





















































MIDWEST NETWORKS DEVELOPMENT LLC.
MND VZW LA CROSSE - SE02
#2108012
LA CROSSE, WI 54601
LA CROSSE COUNTY
JANUARY 3, 2022

SYMBOLS

	2 x 1.25" HDPE SDR11		Innerducts / Tracer Wire
	Storage Mark		House / Building
	Splice		Existing Handhole
	Storage Loop		Existing Manhole
	Proposed Handhole		Power Pole
	Proposed Anc/Dn Guy		Water Valve / Meter
	Bond to Ground		Tel Pole
	Grounded		Gas Valve / Meter
	Fiber Locate Marker Post		Transmission Pole
	Buried Cable Marker		Hydrant
	New Aerial Fiber Cable		Sign
	New Underground Fiber Cable		Mailbox
	Township Line		Street/Traffic Light
	City Limits		Tel Ped
	R/W Line		TV Ped
	River/Stream		Ele Ped/Transformer
	C/L Road		
	RR Tracks		
	Fence		
	Oil Pipeline		
	Gas Pipeline		
	Water Line		
	Son. Sewer		
	Storm Sewer		
	Exis UG		
	Telephone		
	Exis CATV		
	Fiber Optic		
	Black Iron Pipe		
	Galvanized Iron Pipe		

MWFN CONTACT INFO	
OSP ENGINEER:	RICHARD TRGOVEC 414-226-2205
EMERGENCY NOTIFICATION NUMBER:	1-866-831-1661



CALL : (414) 259-1181
OR
TOLL FREE (800) 242-8511
www.diggershotline.com

DRAWING DISCLAIMER
Facility locations are general in nature. MWFN will not be held accountable for the accuracy of the information provided on these drawings.

PRELIMINARY

REVISIONS			
REV. NO.	DESCRIPTION	BY	DATE

CABLE FIBER COUNT:	CABLE DESCRIPTION
CABLE REEL NO. REEL #	
SPLICE TO SPLICE CABLE LENGTH:	
INNERDUCT & TYPE: HDPE	
STEEL PIPE SIZE:	
PVC PIPE SIZE: 1.25"	
	PIPE & INNERDUCT PLACEMENT



Midwest Networks Development LLC
414.672.5612
6070 N Flint Rd
Glendale, WI 53209

2108012
MND VZW LA CROSSE
LA CROSSE, WI

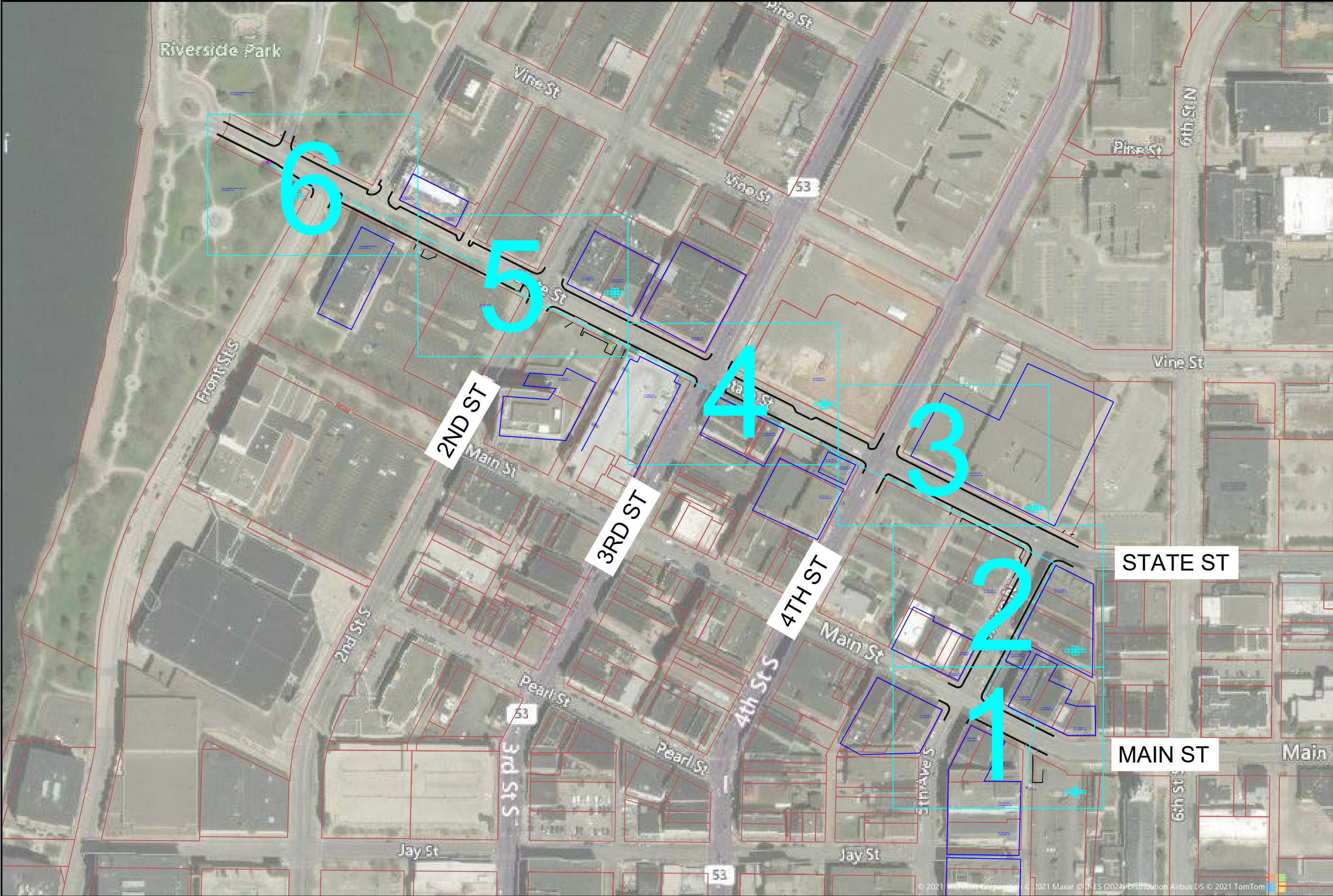
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CHECKED BY :	DATE :
APPROVED BY :	DATE :
APPROVED BY :	DATE :

HORIZONTAL SCALE (DWG & PROF) :
VERTICAL SCALE (DWG) :
VERTICAL SCALE (PROF) :

MAP PROJECTION :	
DRAWING NUMBER :	COVER



County: LA CROSSE	Township:	MUNICIPALITY LA CROSSE	Section: 31 & 32	Town: 16N	Range: 7W
-------------------	-----------	------------------------	------------------	-----------	-----------



SYMBOLS	
	Innerducts / Tracer Wire
	House / Building
	Existing Handhole
	Existing Manhole
	Power Pole
	Water Valve / Meter
	Tel Pole
	Gas Valve / Meter
	Transmission Pole
	Hydrant
	Sign
	Mailbox
	Street/Traffic Light
	Tel Ped
	TV Ped
	Ele Ped/Transformer
	Deciduous Tree
	Evergreen Tree

MWFN CONTACT INFO
OSP ENGINEER: RICHARD TRGOVEC
414-226-2205
EMERGENCY NOTIFICATION NUMBER: 1-866-831-1661

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PRELIMINARY

REVISIONS			
REV. NO.	DESCRIPTION	BY	DATE

CABLE FIBER COUNT:	CABLE DESCRIPTION
CABLE REEL NO. REEL #	
SPlice TO SPlice CABLE LENGTH:	
INNERDUCT & TYPE: HDPE	PIPE & INNERDUCT PLACEMENT
STEEL PIPE SIZE:	
PVC PIPE SIZE: 1.25"	

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414.672.5612
6070 N Flint Rd
Glendale, WI 53209

2108012
MND VZW LA CROSSE
LA CROSSE, WI

DRAWN BY : NORTHWIND TECH	DATE :1/3/22
CHECKED BY :	DATE :
APPROVED BY :	DATE :
APPROVED BY :	DATE :

HORIZONTAL SCALE (DWG & PROF) :
VERTICAL SCALE (DWG) :
VERTICAL SCALE (PROF) :

MAP PROJECTION :
DRAWING NUMBER : OVERVIEW



EXISTING GRADE

6" TOPSOIL

AS SPECIFIED

COMPACT BACKFILLS IN 6" LAYERS WITH ROCK FREE MATERIAL

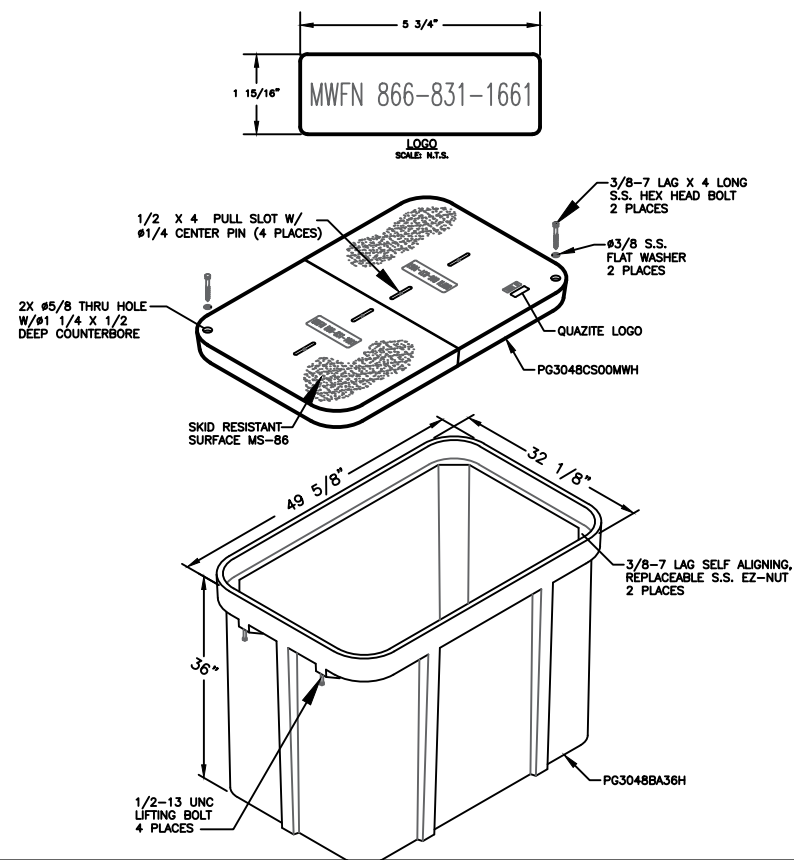
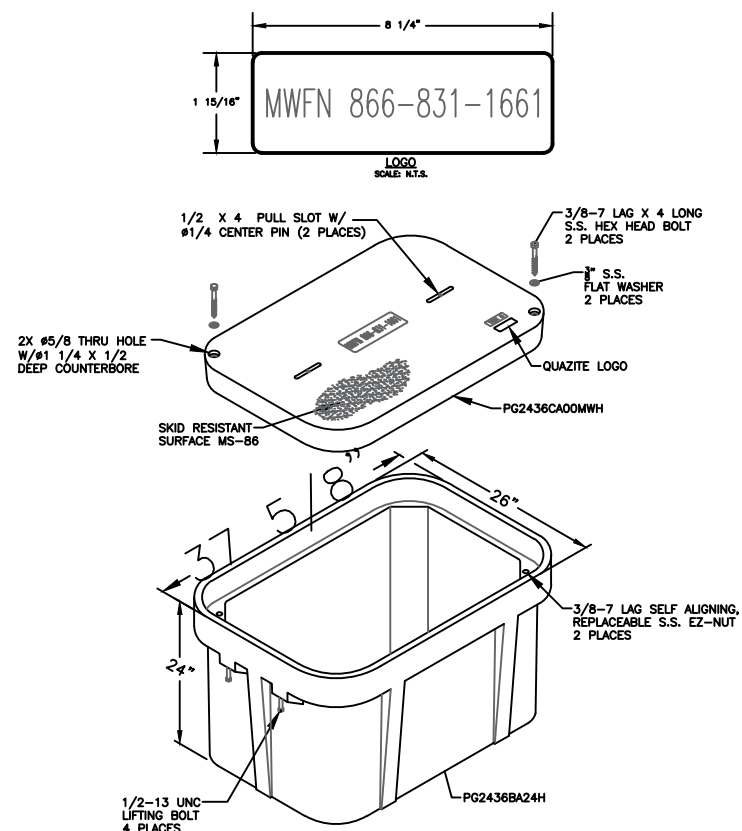
6" MIN

