINAL 2⅜ INCHES IN OUTSIDE DIAMETER. THE STRAIGHT PORTION OF THE SLIPFITTER END OF THE LUMINAIRE ARM SHALL BE A NOMINAL 12 INCHES IN LENGTH.

WHEN TRANSFORMER BASES ARE USED, WIRE CONEECTIONS SHALL BE MADE IN THE TRANSFORMER BASE.

(1) 4" x 6" REINFORCED HANDHOLE & COVER ASSEMBLY WITH 2 (TWO) ¼" X ¾" - 20 TPI HEX HEAD STAINLESS STEEL BOLTS.

(2) GROMMETS, 1" CHASE NIPPLES OR 1" CLOSE CONDUIT NIPPLES WITH BUSHINGS SHALL BE PROVIDED FOR 1⅜" HOLE IN POLE SHAFT FOR WIRING.

(3) CAST ALUMINUM TRANSFORMER BASE, WHEN REQUIRED.

(4) FURNISH AND INSTALL VENTILATED, CAST, METALLIC (ALUMINUM ALLOY) CAPS. FASTEN CAPS WITH ONE (1) ¼" X ¾" - 20 TPI STAINLESS STEEL, HEX HEAD BOLT.

(5) SHIMMING, IF NEEDED, SHALL BE LOCATED BETWEEN THE CONCRETE FOUNDATION AND THE TRANSFORMER BASE.

(6) INTERNAL DUMBBELL-TYPE VIBRATION DAMPER.

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POLE MONTINGS FOR
LIGHTING UNITS, TYPE 5
(30 FEET)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

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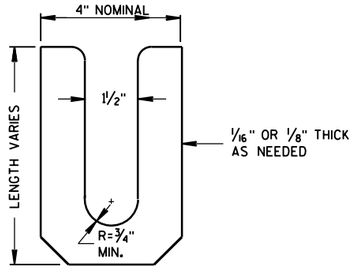
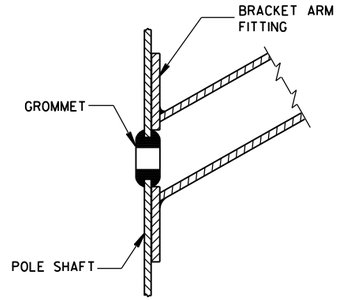
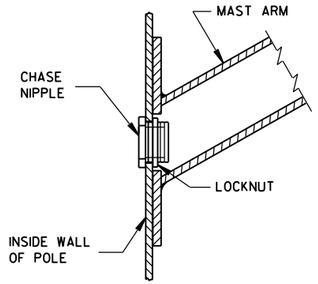


LEVELING SHIM (13)

SHALL BE ALUMINUM



TYPICAL APPLICATION OF GROMMET IN POLE SHAFT



TYPICAL APPLICATION OF CHASE NIPPLE IN POLE SHAFT

GENERAL NOTES

CLAMP BOLT-NUT TIGHTENING TORQUE SHALL BE INDICATED BY INDENT STAMPING (1/2 INCH NUMERALS AND LETTERS) OR WEATHERPROOF PRINTING ON THE INSIDE OF THE CLAMP THAT IS WELDED TO THE ARM MEMBER.

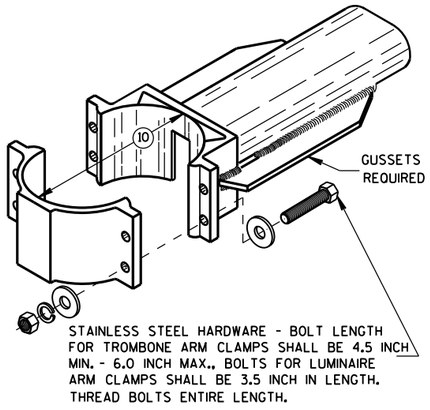
(10) 4.5" I.D. FOR LUMINAIRE MAST ARM CLAMP.
6.625" I.D. FOR TROMBONE MAST ARM CLAMP.

(11) INDIVIDUAL BASE PLATE ANCHOR ROD COVERS. (4 REQUIRED)

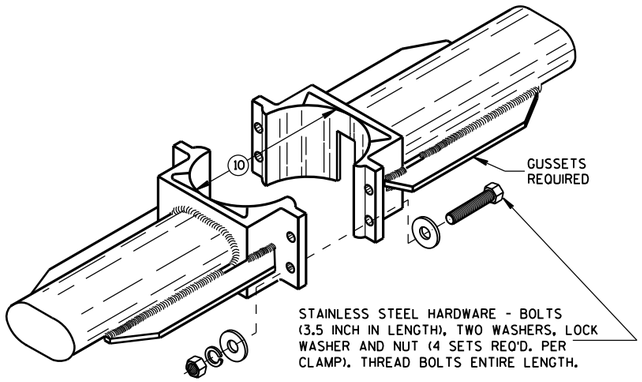
(12) BASE PLATE SLOTTED TO ACCEPT 11" THROUGH 12" BOLT CIRCLE USING 1" DIAMETER ANCHOR RODS.

(13) LEVELING SHIMS, DESIGNED FOR THE PURPOSE, SHALL BE USED WHEN PLUMBING POLES. THE USE OF WASHERS IN LIEU OF PROPER LEVELING SHIMS IS NOT ACCEPTABLE. LEVELING SHIMS SHALL BE USED ONLY BETWEEN THE TOP OF THE CONCRETE BASE AND A METALLIC BASE PLATE.

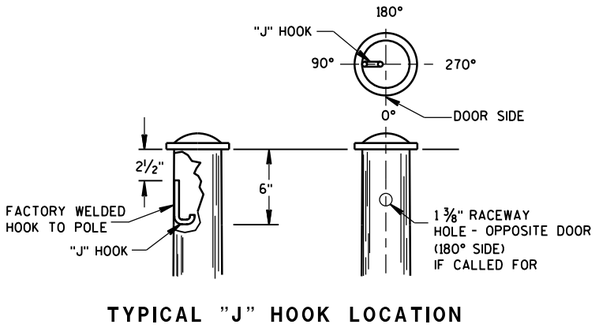
SHIMS SHALL BE LONG ENOUGH AND WIDE ENOUGH TO COMPLETELY COVER THE AREA UNDER THE LENGTH AND WIDTH OF THE BASE MOUNTING FLANGE.



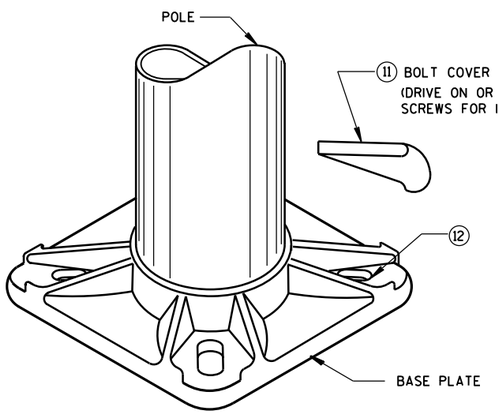
TYPICAL TROMBONE MAST ARM AND SINGLE LUMINAIRE MAST ARM MOUNTING CLAMP



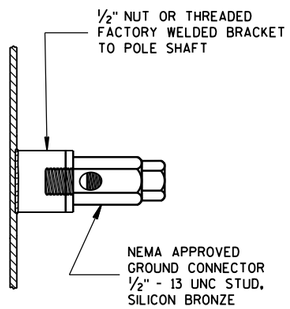
TYPICAL LUMINAIRE MAST ARM (DOUBLE) MOUNTING BRACKETS

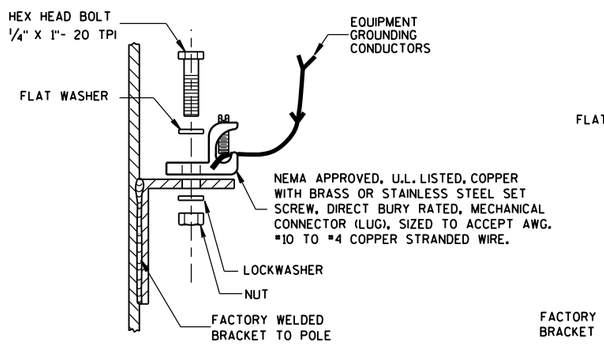


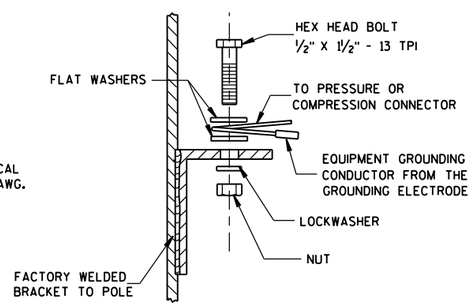
TYPICAL "J" HOOK LOCATION



BASE PLATE







TYPICAL GROUNDING CONNECTIONS

NUT, BOLT AND WASHERS SHALL BE STAINLESS STEEL

HARDWARE DETAILS FOR POLE MOUNTINGS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Feb. 2015 — DATE
/S/ Ahmet Demirbilek — STATE ELECTRICAL
FHWA

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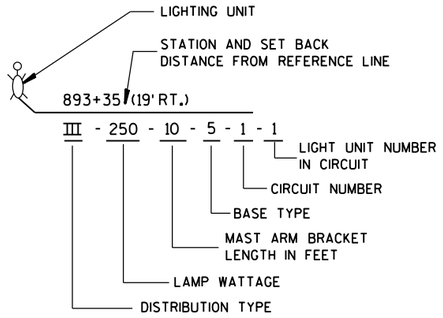
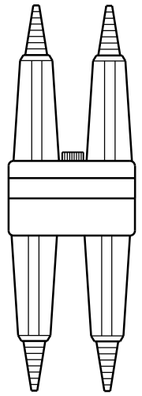
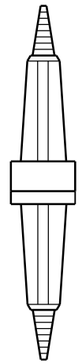
S.D.D. 9 E 1-14g



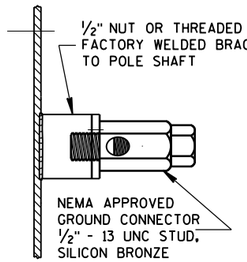
LIGHTING UNIT CODE
(TYPICAL)

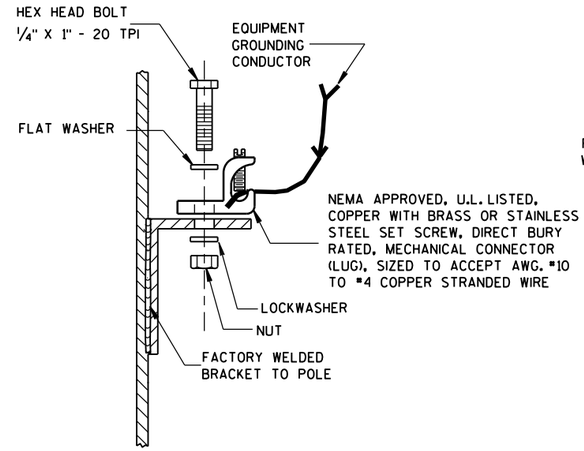


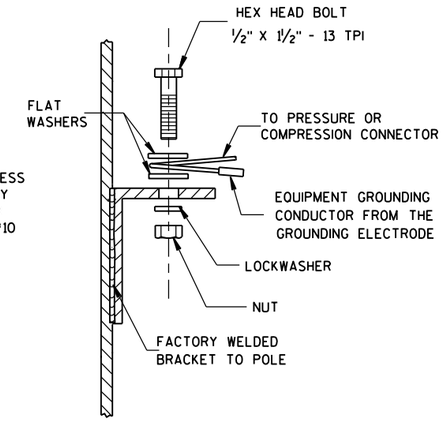
DETAIL "A"
BREAKAWY DOUBLE POLE WITH WATERPROOF INSULATING BOOT



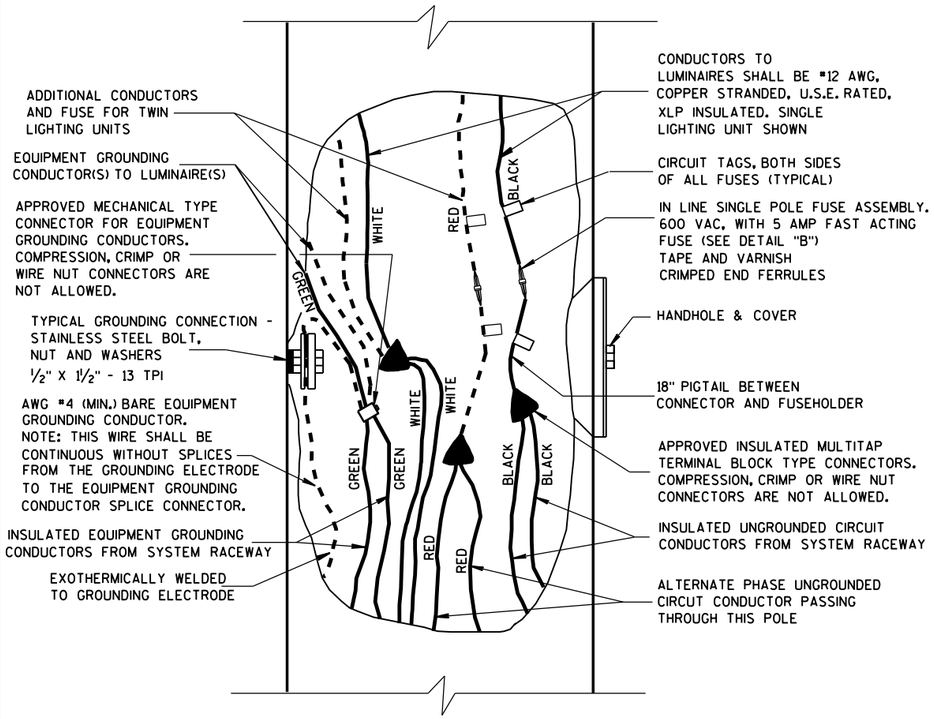
DETAIL "B"
BREAKAWY SINGLE POLE WITH WATERPROOF INSULATING BOOT



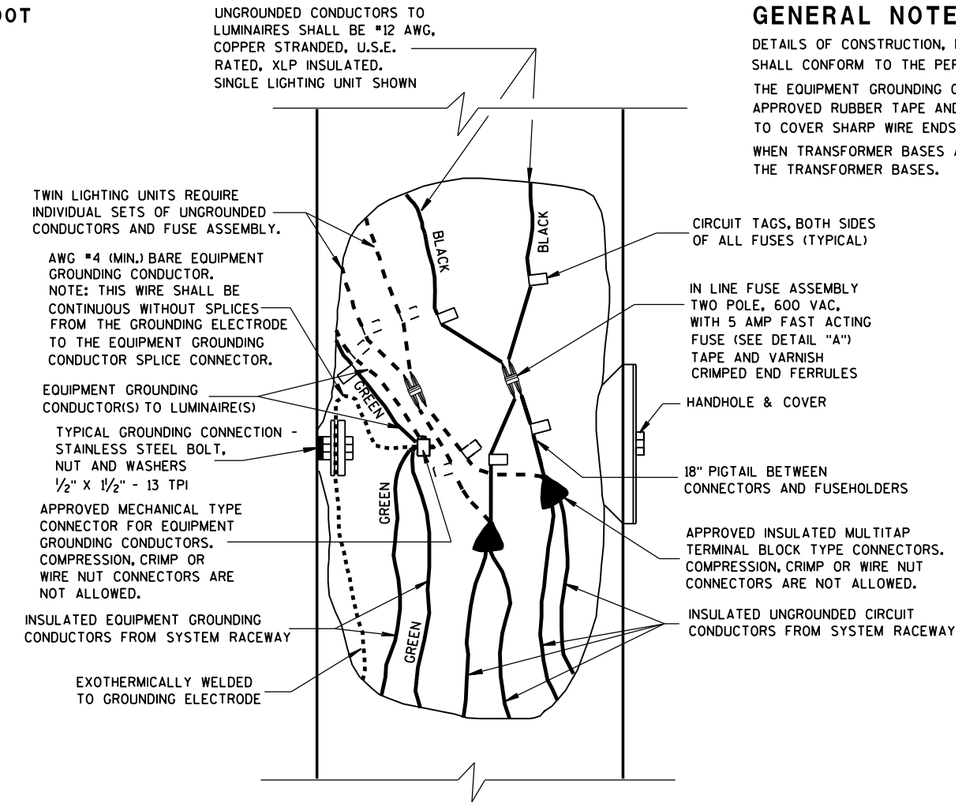




TYPICAL GROUNDING CONNECTIONS
NUT, BOLT, WASHERS AND LOCKWASHERS SHALL BE STAINLESS STEEL



3 WIRE - 120, 240 OR 480 VAC (UNGROUNDED CONDUCTOR) WITH GROUNDED CONDUCTOR AND WITH EQUIPMENT GROUNDING CONDUCTOR



2 WIRE - 240 OR 480 VAC (UNGROUNDED CONDUCTORS) WITH EQUIPMENT GROUNDING CONDUCTOR

GENERAL NOTES

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

THE EQUIPMENT GROUNDING CONNECTOR SHALL BE TAPED WITH 3 WRAPS (MINIMUM) OF APPROVED RUBBER TAPE AND THEN 3 WRAPS (MINIMUM) OF APPROVED VINYL TAPE TO COVER SHARP WIRE ENDS AFTER THE CONNECTION IS COMPLETED.

WHEN TRANSFORMER BASES ARE USED, ALL WIRING CONNECTIONS SHALL OCCUR WITHIN THE TRANSFORMER BASES.

NON-FREEWAY LIGHTING UNIT POLE WIRING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept. 2014 — DATE
/S/ Ahmet Demirbilek — STATE ELECTRICAL
FHWA

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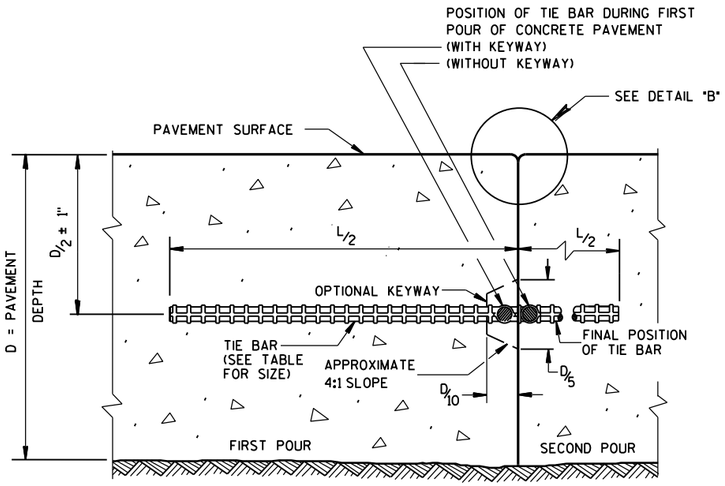
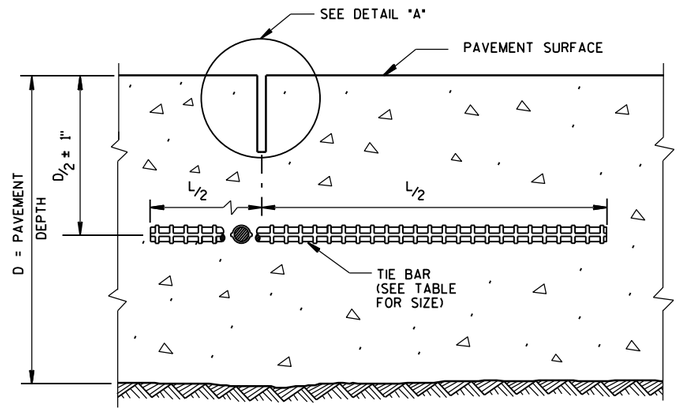
S.D.D. 9 E 3-5



CONSTRUCTION JOINT



SAWED JOINT

GENERAL NOTES

DO NOT SEAL OR FILL LONGITUDINAL JOINTS.

CREATE A LONGITUDINAL JOINT FOR PAVEMENT WIDTHS GREATER THAN 15 FEET.

CORRELATE LONGITUDINAL JOINTS WITH LANE LINES WHEN POSSIBLE.

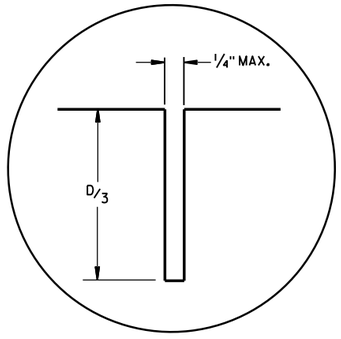
(1) ANCHOR TIE BARS INTO DRILLED HOLES WITH AN EPOXY.

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

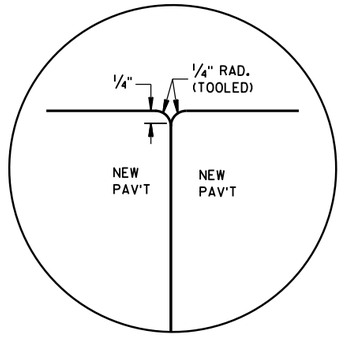
PLAN VIEW

SECTION A-A

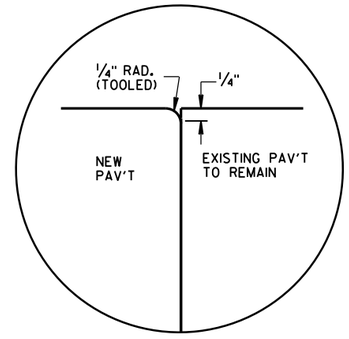
LONGITUDINAL CONSTRUCTION JOINT TIE BARS ANCHORED INTO EXISTING PAVEMENT



DETAIL "A"



DETAIL "B"



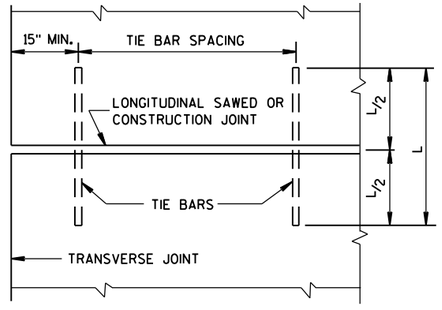
DETAIL "C"

TIE BAR TABLE

PAVEMENT DEPTH (D)	TIE BAR SIZE	TIE BAR LENGTH (L)	MAX. TIE BAR SPACING
< 10 1/2"	NO. 4	30"	36"
≥ 10 1/2"	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
SHOWING LOCATION OF TIE BARS

CONCRETE PAVEMENT LONGITUDINAL JOINTS AND TIES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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

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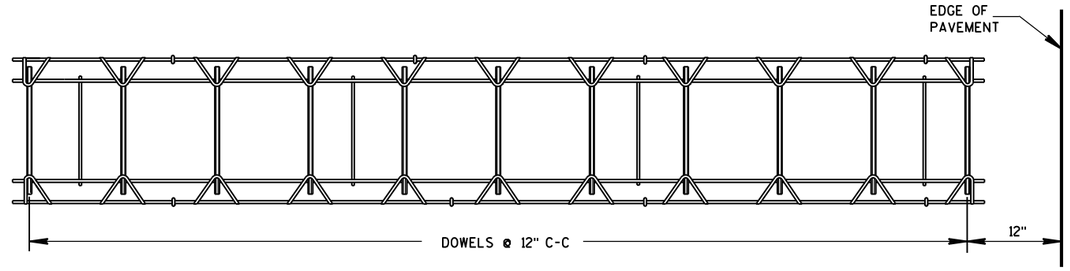
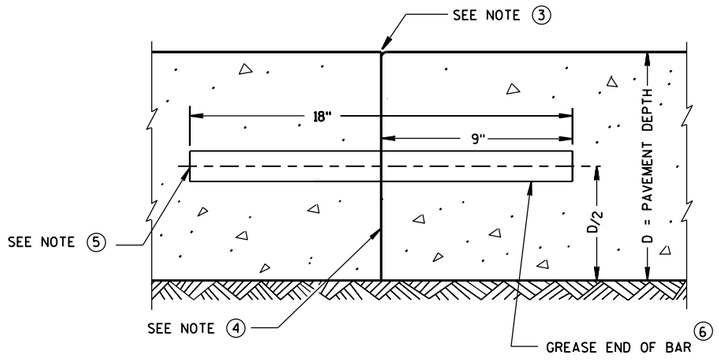
S.D.D. 13 C 1-18



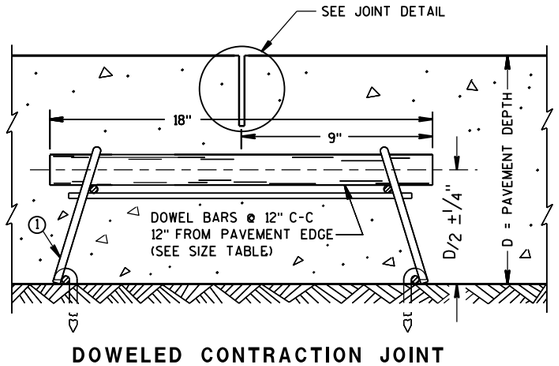
PLAN VIEW

SIDE VIEW

CONTRACTION JOINT DOWEL ASSEMBLY ①



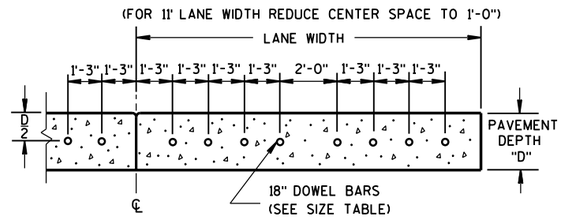
TRANSVERSE CONSTRUCTION JOINT



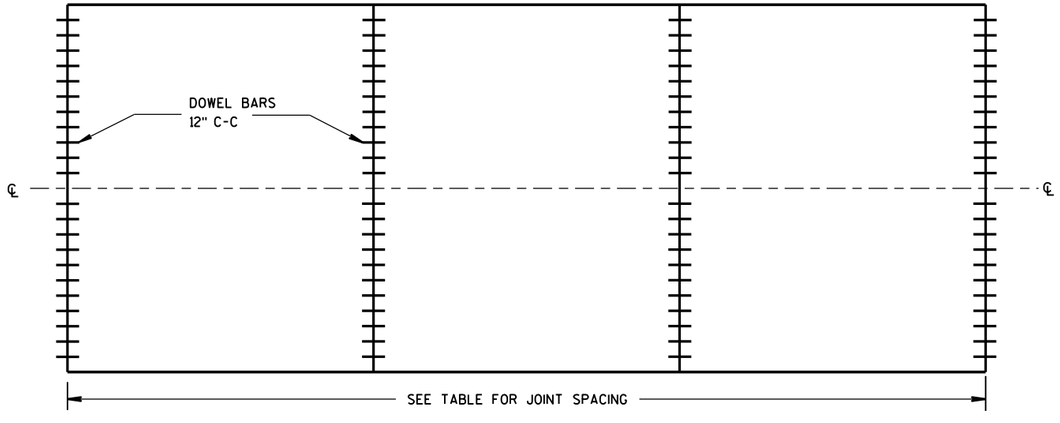
DOWELED CONTRACTION JOINT

PAVEMENT DEPTH, DOWEL BAR SIZE AND JOINT SPACING TABLE

PAVEMENT DEPTH (D)	DOWEL BAR DIAMETER	CONTRACTION JOINT SPACING
5 ½", 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'



DRILLED DOWEL BAR CONSTRUCTION JOINT ⑦



CONTRACTION JOINT LOCATIONS

GENERAL NOTES

CONTRACTION JOINTS

CONSTRUCT TRANSVERSE CONTRACTION JOINTS NORMAL TO THE CENTERLINE. SHOW THE LOCATION OF CONTRACTION JOINTS THROUGH INTERSECTIONS ON THE PLANS OR AS DIRECTED BY THE ENGINEER.

DO NOT SEAL OR FILL CONTRACTION JOINTS.

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

FOR PAVEMENT SLABS OF VARYING WIDTHS, LOCATE THE OUTER MOST DOWEL BAR SO THAT THE CENTER OF THE BAR IS A MINIMUM OF 6 INCHES AND A MAXIMUM OF 18 INCHES FROM THE LONGITUDINAL JOINT AND THE FREE EDGE OF PAVEMENT.

CONSTRUCTION JOINTS

LOCATE CONSTRUCTION JOINTS A MINIMUM OF 6 FEET FROM THE NEAREST CONTRACTION JOINT AND ALIGN PARALLEL TO CONTRACTION JOINTS.

① **OBTAIN THE ENGINEER'S APPROVAL FOR THE USE OF ALTERNATIVE DESIGNS OF THE DOWEL ASSEMBLY. USE MECHANICAL DOWEL BAR INSERTERS OR DOWEL ASSEMBLIES WHEN CONSTRUCTING CONTRACTION JOINTS.**

② SECURE BASKETS WITH ANCHORS TO HOLD DOWEL BARS IN THE CORRECT POSITION AND ALIGNMENT. TYPE, LOCATION, NUMBER AND LENGTH OF ANCHORS ARE DEPENDENT UPON FIELD CONDITIONS.

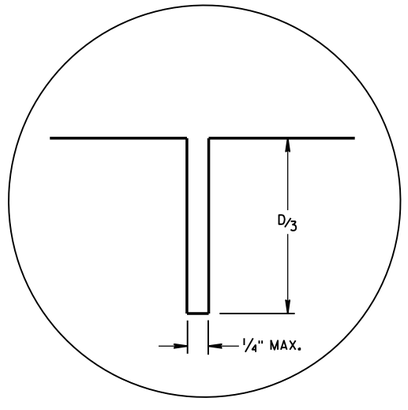
③ FORM OR SAW CONSTRUCTION JOINTS. PROVIDE A ¼-INCH RADIUS AT FORMED JOINTS.

④ PROVIDE A SMOOTH VERTICAL FACE FOR THE ENTIRE DEPTH OF THE PAVEMENT WHEN FORMING CONSTRUCTION JOINTS.

⑤ INSTALL DOWEL BARS AT CONSTRUCTION JOINTS BY FORMING OR DRILLING. INSTALL FORMED DOWEL BARS 12 INCHES C-C AND 12 INCHES FROM PAVEMENT EDGE. REMOVE EXCESS CONCRETE FROM THE FREE END OF THE DOWEL BAR IF DOWEL BARS ARE FORMED THROUGH A HEADER BOARD. INSTALL DRILLED DOWEL BARS ACCORDING TO *DRILLED DOWEL BAR CONSTRUCTION JOINT* DETAIL.

⑥ APPLY A THIN UNIFORM COATING OF SURFACE TREATMENT TO THE FREE END OF DOWEL BARS TO PREVENT BONDING.

⑦ ANCHOR DOWEL BARS INTO DRILLED HOLES WITH AN EPOXY. MAXIMUM DRILLED HOLE SIZE IS ⅛-INCH GREATER THAN DOWEL BAR DIAMETER, 9 INCHES IN LENGTH.



JOINT DETAIL

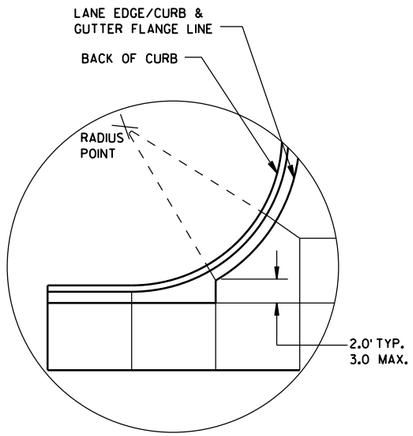
URBAN DOWELED CONCRETE PAVEMENT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

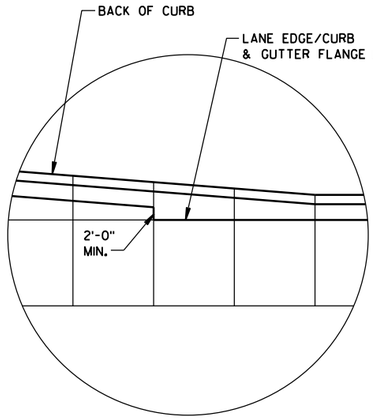
APPROVED
5/3/2013 DATE
/S/ Deb Bischoff
PAVEMENT POLICY & DE ENGINEER
FHWA

6

S.D.D. 13 C 13-8



DETAIL "A"



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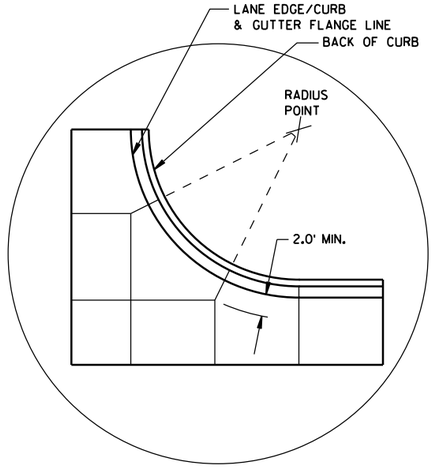

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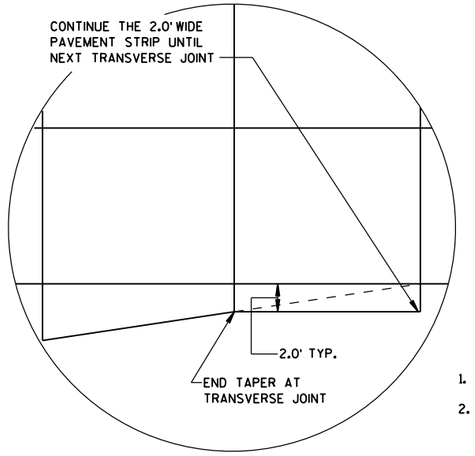


DETAIL "D"

GENERAL NOTES

THE PRIMARY ROADWAY CONTROLS THE TRANSVERSE JOINT PATTERN.

ALIGN NEW JOINTS WITH EXISTING JOINTS OR CRACKS.

CONSTRUCT TRANSVERSE JOINTS PERPENDICULAR TO THE ROADWAY.

ADJUST TRANSVERSE JOINTS TO ALIGN WITH UTILITY FIXTURES (E.G. MANHOLES AND INLETS) IN THE PAVEMENT STRUCTURE WHEN POSSIBLE. WATER VALVES DO NOT REQUIRE JOINT ADJUSTMENT.

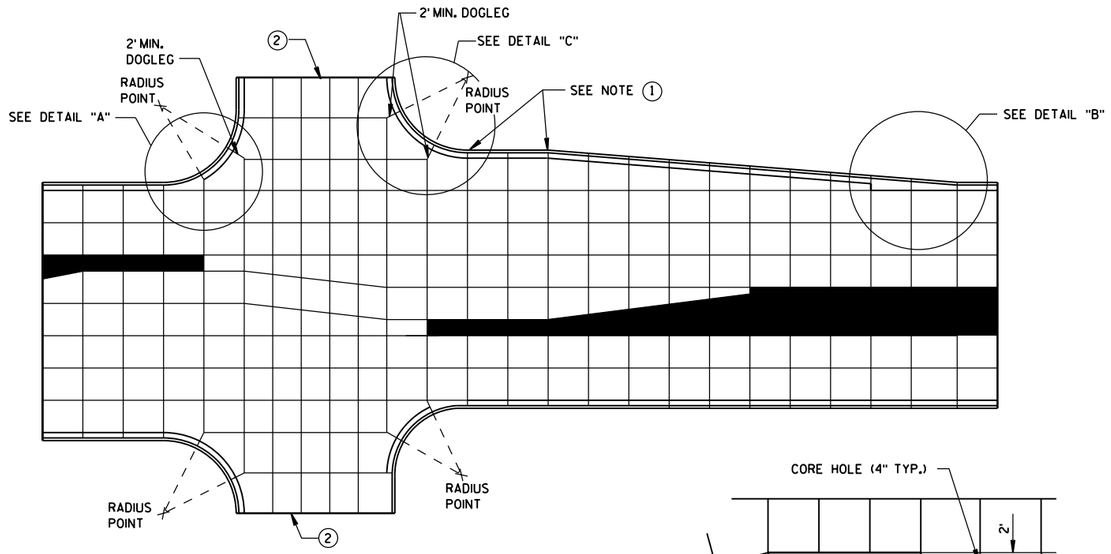
AVOID SLABS LESS THAN 2 FEET WIDE OR GREATER THAN 15 FEET WIDE.

SEE TABLE FOR TRANSVERSE JOINT SPACING. JOINT SPACING SPECIFIED IS MAXIMUM AND ACTUAL SPACING CAN BE ADJUSTED TO ACCOMMODATE INTERSECTIONS.

AVOID ANGLES LESS THAN 60° BY DOGLEGGING JOINTS THROUGH CURVE RADIUS POINTS. USE 90° ANGLES WHEN POSSIBLE.

CORRELATE LONGITUDINAL JOINTS WITH LANE LINES WHEN POSSIBLE.

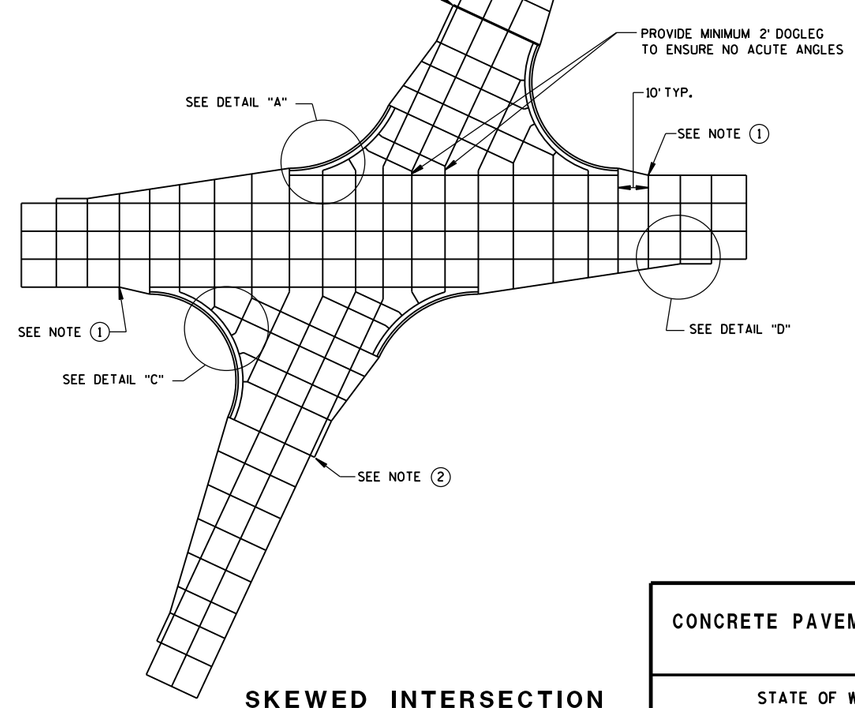
1. PROVIDE TRANSVERSE JOINTS AT ALL PAVEMENT WIDTH CHANGES.
2. CONSTRUCT DOWELED EXPANSION JOINT ON THE SIDE ROAD OF AN INTERSECTION IF THE SIDE ROAD IS CONCRETE PAVEMENT AND GREATER THAN 300 FEET IN LENGTH. ALIGN EXPANSION JOINT WITH EDGE OF RADIUS.
3. THE ENGINEER MAY APPROVE SLIGHT VARIATIONS FROM THESE JOINTING DETAILS.



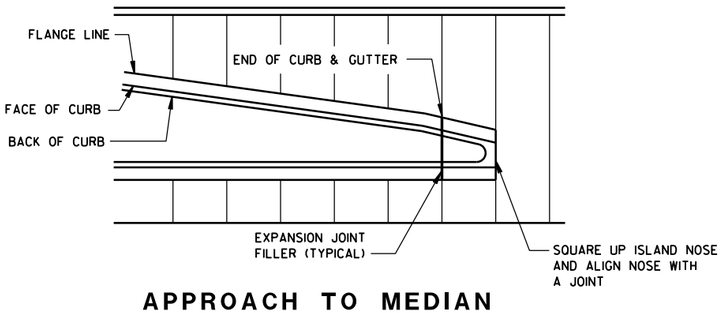
STANDARD INTERSECTION

PAVEMENT DEPTH AND JOINT SPACING TABLE

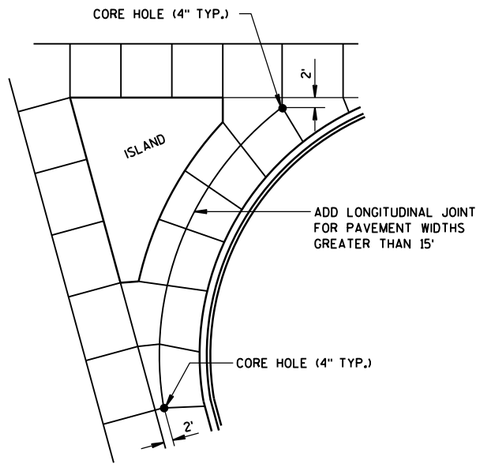
PAVEMENT DEPTH (D)	CONTRACTION JOINT SPACING
6", 6½"	12'
7", 7½"	14'
8" & ABOVE	15'



SKEWED INTERSECTION



APPROACH TO MEDIAN



LARGE RIGHT TURN

CONCRETE PAVEMENT JOINTING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

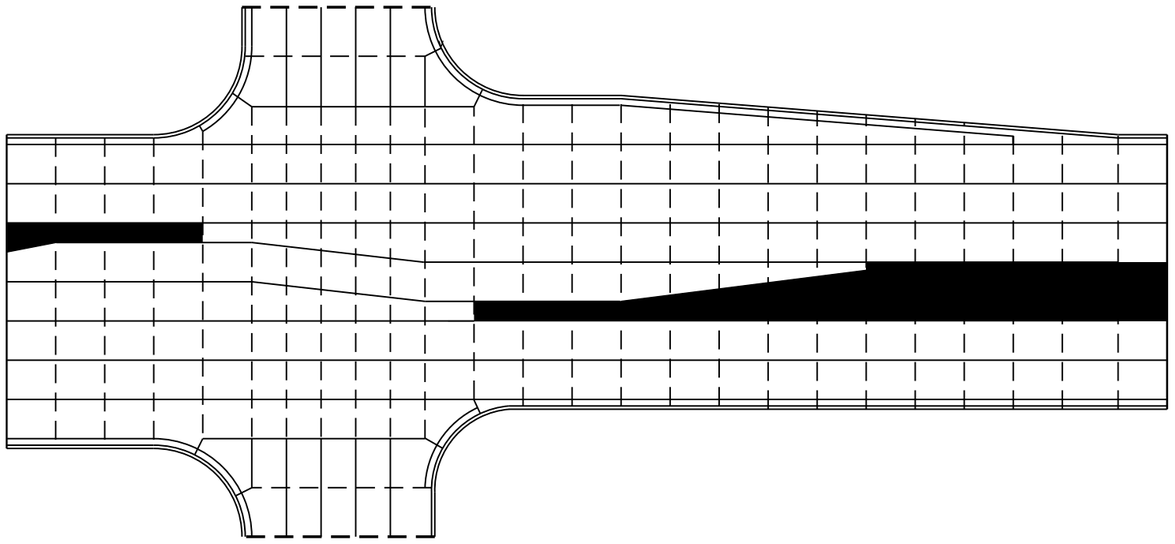
6
S.D.D. 13 C 18-3a

LEGEND

POTENTIAL DOWELED EXPANSION JOINT

DOWELED JOINT

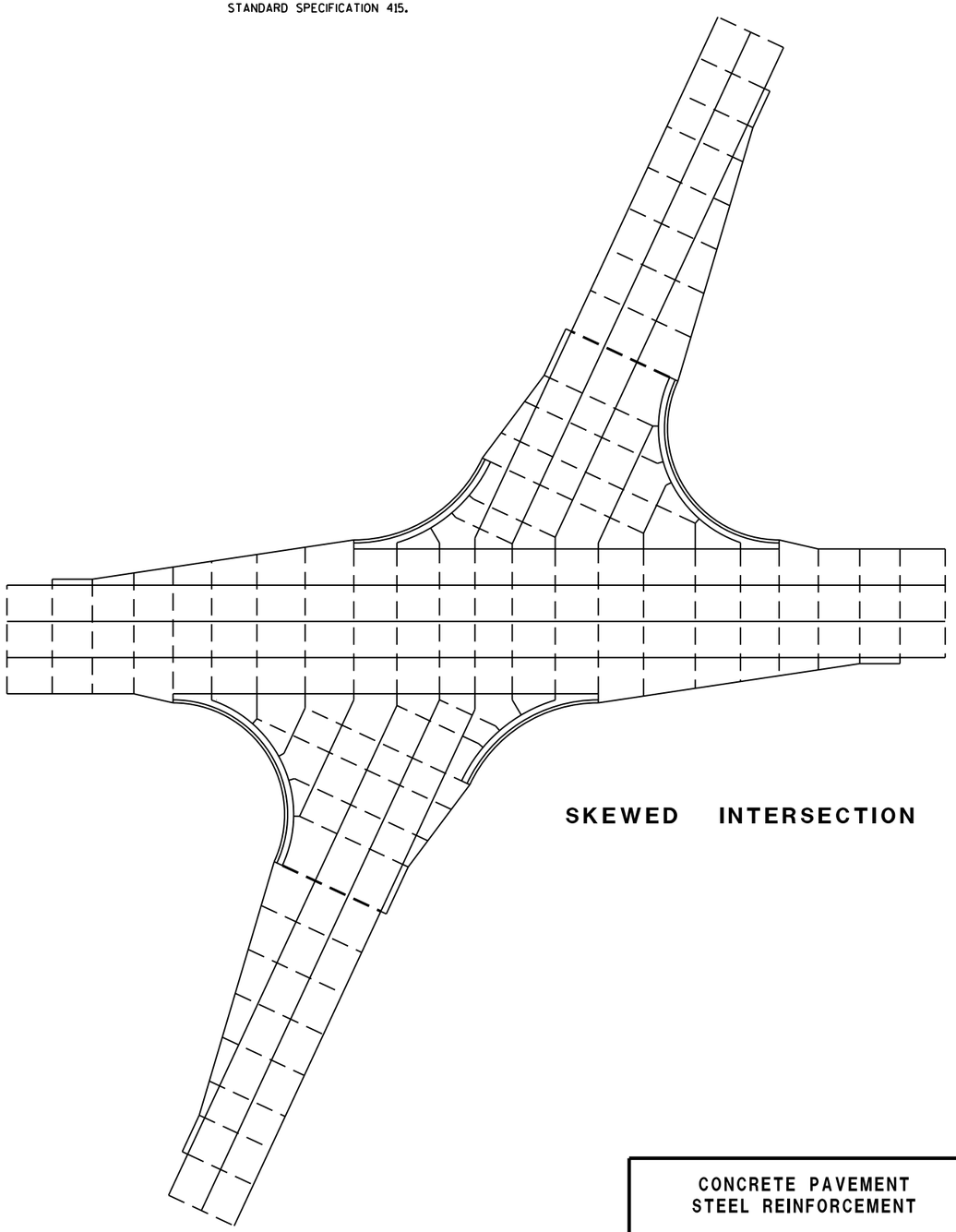
TIED JOINT



STANDARD INTERSECTION

GENERAL NOTES

USE AN EXPANSION JOINT FILLER MEETING THE REQUIREMENTS OF STANDARD SPECIFICATION 415.



SKEWED INTERSECTION

CONCRETE PAVEMENT
STEEL REINFORCEMENT

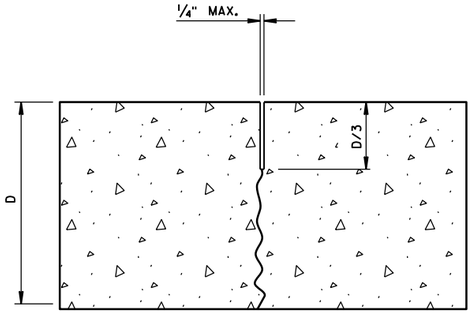
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

6

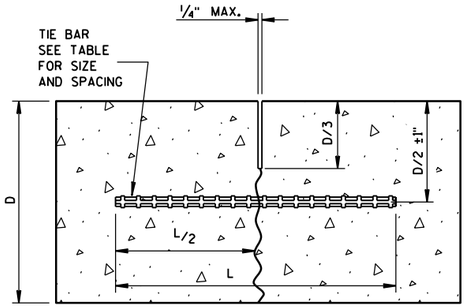
S.D.D. 13 C 18-3b

6

S.D.D. 13 C 18-3b



UNDOWELED-TRANSVERSE



TIED LONGITUDINAL

TIE BAR TABLE

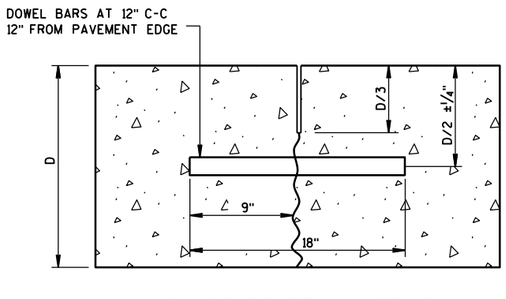
PAVEMENT DEPTH (D)	TIE BAR SIZE	TIE BAR LENGTH (L)	MAX. TIE BAR SPACING
< 10 1/2"	NO. 4	30"	36"
≥ 10 1/2"	NO. 5	36"	36"
	NO. 4*	30"	24"**

* 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.

GENERAL NOTES

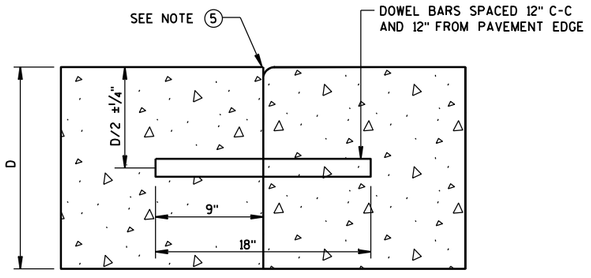
1. USE DOWELED EXPANSION JOINTS ON SIDE ROADS AT INTERSECTIONS (TO ISOLATE THE SIDE ROAD FROM THE THROUGH STREET) IF THE SIDE ROAD IS CONCRETE PAVEMENT AND GREATER THAN 300 FEET IN LENGTH.
2. SPACE CONTRACTION JOINTS IN ACCORDANCE WITH 13C4, 13C11 OR 13C13.
3. LOCATE CONSTRUCTION JOINTS A MINIMUM OF 6 FEET FROM THE NEAREST CONTRACTION JOINT AND ALIGN PARALLEL TO CONTRACTION JOINTS.
4. CONSTRUCTION JOINTS CAN BE FORMED OR SAWED.
5. IF JOINT IS FORMED, PROVIDE A 1/4-INCH RADIUS.
6. ANCHOR TIE BARS INTO DRILLED HOLES WITH AN EPOXY.



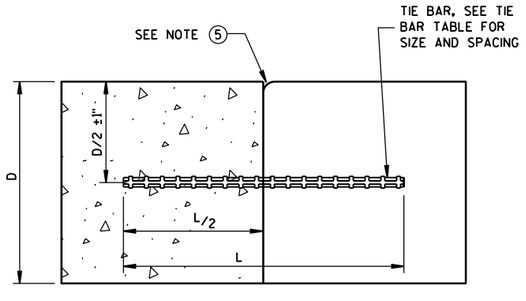
DOWELED-TRANSVERSE

CONTRACTION JOINTS

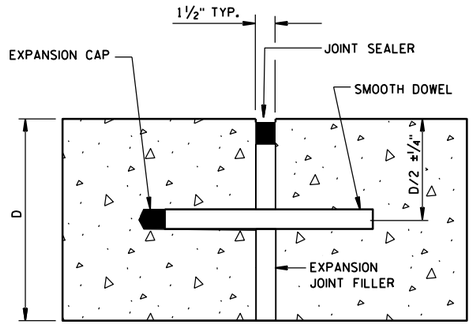
SEE NOTE (2)



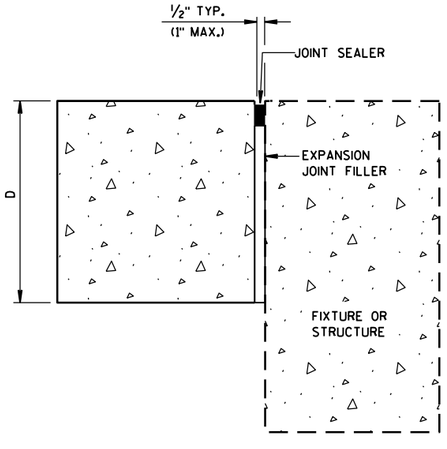
DOWELED TRANSVERSE (3)



TIED LONGITUDINAL

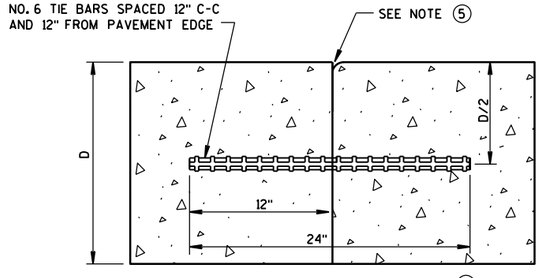


DOWELED-TRANSVERSE
SEE NOTE (1)

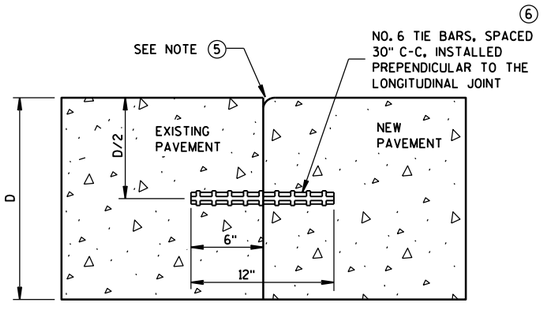


UNTIED-LONGITUDINAL

EXPANSION JOINTS



TIED TRANSVERSE (3)
(FOR USE ON NON-DOWELED PAVEMENTS ONLY)



TIED LONGITUDINAL TO EXISTING

CONSTRUCTION JOINTS

SEE NOTE (4)

CONCRETE PAVEMENT
JOINT TYPES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

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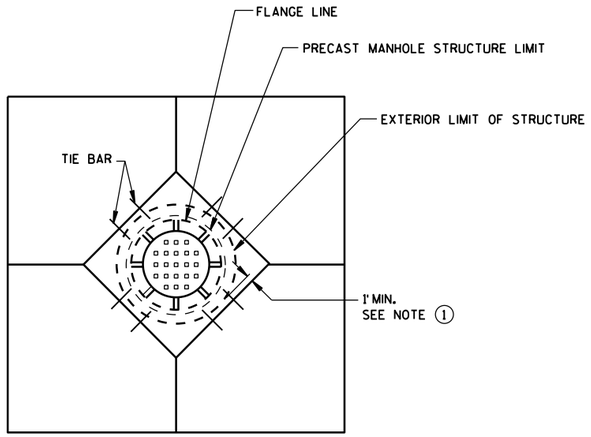
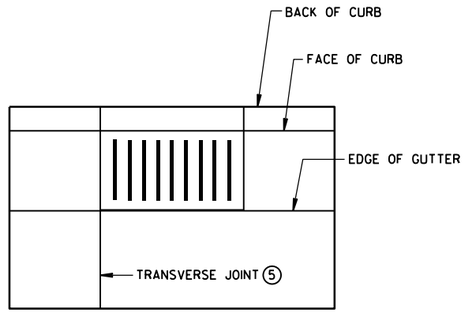
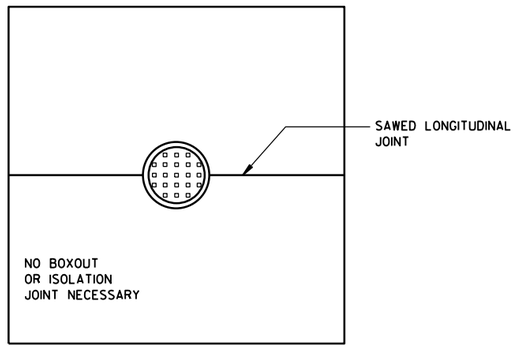
S.D.D. 13 C 18-3c



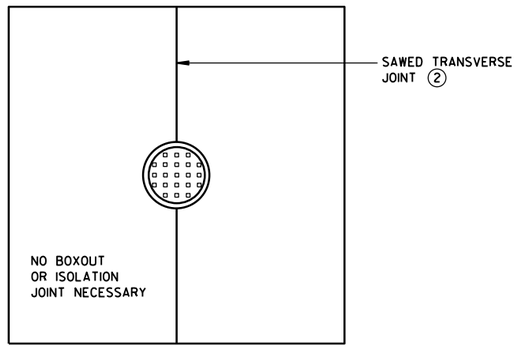
DIAGONAL MANHOLE BOXOUT FOR CONSTRUCTION JOINTS



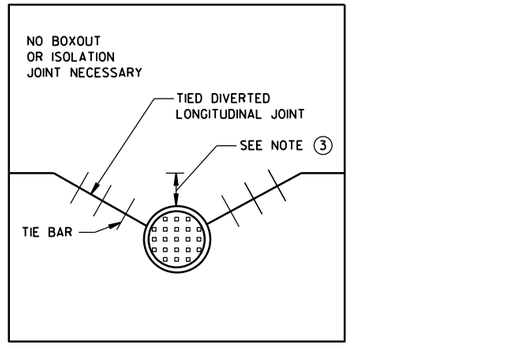
INLET WITH TRANSVERSE JOINT



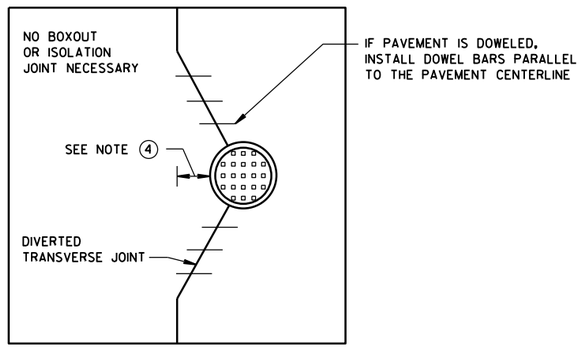
MANHOLE WITH LONGITUDINAL JOINT



MANHOLE WITH TRANSVERSE JOINT



MANHOLE WITH DIVERTED LONGITUDINAL CONTRACTION JOINT



MANHOLE WITH DIVERTED TRANSVERSE CONTRACTION JOINT

GENERAL NOTES

(1) USE BOXOUTS WHEN UTILITY STRUCTURE IS IN THE PATH OF CONSTRUCTION JOINTS. PROVIDE A 1-FOOT MINIMUM CLEARANCE BETWEEN THE EXTERIOR LIMIT OF THE STRUCTURE TO THE DIAMOND BOXOUT.

