

MIDWEST FIBER NETWORKS

VZB FISERV PHASE 2

#1607019

MILWAUKEE CO.

OCTOBER, 2016

SYMBOLS	
2 x 1.25" HDPE SDR11 Innerducts / Tracer Wire	House / Building
0+00 Station Mark	Existing Handhole
Splice	Existing Manhole
100' 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
C/L Road	Evergreen Tree
RR Tracks	Exis City Comm Line
Fence	Exis Tele
Oil Pipeline	Exis Aerial Fiber Cable
Water Line	Exis UG Fiber Cable
San. Sewer	Exis UG Power Line
Storm Sewer	
Exis UG Telephone	
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

DIGGERS HOTLINE
 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	PIPE & INNERDUCT PLACEMENT
STEEL PIPE SIZE:	
PVC PIPE SIZE: 1.25"	

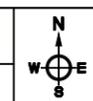
MIDWEST FIBER NETWORKS
Midwest Fiber Networks, LLC
 414.672.5612
 6070 N Flint Rd
 Glendale, WI 53209

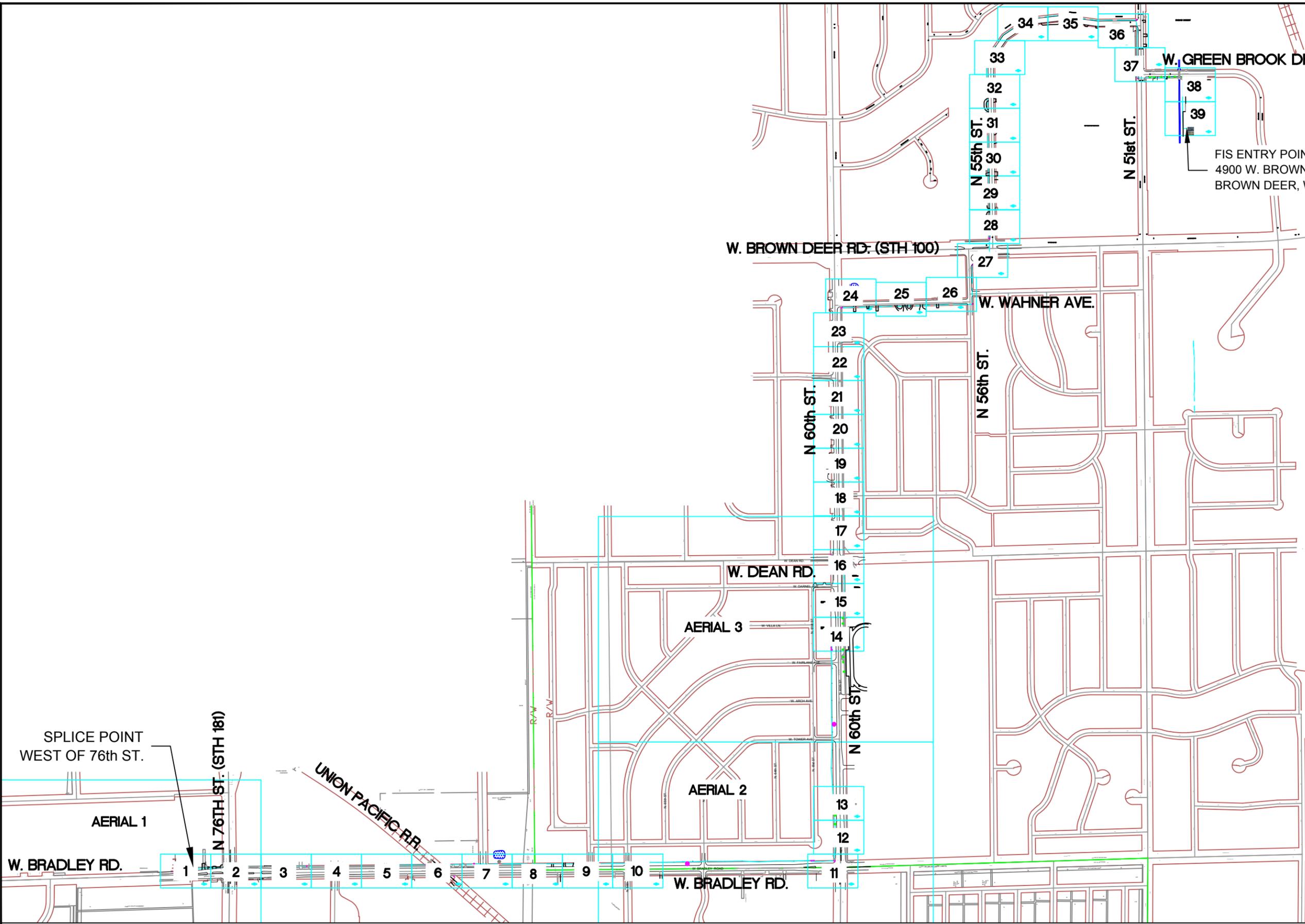
FIBER BUILD
1607019
VZB FISERV - 2

DRAWN BY : HWT	DATE :
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 :	COVER

County: MILWAUKEE	Township:	MUNICIPALITY MIL / BROWN DEER	Section: 9	Town: 8N	Range: 21E
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SYMBOLS

2 x 1.25" HDPE SDR11	Innerducts / Tracer Wire
0+00	Station Mark
Splice	House / Building
Storage Loop	Existing Handhole
Proposed Handhole	Existing Manhole
Proposed Anc/Dn Guy	Power Pole
Bond to Ground	Water Valve / Meter
Grounded	Tel Pole
Fiber Locate Marker Post	Gas Valve / Meter
Buried Cable Marker	Transmission Pole
New Aerial Fiber Cable	Hydrant
New Underground Fiber Cable	Sign
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River/Stream	TV Ped
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Gas Pipeline	Exis Tele
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Storm Sewer	Exis UG Fiber Cable
Exis UG Telephone	Exis UG Power Line
Exis CATV	
Exis FiberOptic	
B.I.P.	Black Iron Pipe
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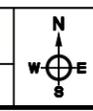
REVISIONS			
REV. NO.	DESCRIPTION	BY	DATE

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 FIBER NETWORKS
Midwest Fiber Networks, LLC
 414.672.5612
 6070 N Flint Rd
 Glendale, WI 53209

FIBER BUILD 1607019 VZB FISERV - 2

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CHECKED BY :	DATE :
APPROVED BY :	DATE :
APPROVED BY :	DATE :
HORIZONTAL SCALE (DWG & PROF) : 1" = 30'	
VERTICAL SCALE (DWG) :	
VERTICAL SCALE (PROF) :	
MAP PROJECTION :	

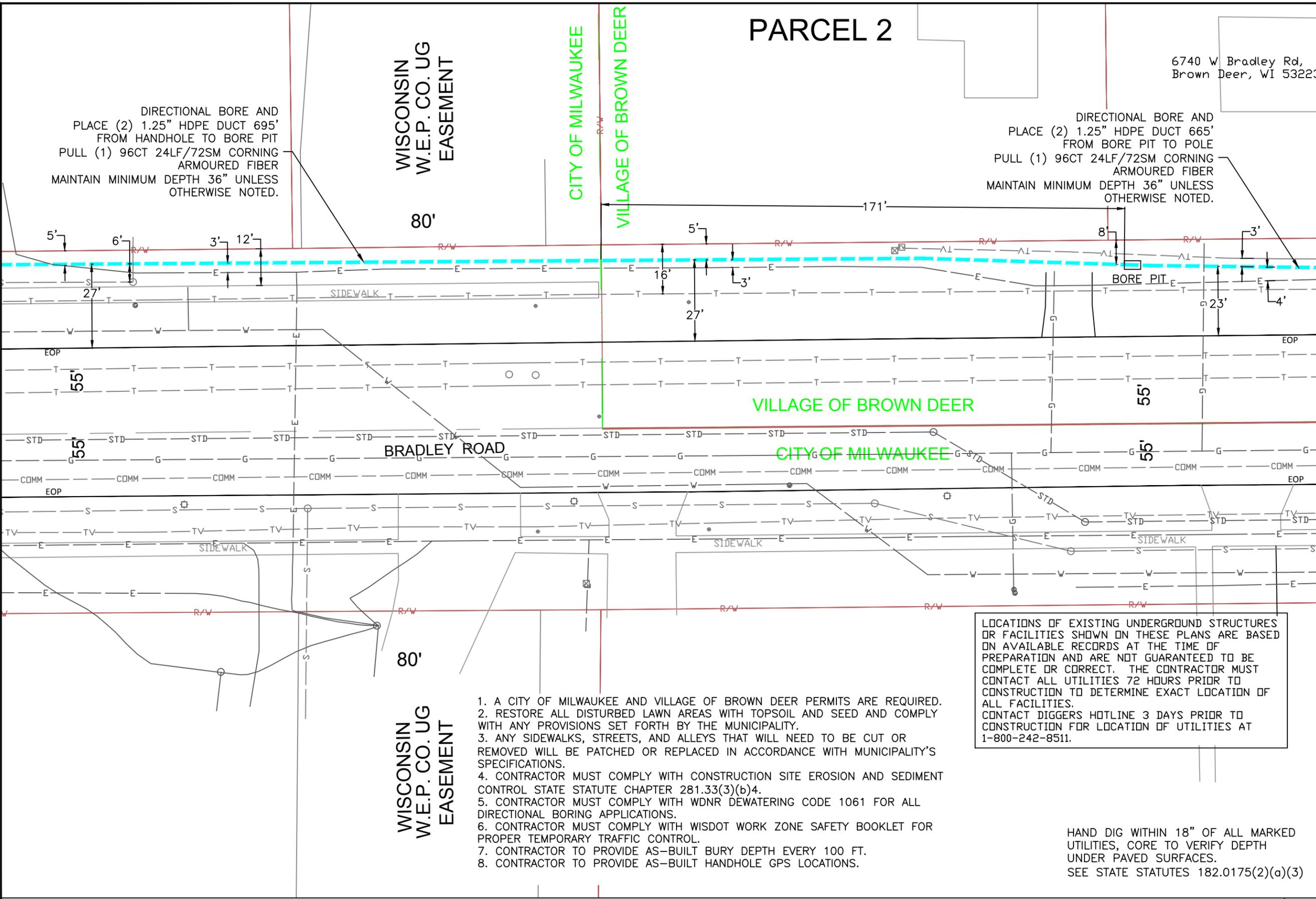


PARCEL 2

6740 W Bradley Rd,
Brown Deer, WI 53223

DIRECTIONAL BORE AND PLACE (2) 1.25" HDPE DUCT 695' FROM HANDHOLE TO BORE PIT PULL (1) 96CT 24LF/72SM CORNING ARMoured FIBER MAINTAIN MINIMUM DEPTH 36" UNLESS OTHERWISE NOTED.

DIRECTIONAL BORE AND PLACE (2) 1.25" HDPE DUCT 665' FROM BORE PIT TO POLE PULL (1) 96CT 24LF/72SM CORNING ARMoured FIBER MAINTAIN MINIMUM DEPTH 36" UNLESS OTHERWISE NOTED.



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
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Bond to Ground	Gas Valve / Meter
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Fence	Exis Tele
Oil Pipeline	Exis Aerial Fiber Cable
Gas Pipeline	Exis UG Fiber Cable
Water Line	Exis UG Power Line
San. Sewer	
Storm Sewer	
Exis UG	
Telephone	
Exis CATV	
Exis FiberOptic	
B.I.P.	Black Iron Pipe
G.I.P.	Galvanized Iron Pipe

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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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FIBER BUILD
 1607019
 VZB FISERV - 2

DRAWN BY: HWT	DATE:
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: 8 OF 39

1. A CITY OF MILWAUKEE AND VILLAGE OF BROWN DEER PERMITS ARE 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.

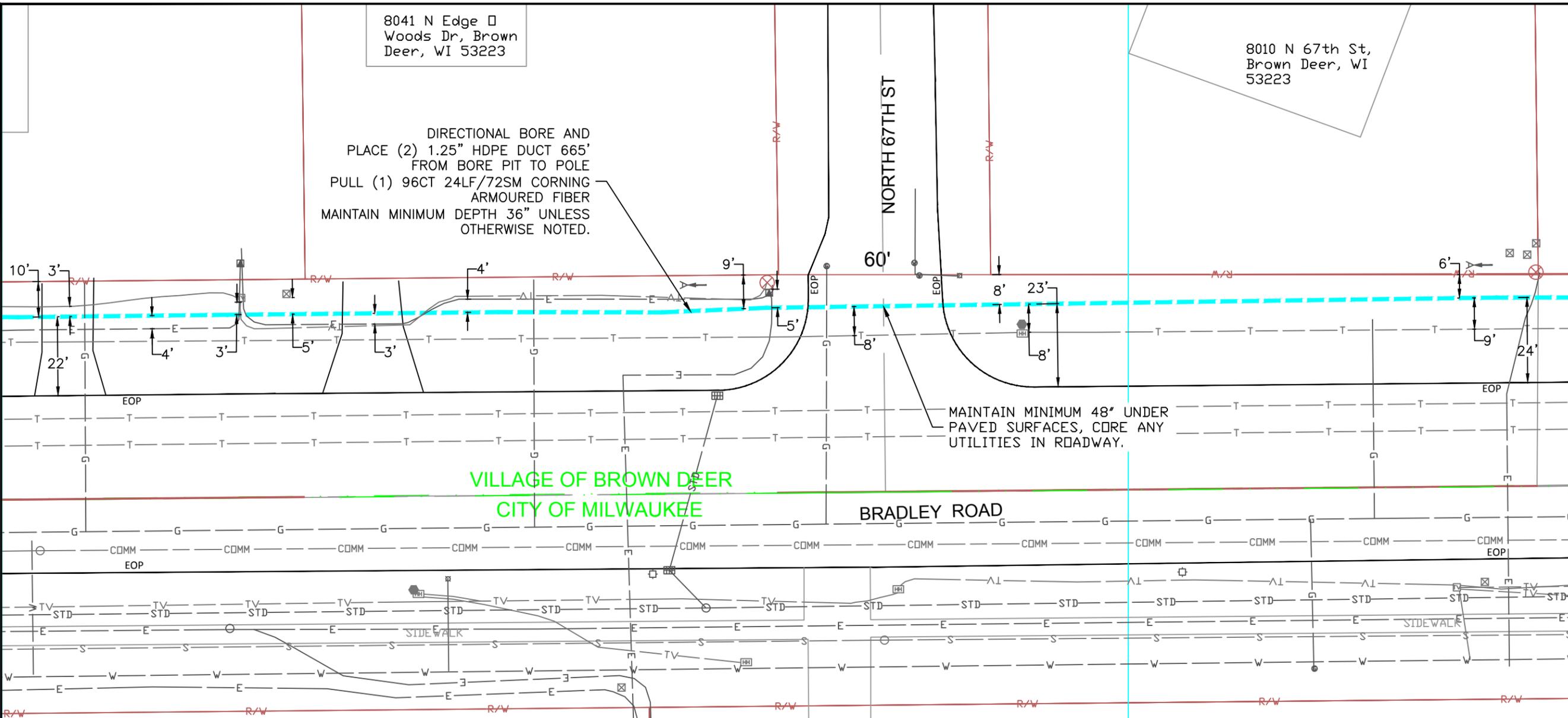
HAND DIG WITHIN 18" OF ALL MARKED UTILITIES, CORE TO VERIFY DEPTH UNDER PAVED SURFACES.
 SEE STATE STATUTES 182.0175(2)(a)(3)



8041 N Edge □
Woods Dr, Brown
Deer, WI 53223

8010 N 67th St,
Brown Deer, WI
53223

DIRECTIONAL BORE AND
PLACE (2) 1.25" HDPE DUCT 665'
FROM BORE PIT TO POLE
PULL (1) 96CT 24LF/72SM CORNING
ARMoured FIBER
MAINTAIN MINIMUM DEPTH 36" UNLESS
OTHERWISE NOTED.



MAINTAIN MINIMUM 48" UNDER
PAVED SURFACES, CORE ANY
UTILITIES IN ROADWAY.

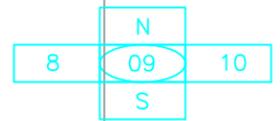
VILLAGE OF BROWN DEER
CITY OF MILWAUKEE

BRADLEY ROAD

NORTH 67TH ST

1. A VILLAGE OF BROWN DEER PERMIT IS REQUIRED.
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HAND DIG WITHIN 18" OF ALL MARKED UTILITIES, CORE TO VERIFY DEPTH UNDER PAVED SURFACES. SEE STATE STATUTES 182.0175(2)(a)(3)

SYMBOLS

2 x 1.25" HDPE SDR11	Innerducts / Tracer Wire
0+00	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
—	River/Stream
—	C/L Road
—	RR Tracks
—	Fence
—	Oil Pipeline
—	Gas Pipeline
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—	Storm Sewer
—	Telephone
—	Exis CATV
—	Exis FiberOptic
B.I.P.	Black Iron Pipe
G.I.P.	Galvanized Iron Pipe
⊠	House / Building
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⊠	Water Valve / Meter
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⊠	Mailbox
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⊠	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

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PRELIMINARY

REVISIONS

REV. NO.	DESCRIPTION	BY	DATE

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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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6070 N Flint Rd
Glendale, WI 53209

FIBER BUILD
1607019
VZB FISERV - 2

DRAWN BY : NWT	DATE :
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 : 9 OF 39



DIRECTIONAL BORE AND PLACE (2) 1.25" HDPE DUCT 665' FROM BORE PIT TO POLE PULL (1) 96CT 24LF/72SM CORNING ARMOURD FIBER MAINTAIN MINIMUM DEPTH 36" UNLESS OTHERWISE NOTED.

MWFN TO RISER ON THE SW QUAD OF POLE #85-00152

MWFN TO ANCHOR WEST OF POLE #84-02039

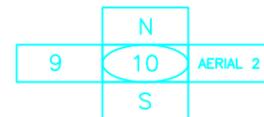
PLACE (1) FIBER MARKER POST

MAINTAIN MINIMUM 48" UNDER PAVED SURFACES, CORE ANY UTILITIES IN ROADWAY.

VILLAGE OF BROWN DEER
CITY OF MILWAUKEE

1. A VILLAGE OF BROWN DEER PERMIT IS REQUIRED.
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SYMBOLS	
2 x 1.25" HDPE SDR11	Innerducts / Tracer Wire
0+00	Station Mark
⊕	Splice
⊙	Storage Loop
⊕	Proposed Handhole
⊕	Proposed Anc/Dn Guy
⊕	Bond to Ground
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STEEL PIPE SIZE:	
PVC PIPE SIZE: 1.25"	



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VZB FISERV - 2

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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 : 10 OF 39

County: MILWAUKEE

Township:

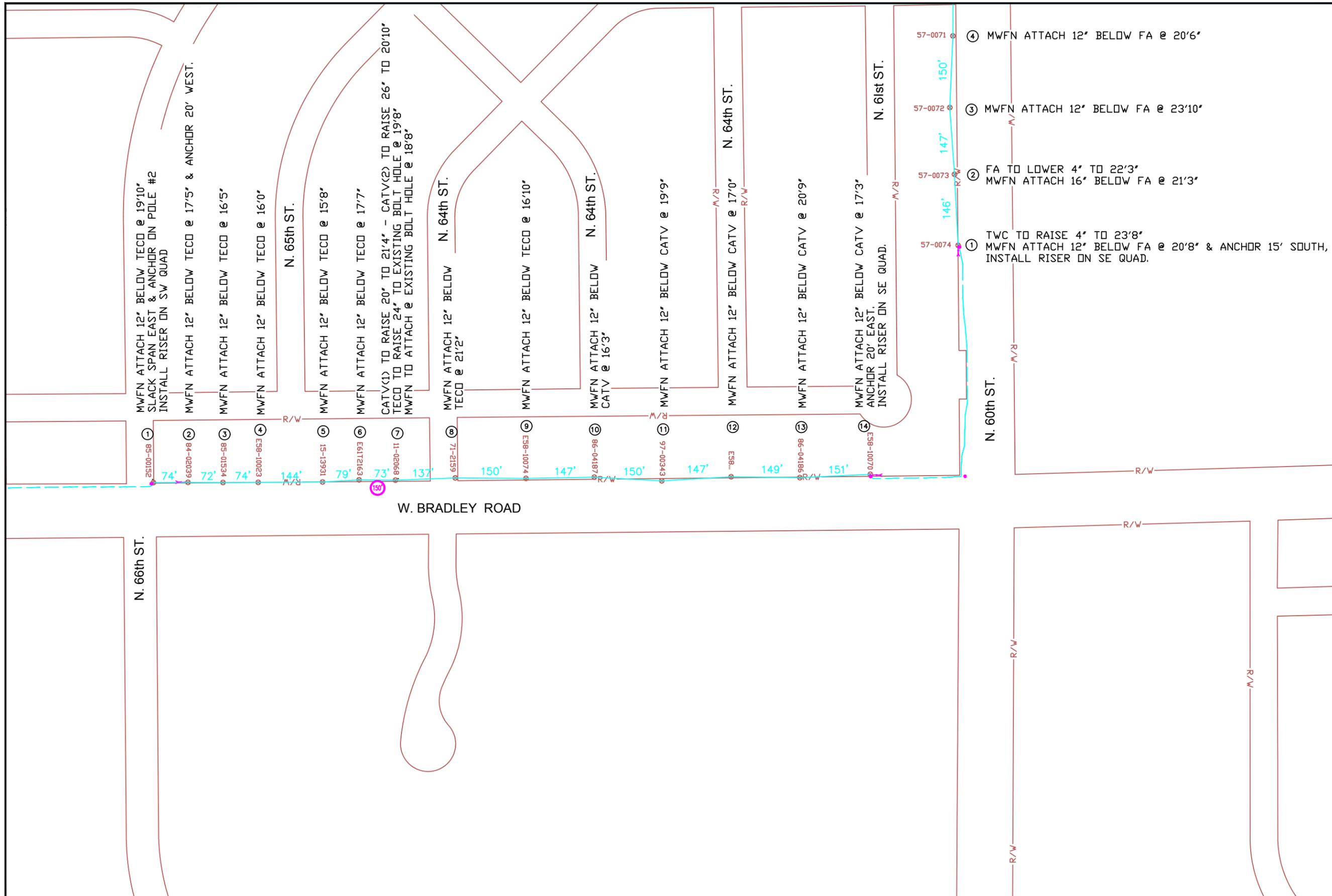
MUNICIPALITY BROWN DEER

Section: 10

Town: 8N

Range: 21E





SYMBOLS

2 x 1.25" HDPE SDR11	Innerducts / Tracer Wire
Station Mark	House / Building
Splice	Existing Handhole
Storage Loop	Existing Manhole
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Buried Cable Marker	Hydrant
New Aerial Fiber Cable	Sign
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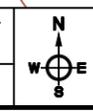
MIDWEST FIBER NETWORKS
Midwest Fiber Networks, LLC
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FIBER BUILD

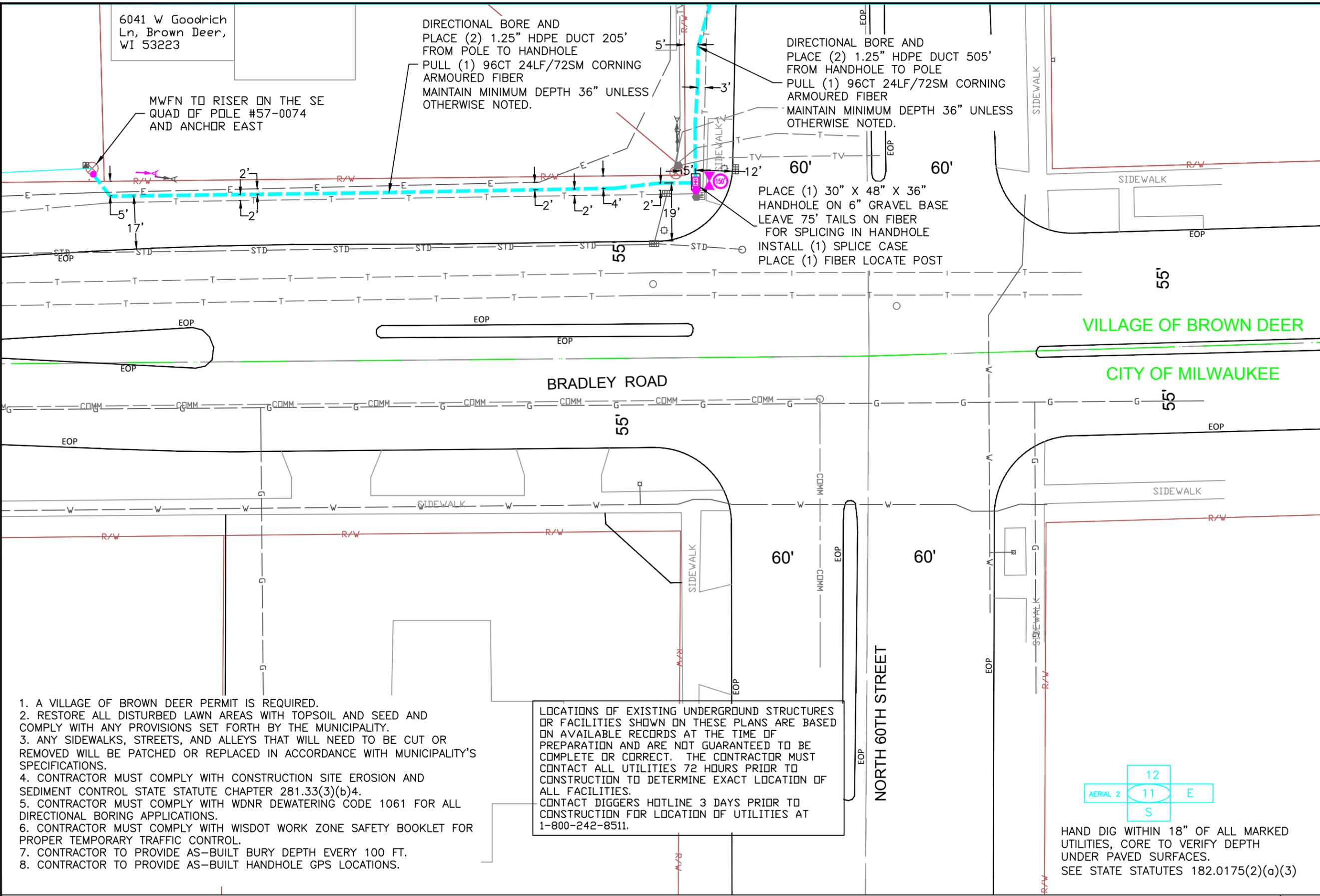
DRAWN BY :	DATE :
CHECKED BY :	DATE :
APPROVED BY :	DATE :
APPROVED BY :	DATE :
HORIZONTAL SCALE (DWG & PROF) :	1:200
VERTICAL SCALE (DWG) :	
VERTICAL SCALE (PROF) :	
MAP NUMBER	

PROPRIETARY INFORMATION NOT FOR DISCLOSURE This set of plans contains confidential or proprietary information, and the recipient must not disclose, copy, re-create, or distribute the plans or the information contained therein, either directly or indirectly, to other entities or individuals without written or express permission from MWFN.