ENCASED IN CLEAN SAND 6" MIN AT TOP AND 3" MIN AT BOTTOM AND SIDES



















































CONDUIT(S) AS SPECIFIED

3" MIN

3" MIN



SYMBOLS

	2 x 1.25" HDPE SDR11		Innerducts / Tracer Wire
	Station Mark		House / Building
	Splice		Existing Handhole
	Storage Loop		Existing Manhole
	Proposed Handhole		Power Pole
	Proposed Anc/Dn Guy		Water Valve / Meter
	Bond to Ground		Tei Pole
	Grounded		Gas Valve / Meter
	Fiber Locate Marker Post		Transmission Pole
	Buried Cable Marker		Hydrant
	New Aerial Fiber Cable		Sign
	New Underground Fiber Cable		Mailbox
	Township Line		Street/Traffic Light
	City Limits		Tei Ped
	R/W Line		TV Ped
	River/Stream		Ele Ped/Transformer
	C/L Road		
	RR Tracks		Deciduous Tree
	Fence		Evergreen Tree
	Oil Pipeline		
	Gas Pipeline		
	Water Line		Exis City Comm Line
	Son. Sewer		Exis Tele
	Storm Sewer		Exis Aerial Fiber Cable
	Exis UG Telephone		Exis UG Fiber Cable
	Exis CATV		Exis UG Power Line
	FiberOptic		

B.I.P.
G.I.P.

Black Iron Pipe
Galvanized Iron Pipe

OSP ENGINEER: RICHARD TRGOVEC
414-226-2205

EMERGENCY NOTIFICATION
NUMBER: 1-866-831-1661

DIGGERS HOTLINE

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PRELIMINARY

REVISIONS			
REV. NO.	DESCRIPTION	BY	DATE

CABLE FIBER COUNT:	CABLE DESCRIPTION
CABLE REEL NO. REEL #	
SPLICE TO SPLICE CABLE LENGTH:	
INNERDUCT & TYPE: HDPE	PIPE & INNERDUCT PLACEMENT
STEEL PIPE SIZE:	
PVC PIPE SIZE: 1.25"	



Midwest Networks Development LLC

414.672.5612
6070 N Flint Rd
Glendale, WI 53209

2108012
MND VZW LA CROSSE
LA CROSSE, WI

DRAWN BY : NORTHWIND TECH	DATE : 1/3/22
CHECKED BY :	DATE :
APPROVED BY :	DATE :
APPROVED BY :	DATE :

HORIZONTAL SCALE (DWG & PROF) :

VERTICAL SCALE (DWG) :
VERTICAL SCALE (PROF) :

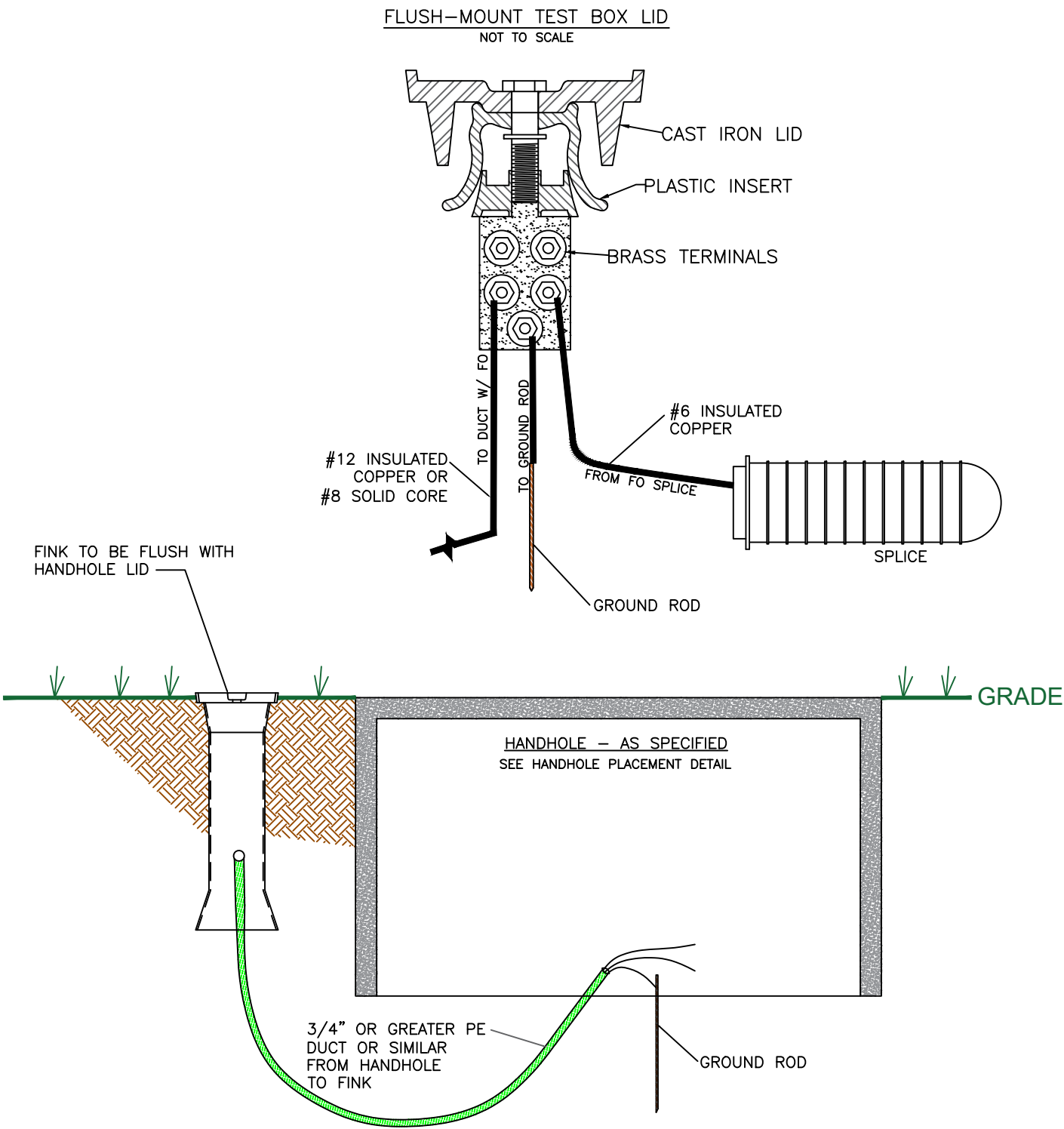
VERTICAL SCALE (PROF) :

MAP PROJECTION :

DRAWING NUMBER : DETAILS



FLUSH MOUNT TEST STATION - FINK- DETAIL



TRACER/LOCATE WIRE PLACEMENT REQUIREMENTS -
UNLESS OTHERWISE SPECIFIED ON THE PRINTS

FOR ALL HANDHOLES INSTALLED WITH A FINK, THE FOLLOWING IS REQUIRED:
(1) TRACER/LOCATE WIRE PER EACH FIBER AND/OR CONDUIT PATH LEAVING HANDHOLE. MULTIPLE FIBERS IN ONE SINGLE CONDUIT ONLY REQUIRE ONE MEANS OF LOCATING. MULTIPLE CONDUITS INSTALLED TOGETHER ALONG THE SAME PATH ONLY REQUIRE ONE MEANS OF LOCATING.
(1) ONE GROUND WIRE

TRACER/LOCATE WIRE SPECIFICATIONS REQUIREMENTS -
UNLESS OTHERWISE SPECIFIED ON THE PRINTS

GROUND WIRE
(1) #6 AWG INSULATED WIRE, LABELED WITH BLACK ELECTRIC TAPE ON EACH END. USE APPROPRIATE RING TERMINAL CONNECTOR FOR #6 AWG WIRE AND CONNECT TO CENTER TERMINAL OF FINK. STRIP AND CONNECT OPPOSITE END IN HANDHOLE TO 6' COPPER GROUND ROD.

ARMORED FIBER LOCATE WIRE (SPLICE LOCATIONS)
#6 AWG INSULATED WIRE FOR EACH ARMORED FIBER PRESENT OR TO BE INSTALLED IN THE SPLICE CASE. USE APPROPRIATE RING TERMINAL CONNECTOR FOR #6 AWG WIRE AND CONNECT WIRE IN FINK TO OUTER TERMINALS OF FINK. INSIDE HANDHOLE, USE APPROPRIATE RING TERMINAL CONNECTOR FOR #6 AWG WIRE AND CONNECT TO SPLICE CASE TERMINAL.

-IN THE EVENT THE SPLICE CASE IS NOT PRESENT AT THE TIME OF LOCATE WIRE & FINK INSTALLATION, LEAVE (1) 10' COIL OF #6 AWG WIRE (PER EACH ARMORED FIBER), IN HANDHOLE FOR CONNECTION TO THE SPLICE ONCE INSTALLED.

#8 AWG SOLID CORE TRACER WIRE (AS SPECIFIED ON PRINTS)
FOR EACH CONDUIT PATH THAT IS PRESENT IN A HANDHOLE AND WAS INSTALLED WITH #8 AWG SOLID CORE TRACER WIRE OUTSIDE OF THE CONDUITS, A MINIMUM OF 5' OF #8 AWG SOLID CORE TRACER IS TO BE LEFT AT THE HANDHOLE LOCATION. #8 AWG SOLID CORE TRACER WIRES CAN BE CONNECTED WITH WATERPROOF CONNECTORS TO #6-#12 AWG STRANDED WIRE FOR INSTALLATION INTO FINK. UPON INSTALLATION OF THE FINK, ALL WIRES ARE TO BE CONNECTED TO TERMINALS IN THE LOCATE POST WITH APPROPRIATE RING TERMINAL CONNECTORS.

#12 AWG TRACER WIRE (AS SPECIFIED ON PRINTS)
FOR EACH FIBER OR EMPTY CONDUIT PATH THAT IS PRESENT IN A HANDHOLE AND WAS INSTALLED WITH #12 AWG TRACER WIRE INSIDE OF THE CONDUIT, A MINIMUM OF 10' COIL OF #12 AWG TRACER WIRE IS TO BE LEFT AT THE HANDHOLE LOCATION. UPON INSTALLATION OF THE FINK, ALL #12 AWG TRACER WIRES ARE TO BE CONNECTED TO TERMINALS IN THE FINK WITH APPROPRIATE RING TERMINAL CONNECTORS.