(2) ADJUST TRANSVERSE JOINT TO INTERSECT MANHOLE IF POSSIBLE.

(3) IF DISTANCE BETWEEN THE LONGITUDINAL JOINT AND THE EDGE OF MANHOLE IS 2 FEET OR LESS, DIVERT THE LONGITUDIAL JOINT AT A 2:1 TAPER RATE TO THE CENTER OF THE MANHOLE. IF THE DISTANCE IS GREATER THAN 2 FEET, DO NOT DIVERT THE JOINT AND SAW AS NORMAL. PLACE REBAR REINFORCEMENT AROUND THE MANHOLE.

(4) IF DISTANCE FROM THE EDGE OF THE MANHOLE TO THE NEAREST TRANSVERSE JOINT IS 4 FEET OR LESS, REDIRECT JOINT TO INTERSECT THE CENTER OF THE MANHOLE. IF DISTANCE IS GREATER THAN 4 FEET, DO NOT DIVERT THE JOINT AND SAW AS NORMAL. PLACE REBAR REINFORCEMENT AROUND THE MANHOLE.

(5) ALIGN TRANSVERSE JOINT WITH ONE EDGE OF INLET WHEN PRACTICAL.

CONCRETE PAVEMENT JOINTING AT UTILITY FIXTURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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

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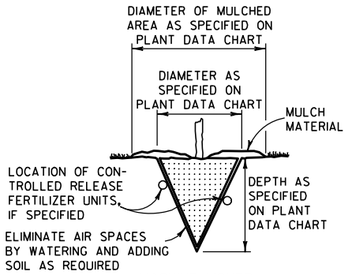
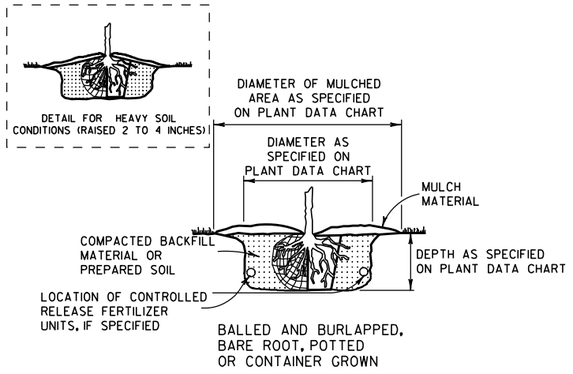
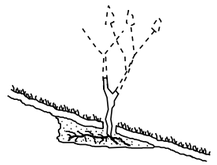


MACHINE MOVED

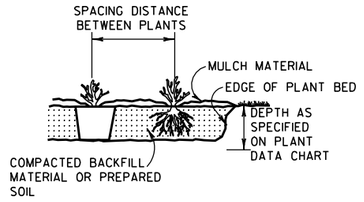


BALLED AND BURLAPPED, BARE ROOT, POTTED OR CONTAINER GROWN



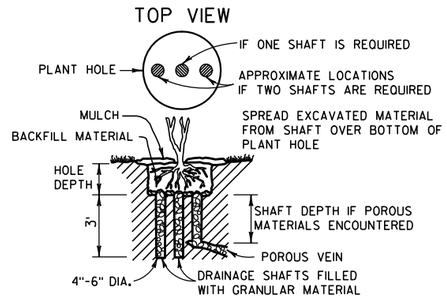
ACCOMMODATE ROOTS (SMOOTH AND STAGHORN SUMAC)

NOTE:
1) ENGINEER SHALL REQUIRE 3 SLITS IN POT TO SPEED DETERIORATION
2) METAL, PLASTIC OR OTHER NONDEGRADABLE POTS SHALL BE REMOVED PRIOR TO PLANTING



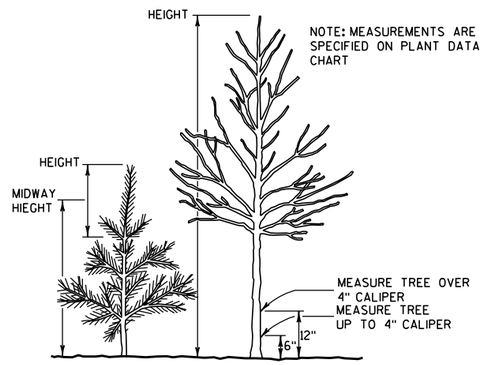
PREPARED BED (BARE ROOT AND POTTED)

PLANTING



NOTE:
DRAINAGE SHAFT AS SPECIFIED ON PLANT DATA CHART

DRAINING



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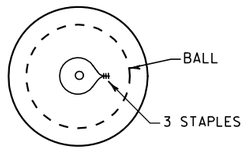
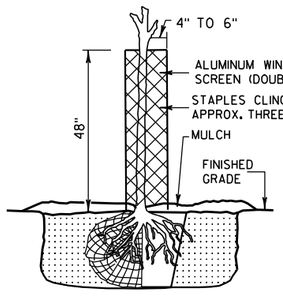
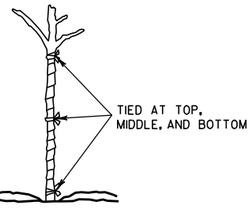


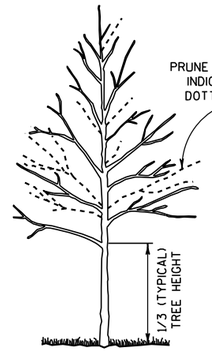
TOP VIEW



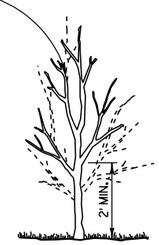
RODENT PROTECTION



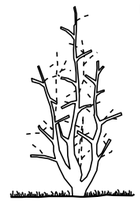
WRAPPING



TALL DECIDUOUS TREES (ASH, MAPLE, LINDEN, OAK)



SINGLE STEMMED LOW DECIDUOUS TREES (CRABS AND OTHER SINGLE STEM TYPE)

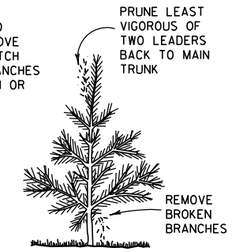


MULTI-STEMMED LOW DECIDUOUS TREES OR LARGE SHRUBS (HAWTHORN, SERVICEBERRY)

NOTE: WHEN PRUNING, PRESERVE CHARACTER AND SHAPE OF TREE. AVOID LEAVING STUBS - REMOVE BRANCH OR TWIG BACK TO THE NEAREST CROTCH
1) PRUNE TO REMOVE DEAD AND BROKEN BRANCHES
2) PRUNE TO REMOVE BRANCHES THAT TOUCH OR ARE TOO CLOSE TO OTHER BRANCHES

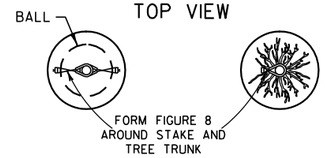
SHRUBS (GRAY DOGWOOD ARROWWOOD VIBURNUM)

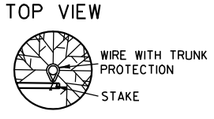
SUMAC

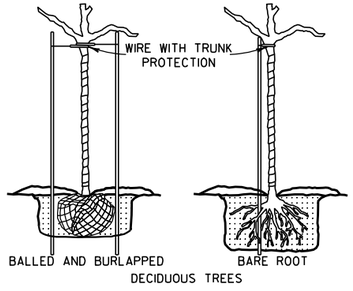


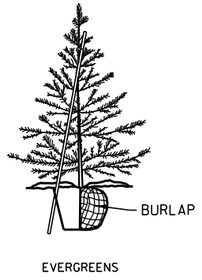
TREE TYPE EVERGREENS (PINE, SPRUCE, FIR) EVERGREENS USUALLY ARE NOT PRUNED

PRUNING



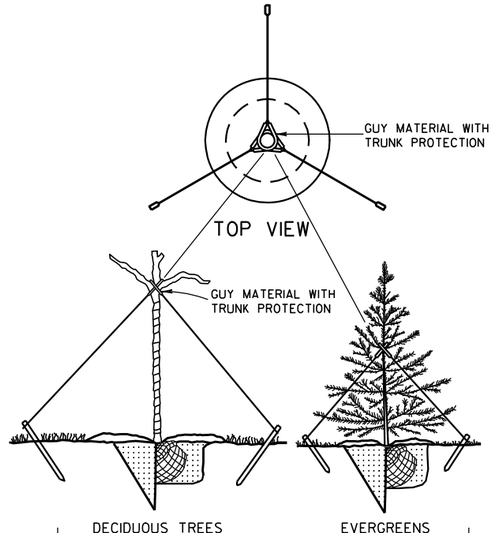




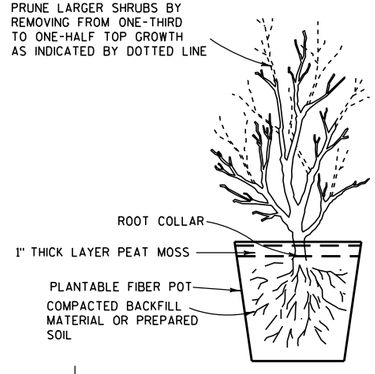


NOTE: BRACING STAKE
1) SHALL BE DRIVEN INTO THE GROUND AS CLOSE TO THE TREE AS POSSIBLE WITHOUT DAMAGING THE BRANCHES.
2) MAY BE DRIVEN AT SUCH AN ANGLE THAT IT DOES NOT PENETRATE THE BALL OR POT.
3) SHALL NOT PROTRUDE ABOVE THE TOP OF THE TREE; AND
4) SHALL HAVE A HOLE NEAR THE TOP TO HOLD THE WIRE IN PLACE.

BRACING



GUYING



POTTING

NOTES

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

BRACING, WRAPPING, GUYING, RODENT PROTECTION, FERTILIZER AND MULCH SHALL BE USED ONLY WHEN SPECIFIED ON THE PLANT DATA CHART (PART OF PLAN) OR SPECIAL PROVISIONS.

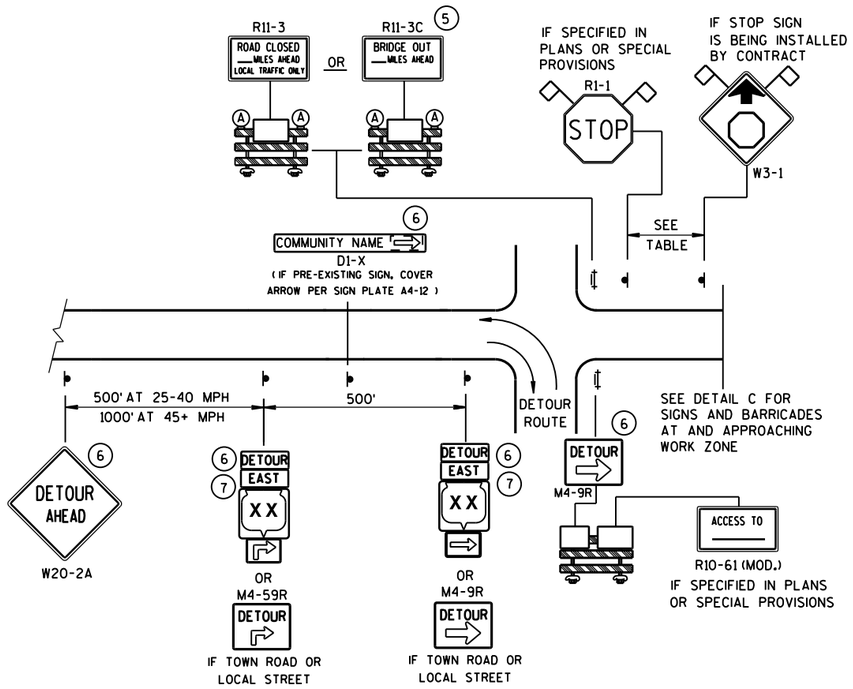
TREE PLANTING DETAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
4/11/94
DATE
/S/ Rory L. Rhinesmith
CHIEF METHODS DEVELOPMENT ENGINEER
FHWA

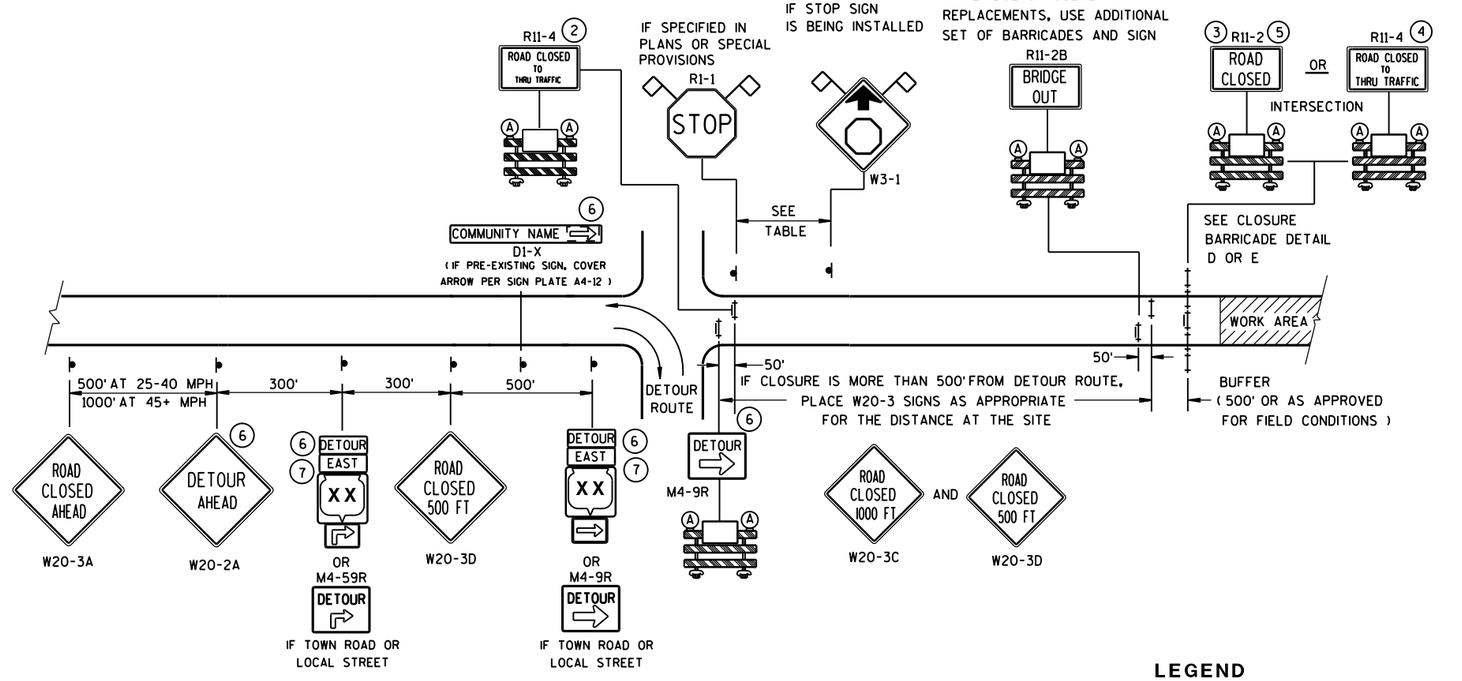
S.D.D. 14 A 2-1

S.D.D. 14 A 2-1



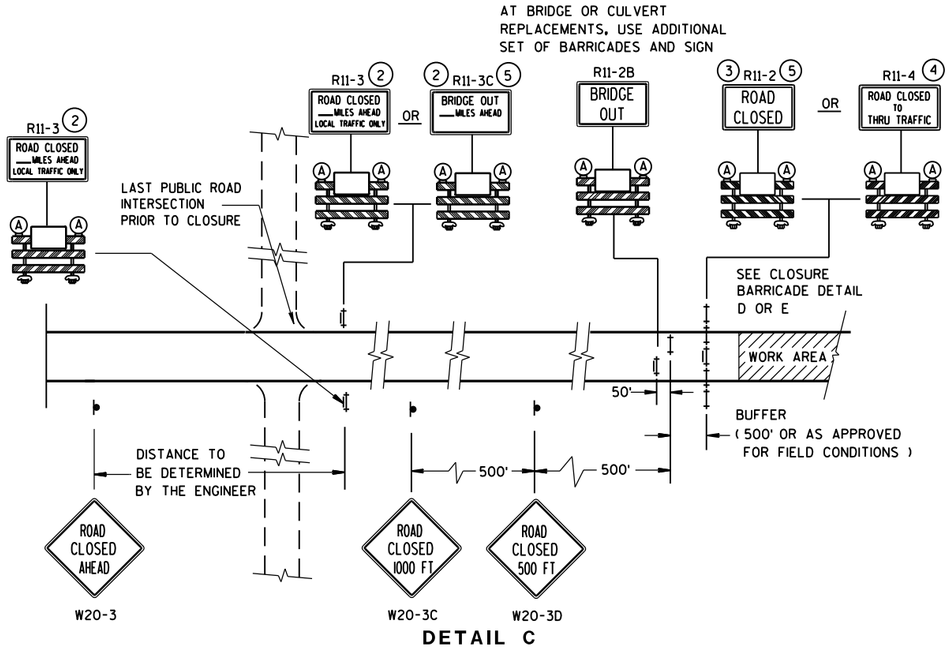
DETAIL A
MAINLINE CLOSURE WITH POSTED DETOUR

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

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)

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

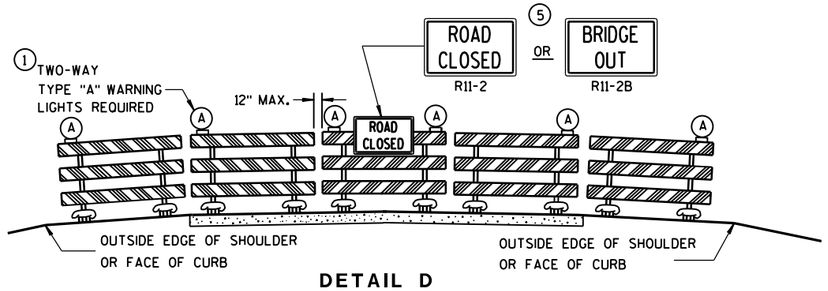
BARRICADES AND SIGNS FOR MAINLINE CLOSURES

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

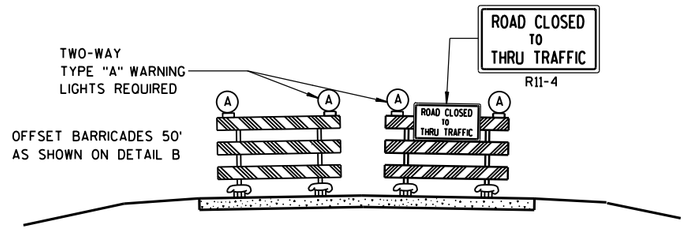
S.D.D. 15 C 2-6a



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

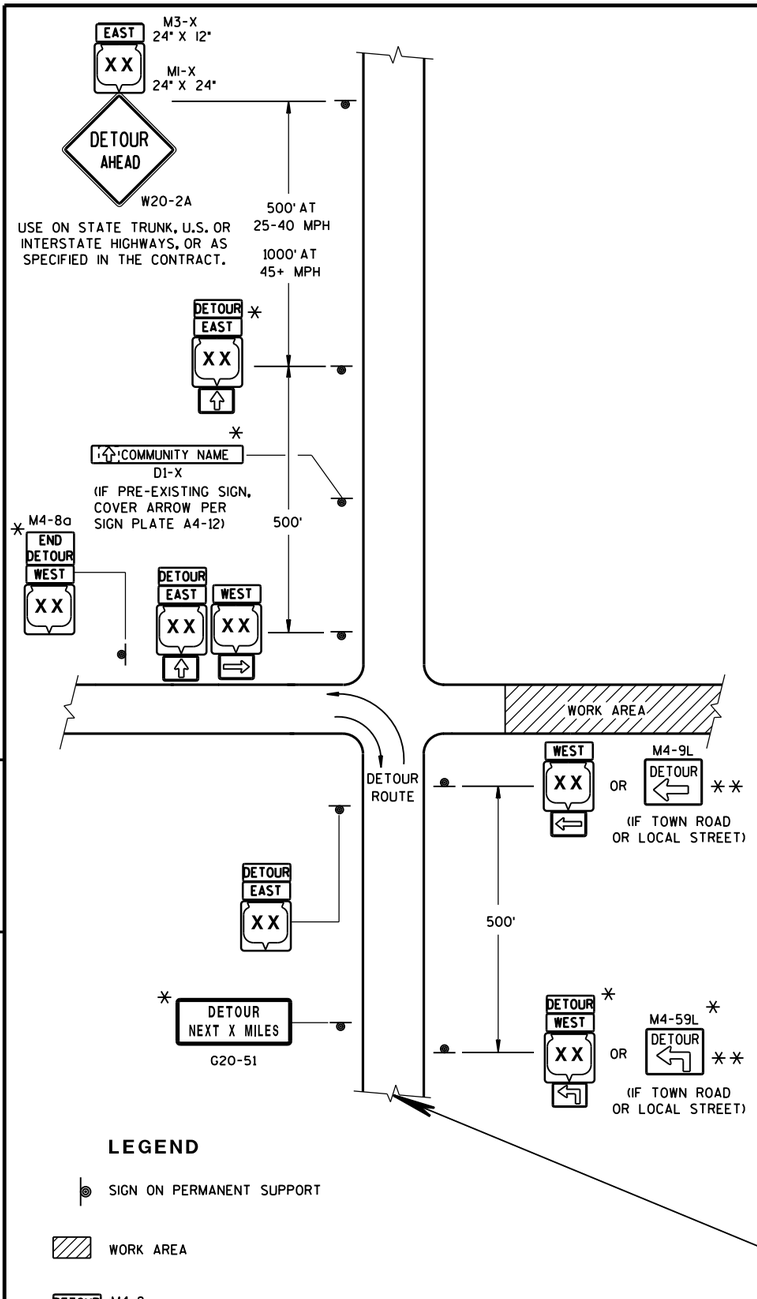
/S/ Peter Amakobe Atepe
STATEWIDE WORK ZO... SAFETY ENGI... — FHWA

6

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

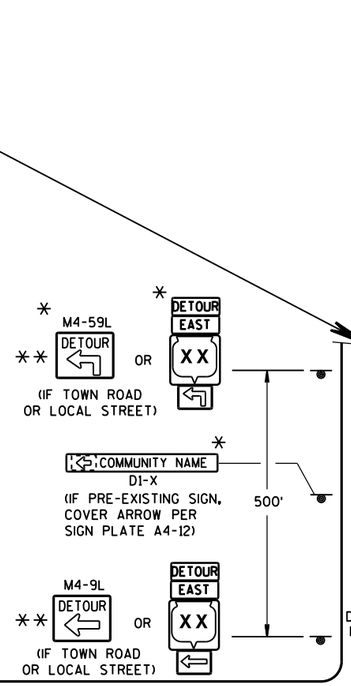
6

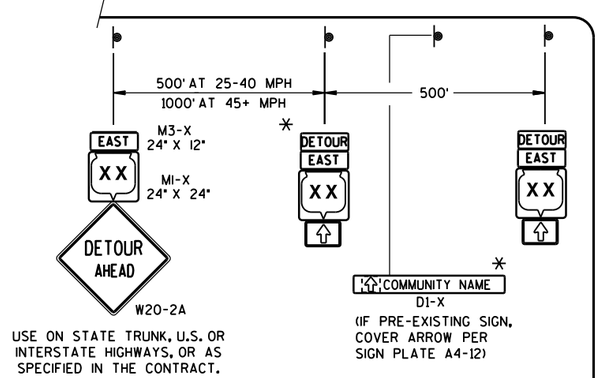
S.D.D. 15 C 2-6b



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

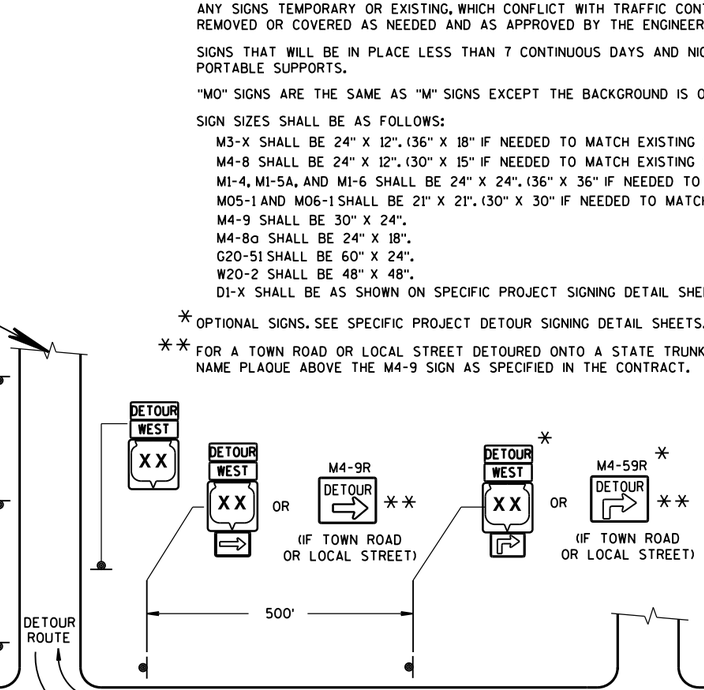
MATCH POINT

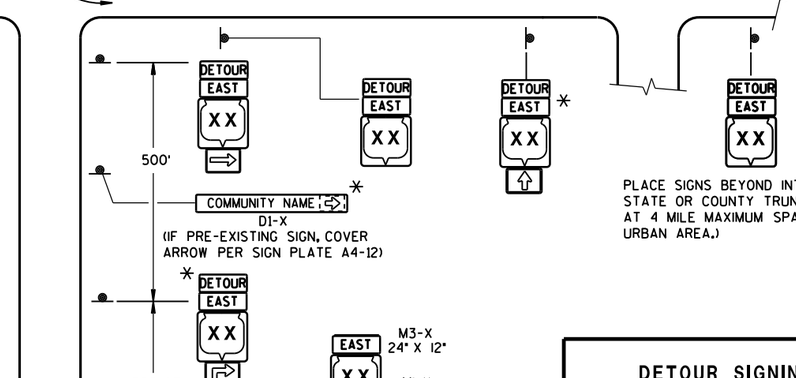




DETAIL F

DETOUR SIGNING





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.

DETOUR SIGNING FOR MAINLINE CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

Sept. 2015 — DATE

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

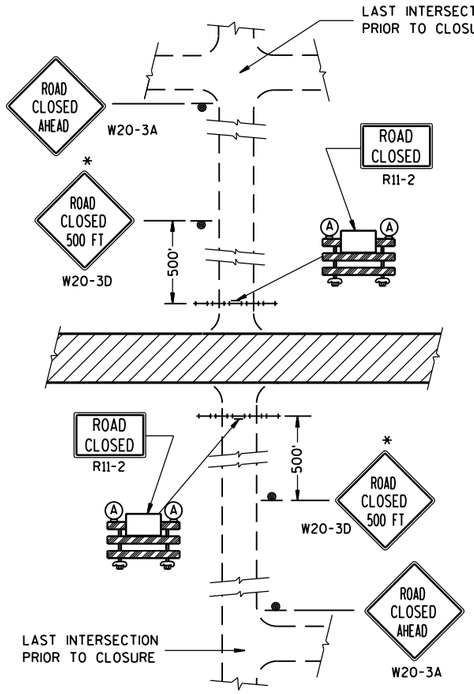
FHWA

6

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

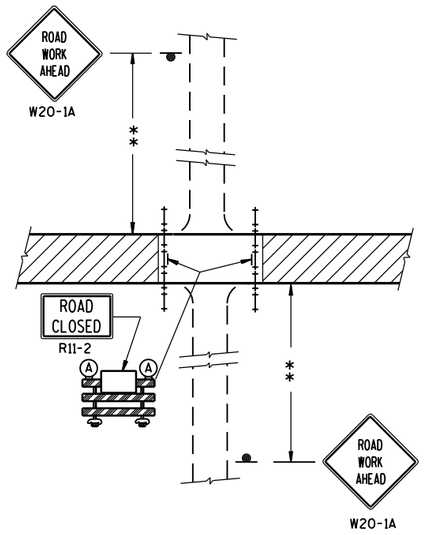
6

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



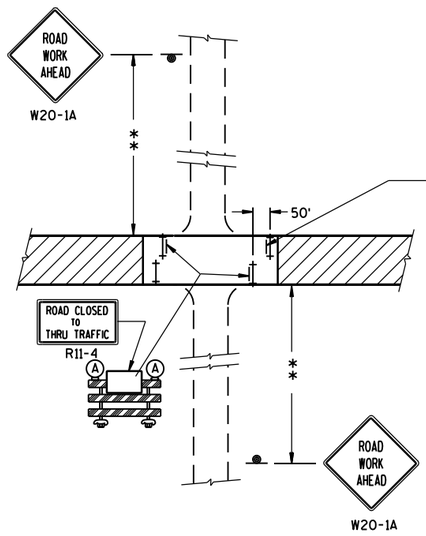
DETAIL 1

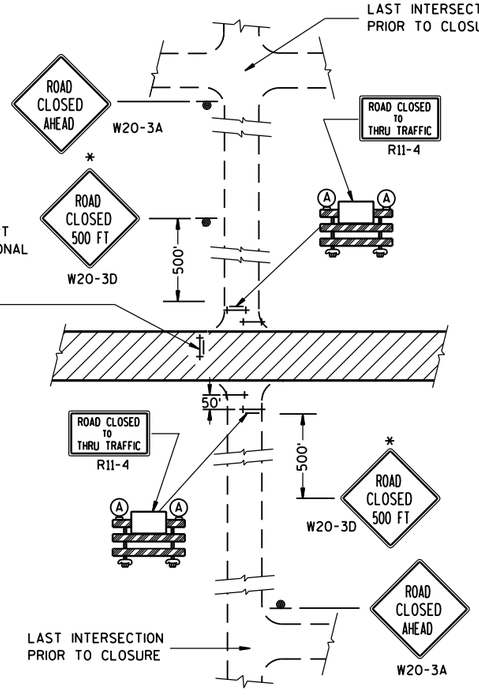
(NO ACCESS TO PROJECT)



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[illegible]FIC SAFETY ENGI[illegible]
FHWA

6

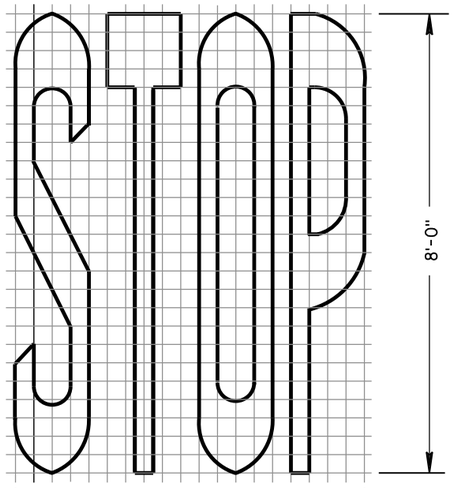
S.D.D. 15 C 3-3

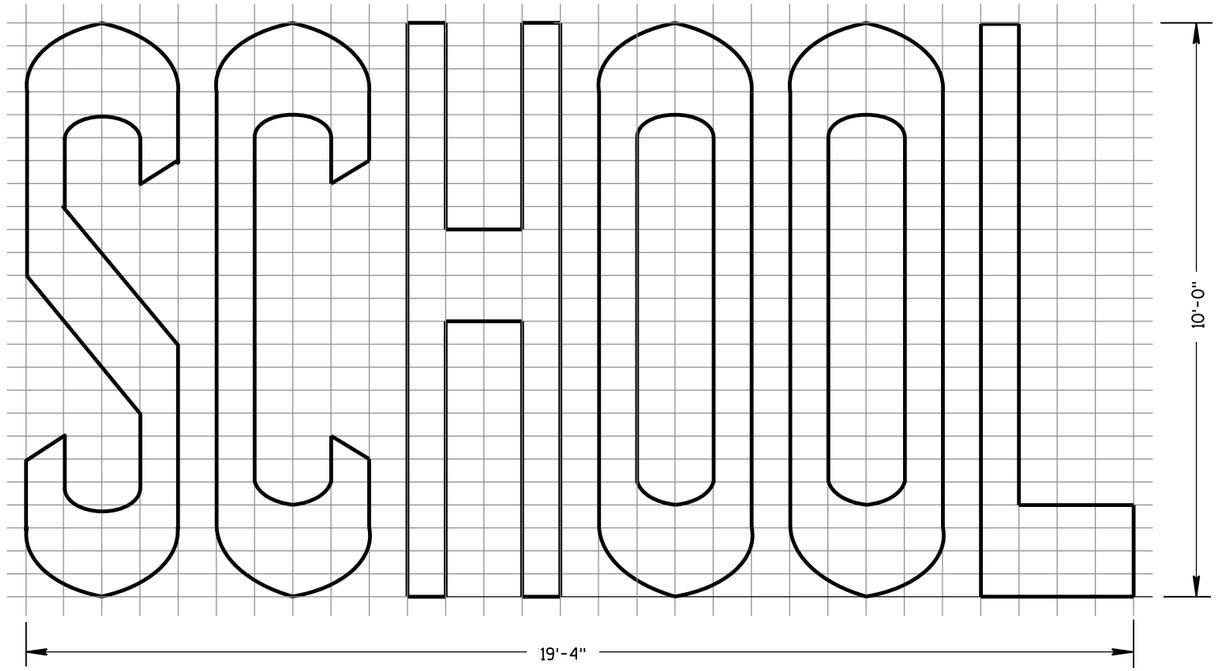
6

S.D.D. 15 C 3-3

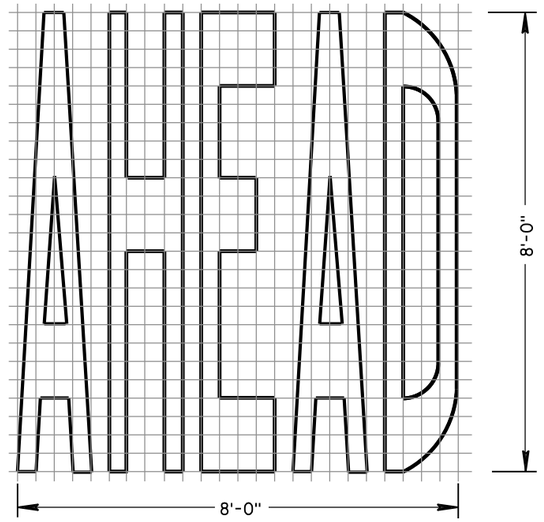
GENERAL NOTES

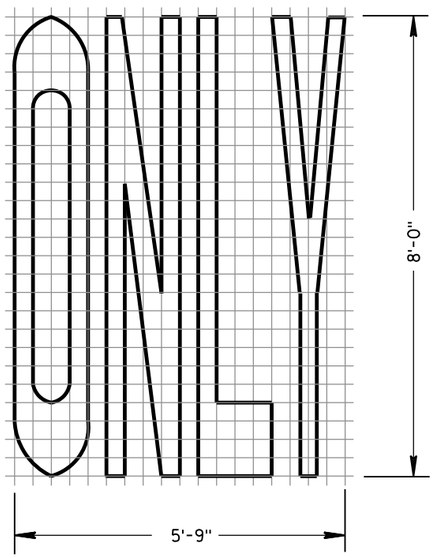
DETAILS OF INSTALLATION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

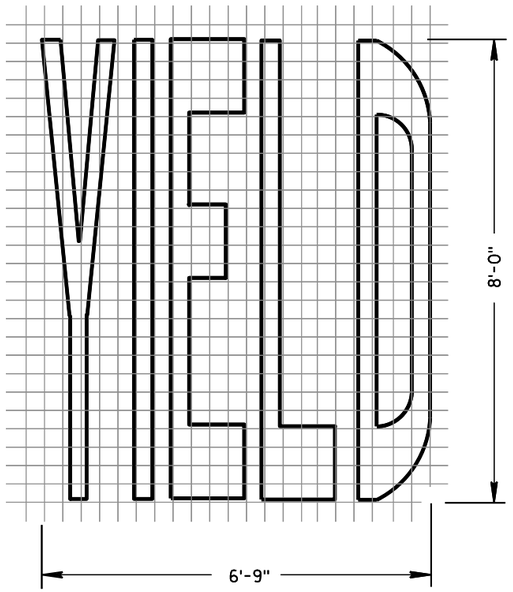


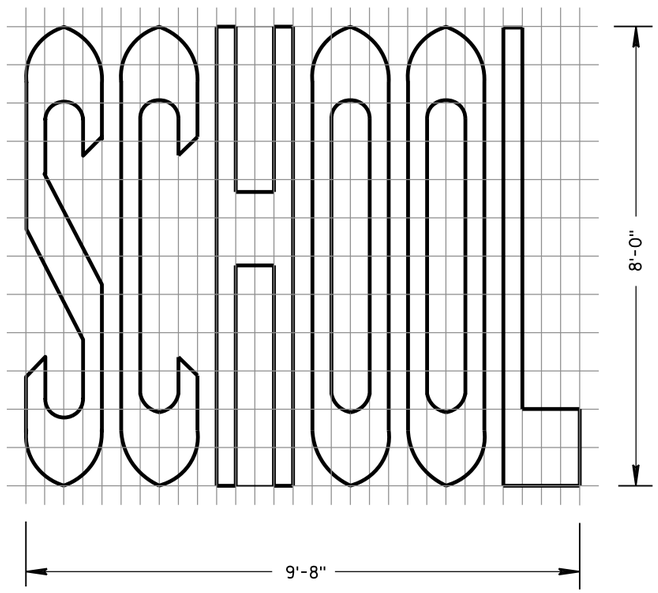


TWO-LANE









SINGLE-LANE

PAVEMENT MARKING WORDS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

4-18-16	/S/ Matthew R. Rauch	
DATE	STATE SIGNING AND MARK	EER

FHWA

6

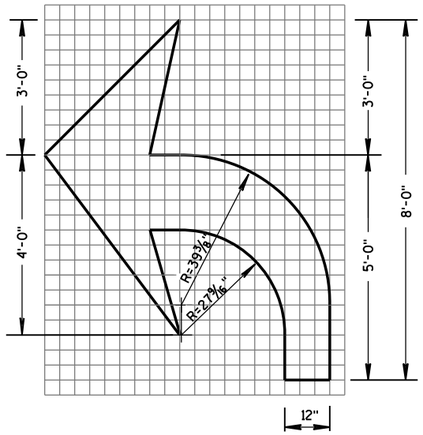
S.D.D. 15 C 7-13b

6

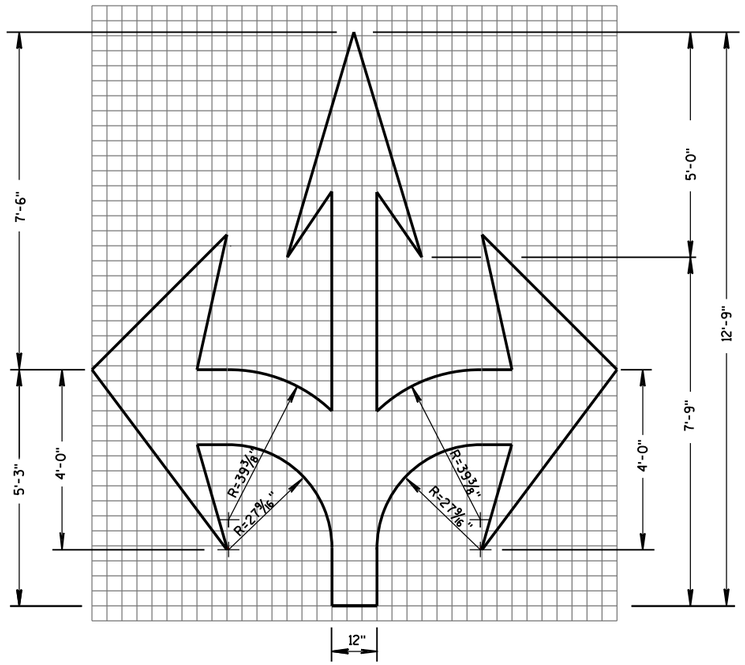
S.D.D. 15 C 7-13b

GENERAL NOTES

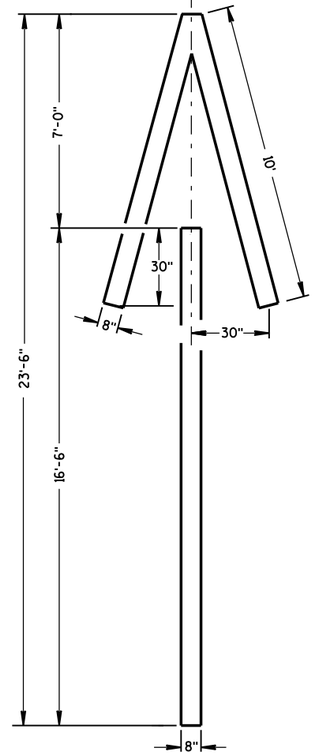
DETAILS OF INSTALLATION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.



TYPE 2



TYPE 6



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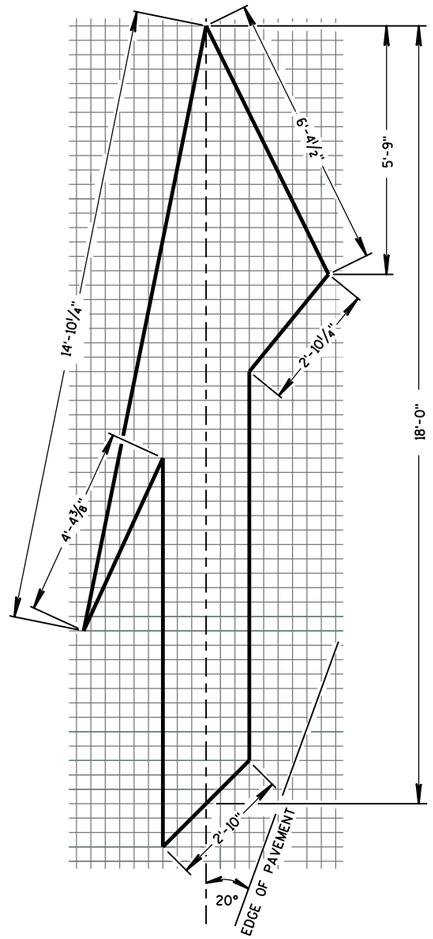
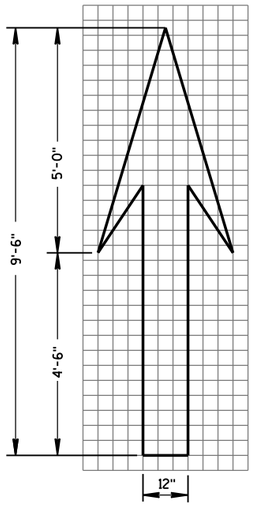
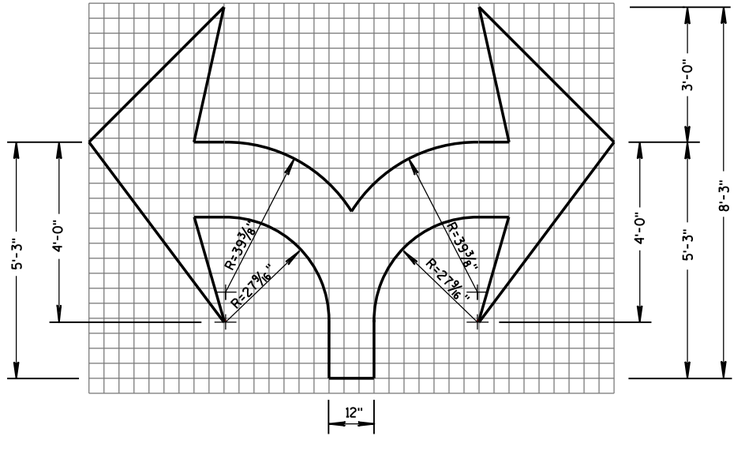


TYPE 5 LANE DROP ARROW



TYPE 1



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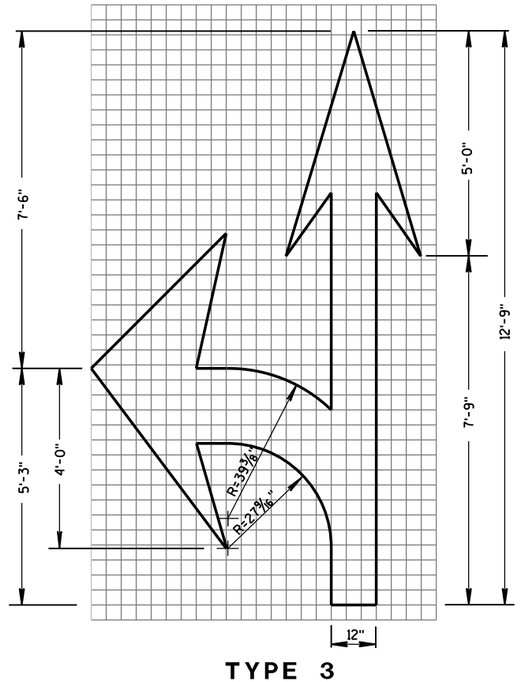

TYPE 3

PAVEMENT MARKING ARROWS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
4-18-16
DATE
/S/ Matthew R. Rauch
STATE SIGNING AND MAR
ENGINEER
FHWA

6

S.D.D. 15 C 7-13c

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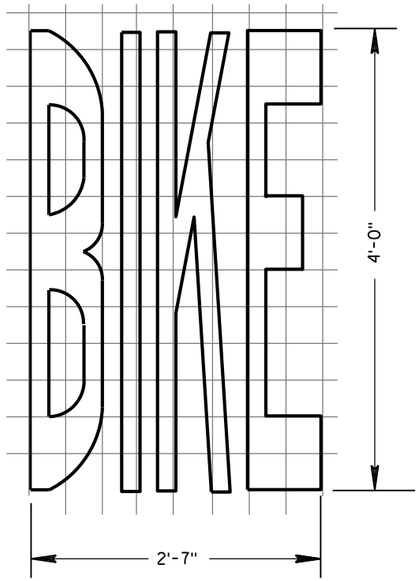
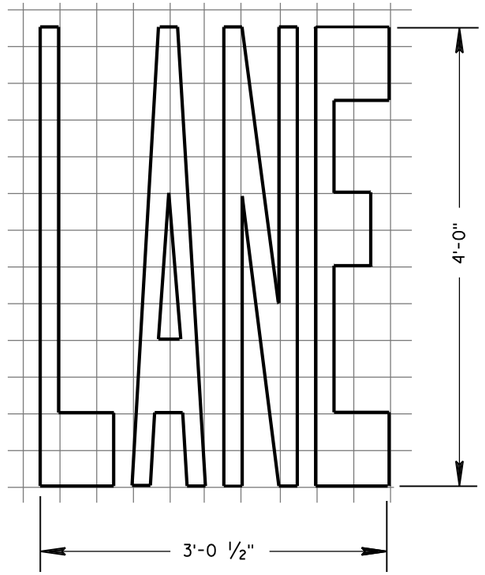
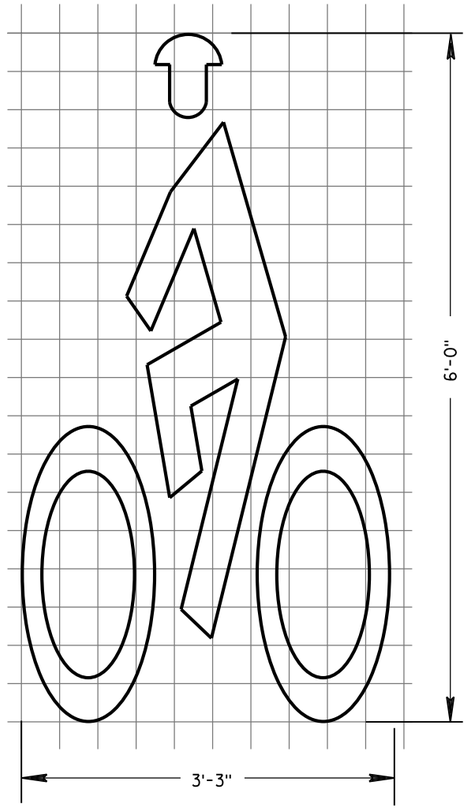
S.D.D. 15 C 7-13c

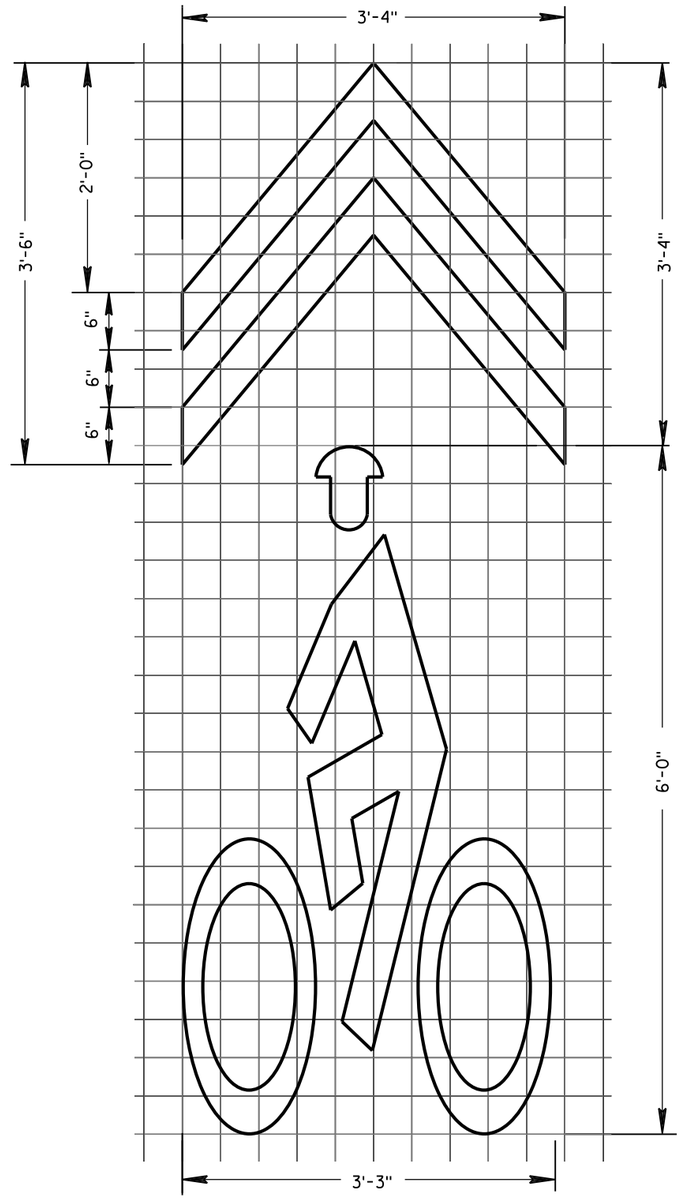




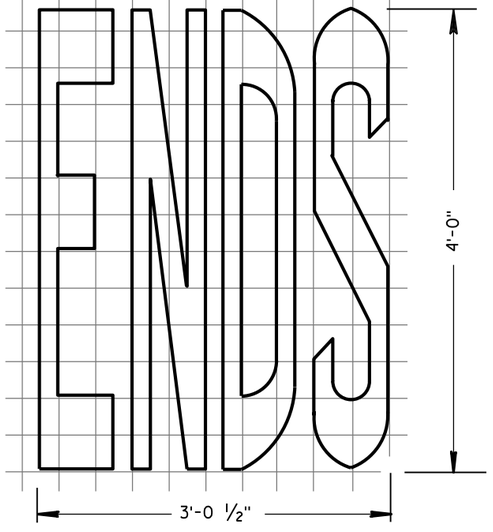
BIKE LANE WORDS



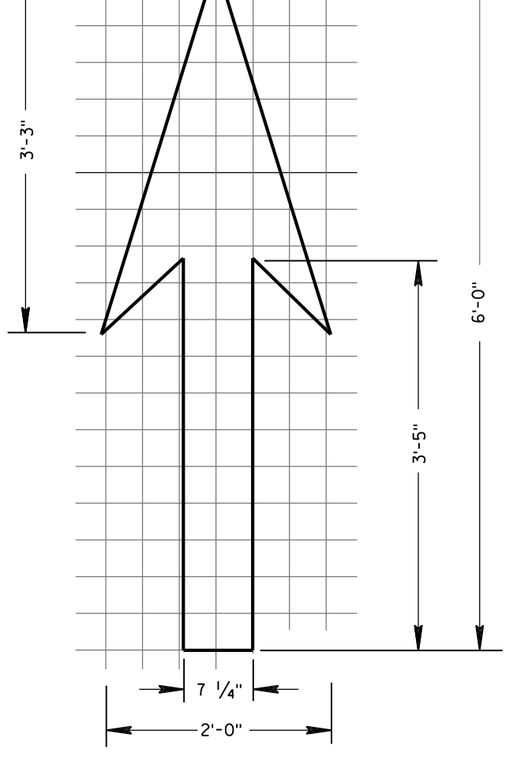
BIKE LANE SYMBOL



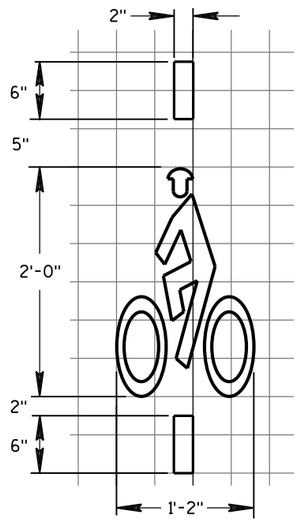
BIKE SYMBOL FOR SHARED LANE



BIKE LANE WORDS



BIKE LANE ARROW



BICYCLE DETECTOR PAVEMENT MARKING

GENERAL NOTES

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

PAVEMENT MARKING FOR BIKE LANES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