County: MILWAUKEE Township: Municipality: MILWAUKEE Section: 9 Town: 8N Range: 21E



DRAWING NUMBER : AERIAL 2



SYMBOLS

2 x 1.25" HDPE SDR11	Innerducts / Tracer Wire
0+00 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	Tel Pole
Grounded	Gas Valve / Meter
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New Underground Fiber Cable	Mailbox
Township Line	Street/Traffic Light
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R/W Line	TV Ped
River/Stream	Ele Ped/Transformer
C/L Road	Deciduous Tree
RR Tracks	Evergreen Tree
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Oil Pipeline	Exis Tele
Gas Pipeline	Exis Aerial Fiber Cable
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Storm Sewer	
Exis US Telephone	
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Exis FiberOptic	
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G.I.P. Galvanized Iron Pipe	

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

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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"	

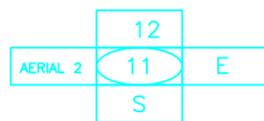
MIDWEST FIBER NETWORKS
Midwest Fiber Networks, LLC
 414.672.5612
 6070 N Flint Rd
 Glendale, WI 53209

FIBER BUILD
 1607019
 VZB FISERV - 2

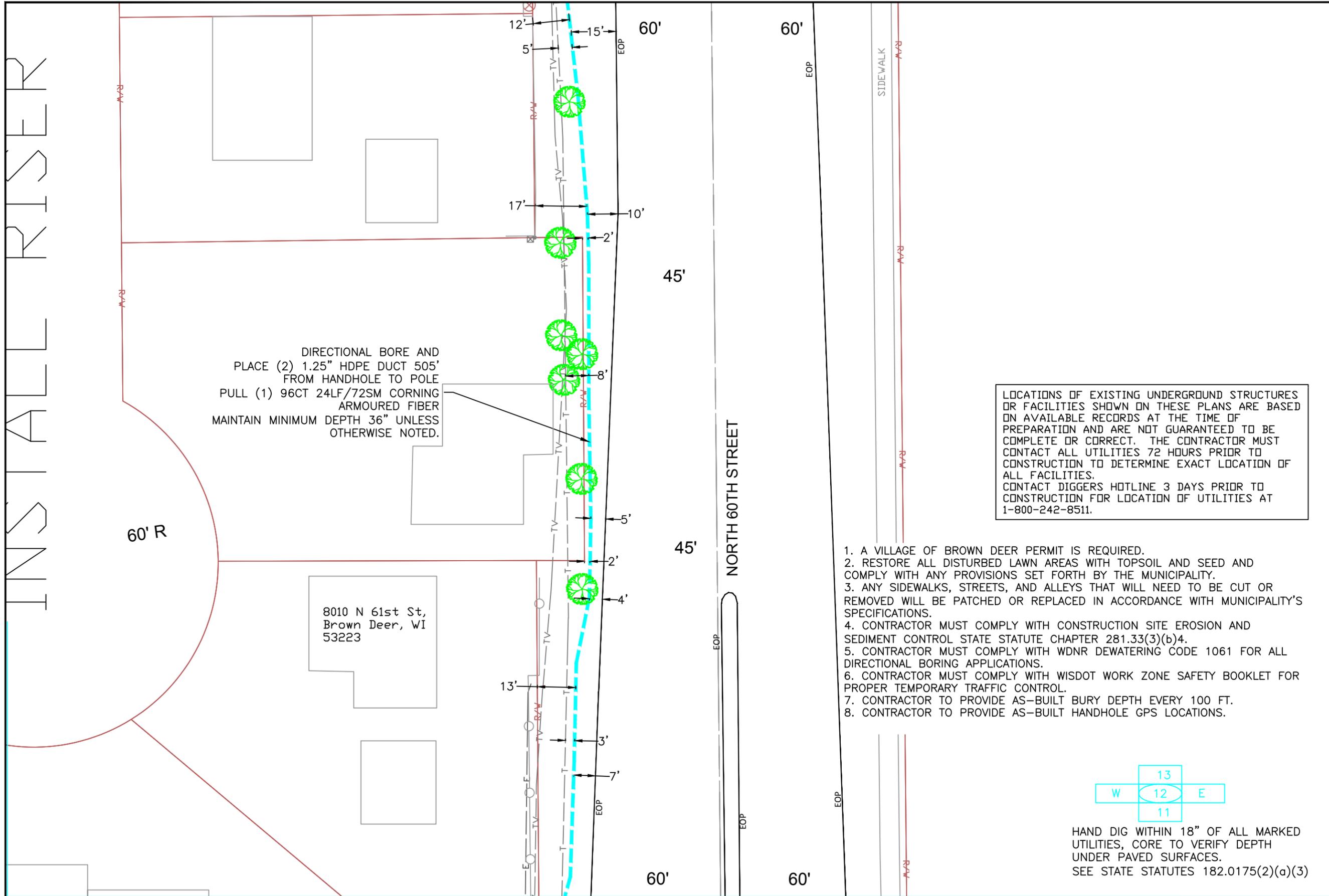
DRAWN BY : HWT	DATE :
CHECKED BY :	DATE :
APPROVED BY :	DATE :
APPROVED BY :	DATE :
HORIZONTAL SCALE (DWG & PROF) :	1" = 30'
VERTICAL SCALE (DWG) :	
VERTICAL SCALE (PROF) :	
MAP PROJECTION :	

1. A VILLAGE OF BROWN DEER 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.
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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.

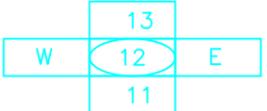


HAND DIG WITHIN 18" OF ALL MARKED UTILITIES, CORE TO VERIFY DEPTH UNDER PAVED SURFACES.
 SEE STATE STATUTES 182.0175(2)(a)(3)



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

SYMBOLS

2 x 1.25" HDPE SDR11 Innerducts / Tracer Wire	House / Building
0+00 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
C/L Road	Evergreen Tree
RR Tracks	Exls City Comm Line
Fence	Exls Tele
Oil Pipeline	Exls Aerial Fiber Cable
Gas Pipeline	Exls UG Fiber Cable
Water Line	Exls UG Power Line
San. Sewer	
Storm Sewer	
Exls UG Telephone	
Exls CATV	
Exls 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

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

DRAWING DISCLAIMER
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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"	

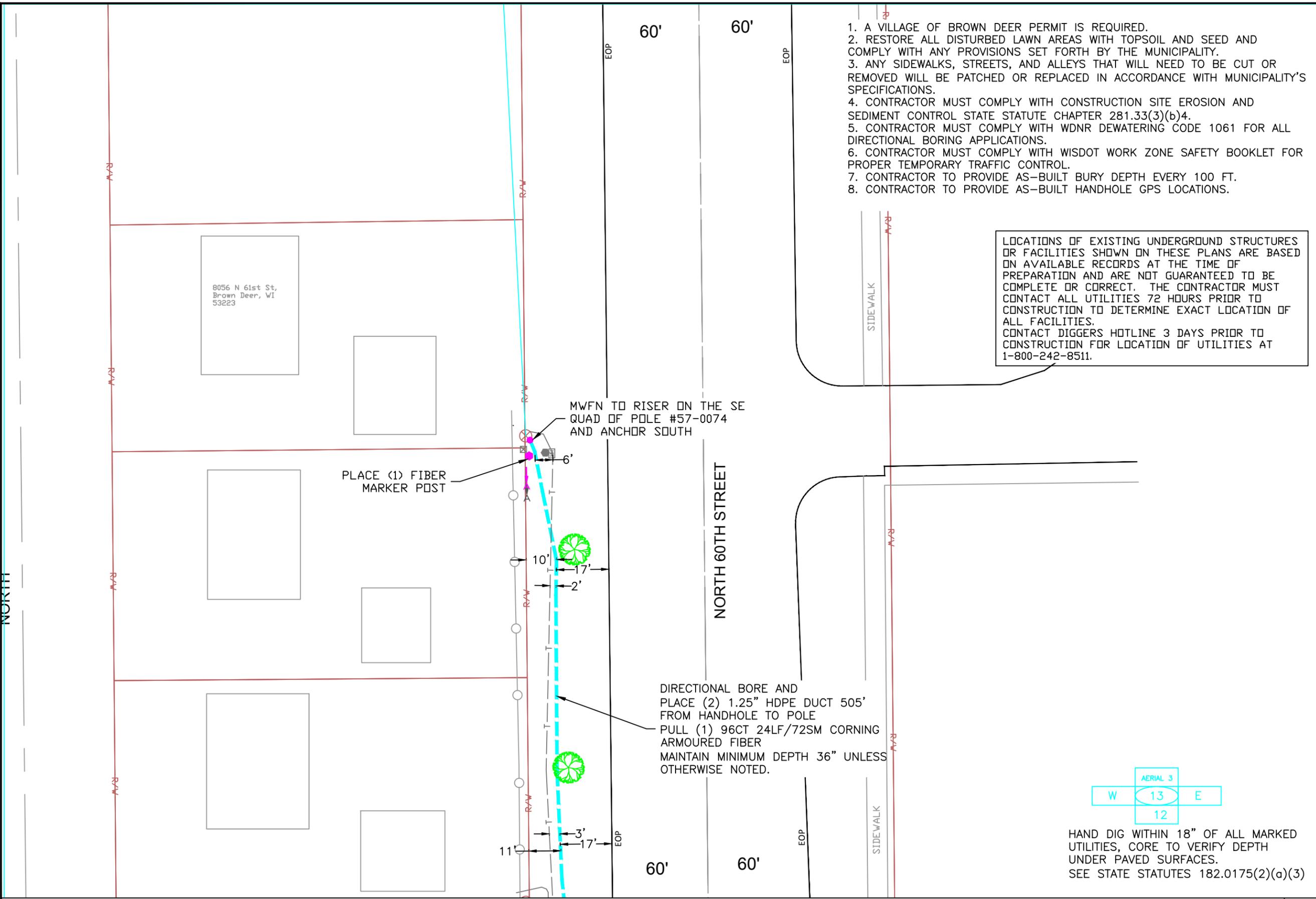
MIDWEST FIBER NETWORKS
Midwest Fiber Networks, LLC
 414.672.5612
 6070 N Flint Rd
 Glendale, WI 53209

FIBER BUILD
 1607019
 VZB FISERV - 2

DRAWN BY : HWT	DATE :
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 : 12 OF 39



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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	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
C/L Road	Ele Ped/Transformer
RR Tracks	Deciduous Tree
Fence	Evergreen Tree
Oil Pipeline	Exis City Comm Line
Gas Pipeline	Exis Tele
Water Line	Exis Aerial Fiber Cable
San. Sewer	Exis UG 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 #	
SPLICE TO SPLICE CABLE LENGTH:	
INNERDUCT & TYPE: HDPE	PIPE & INNERDUCT PLACEMENT
STEEL PIPE SIZE:	
PVC PIPE SIZE: 1.25"	

MIDWEST FIBER NETWORKS
Midwest Fiber Networks, LLC
 414.672.5612
 6070 N Flint Rd
 Glendale, WI 53209

FIBER BUILD
 1607019
 VZB FISERV - 2

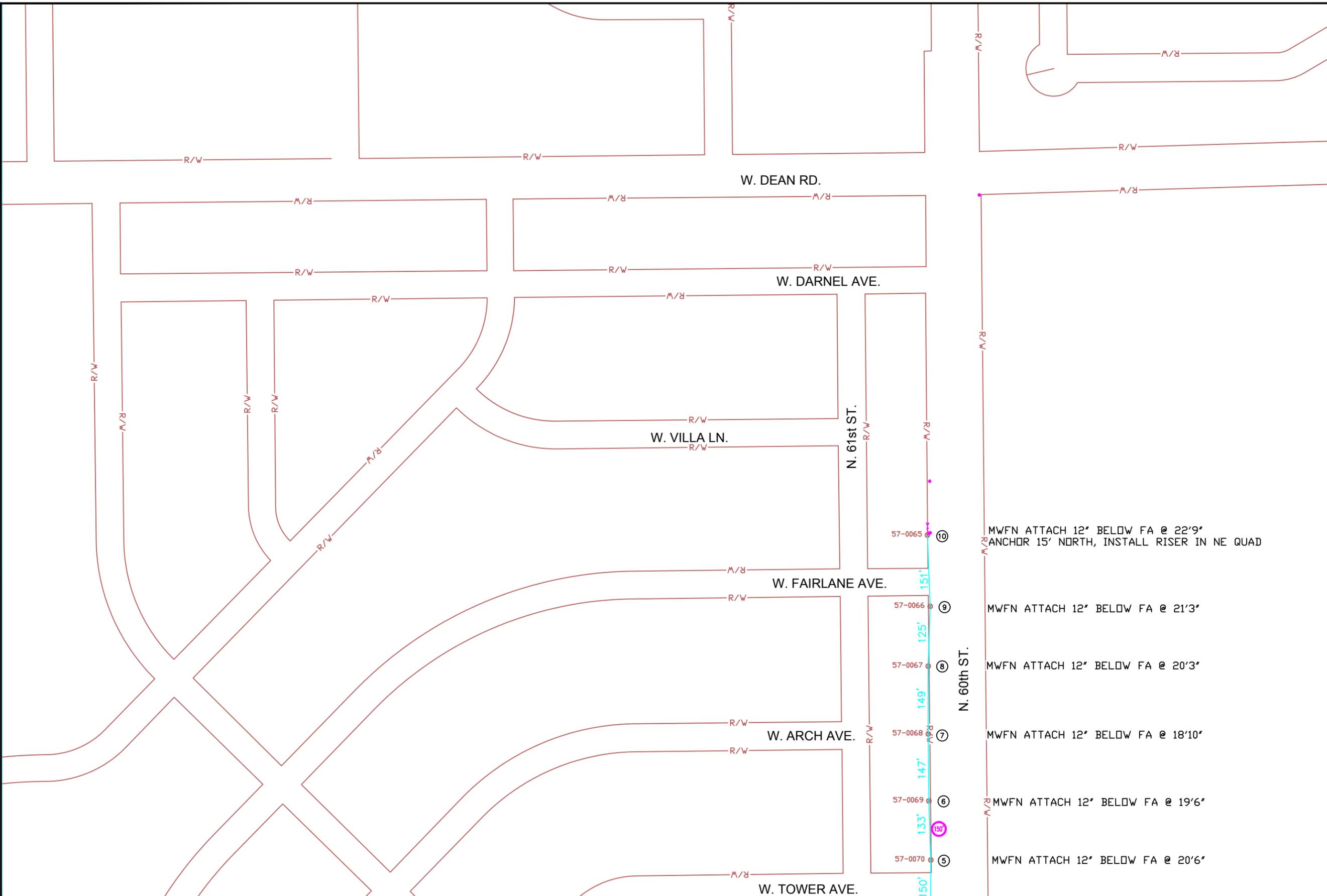
DRAWN BY : HWT	DATE :
CHECKED BY :	DATE :
APPROVED BY :	DATE :
APPROVED BY :	DATE :

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

DRAWING NUMBER : 13 OF 39



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



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
C/L Road	Evergreen Tree
RR Tracks	Exis City Comm Line
Fence	Exis Tele
Oil Pipeline	Exis Aerial Fiber Cable
Gas Pipeline	Exis UG Fiber Cable
Water Line	Exis UG Power Line
San. Sewer	
Storm Sewer	
Exis US Telephone	
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.:	
SPLICE TO SPLICE CABLE LENGTH:	
INNERDUCT & TYPE:	PIPE & INNERDUCT PLACEMENT:
STEEL PIPE SIZE:	
PVC PIPE SIZE:	

MIDWEST FIBER NETWORKS
Midwest Fiber Networks, LLC
 414.672.5612
 6070 N Flint Rd
 Glendale, WI 53209

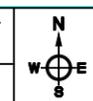
FIBER BUILD

DRAWN BY :	DATE :
CHECKED BY :	DATE :
APPROVED BY :	DATE :
APPROVED BY :	DATE :
HORIZONTAL SCALE (DWG & PROF) :	1:200
VERTICAL SCALE (DWG) :	
VERTICAL SCALE (PROF) :	
MAP NUMBER	

DRAWING NUMBER : AERIAL 3

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County: MILWAUKEE Township: Municipality: MILWAUKEE Section: 9 Town: 8N Range: 21E



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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.

8292 N 61st
St, Brown
Deer, WI
53223

DIRECTIONAL BORE AND
PLACE (2) 1.25" HDPE DUCT 110'
FROM HANDOLE TO BORE PIT
PULL (1) 96CT 24LF/72SM CORNING
ARMOURED FIBER
MAINTAIN MINIMUM DEPTH 36" UNLESS
OTHERWISE NOTED.

PLACE (1) 24" X 36" X 24"
HANDHOLE ON 6" GRAVEL BASE
LEAVE 150' SLACK IN HANDHOLE
PLACE (1) FIBER MARKER POST

DIRECTIONAL BORE AND
PLACE (2) 1.25" HDPE DUCT 110'
FROM POLE TO HANDOLE
PULL (1) 96CT 24LF/72SM CORNING
ARMOURED FIBER
MAINTAIN MINIMUM DEPTH 36" UNLESS
OTHERWISE NOTED.

MWFN TO RISER ON THE NE
QUAD OF POLE #57-0065
AND ANCHOR NORTH

DIRECTIONAL BORE AND
PLACE (2) 1.25" HDPE DUCT 625'
FROM BORE PIT TO HANDHOLE
PULL (1) 96CT 24LF/72SM CORNING
ARMOURED FIBER
MAINTAIN MINIMUM DEPTH 36" UNLESS
OTHERWISE NOTED.

PLACE (1) FIBER
MARKER POST

CAUTION: CROSSING
WATER MAIN IN DITCH

MAINTAIN MINIMUM 48" UNDER
PAVED SURFACES, CORE ANY
UTILITIES IN ROADWAY.

LOCATIONS OF EXISTING UNDERGROUND STRUCTURES
OR FACILITIES SHOWN ON THESE PLANS ARE BASED
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PREPARATION AND ARE NOT GUARANTEED TO BE
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CONTACT DIGGERS HOTLINE 3 DAYS PRIOR TO
CONSTRUCTION FOR LOCATION OF UTILITIES AT
1-800-242-8511.