FINK PLACEMENT
FINK TO BE PLACED ALONG LONG EDGE OF HANDHOLE, AT MIDDLE OF HANDHOLE. LOCATE POST PLACEMENT MUST BE WITHIN 6" OF THE SIDE OF THE HANDHOLE. FINKS ARE NOT TO BE PLACED ON THE SHORT ENDS OF THE HANDHOLE.

SYMBOLS	
2 x 1.25" HDPE SDR11	Innerducts / Tracer Wire
0+00	Station Mark
Splice	House / Building
100'	Storage Loop
Proposed Handhole	Existing Handhole
Proposed Anc/Dn Guy	Existing Manhole
Bond to Ground	Power Pole
Grounded	Water Valve / Meter
Fiber Locate Marker Post	Tel Pole
Buried Cable Marker	Gas Valve / Meter
New Aerial Fiber Cable	Transmission Pole
New Underground Fiber Cable	Hydrant
Township Line	Sign
City Limits	Mailbox
R/W Line	Street/Traffic Light
River/Stream	Tel Ped
C/L Road	TV Ped
RR Tracks	Ele Ped/Transformer
Fence	Deciduous Tree
Oil Pipeline	Evergreen Tree
Gas Pipeline	Exis City Comm Line
Water Line	Exis Tele
San. Sewer	Exis Aerial Fiber Cable
Exis UG Storm Sewer	Exis UG Fiber Cable
Exis UG Telephone	Exis UG Power Line
Exis CATV	
Exis FiberOptic	
B.I.P.	Black Iron Pipe
G.I.P.	Galvanized Iron Pipe

MWFN CONTACT INFO	
OSP ENGINEER:	RICHARD TRGOVEC
	414-226-2205
EMERGENCY NOTIFICATION NUMBER:	1-866-831-1661

DIGGERSHOTLINE

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PRELIMINARY

REVISIONS			
REV. NO.	DESCRIPTION	BY	DATE
CABLE FIBER COUNT:		CABLE DESCRIPTION	
CABLE REEL NO.	REEL #		
SPLICE TO SPLICE CABLE LENGTH:			
INNERDUCT & TYPE: HDPE		PIPE & INNERDUCT PLACEMENT	
STEEL PIPE SIZE:			
PVC PIPE SIZE: 1.25"			

Midwest Networks Development LLC

414.672.5612
6070 N Flint Rd
Glendale, WI 53209

2108012
MND VZW LA CROSSE
LA CROSSE, WI

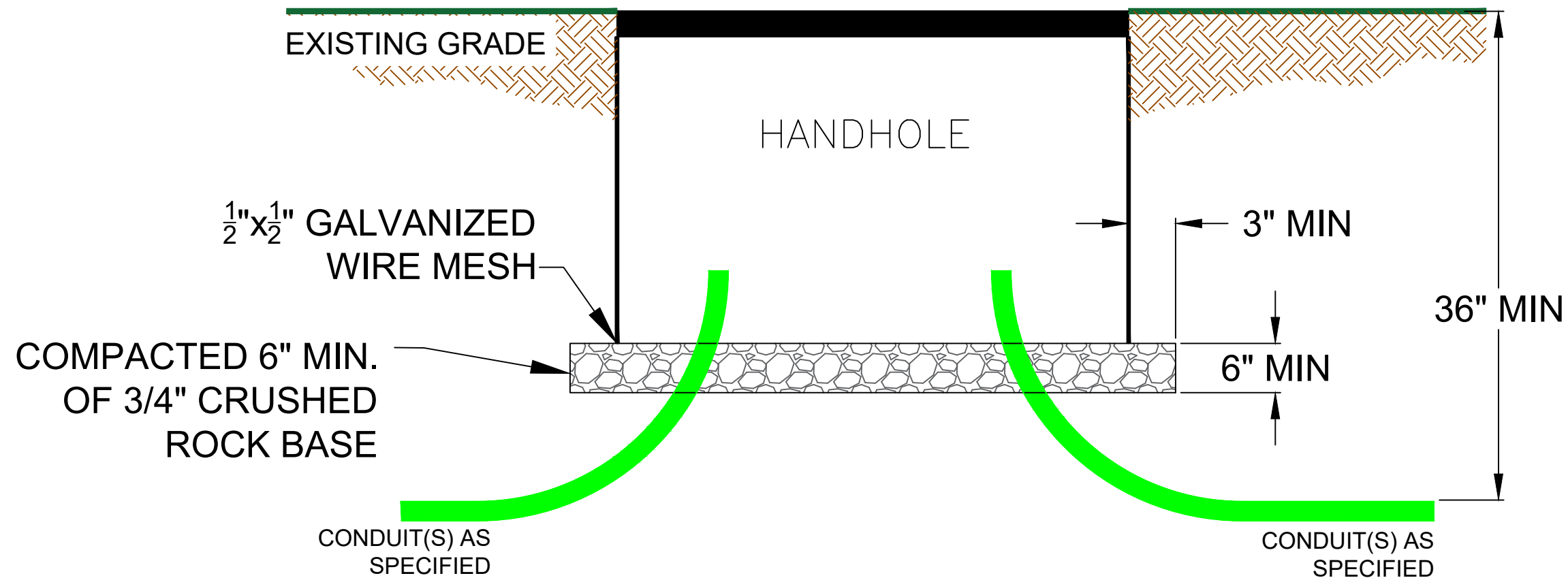
DRAWN BY : NORTHWIND TECH	DATE :1/3/22
CHECKED BY :	DATE :
APPROVED BY :	DATE :
APPROVED BY :	DATE :

HORIZONTAL SCALE (DWG & PROF) :
VERTICAL SCALE (DWG) :
VERTICAL SCALE (PROF) :

MAP PROJECTION :
DRAWING NUMBER : DETAILS 2

HANDHOLE INSTALLATION

NOT TO SCALE - HANDHOLE SIZE SPECIFIED ON PRINT



EXCAVATE THE EARTH A MINIMUM OF "6 DEEPER THAN THE DEPTH OF THE FULL HANDHOLE. INSTALL MINIMUM OF 6" OF $\frac{3}{4}$ " CRUSHED ROCK BASE MATERIAL THAT EXTENDS A MIN. OF 3" BEYOND THE OUTSIDE OF THE HANDHOLE BASE AND COMPACT. FIT AND PLACE WIRE MESH EXTENDING MIN. 3" OUTSIDE OF HANDHOLE BASE. CONDUIT THAT SWEEPS INTO THE HANDHOLE MUST ENTER THE HANDHOLE FLUSH & LEVEL WITH BOTTOM OF HANDHOLE TO AVOID FIBER MICRO BENDING. WHEN ENTERING A SHALLOW HANDHOLE, THE CHANGE IN ELEVATION OF THE CONDUIT RUN OUTSIDE OF THE HANDHOLE SHOULD BE KEPT AS SHORT AS POSSIBLE IN ORDER TO MAINTAIN REQUIRED DEPTH OF COVER. CONDUITS ENDS ENTERING HANDHOLE MUST HAVE MIN. 4" & MAX. 6" EXPOSED AND ACCESSIBLE FOR PLACING PLUGS, COUPLING, & BLOWING. INSTALL 6' GROUND ROD WITH 8" MAX. REMAINING ABOVE BOTTOM GRAVEL OF HANDHOLE. INSTALL GROUND ROD WITHIN 4" OF HANDHOLE CORNER. PLACE COVER ON HANDHOLE, BACKFILL AND COMPACT. RESTORE UPON COMPLETION.

SYMBOLS	
2 x 1.25" HDPE SDR11	Innerducts / Tracer Wire
0+00	Station Mark
Splice	House / Building
100'	Storage Loop
Proposed Handhole	Existing Handhole
Proposed Anc/Dn Guy	Existing Manhole
Bond to Ground	Power Pole
Grounded	Water Valve / Meter
Fiber Locate Marker Post	Tel Pole
Buried Cable Marker	Gas Valve / Meter
New Aerial Fiber Cable	Transmission Pole
New Underground Fiber Cable	Hydrant
Township Line	Sign
City Limits	Mailbox
R/W Line	Street/Traffic Light
River/Stream	Tel Ped
C/L Road	TV Ped
RR Tracks	Ele Ped/Transformer
Fence	Deciduous Tree
Oil Pipeline	Evergreen Tree
Gas Pipeline	Exis City Comm Line
Water Line	Exis Tele
San. Sewer	Exis Aerial Fiber Cable
Storm Sewer	Exis UG Fiber Cable
Exis UG Telephone	Exis UG Power Line
Exis CATV	
Exis FiberOptic	
B.I.P.	Black Iron Pipe
G.I.P.	Galvanized Iron Pipe

MWFN CONTACT INFO	
OSP ENGINEER:	RICHARD TRGOVEC 414-226-2205
EMERGENCY NOTIFICATION NUMBER:	1-866-831-1661

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PRELIMINARY

REVISIONS			
REV. NO.	DESCRIPTION	BY	DATE
CABLE FIBER COUNT:		CABLE DESCRIPTION	
CABLE REEL NO.	REEL #		
SPICE TO SPICE CABLE LENGTH:			
INNERDUCT & TYPE: HDPE		PIPE & INNERDUCT PLACEMENT	
STEEL PIPE SIZE:			
PVC PIPE SIZE: 1.25"			

Midwest Networks Development LLC
414.672.5612
6070 N Flint Rd
Glendale, WI 53209

2108012	
MND VZW LA CROSSE LA CROSSE, WI	
DRAWN BY : NORTHWIND TECH	DATE :1/3/22
CHECKED BY :	DATE :
APPROVED BY :	DATE :
APPROVED BY :	DATE :
HORIZONTAL SCALE (DWG & PROF) :	
VERTICAL SCALE (DWG) :	
VERTICAL SCALE (PROF) :	
MAP PROJECTION :	
DRAWING NUMBER :	DETAILS 3

County: LA CROSSE	Township:	MUNICIPALITY LA CROSSE	Section: 31 & 32	Town: 16N	Range: 7W
-------------------	-----------	------------------------	------------------	-----------	-----------

MWFN/MND Redlines/Field Asbuilt Guidelines

RETAINAGE PAYMENT WILL NOT BE MADE UNTIL REDLINES HAVE BEEN TURNED IN AND REVIEWED BY MWFN/MND. REDLINES WILL NOT BE ACCEPTED IF IN PENCIL.

Only **one as-built print shall be submitted per construction print** with the following requirements. The print set given to Cable Com is the print set that is required to be returned to MWFN, all pages, title, BOM, OSP and ISP.

For Aerial Construction:

- Aerial attachment heights at each pole must be provided if different from construction plan set.
- Any extension arms added or deleted need to be noted if different from construction plan set.
- Pole numbers need to be identified if different than proposed on prints. If pole numbers/tags are not indicated on poles NT may be substituted.
- All railroad, roadways and freeways will have the mid span height indicated at its lowest point for the aerial crossings, cable and overhead guys, and current temperature.
- Note locations of locates pucks, riser quadrant locations, down guy sizes, and anchor sizes location if different than prints.
- Cable footages (sequential) are required at the following locations; top of risers, all pole attachment locations, splice enclosures as the cable enter/exits and in and out of all storage loops.

