

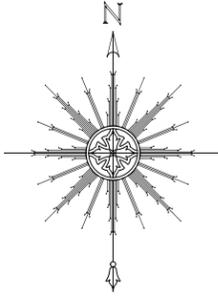
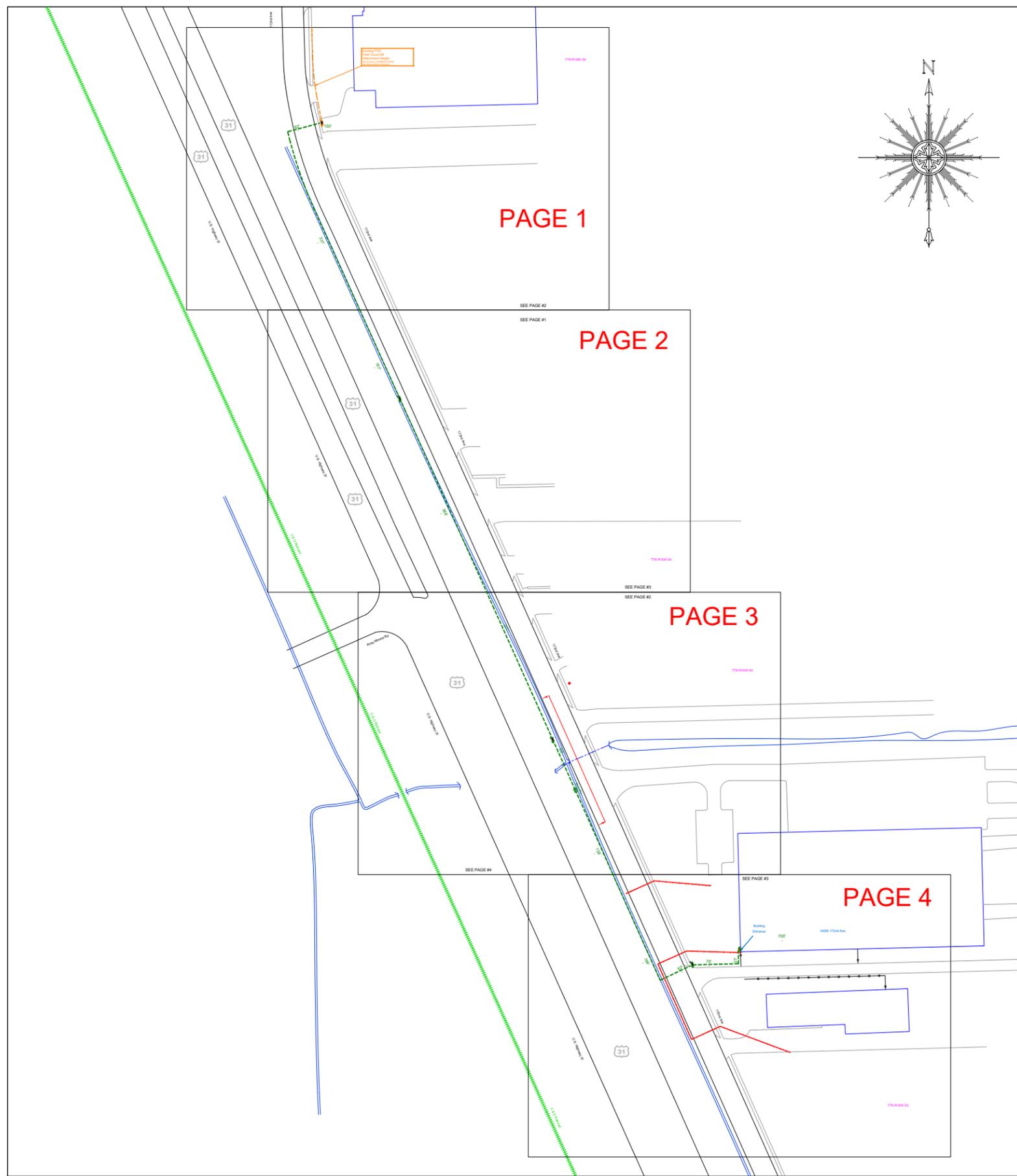


**Advanced Communications & Data  
KEPS Technologies, Inc. d/b/a ACD.net  
FIBER OPTIC CABLE ROUTE**

**Project Number  
LC012699FO041052**

[517-999-9999](tel:517-999-9999)

1800 Grand River Ave  
Lansing MI 48906



**Advanced Communications & Data**  
**517-999-9999**  
 1800 Grand River Ave  
 Lansing MI 48906

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MISS DIG 1-800-482-7171	O.U.P.S 1-800-362-2764	INDIANA811 1-800-382-5544
----------------------------	---------------------------	------------------------------

**Project Manager**

K. LaBelle

**Permitting**

K. LaBelle

**Transport Manager**

G. Gould

Drawn By	Date
K. Ngo	01/03/24

As Built	Date

**Revisions**

REV #	DESCRIPTION	BY	DATE
1	Changed Building Entrance	KN	02/07/24
2	Added Property Lines and Traffic Control Notes	KN	02/08/24
3	Changed Interior Fiber Count	DW	02/08/24
4	Moved UG Fiber To The West Side of Road	KN	03/11/24
5	Adjusted and dimensioned infrastructure	DW	3/20/24
6	Changed infrastructure dim color, made running line heavy, changed fiber ct	DW	4-9-24

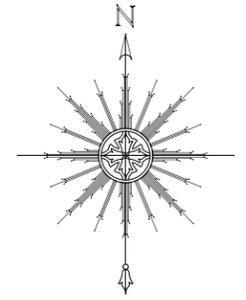
**Exhibit:** N/A

Remarks:		PEACHTREE ID: 41052	
SCALE: 1" = NTS	TRRS:		
COUNTY: Ottawa	TOWNSHIP: Grand Haven	CITY:	PROJECT ID: LC012699FO041052
			CUSTOMER NUMBER: 12699