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

SYMBOLS	
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
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 Aerial Fiber Cable	Exis Aerial Fiber Cable
Exis UG Fiber Cable	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			
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STEEL PIPE SIZE:	
PVC PIPE SIZE: 1.25"	

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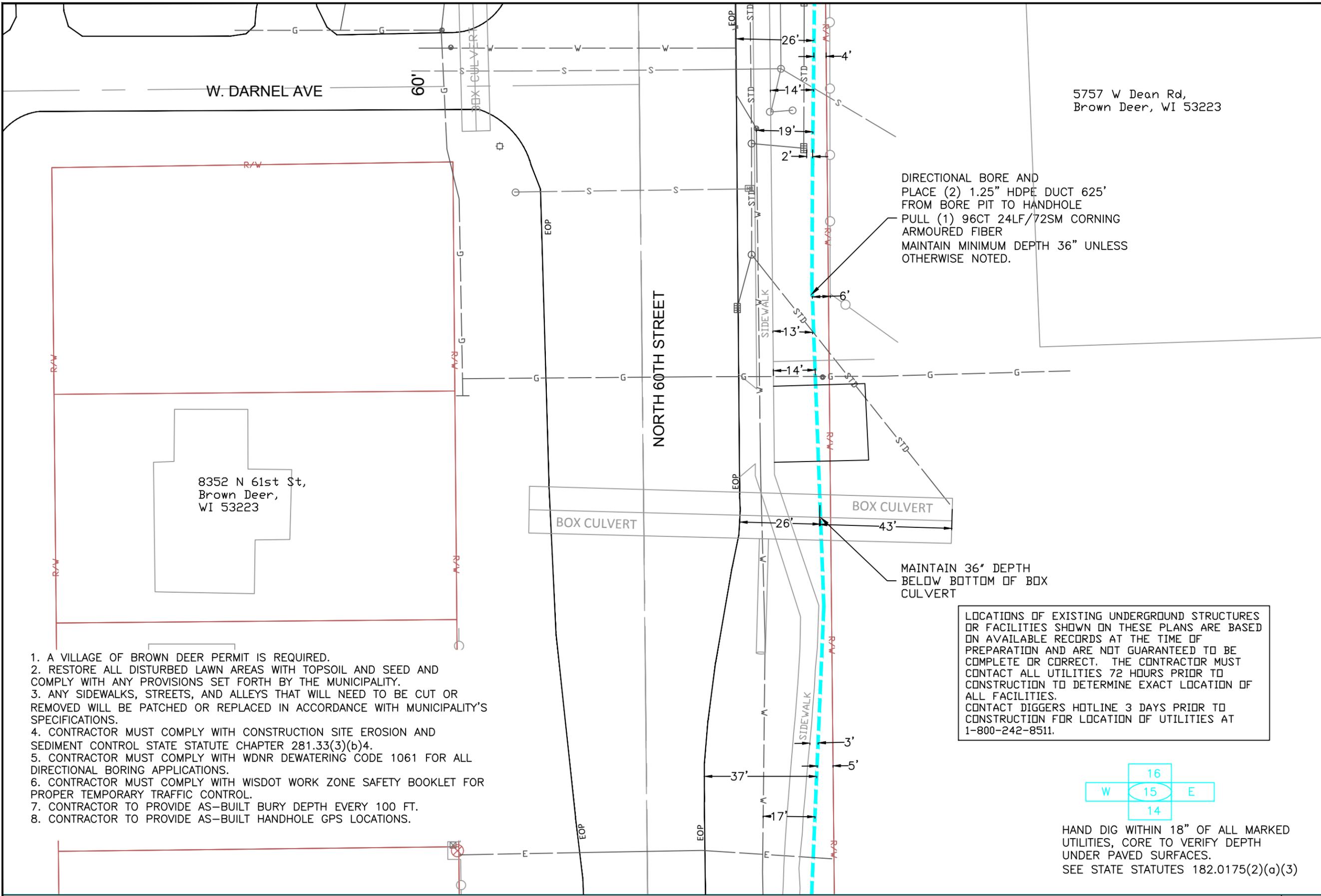
FIBER BUILD
1607019
VZB FISERV - 2

DRAWN BY: HWT	DATE:
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: 14 OF 39





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SYMBOLS

2 x 1.25" HDPE SDR11	Innerducts / Tracer Wire
0+00	Station Mark
Splice	House / Building
Storage Loop	Existing Handhole
Proposed Handhole	Existing Manhole
Proposed Anc/Dn Guy	Power Pole
Bond to Ground	Water Valve / Meter
Grounded	Tel Pole
Fiber Locate Marker Post	Gas Valve / Meter
Buried Cable Marker	Transmission Pole
New Aerial Fiber Cable	Hydrant
New Underground Fiber Cable	Sign
Township Line	Mailbox
City Limits	Street/Traffic Light
R/W Line	Tel Ped
River/Stream	TV Ped
C/L Road	Ele Ped/Transformer
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Fence	Evergreen Tree
Oil Pipeline	Exis City Comm Line
Gas Pipeline	Exis Tele
Water Line	Exis Aerial Fiber Cable
San. Sewer	Exis UG Fiber Cable
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PVC PIPE SIZE: 1.25"	

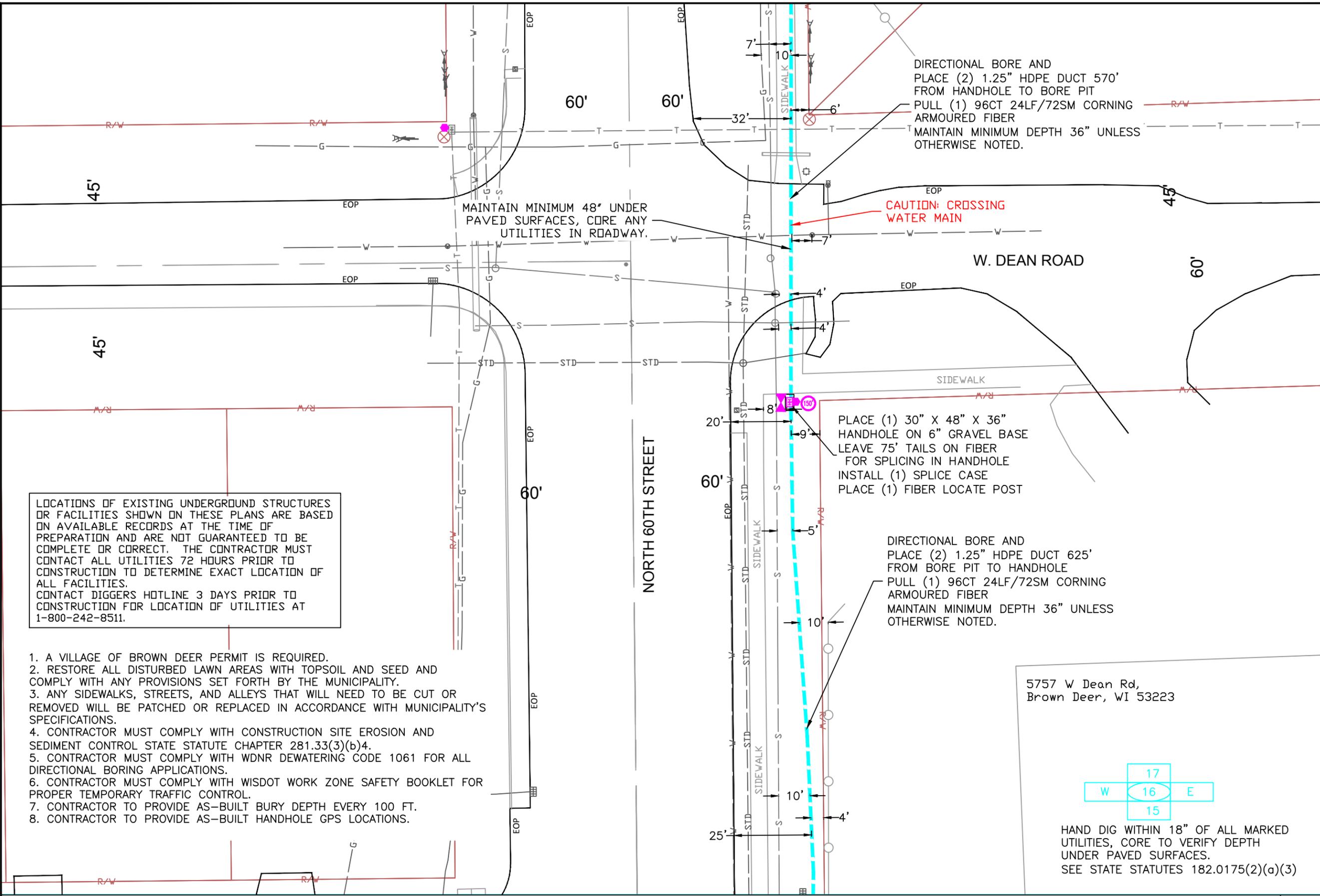
MIDWEST FIBER NETWORKS
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 6070 N Flint Rd
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FIBER BUILD
1607019
VZB FISERV - 2

DRAWN BY : HWT	DATE :
CHECKED BY :	DATE :
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APPROVED BY :	DATE :

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

DRAWING NUMBER : 15 OF 39



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.

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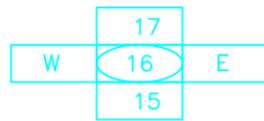
DIRECTIONAL BORE AND PLACE (2) 1.25" HDPE DUCT 570' FROM HANDHOLE TO BORE PIT
PULL (1) 96CT 24LF/72SM CORNING ARMoured FIBER
MAINTAIN MINIMUM DEPTH 36" UNLESS OTHERWISE NOTED.

CAUTION: CROSSING WATER MAIN

PLACE (1) 30" X 48" X 36" HANDHOLE ON 6" GRAVEL BASE
LEAVE 75' TAILS ON FIBER FOR SPLICING IN HANDHOLE
INSTALL (1) SPLICE CASE
PLACE (1) FIBER LOCATE POST

DIRECTIONAL BORE AND PLACE (2) 1.25" HDPE DUCT 625' FROM BORE PIT TO HANDHOLE
PULL (1) 96CT 24LF/72SM CORNING ARMoured FIBER
MAINTAIN MINIMUM DEPTH 36" UNLESS OTHERWISE NOTED.

5757 W Dean Rd,
Brown Deer, WI 53223



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

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
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City Limits	TV Ped
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C/L Road	Evergreen Tree
RR Tracks	Exis City Comm Line
Fence	Exis Tele
Oil Pipeline	Exis Aerial Fiber Cable
Gas Pipeline	Exis UG Fiber Cable
Water Line	Exis UG Power Line
San. Sewer	
Exis US	
Telephone	
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

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

DRAWING DISCLAIMER
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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 FIBER NETWORKS
Midwest Fiber Networks, LLC
414.672.5612
6070 N Flint Rd
Glendale, WI 53209

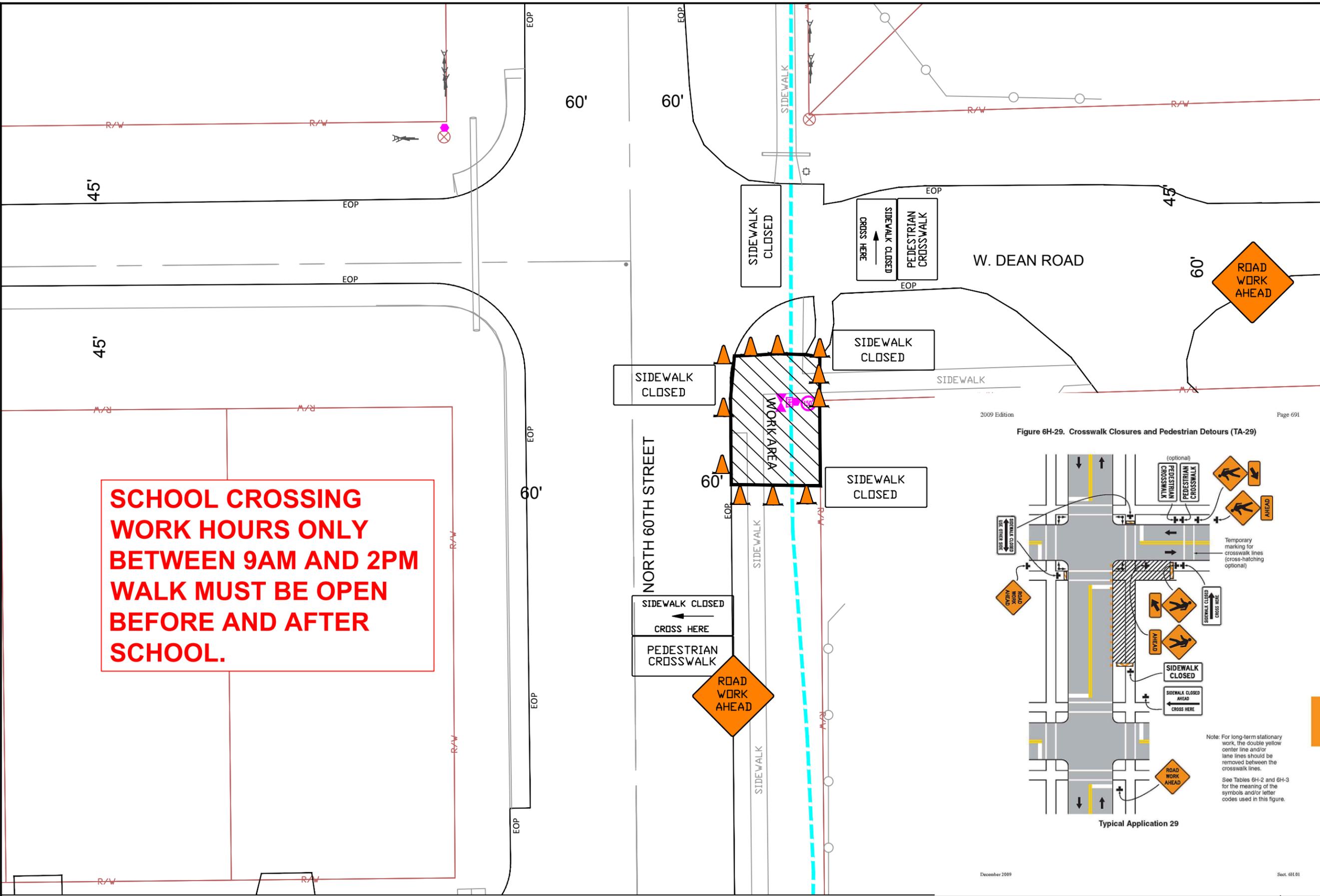
FIBER BUILD
1607019
VZB FISERV - 2

DRAWN BY : HWT	DATE :
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 : 16 OF 39





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	Tel Pole
Grounded	Gas Valve / Meter
Fiber Locate Marker Post	Transmission Pole
Buried Cable Marker	Hydrant
	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	
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San. Sewer	
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STEEL PIPE SIZE:	
PVC PIPE SIZE: 1.25"	

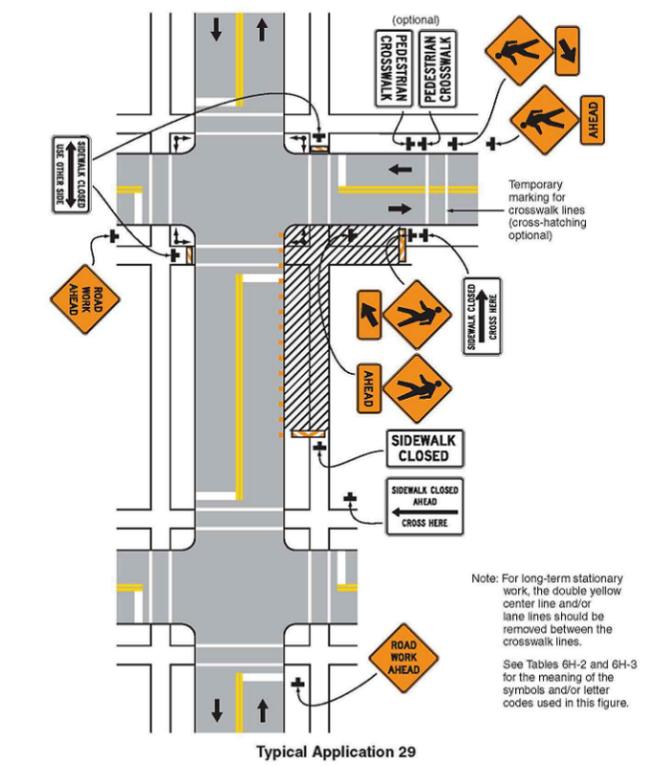
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 Glendale, WI 53209

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VERTICAL SCALE (DWG) :	
VERTICAL SCALE (PROF) :	
MAP PROJECTION :	

DRAWING NUMBER : 16 OF 39

Figure 6H-29. Crosswalk Closures and Pedestrian Detours (TA-29)

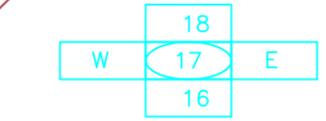


503 N 60th St,
Brown Deer, WI
53223

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8. CONTRACTOR TO PROVIDE AS-BUILT HANDHOLE GPS LOCATIONS.

DIRECTIONAL BORE AND PLACE (2) 1.25" HDPE DUCT 570' FROM HANDHOLE TO BORE PIT PULL (1) 96CT 24LF/72SM CORNING ARMoured FIBER MAINTAIN MINIMUM DEPTH 36" UNLESS OTHERWISE NOTED.



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

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
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River/Stream	Deciduous Tree
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Gas Pipeline	Exis UG Fiber Cable
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San. Sewer	
Storm Sewer	
Exis UG Telephone	
Exis CATV	
Exis FiberOptic	
B.I.P. Black Iron Pipe	
G.I.P. Galvanized Iron Pipe	

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INNERDUCT & TYPE: HDPE	PIPE & INNERDUCT PLACEMENT
STEEL PIPE SIZE:	
PVC PIPE SIZE: 1.25"	

MIDWEST FIBER NETWORKS
Midwest Fiber Networks, LLC
 414.672.5612
 6070 N Flint Rd
 Glendale, WI 53209

FIBER BUILD
 1607019
 VZB FISERV - 2

DRAWN BY: HWT	DATE:
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: 17 OF 39

8511 N 60th St,
Brown Deer, WI
53223

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8507 N 60th St,
Brown Deer, WI
53223

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NORTH 60TH STREET

W. DONNA DRIVE

DIRECTIONAL BORE AND PLACE (2) 1.25" HDPE DUCT 827' FROM BORE PIT TO BORE PIT PULL (1) 96CT 24LF/72SM CORNING ARMOURD FIBER MAINTAIN MINIMUM DEPTH 36" UNLESS OTHERWISE NOTED.

MAINTAIN MINIMUM 48" UNDER PAVED SURFACES, CORE ANY UTILITIES IN ROADWAY.

DIRECTIONAL BORE AND PLACE (2) 1.25" HDPE DUCT 570' FROM HANDHOLE TO BORE PIT PULL (1) 96CT 24LF/72SM CORNING ARMOURD FIBER MAINTAIN MINIMUM DEPTH 36" UNLESS OTHERWISE NOTED.

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

SYMBOLS	
2 x 1.25" HDPE SDR11 Innerducts / Tracer Wire	House / Building
0+00 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
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Fence	
Oil Pipeline	
Gas Pipeline	
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Storm Sewer	
Exis US Telephone	
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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STEEL PIPE SIZE:	
PVC PIPE SIZE: 1.25"	

MIDWEST FIBER NETWORKS
Midwest Fiber Networks, LLC
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6070 N Flint Rd
Glendale, WI 53209

FIBER BUILD
1607019
VZB FISERV - 2

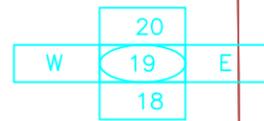
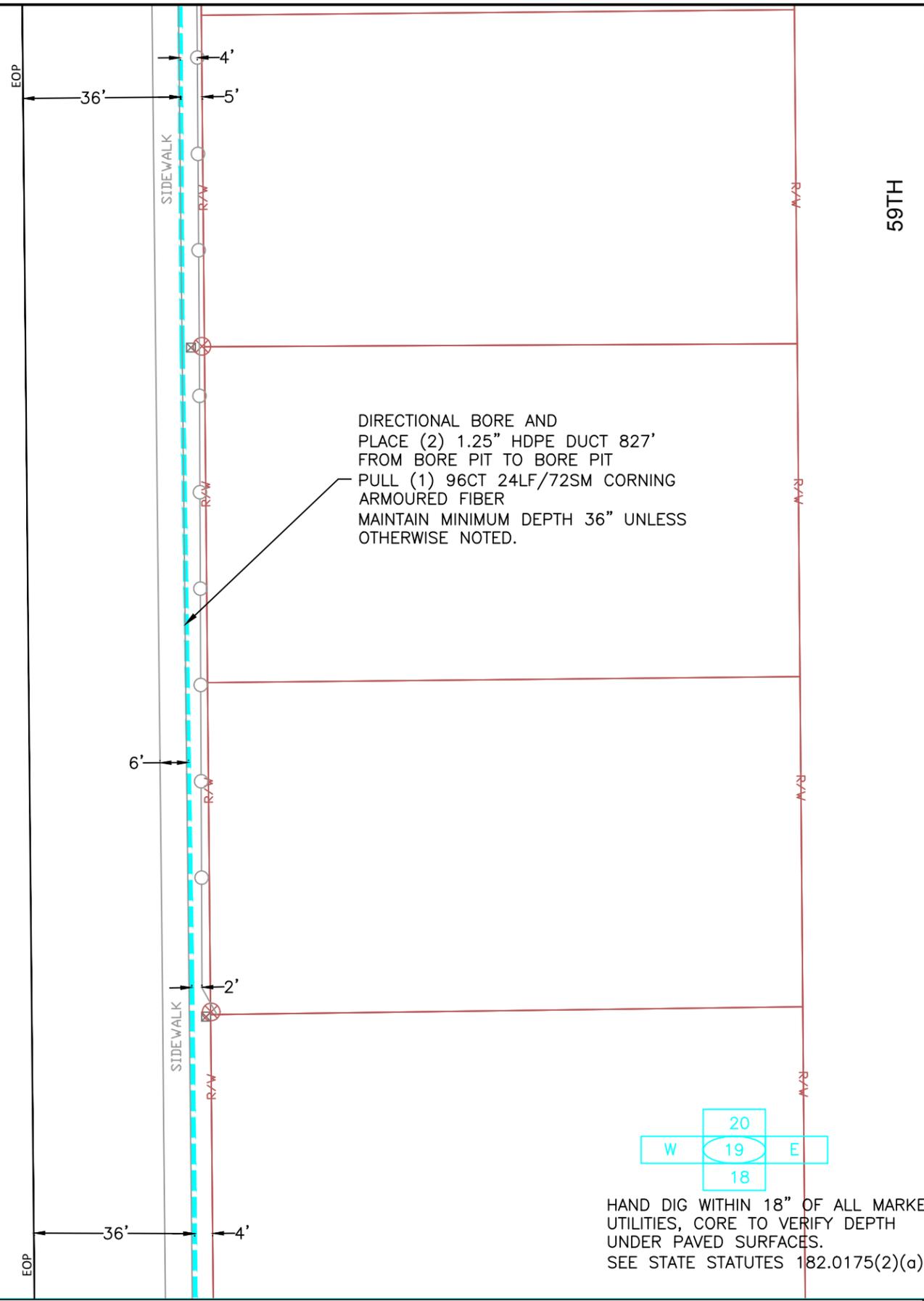
DRAWN BY : HWT	DATE :
CHECKED BY :	DATE :
APPROVED BY :	DATE :
APPROVED BY :	DATE :
HORIZONTAL SCALE (DWG & PROF) : 1" = 30'	
VERTICAL SCALE (DWG) :	
VERTICAL SCALE (PROF) :	
MAP PROJECTION :	
DRAWING NUMBER :	18 OF 39

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8. CONTRACTOR TO PROVIDE AS-BUILT HANDHOLE GPS LOCATIONS.