For Underground Construction:

- Running lines need to indicate the offset distance to the nearest foot from a permanent structure every 50’ for bore installations and every 250’ for plow installations. Only the following permanent structures will be excepted; EOP – edge of pavement, BOC – back of curb, FOC – front of curb, CL – road center line, RW – right-of-way marker or post. All prints for as-builts will clearly show any deviation from proposed running line and state the reason for the deviation.
- Depth of installations must be provided at each noted permanent structure offset to the nearest inch and at every location that breaches minimum depth requirement. Example - 12’ EOP38”D.
- All conduit coupler locations (CPL / tie-in’s) must be identified along with depth and offset. Example - CPL 10’ EOP 37”D.
- Size, number and type of conduit must be identified if different than proposed on the construction prints.
- All hand hole (HH) and manhole (MH) locations must have Global Positioning System (GPS) coordinates provided. Distances from permanent structures to front face of HH or MH must be provided. Size of HH or MH’s must be identified if different than proposed on prints.
- All locate posts (above grade or flush mount) and marker posts must be identified and called out if different than proposed on prints.
- All fiber splice locations shall be identified along with the nearest address (IE. 1500 feet East of 1234 Main Street, Any Town USA).
- Cable footages (sequential) are required at the following locations; in & out of manholes and/or hand holes, splice enclosures as the cable enter/exits and in and out of all storage loops.

2 x 1.25" HDPE SDR11

Innerducts / Tracer Wire

0+00

Station Mark

100'

Storage Loop

Proposed Handhole

Proposed Anc/Dn Guy

Bond to Ground

Grounded

Fiber Locate Marker Post

Buried Cable Marker

New Aerial Fiber Cable

New Underground Fiber Cable

Township Line

City Limits

R/W Line

River/Stream

C/L Road

RR Tracks

Fence

Oil Pipeline

Gas Pipeline

Water Line

San. Sewer

Storm Sewer

Exis UG

Telephone

Exis CATV

Exis FiberOptic

B.I.P.

G.I.P.

House / Building

Existing Handhole

Existing Manhole

Power Pole

Water Valve / Meter

Tel Pole

Gas Valve / Meter

Transmission Pole

Hydrant

Sign

Mailbox

Street/Traffic Light

Tel Ped

TV Ped

Ele Ped/Transformer

Deciduous Tree

Evergreen Tree

Exis City Comm Line

Exis Tele

Exis Aerial Fiber Cable

Exis UG Fiber Cable

Exis UG Power Line

Block Iron Pipe

Galvanized Iron Pipe

MWFN CONTACT INFO

OSP ENGINEER: RICHARD TRGOVEC
414-226-2205

EMERGENCY NOTIFICATION NUMBER: 1-866-831-1661

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PRELIMINARY

REVISIONS

REV. NO.	DESCRIPTION	BY	DATE

CABLE FIBER COUNT:

CABLE REEL NO. REEL #

SPLICE TO SPLICE CABLE LENGTH:

INNERDUCT & TYPE: HDPE

STEEL PIPE SIZE:

PVC PIPE SIZE: 1.25"

CABLE DESCRIPTION

PIPE & INNERDUCT PLACEMENT

Midwest Networks Development LLC

414.672.5612

6070 N Flint Rd

Glendale, WI 53209

2108012

MND VZW LA CROSSE

LA CROSSE, WI

DRAWN BY : NORTHWIND TECH

CHECKED BY :

APPROVED BY :

APPROVED BY :

HORIZONTAL SCALE (DWG & PROF) :

VERTICAL SCALE (DWG) :

VERTICAL SCALE (PROF) :

MAP PROJECTION :

DRAWING NUMBER : DETAILS 4

N

W

E

S

County: LA CROSSE

Township:

MUNICIPALITY LA CROSSE

Section: 31 & 32

Town: 16N

Range: 7W

1. A CITY OF LA CROSSE PERMIT IS REQUIRED.
2. RESTORE ALL DISTURBED LAWN AREAS WITH TOPSOIL AND SEED AND COMPLY WITH ANY PROVISIONS SET FORTH BY THE MUNICIPALITY.
3. ANY SIDEWALKS, STREETS, AND ALLEYS THAT WILL NEED TO BE CUT OR REMOVED WILL BE PATCHED OR REPLACED IN ACCORDANCE WITH MUNICIPALITY'S SPECIFICATIONS.
4. CONTRACTOR MUST COMPLY WITH CONSTRUCTION SITE EROSION AND SEDIMENT CONTROL STATE STATUTE CHAPTER 281.33(3)(b)4.
5. CONTRACTOR MUST COMPLY WITH WDNR DEWATERING CODE 1061 FOR ALL DIRECTIONAL BORING APPLICATIONS.
6. CONTRACTOR MUST COMPLY WITH WISDOT WORK ZONE SAFETY BOOKLET FOR PROPER TEMPORARY TRAFFIC CONTROL.
7. CONTRACTOR TO PROVIDE AS-BUILT BURY DEPTH EVERY 100 FT.
8. CONTRACTOR TO PROVIDE AS-BUILT HANDHOLE GPS LOCATIONS.

LOCATIONS OF EXISTING UNDERGROUND STRUCTURES OR FACILITIES SHOWN ON THESE PLANS ARE BASED ON AVAILABLE RECORDS AT THE TIME OF PREPARATION AND ARE NOT GUARANTEED TO BE COMPLETE OR CORRECT. THE CONTRACTOR MUST CONTACT ALL UTILITIES 72 HOURS PRIOR TO CONSTRUCTION TO DETERMINE EXACT LOCATION OF ALL FACILITIES.
CONTACT DIGGERS HOTLINE 3 DAYS PRIOR TO CONSTRUCTION FOR LOCATION OF UTILITIES AT 1-800-242-8511.

CAUTION! HAND DIG WITHIN 18" OF ALL MARKED UTILITIES, CORE TO VERIFY DEPTH UNDER PAVED SURFACES.
PER STATE STATUTE 182.0175(2)(a)(3)

DIRECTIONAL BORE AND PLACE
(2) 1.25" HDPE DUCT AND #8 TRACER
WIRE 699' FROM BORE PIT TO HANDHOLE.
MAINTAIN DEPTH OF 36"-48" UNLESS
OTHERWISE NOTED
PULL 12CT 6LF/6SM OFNR FIBER
REEL #168

MAINTAIN DEPTH OF 48-60"
UNDERNEATH PAVEMENT

BORE PIT
REPLACE SIDEWALK
SLAB PER CITY OF
LA CROSSE SPECS

127 5TH AVE N
LA CROSSE, WI

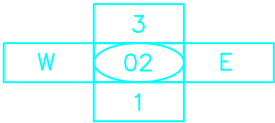
130 5TH AVE N
LA CROSSE, WI

5TH AVE

431 MAIN ST
LA CROSSE, WI

112 5TH AVE N
LA CROSSE, WI

DIRECTIONAL BORE AND PLACE
(2) 1.25" HDPE DUCT AND #8 TRACER
WIRE 119' FROM BORE PIT TO BORE PIT.
MAINTAIN DEPTH OF 36"-48" UNLESS
OTHERWISE NOTED
PULL 12CT 6LF/6SM OFNR FIBER
REEL #168



SYMBOLS	
2 x 1.25" HDPE SDR11 Innerducts / Tracer Wire	House / Building
Station Mark	Existing Handhole
Splice	Existing Manhole
Storage Loop	Power Pole
Proposed Handhole	Water Valve / Meter
Proposed Arc/Dn Guy	Tel Pole
Bond to Ground	Gas Valve / Meter
Grounded	Transmission Pole
Fiber Locate Marker Post	Hydrant
Buried Cable Marker	Sign
New Aerial Fiber Cable	Mailbox
New Underground Fiber Cable	Street/Traffic Light
Township Line	Tel Ped
City Limits	TV Ped
R/W Line	Ele Ped/Transformer
River/Stream	Deciduous Tree
C/L Road	Evergreen Tree
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Water Line	
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Telephone	
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Galvanized Iron Pipe	

MWFN CONTACT INFO	
OSP ENGINEER:	RICHARD TRGOVEC
	414-226-2205
EMERGENCY NOTIFICATION NUMBER:	1-866-831-1661

DIGGERS HOTLINE
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DRAWING DISCLAIMER
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PRELIMINARY

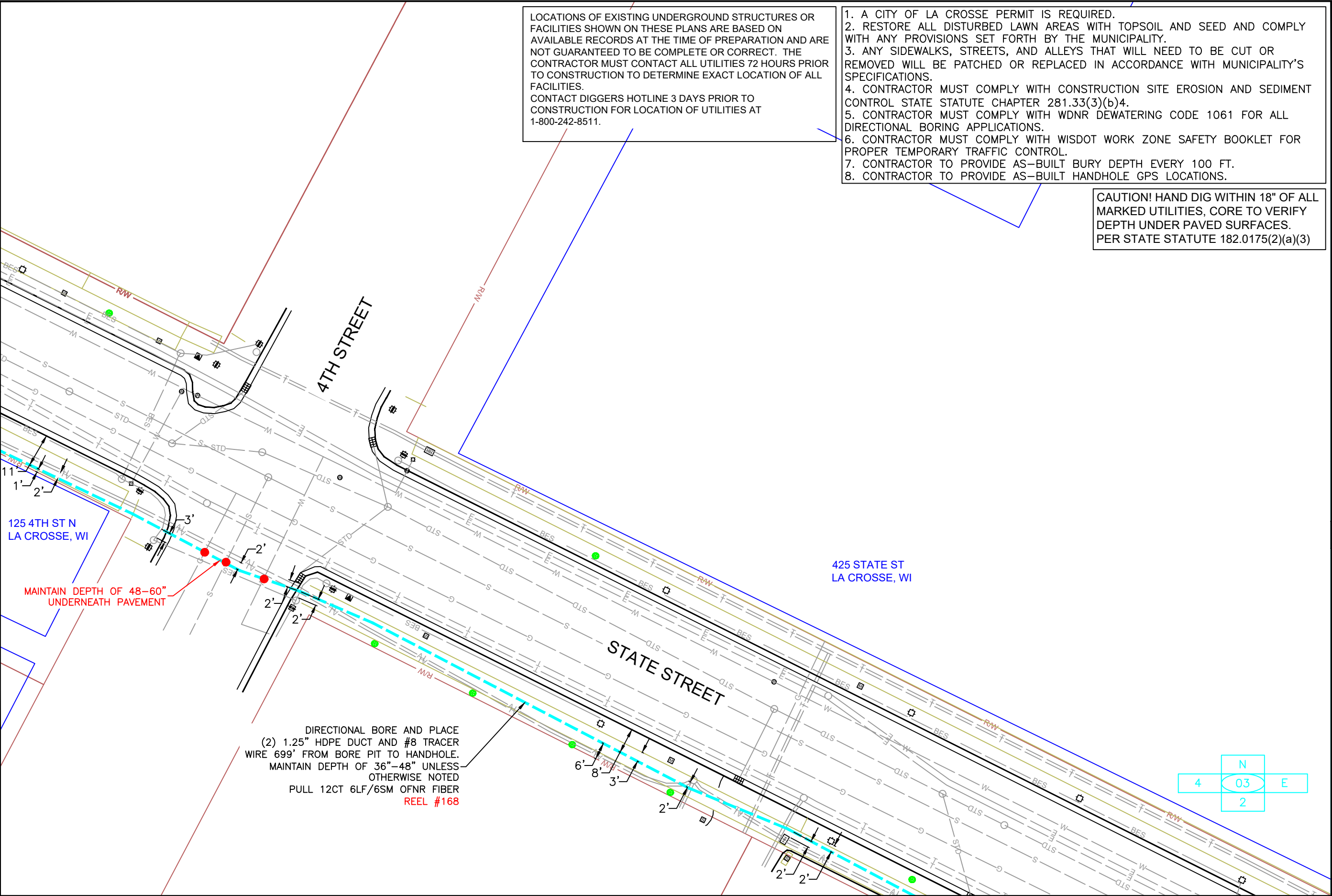
REVISIONS			
REV. NO.	DESCRIPTION	BY	DATE
CABLE FIBER COUNT:		CABLE DESCRIPTION PIPE & INNERDUCT PLACEMENT	
CABLE REEL NO.	REEL #		
SPLICE TO SPLICE CABLE LENGTH:			
INNERDUCT & TYPE: HDPE			
STEEL PIPE SIZE:			
PVC PIPE SIZE: 1.25"			