**GRID KEY**

**CONSTRUCTION NOTES**

1. CONTRACTOR SHALL EMAIL \_\_LABELLE.KATELYN@ACD.NET\_\_ WITH DAILY STATUS UPDATES AND ONCE WORK IS COMPLETE
2. MUNICIPALITY MUST BE NOTIFIED AT LEAST 48 HOURS BEFORE ANY WORK COMMENCES
3. ALL APPROPRIATE PERMITS AND ASSOCIATED DRAWINGS SHALL BE ON-SITE AT ALL TIMES DURING CONSTRUCTION
4. NOTIFY THE APPROPRIATE UTILITY NOTIFICATION SERVICE 72 HOURS PRIOR TO CONSTRUCTION.  
MICHIGAN- MISS DIG (1-800-482-1711), OHIO- O.U.P.S. (1-800-362-2764) OR INDIANA- INDIANA811 (1-800-382-5544)
5. ALL UTILITIES MUST BE FIELD VERIFIED
6. ALL HANDHOLES ARE TO INCLUDE 150' OF COILED FIBER FOR STORAGE
7. NEW INSTALLATION SHALL MAINTAIN 18" CLEARANCE FROM ALL EXISTING UTILITIES UNLESS NOTED OTHERWISE
8. ALL ROAD AND DRIVEWAY CROSSINGS WILL BE DIRECTIONAL BORED
9. CONSTRUCTION SHALL NOT DEVIATE FROM APPROVED PLANS WITHOUT WRITTEN CONSENT FROM BOTH THE MUNICIPALITY AND AN AUTHORIZED ACD.NET REPRESENTATIVE
10. PROPER SIGNAGE AND TRAFFIC CONTROL IS REQUIRED BEFORE STARTING ANY WORK WITHIN THE PUBLIC RIGHT OF WAY
11. ALL BACKFILL MATERIAL WITHIN THE ROAD RIGHT OF WAY OR NEAR SIDEWALKS AND PATHWAYS SHALL MEET THE REQUIREMENTS OF MDOT CLASS II MATERIAL, COMPACTED TO 95% OF ITS MAXIMUM DENSITY IN SUCCESSIVE LAYERS THAT ARE NO MORE THAN 12" THICK, UNLESS OTHERWISE AUTHORIZED
12. ALL SODDED AREAS THAT MAY DISTURBED DURING CONSTRUCTION ARE TO BE RESTORED WITH 3" QUALITY TOP SOIL, SEED AND MULCH
13. ALL CONCRETE/SIDEWALK AREAS THAT MAY BE DISTURBED ARE TO BE RESTORED TO A LIKE OR BETTER CONDITION.
14. CONTRACTOR SHALL PROVIDE AS-BUILTS ON ALL WORK WITHIN 5 BUSINESS DAYS OF COMPLETION



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**NOTES**

Proposed Anchor Distance and Direction		Fiber Count W/ Segment Number		Man Hole		<b>Typical Line Types</b> Rail Road Tracks Proposed Underground Fiber Existing Underground Fiber Right Of Way Boundary Side Walk and Driveway Fiber Design Line Aerial Fiber Center Line Water Main Forced Water Main Storm Sewer Sanitary Sewer Gas Main Foreign UG Fiber AT&T UG Fiber UG Electric Oil Line Fence TRS Boundary Civil Boundary Property Boundary Water Boundary
Proposed ACD Communications Poles		Fiber Termination Point		Storm Drain		
Proposed ACD NON Communications Pole		ACD Splice Case Six Way		ACD Regen Cabinet		
Colocation Poles (ACD Communication Equipment on Existing Poles)		ACD Splice Case Four Way		TRS Section Corner		
Joint Use Pole NON Transformer		ACD Splice Case Three Way		Fire Hydrant		
Joint Use Pole Transformer		ACD Splice Case Two Way		Location Address		
Foreign Pole Indicator		ACD Fiber Tap Capsule		Foliage		
Joint Use Pole NON Transformer- UNUSED		ACD RE-Box		Centerline Marker		
Joint Use Pole Transformer- UNUSED		Foreign Splice Case		Station Marker		
Street Light		Storage Loop w/ Footage and Segment		Use of Double Dead End		
Existing Traffic Signal Pole		ACD Buried Cable Marker				
Pole Number Marker		ACD Hand Hole 17" x 12"				
Proposed Riser		ACD Hand Hole 24" x 13"				
Make Ready Symbol w/ Attachment and Sag Heights		ACD Hand Hole 24" x 36"				
Down Ground		ACD Hand Hole 30" x 48"				
Bonding Clamp		Foreign Hand Hole				
Fiber Overlash		Proposed Bore Pit Location				
Overhead Guy Marker		Communications Tower				
Span Length and Segment ID						

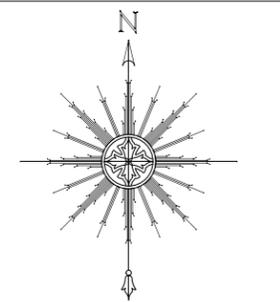
**FIBER DESIGN LINE COLOR CODE**

	432
	288
	216
	144
	96
	72
	48
	36
	24
	12
	2

NOTE:  
WHEN IN QUESTION DEFAULT TO  
Fiber Count  
W/ Segment Number

Our Match Lines can be found in the lower right hand corner and represents the neighboring page numbers.

WEST PAGE	NORTH PAGE	EAST PAGE
	PAGE	
	SOUTH PAGE	



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K. Ngo 01/03/24

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COUNTY: Ottawa	TOWNSHIP: Grand Haven
CITY:	PROJECT ID: LC012699FO041052
	CUSTOMER NUMBER: 12699

SYMBOLS
LEGEND

## General Site Preparation For Installing Hand Holes (All Sizes)

These guidelines for installing ACD Hand holes are provided as a general guide and actual site conditions may warrant the use of additional installations procedures not covered here. Follow all project specifications when installing ACD Hand holes.

1. Excavate the earth approximately 12" wider and longer than the hand hole as well as 6" deeper than the depth of the hand hole. Fill the excavation with a 6" base of pea stone or crushed rock to ensure proper drainage. Tamping is recommended to provide a compact and level surface for the hand hole to be placed upon.
2. Wood bracing should be used inside the hand hole to ensure minimal sidewall deflection when backfilling. Temporary bracing can be constructed out of construction grade lumber. Start by using (1) 2x4 to brace the end walls and (2) 2x4s to brace the side walls, finish with (1) 2x4 from one side of the ring to the other. Do not install the bracing to tight to prevent damage.
3. Lift the Hand hole into the excavation using the lifting bolts or lifting wires. Check the top of the box is flush with the finished grade. Any necessary adjustments should be made to bring it to finished grade.
4. Backfill with clean, loose soil and compact to a minimum of 90%-95% compaction. Remove bracing materials and secure cover using included hardware.

