

- General Note**
1. SEE SCHEDULE FOR LUMINAIRE MOUNTING HEIGHT.
  2. CALCULATIONS ARE SHOWN IN FOOTCANDLES AT: 0' - 0"

THE ENGINEER AND/OR ARCHITECT MUST DETERMINE APPLICABILITY OF THE LAYOUT TO EXISTING / FUTURE FIELD CONDITIONS. THIS LIGHTING LAYOUT REPRESENTS ILLUMINATION LEVELS CALCULATED FROM LABORATORY DATA TAKEN UNDER CONTROLLED CONDITIONS IN ACCORDANCE WITH ILLUMINATING ENGINEERING SOCIETY APPROVED METHODS. ACTUAL PERFORMANCE OF ANY MANUFACTURER'S LUMINAIRE MAY VARY DUE TO VARIATION IN ELECTRICAL VOLTAGE, TOLERANCE IN LAMPS, AND OTHER VARIABLE FIELD CONDITIONS. MOUNTING HEIGHTS INDICATED ARE FROM GRADE AND/OR FLOOR UP.

THESE LIGHTING CALCULATIONS ARE NOT A SUBSTITUTE FOR INDEPENDENT ENGINEERING ANALYSIS OF LIGHTING SYSTEM SUITABILITY AND SAFETY. THE ENGINEER AND/OR ARCHITECT IS RESPONSIBLE TO REVIEW FOR MICHIGAN ENERGY CODE AND LIGHTING QUALITY COMPLIANCE.

UNLESS EXEMPT, PROJECT MUST COMPLY WITH LIGHTING CONTROLS REQUIRMENTS DEFINED IN ASHRAE 90.1 2013. FOR SPECIFIC INFORMATION CONTACT GBA CONTROLS GROUP AT ASG@GASSERBUSH.COM OR 734-266-6705.

**Alternates Note**  
THE USE OF FIXTURE ALTERNATES MUST BE RESUBMITTED TO THE CITY FOR APPROVAL.

**Ordering Note**  
FOR INQUIRIES CONTACT GASSER BUSH AT QUOTES@GASSERBUSH.COM OR 734-266-6705.

**Mounting Height Note**  
MOUNTING HEIGHT IS MEASURED FROM GRADE TO FACE OF FIXTURE. POLE HEIGHT SHOULD BE CALCULATED AS THE MOUNTING HEIGHT LESS BASE HEIGHT.

**Drawing Note**  
THIS DRAWING WAS GENERATED FROM AN ELECTRONIC IMAGE FOR ESTIMATION PURPOSE ONLY. LAYOUT TO BE VERIFIED IN FIELD BY OTHERS.

Statistics							
Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min	Avg/Max
GRADE @ 0'	+	0.4 fc	12.4 fc	0.0 fc	N/A	N/A	0.0:1
BOUNDARY	+	0.0 fc	0.1 fc	0.0 fc	N/A	N/A	0.0:1

Schedule										
Symbol	Label	QTY	Manufacturer	Catalog Number	Description	Lamp	Lumens per Lamp	LLF	Wattage	Mounting Height
□	A	55	Lithonia Lighting	DSX0 LED P6 30K 175 HVOLT	DSX0 LED P6 30K 175 HVOLT	LED	14828	0.9	134	20'-0"
□	B	501	Lithonia Lighting	KAXW LED P1 30K R4 HVOLT	KAXW LED, PERFORMANCE PACKAGE 1, 3000K, TYPE 4, 120-277V	LED	3414	0.9	29	9'-0"
○	C	261	Generation Lighting	8338701-12	SMALL ONE LIGHT DOWNLIGHT OUTDOOR WALL LED A19 3000K	LED	1376	0.9	11.21	8'-0"

**View 1**  
**N.T.S.**



VILLAGE OF ANN ARBOR  
PHOTOMETRIC SITE PLAN  
PREPARED FOR: LAND DESIGN STUDIO  
GASSER BUSH ASSOCIATES  
WWW.GASSERBUSH.COM

**Designer**  
DS/KB  
**Date**  
6/17/2022  
**Scale**  
Not to Scale  
**Drawing No.**  
#21-62736-V4  
**2 of 2**



Know what's below.  
Call before you dig.

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SECTION 16  
TOWN 2 SOUTH, RANGE 6 EAST  
ANN ARBOR TOWNSHIP  
WASHTENAW COUNTY, MICHIGAN

CLIENT: ROBERTSON BROTHERS CO.  
VILLAGE OF ANN ARBOR  
SITE PLAN  
PHOTOMETRIC PLAN - 2

DATE: JUNE 7, 2021


2021-10-11 PER CITY AND WCMRCD
2022-01-19 PER CITY AND WCMRCD
2022-03-31 PER CITY AND WCMRCD
2022-06-06 PER CITY
2022-06-16 PER CITY
2022-06-17 REV. PHOTOMETRICS
2022-07-12 PER CITY
2022-08-22 PER CITY
2022-09-15 PER CITY
2022-12-08 PER CITY