Midwest Networks Development LLC
414.672.5612
6070 N Flint Rd
Glendale, WI 53209

2108012
MND VZW LA CROSSE
LA CROSSE, WI

DRAWN BY : NORTHWIND TECH	DATE : 1/3/22
CHECKED BY :	DATE :
APPROVED BY :	DATE :
APPROVED BY :	DATE :
HORIZONTAL SCALE (DWG & PROF) : 1" = 30'	
VERTICAL SCALE (DWG) :	
VERTICAL SCALE (PROF) :	
MAP PROJECTION :	
DRAWING NUMBER :	2 OF 6

County: LA CROSSE	Township:	MUNICIPALITY LA CROSSE	Section: 32	Town: 16N	Range: 7W
-------------------	-----------	------------------------	-------------	-----------	-----------



LOCATIONS OF EXISTING UNDERGROUND STRUCTURES OR FACILITIES SHOWN ON THESE PLANS ARE BASED ON AVAILABLE RECORDS AT THE TIME OF PREPARATION AND ARE NOT GUARANTEED TO BE COMPLETE OR CORRECT. THE CONTRACTOR MUST CONTACT ALL UTILITIES 72 HOURS PRIOR TO CONSTRUCTION TO DETERMINE EXACT LOCATION OF ALL FACILITIES.
CONTACT DIGGERS HOTLINE 3 DAYS PRIOR TO CONSTRUCTION FOR LOCATION OF UTILITIES AT 1-800-242-8511.

1. A CITY OF LA CROSSE PERMIT IS REQUIRED.
2. RESTORE ALL DISTURBED LAWN AREAS WITH TOPSOIL AND SEED AND COMPLY WITH ANY PROVISIONS SET FORTH BY THE MUNICIPALITY.
3. ANY SIDEWALKS, STREETS, AND ALLEYS THAT WILL NEED TO BE CUT OR REMOVED WILL BE PATCHED OR REPLACED IN ACCORDANCE WITH MUNICIPALITY'S SPECIFICATIONS.
4. CONTRACTOR MUST COMPLY WITH CONSTRUCTION SITE EROSION AND SEDIMENT CONTROL STATE STATUTE CHAPTER 281.33(3)(b)4.
5. CONTRACTOR MUST COMPLY WITH WDNr DEWATERING CODE 1061 FOR ALL DIRECTIONAL BORING APPLICATIONS.
6. CONTRACTOR MUST COMPLY WITH WISDOT WORK ZONE SAFETY BOOKLET FOR PROPER TEMPORARY TRAFFIC CONTROL.
7. CONTRACTOR TO PROVIDE AS-BUILT BURY DEPTH EVERY 100 FT.
8. CONTRACTOR TO PROVIDE AS-BUILT HANDHOLE GPS LOCATIONS.

CAUTION! HAND DIG WITHIN 18" OF ALL MARKED UTILITIES, CORE TO VERIFY DEPTH UNDER PAVED SURFACES.
PER STATE STATUTE 182.0175(2)(a)(3)

2 x 1.25" HDPE SDR11 Innerducts / Tracer Wire

0+00 Station Mark

Splice

Storage Loop

Proposed Handhole

Proposed Arc/Dn Guy

Bond to Ground

Grounded

Fiber Locate Marker Post

Buried Cable Marker

New Aerial Fiber Cable

New Underground Fiber Cable

Township Line

City Limits

R/W Line

River/Stream

RR Tracks

Fence

Oil Pipeline

Gas Pipeline

Water Line

San. Sewer

Storm Sewer

Exis UG Telephone

Exis CATV

Exis FiberOptic

B.I.P. Black Iron Pipe

G.I.P. Galvanized Iron Pipe

House / Building

Existing Handhole

Power Pole

Water Valve / Meter

Tel Pole

Gas Valve / Meter

Transmission Pole

Hydrant

Sign

Mailbox

Street/Traffic Light

Tel Ped

TV Ped

Ele Ped/Transformer

Deciduous Tree

Evergreen Tree

Exis City Comm Line

Exis Tele

Exis Aerial Fiber Cable

Exis UG Fiber Cable

Exis UG Power Line

MWFN CONTACT INFO

OSP ENGINEER: RICHARD TRGOVEC
414-226-2205

EMERGENCY NOTIFICATION NUMBER: 1-866-831-1661

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PRELIMINARY

REVISIONS

REV. NO.	DESCRIPTION	BY	DATE

CABLE FIBER COUNT:

CABLE REEL NO. REEL #

SPLICE TO SPLICE CABLE LENGTH:

INNERDUCT & TYPE: HDPE

STEEL PIPE SIZE:

PVC PIPE SIZE: 1.25"

CABLE DESCRIPTION

PIPE & INNERDUCT PLACEMENT

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MND VZW LA CROSSE
LA CROSSE, WI

DRAWN BY : NORTHWIND TECH

CHECKED BY :

APPROVED BY :

APPROVED BY :

HORIZONTAL SCALE (DWG & PROF) : 1" = 30'

VERTICAL SCALE (DWG) :

VERTICAL SCALE (PROF) :

MAP PROJECTION :

DATE : 1/3/22

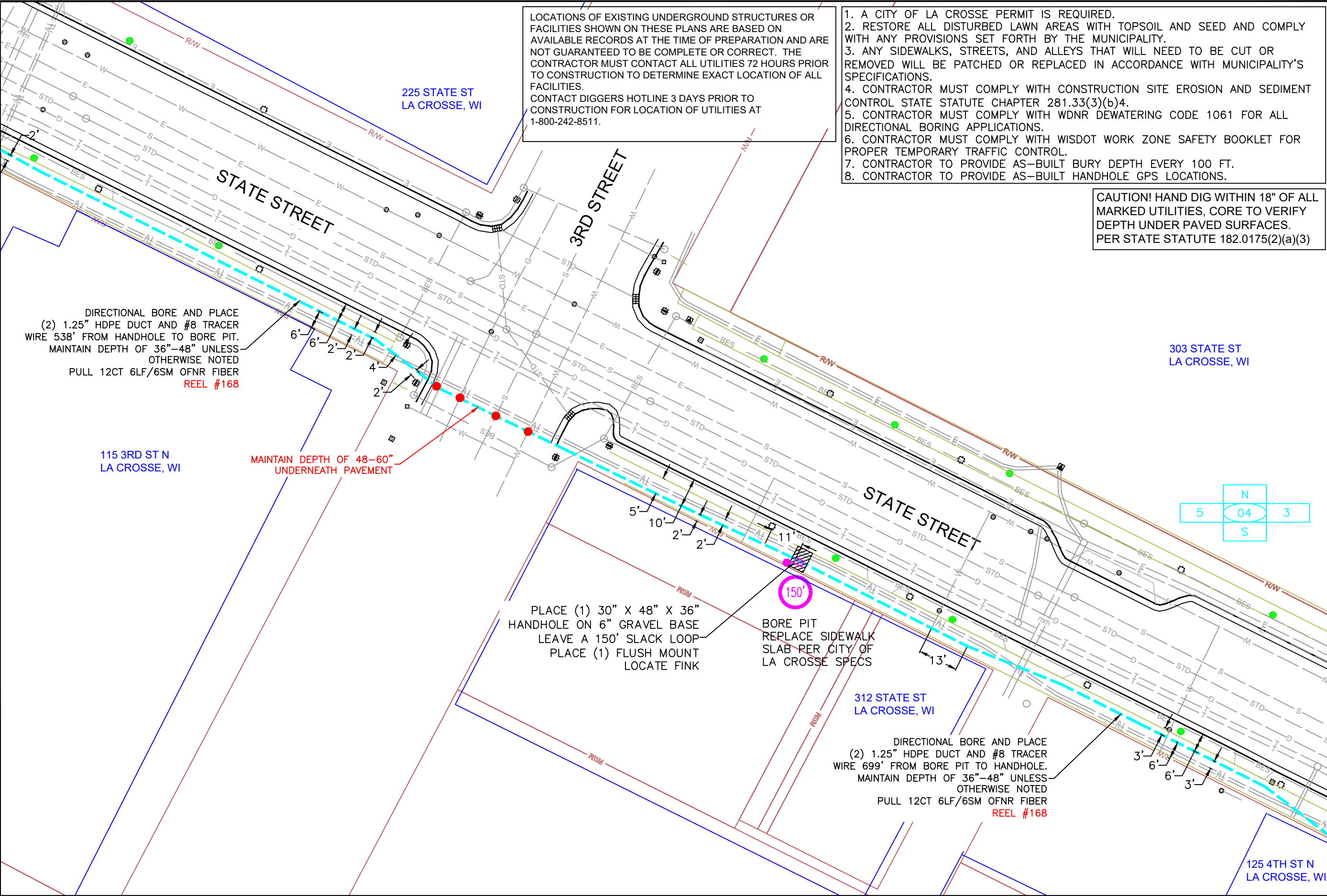
DATE :

DATE :

DATE :

1" = 30'

DRAWING NUMBER : 3 OF 6



LOCATIONS OF EXISTING UNDERGROUND STRUCTURES OR FACILITIES SHOWN ON THESE PLANS ARE BASED ON AVAILABLE RECORDS AT THE TIME OF PREPARATION AND ARE NOT GUARANTEED TO BE COMPLETE OR CORRECT. THE CONTRACTOR MUST CONTACT ALL UTILITIES 72 HOURS PRIOR TO CONSTRUCTION TO DETERMINE EXACT LOCATION OF ALL FACILITIES.
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CAUTION! HAND DIG WITHIN 18" OF ALL MARKED UTILITIES, CORE TO VERIFY DEPTH UNDER PAVED SURFACES.
PER STATE STATUTE 182.0175(2)(a)(3)

SYMBOLS
2 x 1.25" HDPE SDR11 Innerducts / Tracer Wire
Station Mark
Splice
Storage Loop
Proposed Handhole
Proposed Arc/Dn Guy
Bond to Ground
Grounded
Fiber Locate Marker Post
Buried Cable Marker
New Aerial Fiber Cable
New Underground Fiber Cable
Township Line
City Limits
R/W Line
River/Stream
C/L Road
RR Tracks
Oil Pipeline
Gas Pipeline
Water Line
San. Sewer
Storm Sewer
Exis UG Telephone
Exis CATV
Exis FiberOptic
B.I.P.
G.I.P.