## General Hand Hole Notes (All Sizes)

1. All Hand holes are to contain 150' of coiled up storage.
2. All Conduits are to be brought up through the bottom of the hand hole. No Conduits are to penetrate the sides of the enclosure. All conduits are to be tagged with the colored zip ties following this system:  
Red= Riser  
Blue= North  
Yellow= West  
Green= South  
Black= East
3. All Hand holes are to contain a 5/8" DIA x 8' grounding rod to be placed in a corner 3" away from each side and 18" above tamped earth.

## Restoration Notes

1. All backfill material within the road right of way or near sidewalks and pathways shall meet the requirements of MDOT Class II material, compacted to 95% of its maximum density in successive layers that are no more than 12" thick, unless otherwise authorized
2. All sodded areas that may disturbed during construction are to be restored with 3" quality top soil, seed and mulch
3. All Concrete/Sidewalk areas that may be disturbed are to be restored to a like or better condition.

## Underground Coupler Detail

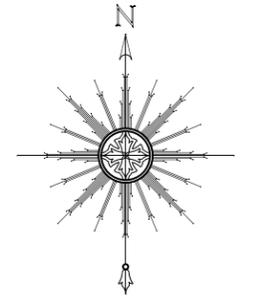
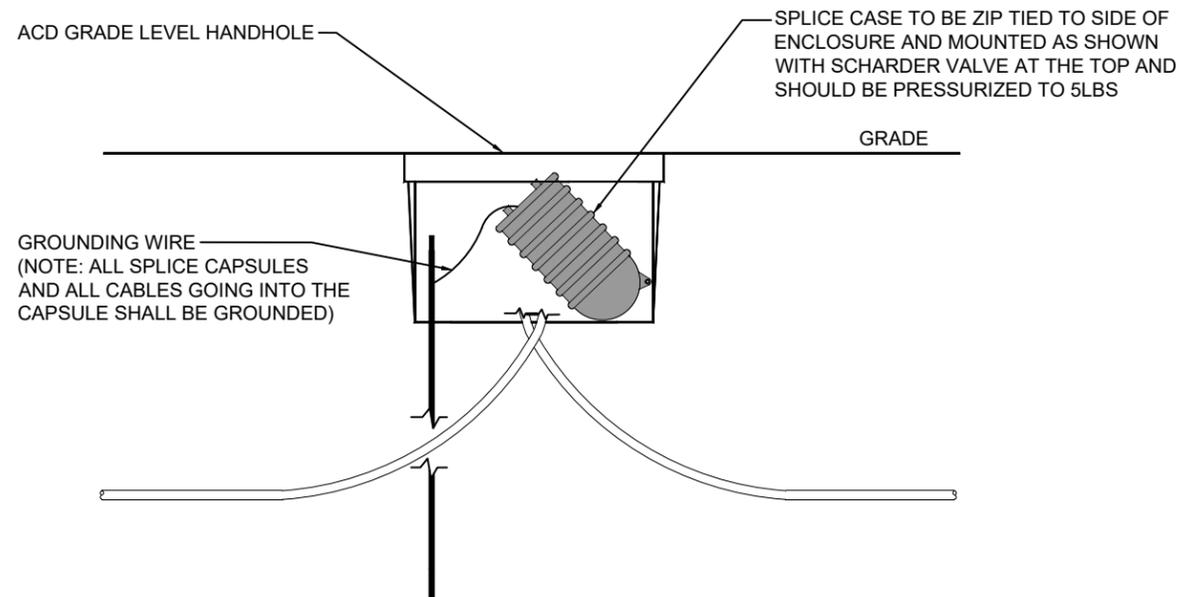
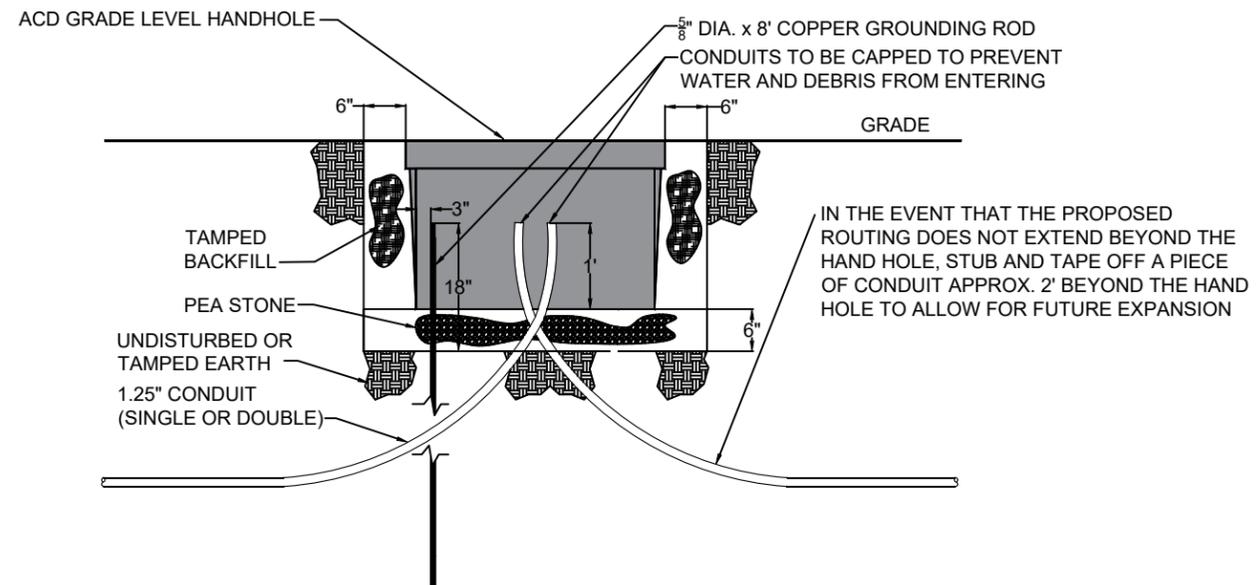
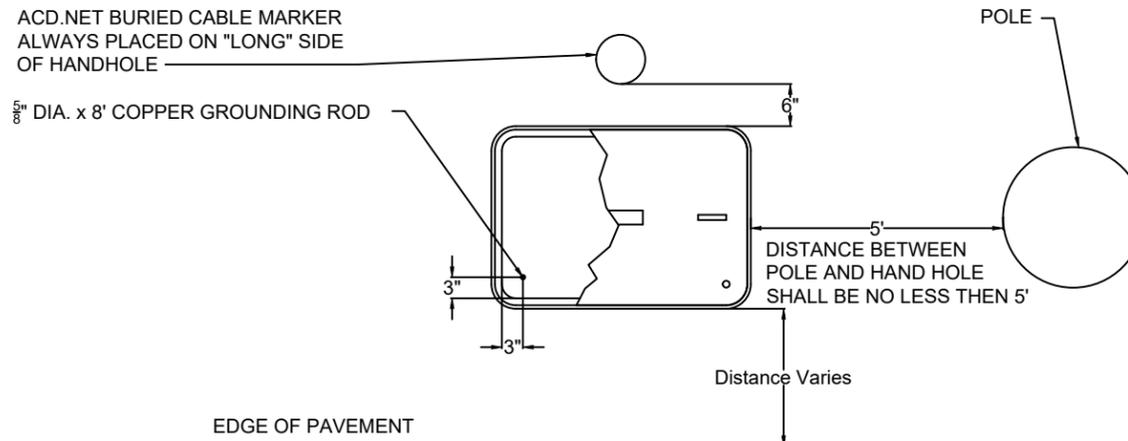
### PUSH2CONNECT™ Coupler