8515 N 60th St,
Brown Deer, WI
53223

NORTH 60TH STREET
60'



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

SYMBOLS

2 x 1.25" HDPE SDR11	Innerducts / Tracer Wire
0+00	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
—	River/Stream
—	C/L Road
—	RR Tracks
—	Fence
—	Oil Pipeline
—	Gas Pipeline
—	Water Line
—	San. Sewer
—	Storm Sewer
—	Exis US Telephone
—	Exis CATV
—	Exis FiberOptic
—	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
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 OSP ENGINEER: RICHARD TRGOVEC
 414-226-2205
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STEEL PIPE SIZE:	
PVC PIPE SIZE: 1.25"	

MIDWEST FIBER NETWORKS
Midwest Fiber Networks, LLC
 414.672.5612
 6070 N Flint Rd
 Glendale, WI 53209

FIBER BUILD
 1607019
 VZB FISERV - 2

DRAWN BY : HWT	DATE :
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APPROVED BY :	DATE :
APPROVED BY :	DATE :

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

DRAWING NUMBER : 19 OF 39

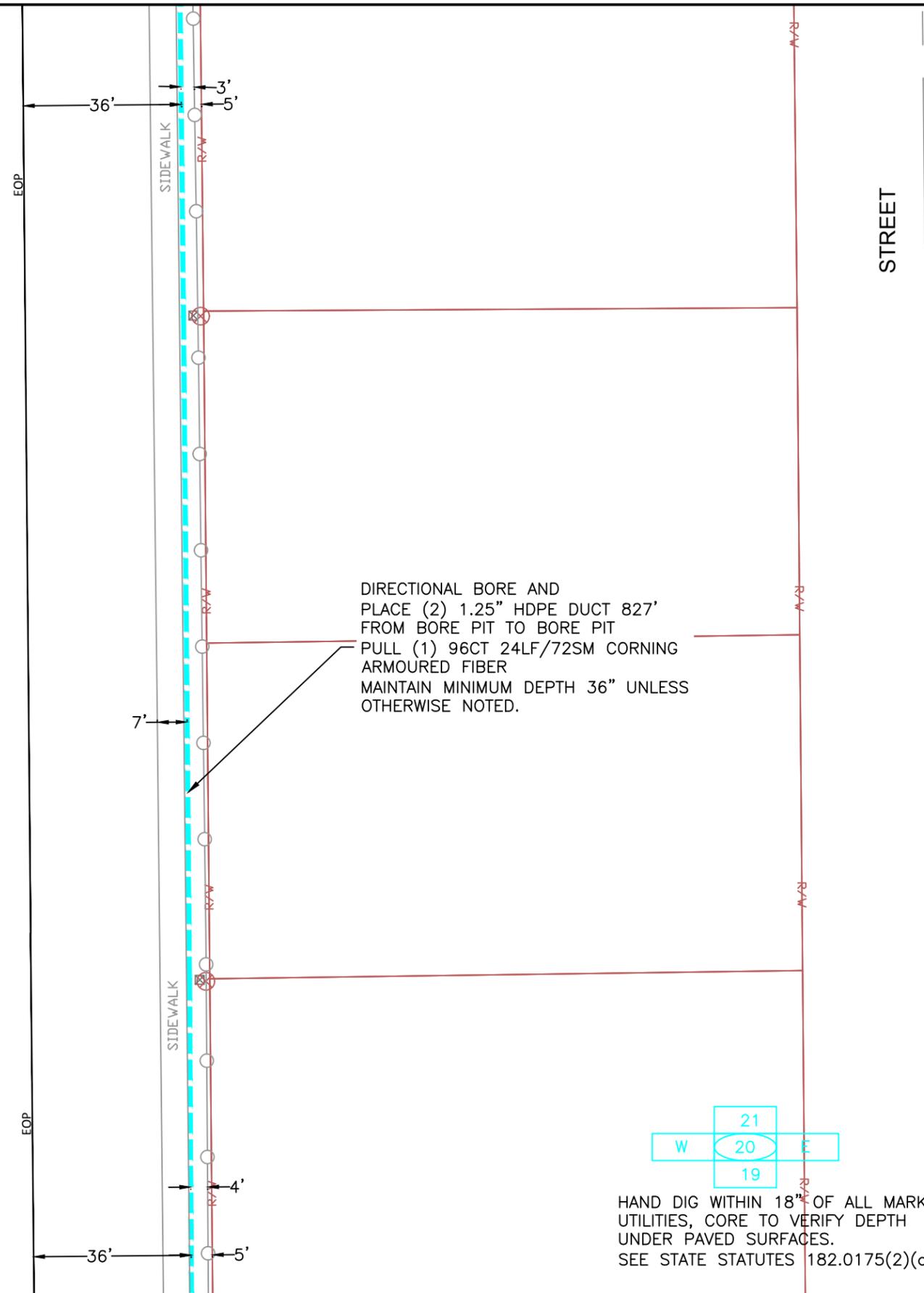
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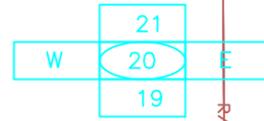
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NORTH 60TH STREET

STREET



DIRECTIONAL BORE AND PLACE (2) 1.25" HDPE DUCT 827' FROM BORE PIT TO BORE PIT
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SEE STATE STATUTES 182.0175(2)(a)(3)

SYMBOLS

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Splice	Existing Manhole
Storage Loop	Power Pole
Proposed Handhole	Water Valve / Meter
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PVC PIPE SIZE: 1.25"	

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FIBER BUILD
1607019
VZB FISERV - 2

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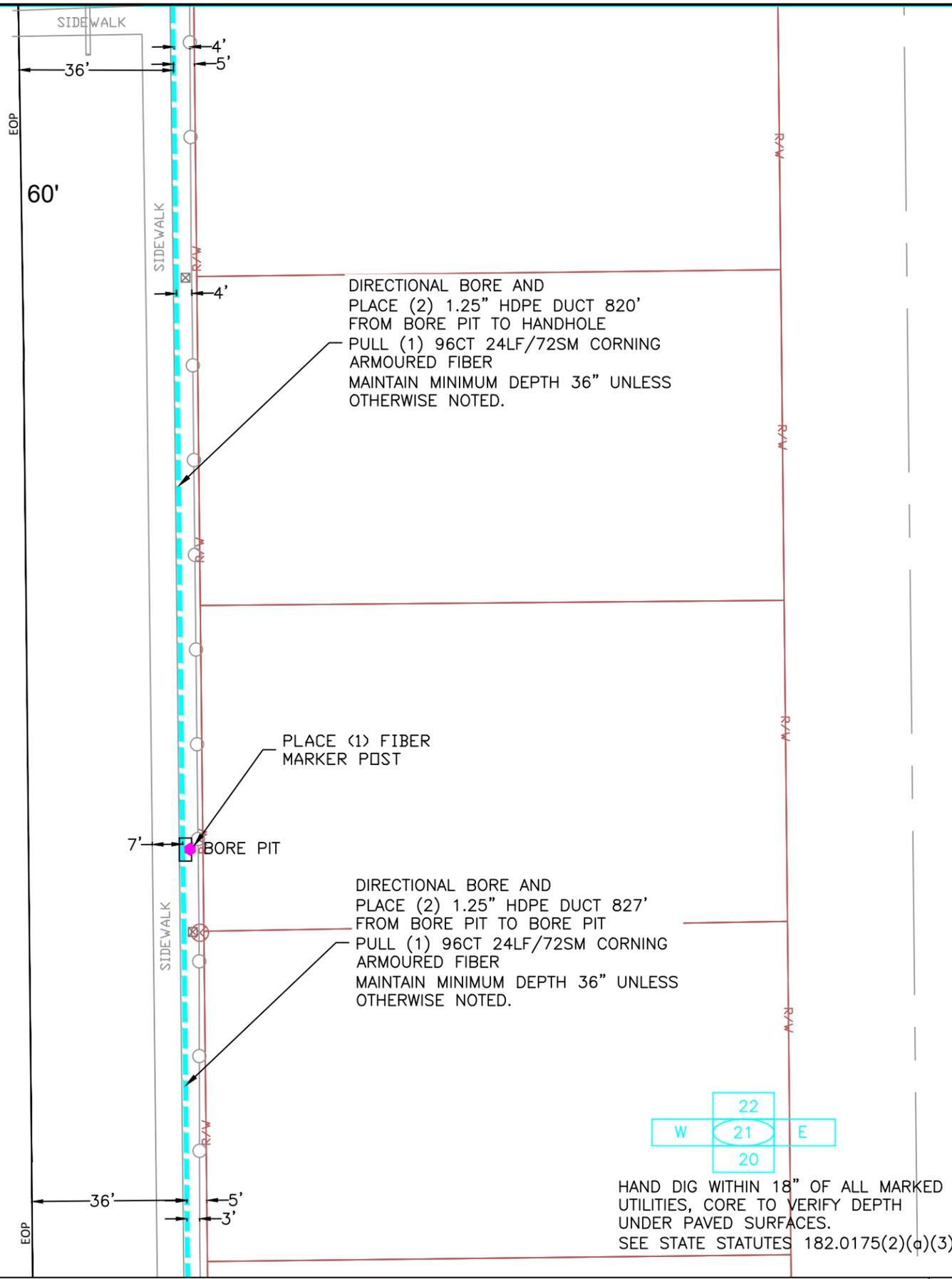


8635 N 60th St,
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NORTH 60TH STREET



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SEE STATE STATUTES 182.0175(2)(a)(3)

SYMBOLS

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⊕	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

DIGGERS HOTLINE
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	PIPE & INNERDUCT PLACEMENT
STEEL PIPE SIZE:	
PVC PIPE SIZE: 1.25"	

MIDWEST FIBER NETWORKS
Midwest Fiber Networks, LLC
414.672.5612
6070 N Flint Rd
Glendale, WI 53209

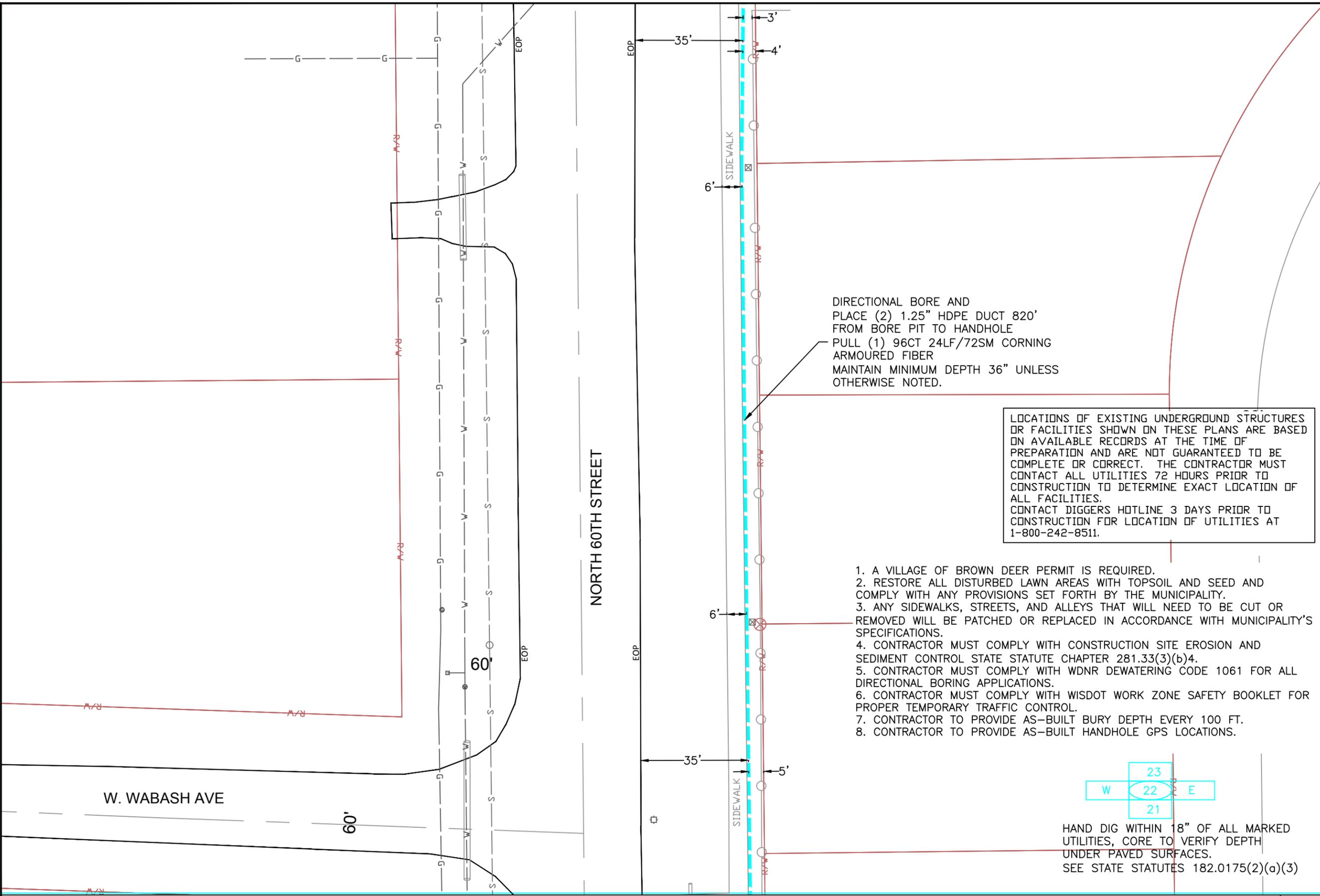
FIBER BUILD
1607019
VZB FISERV - 2

DRAWN BY : HWT	DATE :
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 : 21 OF 39





DIRECTIONAL BORE AND PLACE (2) 1.25" HDPE DUCT 820' FROM BORE PIT TO HANDHOLE
 PULL (1) 96CT 24LF/72SM CORNING ARMOURD FIBER
 MAINTAIN MINIMUM DEPTH 36" UNLESS OTHERWISE NOTED.

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 VILLAGE OF BROWN DEER 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.
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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.



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

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
C/L Road	Evergreen Tree
RR Tracks	Exis City Comm Line
Fence	Exis Tele
Oil Pipeline	Exis Aerial Fiber Cable
Gas Pipeline	Exis UG Fiber Cable
Water Line	Exis UG Power Line
San. Sewer	
Exis US	
Telephone	
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

DIGGERS HOTLINE
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 OR
 TOLL FREE (800) 242-8511
 www.diggershotline.com

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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 FIBER NETWORKS
Midwest Fiber Networks, LLC
 414.672.5612
 6070 N Flint Rd
 Glendale, WI 53209

FIBER BUILD
 1607019
 VZB FISERV - 2

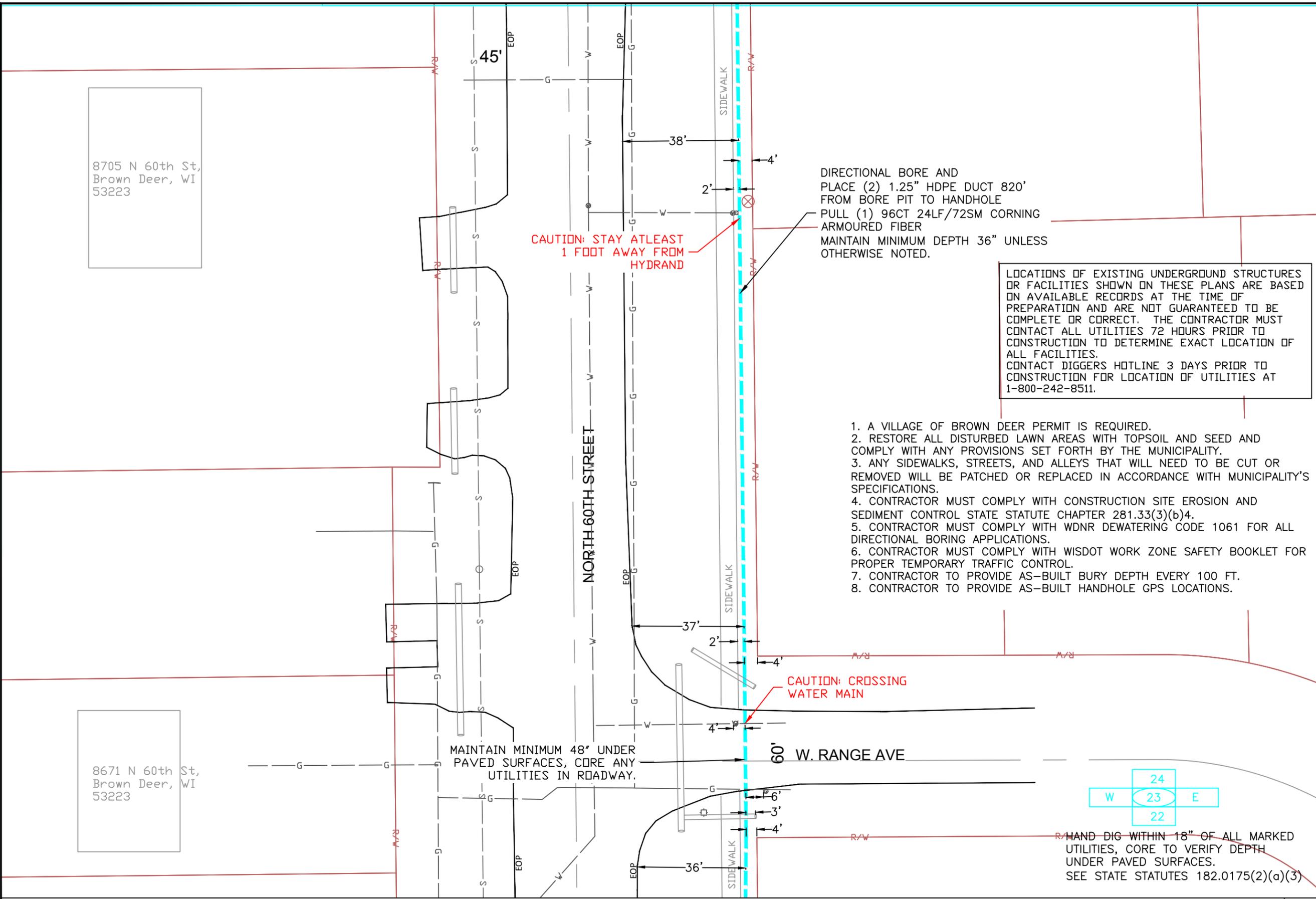
DRAWN BY : HWT	DATE :
CHECKED BY :	DATE :
APPROVED BY :	DATE :
APPROVED BY :	DATE :
HORIZONTAL SCALE (DWG & PROF) : 1" = 30'	
VERTICAL SCALE (DWG) :	
VERTICAL SCALE (PROF) :	
MAP PROJECTION :	

DRAWING NUMBER : 22 OF 39



8705 N 60th St,
Brown Deer, WI
53223

8671 N 60th St,
Brown Deer, WI
53223



CAUTION: STAY ATLEAST
1 FOOT AWAY FROM
HYDRANT

DIRECTIONAL BORE AND
PLACE (2) 1.25" HDPE DUCT 820'
FROM BORE PIT TO HANDHOLE
PULL (1) 96CT 24LF/72SM CORNING
ARMOURED FIBER
MAINTAIN MINIMUM DEPTH 36" UNLESS
OTHERWISE NOTED.

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 VILLAGE OF BROWN DEER PERMIT IS REQUIRED.
2. RESTORE ALL DISTURBED LAWN AREAS WITH TOPSOIL AND SEED AND COMPLY WITH ANY PROVISIONS SET FORTH BY THE MUNICIPALITY.
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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: CROSSING
WATER MAIN

MAINTAIN MINIMUM 48" UNDER
PAVED SURFACES, CORE ANY
UTILITIES IN ROADWAY.

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



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
C/L Road	Evergreen Tree
RR Tracks	Exis City Comm Line
Fence	Exis Tele
Oil Pipeline	Exis Aerial Fiber Cable
Gas Pipeline	Exis UG Fiber Cable
Water Line	Exis UG Power Line
San. Sewer	
Exis US Storm Sewer	
Exis US Telephone	
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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OR
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www.diggershotline.com

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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 FIBER NETWORKS
Midwest Fiber Networks, LLC
414.672.5612
6070 N Flint Rd
Glendale, WI 53209

FIBER BUILD
1607019
VZB FISERV - 2

DRAWN BY : HWT	DATE :
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 : 23 OF 39

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.

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7. CONTRACTOR TO PROVIDE AS-BUILT BURY DEPTH EVERY 100 FT.
8. CONTRACTOR TO PROVIDE AS-BUILT HANDHOLE GPS LOCATIONS.

SYMBOLS

2 x 1.25" HDPE SDR11	Innerducts / Tracer Wire
0+00	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
—	River/Stream
—	C/L Road
—	RR Tracks
—	Fence
—	Oil Pipeline
—	Gas Pipeline
—	Water Line
—	San. Sewer
—	Storm Sewer
—	Exis US
—	Telephone
—	Exis CATV
—	Exis FiberOptic
—	B.I.P. Black Iron Pipe
—	G.I.P. Galvanized Iron Pipe
⊕	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
 OSP ENGINEER: RICHARD TRGOVEC
 414-226-2205
 EMERGENCY NOTIFICATION NUMBER: 1-866-831-1661

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 OR
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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"	

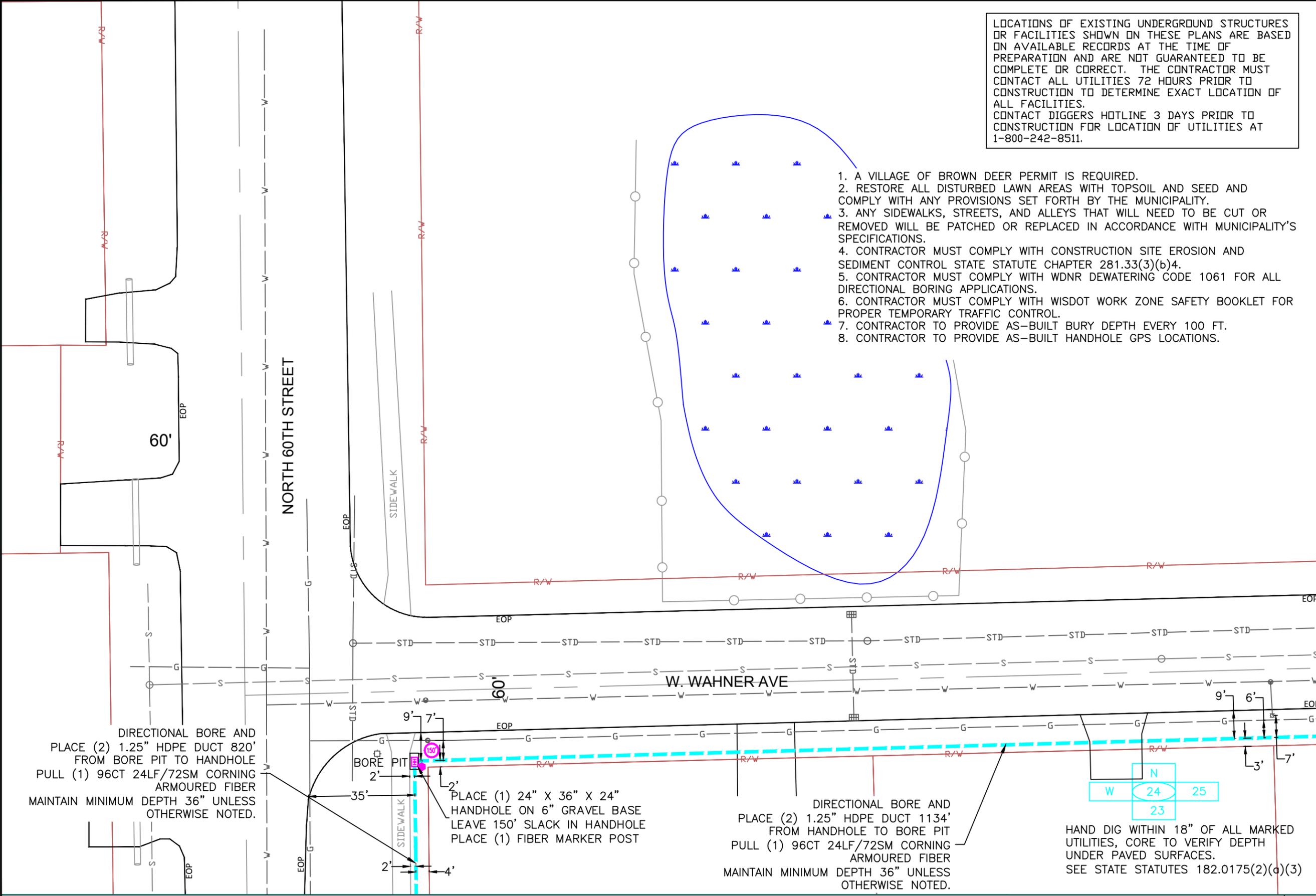
MIDWEST FIBER NETWORKS
Midwest Fiber Networks, LLC
 414.672.5612
 6070 N Flint Rd
 Glendale, WI 53209

FIBER BUILD
 1607019
 VZB FISERV - 2

DRAWN BY: HWT	DATE:
CHECKED BY:	DATE:
APPROVED BY:	DATE:
APPROVED BY:	DATE:

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

DRAWING NUMBER: 24 OF 39



DIRECTIONAL BORE AND PLACE (2) 1.25" HDPE DUCT 820' FROM BORE PIT TO HANDHOLE PULL (1) 96CT 24LF/72SM CORNING ARMoured FIBER MAINTAIN MINIMUM DEPTH 36" UNLESS OTHERWISE NOTED.

PLACE (1) 24" X 36" X 24" HANDHOLE ON 6" GRAVEL BASE LEAVE 150' SLACK IN HANDHOLE PLACE (1) FIBER MARKER POST

DIRECTIONAL BORE AND PLACE (2) 1.25" HDPE DUCT 1134' FROM HANDHOLE TO BORE PIT PULL (1) 96CT 24LF/72SM CORNING ARMoured FIBER MAINTAIN MINIMUM DEPTH 36" UNLESS OTHERWISE NOTED.

HAND DIG WITHIN 18" OF ALL MARKED UTILITIES, CORE TO VERIFY DEPTH UNDER PAVED SURFACES. SEE STATE STATUTES 182.0175(2)(d)(3)



1. A VILLAGE OF BROWN DEER PERMIT IS REQUIRED.
2. RESTORE ALL DISTURBED LAWN AREAS WITH TOPSOIL AND SEED AND COMPLY WITH ANY PROVISIONS SET FORTH BY THE MUNICIPALITY.
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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.