House / Building

Existing Handhole

Power Pole

Water Valve / Meter

Tel Pole

Gas Valve / Meter

Transmission Pole

Hydrant

Sign

Mailbox

Street/Traffic Light

Tel Ped

TV Ped

Ele Ped/Transformer

Deciduous Tree

Evergreen Tree

Exis City Comm Line

Exis Tele

Exis Aerial Fiber Cable

Exis UG Fiber Cable

Exis UG Power Line

MWFN CONTACT INFO
OSP ENGINEER: RICHARD TRGOVEC
414-226-2205
EMERGENCY NOTIFICATION NUMBER: 1-866-831-1661

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PRELIMINARY

REVISIONS			
REV. NO.	DESCRIPTION	BY	DATE

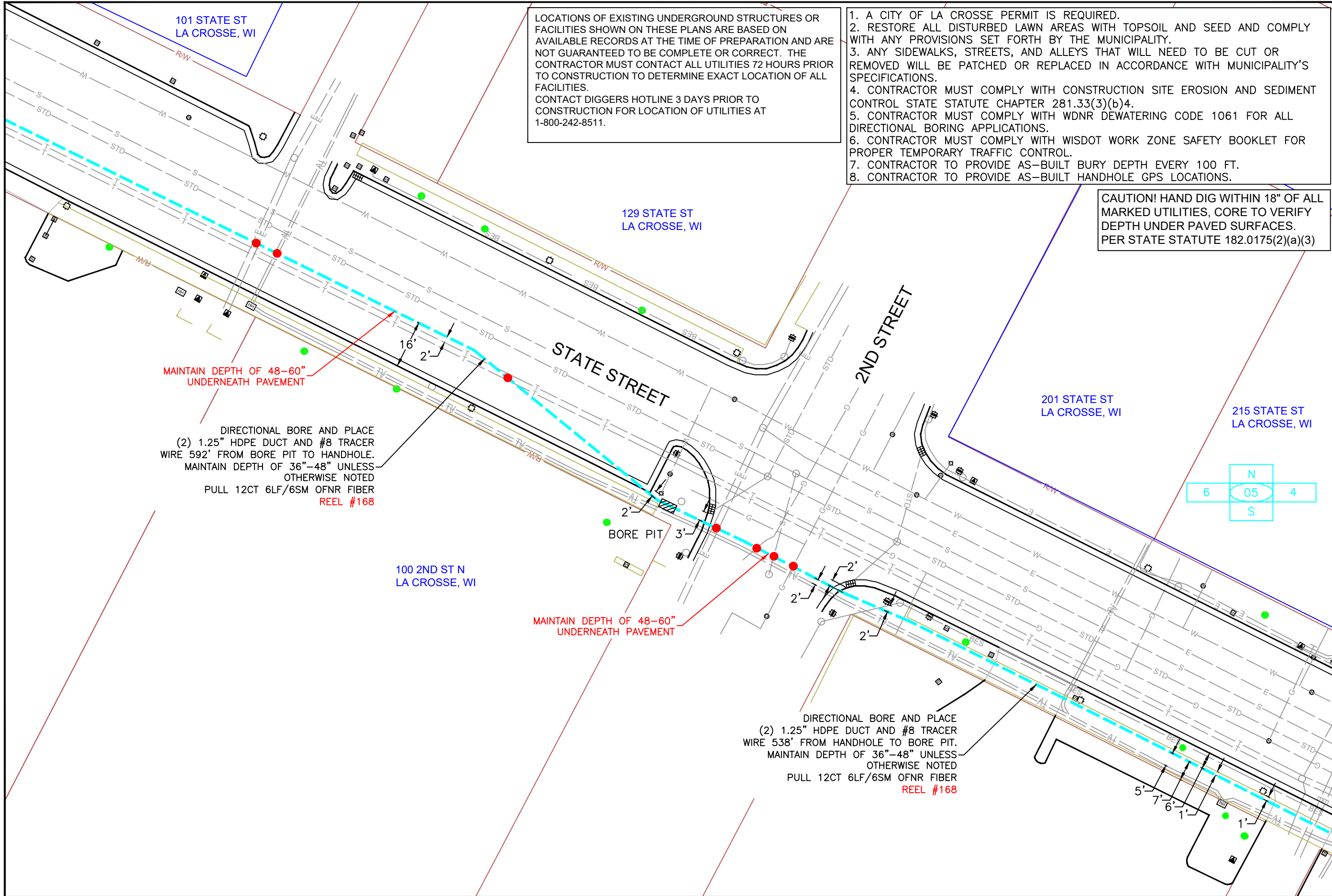
CABLE FIBER COUNT:	CABLE DESCRIPTION
CABLE REEL NO. REEL #	
SPLICE TO SPLICE CABLE LENGTH:	
INNERDUCT & TYPE: HDPE	PIPE & INNERDUCT
STEEL PIPE SIZE:	PLACEMENT
PVC PIPE SIZE: 1.25"	

Midwest Networks Development LLC
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Glendale, WI 53209

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MND VZW LA CROSSE
LA CROSSE, WI

DRAWN BY : NORTHWIND TECH	DATE : 1/3/22
CHECKED BY :	DATE :
APPROVED BY :	DATE :
APPROVED BY :	DATE :
HORIZONTAL SCALE (DWG & PROF) :	1" = 30'
VERTICAL SCALE (DWG) :	
VERTICAL SCALE (PROF) :	
MAP PROJECTION :	
DRAWING NUMBER :	4 OF 6





SYMBOLS

2 x 1.25" HDPE SDR11	Innerducts / Tracer Wire
Station Mark	House / Building
Splice	Existing Handhole
Storage Loop	Existing Manhole
Proposed Handhole	Power Pole
Proposed Arc/Dn Guy	Water Valve / Meter
Bond to Ground	Tel Pole
Grounded	Gas Valve / Meter
Fiber Locate Marker Post	Transmission Pole
Buried Cable Marker	Hydrant
New Aerial Fiber Cable	Sign
New Underground Fiber Cable	Mailbox
Township Line	Street/Traffic Light
City Limits	Tel Ped
R/W Line	TV Ped
River/Stream	Ele Ped/Transformer
C/L Road	Deciduous Tree
RR Tracks	Evergreen Tree
Oil Pipeline	Exis City Comm Line
Water Line	Exis Tele
San. Sewer	Exis Aerial Fiber Cable
Storm Sewer	Exis UG Fiber Cable
Telephone	Exis CATV
Exis FiberOptic	Exis UG Power Line
B.I.P.	Black Iron Pipe
G.I.P.	Galvanized Iron Pipe

MWFN CONTACT INFO

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PRELIMINARY

REVISIONS			
REV. NO.	DESCRIPTION	BY	DATE

CABLE FIBER COUNT:	CABLE DESCRIPTION
CABLE REEL NO. REEL #	
SPLICE TO SPLICE CABLE LENGTH:	
INNERDUCT & TYPE: HDPE	
STEEL PIPE SIZE:	PIPE & INNERDUCT PLACEMENT
PVC PIPE SIZE: 1.25"	

Midwest Networks Development LLC

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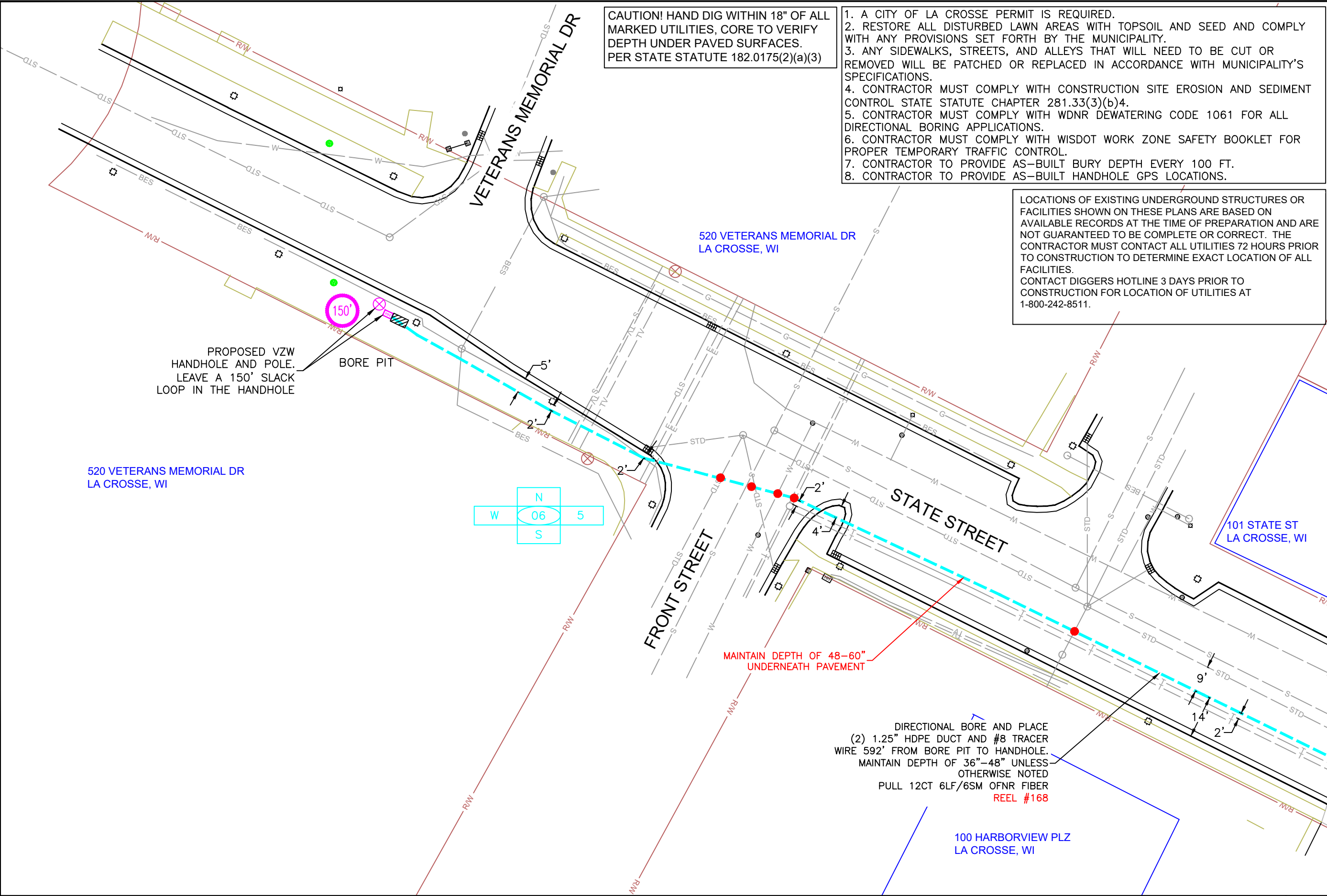
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MND VZW LA CROSSE
LA CROSSE, WI

DRAWN BY : NORTHWIND TECH	DATE : 1/3/22
CHECKED BY :	DATE :
APPROVED BY :	DATE :
APPROVED BY :	DATE :
HORIZONTAL SCALE (DWG & PROF) : 1" = 30'	
VERTICAL SCALE (DWG) :	
VERTICAL SCALE (PROF) :	
MAP PROJECTION :	

DRAWING NUMBER : 5 OF 6

County: LA CROSSE	Township:	MUNICIPALITY LA CROSSE	Section: 31	Town: 16N	Range: 7W
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CAUTION! HAND DIG WITHIN 18" OF ALL MARKED UTILITIES, CORE TO VERIFY DEPTH UNDER PAVED SURFACES. PER STATE STATUTE 182.0175(2)(a)(3)

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SYMBOLS

2 x 1.25" HDPE SDR11 Innerducts / Tracer Wire	House / Building
Station Mark	Existing Handhole
Splice	Existing Manhole
Storage Loop	Power Pole
Proposed Handhole	Water Valve / Meter
Proposed Arc/Dn Guy	Tel Pole
Bond to Ground	Gas Valve / Meter
Grounded	Transmission Pole
Fiber Locate Marker Post	Hydrant
Buried Cable Marker	Sign
New Aerial Fiber Cable	Mailbox
New Underground Fiber Cable	Street/Traffic Light
Township Line	Tel Ped
City Limits	TV Ped
R/W Line	Ele Ped/Transformer
River/Stream	Deciduous Tree
C/L Road	Evergreen Tree
RR Tracks	
Fence	
Oil Pipeline	
Gas Pipeline	
Water Line	
San. Sewer	
Storm Sewer	
Exis UG Telephone	
Exis CATV	
Exis FiberOptic	
B.I.P.	
G.I.P.	