REVISIONS  
SCALE 0' 1" 2" 4" 8" 16" 32"  
NO SCALE

DR. SK CH. SS  
P.M. MB  
BOOK NA  
JOB 18002264  
SHEET NO. 77



# ALTA/NSPS LAND TITLE SURVEY

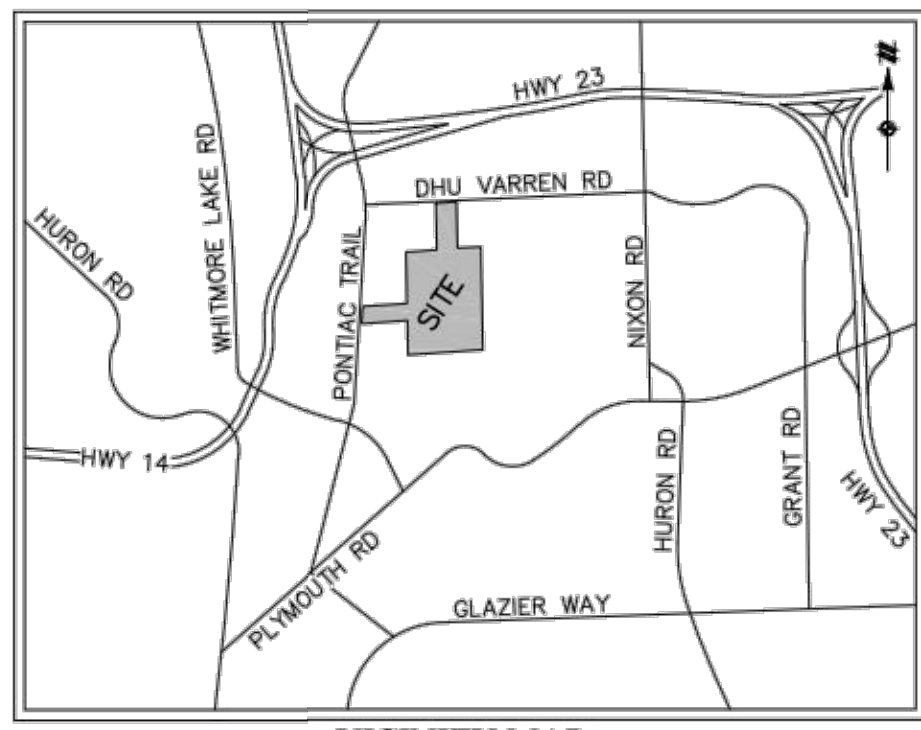


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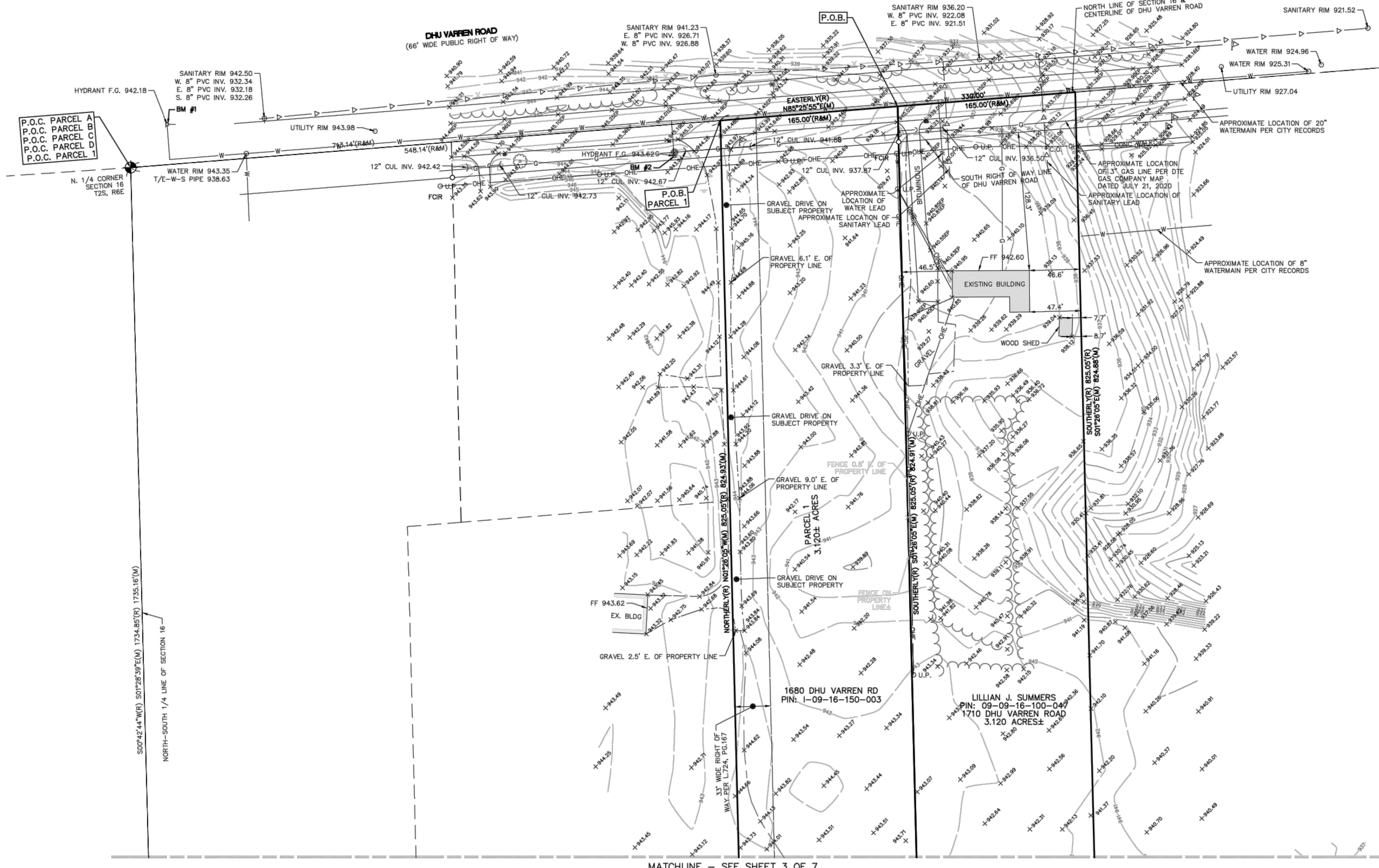
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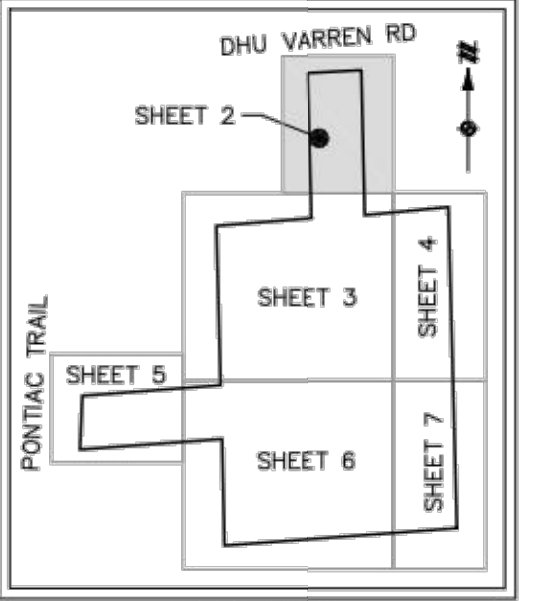
VICINITY MAP  
NOT TO SCALE