4-18-2016 DATE

/S/ Matthew R. Rauch
STATE SIGNING AND MARK ENGINEER

FHWA

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S.D.D. 15 C 7-13e

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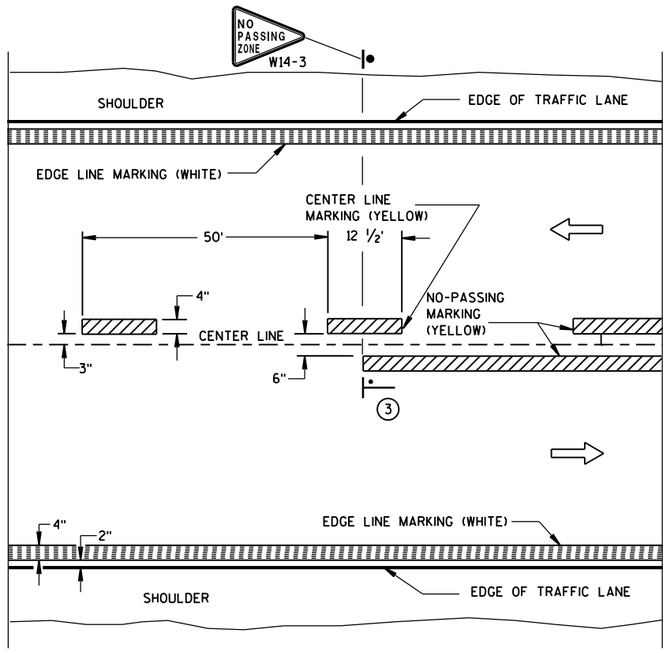
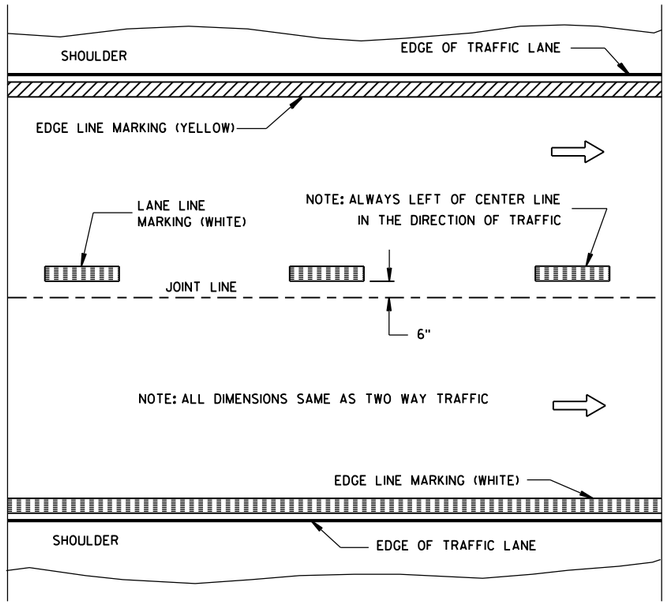
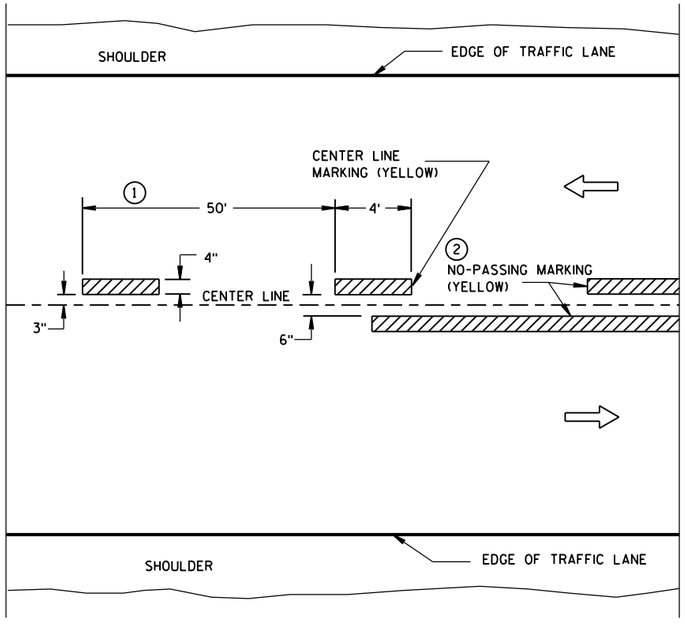


TWO WAY TRAFFIC

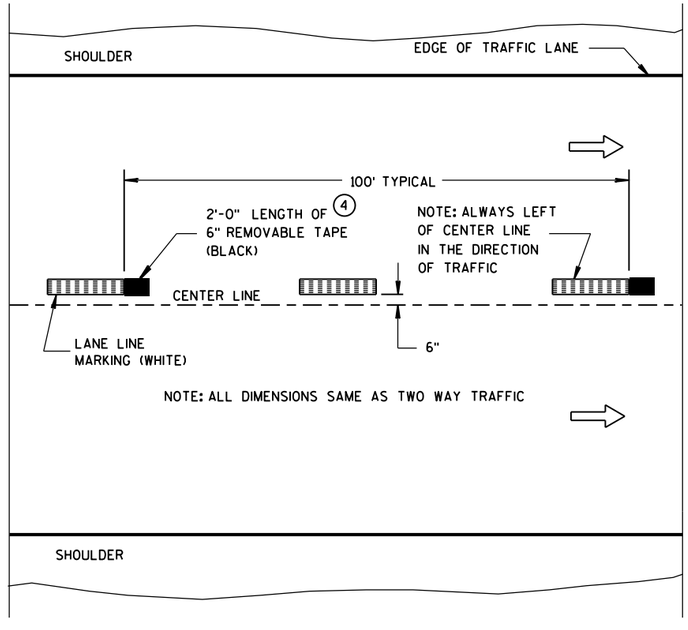


ONE WAY TRAFFIC

PERMANENT PAVEMENT MARKING



TWO WAY TRAFFIC



ONE WAY TRAFFIC

TEMPORARY (INTERMEDIATE) PAVEMENT MARKING

(SHOWS CYCLE FOR TEMPORARY CENTER LINE OR TEMPORARY LANE LINE MARKING)

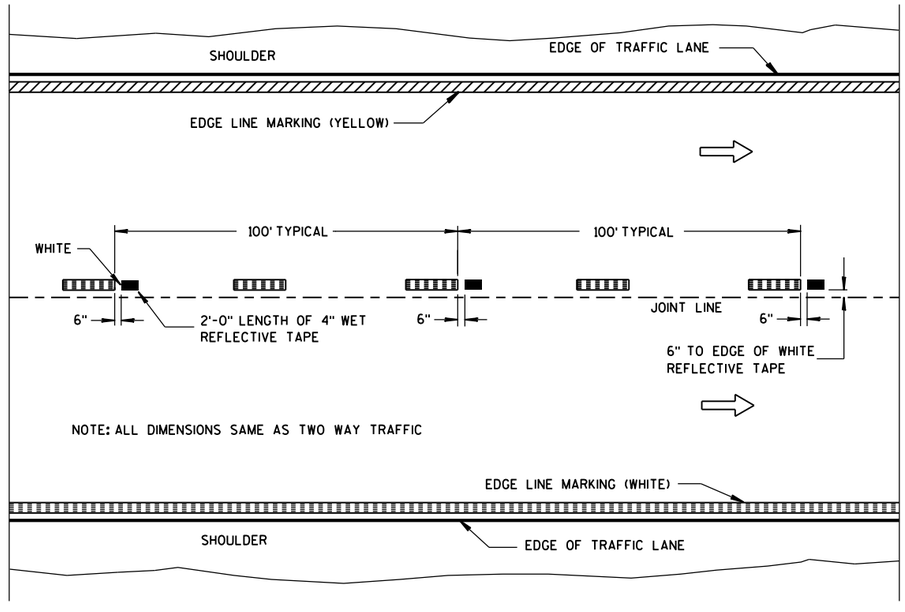
GENERAL NOTES

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

1. HALF CYCLE LENGTHS (25'±) WITH 2' MINIMUM STRIPE LENGTHS SHALL BE PROVIDED ON ROADWAYS (INCLUDING TEMPORARY TRAVELED WAYS) WITH REVERSE CURVATURE, CURVATURE OF OVER 5 DEGREES OR WHEN DIRECTED BY THE ENGINEER TO MARK UNUSUAL ALIGNMENT OF THE TRAVELED WAY.
2. NO PASSING ZONE TEMPORARY PAVEMENT MARKING IS REQUIRED TO BE PLACED, WHERE APPROPRIATE, ALONG WITH CENTERLINE TEMPORARY PAVEMENT MARKING WHEN A SAME DAY PERMANENT PAVEMENT MARKING ITEM IS INCLUDED IN THE CONTRACT.
3. NO PASSING ZONE MARKINGS ARE PLACED ACCORDING TO "T" MARKINGS. IF EXISTING NO PASSING ZONE W14-3 SIGNS ARE BEYOND 50 FEET IN EITHER DIRECTION, THE SIGNS SHALL BE MOVED TO THE "T" MARKINGS.
4. CONCRETE ONLY.

NOTE

ARROW SYMBOL (⇨) SHOWS DIRECTION OF TRAVEL



WET REFLECTIVE TAPE SUPPLEMENT TO
SPRAYED OR NON WET REFLECTIVE TAPE LANE LINE

LEGEND

"T" MARKING

POST MOUNTED SIGN

PAVEMENT MARKING (MAINLINE)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
5-13-2013 DATE
/S/ Travis Feltes STATE TRAFFIC E
FHWA

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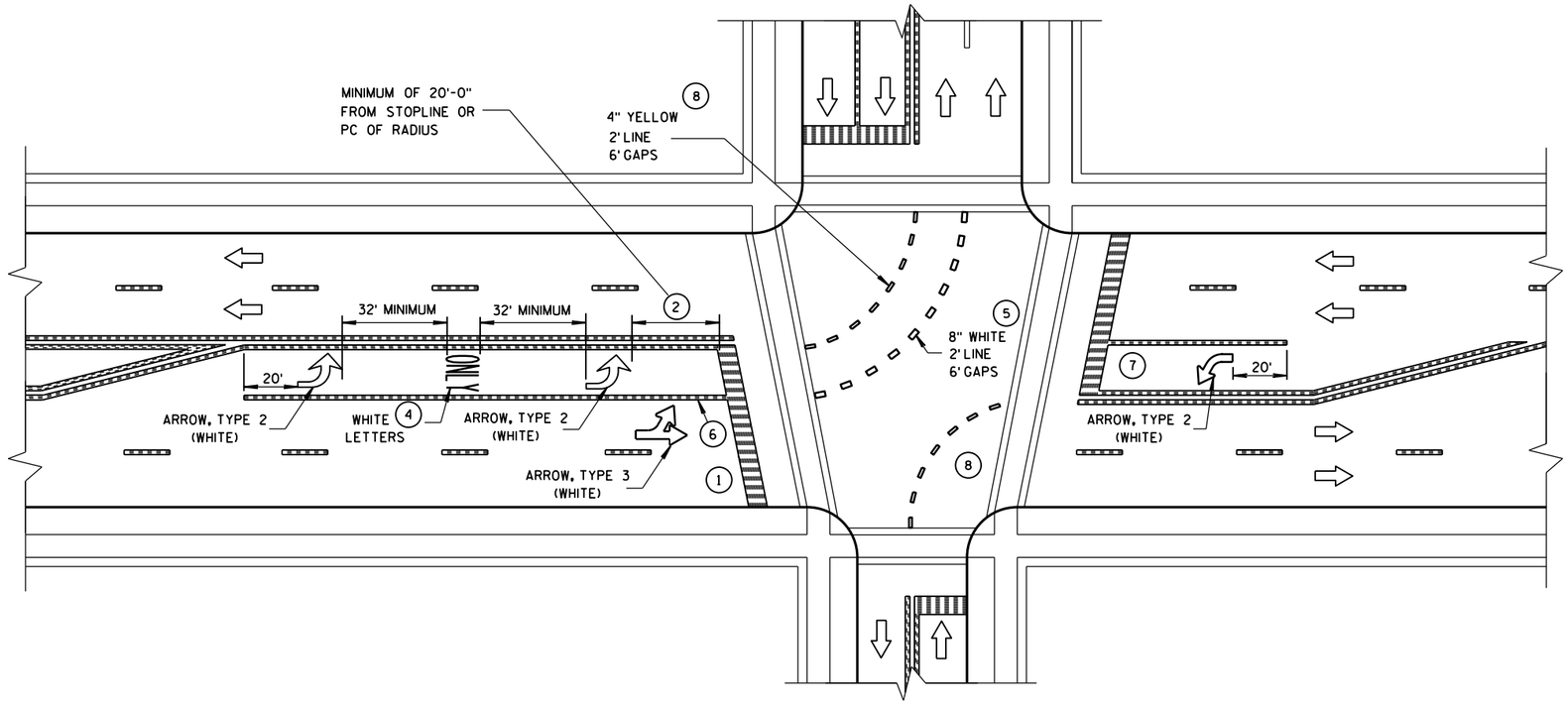
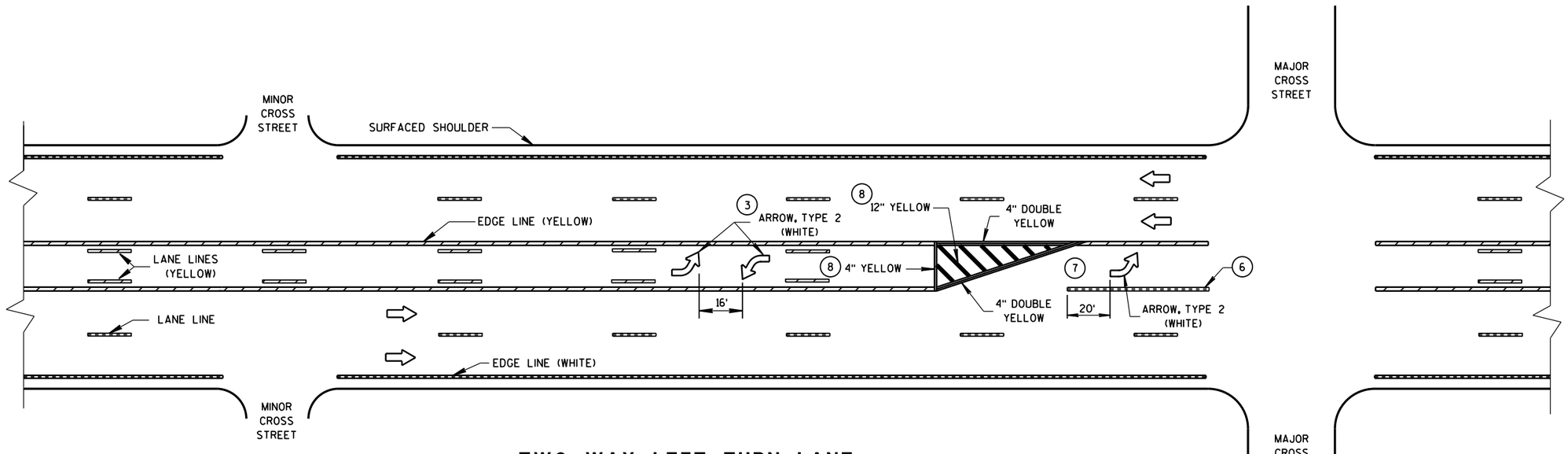
S.D.D. 15 C 8-16a



GENERAL NOTES

1. STOP BAR IS REQUIRED ONLY WHEN SPECIFIED IN THE CONTRACT.
2. DISTANCE MAY BE ADJUSTED TO ACCOMODATE SHORT LEFT TURN LANES. AS APPROVED BY THE ENGINEER.
3. A SET OF ARROWS IS REQUIRED EVERY 400 FEET OR NEAR INTERSECTIONS OR DRIVEWAYS WITH TURNING TRAFFIC.
4. ADD EXTRA SETS OF ONE ARROW AND ONE ONLY PER 160 FEET OR WHEN ON A CURVE.
5. 8" WHITE WITH 2' LINE 6' GAPS FOR DUAL TURN LANE.
6. 8" WHITE
7. ADD SECOND ARROW WHEN TURN BAY IS GREATER THAN OR EQUAL TO 108 FEET.
8. REQUIRED ONLY WHEN SPECIFIED IN THE CONTRACT.

NOTE:
ARROW SYMBOL (⇨)
SHOWS DIRECTION OF TRAVEL



TWO WAY LEFT TURN LANE

PAVEMENT MARKING (LEFT TURN LANE)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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S.D.D. 15 C 8-16e

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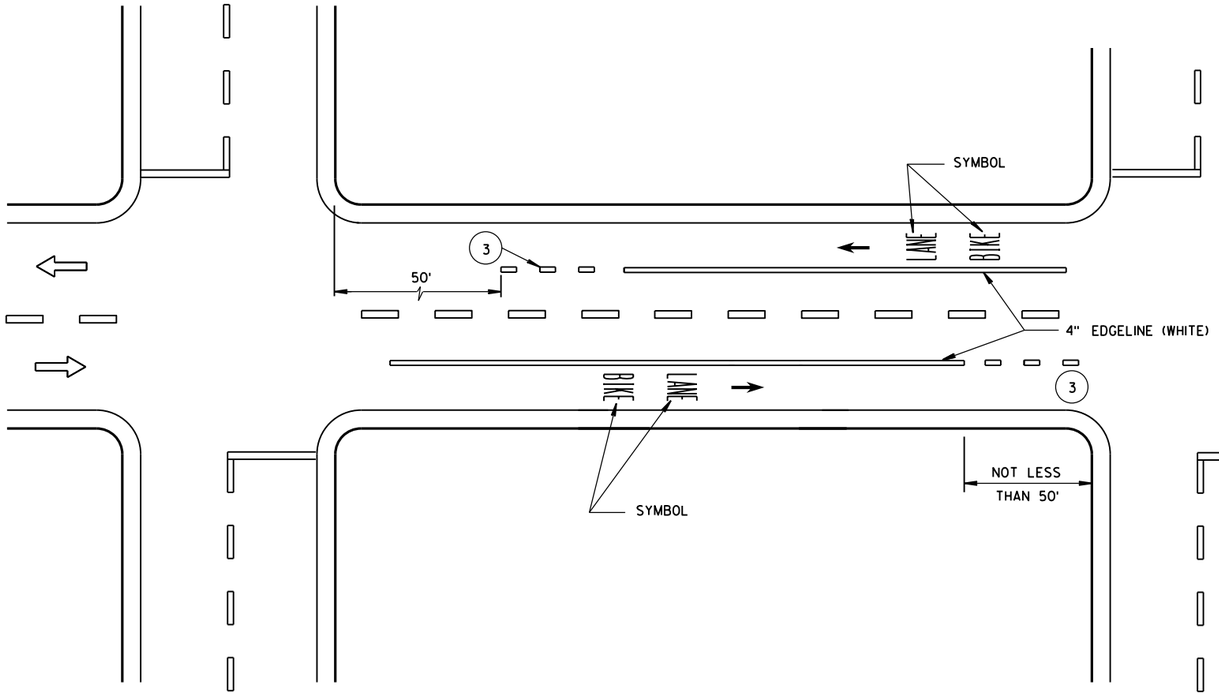
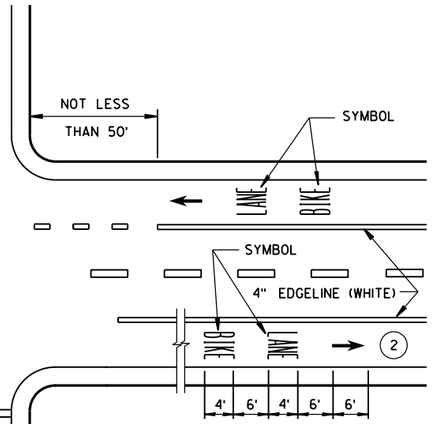
S.D.D. 15 C 8-16e



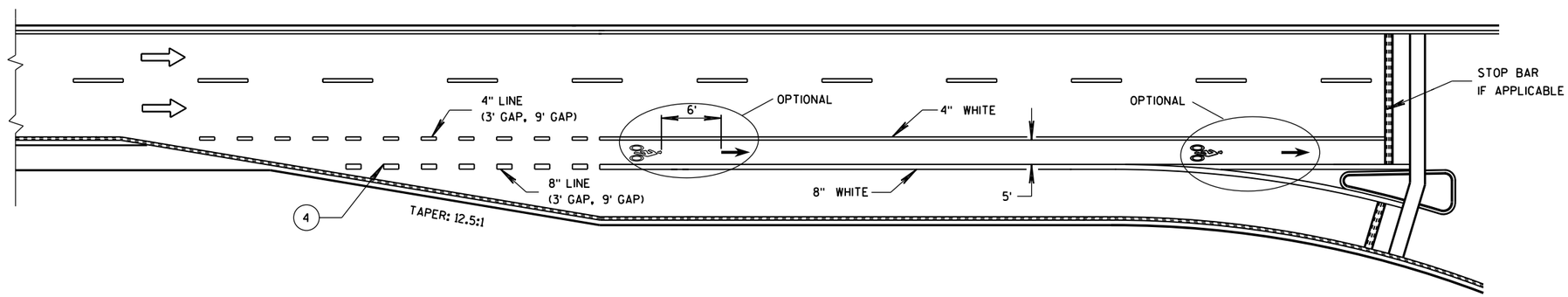


DESIGNATED BICYCLE LANE
NO PARKING

GENERAL NOTES

1. DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS.
2. MINIMUM OF ONE PER BLOCK. MAXIMUM OF 250 FEET.
3. DOTTED LINES (3'LINE, 9'GAP) SHOULD BE USED 50 FEET TO 200 FEET IN ADVANCE OF AN INTERSECTION WHERE THERE IS NO RIGHT TURN ONLY LANE AND THERE IS HEAVY RIGHT TURN TRAFFIC OR THERE IS A NEAR-SIDE BUS STOP. AT OTHER INTERSECTIONS WHERE RIGHT TURN TRAFFIC IS LIGHT TO MODERATE, A SOLID LINE CAN BE USED UP TO THE INTERSECTION.
4. IF SIGNED AND/OR MARKED AS A BICYCLE FACILITY INCLUDE SECOND LINE OF LINE-SPACE MARKING, OTHERWISE DO NOT.

DIRECTION OF TRAVEL



BIKE LANE - 4-LANE DIVIDED WITH RIGHT TURN LANE

BICYCLE LANE MARKING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
4-18-2016 DATE
/S/ Matthew R. Rauch
STATE SIGNING AND MAR NEER
FHWA

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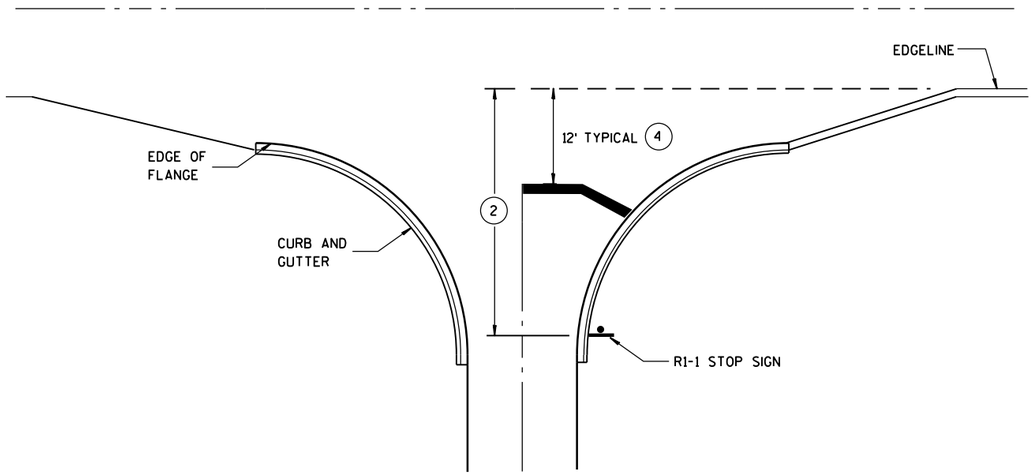
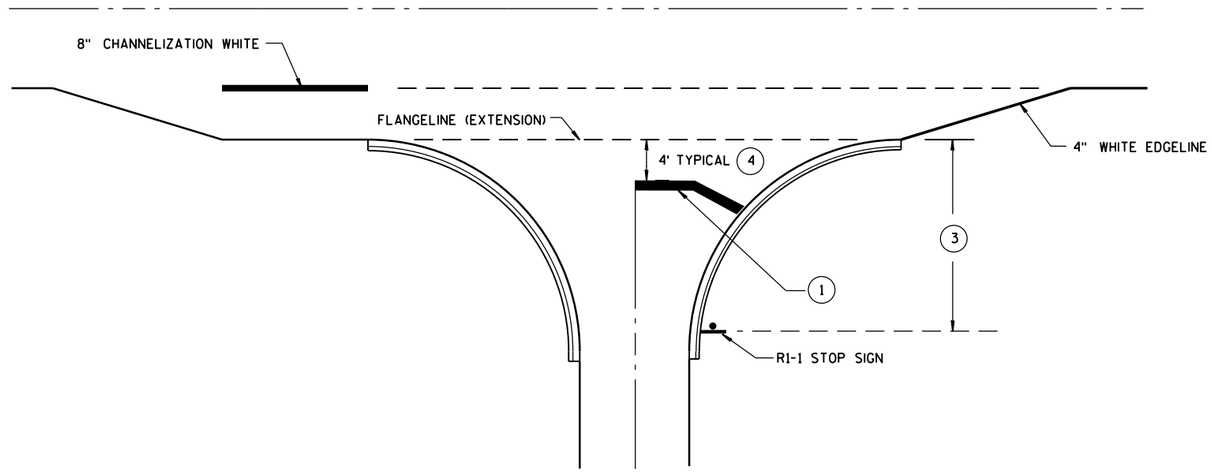
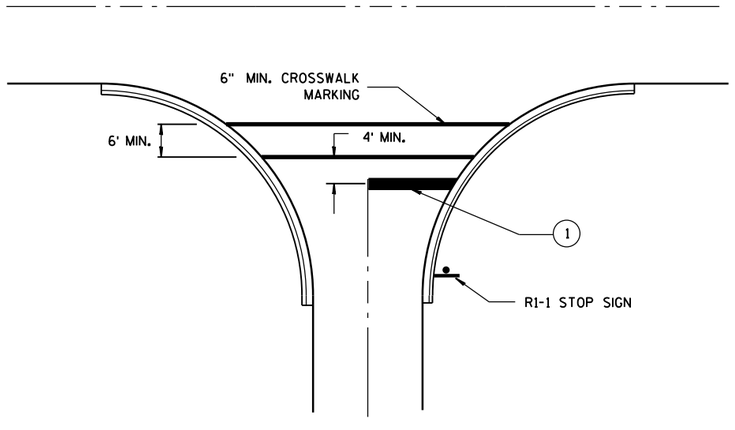
S.D.D. 15 C 29-4a



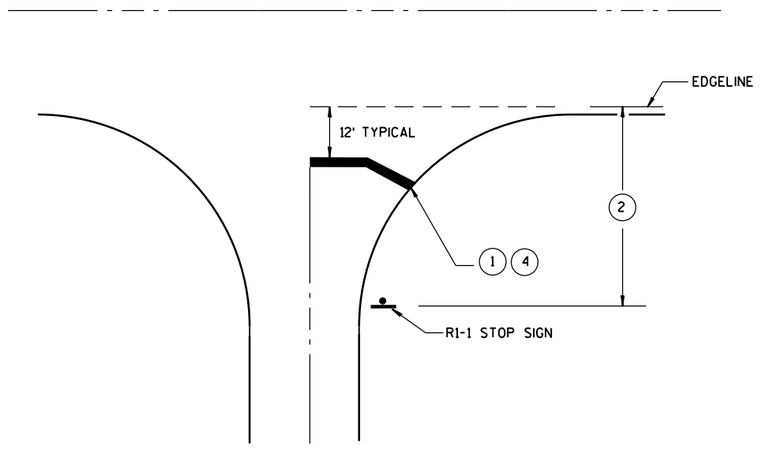
TYPICAL STOP LINE PAVEMENT MARKING WITH CURB AND GUTTER



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]NEER

FHWA

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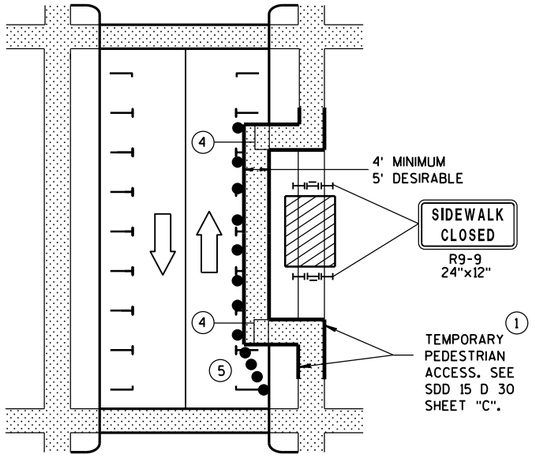
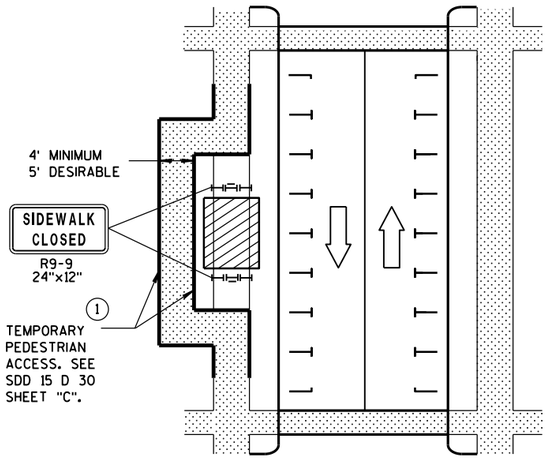
NOTE: MAY BE USED ON ROADWAY WITH POSTED SPEED OF LESS THAN 40 MPH.

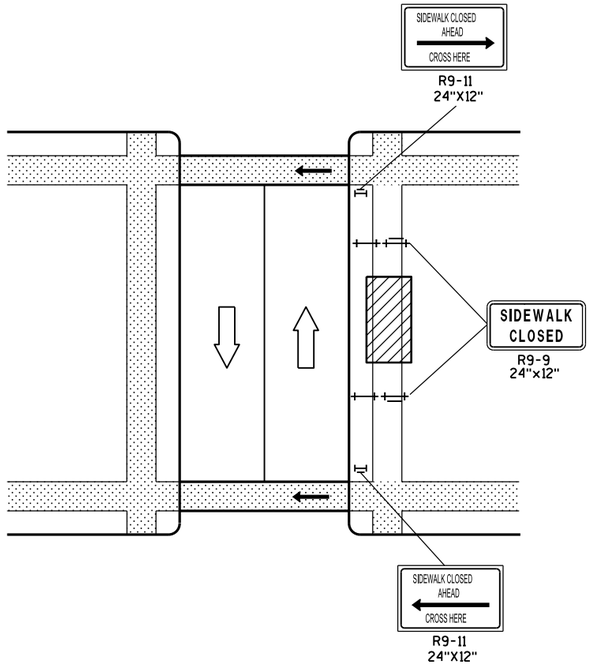


MID-BLOCK SIDEWALK CLOSURE IN PARKING LANE

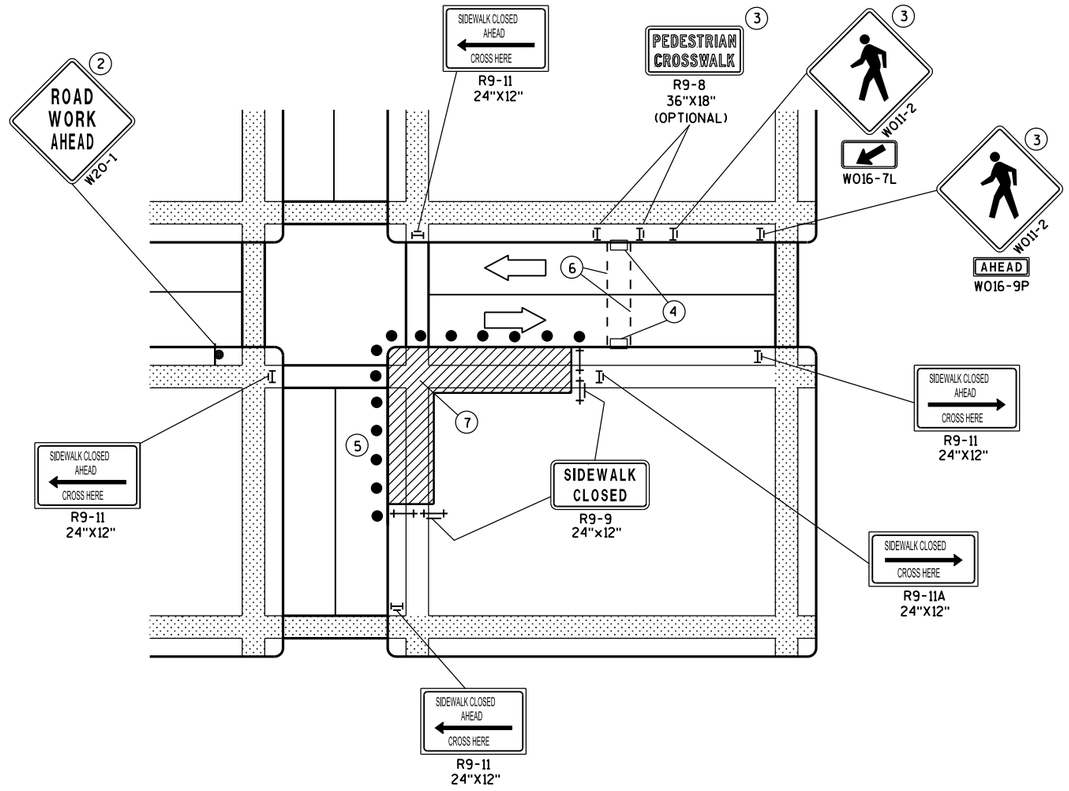
NOTE: LAYOUT SAME AS ABOVE.



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 TRANSPOR

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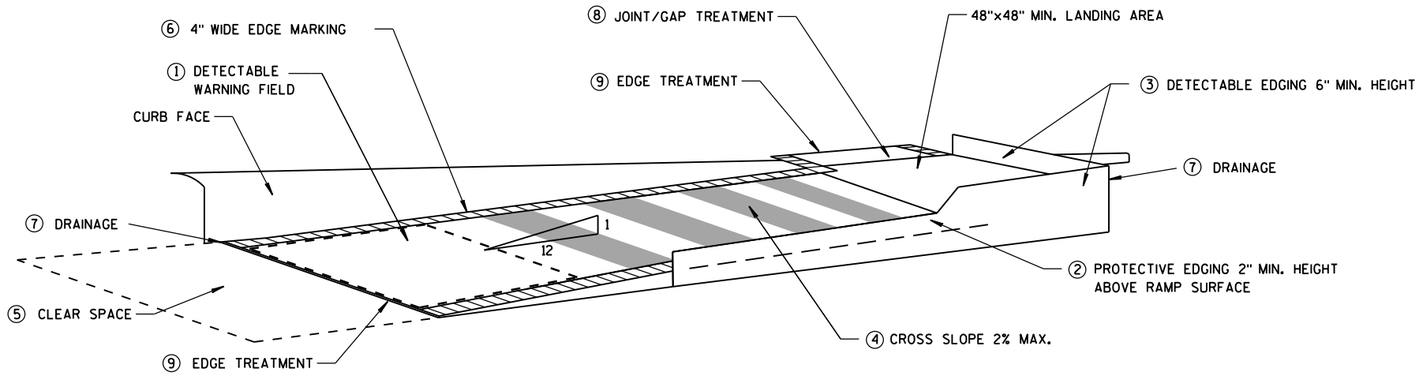
S.D.D. 15 D 30-3a



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.

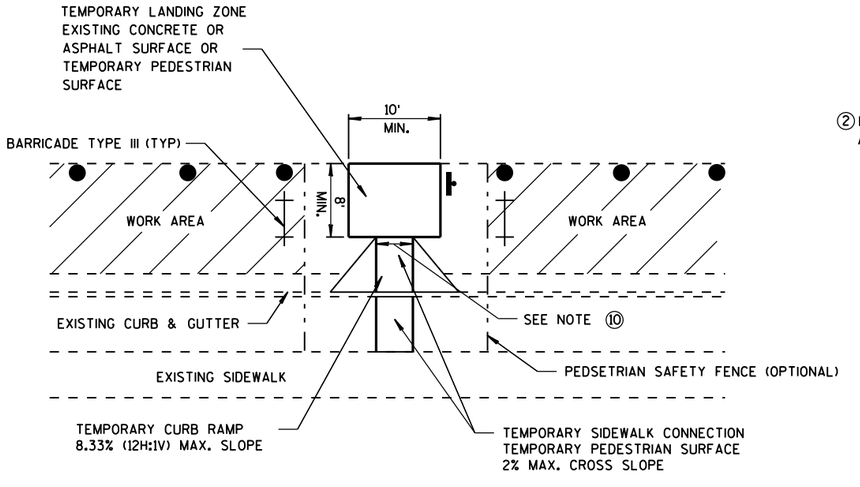
⑥ THE CURB RAMP WALKWAY EDGE SHALL BE MARKED WITH A YELLOW COLOR, 4" WIDE MARKING, UNLESS A CONTRASTING DETECTABLE WARNING FIELD IS PROVIDED.

⑦ DO NOT RESTRICT WATER FLOW IN THE GUTTER SYSTEM.

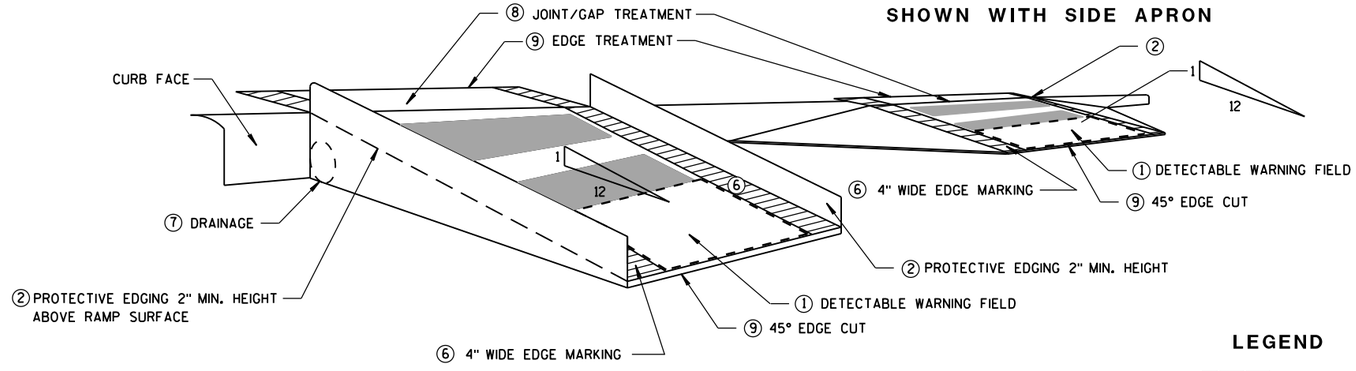
⑧ LATERAL JOINTS OR GAPS BETWEEN SURFACES SHALL BE LESS THAN 1/2" WIDTH.

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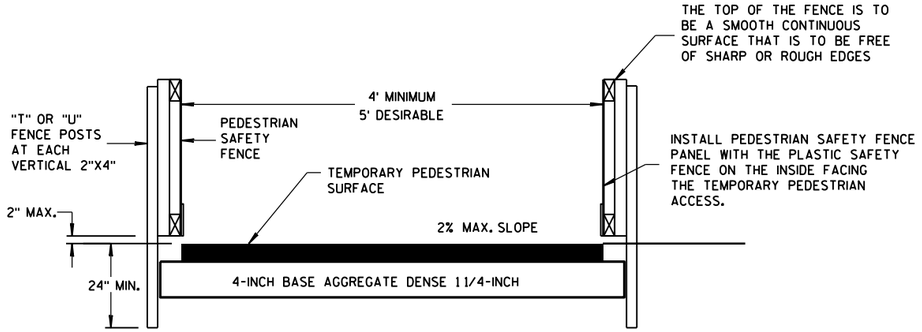
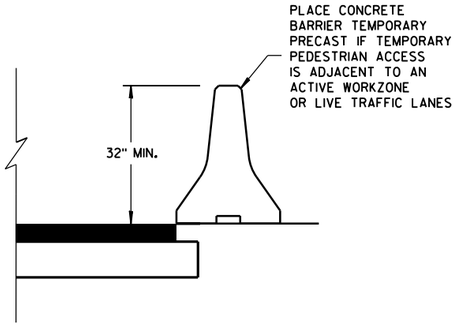
S.D.D. 15 D 30-3b

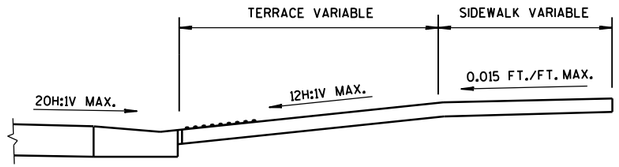




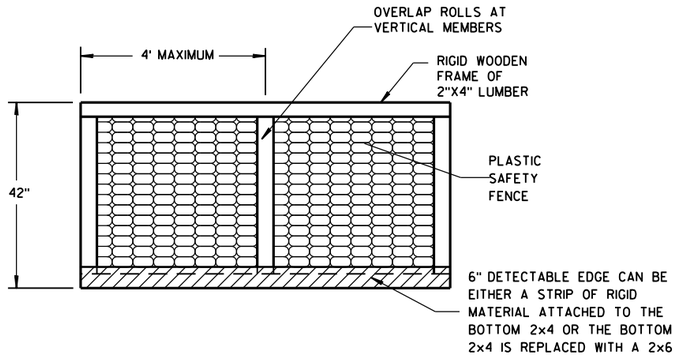
TEMPORARY PEDESTRIAN ACCESS

GENERAL NOTES

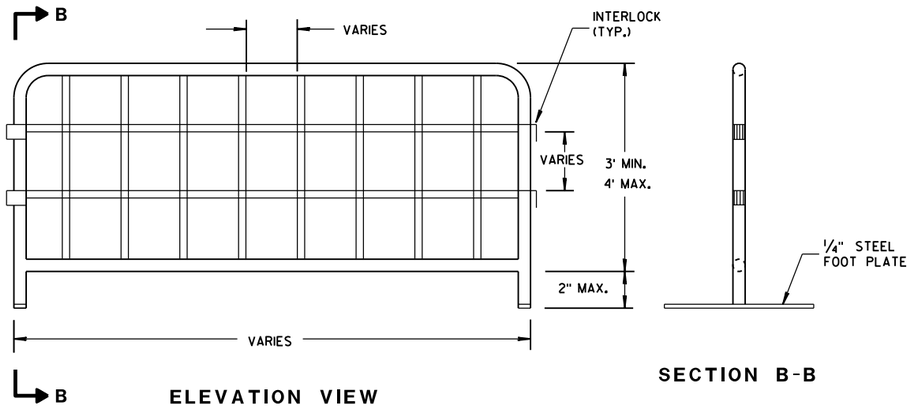
(1) INTERCHANGEABLE WITH THE PEDESTRIAN SAFETY FENCE.



SECTION A-A



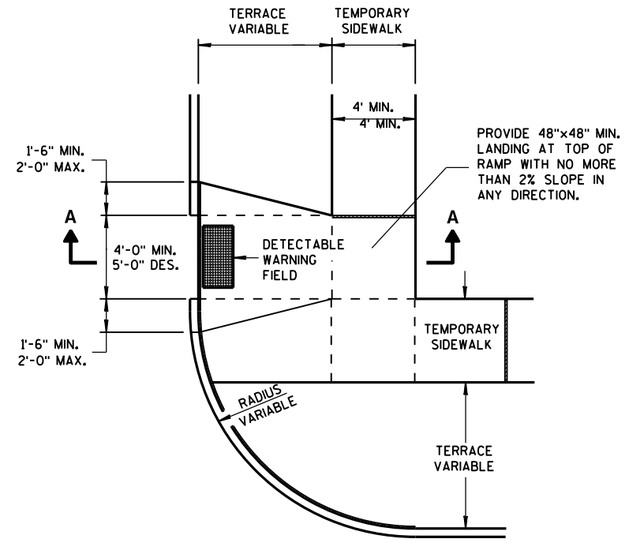
PEDESTRIAN SAFETY FENCE



ELEVATION VIEW

SECTION B-B

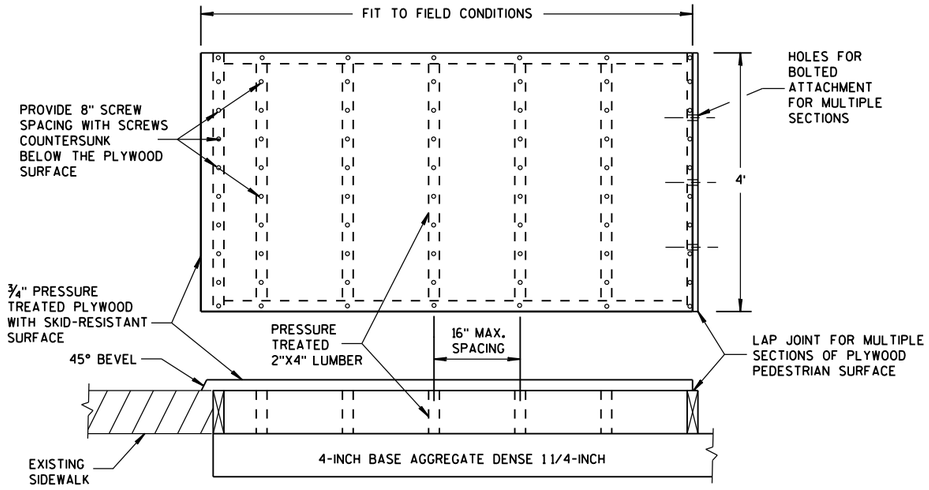
TEMPORARY PEDESTRIAN STEEL BARRICADE (1)



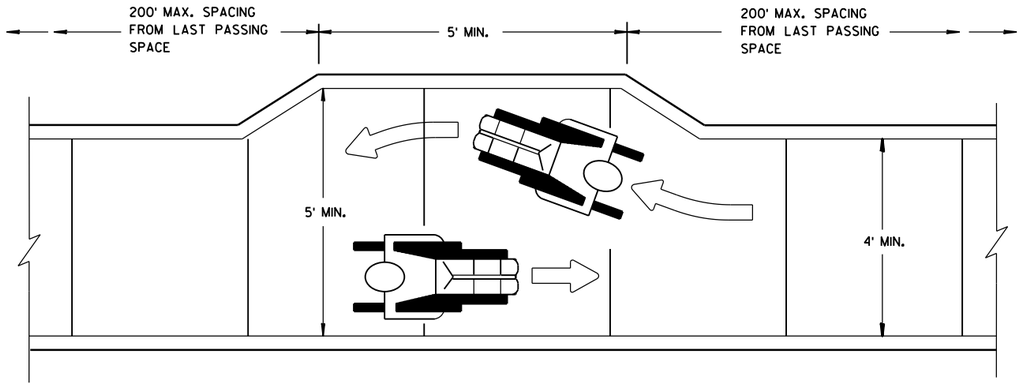
PLAN VIEW

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

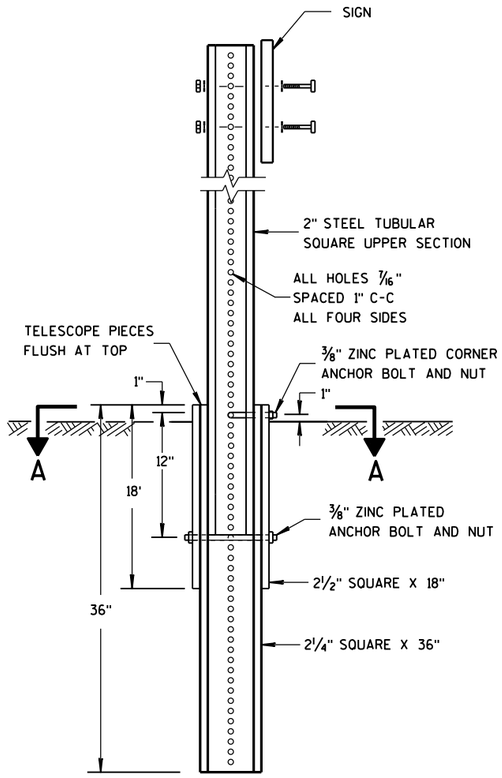
APPROVED
June 2016
DATE
/S/ Peter Amakobe Atepe
STATEWIDE WORK ZON IC
SAFETY ENGIN
FHWA

6

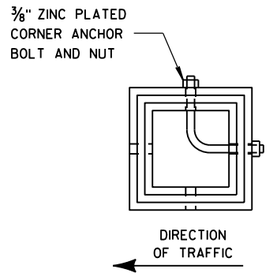
S.D.D. 15 D 30-3c

6

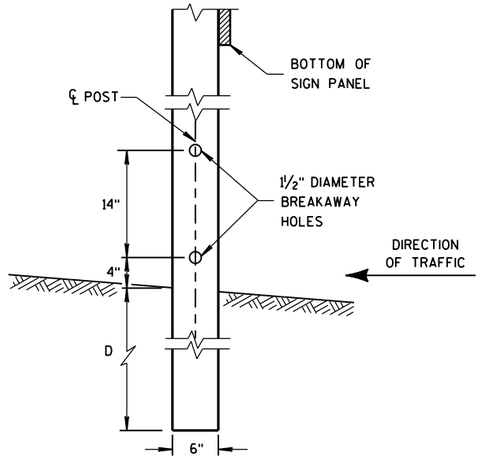
S.D.D. 15 D 30-3c



DETAIL OF TUBULAR STEEL SIGN POST



SECTION A-A



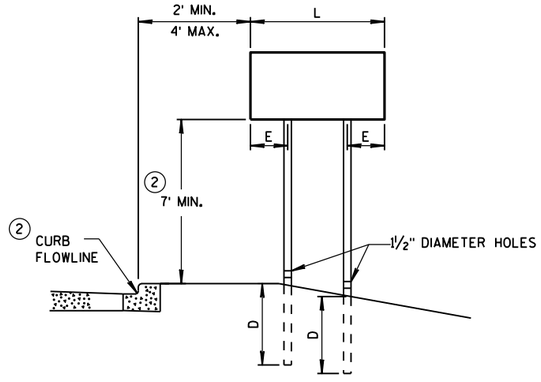
4"x6" WOOD POST MODIFICATION

GENERAL NOTES

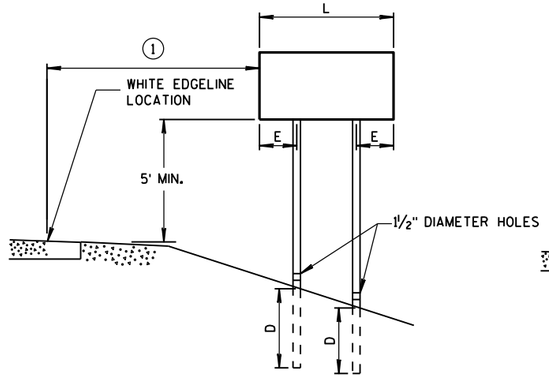
(1) 6 FEET FROM THE EDGE OF PAVEMENT (EDGE LINE LOCATION) UNLESS OTHERWISE DIRECTED BY THE PROJECT ENGINEER. LATERAL OFFSET SHOULD BE ADJUSTED TO AVOID THE DITCH FLOWLINE.