MWFN CONTACT INFO

OSP ENGINEER: RICHARD TRGOVEC
414-226-2205

EMERGENCY NOTIFICATION NUMBER: 1-866-831-1661

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PRELIMINARY


REVISIONS			
REV. NO.	DESCRIPTION	BY	DATE
CABLE FIBER COUNT:		CABLE DESCRIPTION	
CABLE REEL NO. REEL #		CABLE DESCRIPTION	
SPLICE TO SPLICE CABLE LENGTH:		CABLE DESCRIPTION	
INNERDUCT & TYPE: HDPE		PIPE & INNERDUCT PLACEMENT	
STEEL PIPE SIZE:		PIPE & INNERDUCT PLACEMENT	
PVC PIPE SIZE: 1.25"		PIPE & INNERDUCT PLACEMENT	

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Glendale, WI 53209

2108012
MND VZW LA CROSSE
LA CROSSE, WI

DRAWN BY : NORTHWIND TECH	DATE : 1/3/22
CHECKED BY :	DATE :
APPROVED BY :	DATE :
APPROVED BY :	DATE :
HORIZONTAL SCALE (DWG & PROF) : 1" = 30'	
VERTICAL SCALE (DWG) :	
VERTICAL SCALE (PROF) :	
MAP PROJECTION :	
DRAWING NUMBER : 6 OF 6	



Date: 1/4/2021 **Author:** Northwind Technical Services **Project:** State St - Shoulder Work

Comments:
NOT TO SCALE

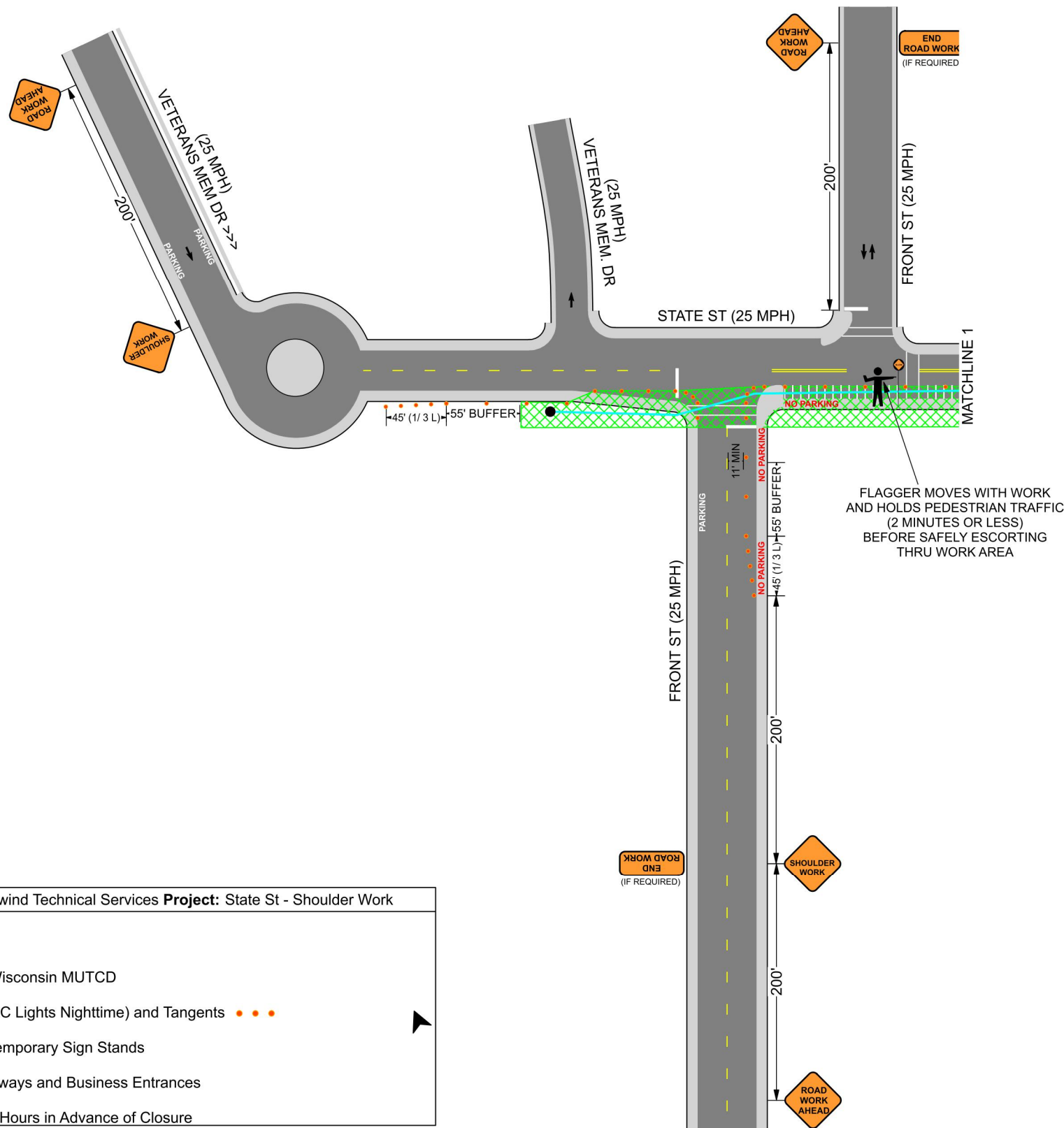
All Plan Details According to Wisconsin MUTCD

Drums for All Tapers (W/ Type-C Lights Nighttime) and Tangents ● ● ●

All Signs 36" Class Installed Temporary Sign Stands

Allow Access to Affected Driveways and Business Entrances

Install NO PARKING Signs 72 Hours in Advance of Closure



SYMBOLS	
2 x 1.25" HDPE SDR11 Innerducts / Tracer Wire	House / Building
Station Mark	Existing Handhole
Splice	Existing Manhole
Storage Loop	Power Pole
Proposed Handhole	Water Valve / Meter
Proposed Anc/Dn Guy	Tel Pole
Bond to Ground	Gas Valve / Meter
Grounded	Transmission Pole
Fiber Locate Marker Post	Hydrant
Buried Cable Marker	Sign
New Aerial Fiber Cable	Mailbox
New Underground Fiber Cable	Street/Traffic Light
Township Line	Tel Ped
City Limits	TV Ped
R/W Line	Ele Ped/Transformer
River/Stream	Deciduous Tree
RR Tracks	Evergreen Tree
Fence	
Oil Pipeline	Exis City Comm Line
Gas Pipeline	Exis Comm Line
Water Line	Exis Tele
San. Sewer	Exis Aerial Fiber Cable
Storm Sewer	Exis UG Fiber Cable
Exis UG Telephone	Exis UG Fiber Cable
Exis CATV	Exis UG Power Line
Exis FiberOptic	
B.I.P.	Black Iron Pipe
G.I.P.	Galvanized Iron Pipe

MWFN CONTACT INFO

OSP ENGINEER: RICHARD TRGOVEC
414-226-2205

EMERGENCY NOTIFICATION NUMBER: 1-866-831-1661

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PRELIMINARY

REVISIONS			
REV. NO.	DESCRIPTION	BY	DATE

CABLE FIBER COUNT:	CABLE DESCRIPTION
CABLE REEL NO. REEL #	
SPLICE TO SPLICE CABLE LENGTH:	
INNERDUCT & TYPE: HDPE	PIPE & INNERDUCT PLACEMENT
STEEL PIPE SIZE:	
PVC PIPE SIZE: 1.25"	



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MND VZW LA CROSSE
LA CROSSE, WI

DRAWN BY : NORTHWIND TECH	DATE : 1/3/22
CHECKED BY :	DATE :
APPROVED BY :	DATE :
APPROVED BY :	DATE :
HORIZONTAL SCALE (DWG & PROF) :	
VERTICAL SCALE (DWG) :	
VERTICAL SCALE (PROF) :	

MAP PROJECTION :	
DRAWING NUMBER :	TCP 1





Date: 1/4/2021 **Author:** Northwind Technical Services **Project:** State St - Shoulder Work

Comments:
NOT TO SCALE

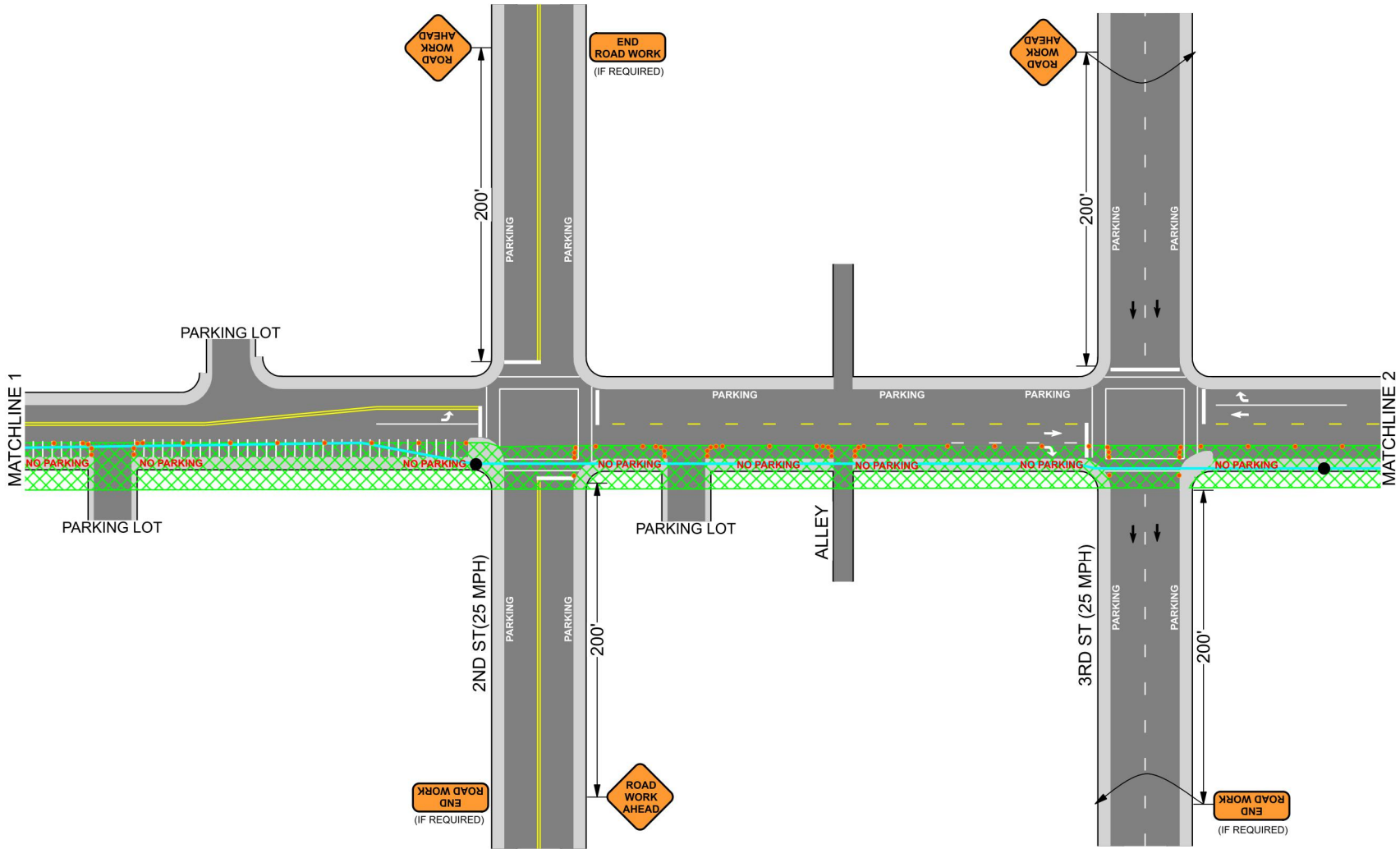
All Plan Details According to Wisconsin MUTCD