## LEGEND

	SECTION CORNER
	FOUND MONUMENT
	FOUND IRON PIPE
	FOUND IRON ROD
	FOUND CAPPED IRON ROD
	EXISTING MAILBOX
	EXISTING SIGN
	EXISTING LINE
	EXISTING LIGHTPOLE
	EXISTING WELL
	EXISTING TELEPHONE RISER
	EXISTING GUY ANCHOR WITH WIRE
	EXISTING UTILITY POLE
	EXISTING WATER BOX
	EXISTING HYDRANT WITH SHUTOFF
	EXISTING GAS VALVE
	EXISTING MANHOLE/CATCH BASIN
	EXISTING ELECTRIC TRANSFORMER
	EXISTING CULVERT
	EXISTING SANITARY CLEANOUT
	EXISTING UTILITY HANDHOLE
	EXISTING MONITORING WELL
	UNDERGROUND CABLE MARKER
	UNDERGROUND ELECTRIC MARKER
	UNDERGROUND FIBER MARKER
	UNDERGROUND GAS MARKER
	UNDERGROUND TELEPHONE MARKER
	UNDERGROUND WATER MARKER
	EXISTING GROUND ELEVATION
	EXISTING CURB ELEVATION
	EXISTING GUTTER ELEVATION
	EXISTING PAVEMENT ELEVATION
	RECORD
	MEASURED
	PLACE OF COMMENCEMENT
	POINT OF BEGINNING
	BOUNDARY LINE
	BOUNDARY ADJACENT LINE
	EASEMENT LINE
	SECTION LINE
	OVERHEAD UTILITY LINE
	APPROXIMATE UNDERGROUND FIBER LINE
	APPROXIMATE UNDERGROUND ELECTRIC LINE
	APPROXIMATE UNDERGROUND GAS LINE
	UNDERGROUND STORM LINE
	UNDERGROUND SANITARY LINE
	APPROXIMATE UNDERGROUND WATER LINE
	EXISTING FENCE
	EXISTING EDGE OF WATER
	EXISTING CENTERLINE OF DITCH
	EXISTING LIMITS OF VEGETATION
	EXISTING CURB AND GUTTER
	EXISTING GROUND CONTOUR
	EXISTING BUILDING
	SCHEDULE BII EXCEPTION



MATCHLINE - SEE SHEET 3 OF 7



KEY MAP  
NOT TO SCALE

SECTION 16  
TOWN 2 SOUTH, RANGE 6 EAST  
ANN ARBOR TOWNSHIP  
WASHTENAW COUNTY, MICHIGAN



866.850.4200 [www.atwell-group.com](http://www.atwell-group.com)  
TWO TOWNS SQUARE SUITE 700  
SOUTHFIELD, MI 48076  
248.447.2000