SYMBOLS	
2 x 1.25" HDPE SDR11 Innerducts / Tracer Wire	House / Building
0+00 Station Mark	Existing Handhole
Splice	Existing Manhole
100' 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
C/L Road	Evergreen Tree
RR Tracks	Exis City Comm Line
Fence	Exis Tele
Oil Pipeline	Exis Aerial Fiber Cable
Gas Pipeline	Exis UG Fiber Cable
Water Line	Exis UG Power Line
San. Sewer	
Storm Sewer	
Exis UG Telephone	
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

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 FIBER NETWORKS
Midwest Fiber Networks, LLC
 414.672.5612
 6070 N Flint Rd
 Glendale, WI 53209

FIBER BUILD
 1607019
 VZB FISERV - 2

DRAWN BY : HWT	DATE :
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 :	25 OF 39

DIRECTIONAL BORE AND PLACE (2) 1.25" HDPE DUCT 1134' FROM HANDHOLE TO BORE PIT PULL (1) 96CT 24LF/72SM CORNING ARMoured FIBER MAINTAIN MINIMUM DEPTH 36" UNLESS OTHERWISE NOTED.

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



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8. CONTRACTOR TO PROVIDE AS-BUILT HANDHOLE GPS LOCATIONS.

5700 W Wahner Ave,
Brown Deer, WI 53223

DIRECTIONAL BORE AND PLACE (2) 1.25" HDPE DUCT 340' FROM BORE PIT TO BORE PIT PULL (1) 96CT 24LF/72SM CORNING ARMOURD FIBER MAINTAIN MINIMUM DEPTH 36" UNLESS OTHERWISE NOTED.

MAINTAIN MINIMUM 48" UNDER PAVED SURFACES, CORE ANY UTILITIES IN ROADWAY.

DIRECTIONAL BORE AND PLACE (2) 1.25" HDPE DUCT 1134' FROM HANDHOLE TO BORE PIT PULL (1) 96CT 24LF/72SM CORNING ARMOURD FIBER MAINTAIN MINIMUM DEPTH 36" UNLESS OTHERWISE NOTED.

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

CAUTION: CROSSING WATER MAIN

SYMBOLS	
2 x 1.25" HDPE SDR11 Innerducts / Tracer Wire	House / Building
0+00 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
C/L Road	Evergreen Tree
RR Tracks	Exis City Comm Line
Fence	Exis Tele
Oil Pipeline	Exis Aerial Fiber Cable
Gas Pipeline	Exis UG Fiber Cable
Water Line	Exis UG Power Line
San. Sewer	
Storm Sewer	
Exis UG Telephone	
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 #	
SPLICE TO SPLICE CABLE LENGTH:	
INNERDUCT & TYPE: HDPE	PIPE & INNERDUCT PLACEMENT
STEEL PIPE SIZE:	
PVC PIPE SIZE: 1.25"	

MIDWEST FIBER NETWORKS
Midwest Fiber Networks, LLC
414.672.5612
6070 N Flint Rd
Glendale, WI 53209

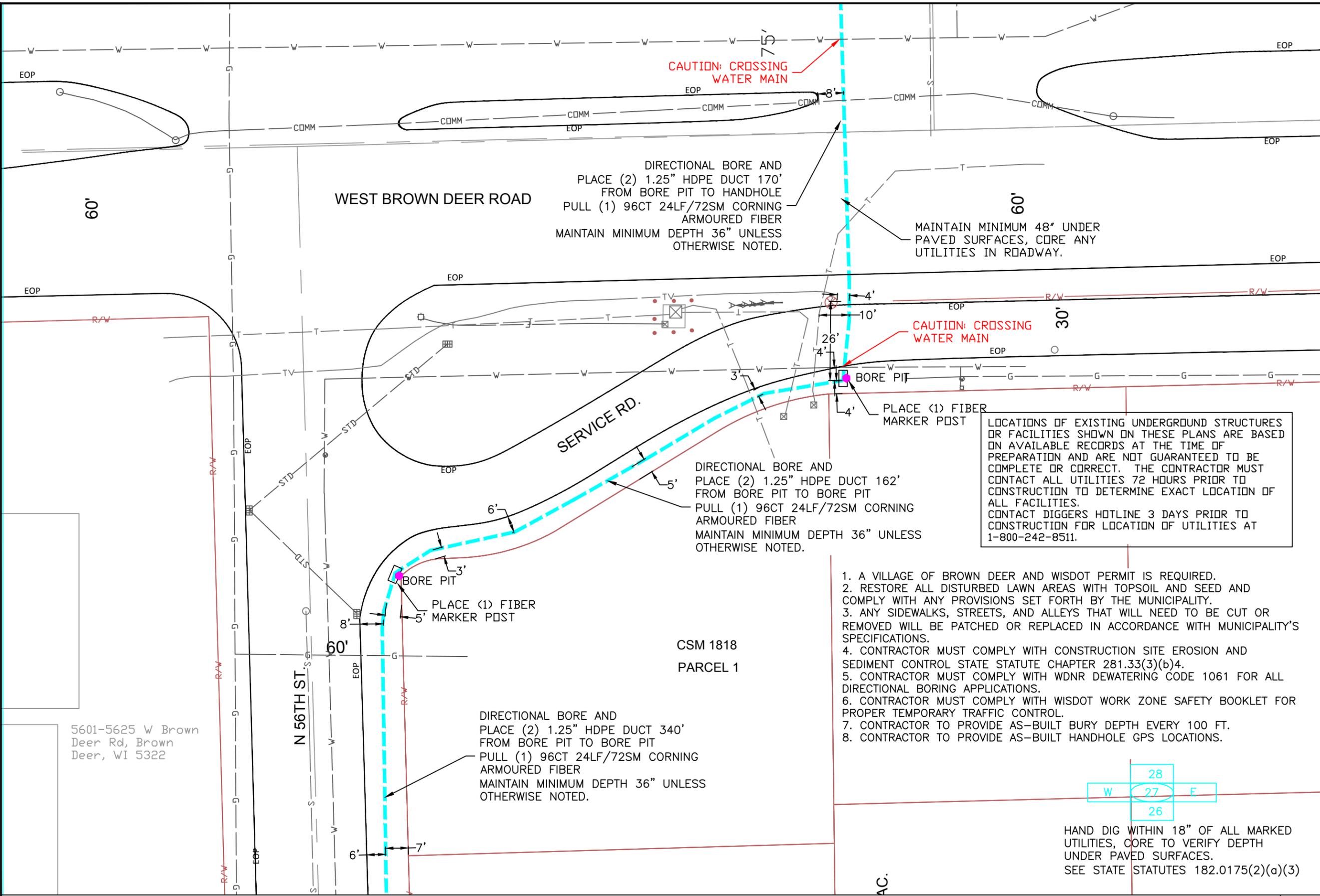
FIBER BUILD
1607019
VZB FISERV - 2

DRAWN BY : HWT	DATE :
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 : 26 OF 39





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
C/L Road	Evergreen Tree
RR Tracks	Exis City Comm Line
Fence	Exis Tele
Oil Pipeline	Exis Aerial Fiber Cable
Gas Pipeline	Exis UG Fiber Cable
Water Line	Exis UG Power Line
San. Sewer	
Storm Sewer	
Exis UG Telephone	
Exis CATV	
Exis FiberOptic	
B.I.P. Black Iron Pipe	
G.I.P. Galvanized Iron Pipe	

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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 FIBER NETWORKS
Midwest Fiber Networks, LLC
 414.672.5612
 6070 N Flint Rd
 Glendale, WI 53209

FIBER BUILD
 1607019
 VZB FISERV - 2

DRAWN BY: HWT	DATE:
CHECKED BY:	DATE:
APPROVED BY:	DATE:
APPROVED BY:	DATE:

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

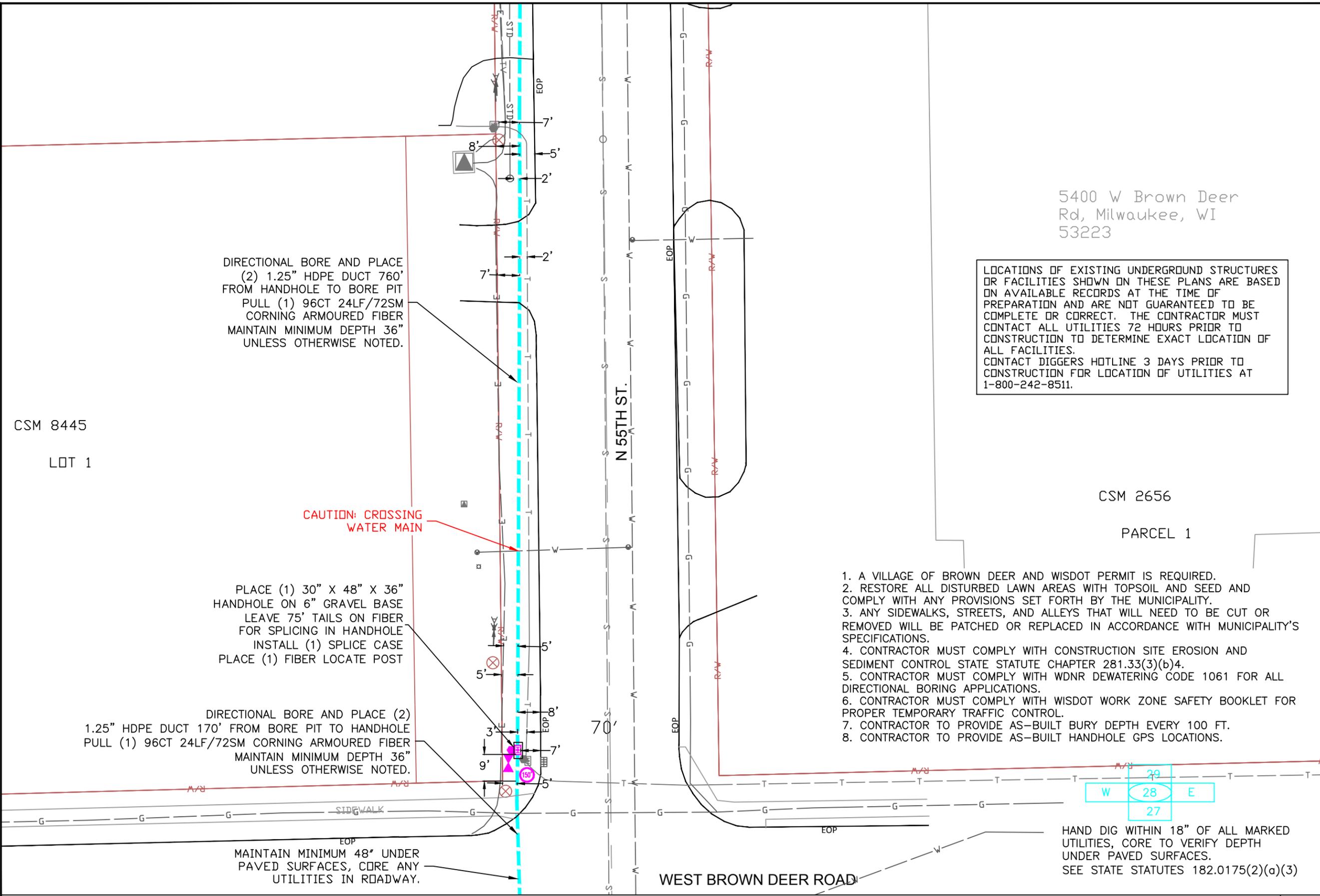
DRAWING NUMBER: 27 OF 39

1. A VILLAGE OF BROWN DEER AND WISDOT 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.
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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.



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



DIRECTIONAL BORE AND PLACE (2) 1.25" HDPE DUCT 760' FROM HANDHOLE TO BORE PIT PULL (1) 96CT 24LF/72SM CORNING ARMoured FIBER MAINTAIN MINIMUM DEPTH 36" UNLESS OTHERWISE NOTED.

PLACE (1) 30" X 48" X 36" HANDHOLE ON 6" GRAVEL BASE LEAVE 75' TAILS ON FIBER FOR SPLICING IN HANDHOLE INSTALL (1) SPLICE CASE PLACE (1) FIBER LOCATE POST

DIRECTIONAL BORE AND PLACE (2) 1.25" HDPE DUCT 170' FROM BORE PIT TO HANDHOLE PULL (1) 96CT 24LF/72SM CORNING ARMoured FIBER MAINTAIN MINIMUM DEPTH 36" UNLESS OTHERWISE NOTED.

MAINTAIN MINIMUM 48" UNDER PAVED SURFACES, CORE ANY UTILITIES IN ROADWAY.

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.

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5400 W Brown Deer Rd, Milwaukee, WI 53223

CSM 2656
PARCEL 1



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

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
C/L Road	Evergreen Tree
RR Tracks	Exis City Comm Line
Fence	Exis Tele
Oil Pipeline	Exis Aerial Fiber Cable
Gas Pipeline	Exis UG Fiber Cable
Water Line	Exis UG Power Line
San. Sewer	
Exis UG Storm Sewer	
Exis UG Telephone	
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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INNERDUCT & TYPE: HDPE	PIPE & INNERDUCT PLACEMENT
STEEL PIPE SIZE:	
PVC PIPE SIZE: 1.25"	

MIDWEST FIBER NETWORKS
Midwest Fiber Networks, LLC
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FIBER BUILD
 1607019
 VZB FISERV - 2

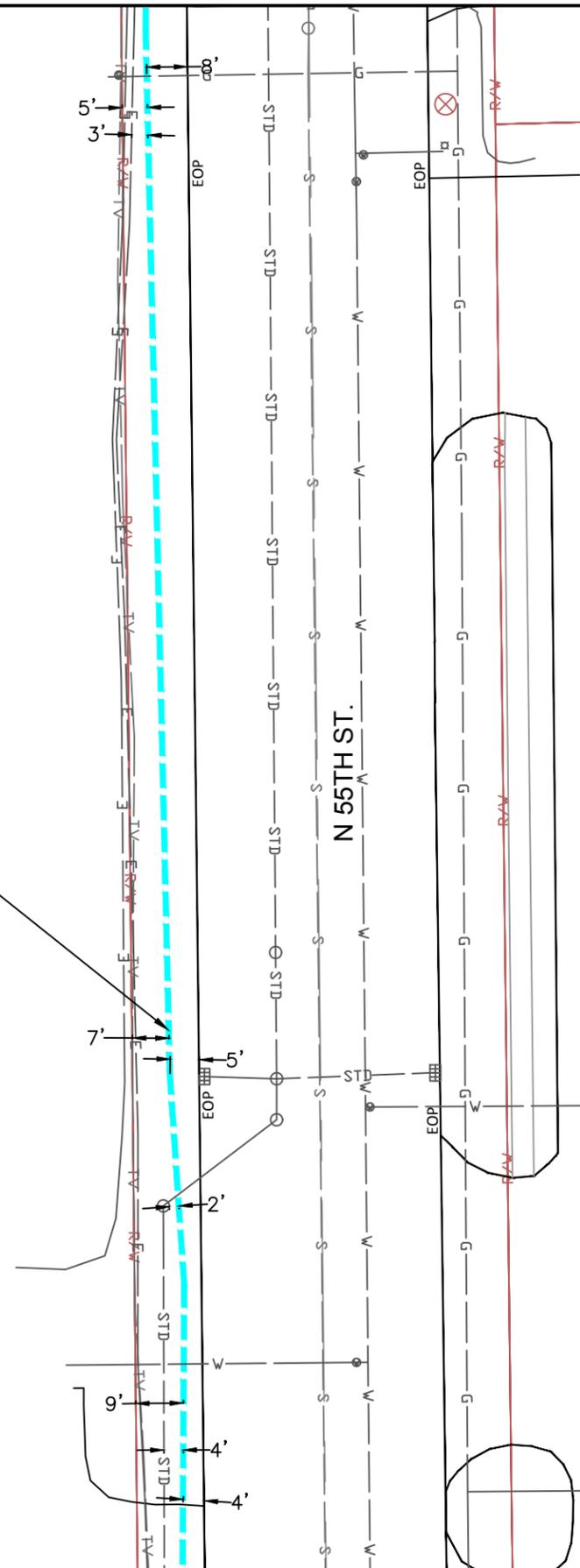
DRAWN BY: HWT	DATE:
CHECKED BY:	DATE:
APPROVED BY:	DATE:
APPROVED BY:	DATE:

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

MAP PROJECTION:
DRAWING NUMBER: 28 OF 39

CSM 3044
 PARCEL 2

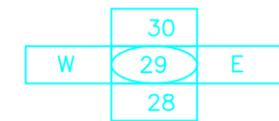
DIRECTIONAL BORE AND PLACE
 (2) 1.25" HDPE DUCT 760'
 FROM HANDHOLE TO BORE PIT
 PULL (1) 96CT 24LF/72SM
 CORNING ARMORED FIBER
 MAINTAIN MINIMUM DEPTH 36"
 UNLESS OTHERWISE NOTED.



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CSM 2656
 PARCEL 1
 5400 W Brown Deer Rd, Milwaukee, WI 53223



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

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
C/L Road	Evergreen Tree
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Water Line	Exis CATV
San. Sewer	Exis FiberOptic
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Exis UG Telephone	
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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 OR
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PRELIMINARY

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

MIDWEST FIBER NETWORKS
Midwest Fiber Networks, LLC
 414.672.5612
 6070 N Flint Rd
 Glendale, WI 53209

FIBER BUILD
 1607019
 VZB FISERV - 2

DRAWN BY : HWT	DATE :
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 : 29 OF 39



DIRECTIONAL BORE AND PLACE
(2) 1.25" HDPE DUCT 805'
FROM BORE PIT TO HANDHOLE
PULL (1) 96CT 24LF/72SM
CORNING ARMoured FIBER
MAINTAIN MINIMUM DEPTH 36"
UNLESS OTHERWISE NOTED.

PLACE (1) FIBER
MARKER POST

BORE PIT

DIRECTIONAL BORE AND PLACE
(2) 1.25" HDPE DUCT 760'
FROM HANDHOLE TO BORE PIT
PULL (1) 96CT 24LF/72SM
CORNING ARMoured FIBER
MAINTAIN MINIMUM DEPTH 36"
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BORE PIT

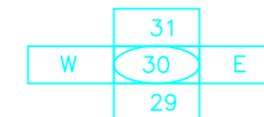
8900 N 55th
St, Milwaukee,
WI 53223

CSM 6539

LOT 1

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UNDER PAVED SURFACES.
SEE STATE STATUTES 182.0175(2)(a)(3)

SYMBOLS	
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Station Mark	Existing Handhole
Splice	Existing Manhole
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Grounded	Transmission Pole
Fiber Locate Marker Post	Hydrant
Buried Cable Marker	Sign
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R/W Line	Ele Ped/Transformer
River/Stream	Deciduous Tree
C/L Road	Evergreen Tree
RR Tracks	Exis City Comm Line
Fence	Exis Tele
Oil Pipeline	Exis Aerial Fiber Cable
Gas Pipeline	Exis UG Fiber Cable
Water Line	Exis UG Power Line
San. Sewer	
Exis UG Storm Sewer	
Exis UG Telephone	
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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OR
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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"	

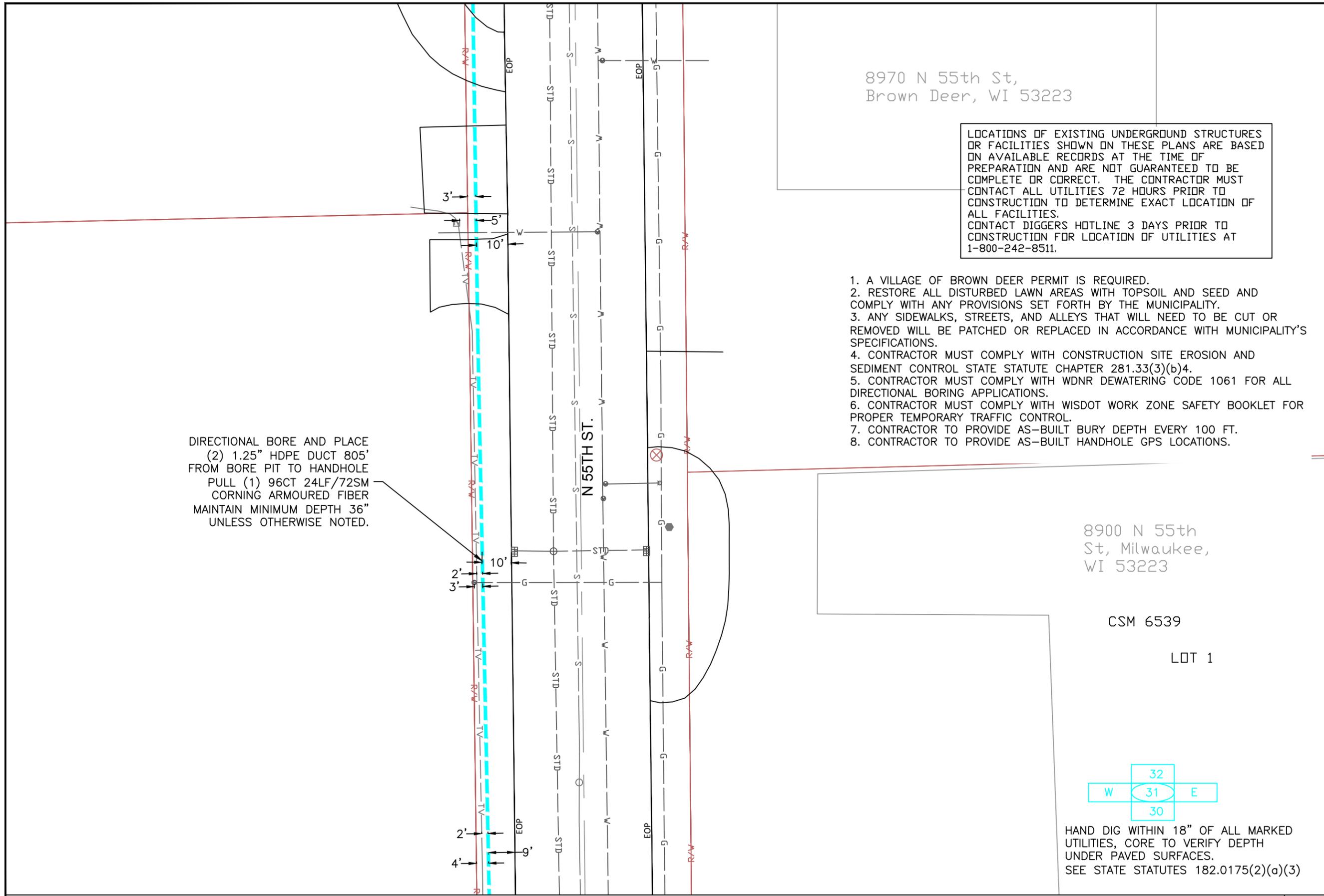
MIDWEST FIBER NETWORKS
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414.672.5612
6070 N Flint Rd
Glendale, WI 53209

FIBER BUILD
1607019
VZB FISERV - 2

DRAWN BY : HWT	DATE :
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 : 30 OF 39





8970 N 55th St,
Brown Deer, WI 53223

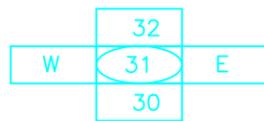
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8900 N 55th St, Milwaukee, WI 53223

CSM 6539

LOT 1



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

SYMBOLS

2 x 1.25" HDPE SDR11 Innerducts / Tracer Wire	House / Building
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Splice	Existing Manhole
Storage Loop	Power Pole
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Proposed Anc/Dn Guy	Tel Pole
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Grounded	Transmission Pole
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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
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Exls CATV	
Exls FiberOptic	
B.I.P. Black Iron Pipe	
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 EMERGENCY NOTIFICATION NUMBER: 1-866-831-1661

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STEEL PIPE SIZE:	
PVC PIPE SIZE: 1.25"	

MIDWEST FIBER NETWORKS
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 Glendale, WI 53209

FIBER BUILD
 1607019
 VZB FISERV - 2

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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 : 31 OF 39



DIRECTIONAL BORE AND PLACE (2) 1.25" HDPE DUCT 805' FROM BORE PIT TO HANDHOLE PULL (1) 96CT 24LF/72SM CORNING ARMoured FIBER MAINTAIN MINIMUM DEPTH 36" UNLESS OTHERWISE NOTED.