Drums for All Tapers (W/ Type-C Lights Nighttime) and Tangents ● ● ●

All Signs 36" Class Installed Temporary Sign Stands

Allow Access to Affected Driveways and Business Entrances

Install NO PARKING Signs 72 Hours in Advance of Closure



SYMBOLS	
	2 x 1.25" HDPE SDR11 Innerducts / Tracer Wire
	Station Mark
	Splice
	Storage Loop
	Proposed Handhole
	Proposed Anc/Dn Guy
	Bond to Ground
	Grounded
	Fiber Locate Marker Post
	Buried Cable Marker
	New Aerial Fiber Cable
	New Underground Fiber Cable
	Township Line
	City Limits
	R/W Line
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	RR Tracks
	Fence
	Oil Pipeline
	Gas Pipeline
	Water Line
	San. Sewer
	Storm Sewer
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	Exis CATV
	Exis FiberOptic
	B.I.P. Black Iron Pipe
	G.I.P. Galvanized Iron Pipe
	House / Building
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	Tel Pole
	Gas Valve / Meter
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	Hydrant
	Sign
	Mailbox
	Street/Traffic Light
	Tel Ped
	TV Ped
	Ele Ped/Transformer
	Deciduous Tree
	Evergreen Tree
	Exis City Comm Line
	Exis Tele
	Exis Aerial Fiber Cable
	Exis UG Fiber Cable
	Exis UG Power Line

MWFN CONTACT INFO	
OSP ENGINEER:	RICHARD TRGOVEC
	414-226-2205
EMERGENCY NOTIFICATION NUMBER:	1-866-831-1661

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PRELIMINARY

REVISIONS			
REV. NO.	DESCRIPTION	BY	DATE

CABLE FIBER COUNT:	CABLE DESCRIPTION PIPE & INNERDUCT PLACEMENT
CABLE REEL NO. REEL #	
SPLICE TO SPLICE CABLE LENGTH:	
INNERDUCT & TYPE: HDPE	
STEEL PIPE SIZE:	PIPE & INNERDUCT PLACEMENT
PVC PIPE SIZE: 1.25"	

Midwest Networks Development LLC
414.672.5612
6070 N Flint Rd
Glendale, WI 53209

2108012
MND VZW LA CROSSE
LA CROSSE, WI

DRAWN BY : NORTHWIND TECH	DATE : 1/3/22
CHECKED BY :	DATE :
APPROVED BY :	DATE :
APPROVED BY :	DATE :
HORIZONTAL SCALE (DWG & PROF) :	
VERTICAL SCALE (DWG) :	
VERTICAL SCALE (PROF) :	

MAP PROJECTION :	
DRAWING NUMBER :	TCP 2

County: LA CROSSE

Township:

MUNICIPALITY LA CROSSE

Section: 31

Town: 16N

Range: 7W



PAGE 3 OF 4

Date: 1/4/2021 Author: Northwind Technical Services Project: State St - Shoulder Work

Comments:

NOT TO SCALE

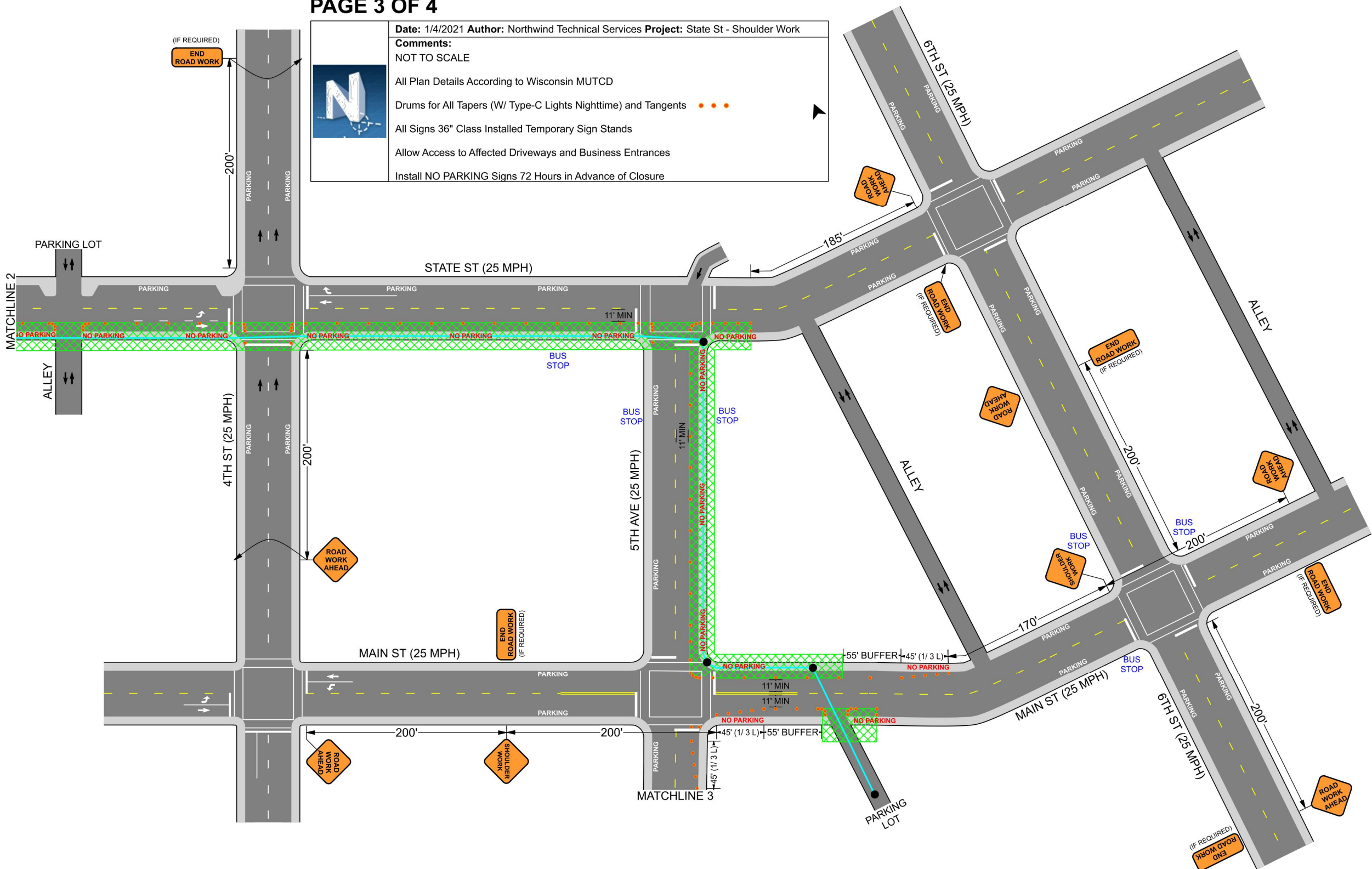
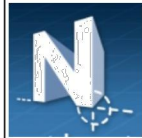
All Plan Details According to Wisconsin MUTCD

Drums for All Tapers (W/ Type-C Lights Nighttime) and Tangents

All Signs 36" Class Installed Temporary Sign Stands

Allow Access to Affected Driveways and Business Entrances

Install NO PARKING Signs 72 Hours in Advance of Closure



SYMBOLS	
	Innerducts / Tracer Wire
	Station Mark
	Splice
	Storage Loop
	Proposed Handhole
	Proposed Arc/Dn Guy
	Bond to Ground
	Grounded
	Fiber Locate Marker Post
	Buried Cable Marker
	New Aerial Fiber Cable
	New Underground Fiber Cable
	Township Line
	City Limits
	R/W Line
	River/Stream
	RR Tracks
	Fence
	Oil Pipeline
	Gas Pipeline
	Water Line
	San. Sewer
	Storm Sewer
	Exis UG Telephone
	Exis CATV
	Exis FiberOptic
	B.I.P.
	G.I.P.
	House / Building
	Existing Handhole
	Existing Manhole
	Power Pole
	Water Valve / Meter
	Tel Pole
	Gas Valve / Meter
	Transmission Pole
	Hydrant
	Sign
	Mailbox
	Street/Traffic Light
	Tel Ped
	TV Ped
	Ele Ped/Transformer
	Deciduous Tree
	Evergreen Tree
	Exis City Comm Line
	Exis Tele
	Exis Aerial Fiber Cable
	Exis UG Fiber Cable
	Exis UG Power Line

MWFN CONTACT INFO	
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EMERGENCY NOTIFICATION NUMBER:	1-866-831-1661

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PRELIMINARY

REVISIONS			
REV. NO.	DESCRIPTION	BY	DATE

CABLE FIBER COUNT:	CABLE DESCRIPTION
CABLE REEL NO. REEL #	
SPLICE TO SPLICE CABLE LENGTH:	
INNERDUCT & TYPE: HDPE	
STEEL PIPE SIZE:	PIPE & INNERDUCT PLACEMENT
PVC PIPE SIZE: 1.25"	



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414.672.5612
6070 N Flint Rd
Glendale, WI 53209

2108012
MND VZW LA CROSSE
LA CROSSE, WI

DRAWN BY : NORTHWIND TECH	DATE : 1/3/22
CHECKED BY :	DATE :
APPROVED BY :	DATE :
APPROVED BY :	DATE :

HORIZONTAL SCALE (DWG & PROF) :
VERTICAL SCALE (DWG) :
VERTICAL SCALE (PROF) :

MAP PROJECTION :

DRAWING NUMBER : TCP 3

County: LA CROSSE

Township:

MUNICIPALITY LA CROSSE

Section: 31

Town: 16N

Range: 7W