## Do Not Unscrew!

**Push-On-Only!**  
(Loosening collars prior to installing can cause improper installation, create air loss, or coupler failure)

**Air Tight - Water Tight**  
Tested to **GREATER THAN 1500#**  
**Pull-Out**  
**GREATER THAN 450 (psi) air pass-through**

Couplers for the Following Sizes	Duct OD	Color	Box Qty	Part Number
1" Smoothwall HDPE	1.315"	Yellow	85	P2C-1.315
1.25" Smoothwall HDPE	1.66"	Blue	100	P2C-1.66
1.25" Smoothwall HDPE True Sized	1.58"	Black	100	P2C-1.58
2" Smoothwall HDPE	2.375"	Orange	24	P2C-2.375
Transition Coupler 1.25" to 1.25"	1.58" to 1.66"	Black AND Blue	100	P2C-1.66-1.58trans



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### Project Manager

K. LaBelle

### Permitting

K. LaBelle

### Transport Manager

G. Gould

Drawn By Date

K. Ngo 01/03/24

As Built Date

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### Exhibit: N/A

HAND HOLE

**INSTALLATION**

NOTES AND DETAILS

Remarks:

PEACHTREE ID: 41052

SCALE: 1" = NTS

TRS:

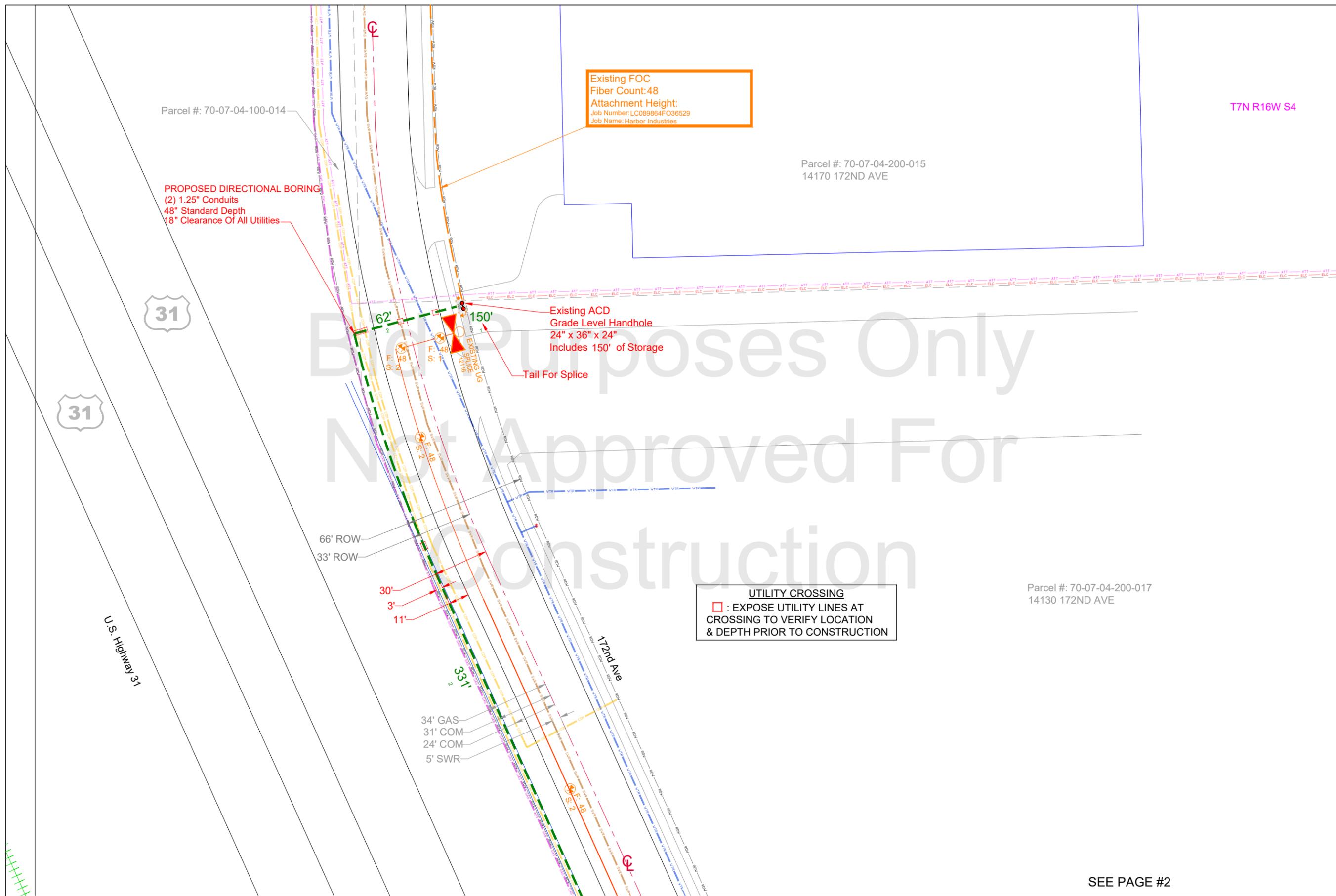
COUNTY: Ottawa

TOWNSHIP: Grand Haven

CITY:

PROJECT ID: LC012699FO041052

CUSTOMER NUMBER: 12699



Existing FOC  
 Fiber Count: 48  
 Attachment Height:  
 Job Number: LC089864FO36529  
 Job Name: Harbor Industries

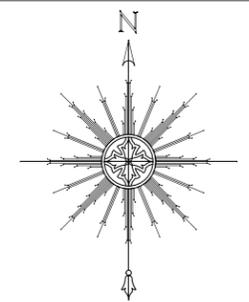
T7N R16W S4

PROPOSED DIRECTIONAL BORING  
 (2) 1.25" Conduits  
 48" Standard Depth  
 18" Clearance Of All Utilities

Existing ACD  
 Grade Level Handhole  
 24" x 36" x 24"  
 Includes 150' of Storage  
 Tail For Splice

UTILITY CROSSING  
 □ : EXPOSE UTILITY LINES AT  
 CROSSING TO VERIFY LOCATION  
 & DEPTH PRIOR TO CONSTRUCTION

Not Approved For  
 Construction



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**As Built** **Date**

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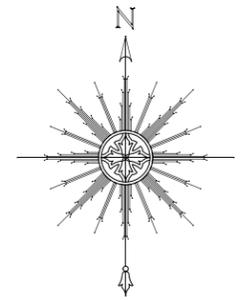
SEE PAGE #2

**Exhibit:** N/A

Remarks:		PEACHTREE ID: 41052	
SCALE: 1" = 50'	TRS: T7N R16W S4		
COUNTY: Ottawa	TOWNSHIP: Grand Haven	CITY:	PROJECT ID: LC012699FO041052
		CUSTOMER NUMBER: 12699	

SEE PAGE #1

Parcel #: 70-07-04-200-030  
14110 172ND AVE



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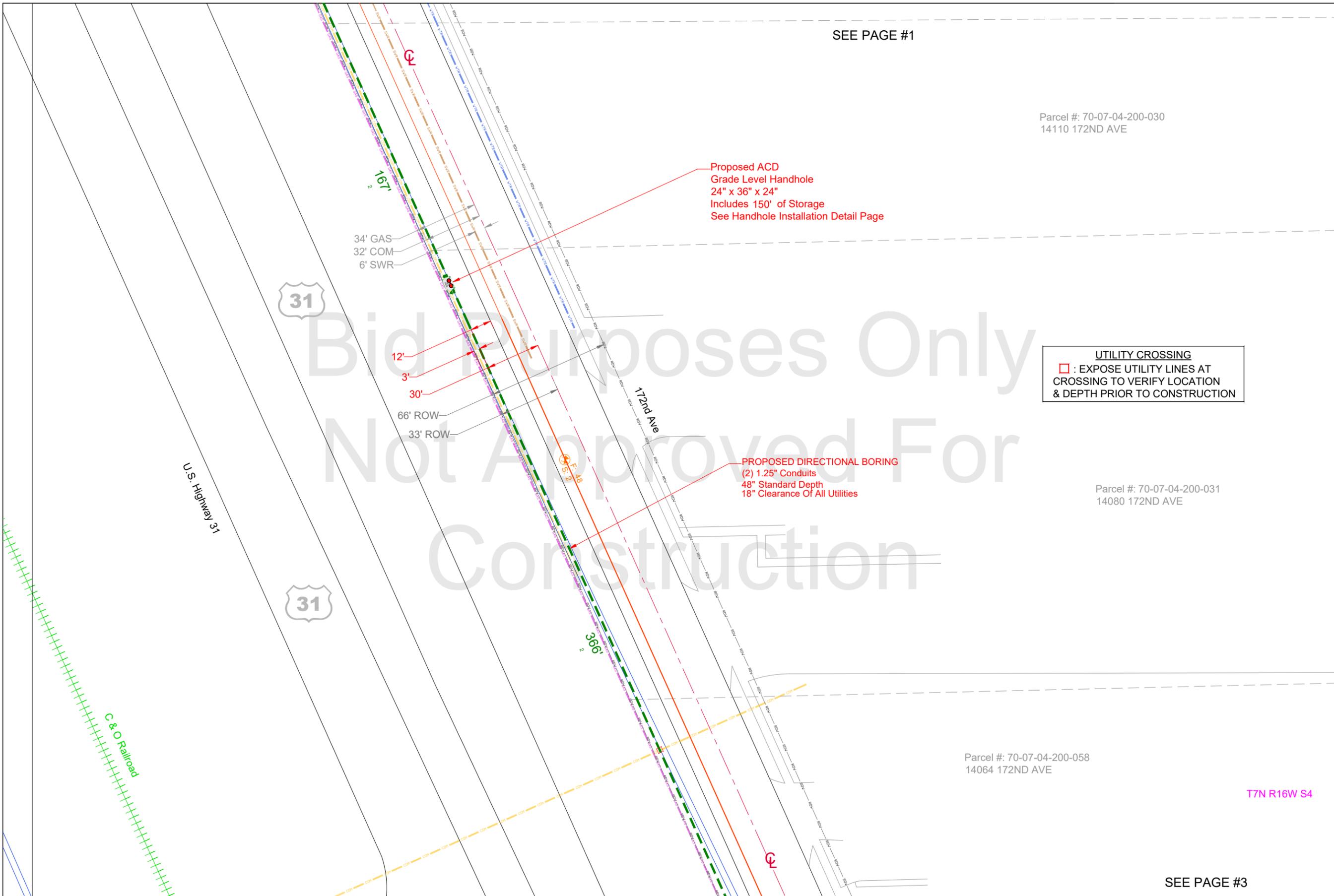
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Parcel #: 70-07-04-200-031  
14080 172ND AVE