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SYMBOLS	
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 MAP PROJECTION :
 DRAWING NUMBER : 32 OF 39



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

DIRECTIONAL BORE AND PLACE (2) 1.25" HDPE DUCT 760' FROM HANDHOLE TO BORE PIT PULL (1) 96CT 24LF/72SM CORNING ARMORED FIBER MAINTAIN MINIMUM DEPTH 36" UNLESS OTHERWISE NOTED.

PLACE (1) 24" X 36" X 24" HANDHOLE ON 6" GRAVEL BASE LEAVE 150' SLACK IN HANDHOLE PLACE (1) FIBER MARKER POST

DIRECTIONAL BORE AND PLACE (2) 1.25" HDPE DUCT 805' FROM BORE PIT TO HANDHOLE PULL (1) 96CT 24LF/72SM CORNING ARMORED FIBER MAINTAIN MINIMUM DEPTH 36" UNLESS OTHERWISE NOTED.

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 VILLAGE OF BROWN DEER 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.

SYMBOLS	
2 x 1.25" HDPE SDR11	Innerducts / Tracer Wire
0+00	Station Mark
⊕	Splice
⊙	Storage Loop
⊕	Proposed Handhole
⊕	Proposed Anc/Dn Guy
⊕	Bond to Ground
⊕	Grounded
⊕	Fiber Locate Marker Post
▲	Buried Cable Marker
⊕	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 Fiber Cable
⊕	Exis UG Power Line
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

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

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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 FIBER NETWORKS
Midwest Fiber Networks, LLC
 414.672.5612
 6070 N Flint Rd
 Glendale, WI 53209

FIBER BUILD
 1607019
 VZB FISERV - 2

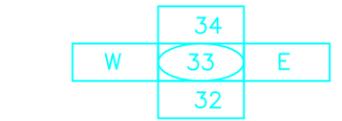
DRAWN BY : HWT	DATE :
CHECKED BY :	DATE :
APPROVED BY :	DATE :
APPROVED BY :	DATE :

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

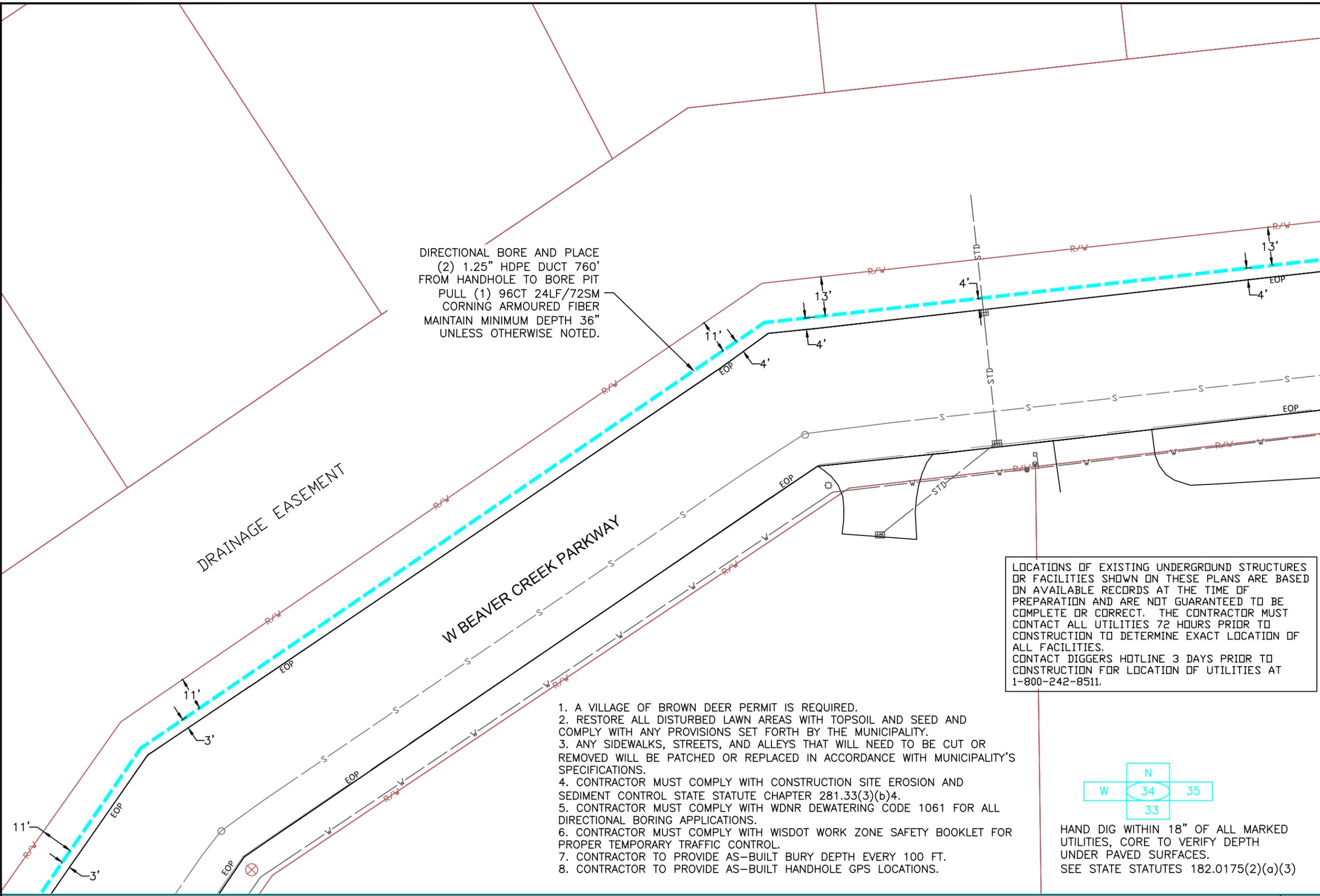
MAP PROJECTION :
 DRAWING NUMBER : 33 OF 39



9000 N 55th St,
 Milwaukee, WI 53223



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



DIRECTIONAL BORE AND PLACE
 (2) 1.25" HDPE DUCT 760'
 FROM HANDHOLE TO BORE PIT
 PULL (1) 96CT 24LF/72SM
 CORNING ARMOURD FIBER
 MAINTAIN MINIMUM DEPTH 36"
 UNLESS OTHERWISE NOTED.

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7. CONTRACTOR TO PROVIDE AS-BUILT BURY DEPTH EVERY 100 FT.
8. CONTRACTOR TO PROVIDE AS-BUILT HANDHOLE GPS LOCATIONS.



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

SYMBOLS	
2 x 1.25" HDPE SDR11	Innerducts / Tracer Wire
0+00	Station Mark
⊕	Splice
⊙	Storage Loop
⊕	Proposed Handhole
⊕	Proposed Anc/Dn Guy
⊕	Bond to Ground
⊕	Grounded
⊕	Fiber Locate Marker Post
▲	Buried Cable Marker
⊕	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
B.I.P.	Black Iron Pipe
G.I.P.	Galvanized Iron Pipe

MWFN CONTACT INFO
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 414-226-2205
 EMERGENCY NOTIFICATION NUMBER: 1-866-831-1661

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PRELIMINARY

REVISIONS			
REV. NO.	DESCRIPTION	BY	DATE

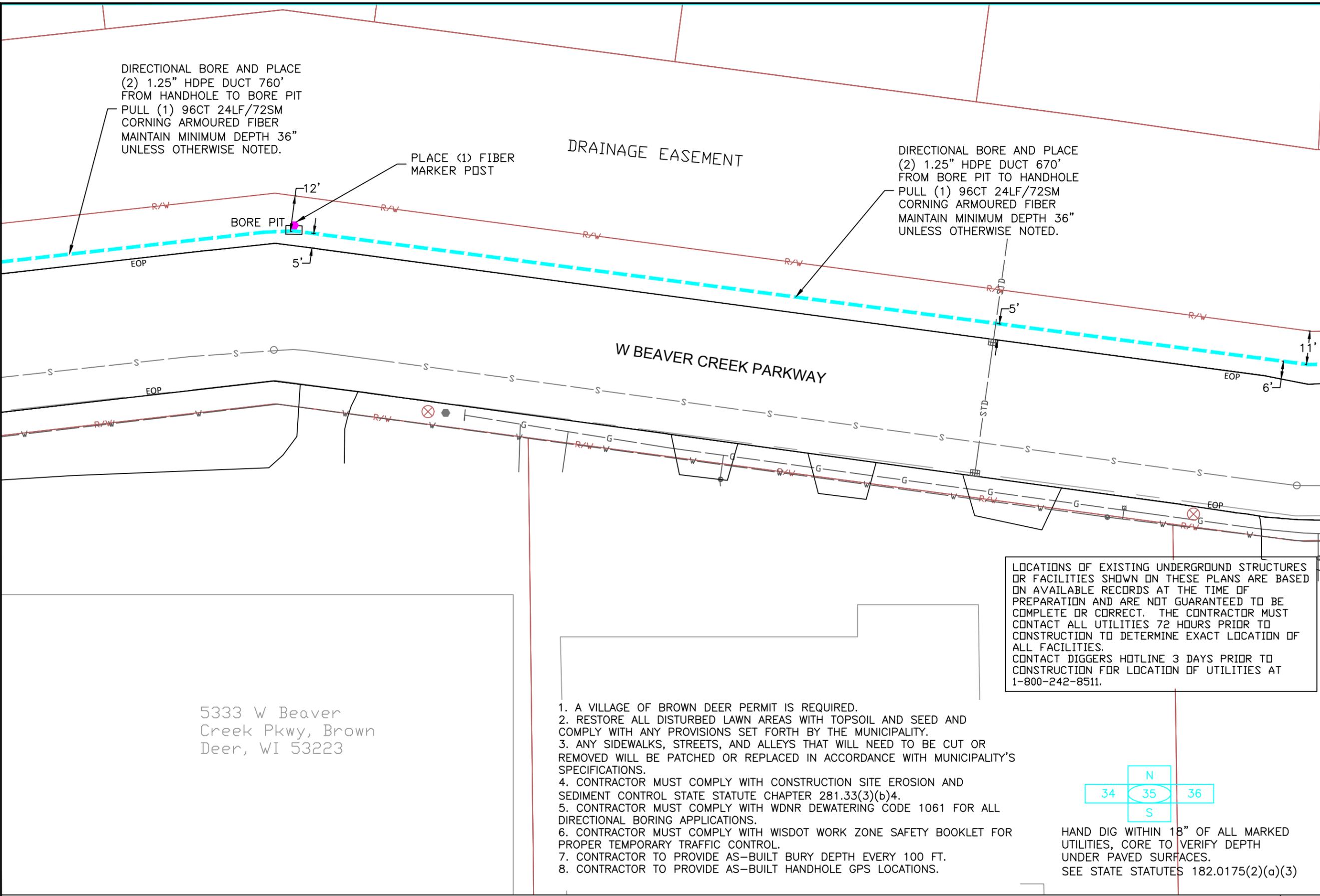
CABLE FIBER COUNT:	CABLE DESCRIPTION:
CABLE REEL NO. REEL #	
SPLICE TO SPLICE CABLE LENGTH:	
INNERDUCT & TYPE: HDPE	PIPE & INNERDUCT PLACEMENT:
STEEL PIPE SIZE:	
PVC PIPE SIZE: 1.25"	

MIDWEST FIBER NETWORKS
Midwest Fiber Networks, LLC
 414.672.5612
 6070 N Flint Rd
 Glendale, WI 53209

FIBER BUILD
 1607019
 VZB FISERV - 2

DRAWN BY: HWT	DATE:
CHECKED BY:	DATE:
APPROVED BY:	DATE:
APPROVED BY:	DATE:

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



SYMBOLS

2 x 1.25" HDPE SDR11 Innerducts / Tracer Wire	House / Building
0+00 Station Mark	Existing Handhole
Splice	Existing Manhole
100' 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
C/L Road	Evergreen Tree
RR Tracks	Exis City Comm Line
Fence	Exis Tele
Oil Pipeline	Exis Aerial Fiber Cable
Gas Pipeline	Exis UG Fiber Cable
Water Line	Exis UG Power Line
San. Sewer	
Exis US Storm Sewer	
Exis US Telephone	
Exis CATV	
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SPLICE TO SPLICE CABLE LENGTH:	
INNERDUCT & TYPE: HDPE	PIPE & INNERDUCT PLACEMENT:
STEEL PIPE SIZE:	
PVC PIPE SIZE: 1.25"	

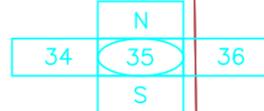
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 Glendale, WI 53209

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 VZB FISERV - 2

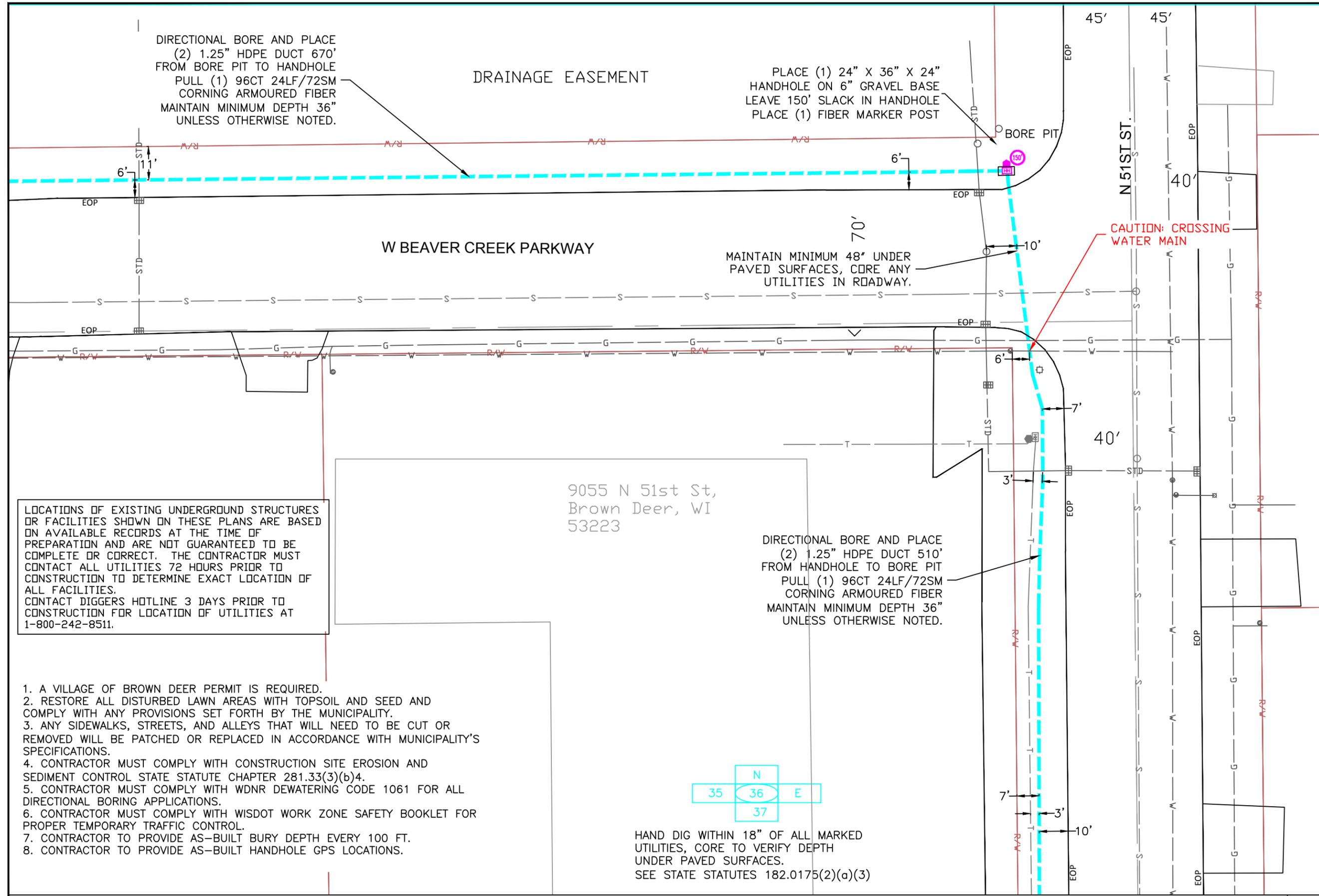
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CHECKED BY:	DATE:
APPROVED BY:	DATE:
APPROVED BY:	DATE:
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VERTICAL SCALE (PROF):	
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HAND DIG WITHIN 18" OF ALL MARKED UTILITIES, CORE TO VERIFY DEPTH UNDER PAVED SURFACES.
 SEE STATE STATUTES 182.0175(2)(a)(3)



DIRECTIONAL BORE AND PLACE
(2) 1.25" HDPE DUCT 670'
FROM BORE PIT TO HANDHOLE
PULL (1) 96CT 24LF/72SM
CORNING ARMoured FIBER
MAINTAIN MINIMUM DEPTH 36"
UNLESS OTHERWISE NOTED.

DRAINAGE EASEMENT

PLACE (1) 24" X 36" X 24"
HANDHOLE ON 6" GRAVEL BASE
LEAVE 150' SLACK IN HANDHOLE
PLACE (1) FIBER MARKER POST

W BEAVER CREEK PARKWAY

MAINTAIN MINIMUM 48" UNDER
PAVED SURFACES, CORE ANY
UTILITIES IN ROADWAY.

CAUTION: CROSSING
WATER MAIN

9055 N 51st St,
Brown Deer, WI
53223

DIRECTIONAL BORE AND PLACE
(2) 1.25" HDPE DUCT 510'
FROM HANDHOLE TO BORE PIT
PULL (1) 96CT 24LF/72SM
CORNING ARMoured FIBER
MAINTAIN MINIMUM DEPTH 36"
UNLESS OTHERWISE NOTED.



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

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8. CONTRACTOR TO PROVIDE AS-BUILT HANDHOLE GPS LOCATIONS.

SYMBOLS

2 x 1.25" HDPE SDR11	Innerducts / Tracer Wire
0+00	Station Mark
100'	Storage Loop
Proposed Handhole	Existing Handhole
Proposed Anc/Dn Guy	Power Pole
Bond to Ground	Water Valve / Meter
Grounded	Tel Pole
Fiber Locate Marker Post	Gas Valve / Meter
Buried Cable Marker	Transmission Pole
New Aerial Fiber Cable	Hydrant
New Underground Fiber Cable	Sign
Township Line	Mailbox
City Limits	Street/Traffic Light
R/W Line	Tel Ped
River/Stream	TV Ped
C/L Road	Ele Ped/Transformer
RR Tracks	Deciduous Tree
Fence	Evergreen Tree
Oil Pipeline	Exis City Comm Line
Gas Pipeline	Exis Tele
Water Line	Exis Aerial Fiber Cable
San. Sewer	Exis US Fiber Cable
Exis US Storm Sewer	Exis UG Fiber Cable
Telephone	Exis CATV
Exis CATV	Exis FiberOptic
Black Iron Pipe	Power Line
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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OR
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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 FIBER NETWORKS
Midwest Fiber Networks, LLC
414.672.5612
6070 N Flint Rd
Glendale, WI 53209

FIBER BUILD
1607019
VZB FISERV - 2

DRAWN BY: HWT	DATE:
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: 36 OF 39

9055 N 51st St,
Brown Deer, WI
53223

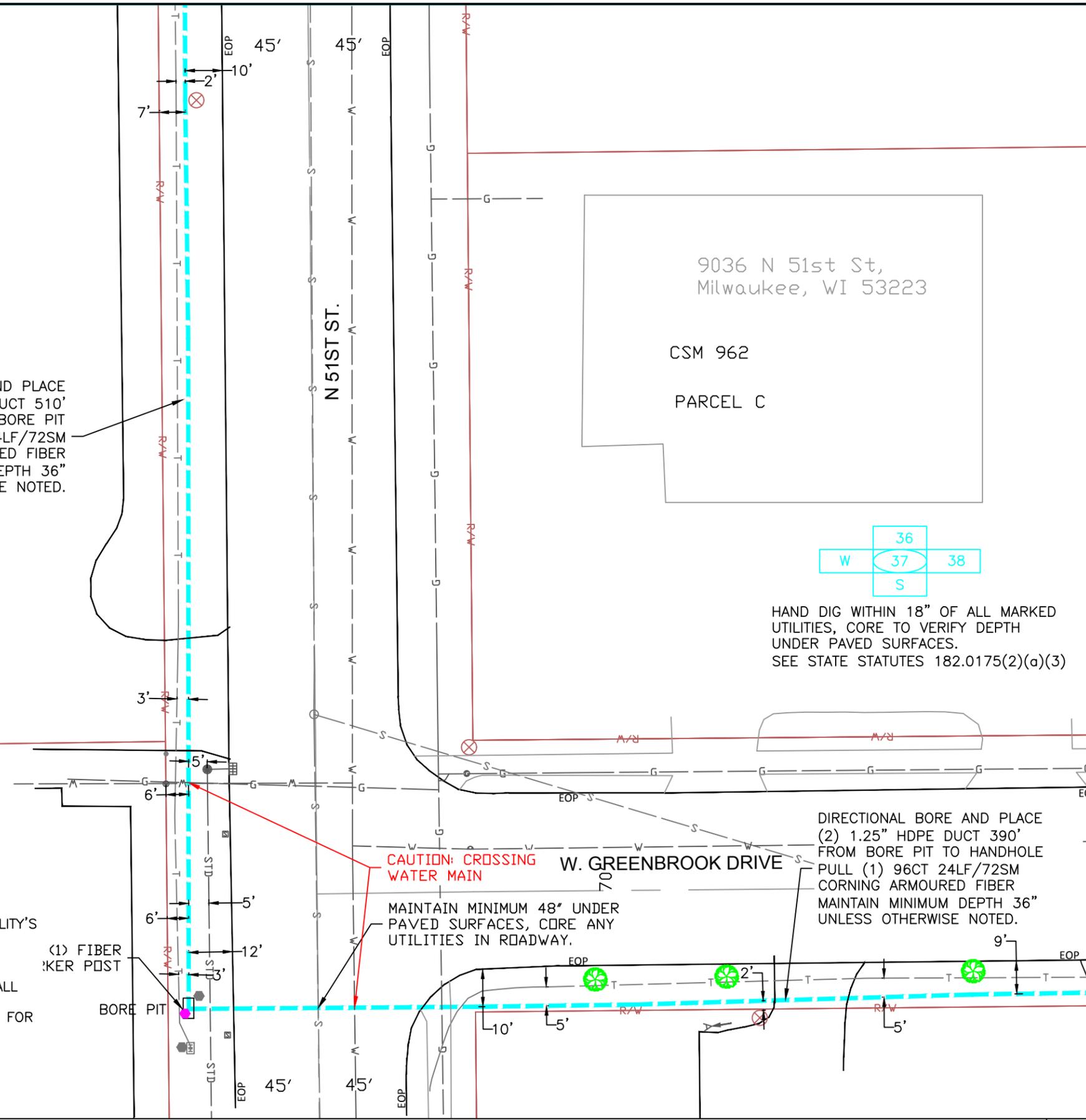
9036 N 51st St,
Milwaukee, WI 53223

CSM 962
PARCEL C

DIRECTIONAL BORE AND PLACE
(2) 1.25" HDPE DUCT 510'
FROM HANDHOLE TO BORE PIT
PULL (1) 96CT 24LF/72SM
CORNING ARMoured FIBER
MAINTAIN MINIMUM DEPTH 36"
UNLESS OTHERWISE NOTED.

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.

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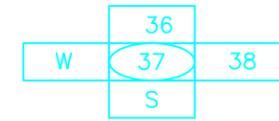


CAUTION: CROSSING
WATER MAIN

MAINTAIN MINIMUM 48" UNDER
PAVED SURFACES, CORE ANY
UTILITIES IN ROADWAY.

DIRECTIONAL BORE AND PLACE
(2) 1.25" HDPE DUCT 390'
FROM BORE PIT TO HANDHOLE
PULL (1) 96CT 24LF/72SM
CORNING ARMoured FIBER
MAINTAIN MINIMUM DEPTH 36"
UNLESS OTHERWISE NOTED.