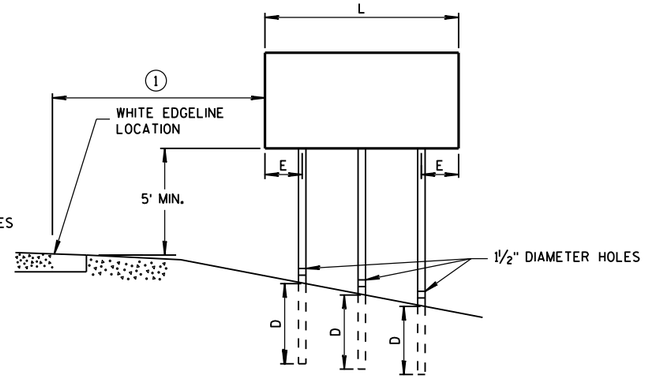
(2) THE EXISTENCE OF CURB AND GUTTER DOES NOT IN ITSELF MANDATE THE VERTICAL CLEARANCE ILLUSTRATED. THAT HEIGHT IS TYPICALLY MEASURED WHERE THERE IS SIDEWALK ADJACENT TO THE ROADWAY OR PARKING IS PERMITTED. IN THE ABSENCE OF SIDEWALK, VERTICAL CLEARANCE IS MEASURED FROM THE TOP OF THE CURB. IF NO SIDEWALK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

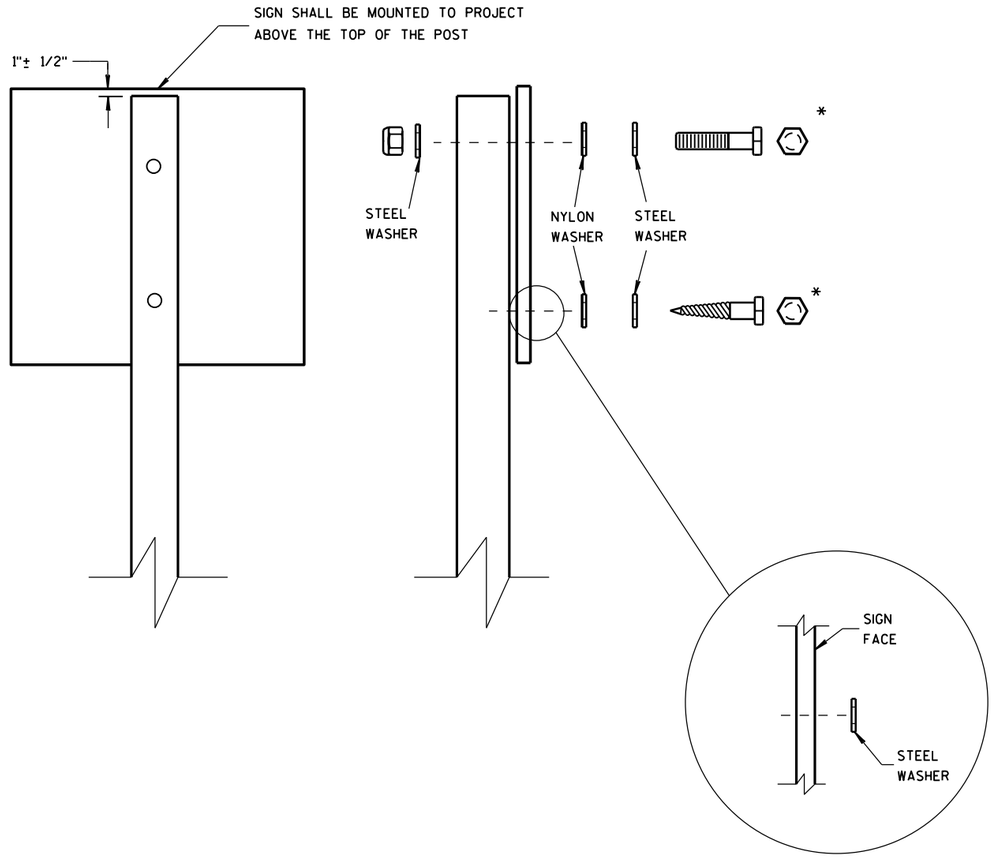
SEE NOTE (3)

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

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

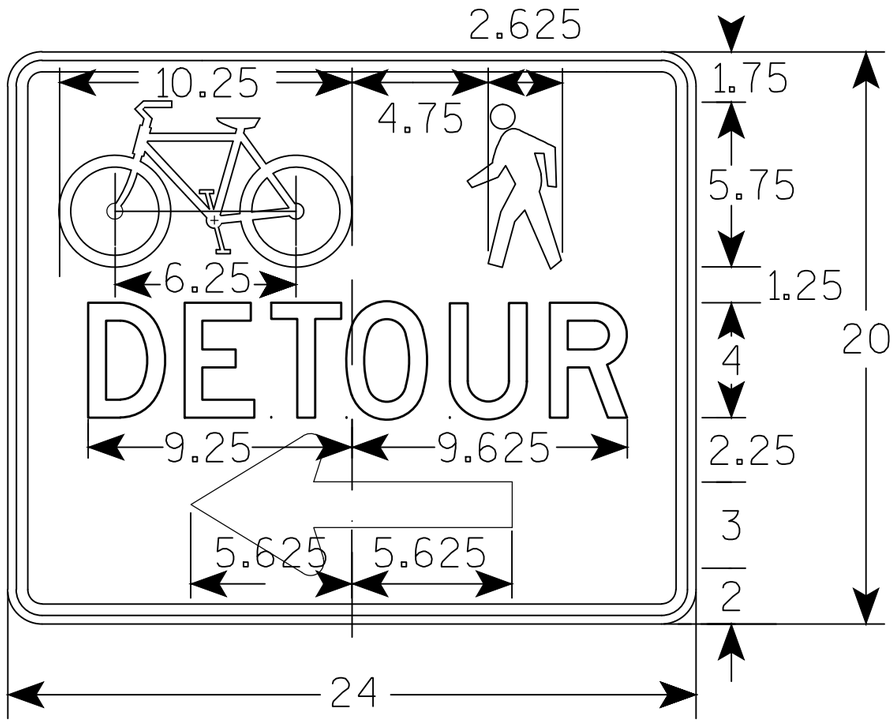
NOTES

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

1.125" Radius, 0.500" Border, 0.375" Indent,

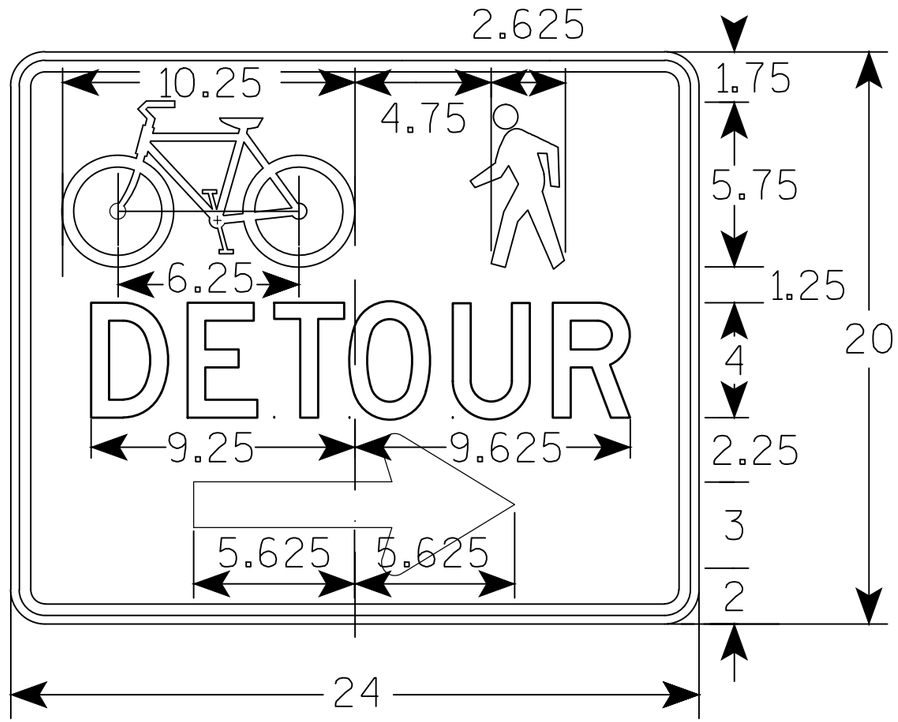
NOTES

1. All Signs are Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Message Series - D except as Shown



M4-9BL (MOD)

1/2" Border
3/8" Margin
1 1/8" Radius



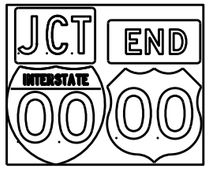
M4-9BR (MOD)

1/2" Border
3/8" Margin
1 1/8" Radius

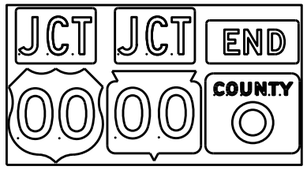
PROJECT NO: 4085-42-71	HWY: WIS 32 (8TH STREET)	COUNTY: BROWN	SIGN PLATES	SHEET 145	E

TYPICAL ASSEMBLIES

J1-1

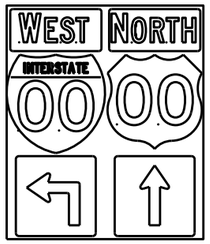


J1-2

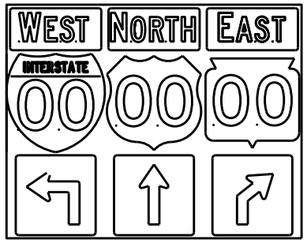


J1-3

J2-1



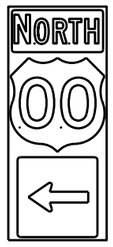
J2-2



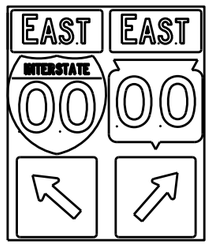
J2-3

JV

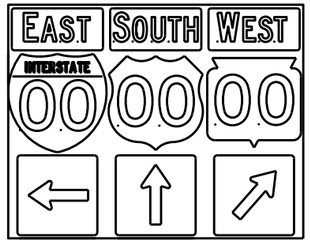
(Typical Vertical J-Assembly
See Note 10 and 11)



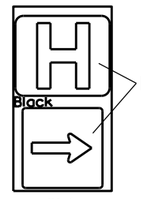
J3-1



J3-2



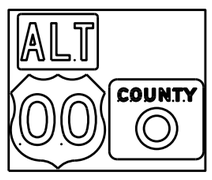
J3-3



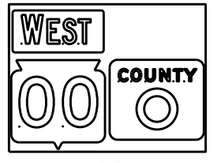
Blue Background

JH-1

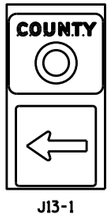
J4-1



J4-2



J4-2



J13-1

J12-1

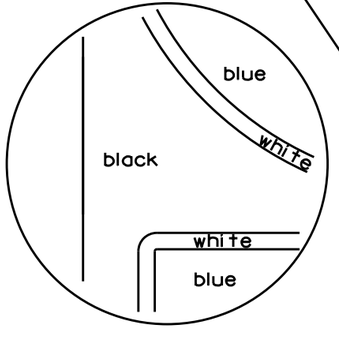
J32-1

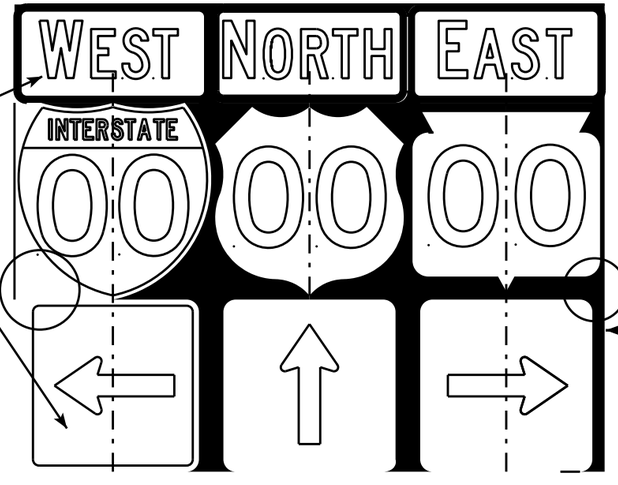
J33-1

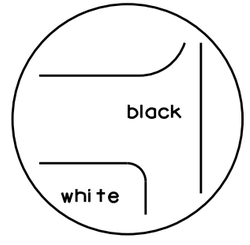
J23-1

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

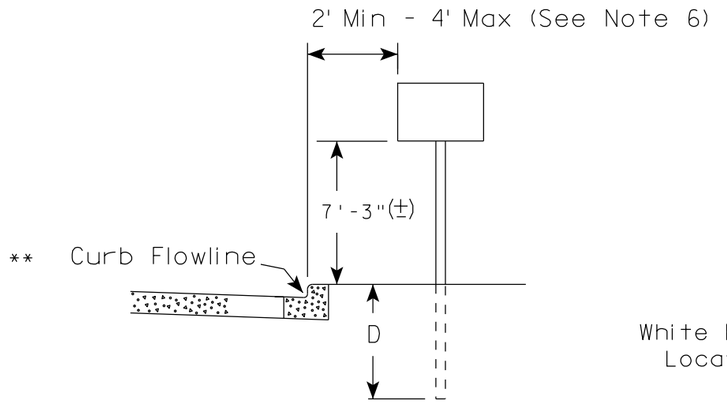
PROJECT NO:

SHEET NO: E

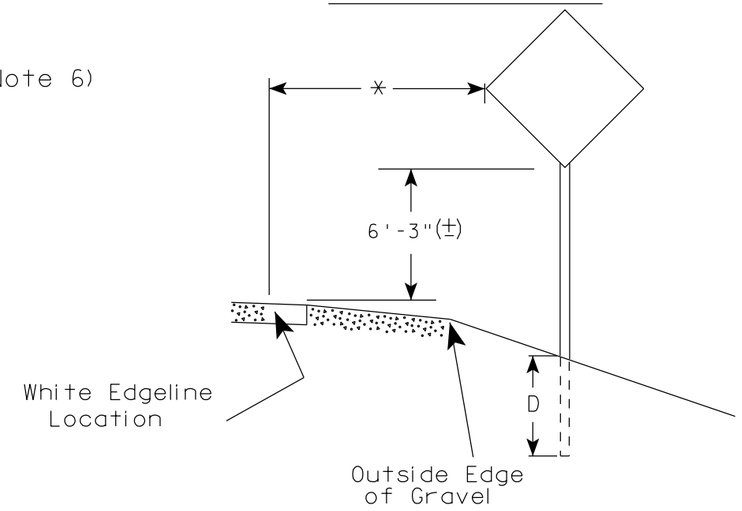
FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A21S.DGN PLOT DATE : 06-FEB-2014 14:10 PLOT BY : mscsja PLOT NAME :

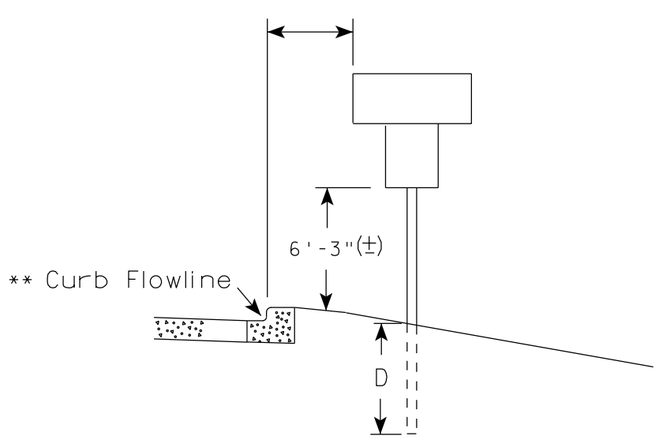
WISDOT/CADDS SHEET 42

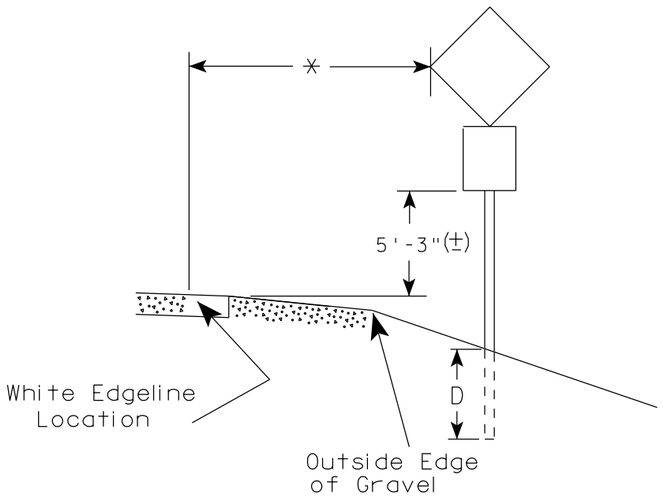
URBAN AREA



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" (±).

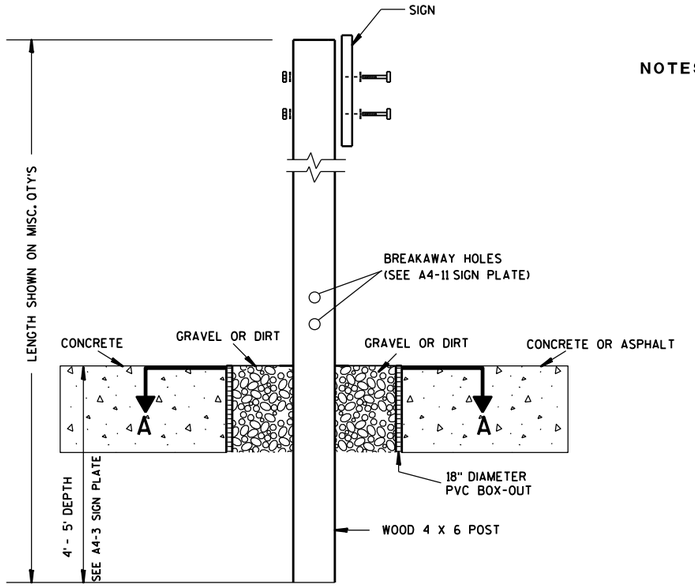
TYPICAL INSTALLATION OF PERMANENT TYPE II SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

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

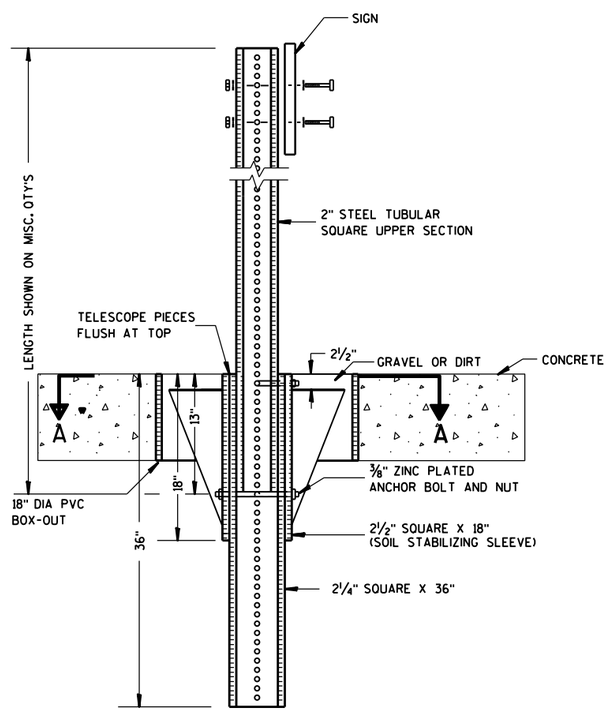
PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E



ELEVATION VIEW

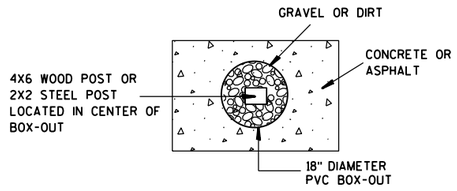
DETAIL OF WOOD 4 X 6 SIGN POST IN BOX-OUT

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

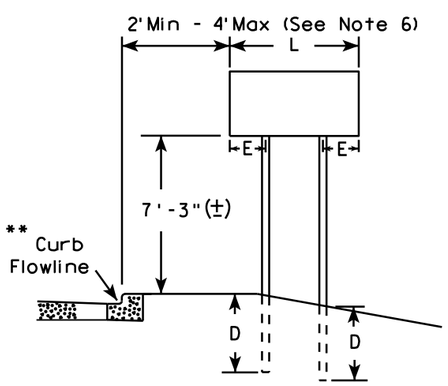
APPROVED Matthew R Rauch
for State Traffic Engineer

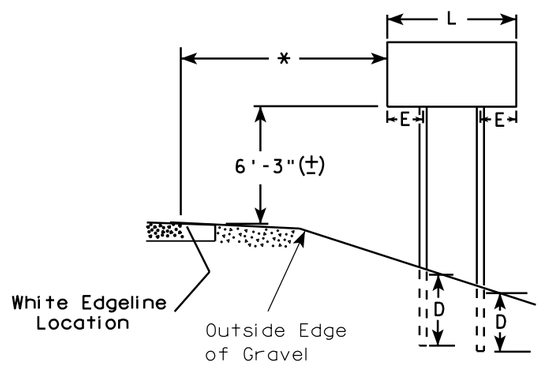
DATE 1/27/14 PLATE NO. A4-3B.1

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

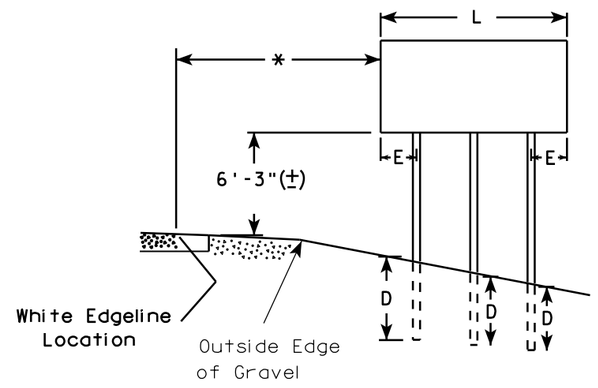




48" DIAMOND WARNING SIGN

RURAL AREA (See Note 3)

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

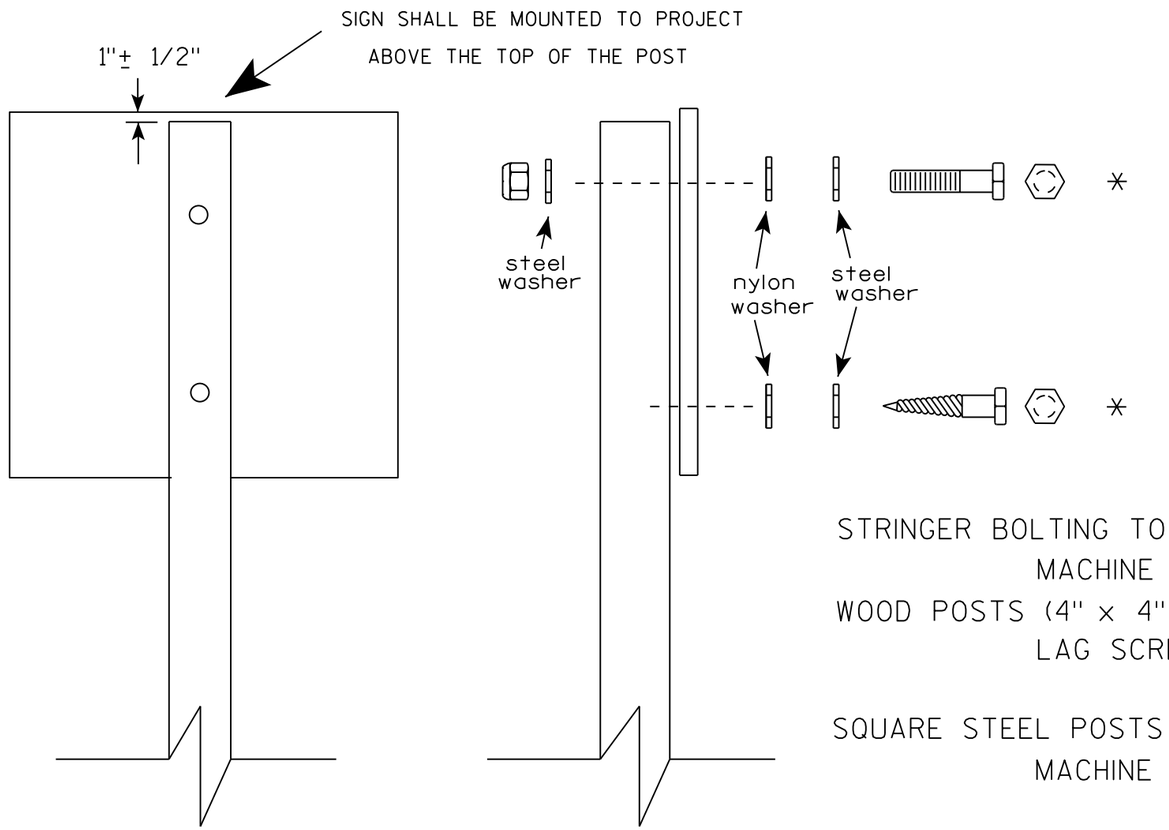
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

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

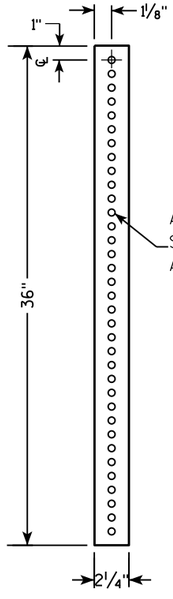
DATE 8/11/16 PLATE NO. A4-8.8

PROJECT NO: SHEET NO: E

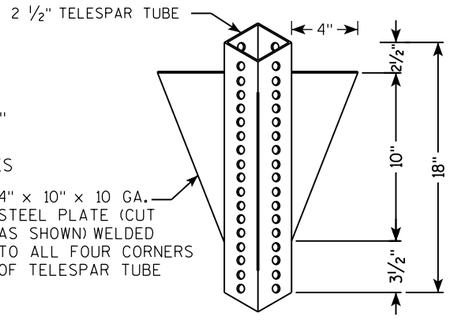
FILE NAME : C:\CADfiles\Projects\tr_stdplate\A48.DGN PLOT DATE : 11-AUG-2016 11:35 PLOT BY : $$ plotuser $$

TELESCOPIC TUBING ANCHORS
TWO PIECE SYSTEM

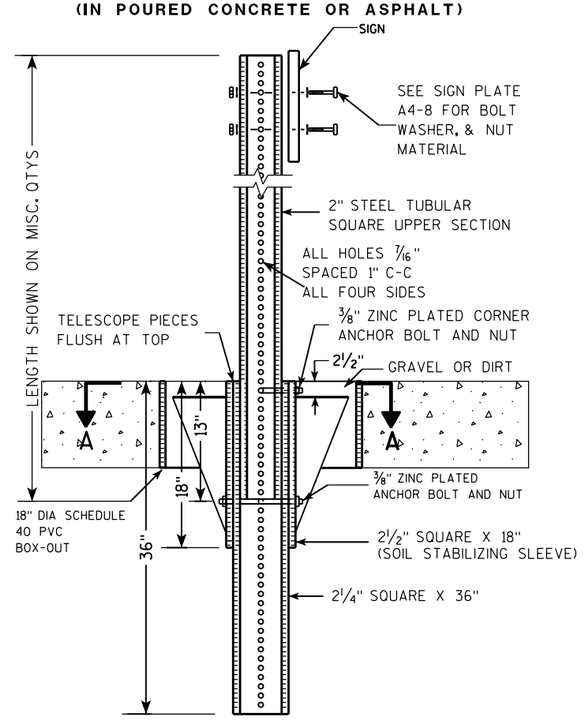
2 1/4 " SQUARE
12 GAUGE
PERFORATED
GALVANIZED FINISH



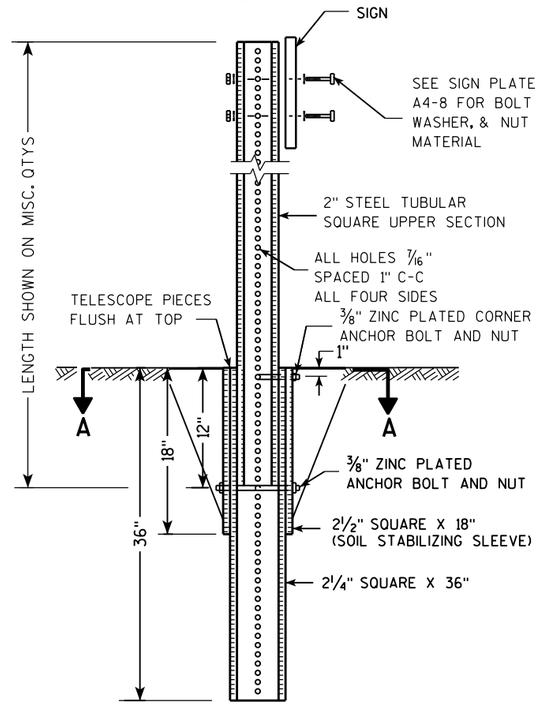
2 1/2 " SQUARE
12 GAUGE
OMNI-DIRECTIONAL
PERFORATED
SOIL STABILIZING SLEEVE
GALVANIZED FINISH

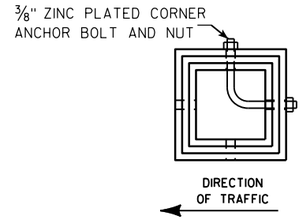


DETAIL OF TUBULAR STEEL SIGN POST
(IN POURED CONCRETE OR ASPHALT)



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

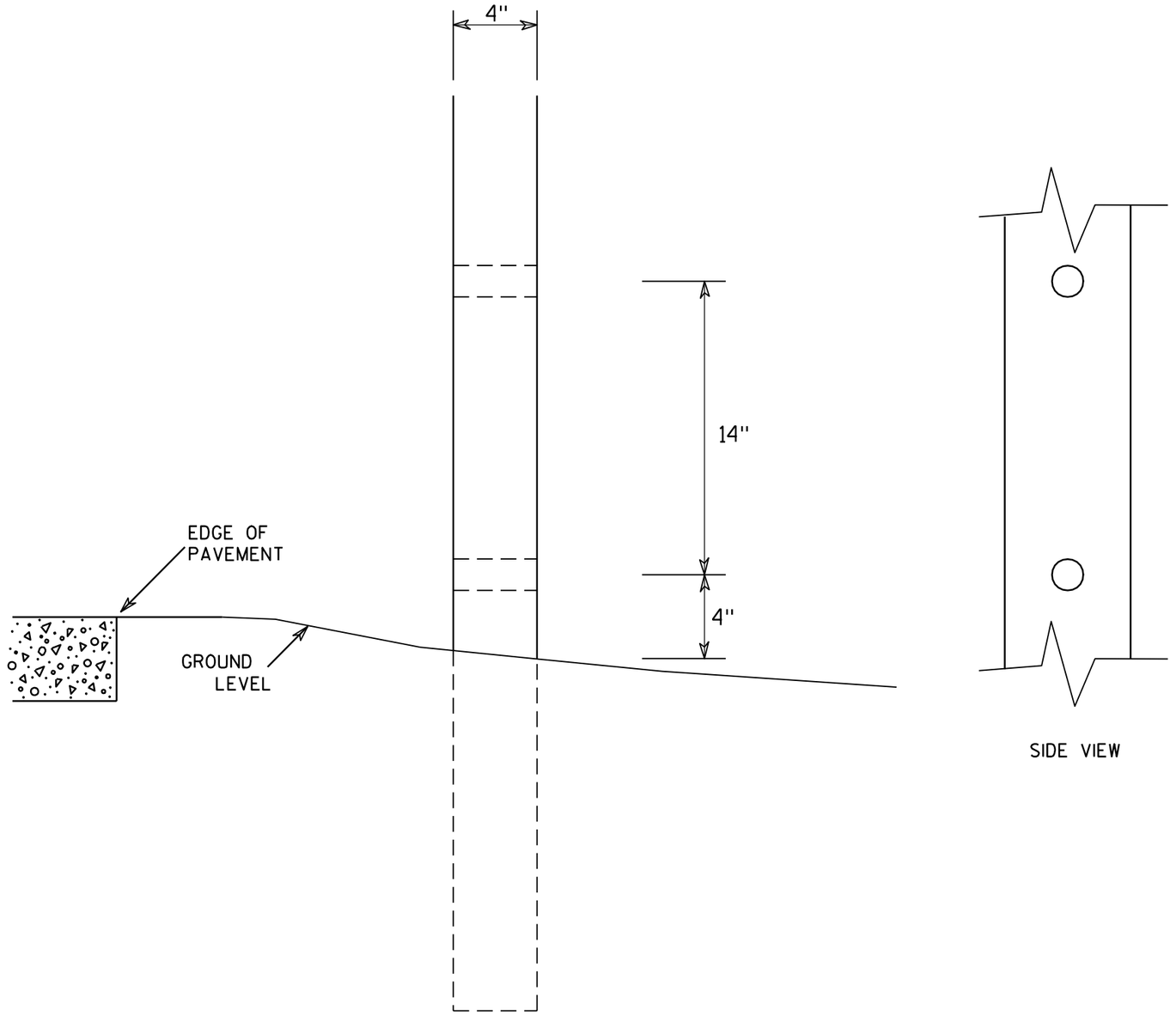
WISCONSIN DEPT OF TRANSPORTATION

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

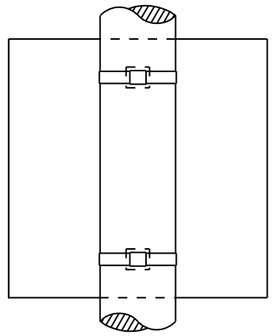
APPROVED Chester J Spang
for State Traffic Engineer

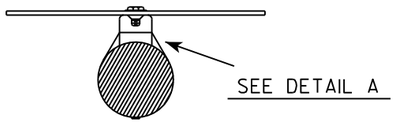
DATE 3/27/97 PLATE NO. A4-11.2

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 152	E

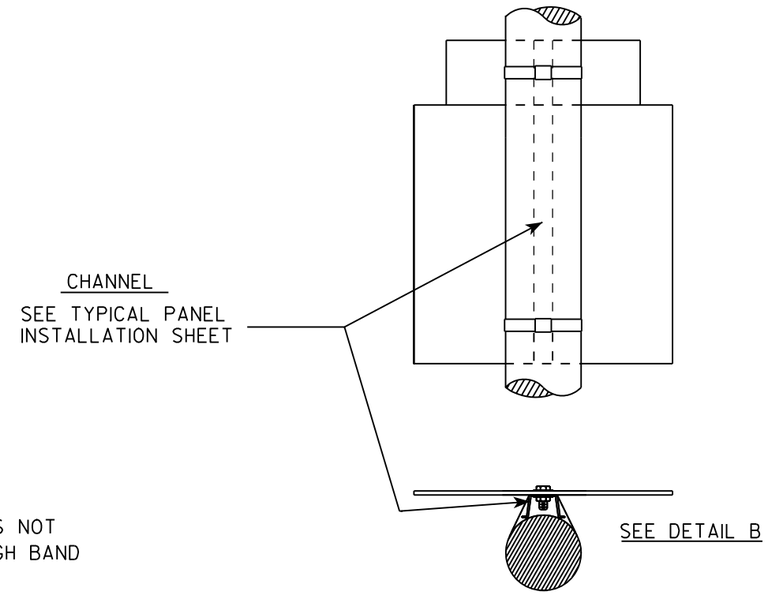
BANDING

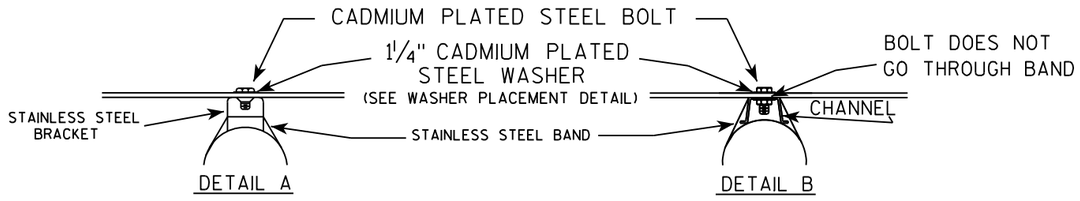
SINGLE SIGN



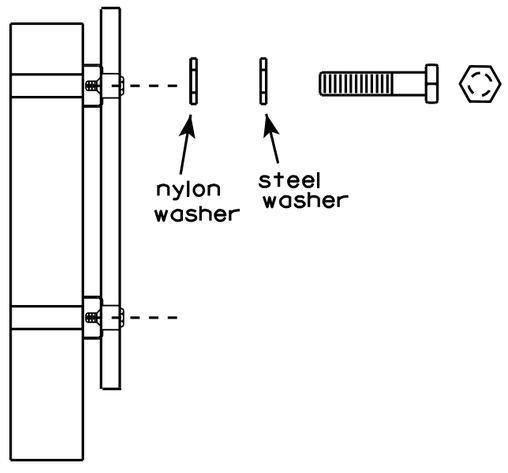


"J" ASSEMBLY





WASHER PLACEMENT



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

GENERAL NOTES

1. Any sign over 3 feet in width shall use the V-Block banding method. See A5-10 standard plate.
2. Signs 3 feet or greater in height shall have three bracket bands installed. Signs less than 3 feet in height shall have two bracket bands installed.
3. Banding and assembly bracket shall be stainless steel. All bands shall be 3/4" in width and 0.025" thickness.

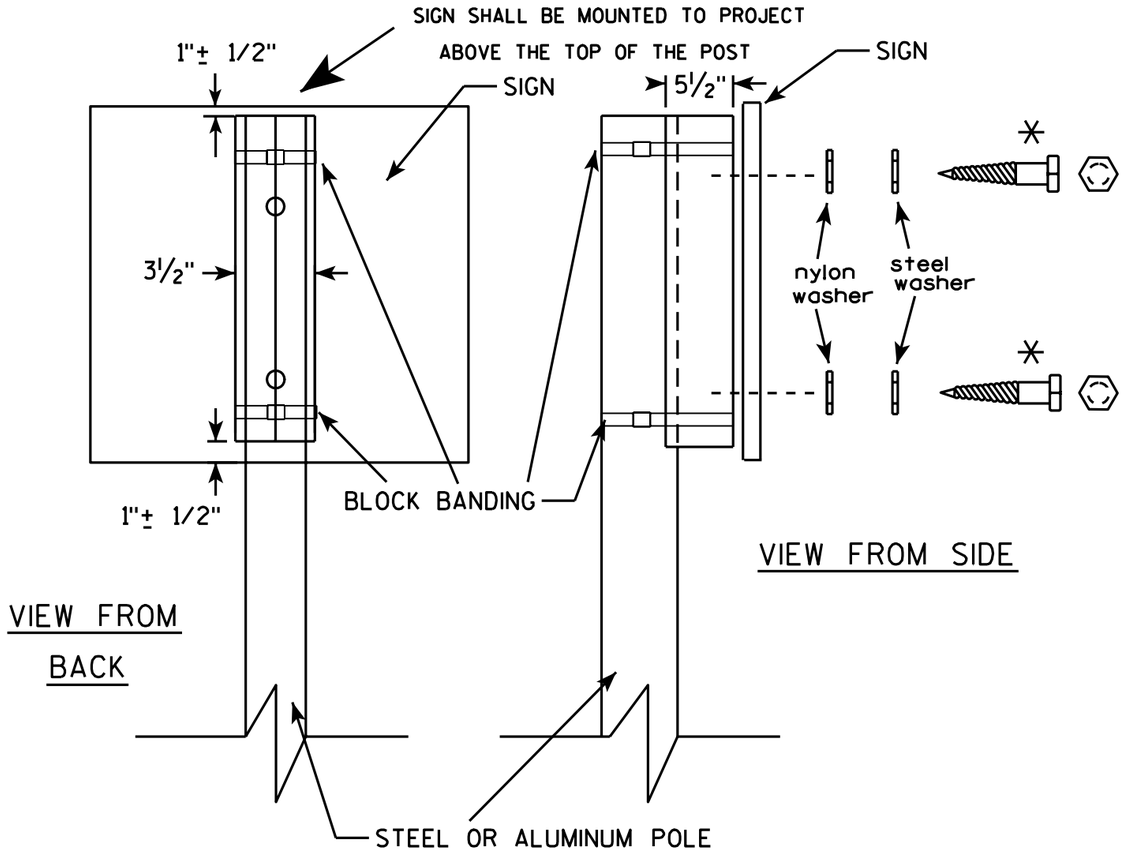
STANDARD SIGN
SIGN BANDING DETAILS

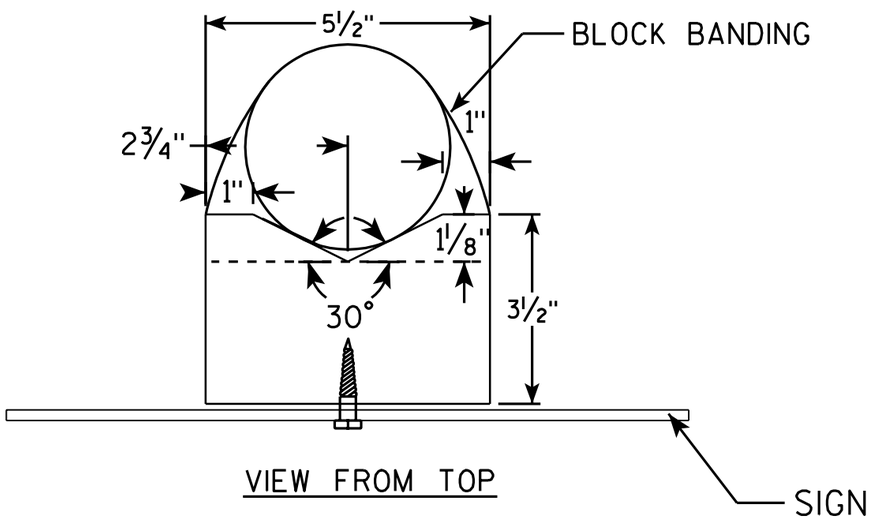
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 8/16/13 PLATE NO. A5-9.3

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 153	E





GENERAL NOTES

1. WOOD 4"X6" POST MATERIAL SHALL CONFORM TO 507.2.2 OF THE WisDOT STANDARD SPECIFICATIONS
2. BLOCK BANDING AND CLIPS SHALL BE STAINLESS STEEL, ¾" WIDTH AND 0.025" THICKNESS
3. SIGNS 3' OR GREATER IN HEIGHT SHALL UTILIZE 3 BLOCK BANDS. SIGNS UNDER 3' IN HEIGHT SHALL UTILIZE 2 BLOCK BANDS
4. ACTUAL NUMBER OF FASTENERS PER SIGN VARIES WITH THE SIGN AREA, BUT NORNALLY THERE ARE TWO. FOR SIGNS GREATER THAN 9 S.F. 3 FASTENERS SHALL BE USED.
5. ALL SIGN MOUNTING BOLTS AND WASHERS SHALL BE EITHER:
   a. Hot dip or mechanically galvanized in accordance with ASTM Designation: A 153, Class D, or
   b. Cadmium plated in accordance with ASTM Designation : B 766 TYPE 3, Class 12, or
   c. Electro-galvanized in accordance with ASTM Designation : B 633, TYPE III, SC 3.
6. ALL BOLTS SHALL HAVE HEXAGONAL HEADS.
7. STEEL WASHERS SHALL BE 1¼" O.D. X ⅜" I.D. X 1/16"
8. NYLON WASHERS SHALL BE 1¼" O.D. X ⅜" I.D. X .080 FOR TYPE H OR TYPE F FACE SIGN

✳ LAG BOLTS SHALL BE ⅜" X 2½"

BLOCK BANDING DETAIL (V-BLOCK OPTION)

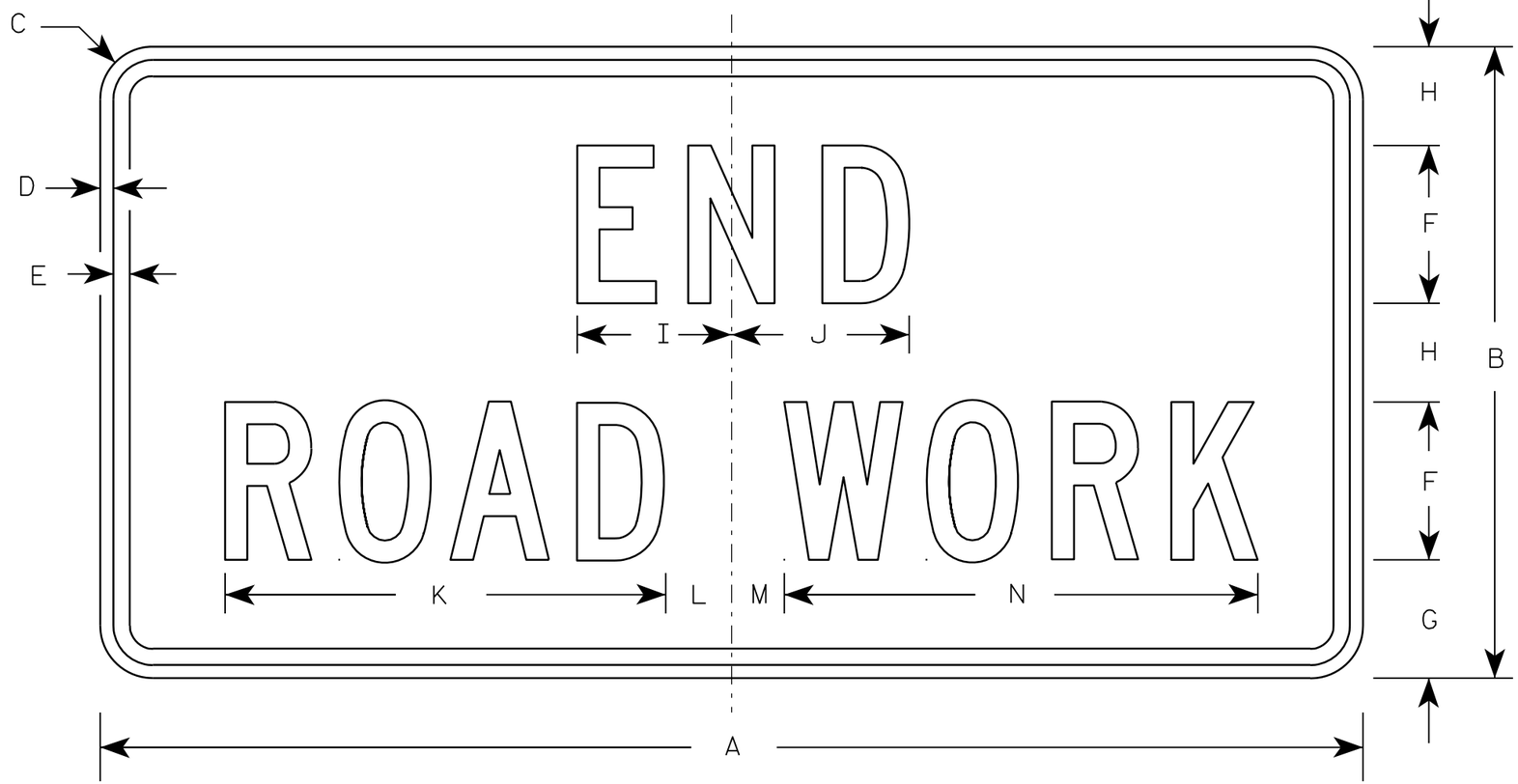
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 7/12/07 PLATE NO. A5-10.1

PROJECT NO:

SHEET NO: 154 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

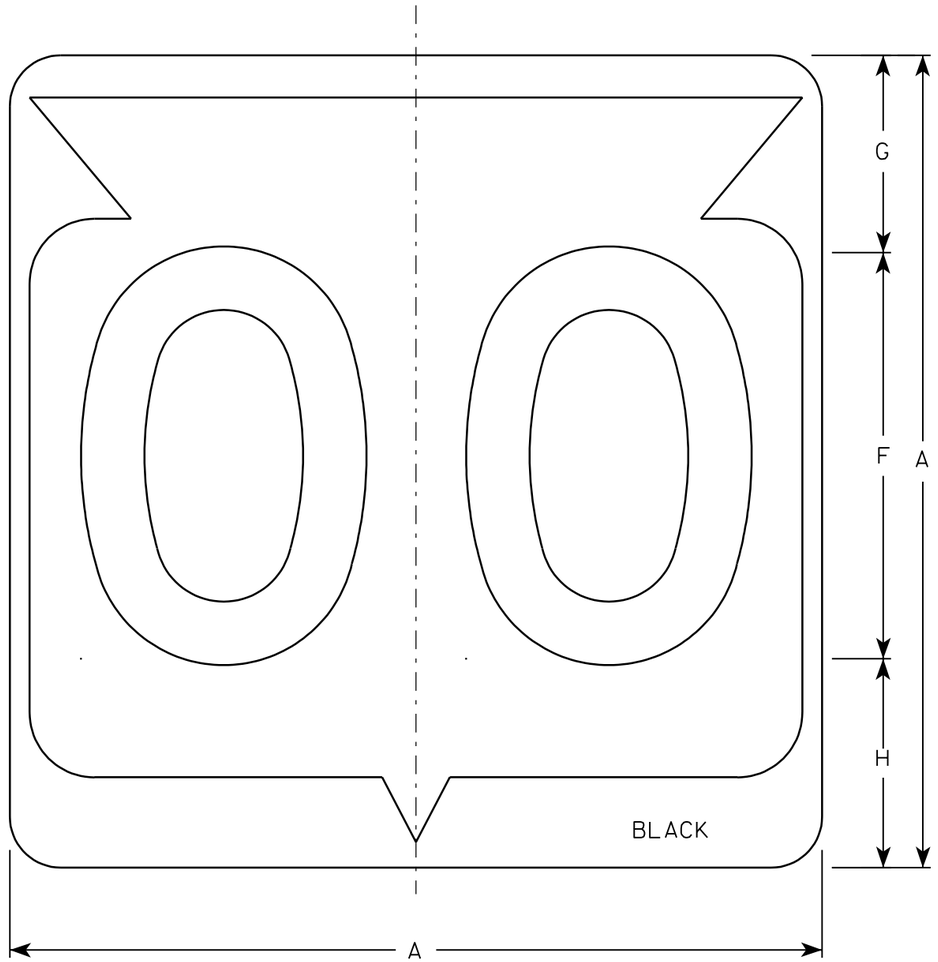
STANDARD SIGN
G20-2A

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

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

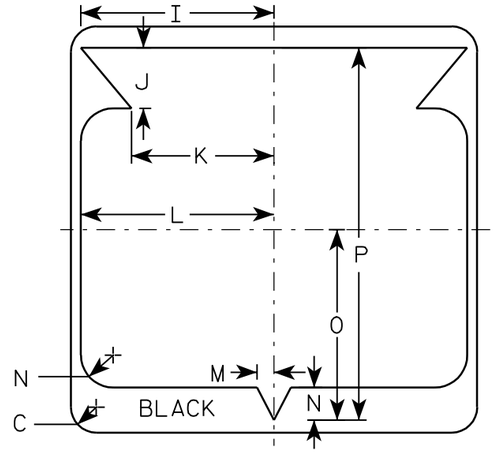
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 155	E



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

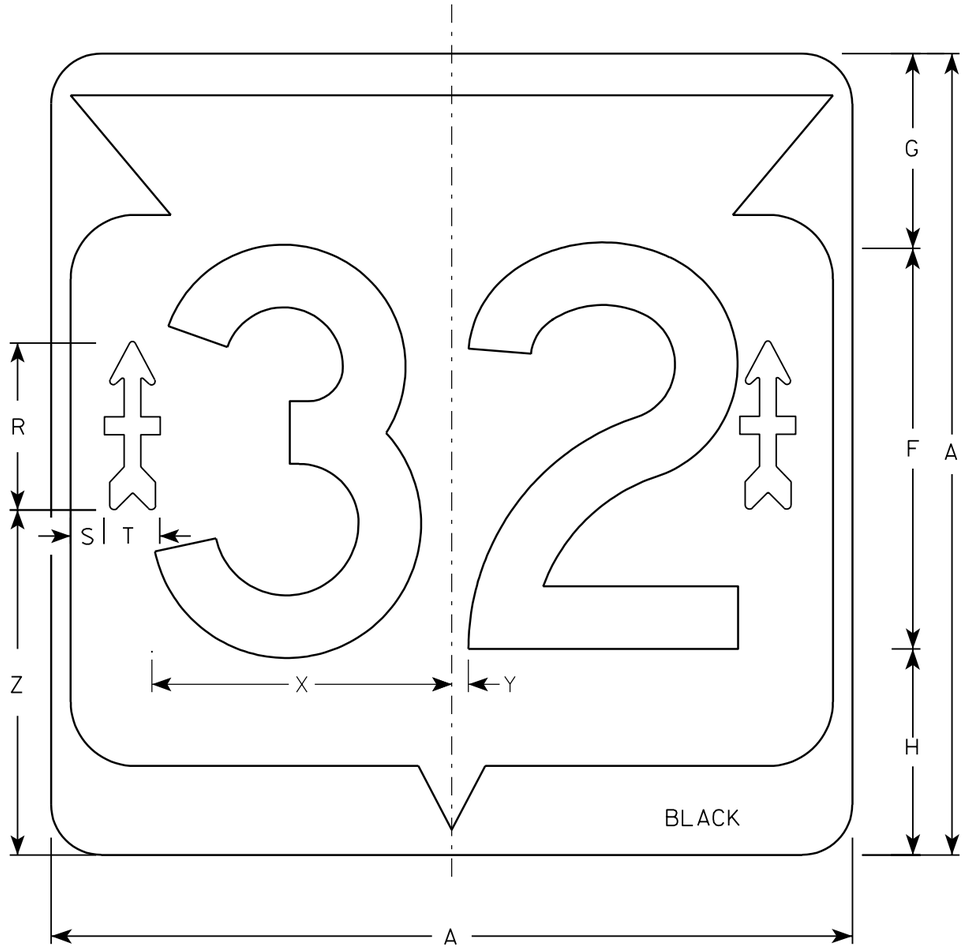
STATE ROUTE MARKER M1-6 FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Chester J Spang for State Traffic Engineer

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

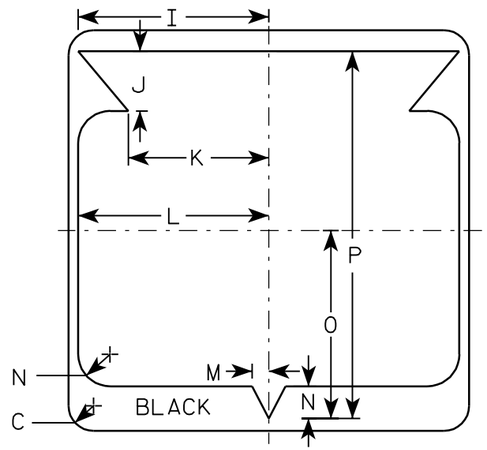
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 156	E