Parcel #: 70-07-04-200-058  
14064 172ND AVE

T7N R16W S4

SEE PAGE #3

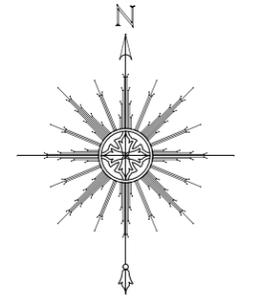


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SEE PAGE #2

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14064 172ND AVE

**UTILITY CROSSING**  
□ : EXPOSE UTILITY LINES AT  
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& DEPTH PRIOR TO CONSTRUCTION



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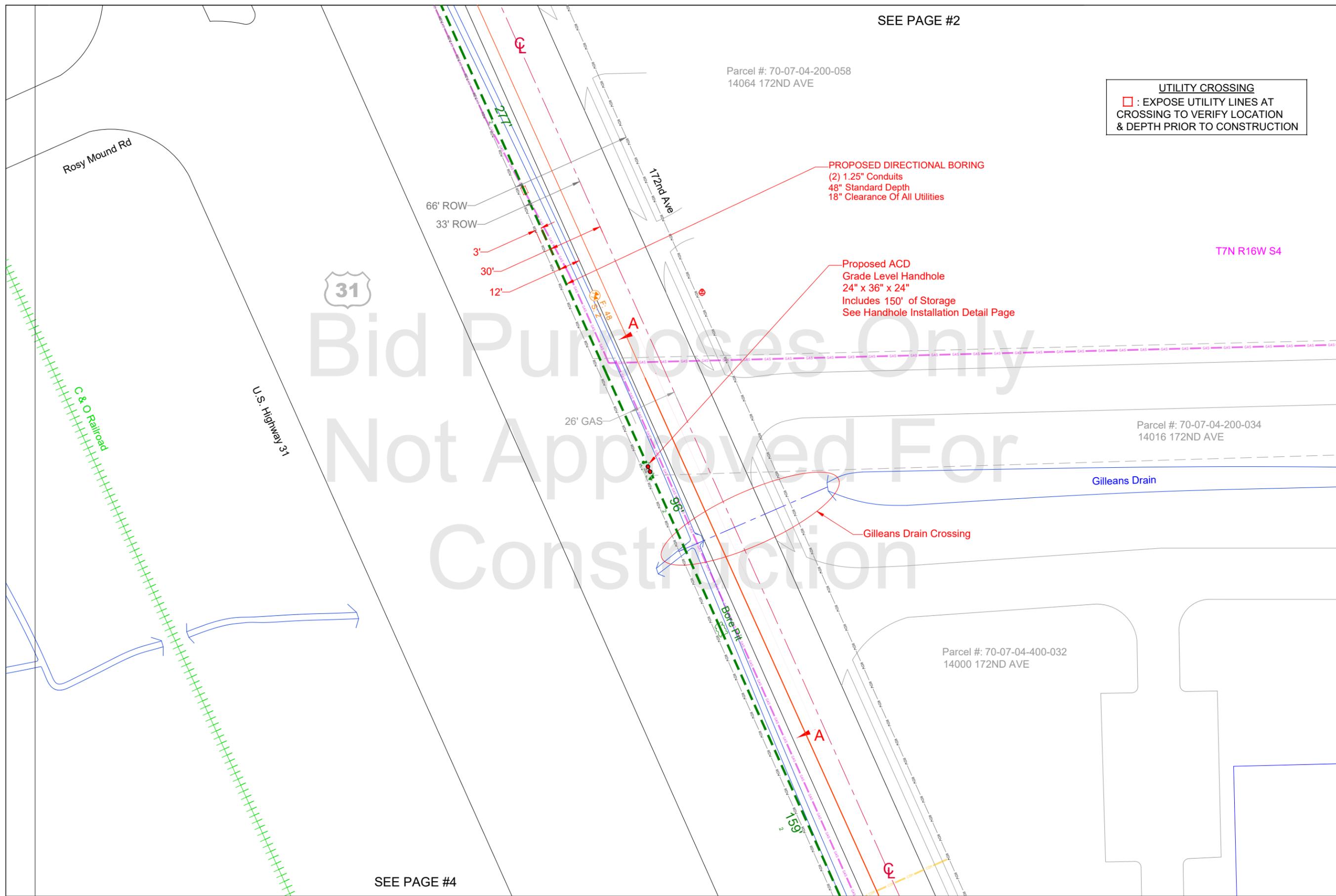
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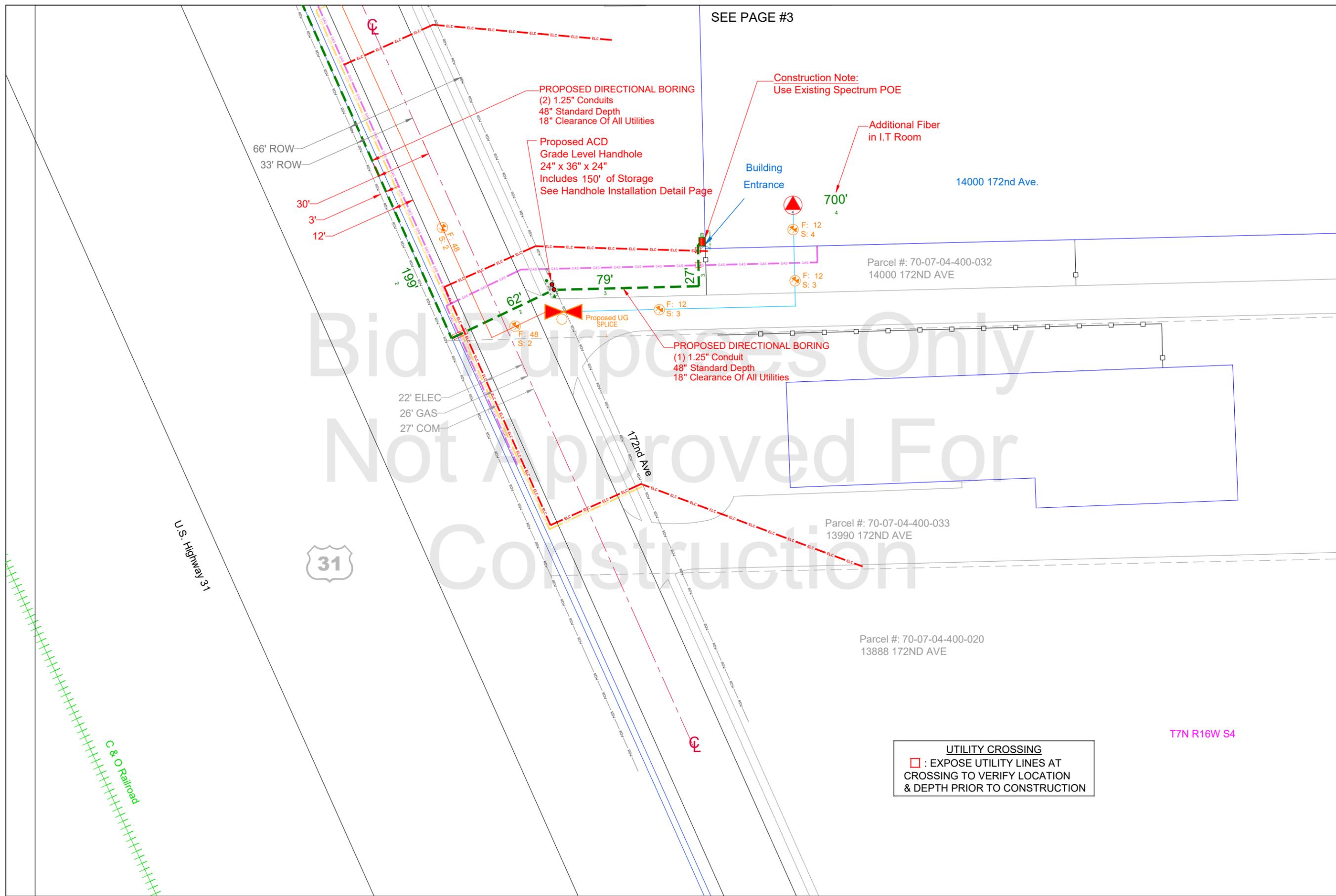