CLIENT: ROBERTSON BROTHERS COMPANY  
PROJECT: ALTA/NSPS LAND TITLE SURVEY  
DATE: 07/21/2020

REVISIONS

NO.	DATE	DESCRIPTION

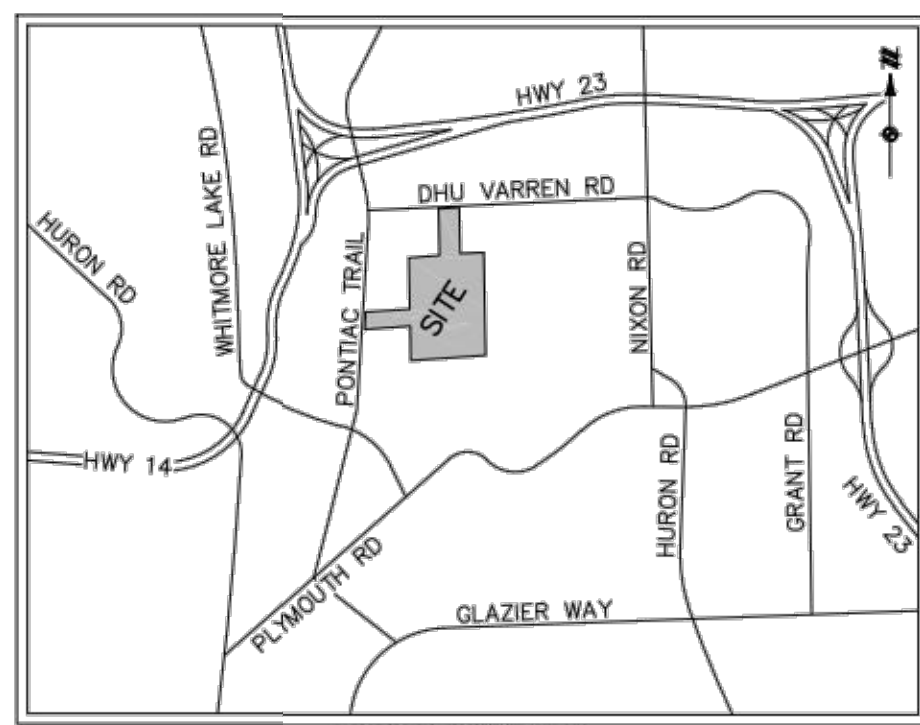
SCALE: 0 25 50  
1" = 50 FEET  
DR. JR | CH. ME  
P.M. M. EMBREE  
BOOK: NA  
JOB: 18002264  
SHEET NO.: 2 OF 7