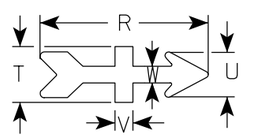
M1-6B

NOTES

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



32nd DIVISION ARROW
ACTUAL SIZE



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 ½			12	5 ½	6 ½	10 ¼	2 ½	8 ⅞	11 ½	1	1 ⅞	11 ¼	21 ⅞		5 ⅛	¾	1 ⅞	1 ½	⅝	⅝	9	½	10 ½	4.0	.36
3	36		2 ¼			18	8 ¾	9 ¼	15 ⅜	5 ⅜	12 ⅝	17 ⅛	1 ½	2 ⅞	16 ⅞	33		7 ½	1 ½	2 ½	2	⅞	¾	13 ½	¾	15 ½	9.0	.81
4	36		2 ¼			18	8 ¾	9 ¼	15 ⅜	5 ⅜	12 ⅝	17 ⅛	1 ½	2 ⅞	16 ⅞	33		7 ½	1 ½	2 ½	2	⅞	¾	13 ½	¾	15 ½	9.0	.81
5	36		2 ¼			18	8 ¾	9 ¼	15 ⅜	5 ⅜	12 ⅝	17 ⅛	1 ½	2 ⅞	16 ⅞	33		7 ½	1 ½	2 ½	2	⅞	¾	13 ½	¾	15 ½	9.0	.81

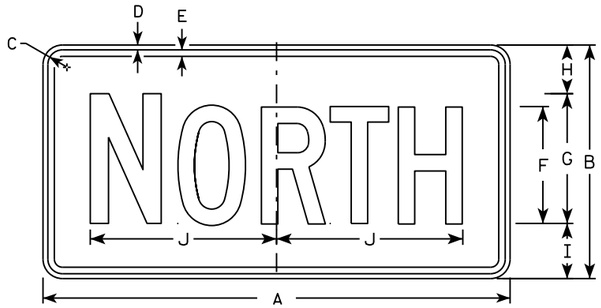
STATE ROUTE MARKER "32"
M1-6B FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

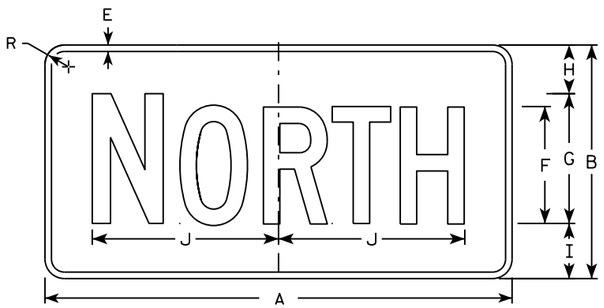
APPROVED Matthew R Rauch for State Traffic Engineer

DATE 12/5/05 PLATE NO. M1-6B.2

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 157 | E



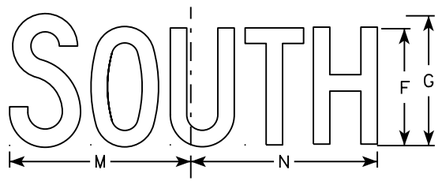
M3-1
MM3-1
MP3-1



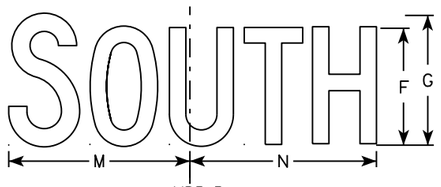
MB3-1
MK3-1
MN3-1

M3-2
MM3-2
MP3-2

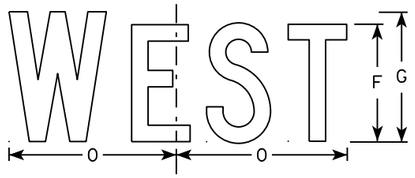
MB3-2
MK3-2
MN3-2



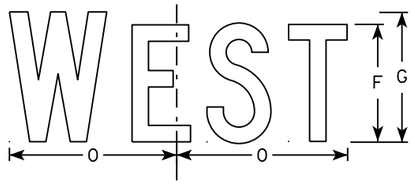
M3-3
MM3-3
MP3-3



MB3-3
MK3-3
MN3-3



M3-4
MM3-4
MP3-4



MB3-4
MK3-4
MN3-4

NOTES

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

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

STANDARD SIGNS
M3-1 thur M3-4
SERIES

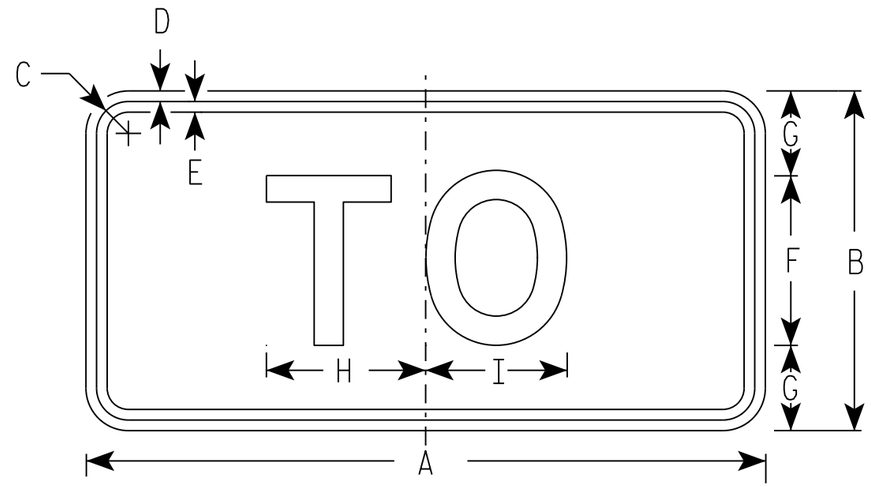
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew P Rauch for State Traffic Engineer

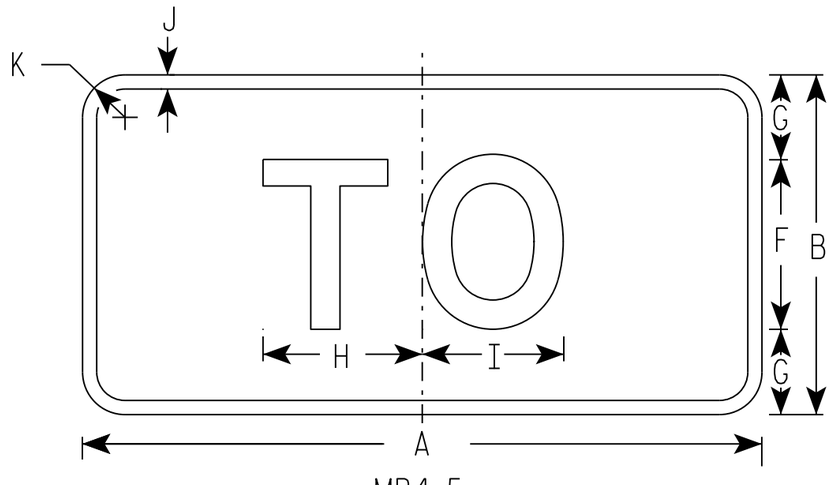
DATE 10/15/15 PLATE NO M3-1.14

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

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



M4-5
MM4-5
MP4-5



MB4-5
MK4-5
MN4-5

NOTES

1. Sign is Type II - Type H
2. Color:
   Background - See note 5
   Message - See note 5
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. M4-5 Background - White
   Message - Black

   MB4-5 Background - Blue
   Message - White

   MK4-5 Background - Green
   Message - White

   MM4-5 Background - White
   Message - Green

   MN4-5 Background - Brown
   Message - White

   MP4-5 Background - White
   Message - Blue

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	5 3/8	5 1/4	1/2	1 1/2																2.00
3	36	18	1 3/8	3/8	1/2	9	4 1/2	8 1/4	8 3/8	1/2	1 1/2																4.5
4	36	18	1 3/8	3/8	1/2	9	4 1/2	8 1/4	8 3/8	1/2	1 1/2																4.5
5	36	18	1 3/8	3/8	1/2	9	4 1/2	8 1/4	8 3/8	1/2	1 1/2																4.5

STANDARD SIGN
M4-5

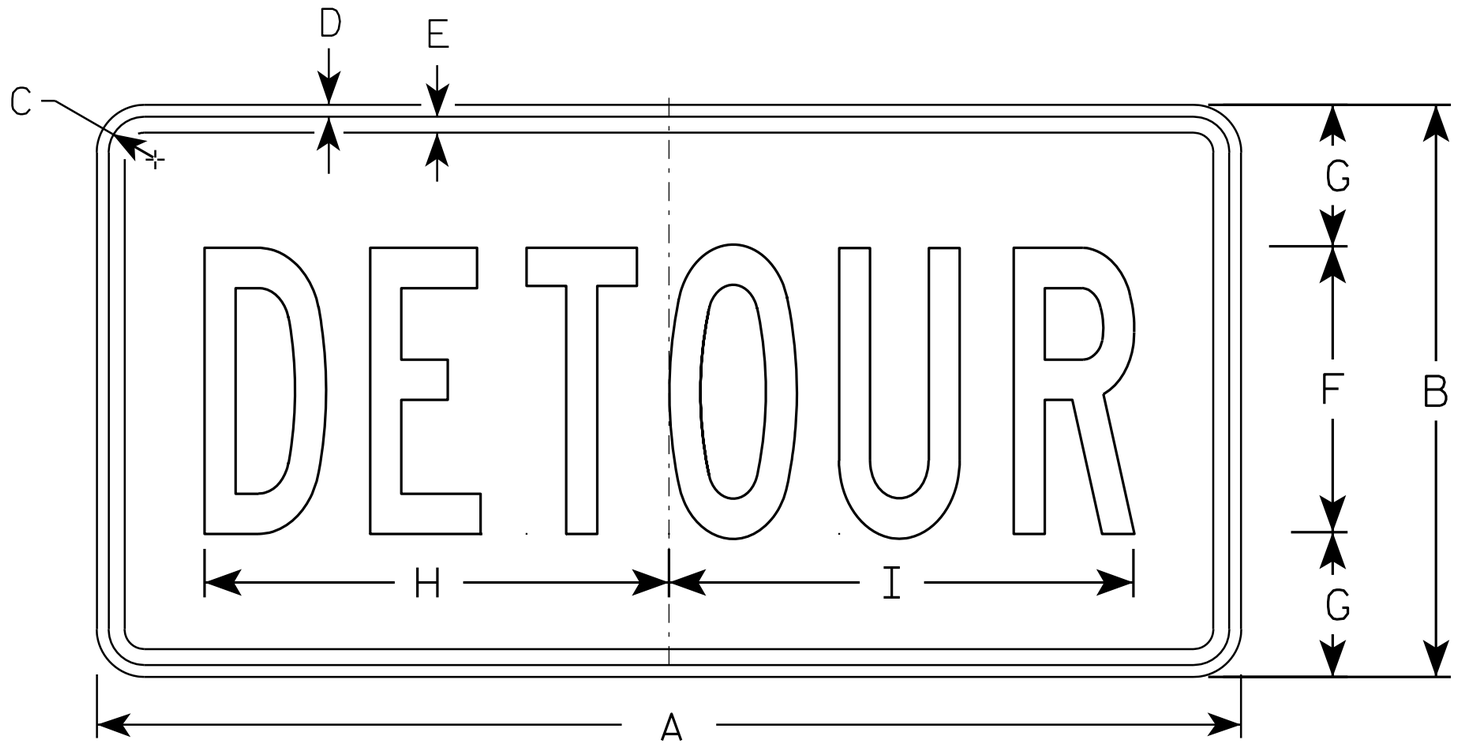
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 10/15/15 PLATE 159 M4-5.8

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\M45.DGN PLOT DATE : 01-DEC-2015 17:55 PLOT BY : $$ plotuser $$ PLOT NAME : PLOT SCALE : 5.351066:1.000000



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																											

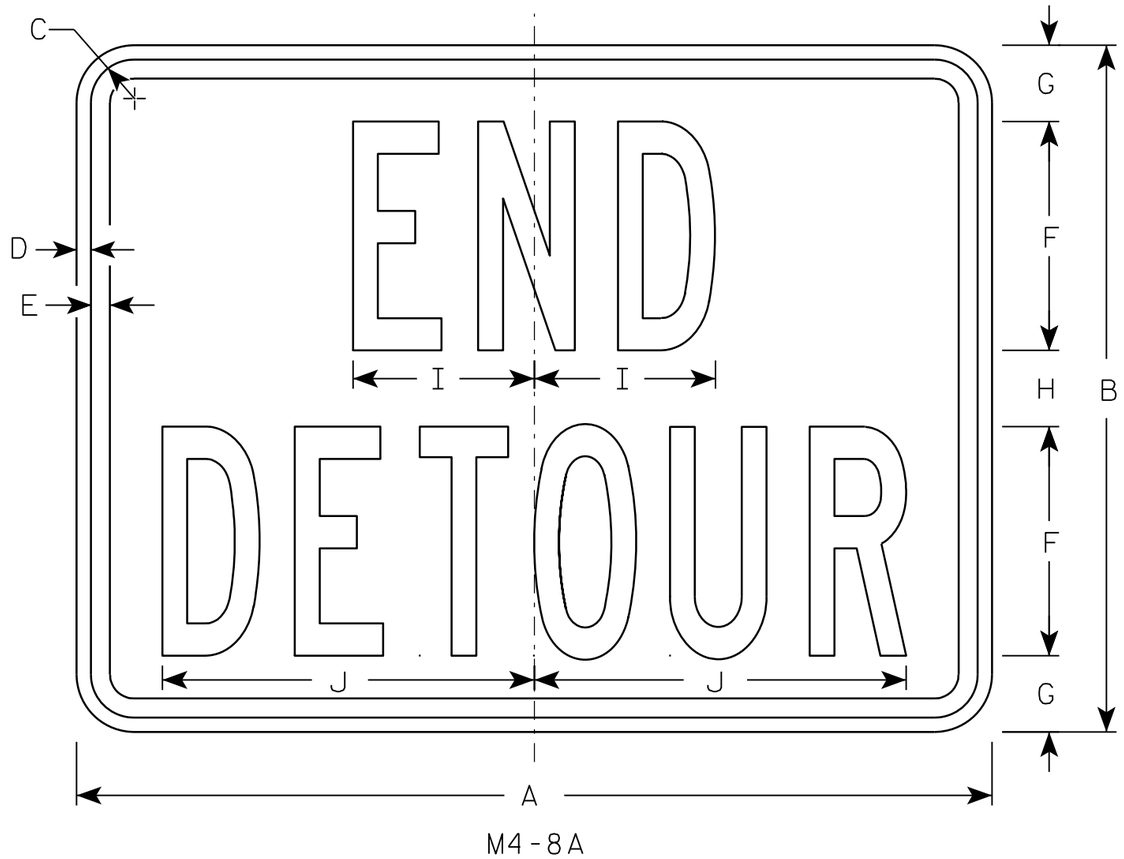
STANDARD SIGN
M4-8

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: 160	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																											

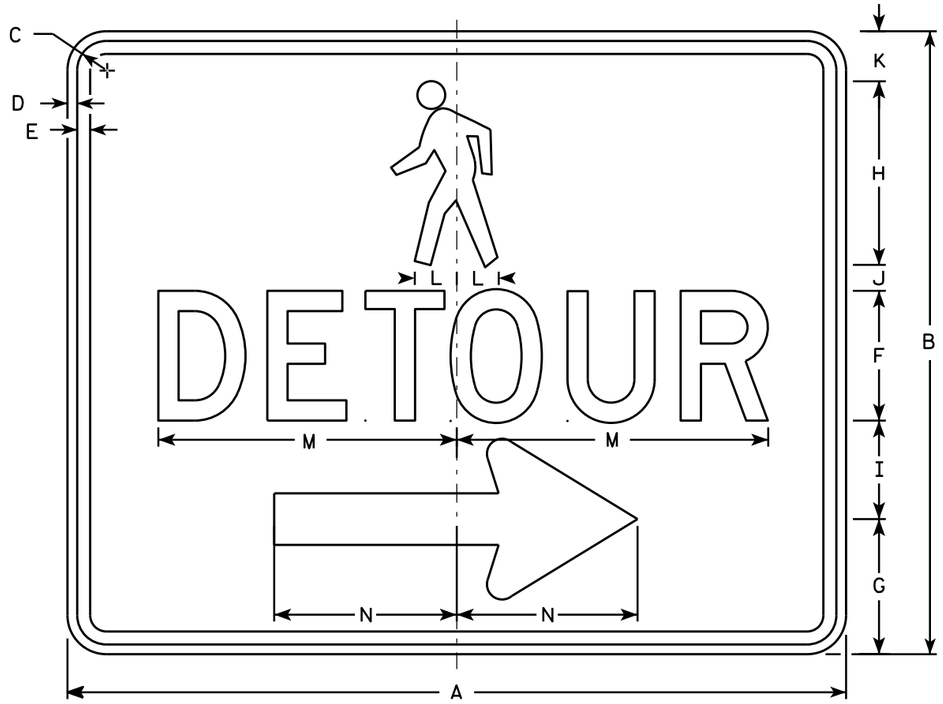
STANDARD SIGN
M4-8A

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

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

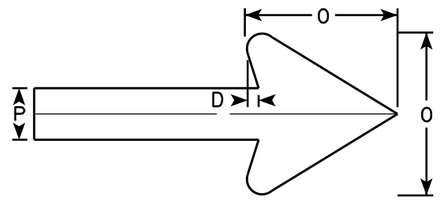
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 161	E



M4-9BR

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. M4-9BL is the same as M4-9BR 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	5 1/4	7 1/8	3 3/4	1	1 1/8	1 5/8	11 3/4	7	6	2											5.00
3																											
4																											
5																											

STANDARD SIGN
M4-9B L&R

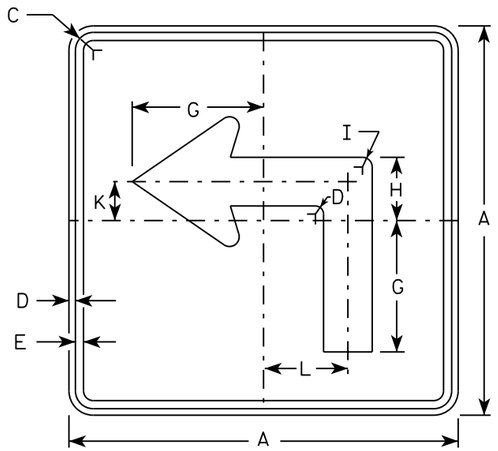
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

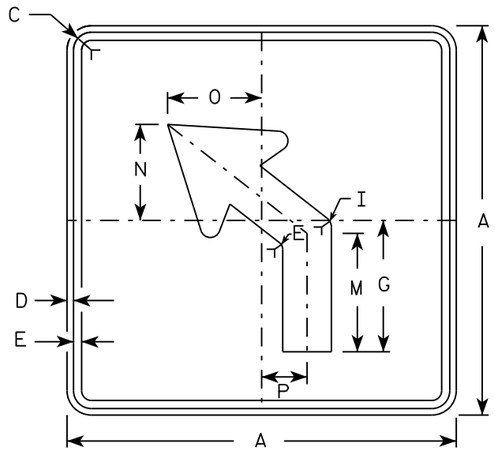
DATE 9/30/13 PLATE NO. M4-9B.1

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

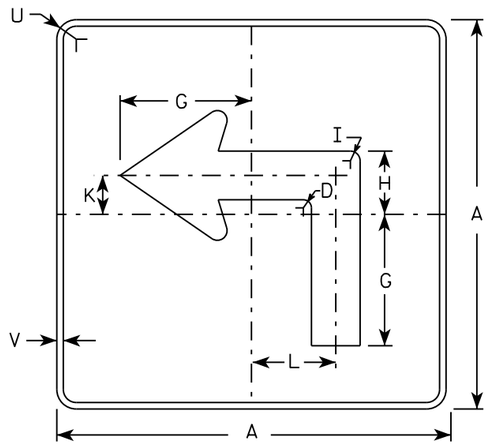
FILE NAME : C:\CAEfiles\Projects\tr_stdplate\M49B.DGN PLOT DATE : 01-OCT-2013 13:44 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 5.837526:1.000000 WISDOT/CADDS SHEET 42



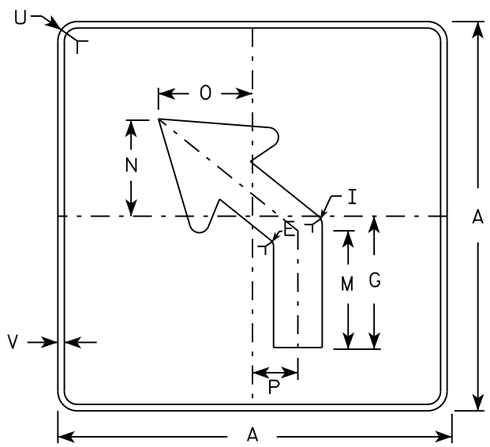
M5-1L
MM5-1L
MO5-1L
MP5-1L



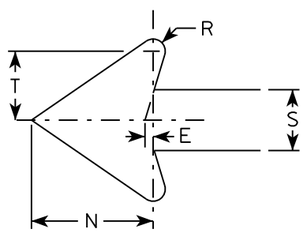
M5-2L
MM5-2L
MO5-2L
MP5-2L



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

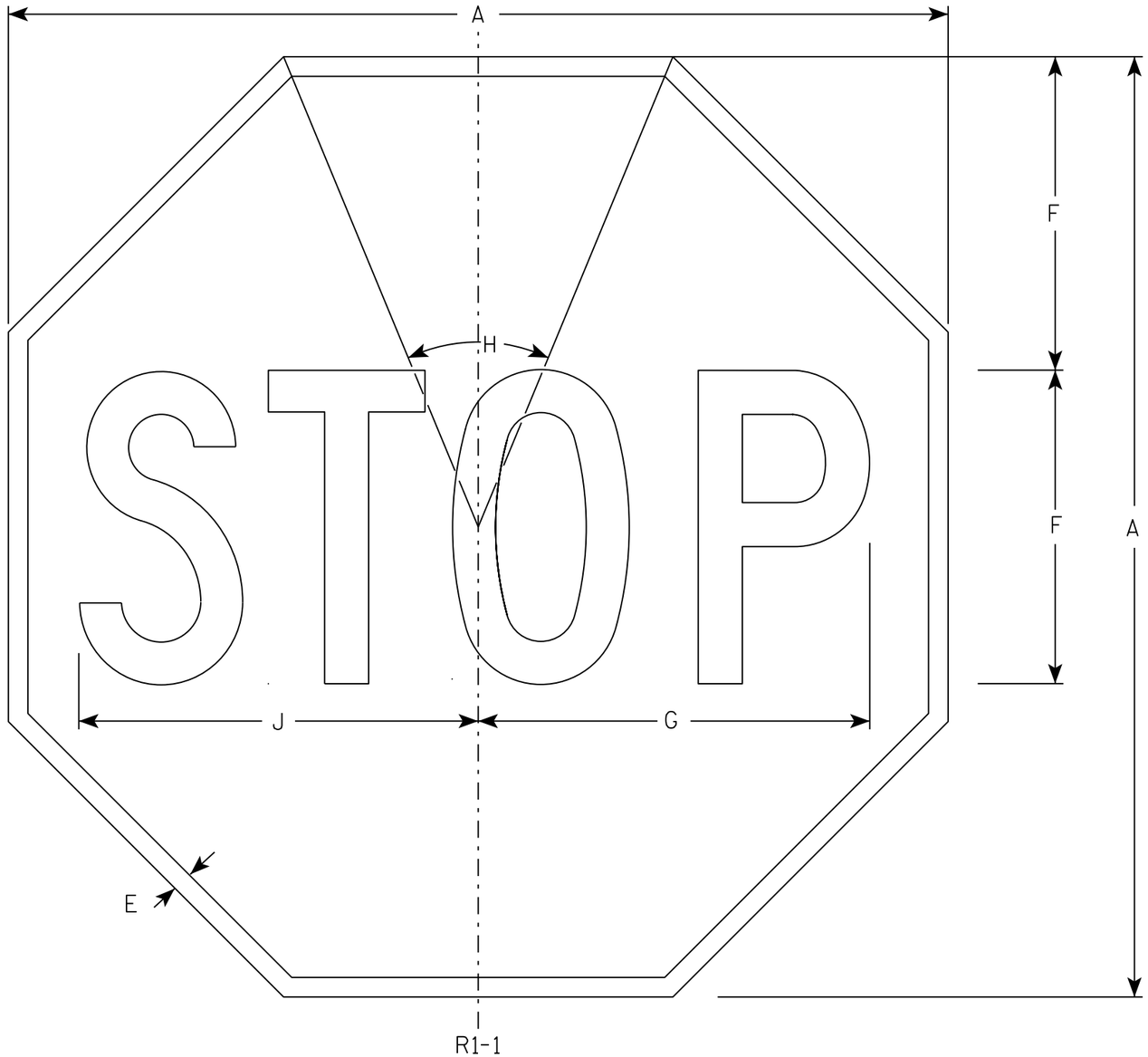
WISCONSIN DEPT OF TRANSPORTATION

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



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

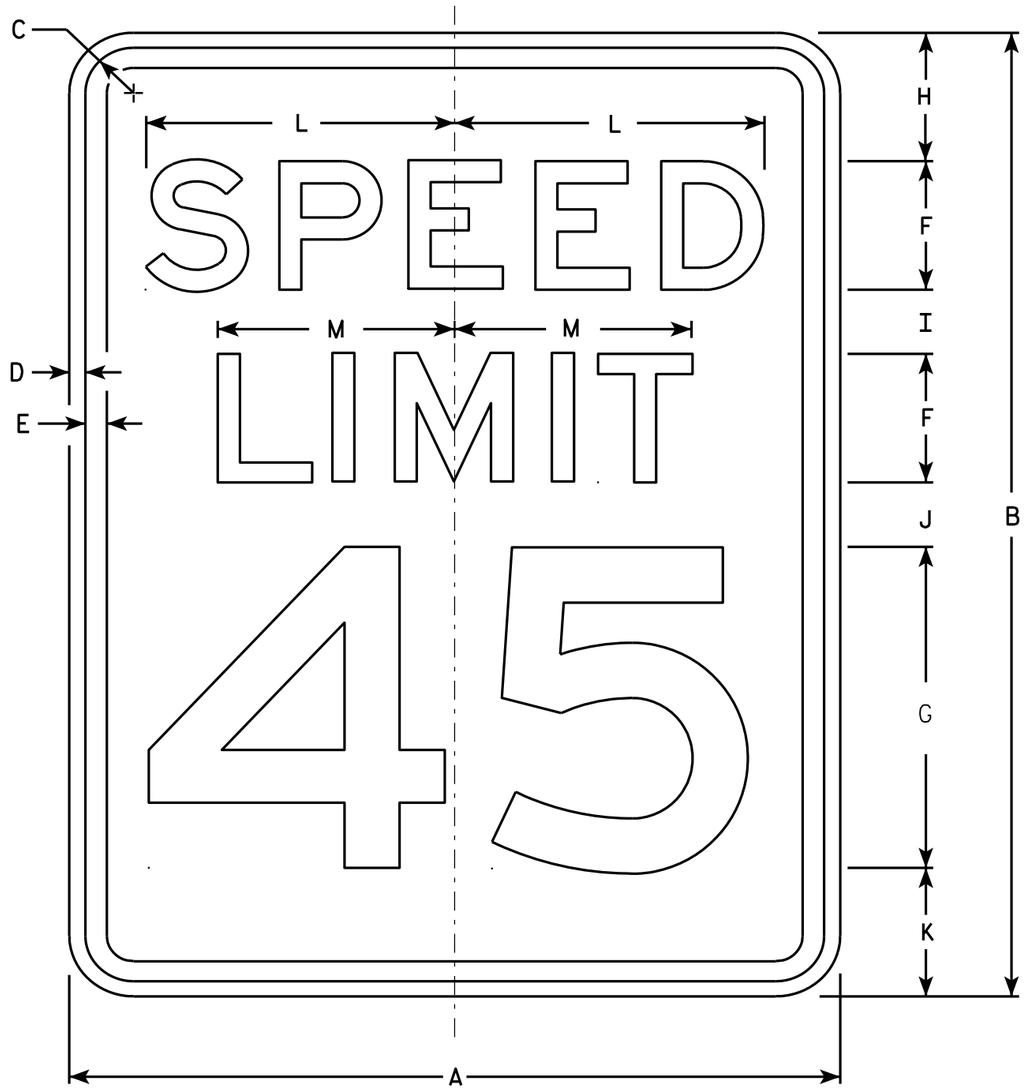
WISCONSIN DEPT OF TRANSPORTATION

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

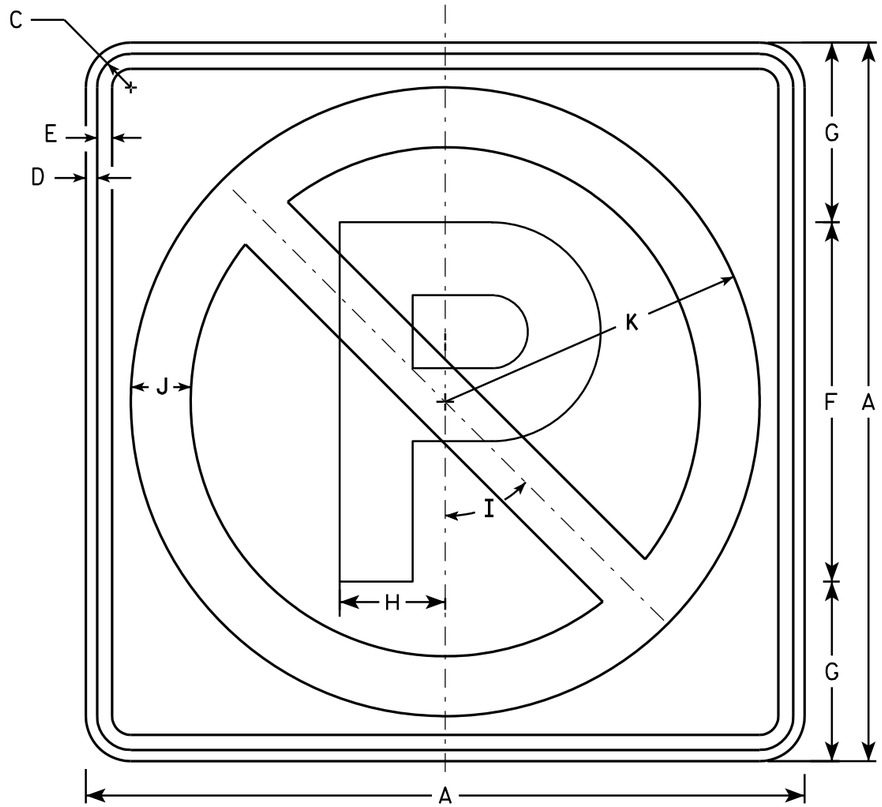
STANDARD SIGN
R2-1

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: 165 | E



R3-8A

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 & Letter P are non reflective black, the circle with diagonal bar is reflective red.

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		1 1/8	3/8	1/2	12	6	3 1/2	45°	2	10 1/2																4.0
2M	24		1 1/8	3/8	1/2	12	6	3 1/2	45°	2	10 1/2																4.0
3																											
4																											
5																											

STANDARD SIGN
R3-8A

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

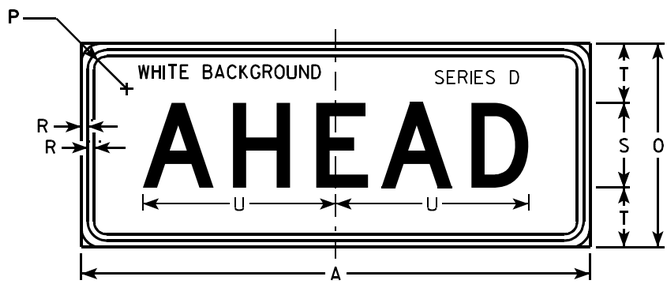
DATE 8/01/12 PLATE NO. R3-8A.1

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 166 | E

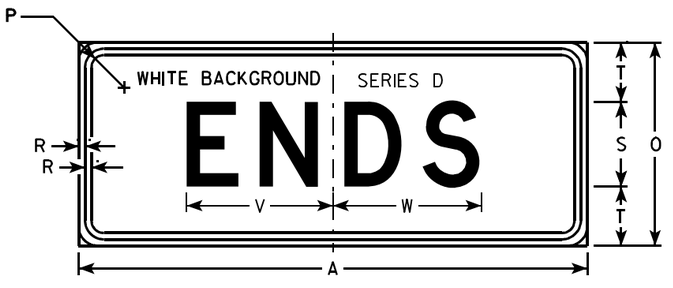
R3-17

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - AS SHOWN
   Message - BLACK
3. Message Series - C or as noted on the Signs.
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.



R3-17ap



R3-17bp

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	R3-17 Area sq. ft.	R3-17ap Area sq. ft.	R3-17bp Area sq. ft.
1																													
2S	30	24	1 1/8	3/8	1/2	2	4	4 1/8	7 7/8	6 3/8	9 1/2	2 5/8	7/8	13	12	1 1/8	3 3/8	3/8	5	3 1/2	11 3/8	8 5/8	8 3/4	2 3/8	15 5/8	8	5.0	2.5	2.5
2M	30	24	1 1/8	3/8	1/2	2	4	4 1/8	7 7/8	6 3/8	9 1/2	2 5/8	7/8	13	12	1 1/8	3 3/8	3/8	5	3 1/2	11 3/8	8 5/8	8 3/4	2 3/8	15 5/8	8	5.0	2.5	2.5
3																													
4																													
5																													

STANDARD SIGN
R3-17 & R3-17a&bp

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 4/12/2011 PLATE NO. R3-17.2

PROJECT NO:

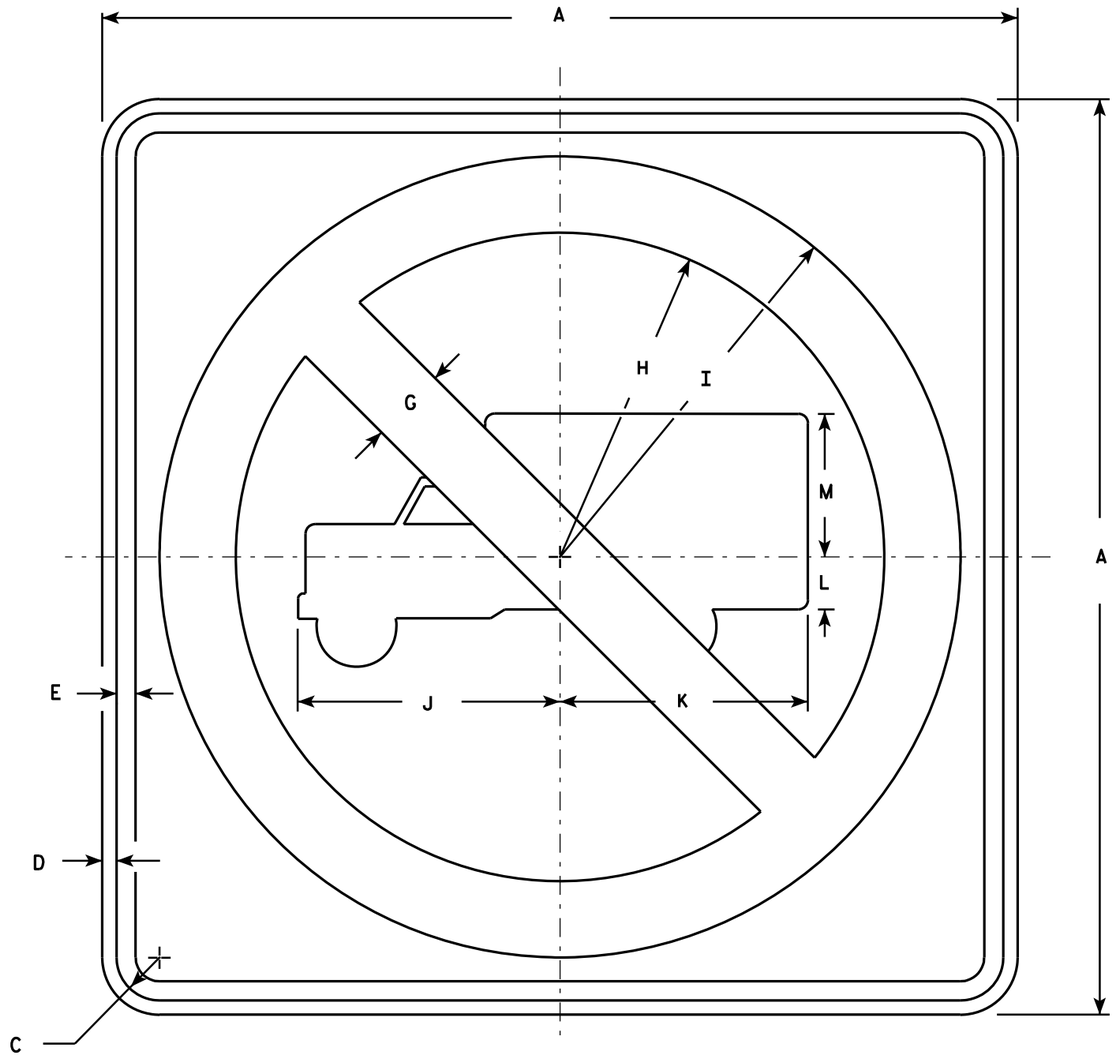
SHEET NO: 167 E

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\R317.DGN PLOT DATE : 02-APR-2013 14:09 PLOT BY : mscj9h

WISDOT/CADDS SHEET 42

7

7



R5-2

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. Circle & Diagonal - Reflective red.
   Truck Symbol & Border - Non-reflective black.

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		1 1/8	3/8	1/2		2	8 1/2	10 1/2	6 7/8	6 1/2	1 3/8	3 3/4														4.0
2M	24		1 1/8	3/8	1/2		2	8 1/2	10 1/2	6 7/8	6 1/2	1 3/8	3 3/4														4.0
3	30		1 3/8	1/2	5/8		2 1/2	10 5/8	13 1/8	8 1/2	8 1/8	1 5/8	4 3/4														6.25
4	36		1 5/8	5/8	3/4		3	12 3/4	15 3/4	10 1/4	9 3/4	2	5 3/4														9.0
5	48		2 1/4	3/4	1		4	17	21	13 5/8	13	2 5/8	7 5/8														16.0

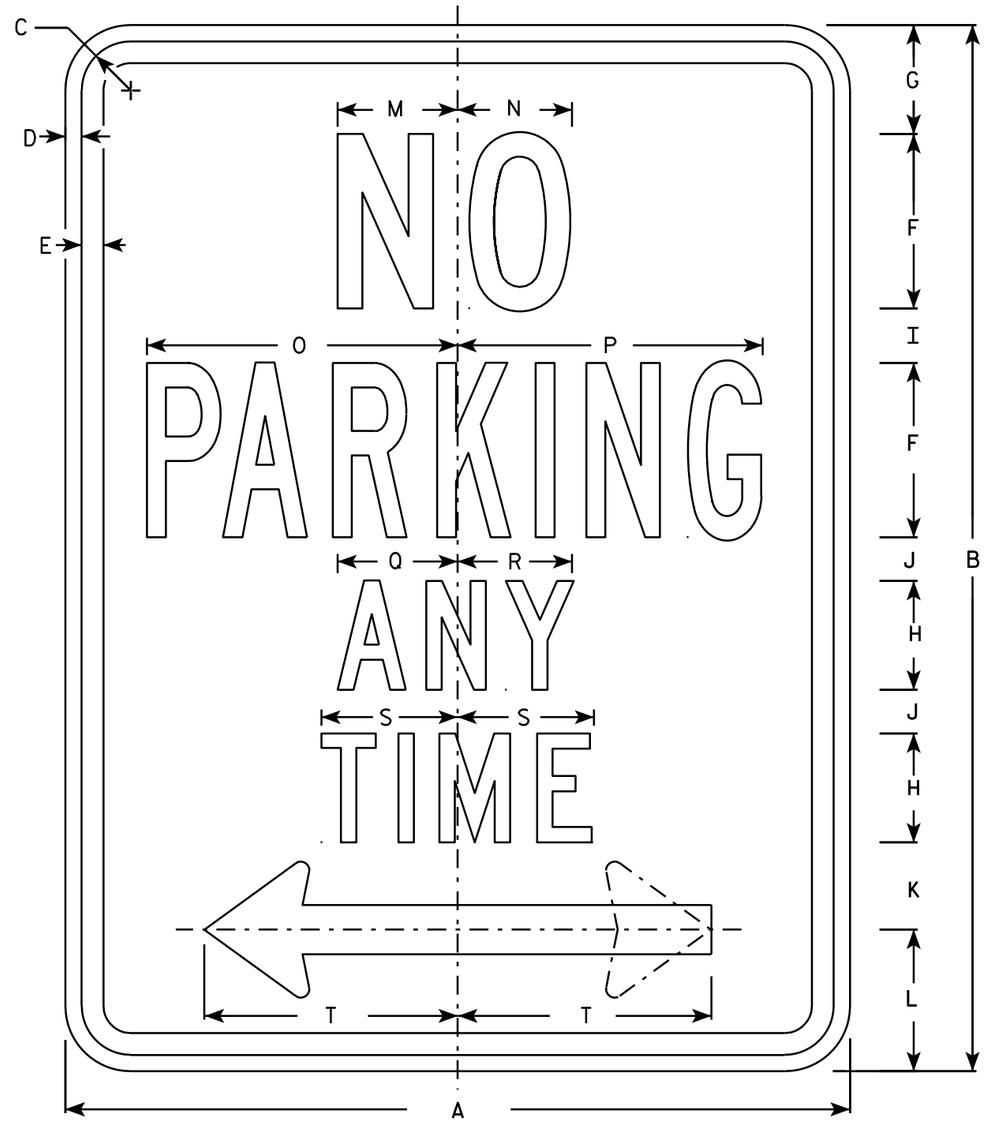
STANDARD SIGN
R5-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/29/2011 PLATE NO. R5-2.6

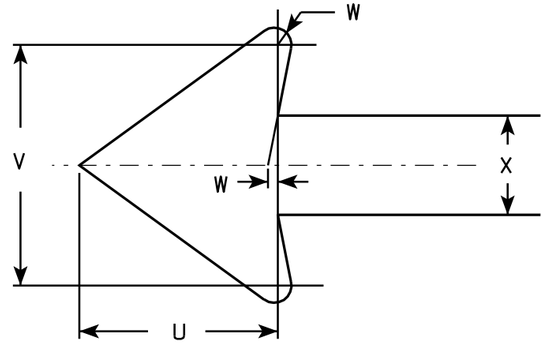
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 168 | E



R7-1

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Red
3. Message Series - See Note 5
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Lines 1, 3 and 4 are series C, line 2 is series B.
6. R7-1D (double arrow)
   R7-1L (left arrow)
   R7-1R (right arrow)



SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	12	18	1 1/8	3/8	3/8	3	1 7/8	2	7/8	5/8	1 1/2	2 1/2	2	2	4 7/8	4 7/8	2 1/4	2 1/8	2 1/2	3 7/8	1 1/2	1 3/4	1/8	3/4			1.5
2S	18	24	1 1/8	3/8	1/2	4	2 1/2	2 1/2	1 1/4	1	2	3 1/4	2 3/4	2 5/8	7 1/8	7	2 3/4	2 5/8	3 1/8	5 7/8	2 1/4	2 5/8	1/4	1 1/8			3.0
2M	24	30	1 1/8	3/8	1/2	5	3	3	2	1 1/4	2 1/2	4	3 1/4	3 3/8	9 1/4	9 1/4	3 1/4	3 1/4	3 3/4	7 3/4	3	3 1/2	1/4	1 1/2			5.0
3	24	30	1 1/8	3/8	1/2	5	3	3	2	1 1/4	2 1/2	4	3 1/4	3 3/8	9 1/4	9 1/4	3 1/4	3 1/4	3 3/4	7 3/4	3	3 1/2	1/4	1 1/2			5.0
4																											
5																											

STANDARD SIGN
R7-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

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

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 169	E

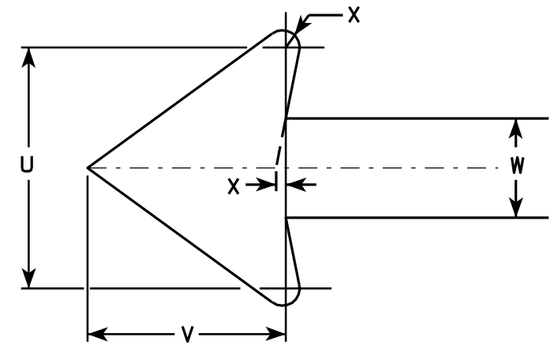
FILE NAME : C:\Users\PROJECTS\tr_stdplate\R71.DGN PLOT DATE : 31-MAR-2011 09:20 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 3.476110:1.000000

WISDOT/CADDS SHEET 42

R7-7

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 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. R7-7D (double arrow)
   R7-7R (right arrow)
   R7-7L (left arrow)
6. Lines 1, 3 and 4 are Series C.
   Line 2 is Series B.



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	2	1 7/8	7/8	5/8	1 1/2	2 1/2	2	2	4 7/8	4 7/8	2	2 3/4	2 5/8	3 7/8	1 3/4	1 1/2	3/4	1/8			1.50
2S	18	24	1 1/8	3/8	1/2	4	2 1/2	2 1/2	1 1/4	1	2	3 1/4	2 3/4	2 5/8	7 1/8	7	2 1/2	3 3/8	3 3/8	5 7/8	2 5/8	2 1/4	1 1/8	1/4			3.00
2M	24	30	1 1/8	3/8	1/2	5	3	3	2	1 1/4	2 1/2	4	3 1/4	3 3/8	9 1/4	9 1/4	3	4 1/8	4	7 3/4	3 1/2	3	1 1/2	1/4			5.00
3	24	30	1 1/8	3/8	1/2	5	3	3	2	1 1/4	2 1/2	4	3 1/4	3 3/8	9 1/4	9 1/4	3	4 1/8	4	7 3/4	3 1/2	3	1 1/2	1/4			5.00
4																											
5																											

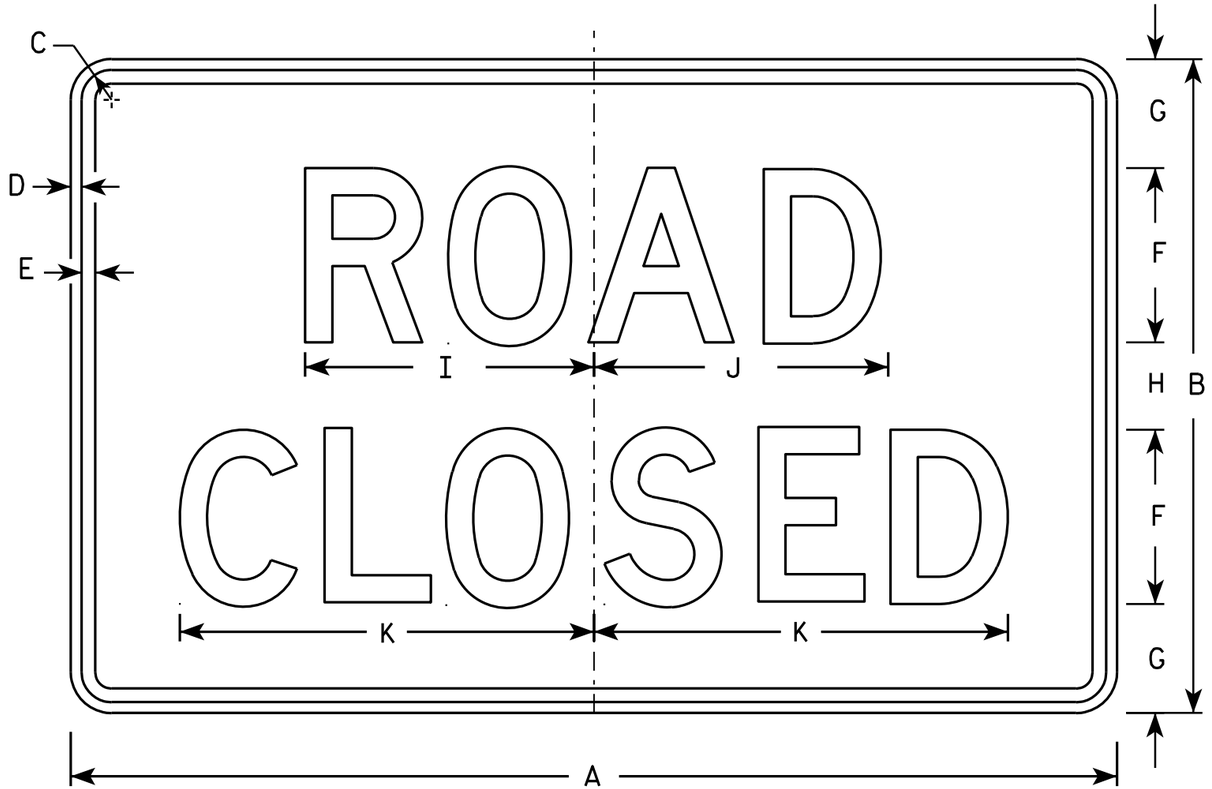
STANDARD SIGN
R7-7

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/31/2011 PLATE NO. R7-7.8

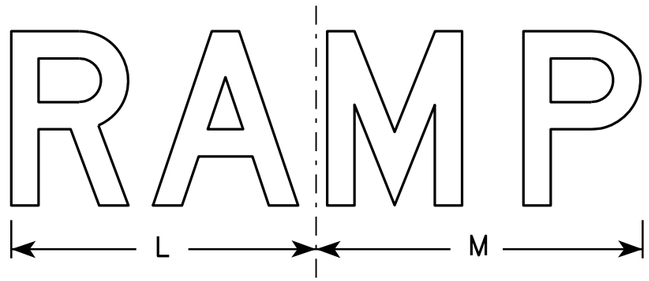
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 170 | E



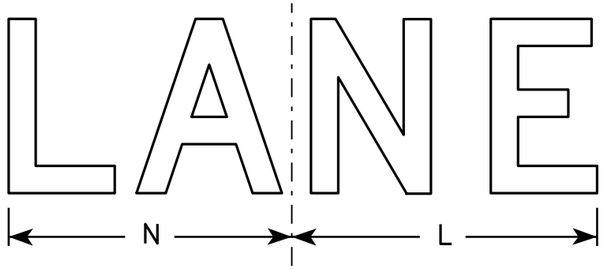
R11-2

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 - 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. Modify the message as required.



R11-2R



R11-2L

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	8	5	4	13 1/4	13 1/2	19	14	15	13													10.0
2M	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13													10.0
3	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13													10.0
4	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13													10.0
5	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13													10.0

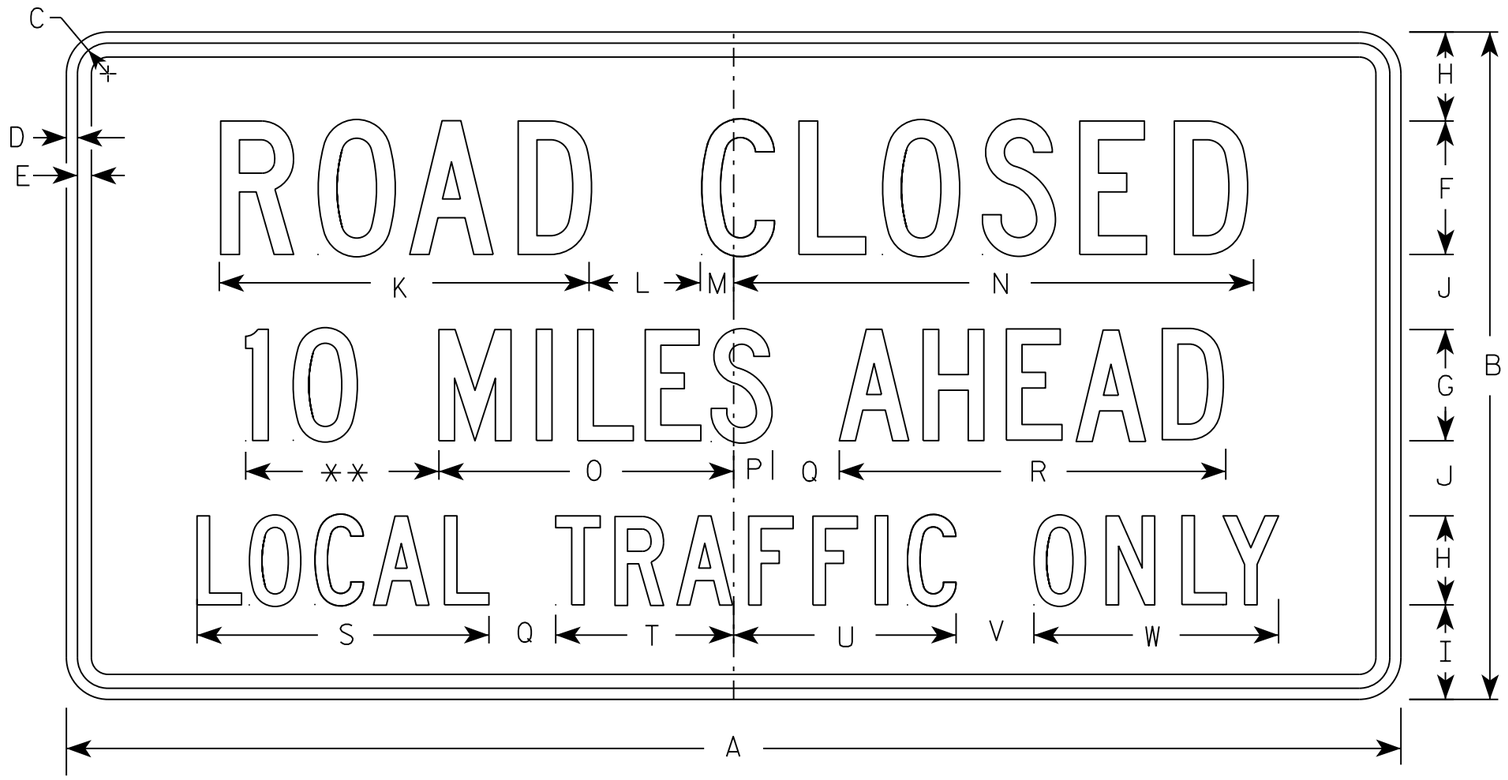
STANDARD SIGN
R11-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 4/1/11 PLATE NO. R11-2.10

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 171	E



R11-3

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.