Bid Purposes Only  
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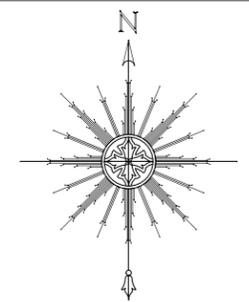
SEE PAGE #4

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PAGE 3



SEE PAGE #3



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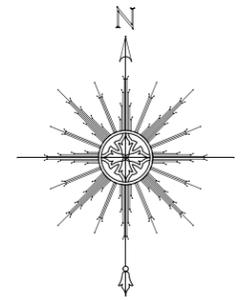
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 □ : EXPOSE UTILITY LINES AT CROSSING TO VERIFY LOCATION & DEPTH PRIOR TO CONSTRUCTION

T7N R16W S4

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		CUSTOMER NUMBER: 12699	

**Exhibit:** N/A

GILLEANS DRAIN CROSSING  
ELEVATION DETAIL "A-A"  
VIEW IS LOOKING SOUTHWEST



Advanced Communications & Data  
517-999-9999  
1800 Grand River Ave  
Lansing MI 48906

**PROPRIETARY  
INFORMATION NOT FOR  
DISCLOSURE**

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Contact the Local ONE CALL AGENCY 72 HOURS PRIOR TO CONSTRUCTION FOR EXACT UTILITY LOCATIONS AT:

MISS DIG 1-800-482-7171	O.U.P.S 1-800-362-2764	INDIANA811 1-800-382-5544
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**Project Manager**

K. LaBelle

**Permitting**

K. LaBelle

**Transport Manager**

G. Gould

**Drawn By Date**

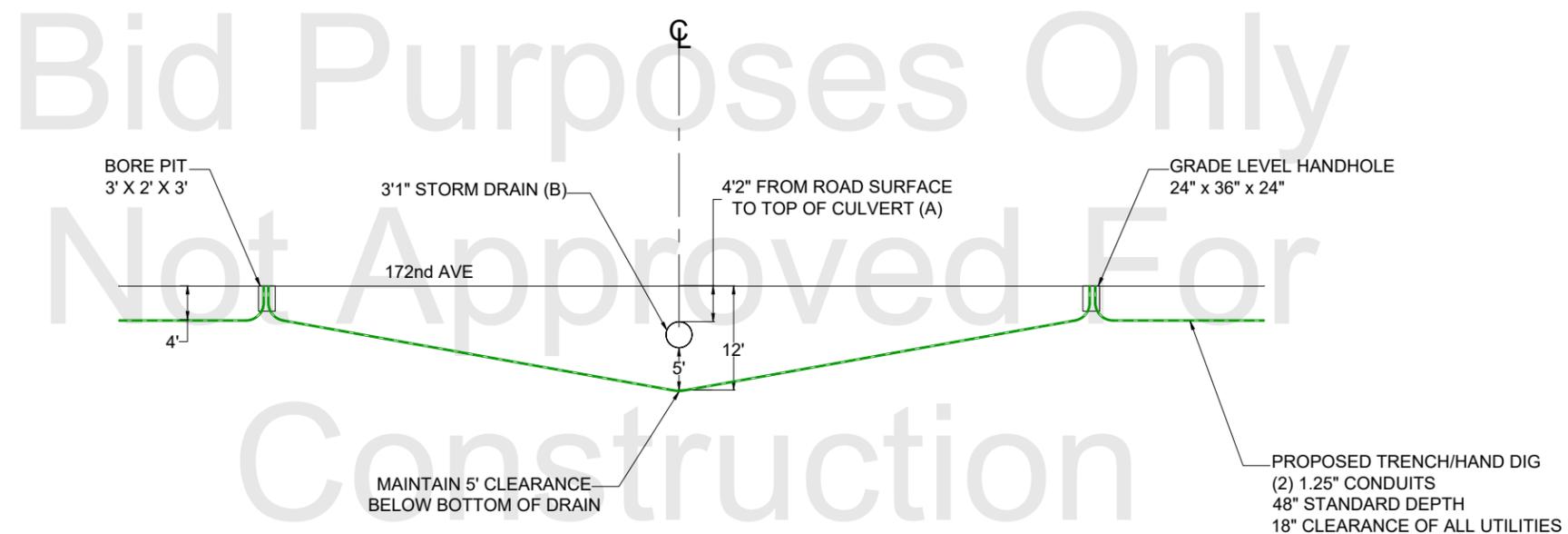
K. Ngo 01/03/24

**As Built Date**

**Revisions**

REV #	DESCRIPTION	BY	DATE
1	Changed Building Entrance	KN	02/07/24
2	Added Property Lines and Traffic Control Notes	KN	02/08/24
3	Changed Interior Fiber Count	DW	02/08/24
4	Moved UG Fiber To The West Side of Road	KN	03/11/24
5	Adjusted and dimensioned Infrastructure	DW	3/20/24
6	Changed Infrastructure dim color, made running line heavy, changed fiber ct	DW	4-9-24