VICINITY MAP: 18002264-AS-01.DWG - ANN ARBOR PONTIAC TRAIL\18002264-AS-01.DWG 6/7/2021 9:30 AM JULIE HINDS

CAD FILE: 18002264-AS-01.DWG

# ALTA/NSPS LAND TITLE SURVEY

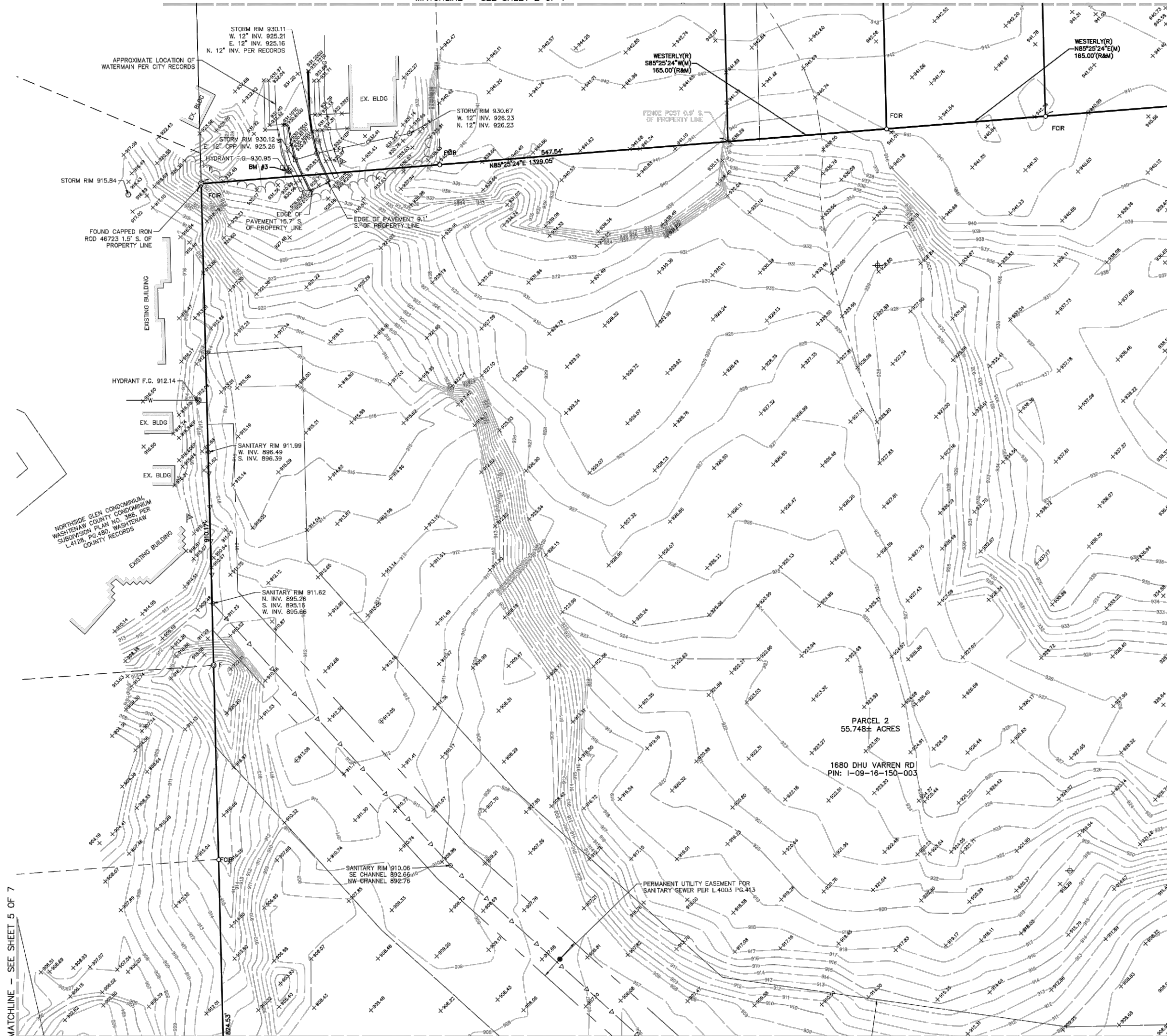
MATCHLINE - SEE SHEET 2 OF 7



VICINITY MAP  
NOT TO SCALE

## LEGEND

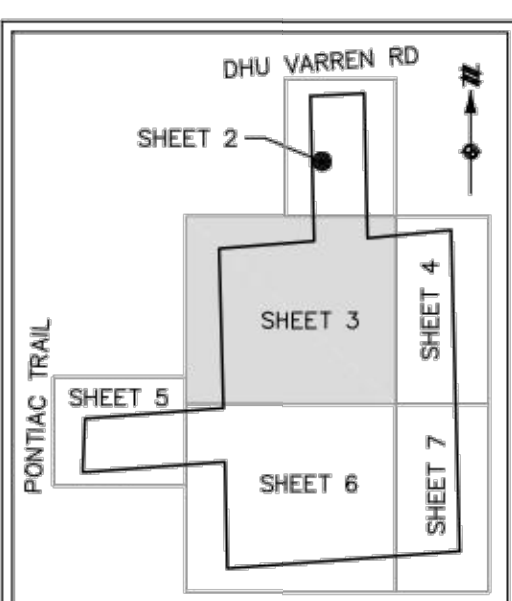
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	FOUND IRON PIPE
	FOUND IRON ROD
	FOUND CAPPED IRON ROD
	EXISTING MAILBOX
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	EXISTING TREE
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	EXISTING CURB AND GUTTER
	EXISTING GROUND CONTOUR
	EXISTING BUILDING
	SCHEDULE BIII EXCEPTION



MATCHLINE - SEE SHEET 5 OF 7

MATCHLINE - SEE SHEET 6 OF 7

MATCHLINE - SEE SHEET 4 OF 7



KEY MAP  
NOT TO SCALE



**811**  
Know what's below.  
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ANN ARBOR TOWNSHIP  
WASHTENAW COUNTY, MICHIGAN