** 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				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				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				12.5
3																											
4																											
5																											

STANDARD SIGN
R11-3

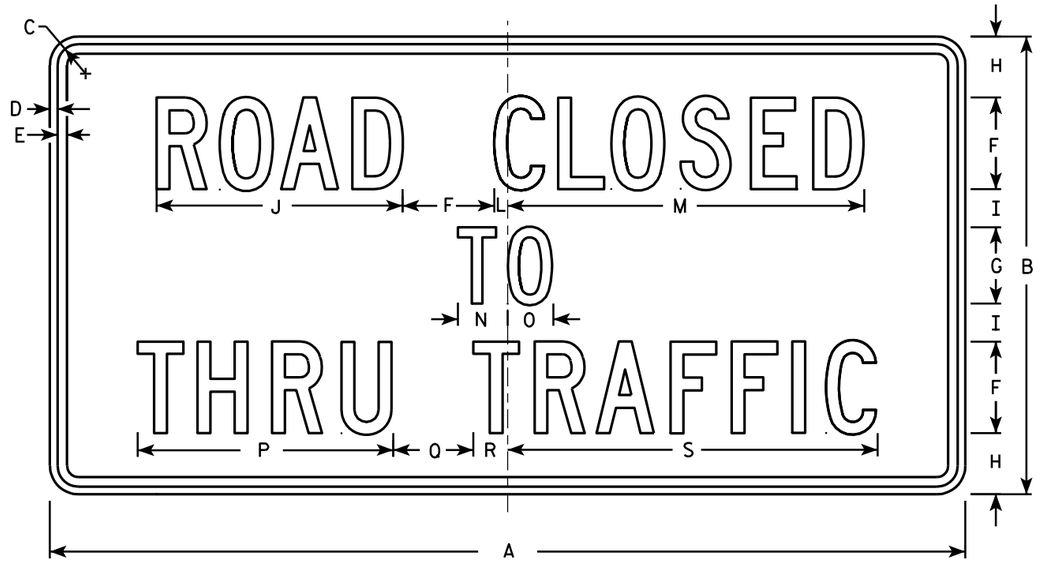
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 7/28/16 PLATE NO. R11-3.7

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

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\R113.DGN PLOT DATE : 28-JUL-2016 16:25 PLOT BY : $$ plotuser $$ PLOT NAME : PLOT SCALE : 6.810445:1.000000



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																											

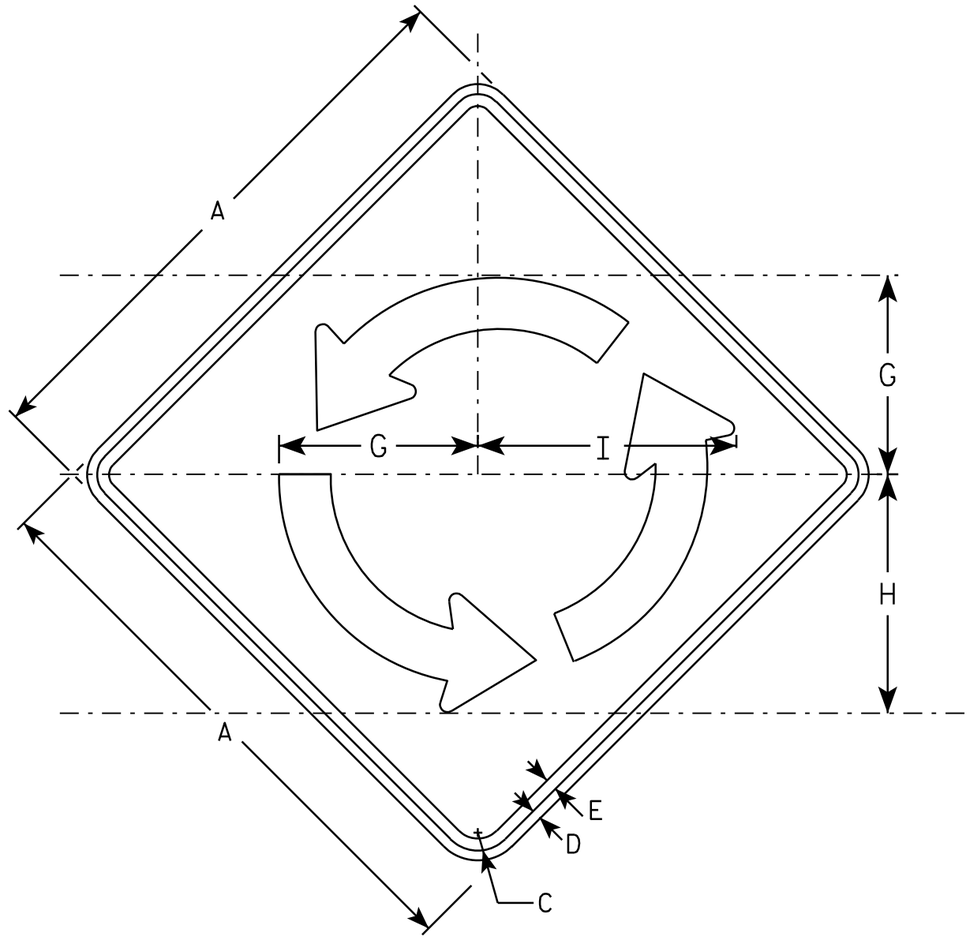
STANDARD SIGN
R11 - 4

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch for State Traffic Engineer

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

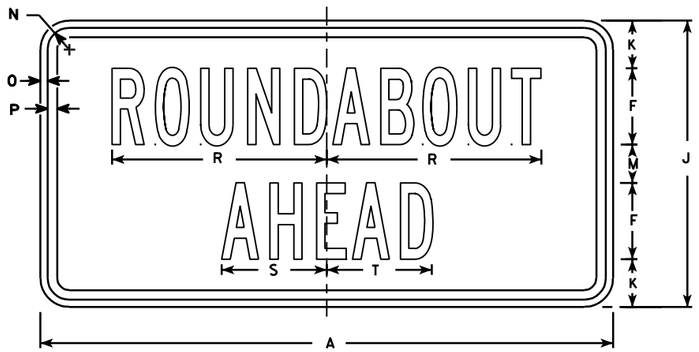
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 173 | E



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

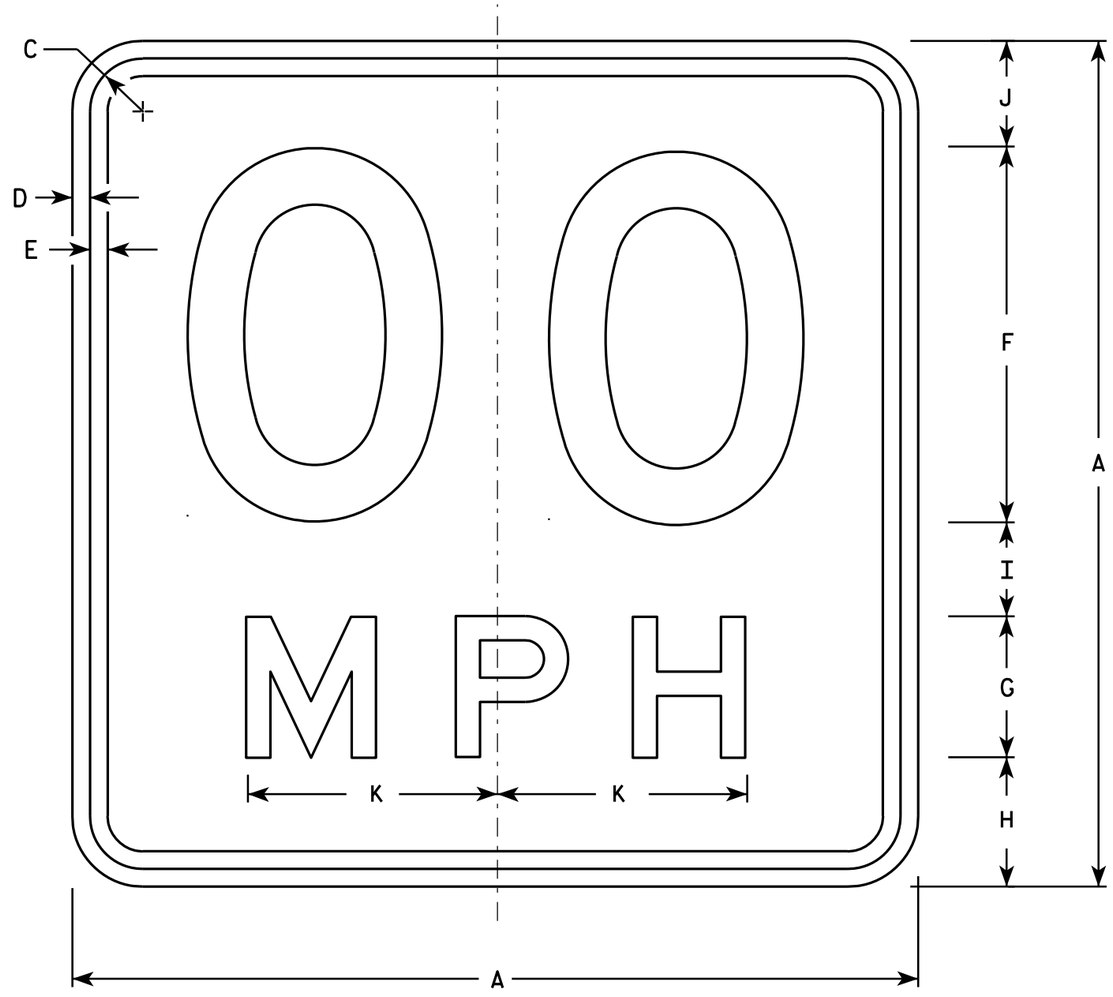
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 6/29/12 PLATE NO. W2-6.5

PROJECT NO:

SHEET NO: 174 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

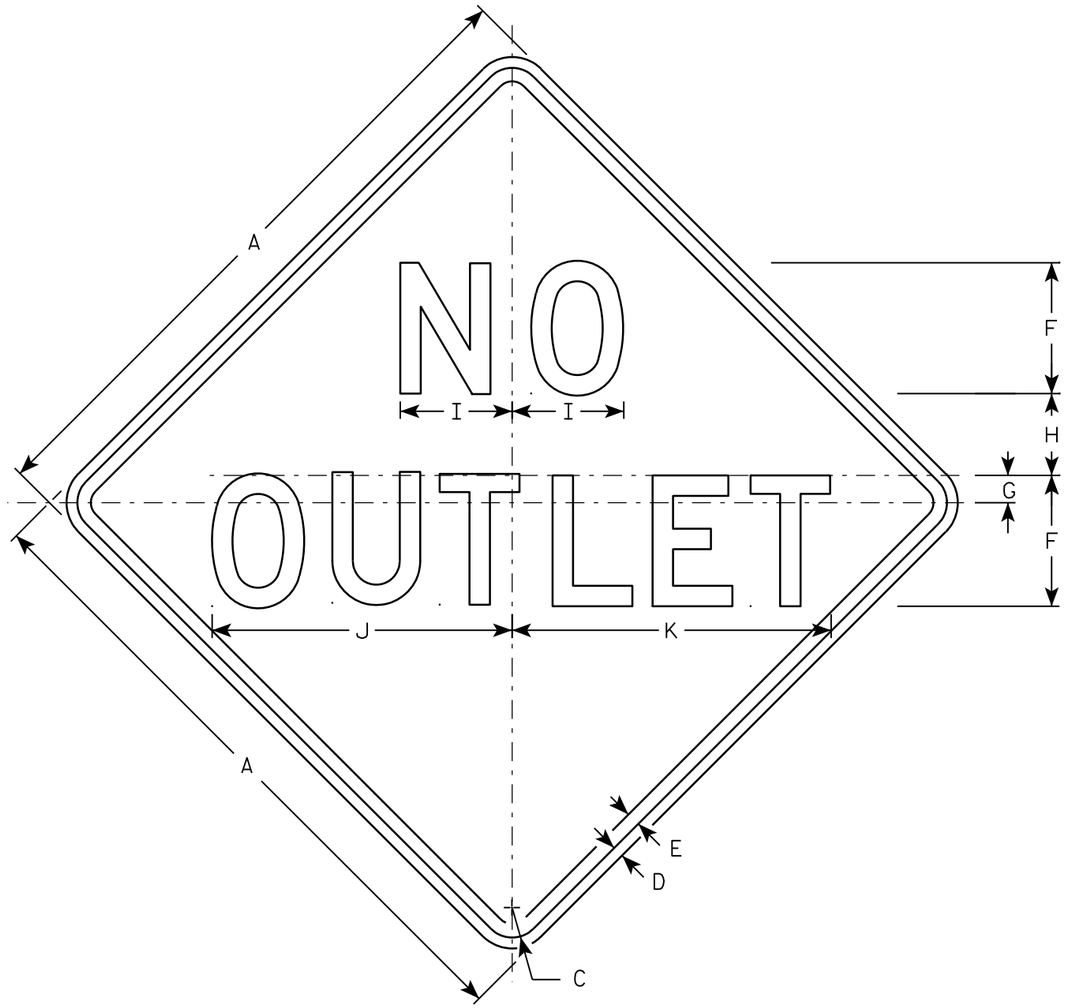
STANDARD SIGN
W13-1

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: 175 | E



W14-2

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. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	24		1 1/8	3/8	1/2	5	1	2 3/4	4 1/8	11 3/4	12 3/8																4.0
2S	30		1 3/8	1/2	5/8	6	1 1/4	3 3/4	5 1/8	13 3/4	14 5/8																6.25
2M	30		1 3/8	1/2	5/8	6	1 1/4	3 3/4	5 1/8	13 3/4	14 5/8																6.25
3	36		1 5/8	5/8	3/4	7	1 3/8	4 5/8	6	16 1/8	17 1/8																9.0
4																											
5																											

STANDARD SIGN
W14-2

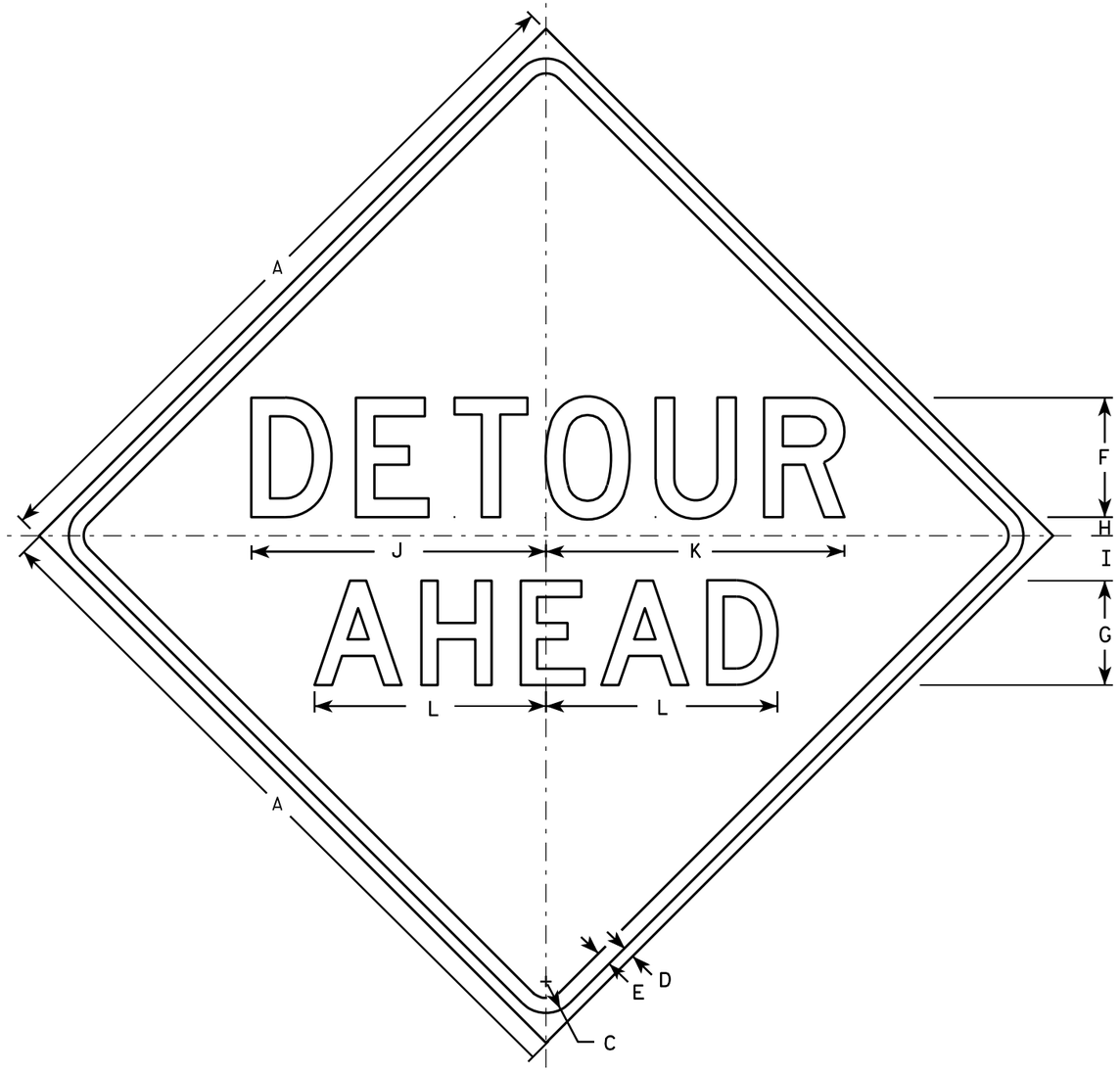
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

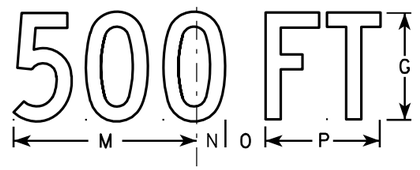
DATE 3/13/13 PLATE NO. W14-2.3

PROJECT NO:

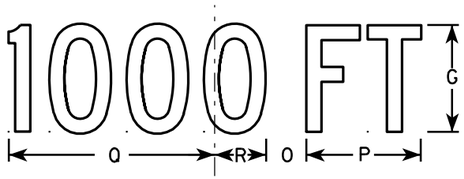
SHEET NO: 176 E



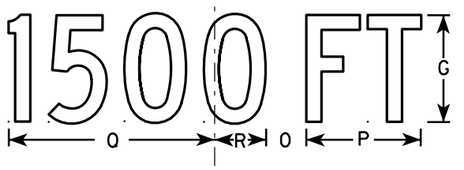
W20-2A



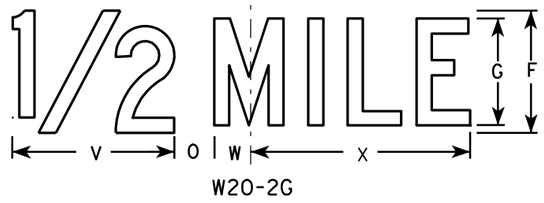
W20-2D



W20-2C



W20-2B



W20-2G

W20-2F

NOTES

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

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

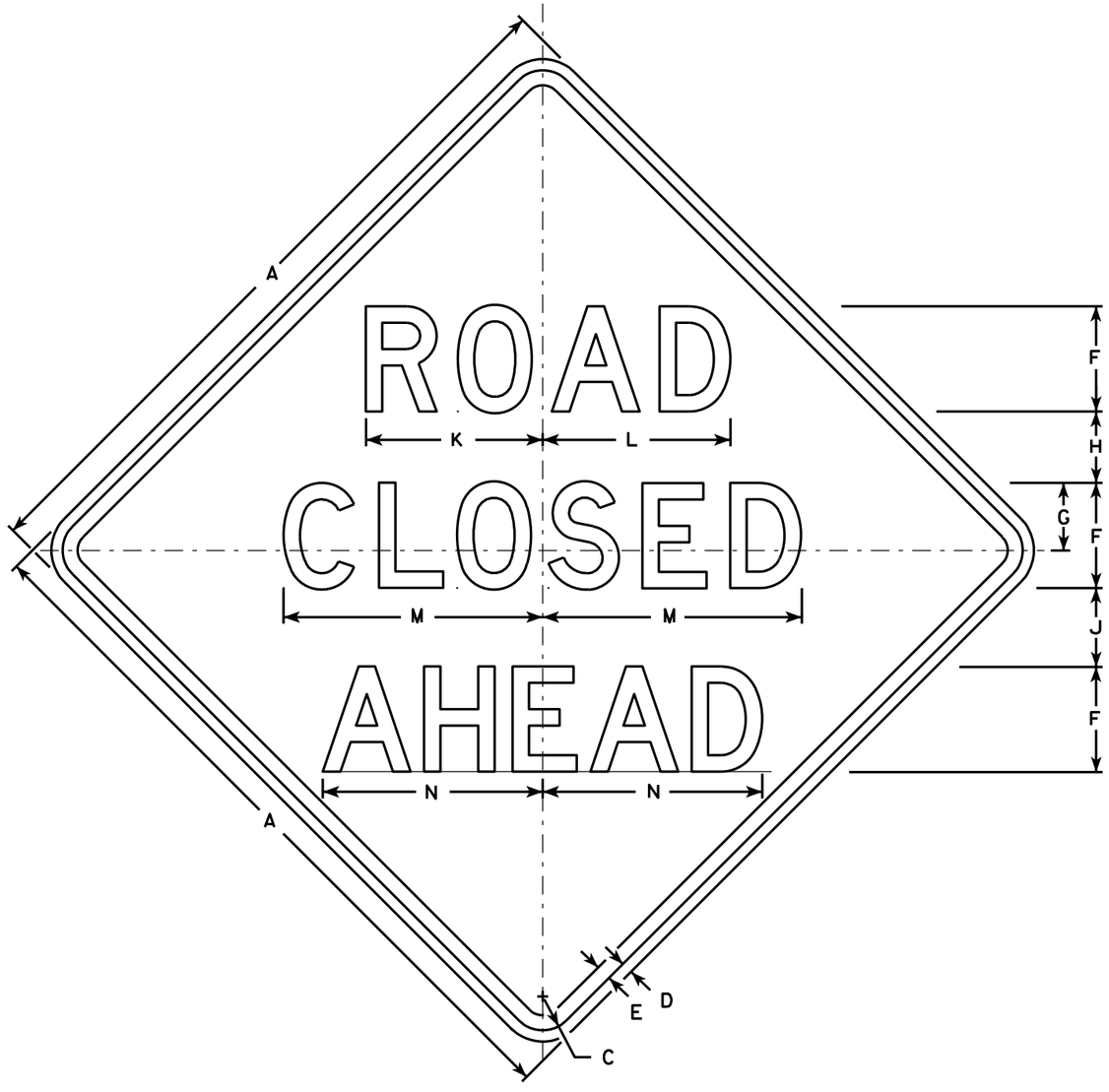
STANDARD SIGN
W20-2A,B,C,D,F & G

WISCONSIN DEPT OF TRANSPORTATION

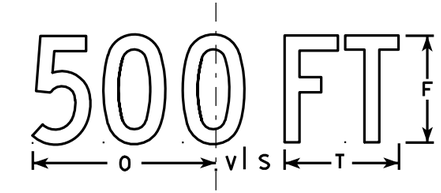
APPROVED Matthew R Rauch
for State Traffic Engineer

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

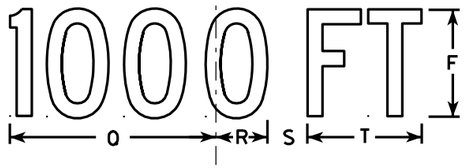
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 177 | E



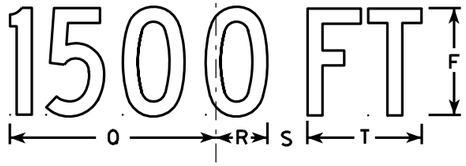
W20-3A



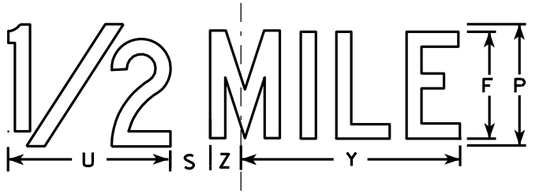
W20-3D



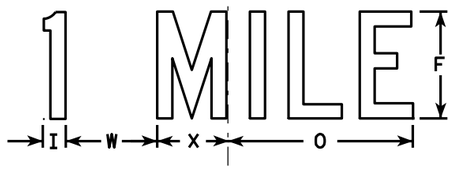
W20-3C



W20-3B



W20-3G



W20-3F

NOTES

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

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		1 5/8	5/8	3/4	5	3 3/8	3 1/2	1 1/8	4	8 3/8	8 7/8	12 1/2	11	9	6	10 1/8	2 1/2	1 7/8	5 5/8	8	1 3/8	4 1/2	3 1/2	10 3/4	1 3/4	9.0
2S	48		2 1/4	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0
2M	48		2 1/4	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0
3	48		2 1/4	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0
4	48		2 1/4	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0
5	48		2 1/4	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0

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

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer
DATE 3/18/11 PLATE NO. W20-3.7

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 178 | E

STATION	Distance	AREA (SF)			Incremental Vol (CY) (Unadjusted)			Cumulative Vol (CY)		Mass Ordinate
		Cut	Salvaged/Unusable Pavement Material	Fill	Cut	Salvaged/Unusable Pavement Material	Fill	Cut 1.00	Expanded Fill 1.20	
					Note 1	Note 2	Note 3	Note 1		Note 8
98+50	0.00	126.95	50.00	0.00	0.00	0	0.00	0	0.00	0.00
98+75	25.00	129.64	50.00	1.36	118.79	46	0.63	119	0.76	71.74
99+00	25.00	131.11	50.00	0.39	120.72	46	0.81	240	1.73	145.19
99+25	25.00	130.68	50.00	0.24	121.20	46	0.29	361	2.08	219.74
99+55	30.00	138.59	50.00	0.41	149.59	56	0.36	510	2.51	313.35
99+75	20.00	132.44	50.00	0.74	100.38	37	0.43	611	3.02	376.18
100+00	25.00	157.55	50.00	0.87	134.25	46	0.75	745	3.92	463.24
100+25	25.00	237.88	50.00	0.00	183.07	46	0.40	928	4.40	599.53
100+50	25.00	263.56	50.00	0.94	232.15	46	0.44	1,160	4.92	784.86
100+75	25.00	129.45	50.00	0.95	181.95	46	0.88	1,342	5.97	919.47
101+00	25.00	131.93	50.00	3.09	121.01	46	1.87	1,463	8.22	991.94
101+25	25.00	134.03	50.00	2.44	123.13	46	2.56	1,586	11.29	1065.70
101+37	12.00	133.89	50.00	4.25	59.54	22	1.49	1,646	13.07	1101.23
101+50	13.00	122.95	50.00	5.20	61.83	24	2.28	1,708	15.80	1136.26
101+75	25.00	123.77	50.00	2.62	114.22	46	3.62	1,822	20.15	1199.84
102+00	25.00	119.95	50.00	4.65	112.83	46	3.37	1,935	24.19	1262.34
102+25	25.00	114.01	50.00	6.55	108.31	46	5.19	2,043	30.41	1318.13
102+40	15.00	122.96	50.00	2.75	65.83	28	2.58	2,109	33.51	1353.08
102+50	10.00	123.98	50.00	2.35	45.73	19	0.94	2,155	34.64	1379.16
102+75	25.00	114.35	50.00	4.85	110.34	46	3.33	2,265	38.64	1439.20
103+00	25.00	114.03	50.00	3.91	105.73	46	4.06	2,371	43.51	1493.77
103+50	50.00	233.19	50.00	0.00	321.50	93	3.62	2,692	47.85	1718.33
104+00	50.00	112.18	50.00	4.91	319.79	93	4.55	3,012	53.31	1940.07
104+25	25.00	110.27	50.00	6.29	102.99	46	5.19	3,115	59.53	1990.54
104+50	25.00	111.42	50.00	6.49	102.63	46	5.92	3,218	66.63	2039.77
104+61	11.00	119.91	50.00	2.45	47.12	20	1.82	3,265	68.82	2064.34
104+89	28.00	128.16	50.00	1.72	128.63	52	2.16	3,393	71.41	2138.52
105+02	13.00	129.9	50.00	1.81	62.13	24	0.85	3,455	72.43	2175.56
105+30	28.00	142.96	50.00	0.00	141.48	52	0.94	3,597	73.56	2264.06
105+41	11.00	136.7	50.00	0.35	56.97	20	0.07	3,654	73.64	2300.57
105+75	34.00	131.4	50.00	1.72	168.80	63	1.30	3,823	75.21	2404.85
106+00	25.00	138.3	50.00	0.56	124.86	46	1.06	3,948	76.47	2482.15
106+25	25.00	140.63	50.00	0.35	129.13	46	0.42	4,077	76.98	2564.48
106+50	25.00	232.17	50.00	0.00	172.59	46	0.16	4,249	77.17	2690.58
106+75	25.00	244.4	50.00	0.00	220.63	46	0.00	4,470	77.17	2864.92
107+00	25.00	270.75	50.00	0.00	238.50	46	0.00	4,708	77.17	3057.12
107+25	25.00	154.22	50.00	0.00	196.75	46	0.00	4,905	77.17	3207.57
107+50	25.00	150.59	50.00	0.15	141.12	46	0.07	5,046	77.26	3302.30
107+75	25.00	153.35	50.00	0.00	140.71	46	0.07	5,187	77.34	3396.64
108+00	25.00	153.69	50.00	0.00	142.15	46	0.00	5,329	77.34	3492.49
108+25	25.00	147.38	50.00	0.08	139.38	46	0.04	5,468	77.38	3585.53
108+50	25.00	142.68	50.00	0.72	134.29	46	0.37	5,603	77.83	3673.08
108+68	18.00	147.86	50.00	0.00	96.85	33	0.24	5,700	78.12	3736.30
109+00	32.00	135.26	50.00	1.56	167.77	59	0.92	5,867	79.23	3843.71
109+01	1.00	134.82	50.00	1.64	5.00	2	0.06	5,872	79.30	3846.79
109+25	24.00	129.68	50.00	3.37	117.56	44	2.23	5,990	81.97	3917.23
109+50	25.00	125.71	50.00	5.72	118.24	46	4.21	6,108	87.02	3984.12
110+00	50.00	228.74	50.00	0.00	328.19	93	5.30	6,436	93.37	4213.36
110+50	50.00	132.83	50.00	2.31	334.79	93	2.14	6,771	95.94	4452.99
110+75	25.00	146.19	50.00	0.13	129.18	46	1.13	6,900	97.30	4534.52

CONTINUED ON NEXT PAGE

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9

PROJECT NO: 4085-42-71 | HWY: WIS 32 (8TH STREET) | COUNTY: BROWN | EARTHWORK | SHEET E

FILE NAME : P:\90s\93\00093265\CADD\SheetsPlan\Earthwork Border.dgn PLOT DATE : 3/31/2016 PLOT BY : jdolens PLOT NAME : PLOT SCALE : 1:200

WISDOT/CADDS SHEET 49

EARTHWORK CONTINUED

STATION	Distance	AREA (SF) Cut	AREA (SF) Salvaged/Unusable Pavement Material	AREA (SF) Fill	Incremental Vol (CY) (Unadjusted) Cut Note 1	Incremental Vol (CY) (Unadjusted) Salvaged/Unusable Pavement Material Note 2	Incremental Vol (CY) (Unadjusted) Fill Note 3	Cumulative Vol (CY) Cut 1.00 Note 1	Cumulative Vol (CY) Expanded Fill 1.20	Mass Ordinate Note 8
111+00	25.00	146.04	50.00	0.43	135.29	46	0.26	7,036	97.61	4623.20
111+25	25.00	142.45	50.00	0.42	133.56	46	0.39	7,169	98.08	4709.99
111+53	28.00	144.46	50.00	0.18	148.77	52	0.31	7,318	98.45	4806.53
111+69	16.00	139.66	50.00	2.42	84.18	30	0.77	7,402	99.38	4860.16
111+82	13.00	146.4	50.00	0.76	68.87	24	0.77	7,471	100.30	4904.04
112+10	28.00	146.52	50.00	0.35	151.88	52	0.58	7,623	100.99	5003.38
112+25	15.00	140.69	50.00	0.09	79.78	28	0.12	7,703	101.13	5055.24
112+50	25.00	137.76	50.00	2.62	128.91	46	1.25	7,832	102.64	5136.35
112+77	27.00	150.23	50.00	0.00	144.00	50	1.31	7,976	104.21	5228.77
113+00	23.00	188.85	50.00	0.00	144.42	43	0.00	8,120	104.21	5330.60
113+25	25.00	222.88	50.00	0.00	190.62	46	0.00	8,311	104.21	5474.92
113+50	25.00	203.94	50.00	1.77	197.60	46	0.82	8,508	105.19	5625.24
113+75	25.00	171.92	50.00	0.00	174.01	46	0.82	8,682	106.18	5751.97
114+00	25.00	159.21	50.00	0.00	153.30	46	0.00	8,836	106.18	5858.98
114+25	25.00	115.55	50.00	2.95	127.20	46	1.37	8,963	107.82	5938.24
114+38	13.00	135.52	50.00	0.00	60.44	24	0.71	9,023	108.67	5973.76
114+75	37.00	109.82	50.00	2.19	168.10	69	1.50	9,191	110.47	6071.54
115+00	25.00	105.2	50.00	0.40	99.55	46	1.20	9,291	111.91	6123.36
115+25	25.00	112.04	50.00	1.42	100.57	46	0.84	9,391	112.92	6176.62
115+50	25.00	128.14	50.00	0.88	111.19	46	1.06	9,503	114.20	6240.24
115+75	25.00	115.42	50.00	0.77	112.76	46	0.76	9,615	115.11	6305.79
116+00	25.00	118.7	50.00	0.34	108.39	46	0.51	9,724	115.73	6367.26
116+16	16.00	115.44	50.00	2.01	69.37	30	0.70	9,793	116.57	6406.17
116+50	34.00	187	50.00	0.00	190.43	63	1.27	9,984	118.09	6532.12
117+00	50.00	118.98	50.00	1.39	283.31	93	1.29	10,267	119.63	6721.30
117+25	25.00	119.49	50.00	1.53	110.40	46	1.35	10,377	121.25	6783.78
117+50	25.00	119.63	50.00	1.21	110.70	46	1.27	10,488	122.77	6846.67
117+75	25.00	116.69	50.00	1.11	109.41	46	1.07	10,597	124.06	6908.49
118+00	25.00	112.92	50.00	0.84	106.30	46	0.90	10,704	125.15	6967.41
118+25	25.00	110.48	50.00	0.54	103.43	46	0.64	10,807	125.91	7023.77
118+50	25.00	109	50.00	0.19	101.61	46	0.34	10,909	126.32	7078.68
118+71	21.00	114.61	50.00	0.06	86.96	39	0.10	10,996	126.44	7126.63
119+00	29.00	101.13	50.00	0.00	115.86	54	0.03	11,112	126.47	7188.75
					11,112	3,796	105			

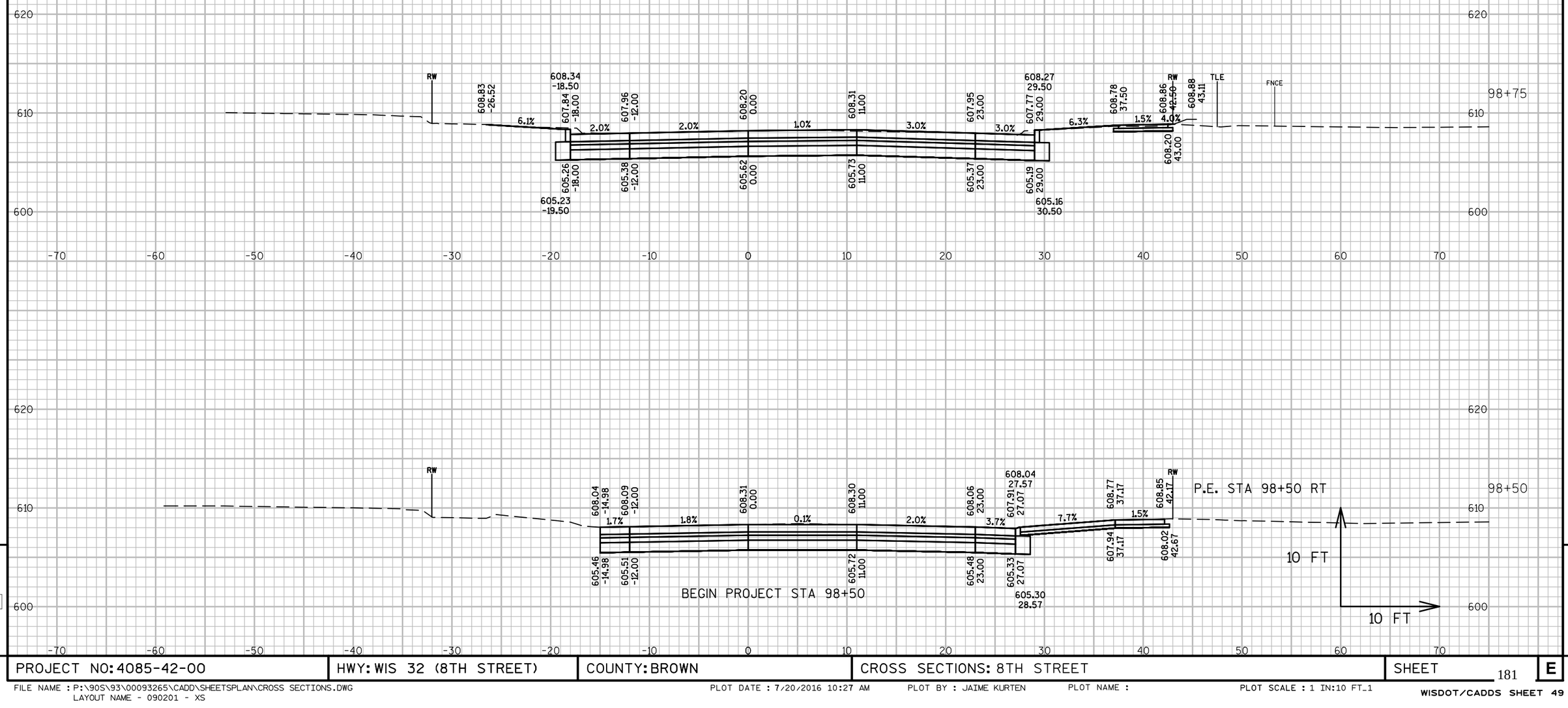
9

9

PROJECT NO: 4085-42-71	HWY: WIS 32 (8TH STREET)	COUNTY: BROWN	EARTHWORK	SHEET E

FILE NAME : P:\90s\93\00093265\CADD\SheetsPlan\Earthwork Border.dgn PLOT DATE : 3/31/2016 PLOT BY : jdolens PLOT NAME : PLOT SCALE : 1:200

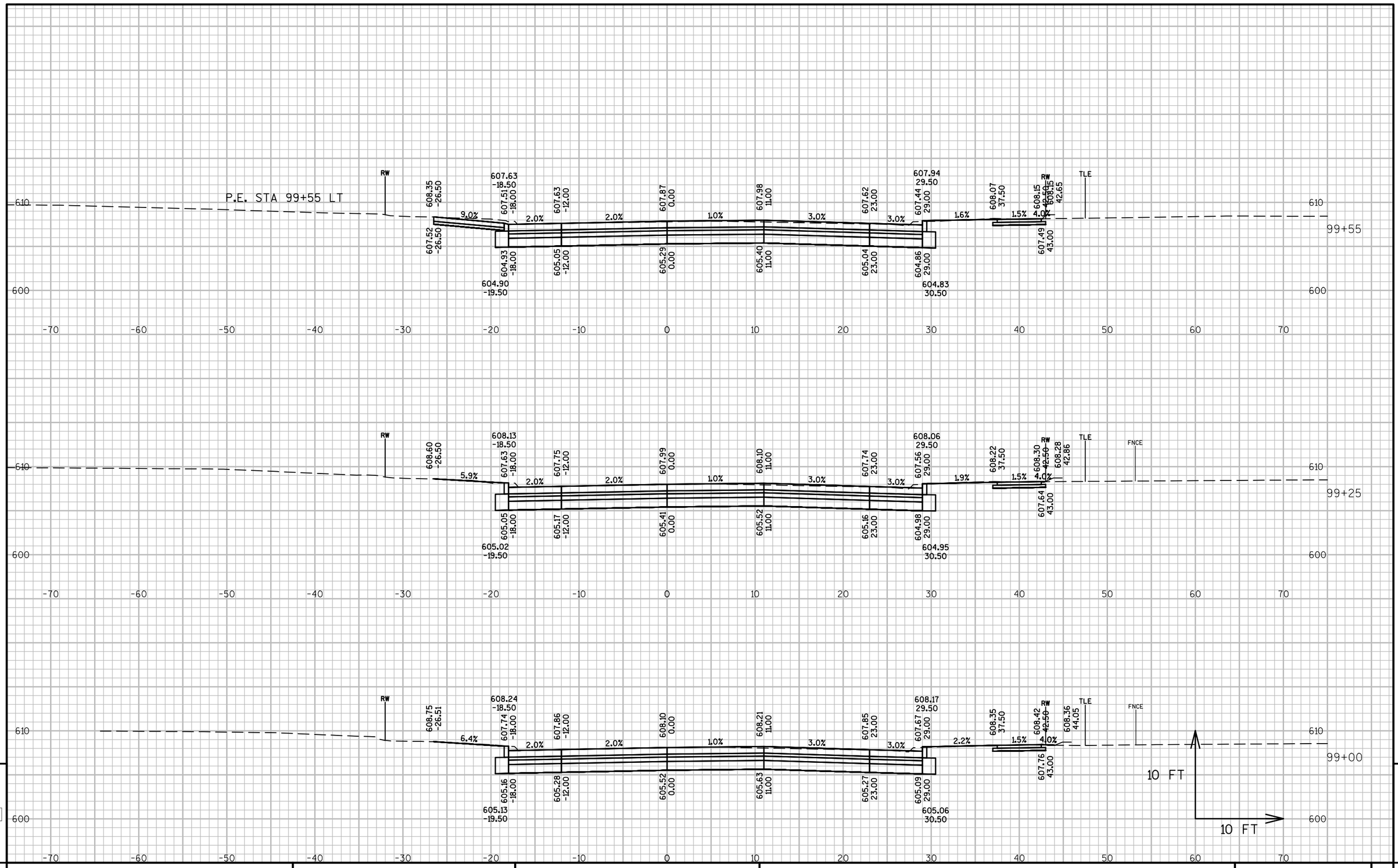
WISDOT/CADDS SHEET 49



PROJECT NO: 4085-42-00	HWY: WIS 32 (8TH STREET)	COUNTY: BROWN	CROSS SECTIONS: 8TH STREET	SHEET 181	E

FILE NAME : P:\90S\93\00093265\CADD\SHEETSPLAN\CROSS SECTIONS.DWG
LAYOUT NAME - 090201 - XS

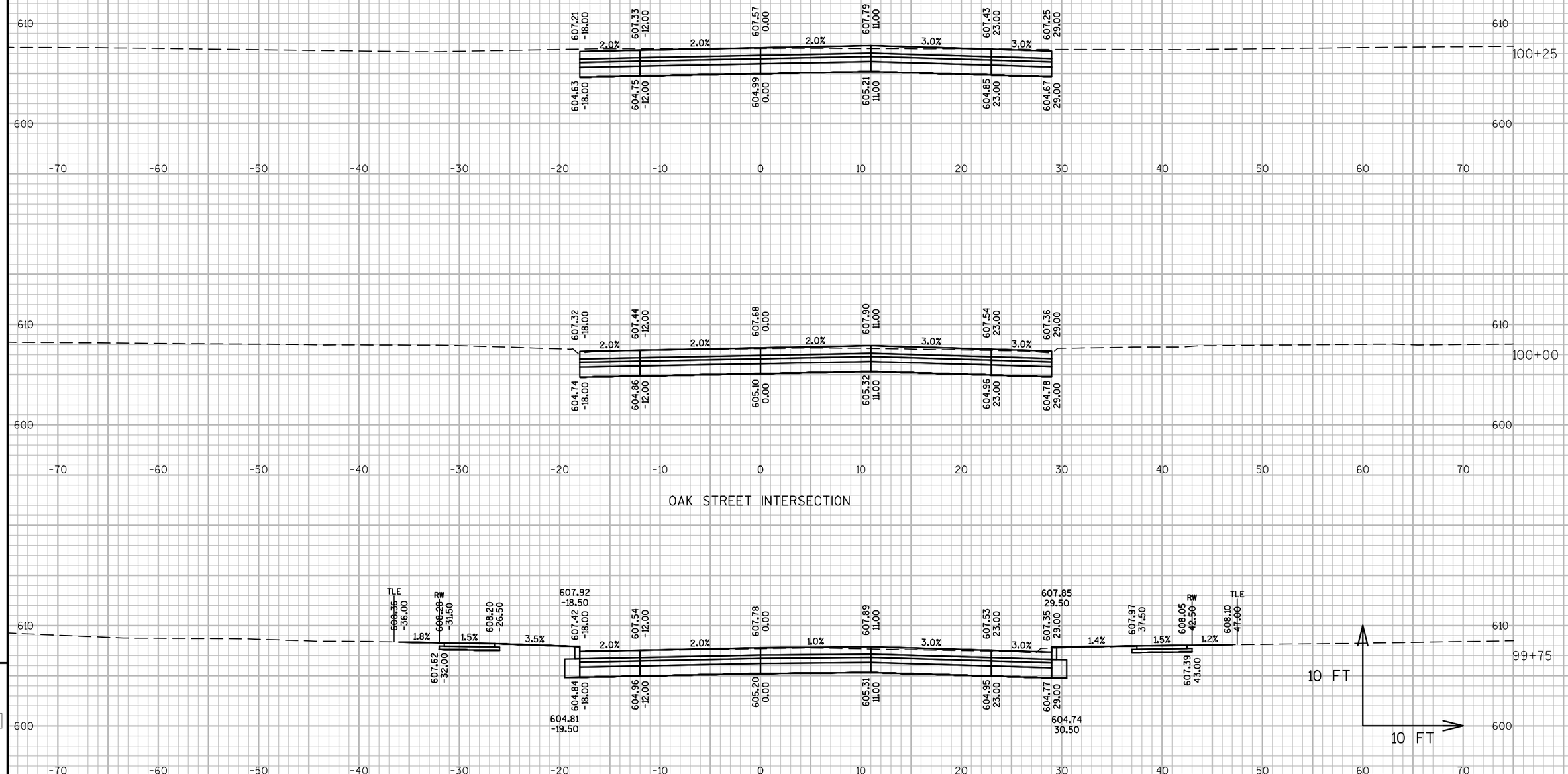
PLOT DATE : 7/20/2016 10:27 AM PLOT BY : JAIME KURTEN PLOT NAME : PLOT SCALE : 1 IN:10 FT_1



PROJECT NO: 4085-42-00	HWY: WIS 32 (8TH STREET)	COUNTY: BROWN	CROSS SECTIONS: 8TH STREET	SHEET 182	E

FILE NAME : P:\90S\93\00093265\CADD\SHEETSPLAN\CROSS SECTIONS.DWG
LAYOUT NAME - 090202 - XS

PLOT DATE : 7/20/2016 10:27 AM PLOT BY : JAIME KURTEN PLOT NAME : PLOT SCALE : 1 IN:10 FT_1



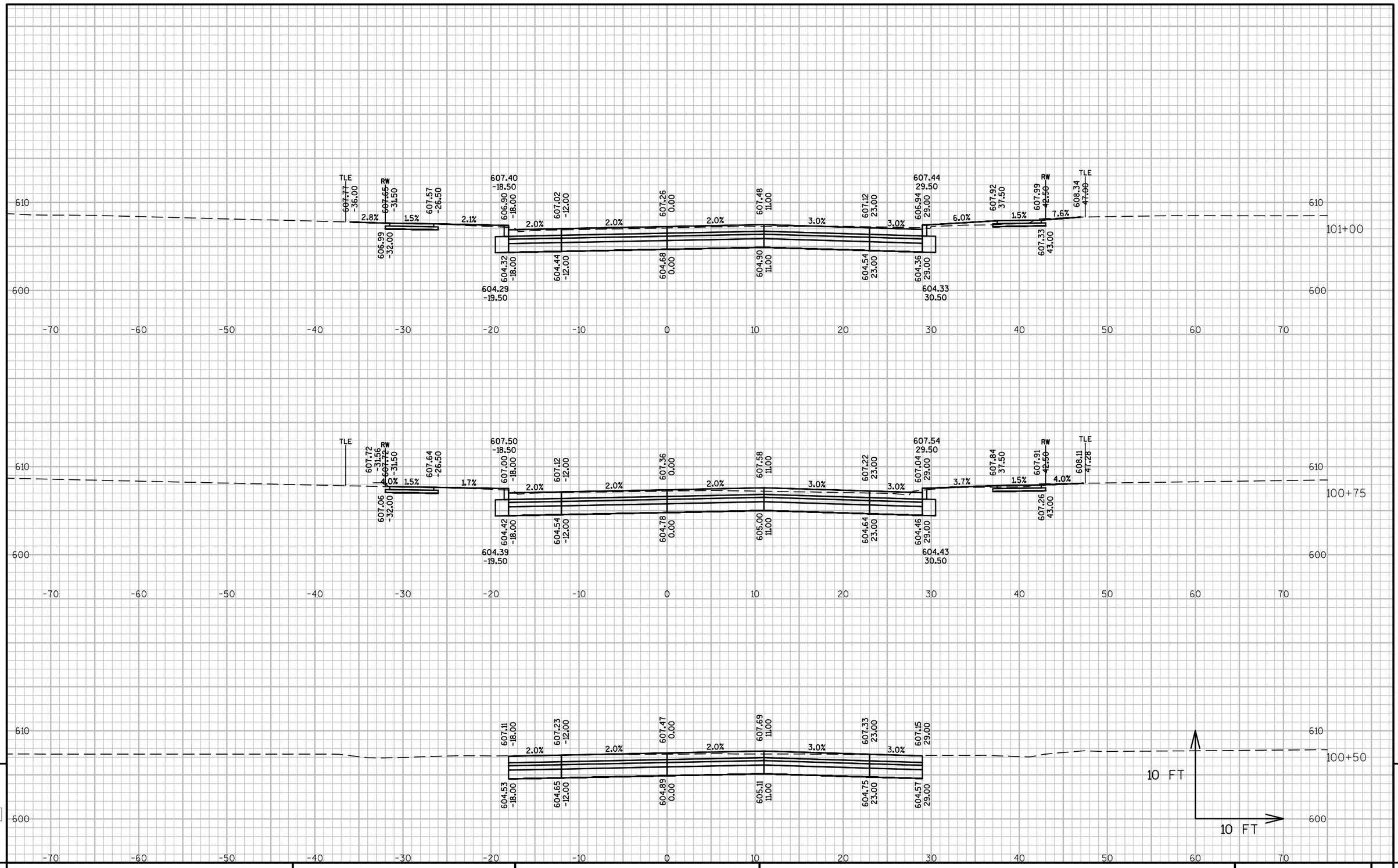
OAK STREET INTERSECTION

PROJECT NO: 4085-42-00	HWY: WIS 32 (8TH STREET)	COUNTY: BROWN	CROSS SECTIONS: 8TH STREET	SHEET 183	E

FILE NAME : P:\90S\93\00093265\CADD\SHEETSPLAN\CROSS SECTIONS.DWG
LAYOUT NAME - 090203 - XS

PLOT DATE : 7/20/2016 10:28 AM PLOT BY : JAIME KURTEN PLOT NAME : PLOT SCALE : 1 IN:10 FT_1

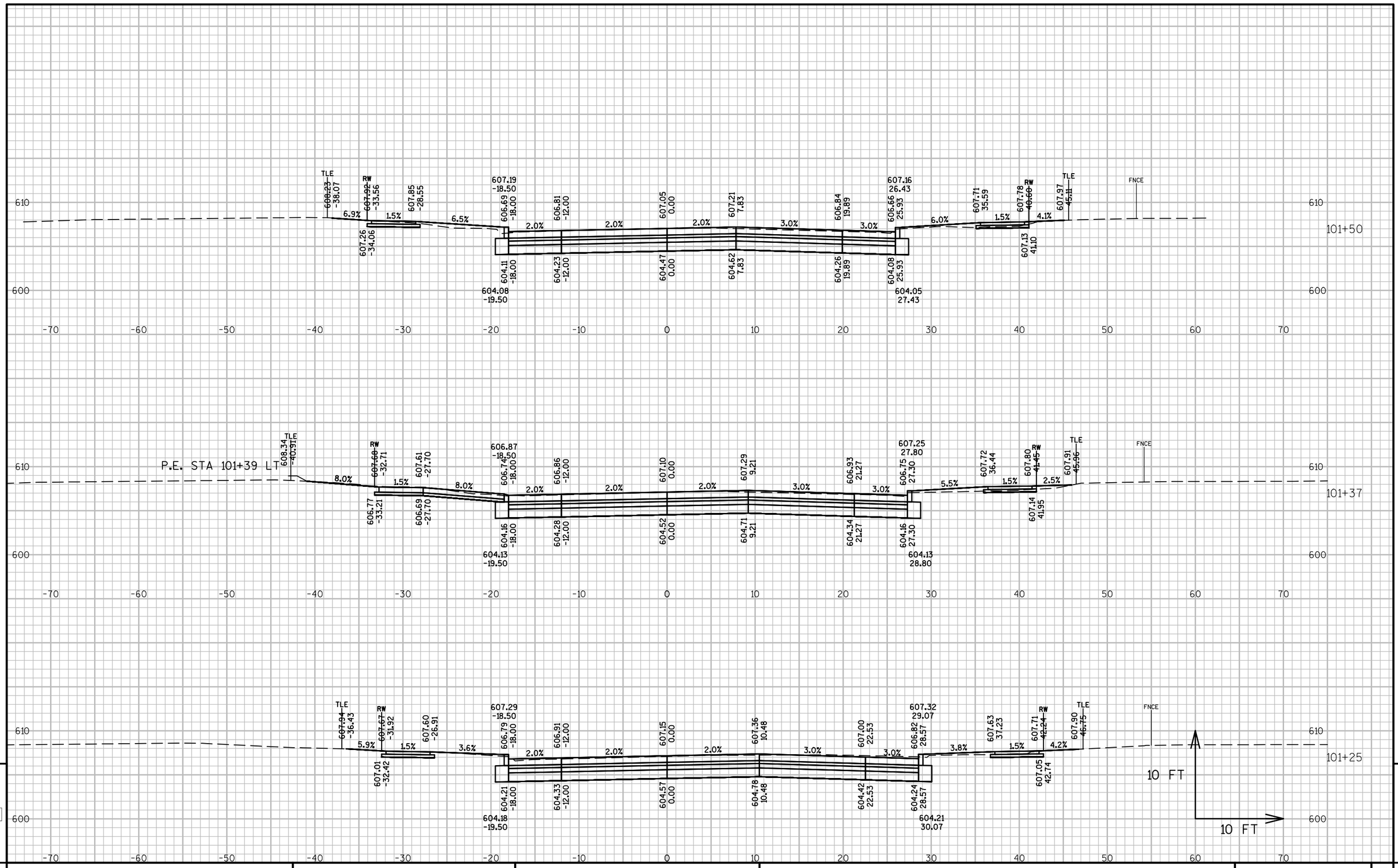
WISDOT/CADDS SHEET 49



PROJECT NO: 4085-42-00	HWY: WIS 32 (8TH STREET)	COUNTY: BROWN	CROSS SECTIONS: 8TH STREET	SHEET 184	E

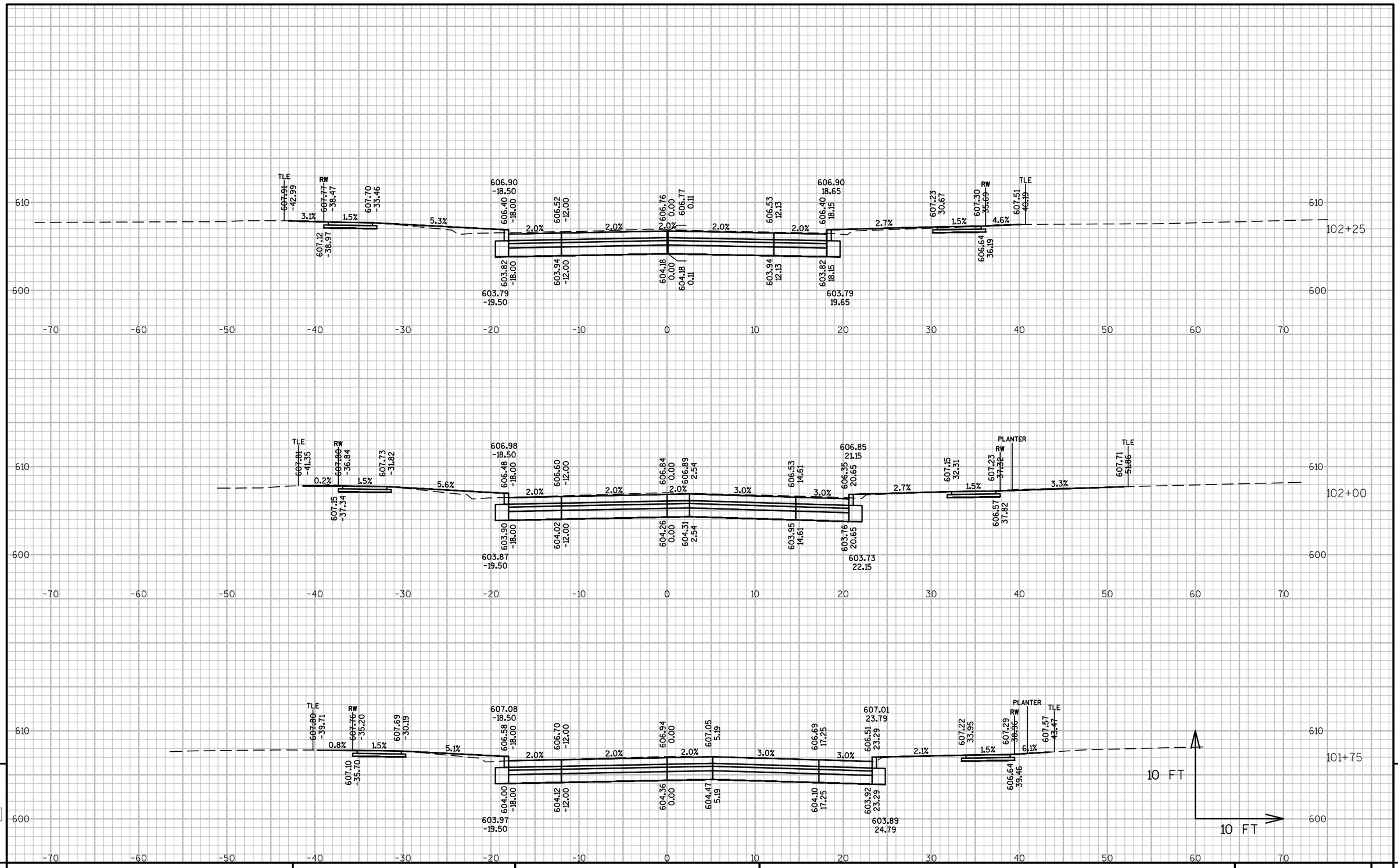
FILE NAME : P:\90S\93\00093265\CADD\SHEETSPLAN\CROSS SECTIONS.DWG
LAYOUT NAME - 090204 - XS