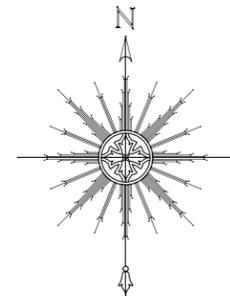
**Exhibit: N/A**



**A-A** ELEVATION VIEW  
1" = 20'

Remarks:			PEACHTREE ID: 41052	
SCALE: 1" = 20'	TRS: T7N R16W S4			
COUNTY: Ottawa	TOWNSHIP: Grand Haven	CITY:	PROJECT ID: LC012699FO041052	CUSTOMER NUMBER: 12699

Gilleans Drain
Elevation AA
172 nd Ave



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K. LaBelle

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G. Gould

Drawn By	Date
K. Ngo	01/03/24

As Built	Date

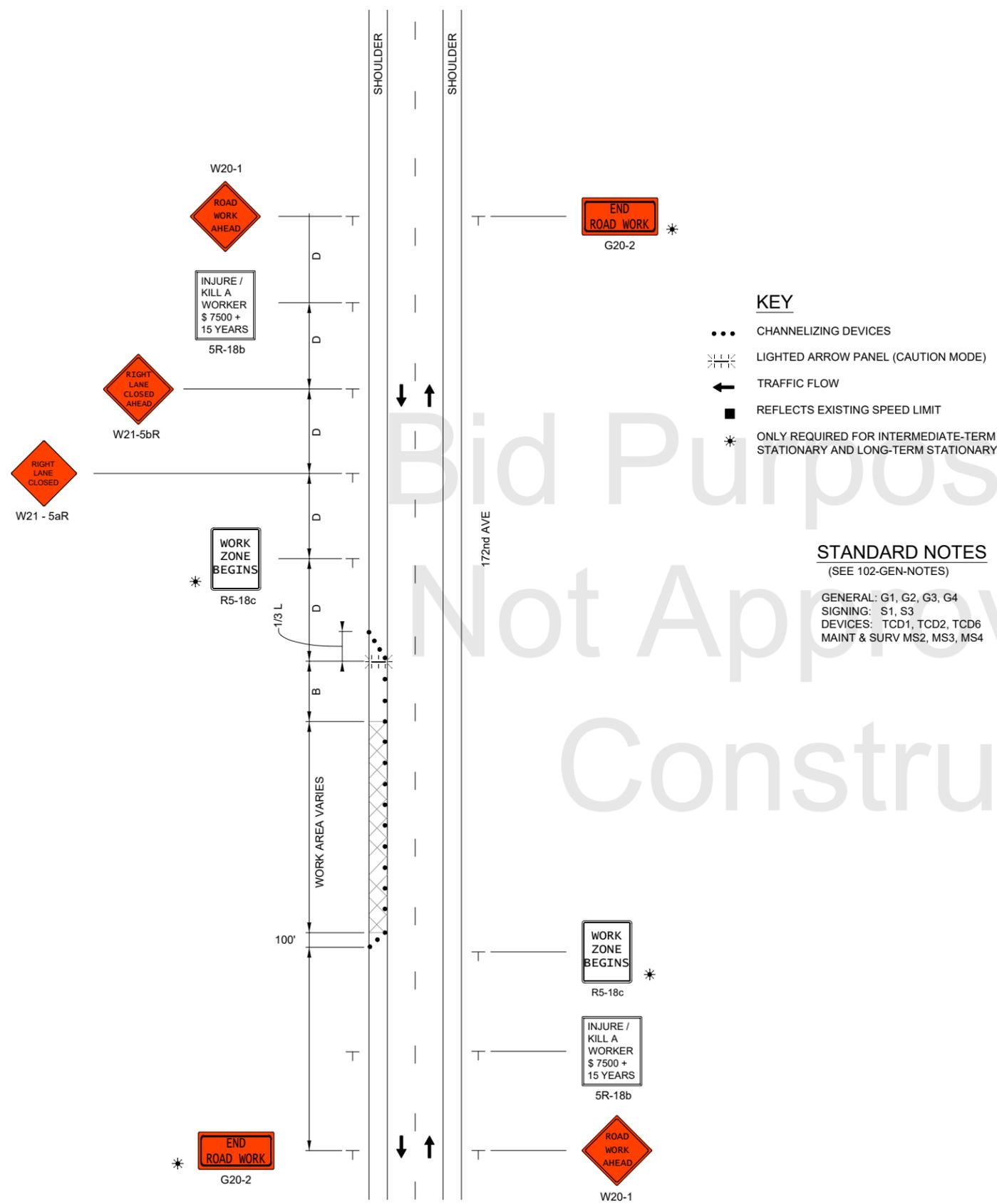
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**Exhibit:** N/A

Holt to Mason Connector\channeling.jpg

C:\Users\Ngo.khanh\Downloads\Holt to Mason Connector\distances.jpg



**KEY**

- ... CHANNELIZING DEVICES
- ⊘ LIGHTED ARROW PANEL (CAUTION MODE)
- ↑ TRAFFIC FLOW
- REFLECTS EXISTING SPEED LIMIT
- \* ONLY REQUIRED FOR INTERMEDIATE-TERM STATIONARY AND LONG-TERM STATIONARY

**STANDARD NOTES**

(SEE 102-GEN-NOTES)

GENERAL: G1, G2, G3, G4  
 SIGNING: S1, S3  
 DEVICES: TCD1, TCD2, TCD6  
 MAINT & SURV MS2, MS3, MS4

Bid Purposes Only  
 Not Approved For  
 Construction

Remarks:

SCALE: 1" = 50'

COUNTY: Ottawa

TOWNSHIP: Grand Haven

TRS:

CITY:

PROJECT ID: LC012699FO041052

PEACHTREE ID: 41052

CUSTOMER NUMBER: 12699

Shoulder

Closure