CLIENT  
ROBERTSON BROTHERS COMPANY  
ALTA/NSPS LAND TITLE SURVEY  
LOCATED IN

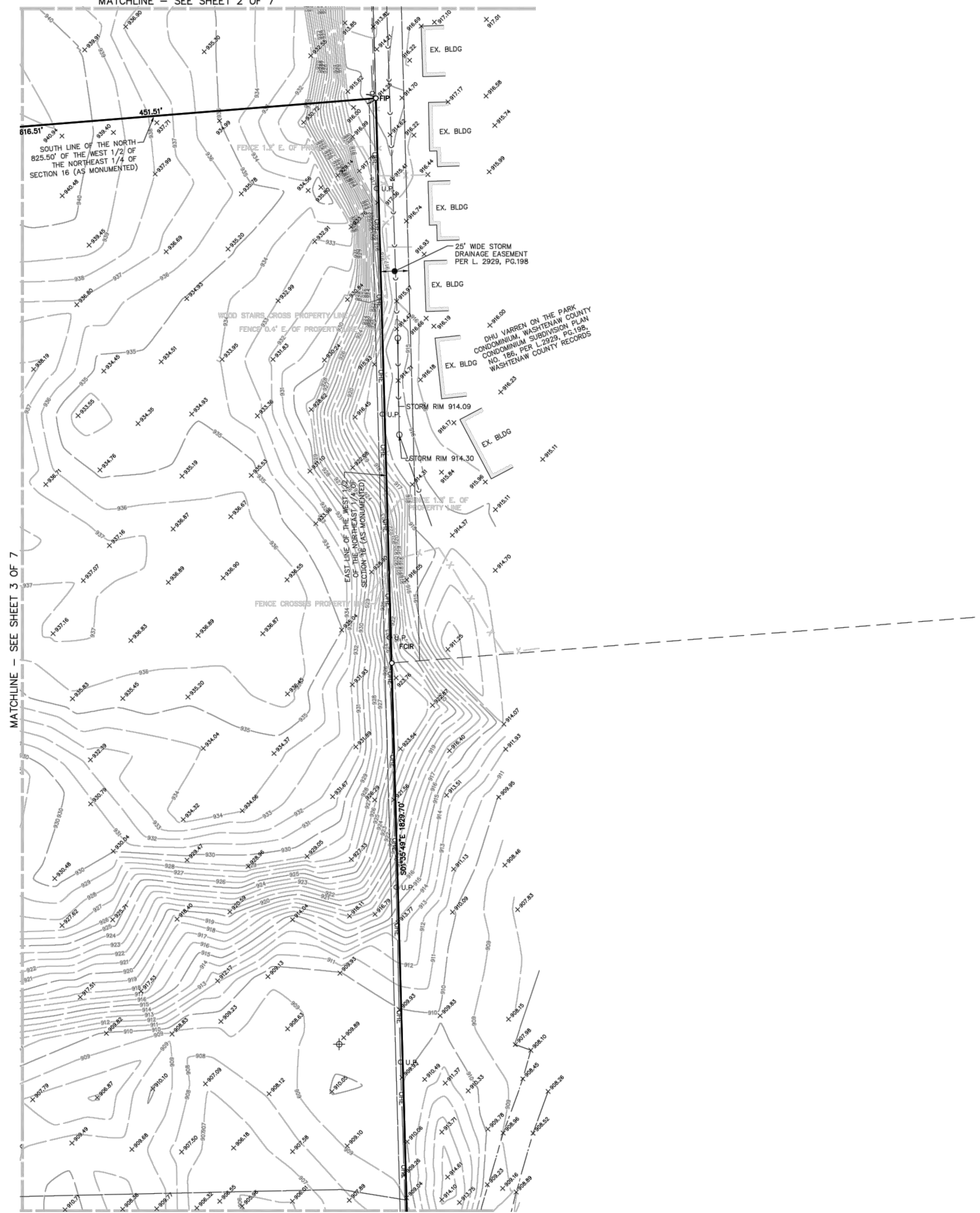
DATE  
07/21/2020

REVISIONS
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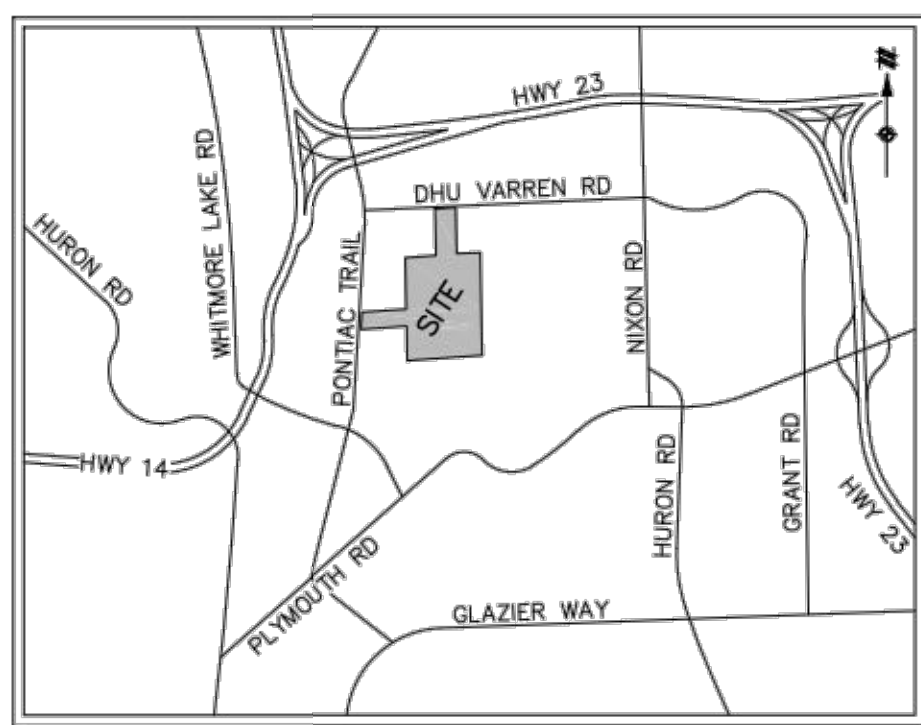
SCALE 0 25 50  
1" = 50 FEET  
DR. JR CH. ME  
P.M. M. EMBREE  
BOOK NA  
JOB 18002264  
SHEET NO. 3 OF 7  
CAD FILE: 18002264-AS-01.DWG