PLOT DATE : 7/20/2016 10:29 AM PLOT BY : JAIME KURTEN PLOT NAME : PLOT SCALE : 1 IN:10 FT_1



PROJECT NO: 4085-42-00	HWY: WIS 32 (8TH STREET)	COUNTY: BROWN	CROSS SECTIONS: 8TH STREET	SHEET 185	E

FILE NAME : P:\90S\93\00093265\CADD\SHEETSPLAN\CROSS SECTIONS.DWG
LAYOUT NAME - 090205 - XS
PLOT DATE : 7/20/2016 10:30 AM PLOT BY : JAIME KURTEN PLOT NAME : PLOT SCALE : 1 IN:10 FT_1
WISDOT/CADDS SHEET 49

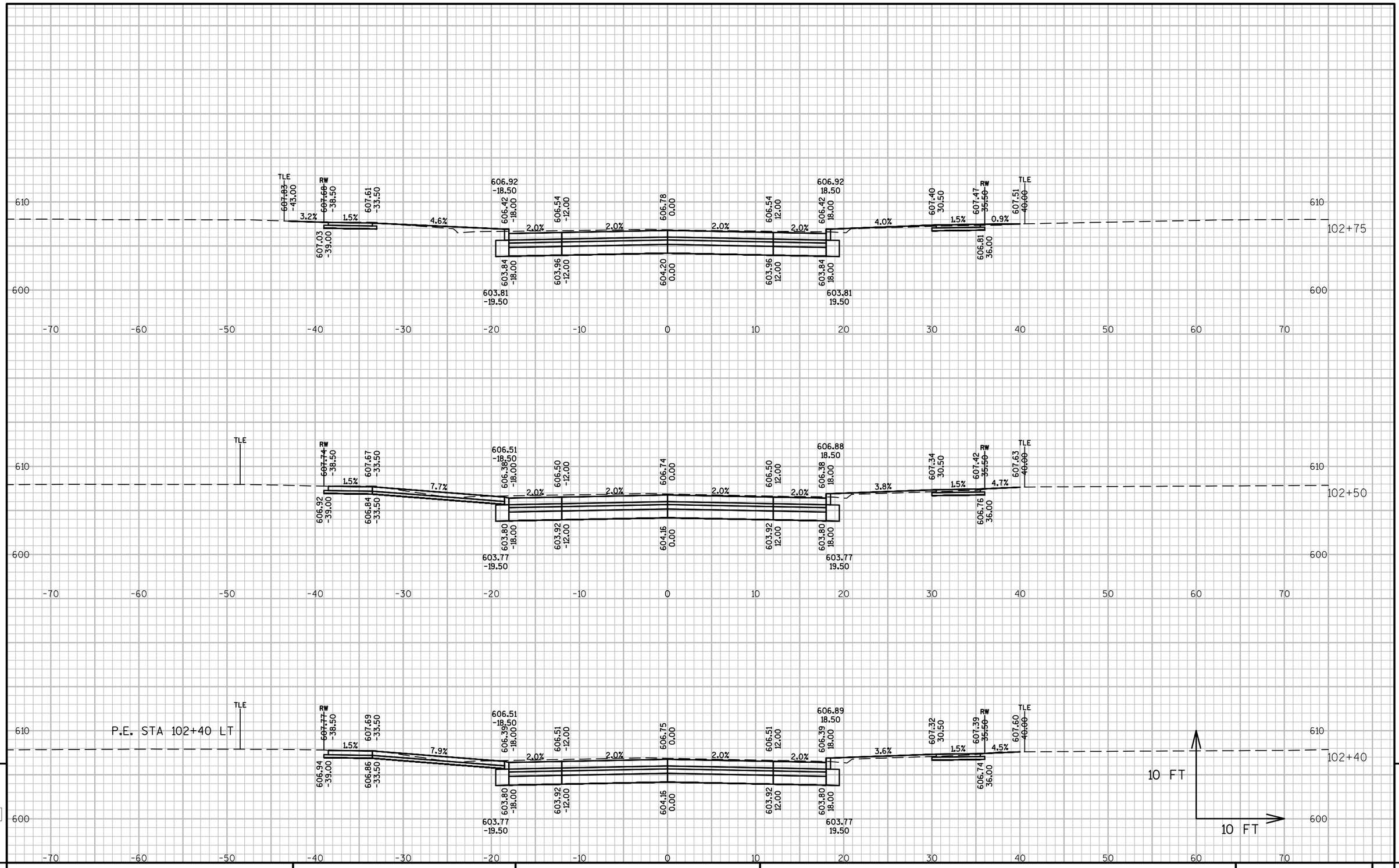


PROJECT NO: 4085-42-00	HWY: WIS 32 (8TH STREET)	COUNTY: BROWN	CROSS SECTIONS: 8TH STREET	SHEET 186	E

FILE NAME : P:\90S\93\00093265\CADD\SHEETSPLAN\CROSS SECTIONS.DWG
LAYOUT NAME - 090206 - XS

PLOT DATE : 7/20/2016 10:31 AM PLOT BY : JAIME KURTEN PLOT NAME : PLOT SCALE : 1 IN:10 FT_1

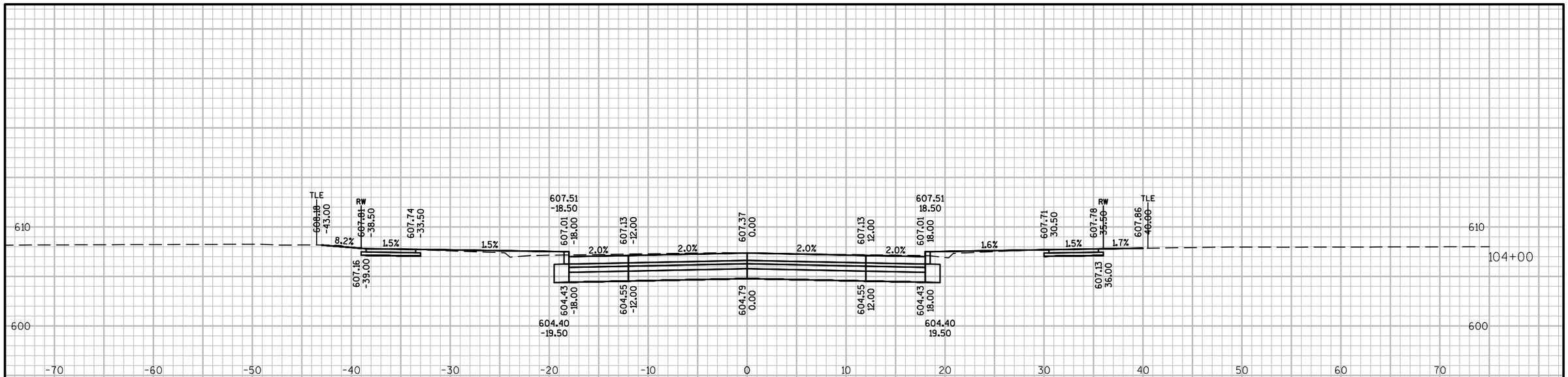
WISDOT/CADDS SHEET 49

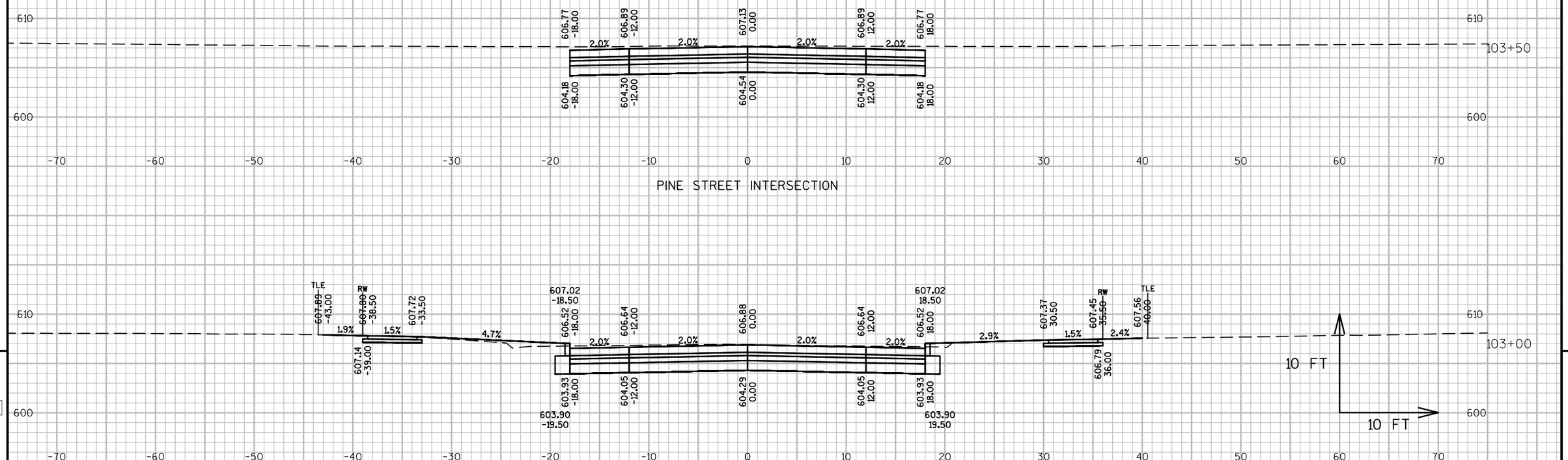


PROJECT NO: 4085-42-00	HWY: WIS 32 (8TH STREET)	COUNTY: BROWN	CROSS SECTIONS: 8TH STREET	SHEET 187	E

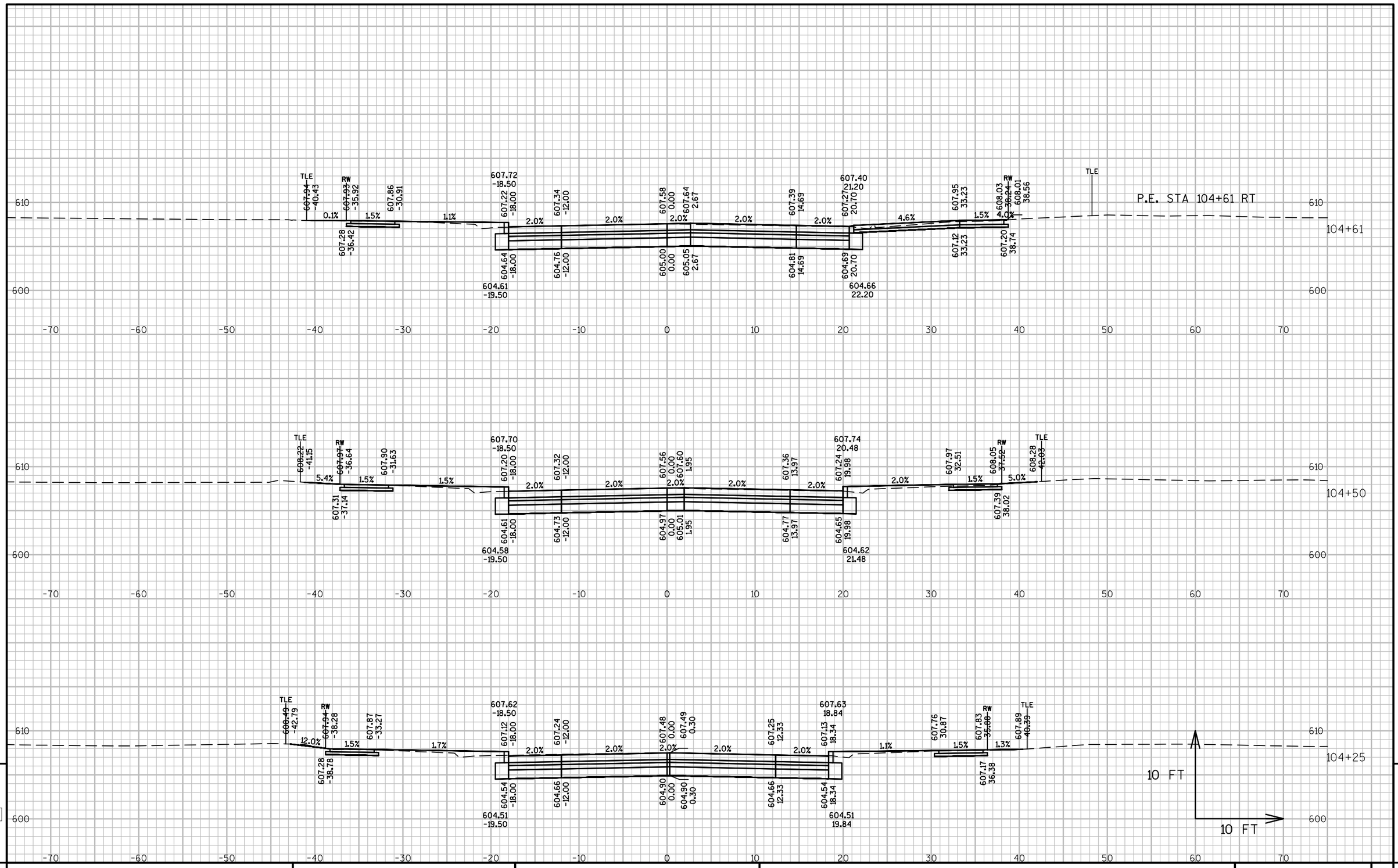
FILE NAME : P:\90S\93\00093265\CADD\SHEETSPLAN\CROSS SECTIONS.DWG
LAYOUT NAME - 090207 - XS

PLOT DATE : 7/20/2016 10:32 AM PLOT BY : JAIME KURTEN PLOT NAME : PLOT SCALE : 1 IN:10 FT_1





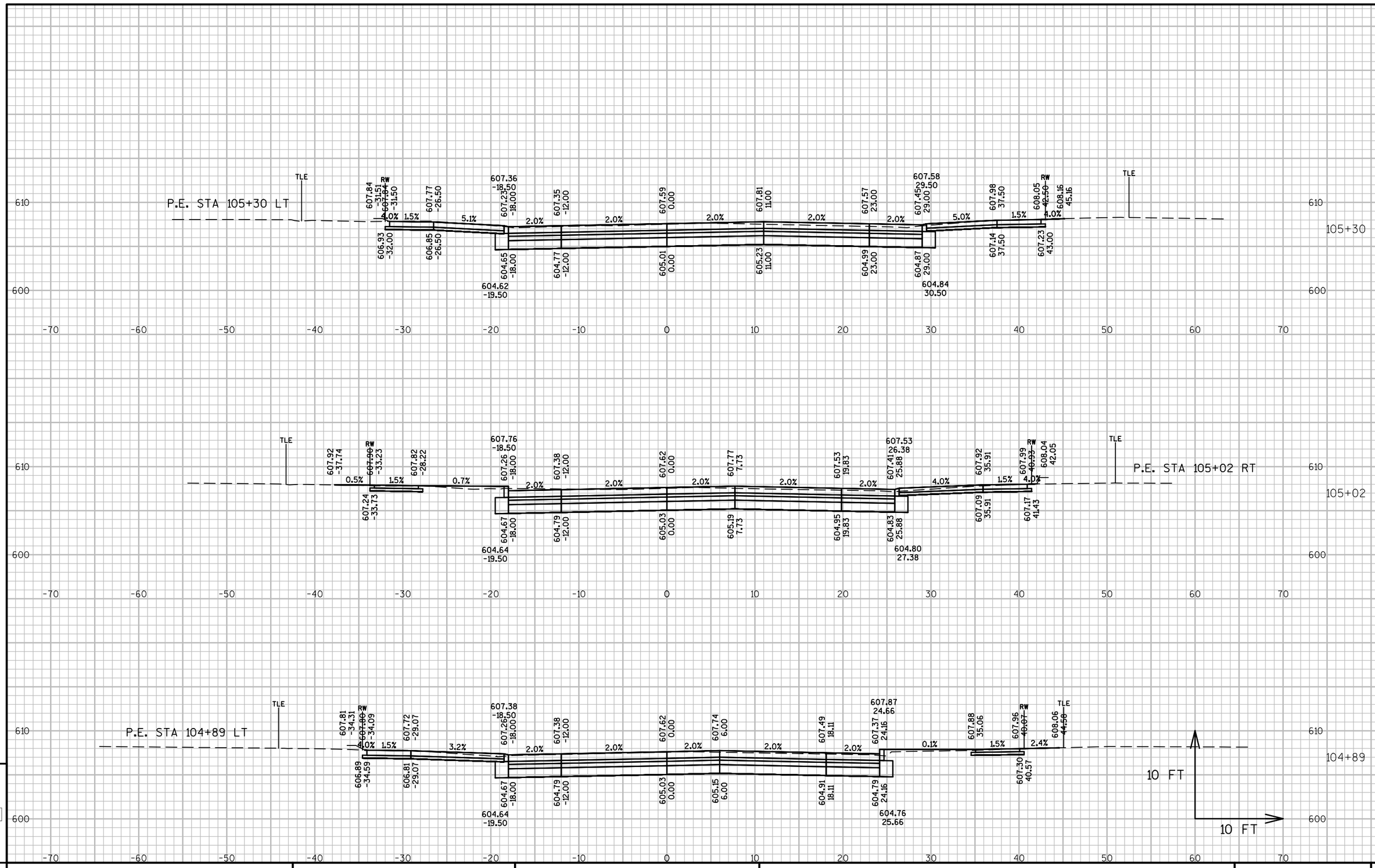
PROJECT NO: 4085-42-00	HWY: WIS 32 (8TH STREET)	COUNTY: BROWN	CROSS SECTIONS: 8TH STREET	SHEET 188	E



PROJECT NO: 4085-42-00	HWY: WIS 32 (8TH STREET)	COUNTY: BROWN	CROSS SECTIONS: 8TH STREET	SHEET 189	E

FILE NAME : P:\90S\93\00093265\CADD\SHEETSPLAN\CROSS SECTIONS.DWG
LAYOUT NAME - 090209 - XS

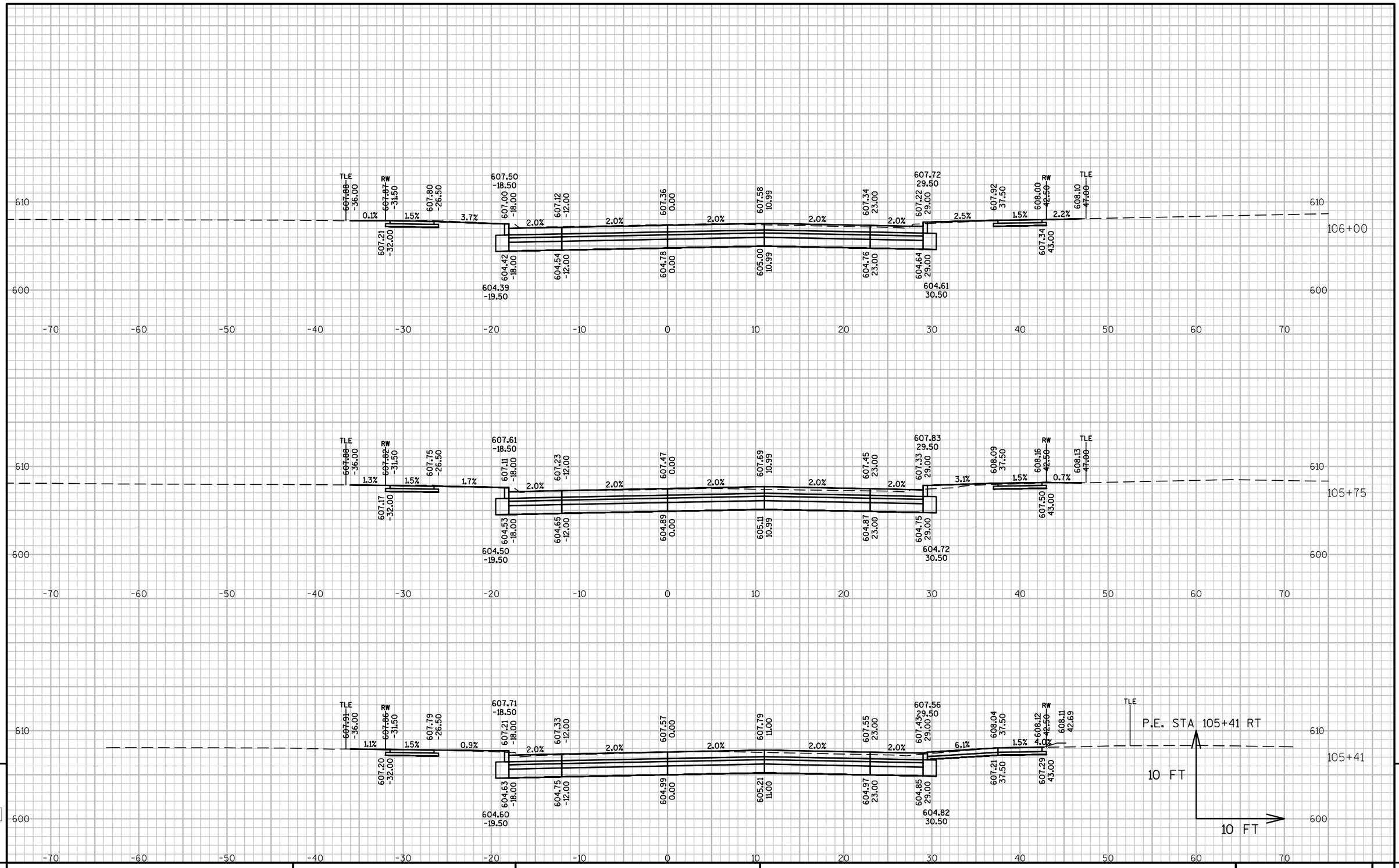
PLOT DATE : 7/20/2016 10:35 AM PLOT BY : JAIME KURTEN PLOT NAME : PLOT SCALE : 1 IN:10 FT_1



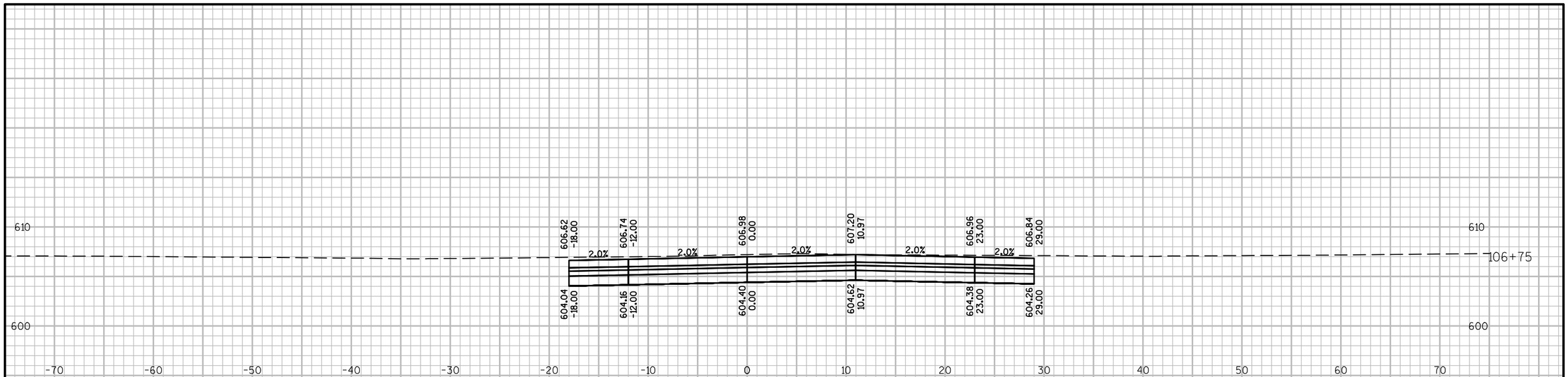
PROJECT NO: 4085-42-00	HWY: WIS 32 (8TH STREET)	COUNTY: BROWN	CROSS SECTIONS: 8TH STREET	SHEET 190	E

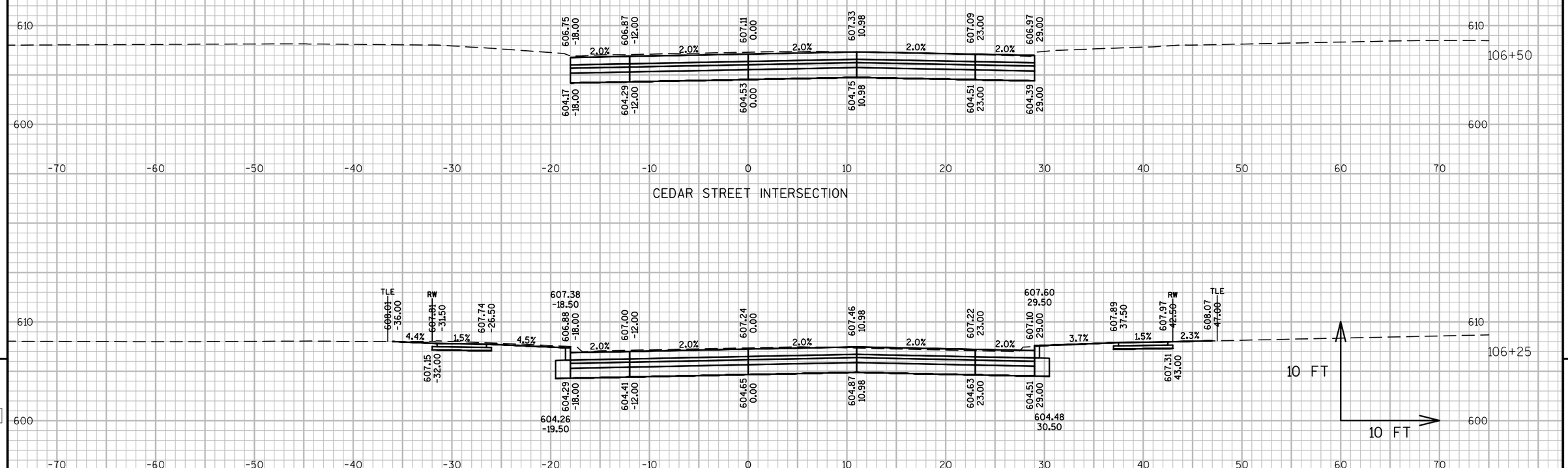
FILE NAME : P:\90S\93\00093265\CADD\SHEETSPLAN\CROSS SECTIONS.DWG
LAYOUT NAME - 090210 - XS

PLOT DATE : 7/20/2016 10:36 AM PLOT BY : JAIME KURTEN PLOT NAME : PLOT SCALE : 1 IN:10 FT_1



PROJECT NO: 4085-42-00	HWY: WIS 32 (8TH STREET)	COUNTY: BROWN	CROSS SECTIONS: 8TH STREET	SHEET 191	E



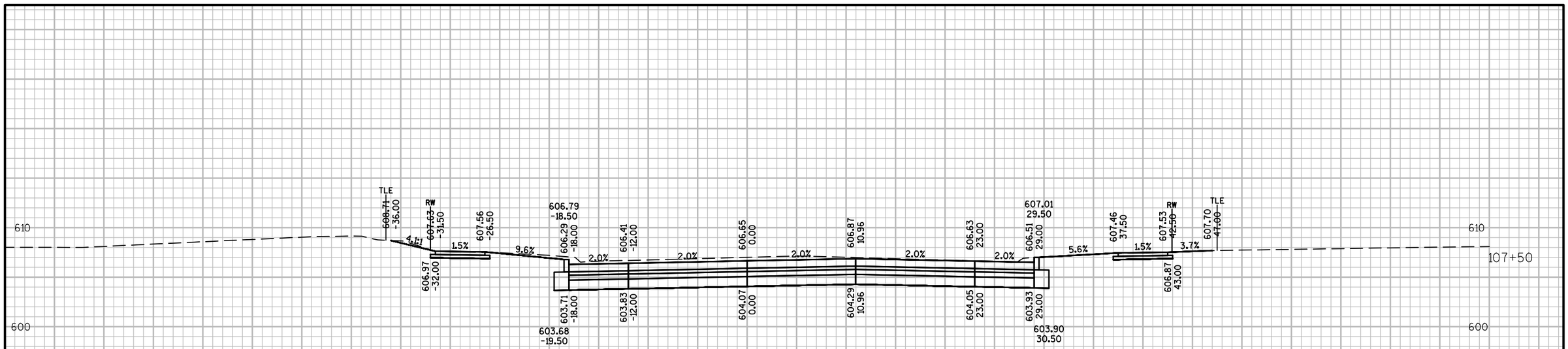


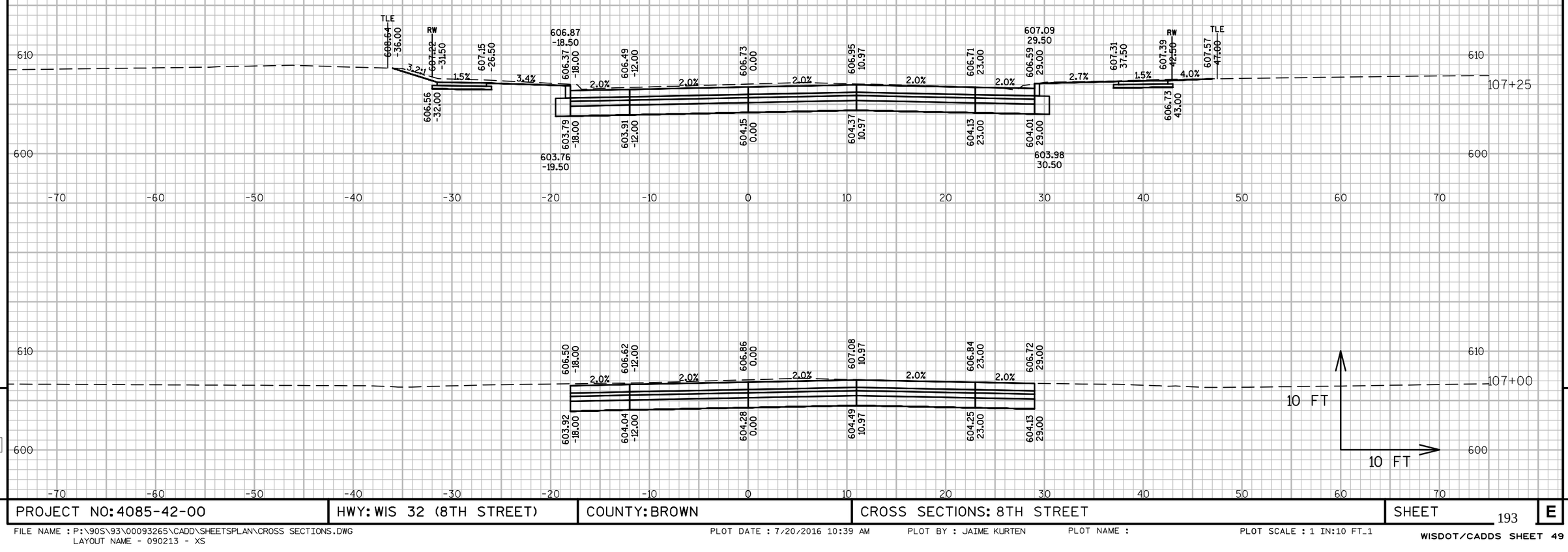
PROJECT NO: 4085-42-00	HWY: WIS 32 (8TH STREET)	COUNTY: BROWN	CROSS SECTIONS: 8TH STREET	SHEET 192	E

FILE NAME : P:\90S\93\00093265\CADD\SHEETSPLAN\CROSS SECTIONS.DWG
LAYOUT NAME - 090212 - XS

PLOT DATE : 7/20/2016 10:38 AM PLOT BY : JAIME KURTEN PLOT NAME : PLOT SCALE : 1 IN:10 FT_1

WISDOT/CADDS SHEET 49

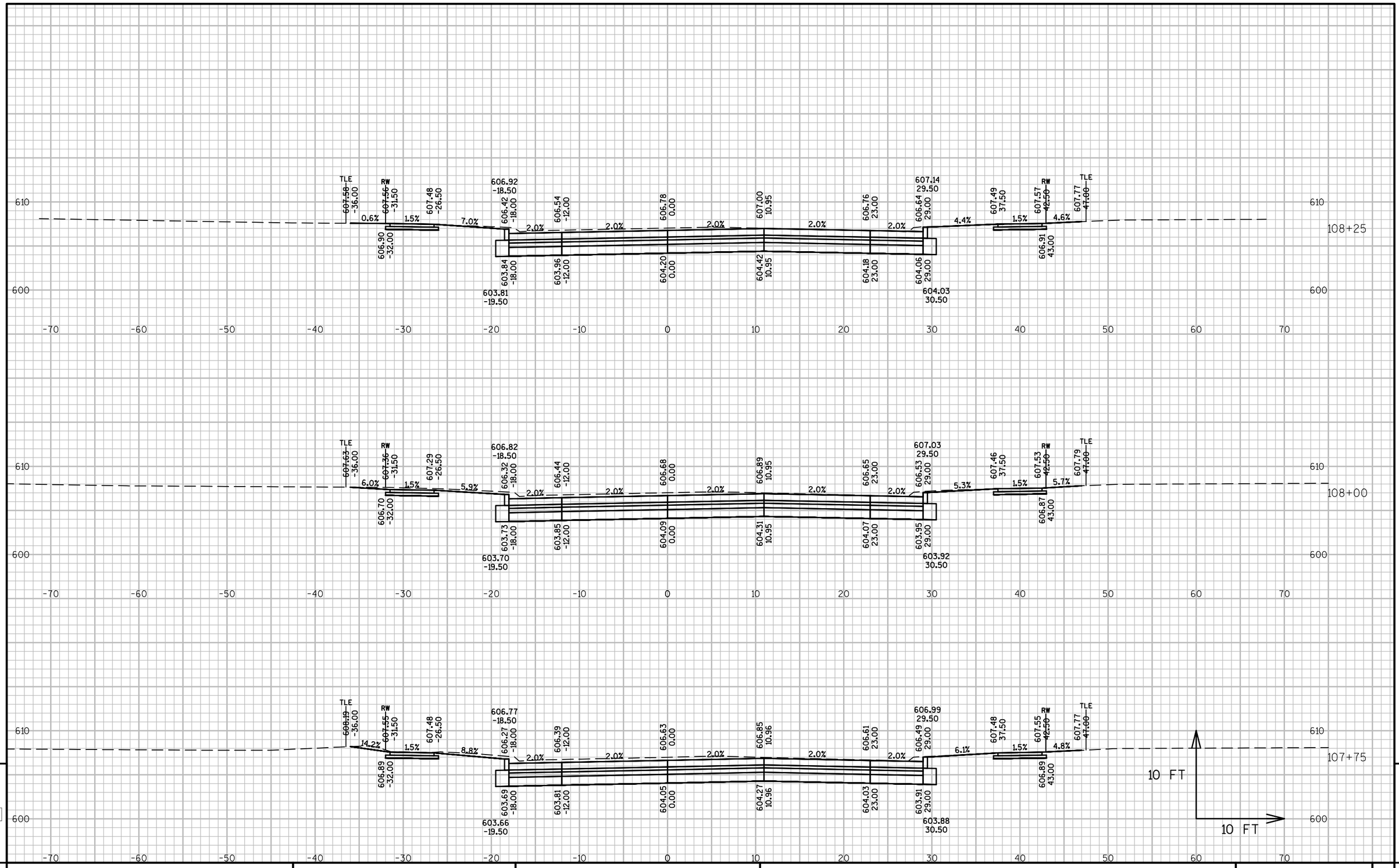




PROJECT NO: 4085-42-00	HWY: WIS 32 (8TH STREET)	COUNTY: BROWN	CROSS SECTIONS: 8TH STREET	SHEET 193	E

FILE NAME : P:\90S\93\00093265\CADD\SHEETSPLAN\CROSS SECTIONS.DWG
LAYOUT NAME - 090213 - XS

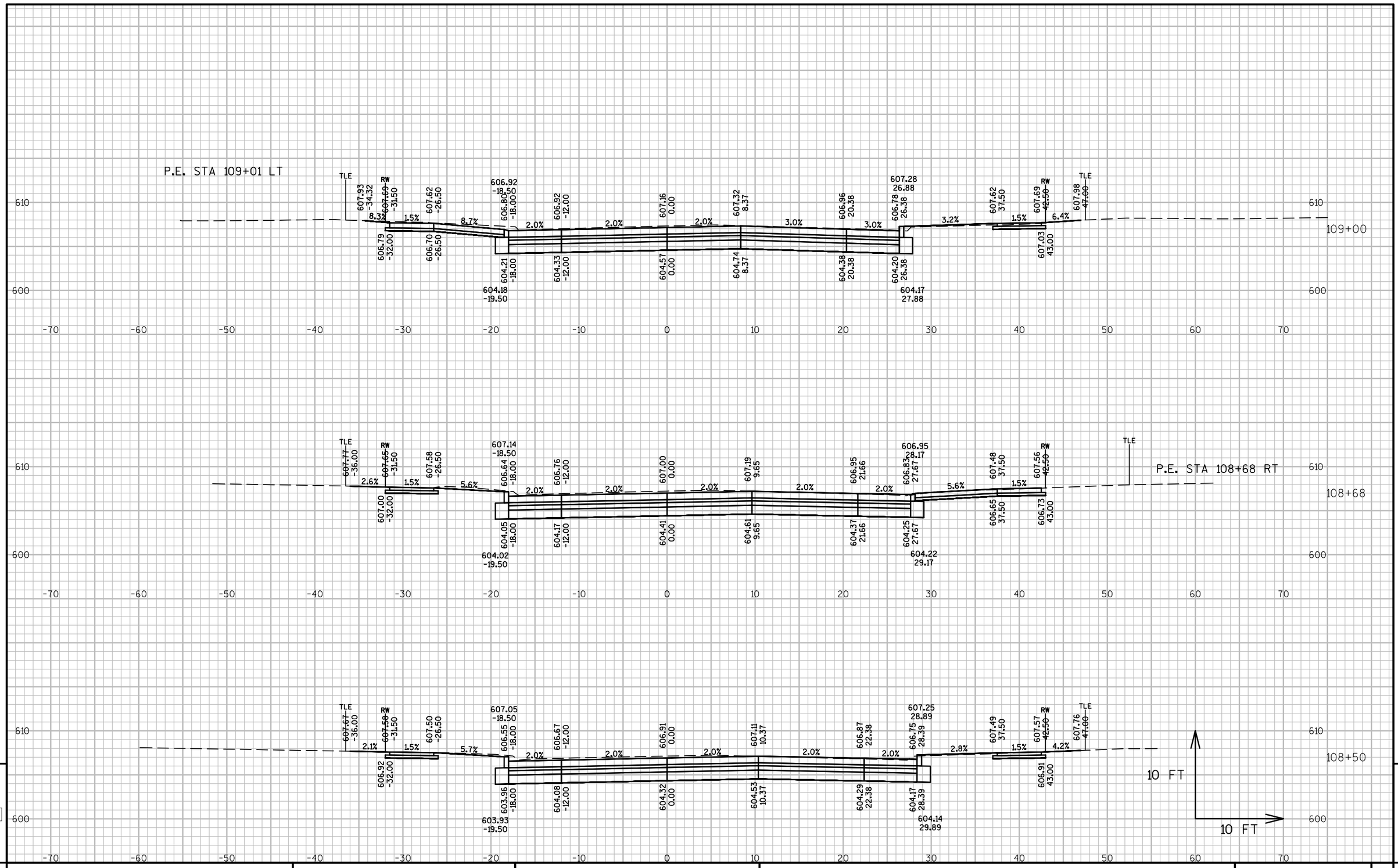
PLOT DATE : 7/20/2016 10:39 AM PLOT BY : JAIME KURTEN PLOT NAME : PLOT SCALE : 1 IN:10 FT_1



PROJECT NO: 4085-42-00	HWY: WIS 32 (8TH STREET)	COUNTY: BROWN	CROSS SECTIONS: 8TH STREET	SHEET 194	E

FILE NAME : P:\90S\93\00093265\CADD\SHEETSPLAN\CROSS SECTIONS.DWG
LAYOUT NAME - 090214 - XS

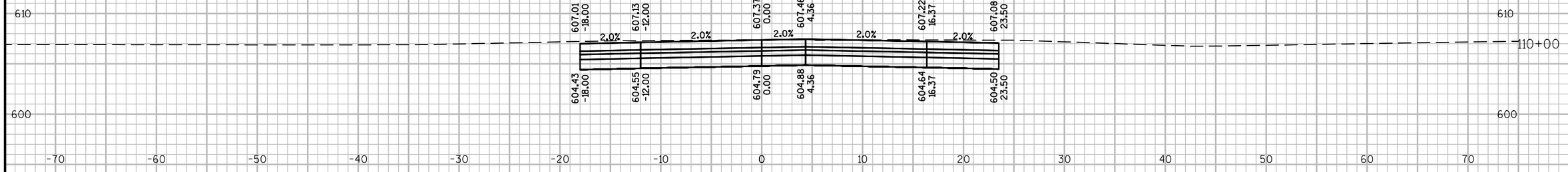
PLOT DATE : 7/20/2016 10:39 AM PLOT BY : JAIME KURTEN PLOT NAME : PLOT SCALE : 1 IN:10 FT_1



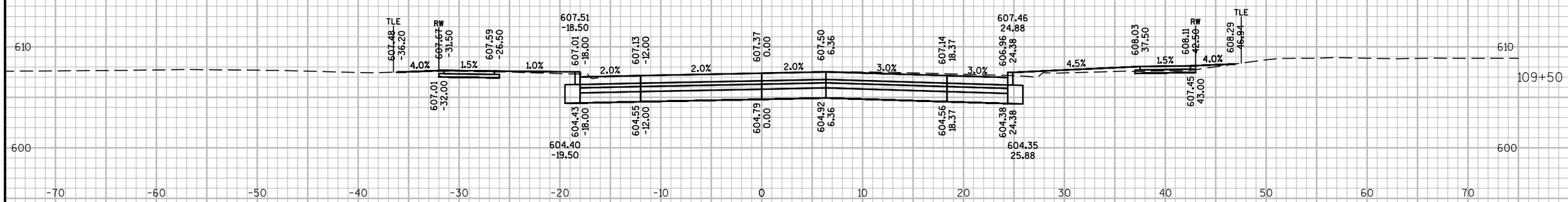
PROJECT NO: 4085-42-00	HWY: WIS 32 (8TH STREET)	COUNTY: BROWN	CROSS SECTIONS: 8TH STREET	SHEET 195	E

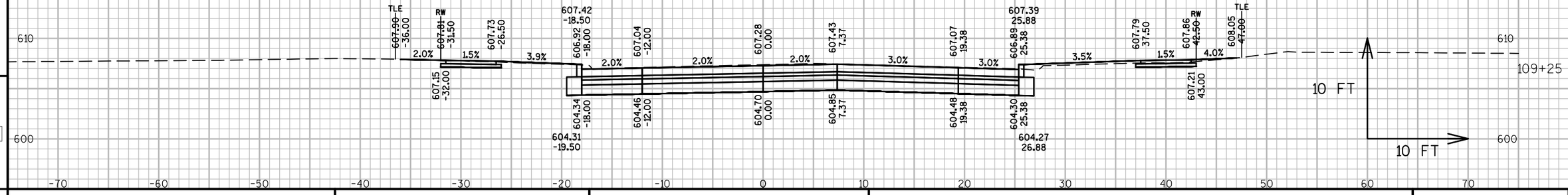
FILE NAME : P:\90S\93\00093265\CADD\SHEETSPLAN\CROSS SECTIONS.DWG
LAYOUT NAME - 090215 - XS

PLOT DATE : 7/20/2016 10:40 AM PLOT BY : JAIME KURTEN PLOT NAME : PLOT SCALE : 1 IN:10 FT_1



ELM STREET INTERSECTION

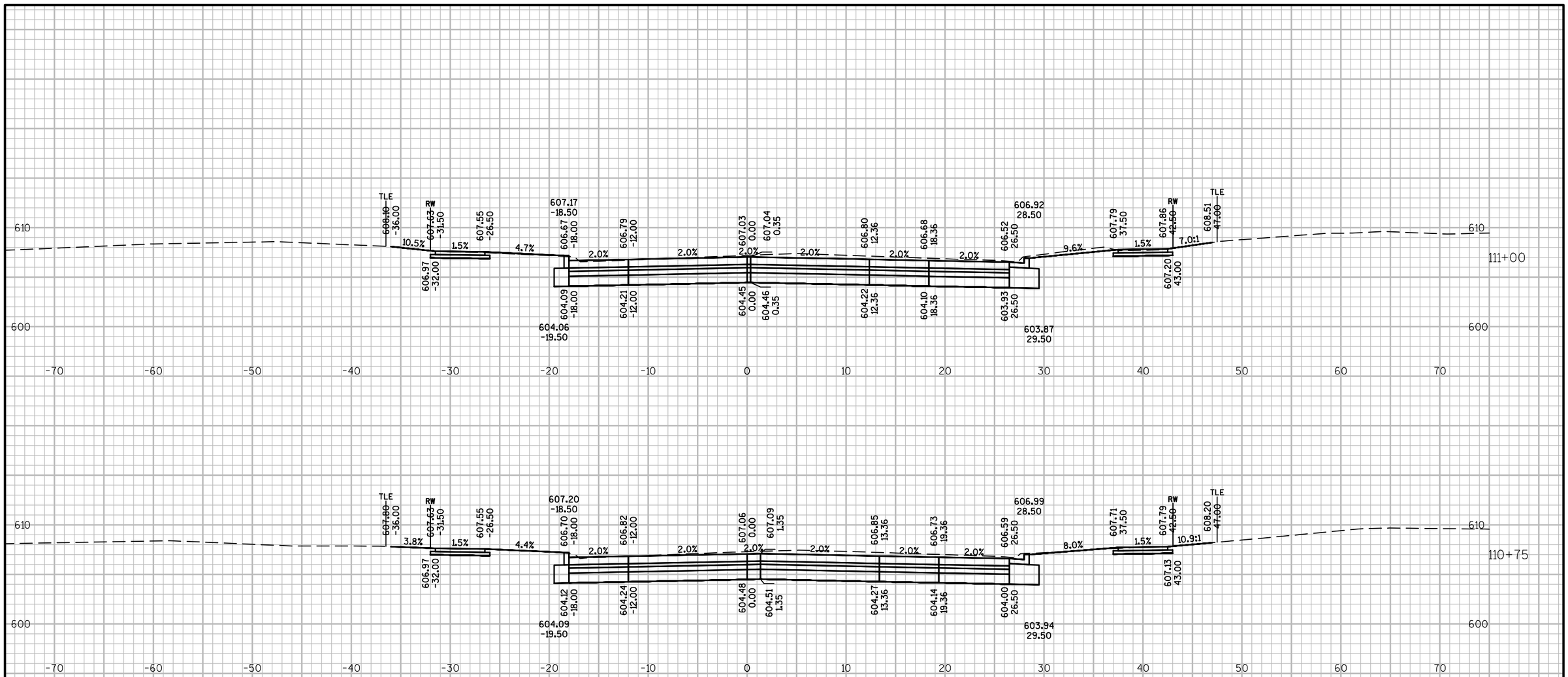




PROJECT NO: 4085-42-00	HWY: WIS 32 (8TH STREET)	COUNTY: BROWN	CROSS SECTIONS: 8TH STREET	SHEET 196	E

FILE NAME : P:\90S\93\00093265\CADD\SHEETSPLAN\CROSS SECTIONS.DWG
LAYOUT NAME - 090216 - XS

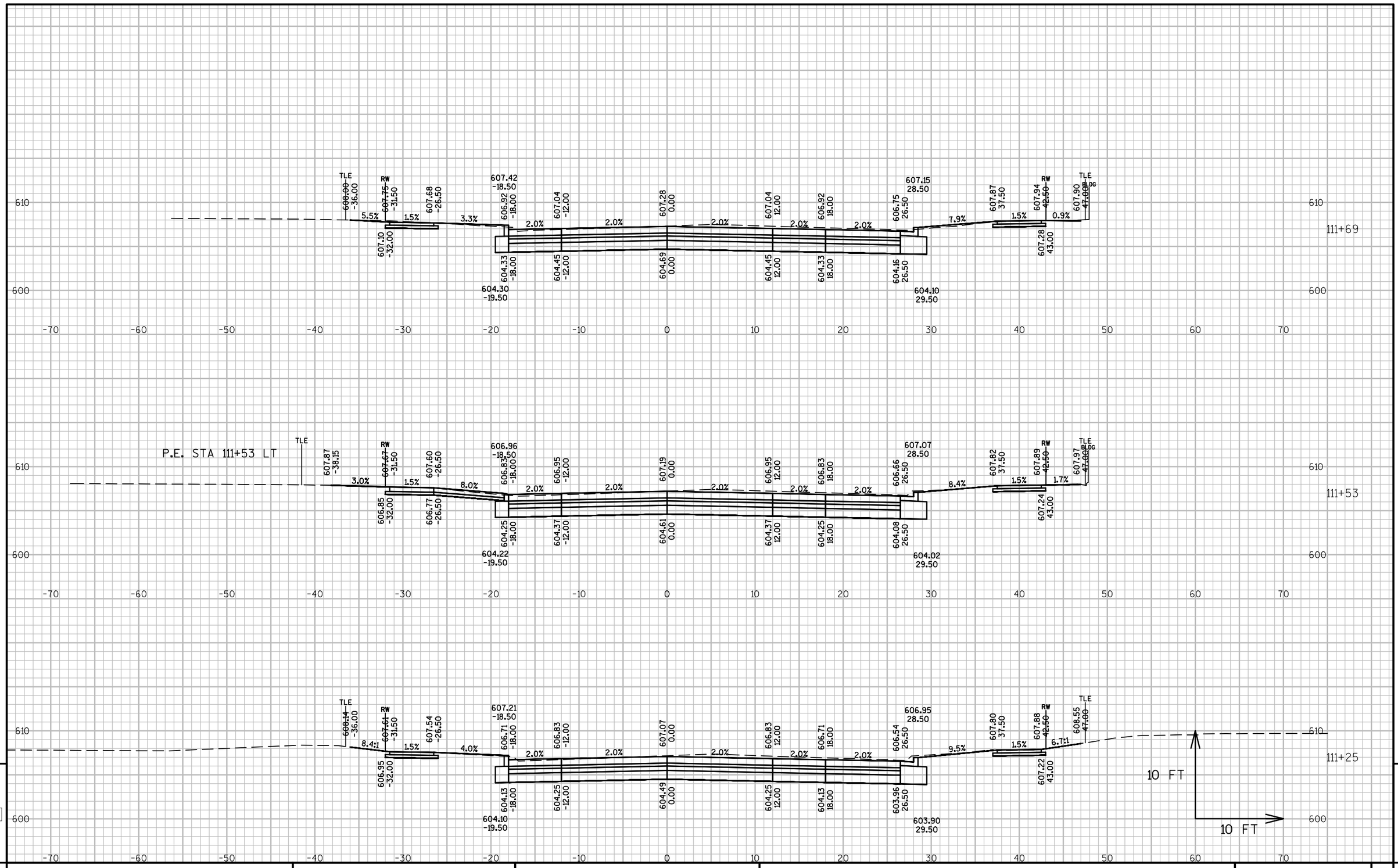
PLOT DATE : 7/20/2016 10:41 AM PLOT BY : JAIME KURTEN PLOT NAME : PLOT SCALE : 1 IN:10 FT_1