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



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
C/L Road	Evergreen Tree
RR Tracks	Exls City Comm Line
Fence	Exls Tele
Oil Pipeline	Exls Aerial Fiber Cable
Gas Pipeline	Exls UG Fiber Cable
Water Line	Exls UG Power Line
San. Sewer	
Exls US	
Telephone	
Exls CATV	
Exls FiberOptic	
B.I.P. Black Iron Pipe	
G.I.P. Galvanized Iron Pipe	

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	PIPE & INNERDUCT PLACEMENT:
STEEL PIPE SIZE:	
PVC PIPE SIZE: 1.25"	

MIDWEST FIBER NETWORKS
Midwest Fiber Networks, LLC
414.672.5612
6070 N Flint Rd
Glendale, WI 53209

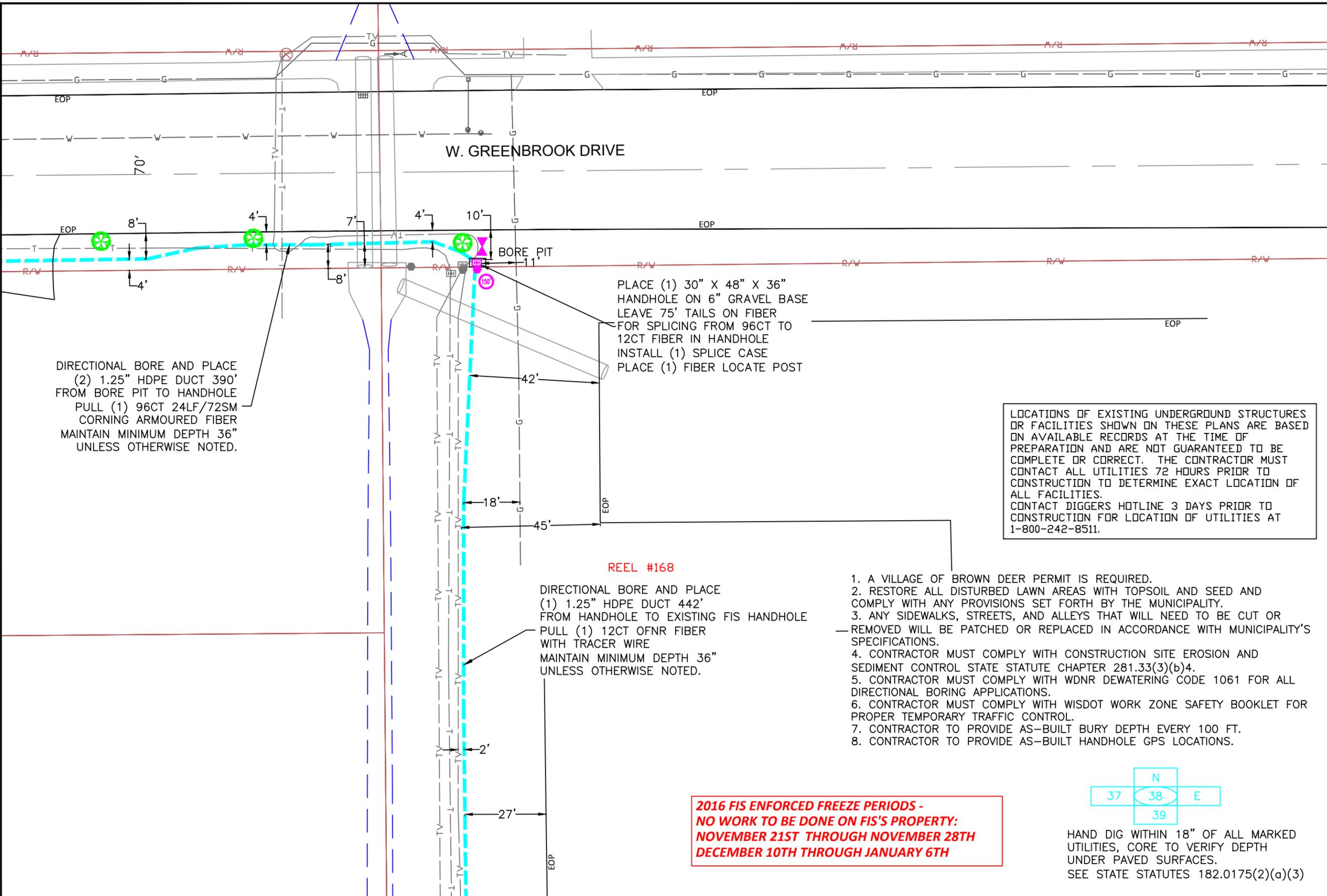
FIBER BUILD
1607019
VZB FISERV - 2

DRAWN BY : NWT	DATE :
CHECKED BY :	DATE :
APPROVED BY :	DATE :
APPROVED BY :	DATE :

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

MAP PROJECTION :
DRAWING NUMBER : 37 OF 39





PLACE (1) 30" X 48" X 36"
HANDHOLE ON 6" GRAVEL BASE
LEAVE 75' TAILS ON FIBER
FOR SPLICING FROM 96CT TO
12CT FIBER IN HANDHOLE
INSTALL (1) SPLICE CASE
PLACE (1) FIBER LOCATE POST

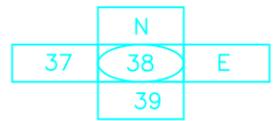
DIRECTIONAL BORE AND PLACE
(2) 1.25" HDPE DUCT 390'
FROM BORE PIT TO HANDHOLE
PULL (1) 96CT 24LF/72SM
CORNING ARMoured FIBER
MAINTAIN MINIMUM DEPTH 36"
UNLESS OTHERWISE NOTED.

REEL #168
DIRECTIONAL BORE AND PLACE
(1) 1.25" HDPE DUCT 442'
FROM HANDHOLE TO EXISTING FIS HANDHOLE
PULL (1) 12CT OFNR FIBER
WITH TRACER WIRE
MAINTAIN MINIMUM DEPTH 36"
UNLESS OTHERWISE NOTED.

LOCATIONS OF EXISTING UNDERGROUND STRUCTURES
OR FACILITIES SHOWN ON THESE PLANS ARE BASED
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CONSTRUCTION TO DETERMINE EXACT LOCATION OF
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CONTACT DIGGERS HOTLINE 3 DAYS PRIOR TO
CONSTRUCTION FOR LOCATION OF UTILITIES AT
1-800-242-8511.

1. A VILLAGE OF BROWN DEER 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.

**2016 FIS ENFORCED FREEZE PERIODS -
NO WORK TO BE DONE ON FIS'S PROPERTY:
NOVEMBER 21ST THROUGH NOVEMBER 28TH
DECEMBER 10TH THROUGH JANUARY 6TH**



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

SYMBOLS

2 x 1.25" HDPE SDR11	Innerducts / Tracer Wire
0+00	Station Mark
⊕	Splice
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 US Telephone
—	Exis CATV
—	Exis FiberOptic
B.I.P.	Black Iron Pipe
G.I.P.	Galvanized Iron Pipe
⊕	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

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

DIGGERS HOTLINE
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	PIPE & INNERDUCT PLACEMENT:
STEEL PIPE SIZE:	
PVC PIPE SIZE: 1.25"	

MIDWEST FIBER NETWORKS
Midwest Fiber Networks, LLC
414.672.5612
6070 N Flint Rd
Glendale, WI 53209

FIBER BUILD
1607019
VZB FISERV - 2

DRAWN BY : HWT	DATE :
CHECKED BY :	DATE :
APPROVED BY :	DATE :
APPROVED BY :	DATE :

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

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 VILLAGE OF BROWN DEER 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.
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7. CONTRACTOR TO PROVIDE AS-BUILT BURY DEPTH EVERY 100 FT.
8. CONTRACTOR TO PROVIDE AS-BUILT HANDHOLE GPS LOCATIONS.

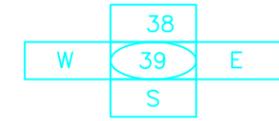
REEL #168
 DIRECTIONAL BORE AND PLACE (1) 1.25" HDPE DUCT 442' FROM HANDHOLE TO EXISTING FIS HANDHOLE PULL (1) 12CT OFNR FIBER WITH TRACER WIRE MAINTAIN MINIMUM DEPTH 36" UNLESS OTHERWISE NOTED.

REEL #168
 PULL (1) 12CT OFNR FIBER WITH TRACER WIRE 36' THROUGH EXISTING FIS DUCT FROM HANDHOLE TO BUILDING RISER TO JUNCTION BOX THROUGH 2" EMT CONDUIT, FOLLOW EXISTING PATH PROVIDED TO SERVER ROOM.



4900 W Brown
 Deer Rd, Brown Deer,
 WI 53223

2016 FIS ENFORCED FREEZE PERIODS - NO WORK TO BE DONE ON FIS'S PROPERTY: NOVEMBER 21ST THROUGH NOVEMBER 28TH DECEMBER 10TH THROUGH JANUARY 6TH



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

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	Mallbox
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	Exis City Comm Line
Fence	Exis Tele
Oil Pipeline	Exis Aerial Fiber Cable
Gas Pipeline	Exis UG Fiber Cable
Water Line	Exis UG Power Line
San. Sewer	
Storm Sewer	
Exis UG Telephone	
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

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

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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 FIBER NETWORKS
Midwest Fiber Networks, LLC
 414.672.5612
 6070 N Flint Rd
 Glendale, WI 53209

FIBER BUILD
 1607019
 VZB FISERV - 2

DRAWN BY : HWT	DATE :
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 : 39 OF 39



TRAFFIC CONTROL PLAN

PLEASE REFERENCE SDD 15D21-4 FOR LANE CLOSURES TO POT HOLE EXISTING UTILITIES IN INTERSECTION.

REFERENCE SDD 15D30-3 FOR PEDESTRIAN ACCOMMODATIONS AROUND INTERSECTION.

TIME RESTRICTION WILL BE AS FOLLOWS:

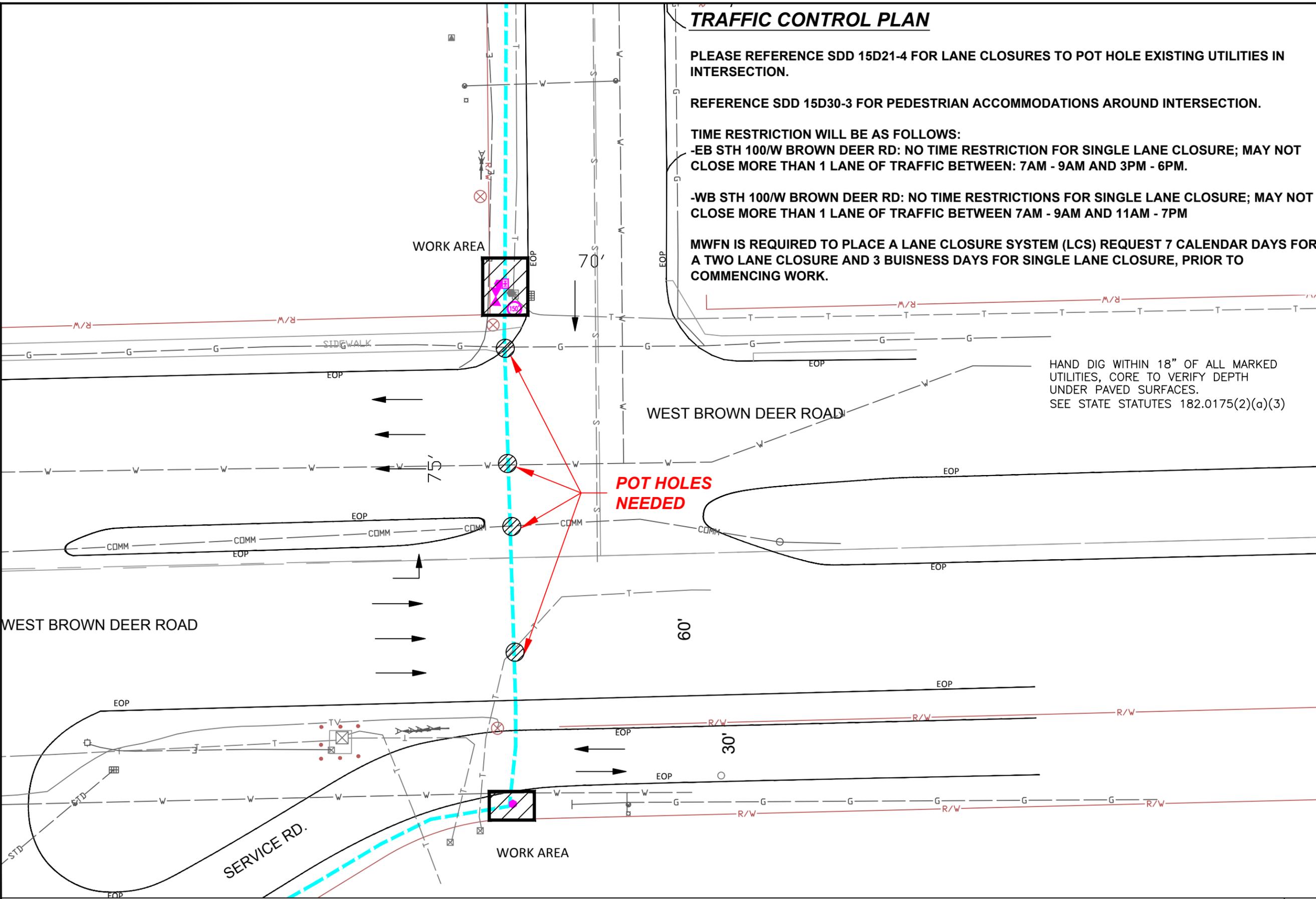
-EB STH 100/W BROWN DEER RD: NO TIME RESTRICTION FOR SINGLE LANE CLOSURE; MAY NOT CLOSE MORE THAN 1 LANE OF TRAFFIC BETWEEN: 7AM - 9AM AND 3PM - 6PM.

-WB STH 100/W BROWN DEER RD: NO TIME RESTRICTIONS FOR SINGLE LANE CLOSURE; MAY NOT CLOSE MORE THAN 1 LANE OF TRAFFIC BETWEEN 7AM - 9AM AND 11AM - 7PM

MWFN IS REQUIRED TO PLACE A LANE CLOSURE SYSTEM (LCS) REQUEST 7 CALENDAR DAYS FOR A TWO LANE CLOSURE AND 3 BUSINESS DAYS FOR SINGLE LANE CLOSURE, PRIOR TO COMMENCING WORK.

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

POT HOLES NEEDED



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
C/L Road	Evergreen Tree
RR Tracks	Exis City Comm Line
Fence	Exis Tele
Oil Pipeline	Exis Aerial Fiber Cable
Gas Pipeline	Exis UG Fiber Cable
Water Line	Exis UG Power Line
San. Sewer	
Storm Sewer	
Exis UG Telephone	
Exis CATV	
Exis FiberOptic	
B.I.P. Black Iron Pipe	
G.I.P. Galvanized Iron Pipe	

MWFN CONTACT INFO

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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"	

MIDWEST FIBER NETWORKS

Midwest Fiber Networks, LLC

414.672.5612
6070 N Flint Rd
Glendale, WI 53209

FIBER BUILD
1607019
VZB FISERV - 2

DRAWN BY : HWT	DATE :
CHECKED BY :	DATE :
APPROVED BY :	DATE :
APPROVED BY :	DATE :

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

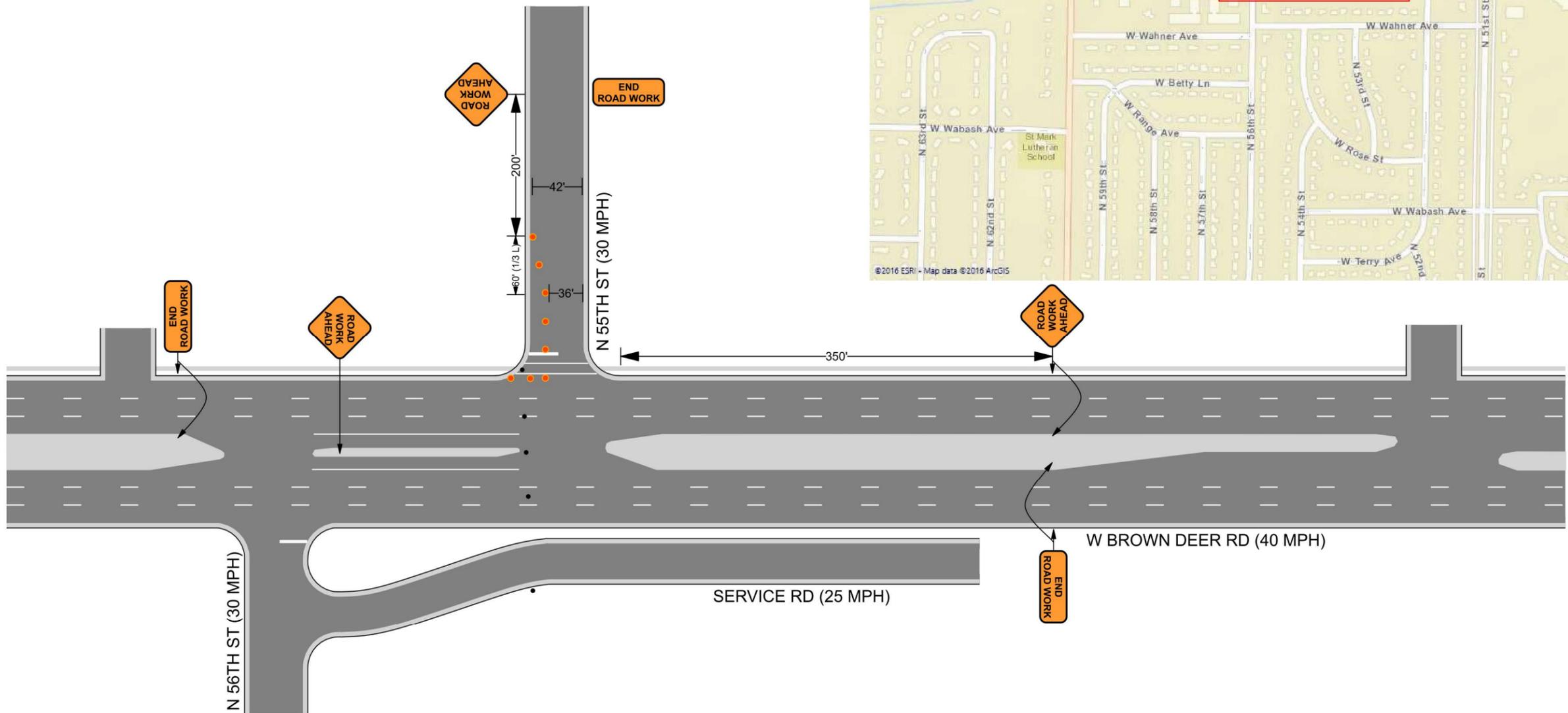
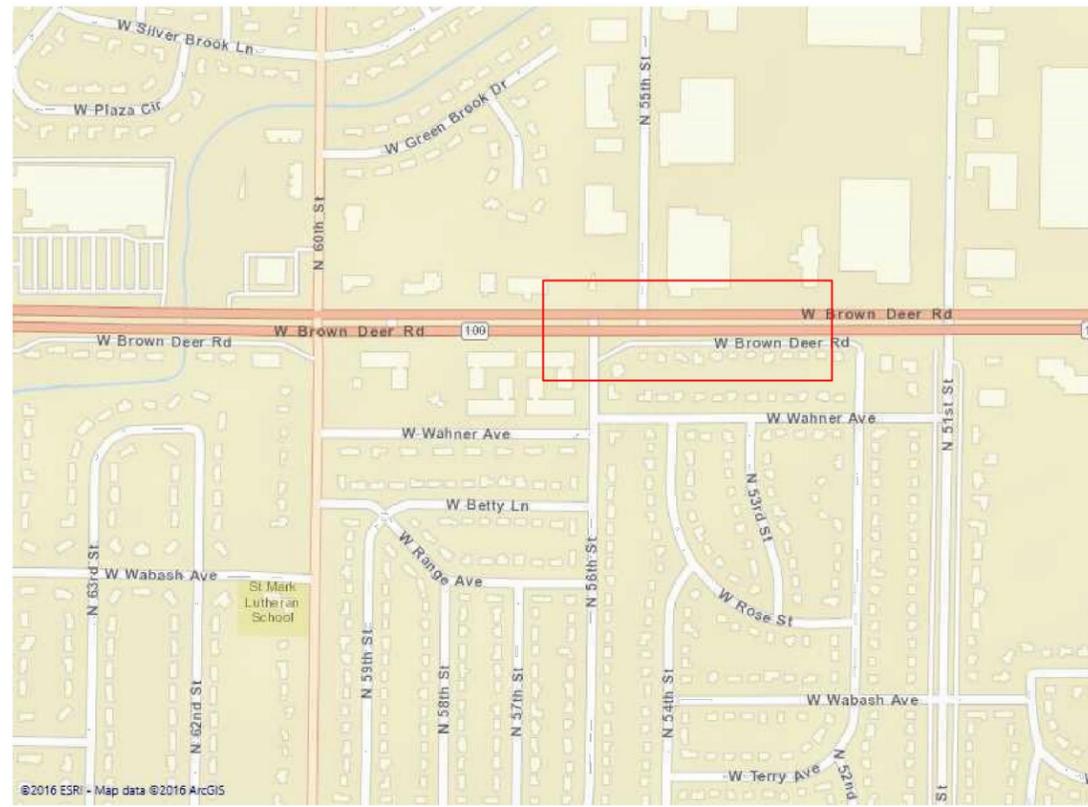
MAP PROJECTION :
DRAWING NUMBER : STH 100 TCP



PHASE 1



Date: 10/11/2016 **Author:** Northwind Technical Services **Project:** W Brown Deer Rd - Shoulder Work
Comments:
 NOT TO SCALE
 All Plan Details According to Wisconsin MUTCD
 Cones for All Tapers and Tangents ● ● ●
 Hold and Allow Pedestrian Traffic As Needed



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
C/L Road	Evergreen Tree
RR Tracks	Exis City Comm Line
Fence	Exis Tele
Oil Pipeline	Exis Aerial Fiber Cable
Gas Pipeline	Exis UG Fiber Cable
Water Line	Exis UG Fiber CATV
San. Sewer	Exis UG Power Line
Storm Sewer	
Exis US Telephone	
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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 OR
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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 FIBER NETWORKS
Midwest Fiber Networks, LLC
 414.672.5612
 6070 N Flint Rd
 Glendale, WI 53209

FIBER BUILD
 1607019
 VZB FISERV - 2

DRAWN BY : NWT	DATE :
CHECKED BY :	DATE :
APPROVED BY :	DATE :
APPROVED BY :	DATE :