# ALTA/NSPS LAND TITLE SURVEY

MATCHLINE - SEE SHEET 2 OF 7



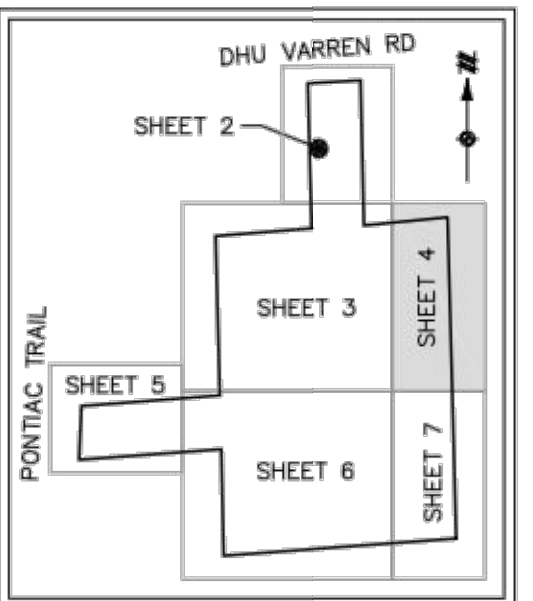
MATCHLINE - SEE SHEET 7 OF 7



VICINITY MAP  
NOT TO SCALE

## LEGEND

	SECTION CORNER
	FOUND MONUMENT
	FOUND IRON PIPE
	FOUND IRON ROD
	FOUND CAPED IRON ROD
	EXISTING MAILBOX
	EXISTING SIGN
	EXISTING TREE
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SECTION 16
TOWN 2 SOUTH, RANGE 6 EAST
ANN ARBOR TOWNSHIP
WASHTENAW COUNTY, MICHIGAN

CLIENT	ROBERTSON BROTHERS COMPANY
PROJECT	ALTA/NSPS LAND TITLE SURVEY
DATE	07/21/2020
REVISIONS	

07/21/2020	SURVEY EDITS
04/14/2021	ADDITIONAL TOPO
05/03/2021	REV. PER NEW TITLE
05/09/2021	REV. TO ALTA
06/03/2021	REV. PER NEW TITLE