PROJECT NO: 4085-42-00	HWY: WIS 32 (8TH STREET)	COUNTY: BROWN	CROSS SECTIONS: 8TH STREET	SHEET 197	E

FILE NAME : P:\90S\93\00093265\CADD\SHEETSPLAN\CROSS SECTIONS.DWG
LAYOUT NAME - 090217 - XS

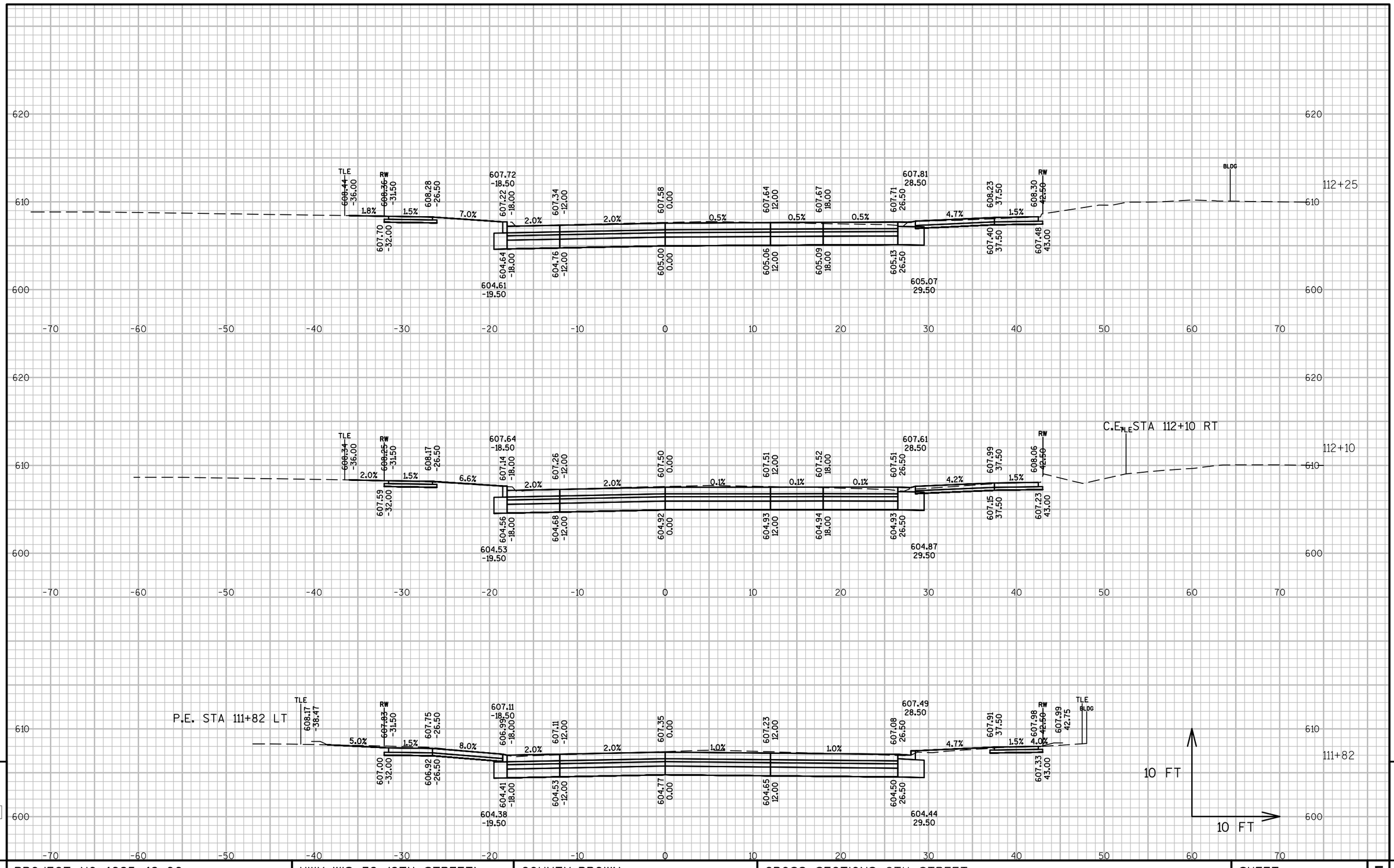
PLOT DATE : 7/20/2016 10:42 AM PLOT BY : JAIME KURTEN PLOT NAME : PLOT SCALE : 1 IN:10 FT_1



PROJECT NO: 4085-42-00	HWY: WIS 32 (8TH STREET)	COUNTY: BROWN	CROSS SECTIONS: 8TH STREET	SHEET 198	E

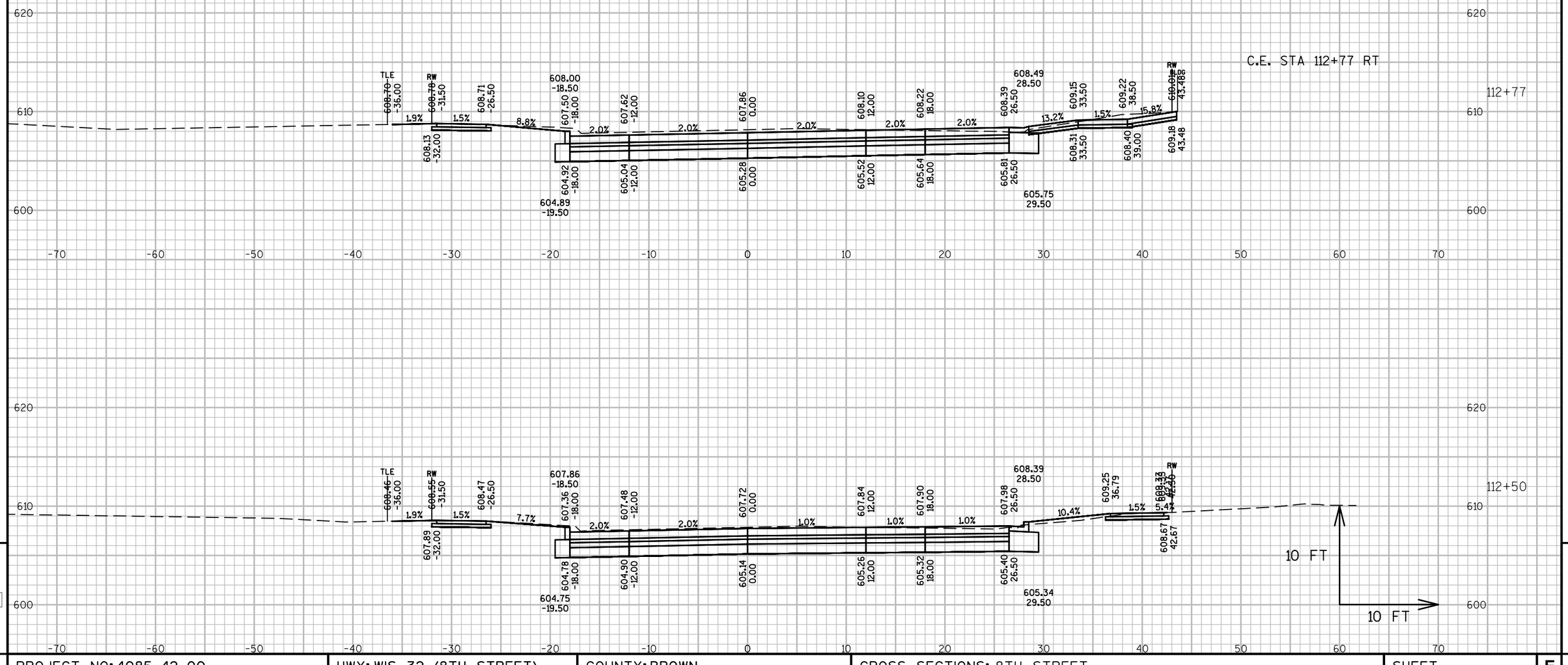
FILE NAME : P:\90S\93\00093265\CADD\SHEETSPLAN\CROSS SECTIONS.DWG
LAYOUT NAME - 090218 - XS

PLOT DATE : 7/20/2016 10:43 AM PLOT BY : JAIME KURTEN PLOT NAME : PLOT SCALE : 1 IN:10 FT_1



PROJECT NO: 4085-42-00	HWY: WIS 32 (8TH STREET)	COUNTY: BROWN	CROSS SECTIONS: 8TH STREET	SHEET 199	E

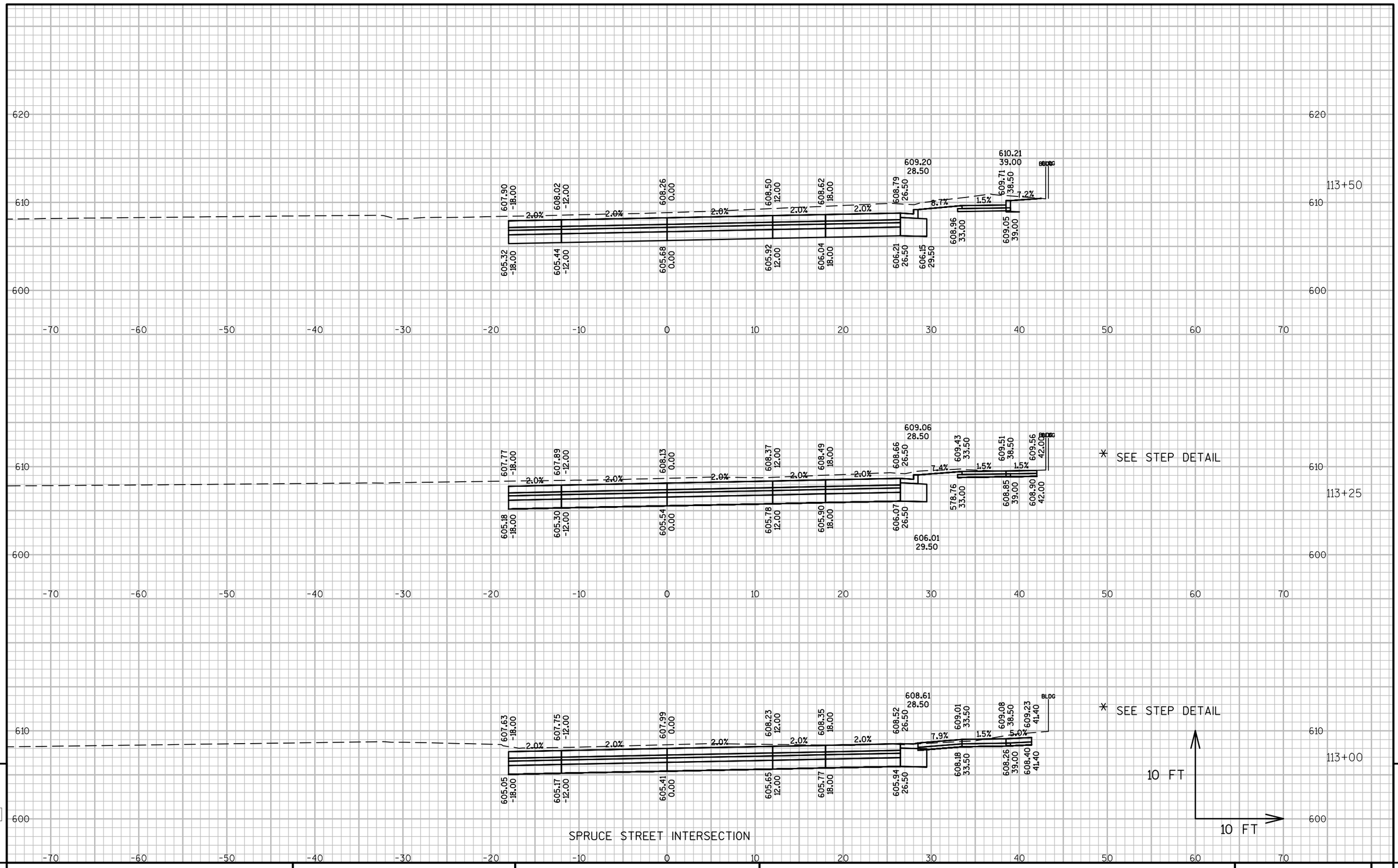
C.E. STA 112+77 RT



PROJECT NO: 4085-42-00	HWY: WIS 32 (8TH STREET)	COUNTY: BROWN	CROSS SECTIONS: 8TH STREET	SHEET 200	E

FILE NAME : P:\90S\93\00093265\CADD\SHEETSPLAN\CROSS SECTIONS.DWG
LAYOUT NAME - 090220 - XS

PLOT DATE : 7/20/2016 10:45 AM PLOT BY : JAIME KURTEN PLOT NAME : PLOT SCALE : 1 IN:10 FT_1

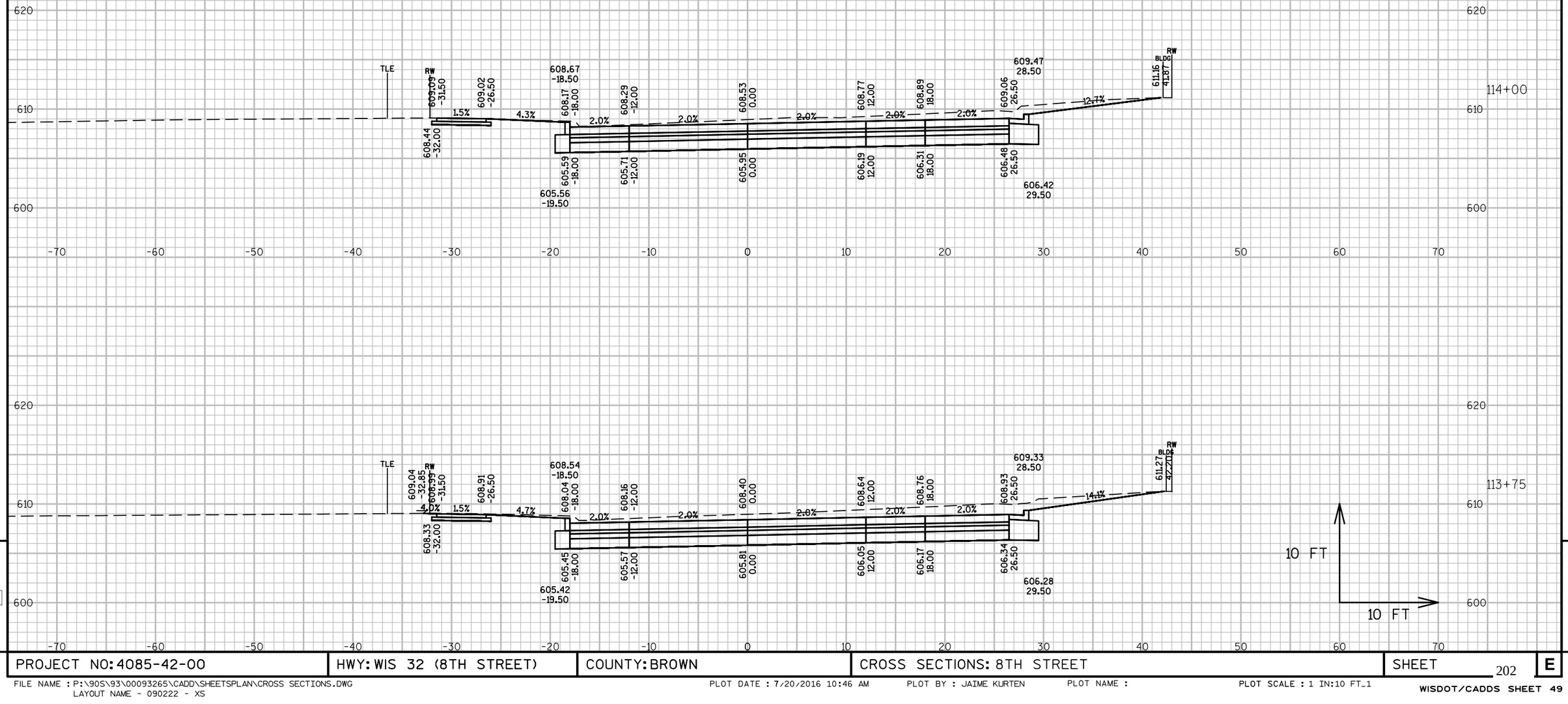


PROJECT NO: 4085-42-00	HWY: WIS 32 (8TH STREET)	COUNTY: BROWN	CROSS SECTIONS: 8TH STREET	SHEET 201	E

FILE NAME : P:\90S\93\00093265\CADD\SHEETSPLAN\CROSS SECTIONS.DWG
LAYOUT NAME - 090221 - XS

PLOT DATE : 7/20/2016 10:45 AM PLOT BY : JAIME KURTEN PLOT NAME : PLOT SCALE : 1 IN:10 FT_1

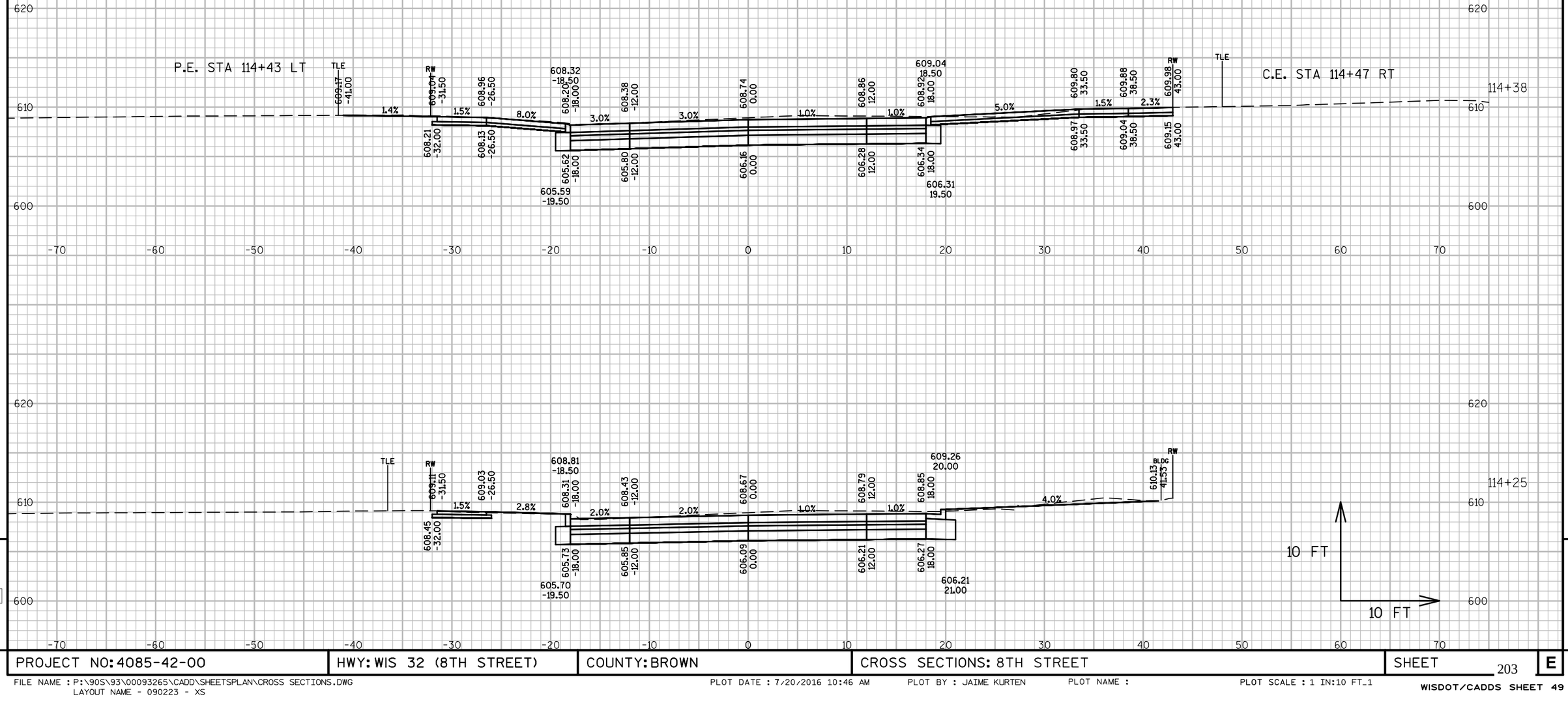
WISDOT/CADDS SHEET 49



PROJECT NO: 4085-42-00	HWY: WIS 32 (8TH STREET)	COUNTY: BROWN	CROSS SECTIONS: 8TH STREET	SHEET 202	E

FILE NAME : P:\90S\93\00093265\CADD\SHEETSPLAN\CROSS SECTIONS.DWG
LAYOUT NAME - 090222 - XS

PLOT DATE : 7/20/2016 10:46 AM PLOT BY : JAIME KURTEN PLOT NAME : PLOT SCALE : 1 IN:10 FT_1

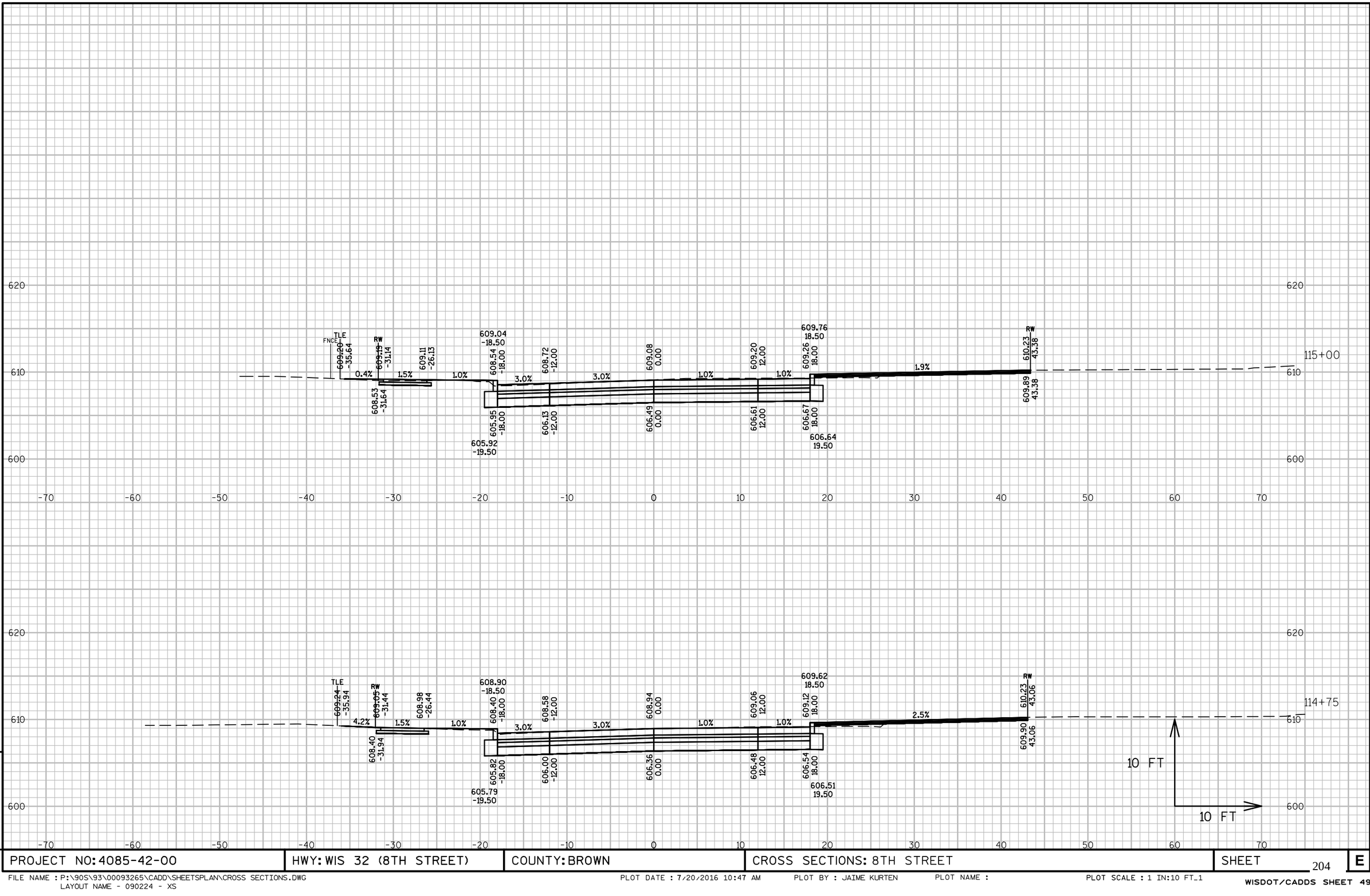


PROJECT NO: 4085-42-00	HWY: WIS 32 (8TH STREET)	COUNTY: BROWN	CROSS SECTIONS: 8TH STREET	SHEET 203	E

FILE NAME : P:\90S\93\00093265\CADD\SHEETSPLAN\CROSS SECTIONS.DWG
LAYOUT NAME - 090223 - XS

PLOT DATE : 7/20/2016 10:46 AM PLOT BY : JAIME KURTEN PLOT NAME : PLOT SCALE : 1 IN:10 FT_1

WISDOT/CADDS SHEET 49

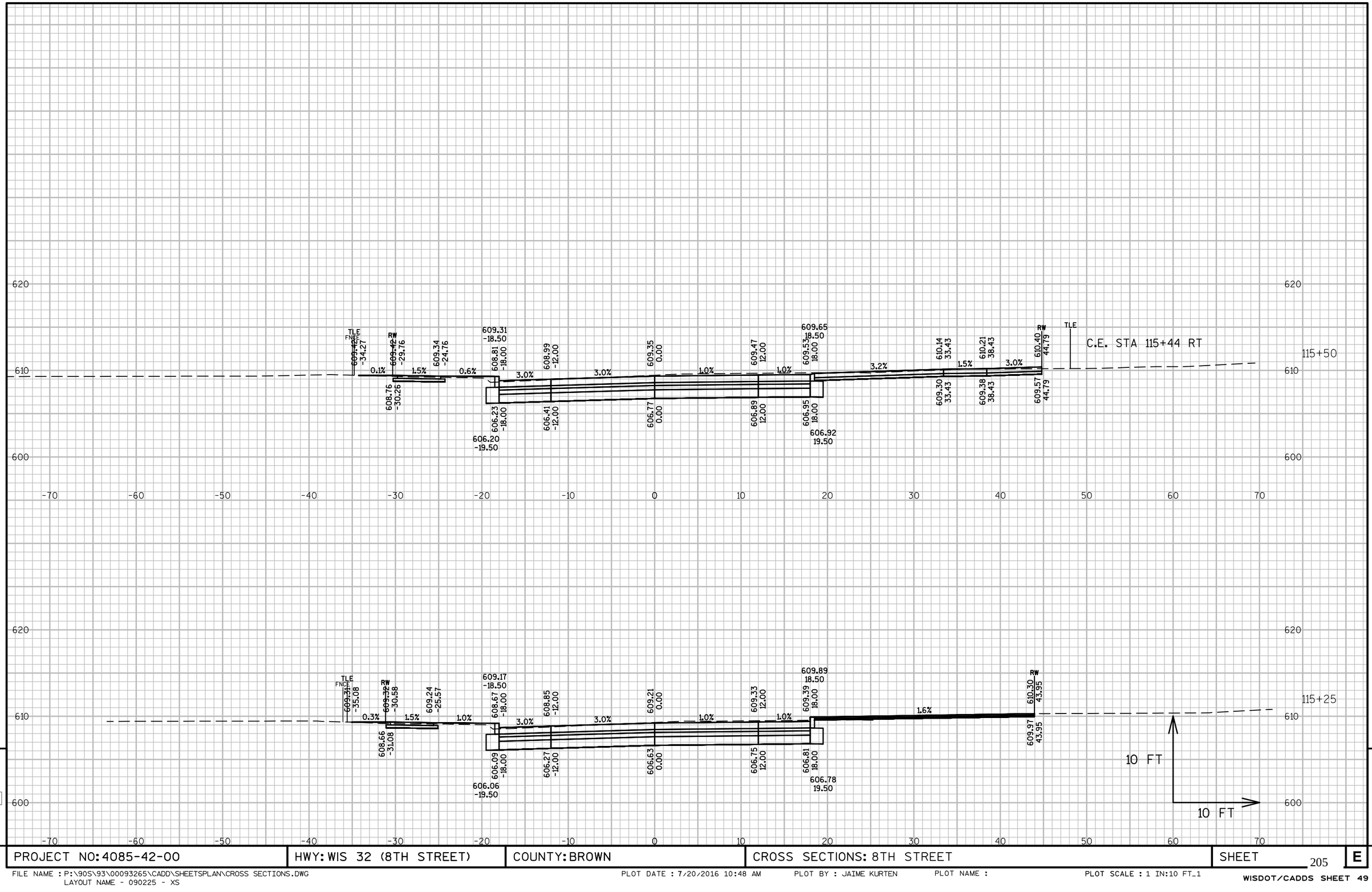


PROJECT NO: 4085-42-00	HWY: WIS 32 (8TH STREET)	COUNTY: BROWN	CROSS SECTIONS: 8TH STREET	SHEET 204	E

FILE NAME : P:\90S\93\00093265\CADD\SHEETSPLAN\CROSS SECTIONS.DWG
LAYOUT NAME - 090224 - XS

PLOT DATE : 7/20/2016 10:47 AM PLOT BY : JAIME KURTEN PLOT NAME : PLOT SCALE : 1 IN:10 FT_1

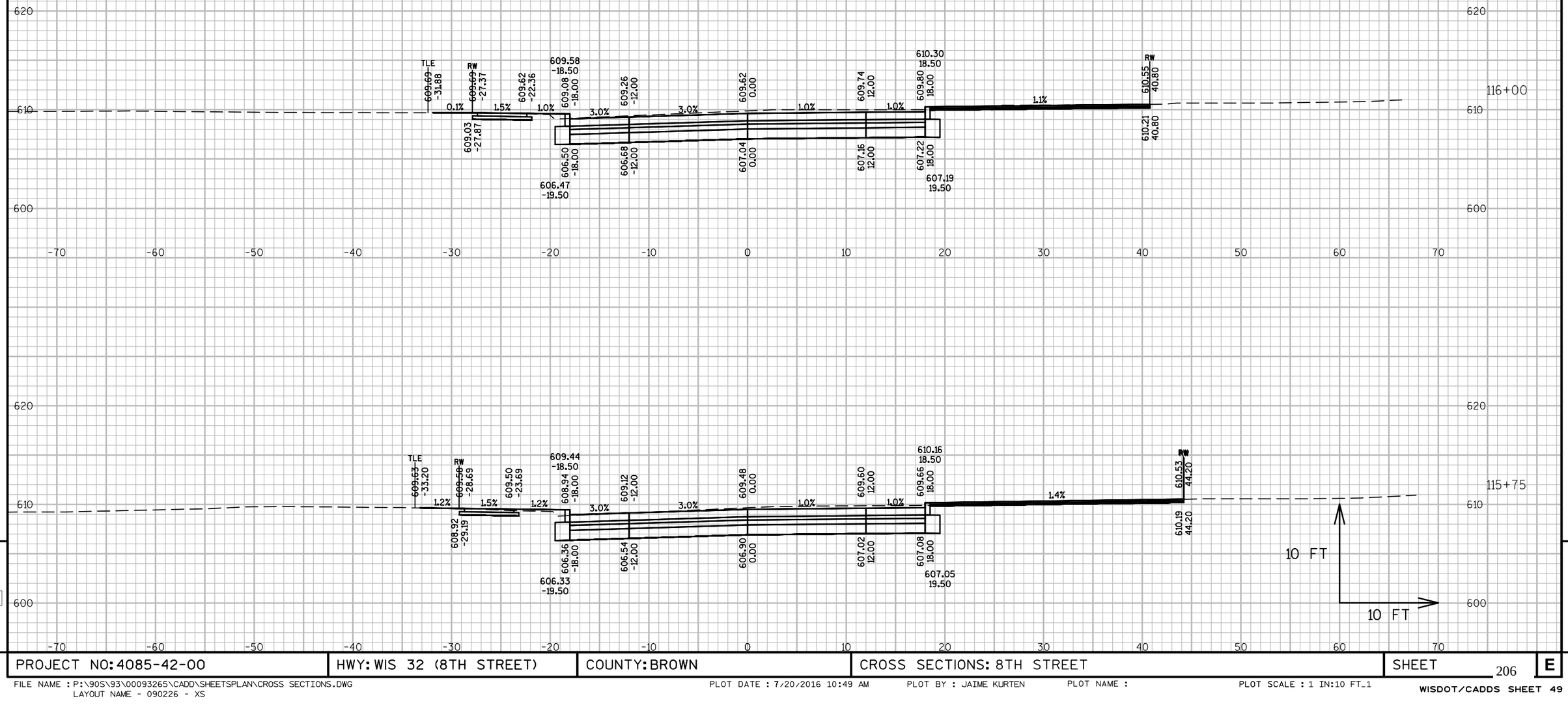
WISDOT/CADDS SHEET 49



PROJECT NO: 4085-42-00	HWY: WIS 32 (8TH STREET)	COUNTY: BROWN	CROSS SECTIONS: 8TH STREET	SHEET 205	E

FILE NAME : P:\90S\93\00093265\CADD\SHEETSPLAN\CROSS SECTIONS.DWG
LAYOUT NAME - 090225 - XS

PLOT DATE : 7/20/2016 10:48 AM PLOT BY : JAIME KURTEN PLOT NAME : PLOT SCALE : 1 IN:10 FT_1

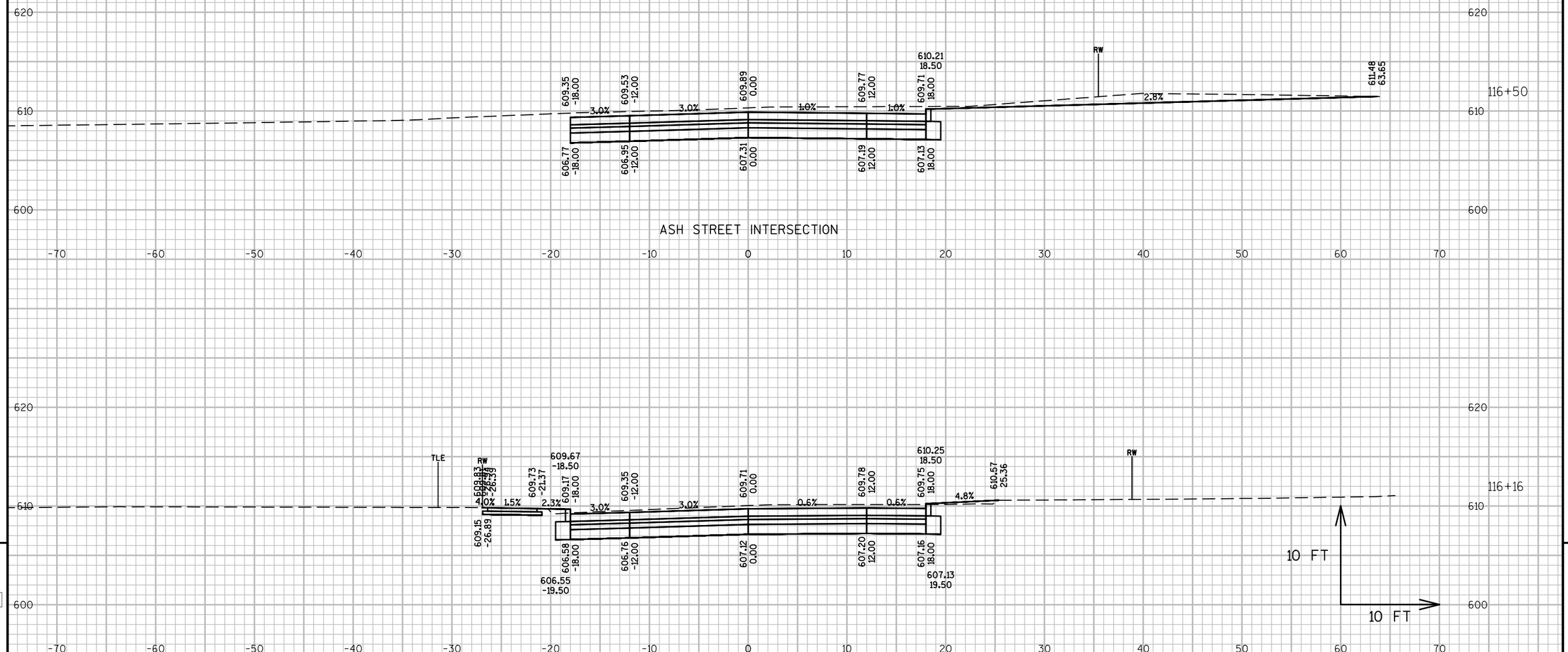


PROJECT NO: 4085-42-00	HWY: WIS 32 (8TH STREET)	COUNTY: BROWN	CROSS SECTIONS: 8TH STREET	SHEET 206	E

FILE NAME : P:\90S\93\00093265\CADD\SHEETSPLAN\CROSS SECTIONS.DWG
LAYOUT NAME - 090226 - XS

PLOT DATE : 7/20/2016 10:49 AM PLOT BY : JAIME KURTEN PLOT NAME : PLOT SCALE : 1 IN:10 FT_1

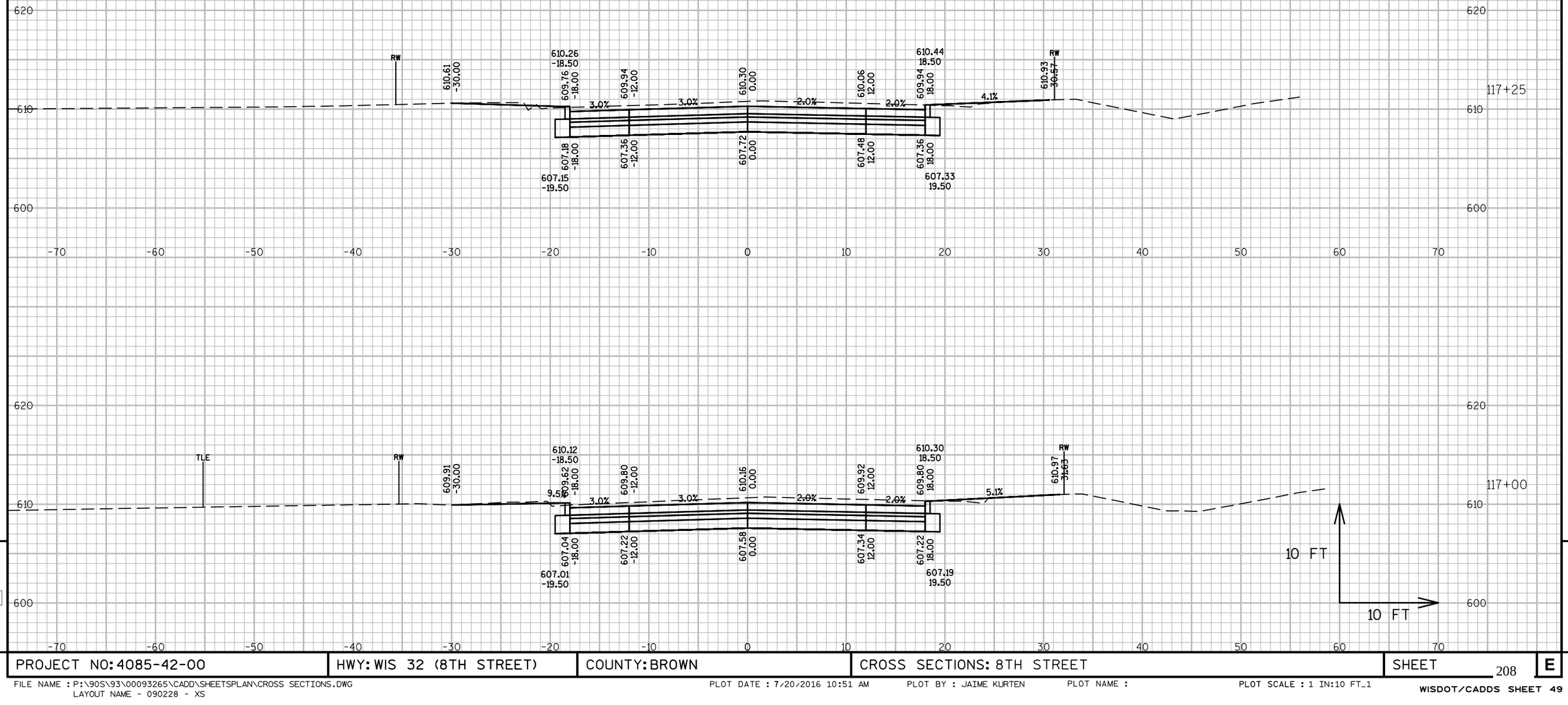
WISDOT/CADDS SHEET 49



PROJECT NO: 4085-42-00	HWY: WIS 32 (8TH STREET)	COUNTY: BROWN	CROSS SECTIONS: 8TH STREET	SHEET 207	E

FILE NAME : P:\90S\93\00093265\CADD\SHEETSPLAN\CROSS SECTIONS.DWG
LAYOUT NAME - 090227 - XS

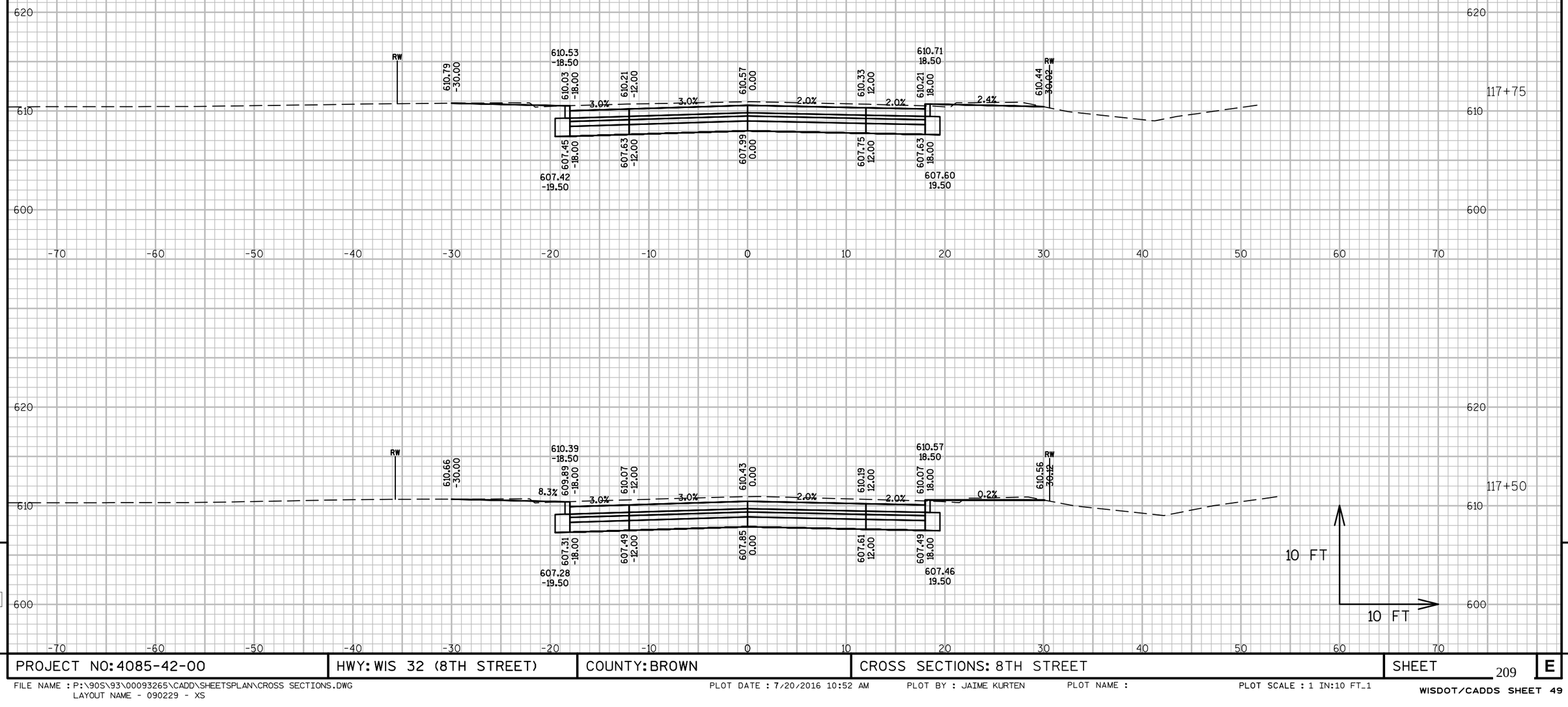
PLOT DATE : 7/20/2016 10:50 AM PLOT BY : JAIME KURTEN PLOT NAME : PLOT SCALE : 1 IN:10 FT_1



PROJECT NO: 4085-42-00	HWY: WIS 32 (8TH STREET)	COUNTY: BROWN	CROSS SECTIONS: 8TH STREET	SHEET 208	E

FILE NAME : P:\90S\93\00093265\CADD\SHEETSPLAN\CROSS SECTIONS.DWG
LAYOUT NAME - 090228 - XS

PLOT DATE : 7/20/2016 10:51 AM PLOT BY : JAIME KURTEN PLOT NAME : PLOT SCALE : 1 IN:10 FT_1

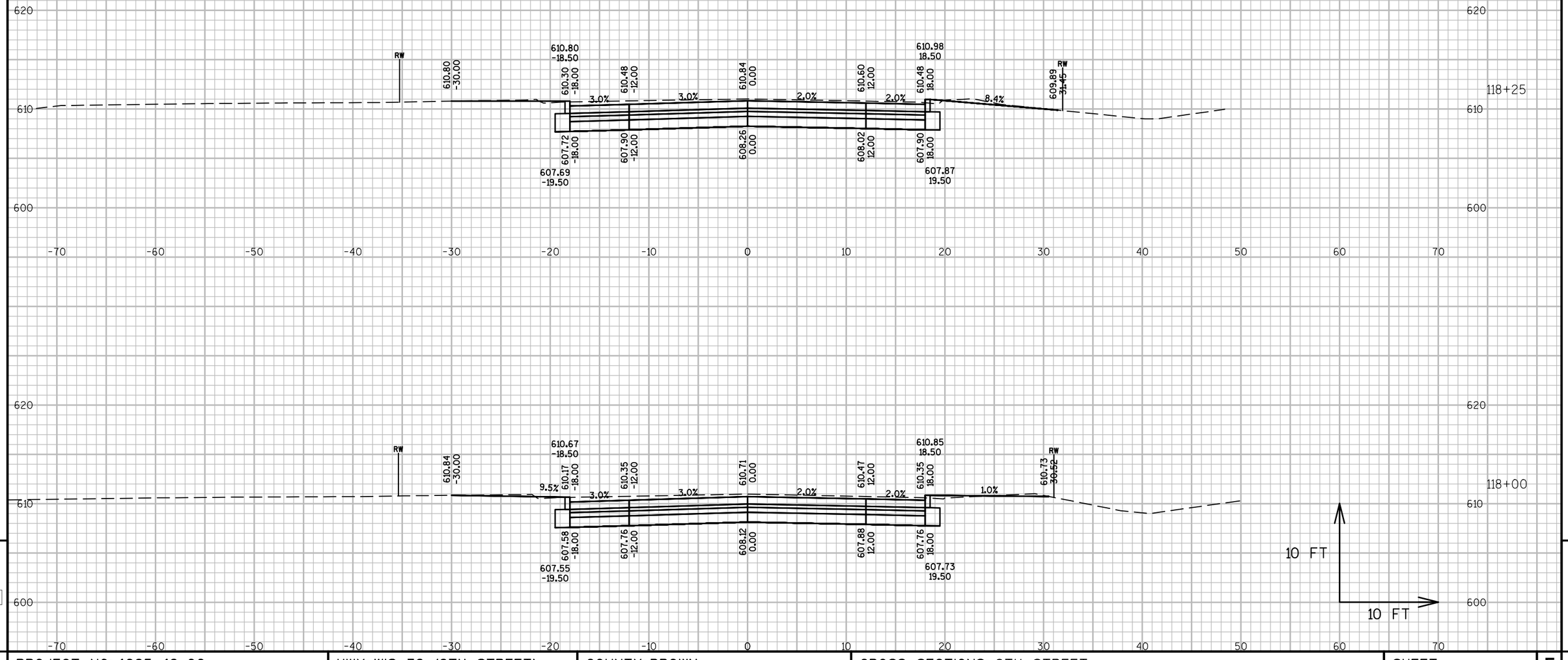


PROJECT NO: 4085-42-00	HWY: WIS 32 (8TH STREET)	COUNTY: BROWN	CROSS SECTIONS: 8TH STREET	SHEET 209	E

FILE NAME : P:\90S\93\00093265\CADD\SHEETSPLAN\CROSS SECTIONS.DWG
LAYOUT NAME - 090229 - XS

PLOT DATE : 7/20/2016 10:52 AM PLOT BY : JAIME KURTEN PLOT NAME : PLOT SCALE : 1 IN:10 FT_1

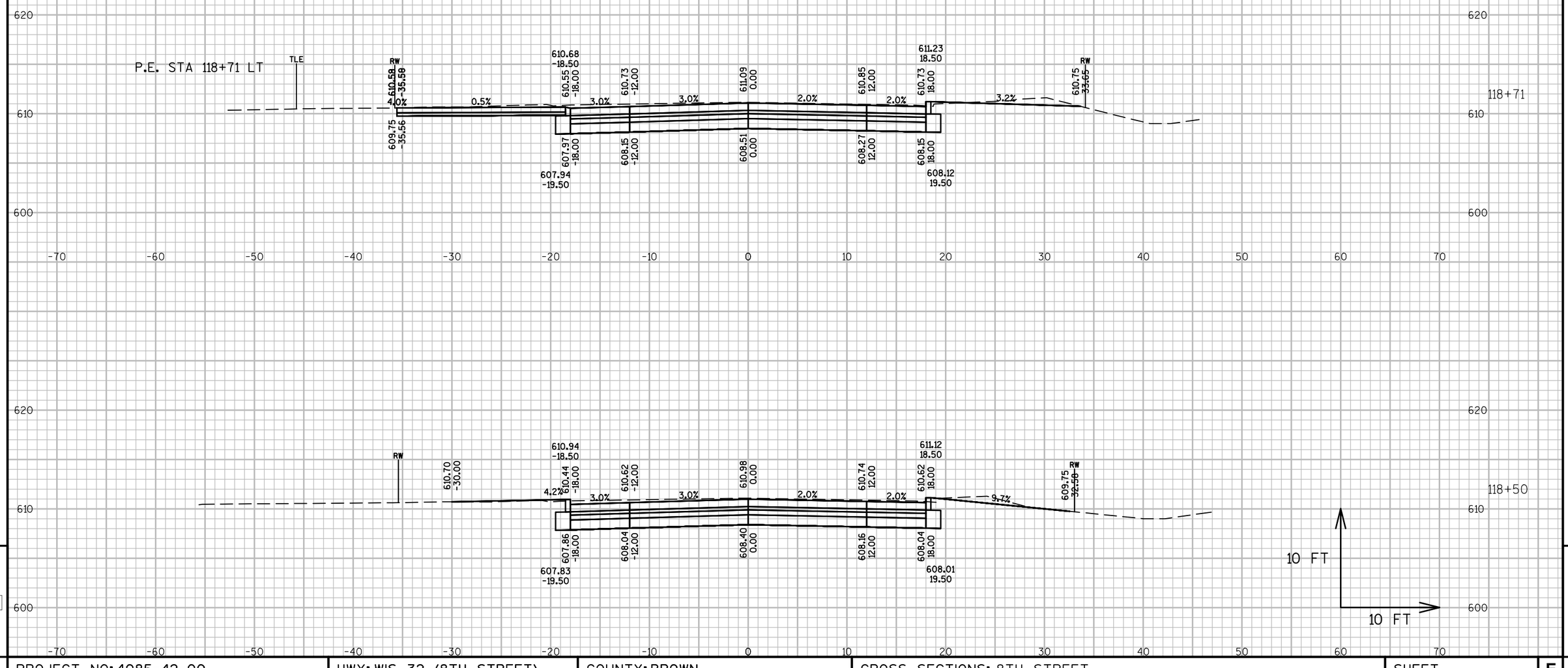
WISDOT/CADDS SHEET 49



PROJECT NO: 4085-42-00	HWY: WIS 32 (8TH STREET)	COUNTY: BROWN	CROSS SECTIONS: 8TH STREET	SHEET 210	E

FILE NAME : P:\90S\93\00093265\CADD\SHEETSPLAN\CROSS SECTIONS.DWG
LAYOUT NAME - 090230 - XS

PLOT DATE : 7/20/2016 10:53 AM PLOT BY : JAIME KURTEN PLOT NAME : PLOT SCALE : 1 IN:10 FT_1

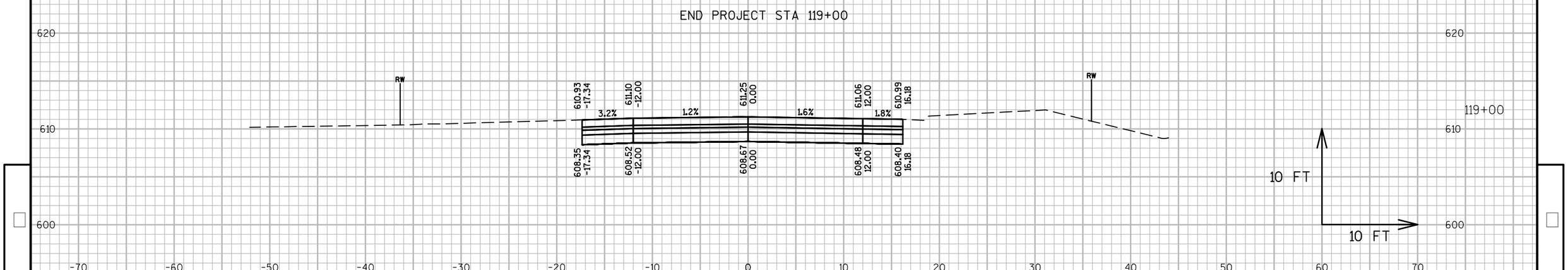


PROJECT NO: 4085-42-00	HWY: WIS 32 (8TH STREET)	COUNTY: BROWN	CROSS SECTIONS: 8TH STREET	SHEET 211	E

FILE NAME : P:\90S\93\00093265\CADD\SHEETSPLAN\CROSS SECTIONS.DWG
LAYOUT NAME - 090231 - XS

PLOT DATE : 7/20/2016 10:54 AM PLOT BY : JAIME KURTEN PLOT NAME : PLOT SCALE : 1 IN:10 FT_1

END PROJECT STA 119+00



PROJECT NO: 4085-42-00	HWY: WIS 32 (8TH STREET)	COUNTY: BROWN	CROSS SECTIONS: 8TH STREET	SHEET 212	E

FILE NAME : P:\90S\93\00093265\CADD\SHEETSPLAN\CROSS SECTIONS.DWG
LAYOUT NAME - 090232 - XS

PLOT DATE : 7/20/2016 10:54 AM PLOT BY : JAIME KURTEN PLOT NAME : PLOT SCALE : 1 IN:10 FT_1

Notes

Wisconsin Department of Transportation

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