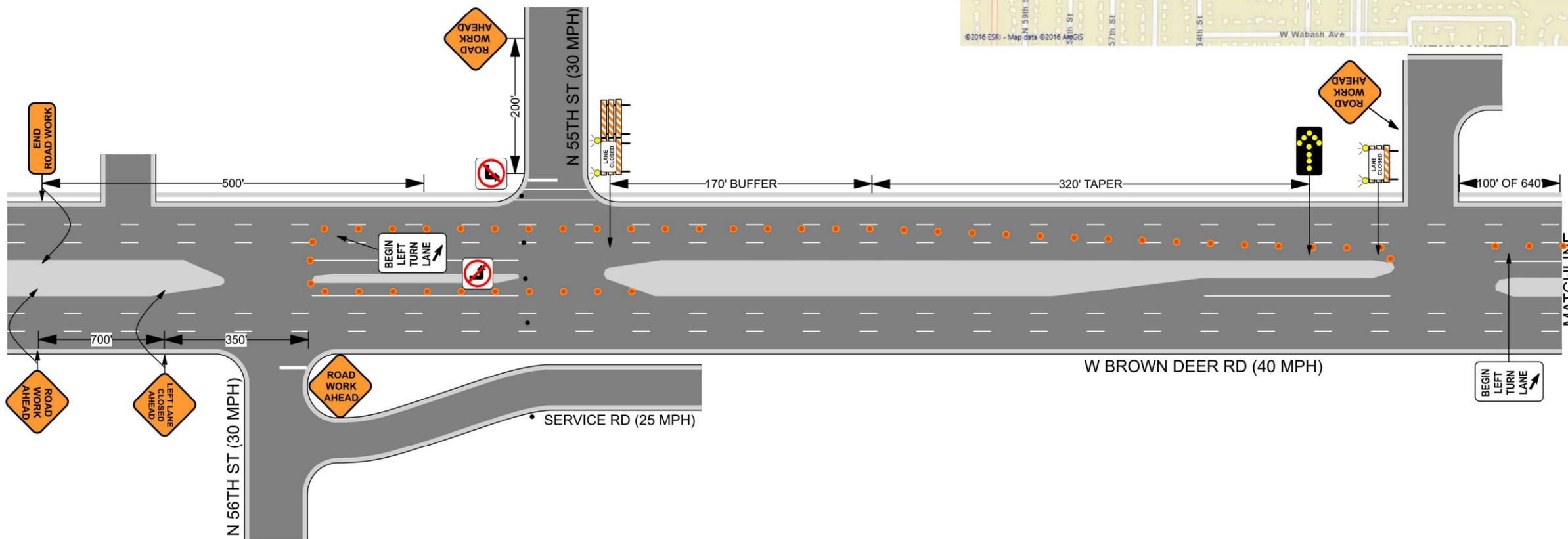
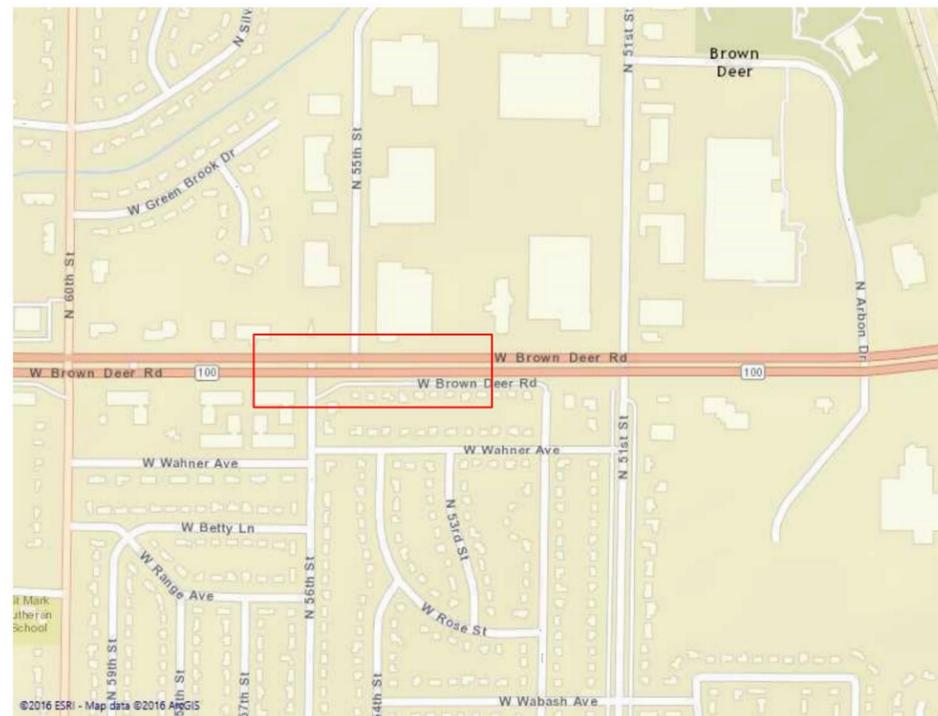
HORIZONTAL SCALE (DWG & PROF) : 1" = 30'
 VERTICAL SCALE (DWG) :
 VERTICAL SCALE (PROF) :
 MAP PROJECTION :



PHASE 2 - PAGE 1 OF 2



Date: 10/16/2016 **Author:** Northwind Technical Services **Project:** W Brown Deer Rd - Lane Closure
Comments:
 NOT TO SCALE
 All Plan Details According to Wisconsin MUTCD
 Drums for All Tapers (w/ Type A Lights) and Tangents ● ● ●
 Lane Closures May Operate Off-Peak Hours Only (7 PM to 7 AM)



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
C/L Road	Evergreen Tree
RR Tracks	Exis City Comm Line
Fence	Exis Tele
Oil Pipeline	Exis Aerial Fiber Cable
Gas Pipeline	Exis UG Fiber Cable
Water Line	Exis UG Power Line
San. Sewer	
Storm Sewer	
Exis UG Telephone	
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

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

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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 FIBER NETWORKS
Midwest Fiber Networks, LLC
 414.672.5612
 6070 N Flint Rd
 Glendale, WI 53209

FIBER BUILD
 1607019
 VZB FISERV - 2

DRAWN BY : NWT	DATE :
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 STH 100 PHASE 2



PHASE 2 - PAGE 2 OF 2



Date: 10/16/2016 **Author:** Northwind Technical Services **Project:** W Brown Deer Rd - Lane Closure

Comments:
 NOT TO SCALE

All Plan Details According to Wisconsin MUTCD

Drums for All Tapers (w/ Type A Lights) and Tangents ● ● ●

Lane Closures May Operate Off-Peak Hours Only (7 PM to 7 AM)



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
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Gas Pipeline	Exis UG Fiber Cable
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San. Sewer	
Storm Sewer	
Exis UG Telephone	
Exis CATV	
Exis FiberOptic	
B.I.P. Black Iron Pipe	
G.I.P. Galvanized Iron Pipe	

MWFN CONTACT INFO

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414-226-2205

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REVISIONS			
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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 FIBER NETWORKS

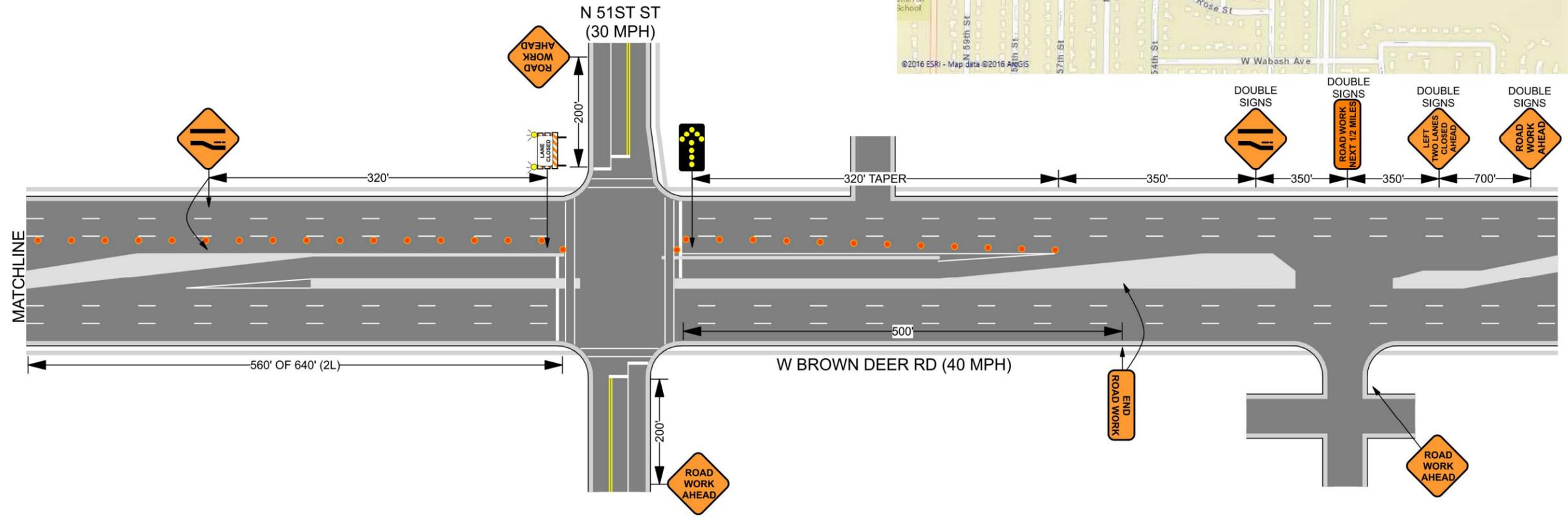
Midwest Fiber Networks, LLC

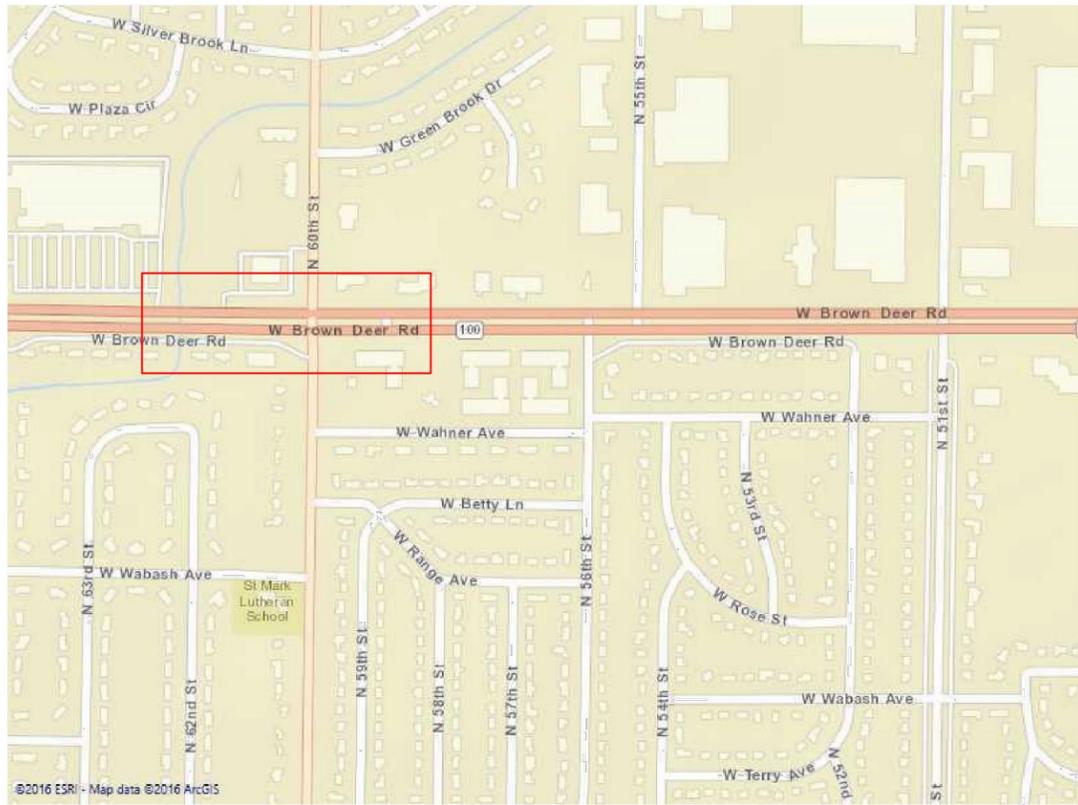
414.672.5612
 6070 N Flint Rd
 Glendale, WI 53209

FIBER BUILD
 1607019
 VZB FISERV - 2

DRAWN BY : NWT	DATE :
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 STH 100 PHASE 2





PHASE 3 - PAGE 1 OF 2



Date: 10/16/2016 **Author:** Northwind Technical Services **Project:** W Brown Deer Rd - Lane Closure

Comments:
 NOT TO SCALE

All Plan Details According to Wisconsin MUTCD

Drums for All Tapers (w/ Type A Lights) and Tangents ● ● ●

Lane Closures May Operate Off-Peak Hours Only (7 PM to 7 AM)

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
C/L Road	Evergreen Tree
RR Tracks	Exis City Comm Line
Fence	Exis Tele
Oil Pipeline	Exis Aerial Fiber Cable
Gas Pipeline	Exis UG Fiber Cable
Water Line	Exis UG Power Line
San. Sewer	
Storm Sewer	
Exis UG Telephone	
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 #	
SPLICE TO SPLICE CABLE LENGTH:	
INNERDUCT & TYPE: HDPE	PIPE & INNERDUCT PLACEMENT
STEEL PIPE SIZE:	
PVC PIPE SIZE: 1.25"	

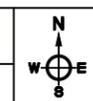
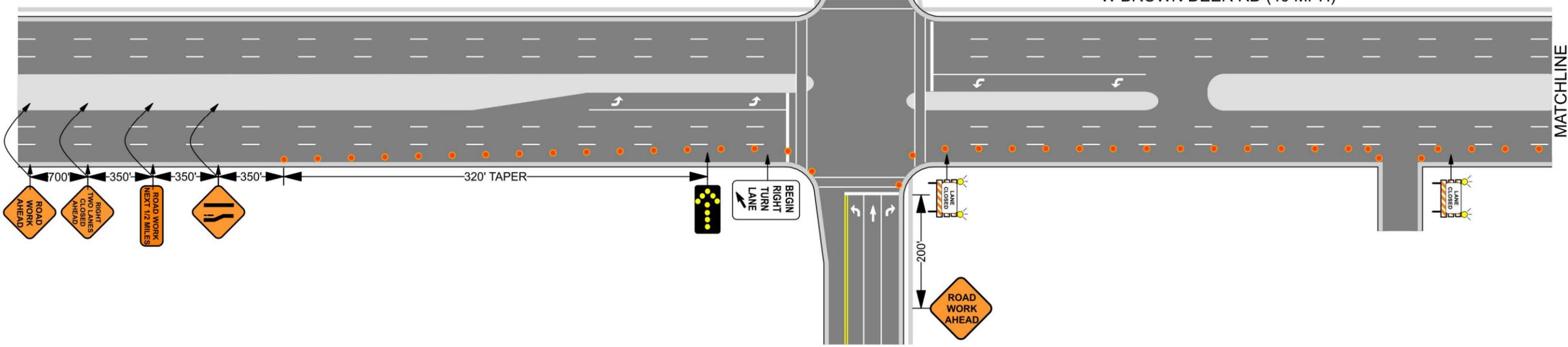
MIDWEST FIBER NETWORKS

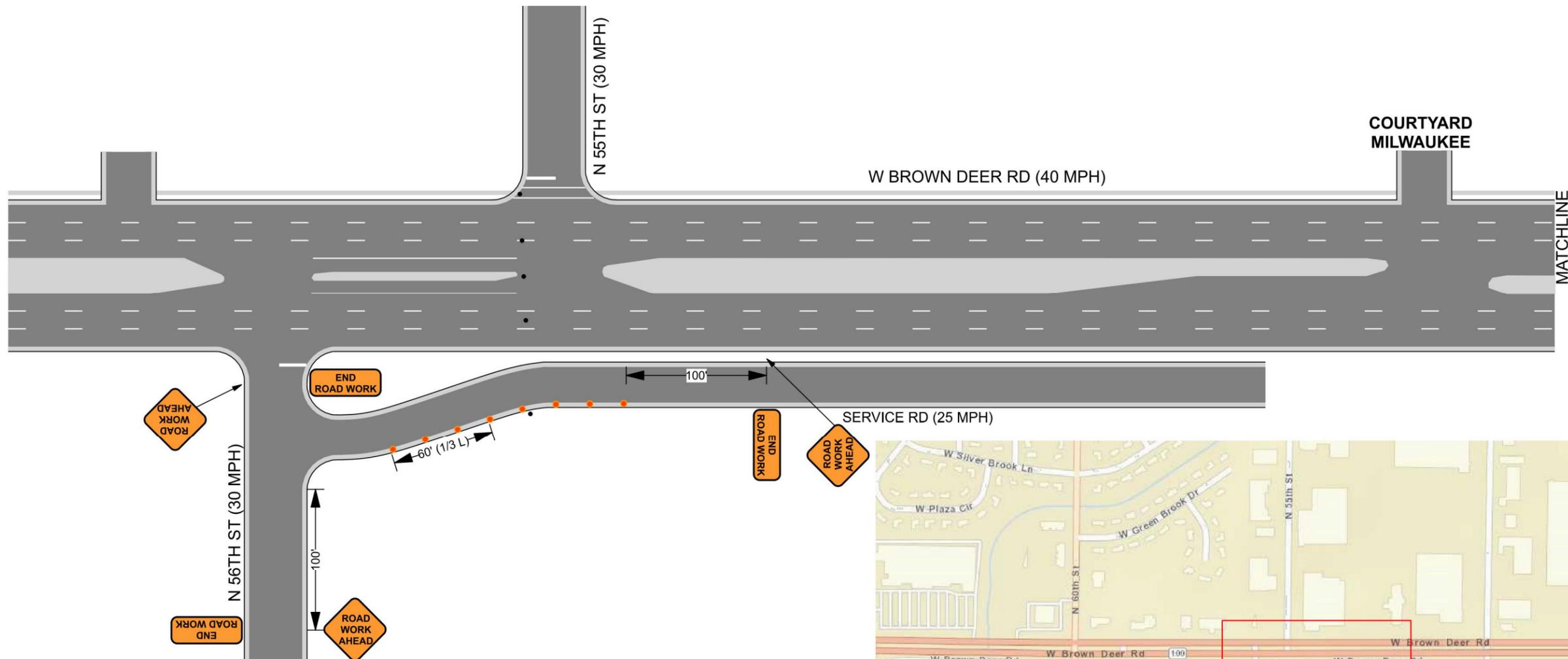
Midwest Fiber Networks, LLC

414.672.5612
 6070 N Flint Rd
 Glendale, WI 53209

FIBER BUILD
 1607019
 VZB FISERV - 2

DRAWN BY : HWT	DATE :
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 STH 100 PHASE 3	





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
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

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

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PRELIMINARY

REVISIONS

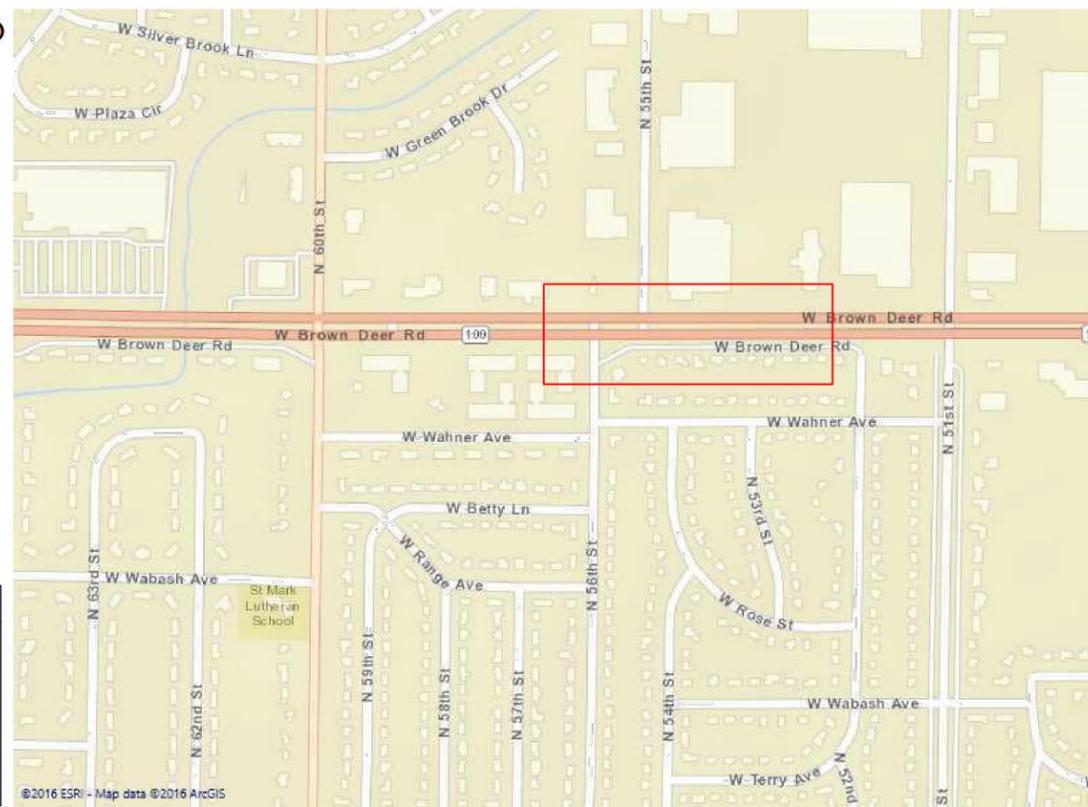
REV. NO.	DESCRIPTION	BY	DATE

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 FIBER NETWORKS
Midwest Fiber Networks, LLC
 414.672.5612
 6070 N Flint Rd
 Glendale, WI 53209

FIBER BUILD
 1607019
 VZB FISERV - 2

DRAWN BY : HWT	DATE :
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 STH 100 PHASE 4	



PHASE 4



Date: 10/16/2016 **Author:** Northwind Technical Services **Project:** W Brown Deer Rd - Shoulder Closure
Comments:
 NOT TO SCALE
 All Plan Details According to Wisconsin MUTCD
 Cones for All Tapers and Tangents ● ● ●



EROSION CONTROL PLAN

APPLYING TO WORK DONE AT THE INTERSECTION OF STH 100
(W. BROWN DEER RD.) - N. 55TH ST
- NOTES 1-6 APPLY TO ALL WORK

GENERAL NOTES

- All of the conditions under this document will be met during construction of the project.
- No stockpiling spoils on roadways or on shoulder.
- If any spills (like gas, oil, hydraulic fluid) occur on site, stop work and contact supervisor immediately.

CONTAMINATED SOILS

4. Whenever soil exhibiting obvious signs of contamination is encountered during excavation or installation, cease work immediately, take appropriate precautions to ensure worker health and safety, and contact operations supervisor or inspector.

EROSION CONTROL

- Erosion control measures will meet or exceed the approved WDNR Storm Water Management Technical Standards as outlined in <http://dnr.wi.gov/runoff/stormwater/techstds.htm>.
- During winter, there will be no stockpiling spoils on ground.

DEWATERING

7. Dewatering of pits or trenches shall be done in accordance with state standards. Use an approved sediment bag, a straw bale dewatering basin, a combination of both, or equivalent.

WETLANDS

8. No work will be performed within the banks or below the ordinary high watermark of the unnamed waterway or tributaries.

9. As much as practicable, the majority of work will be staged from the public roadways and road shoulders, keeping equipment out of adjacent wetlands.

10. All work will be conducted to minimize soil disturbance. No rutting will be allowed within the wetlands.

11. If soils are not frozen or stable to a point that avoids rutting, timber mats, mud tracks, or equivalent will be utilized to access pole locations.

12. Excavated spoils will not be stockpiled in wetlands. All excess spoils will be removed from wetlands and placed in a suitable upland location.

13. Trenching and pit excavations within wetlands will include soil segregation to facilitate restoration of pre-construction soil stratification, and restoration to pre-construction elevations.

14. Any poles scheduled to be removed, and that occur within wetland will be cut at ground surface.

15. If soil disturbance occurs on slopes leading to wetlands, or within wetland, the disturbed areas will be stabilized and appropriate erosion control best management practices will be implemented.

WATERWAYS

16. No work can be performed within the banks or below the ordinary high watermark of any navigable waterway or stream. No crossing of navigable waterways with equipment can occur.

17. Any soil being disturbed within 75 feet of an ordinary high water mark of any navigable waterway or stream to be stabilized within 24 hours of construction completion.

SURFACE RESTORATION

18. Temporary soft restoration to stabilize the work site shall be completed in a timely manner during and immediately following utility construction.

19. The contractor performing the work shall notify WisDOT as soon as final restoration has been completed and the work site is ready for inspection.

FRAC-OUT

20. Refer to the frac-out contingency plan for any boring work being performed.

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
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Gas Pipeline	Exis UG Fiber Cable
Water Line	Exis UG Power Line
San. Sewer	Exis UG Telephone
Storm Sewer	Exis CATV
Exis UG Telephone	Exis FiberOptic
Exis CATV	Black Iron Pipe
Exis FiberOptic	Galvanized Iron Pipe
B.I.P.	
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VERTICAL SCALE (DWG) :	
VERTICAL SCALE (PROF) :	
MAP PROJECTION :	
DRAWING NUMBER :	ECP 2

County: MILWAUKEE

Township:

MUNICIPALITY MIL / BROWN DEER

Section: 9

Town: 8N

Range: 21E