SCALE	0 25 50
1" = 50 FEET	
DR.	JR CH. ME
P.M.	M. EMBREE
BOOK	NA
JOB	18002264
SHEET NO.	4 OF 7

C:\WORK\TRAIL\202004 - ANN ARBOR\ALTA\ALTA\202004-01-2196.dwg 6/2/2021 8:27 AM JULIE EMBREE

CAD FILE: 18002264-AS-01.DWG

# ALTA/NSPS LAND TITLE SURVEY

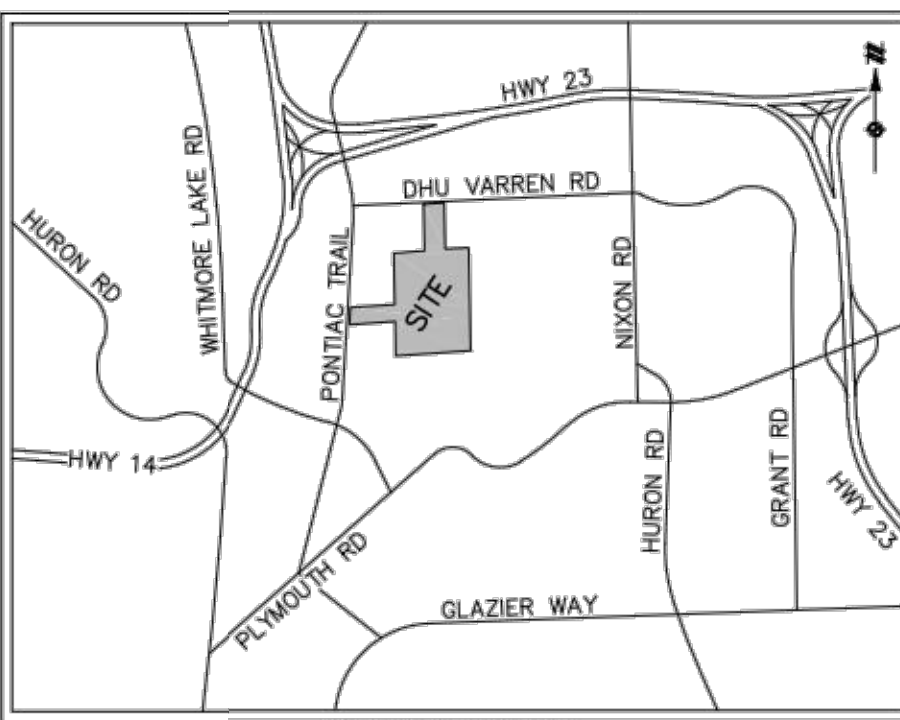


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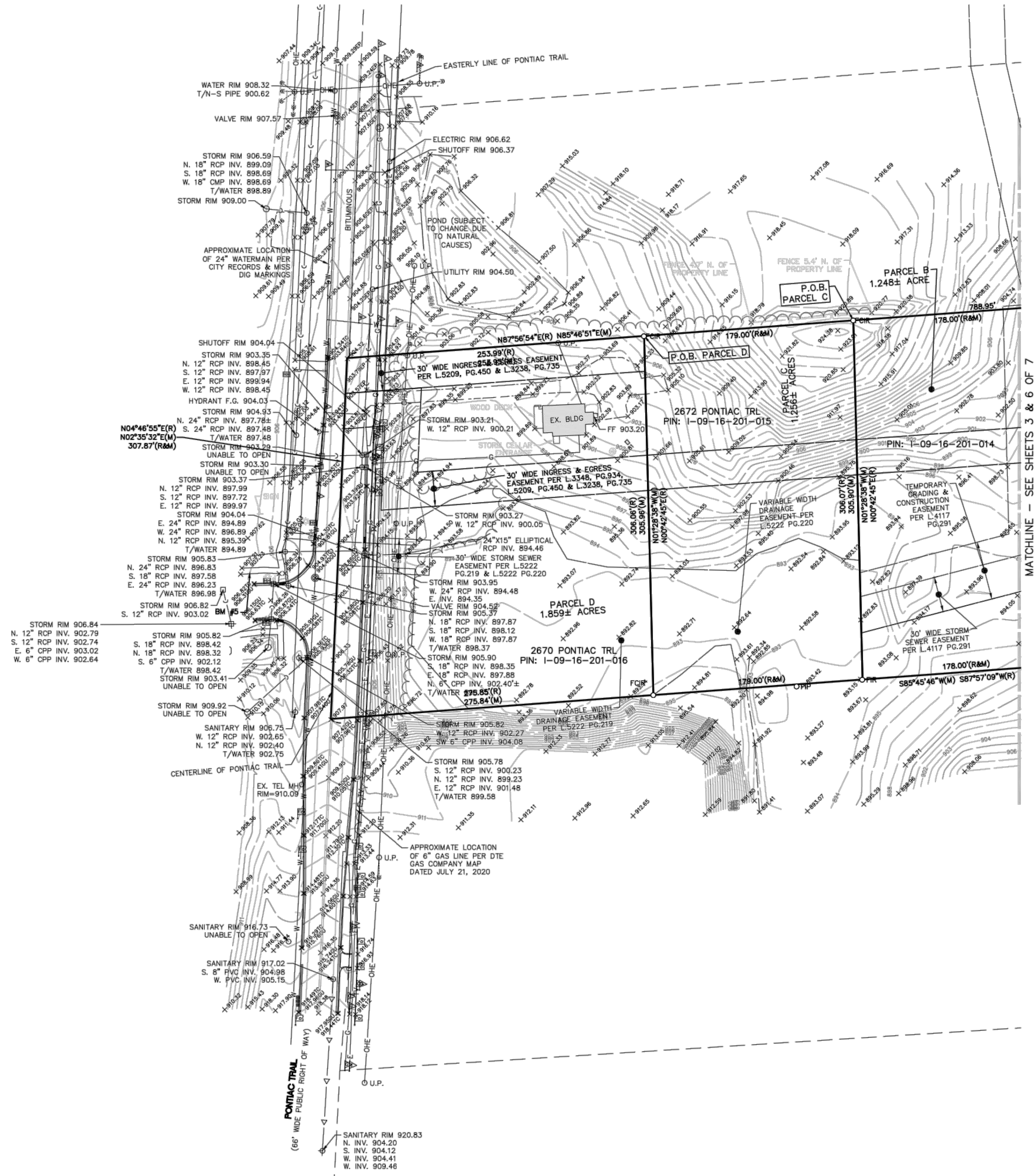
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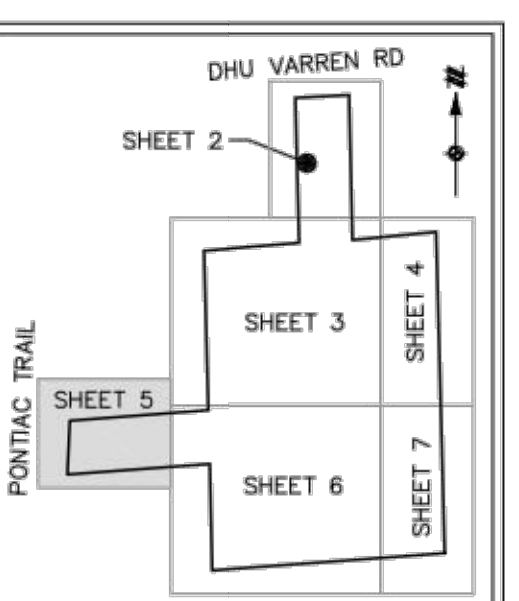
VICINITY MAP  
NOT TO SCALE

## LEGEND

	SECTION CORNER
	FOUND MONUMENT
	FOUND IRON PIPE
	FOUND IRON ROD
	FOUND CAPPED IRON ROD
	EXISTING MAILBOX
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	EXISTING LIMITS OF VEGETATION
	EXISTING CURB AND GUTTER
	EXISTING GROUND CONTOUR
	EXISTING BUILDING
	SCHEDULE BII EXCEPTION



MATCHLINE - SEE SHEETS 3 & 6 OF 7



KEY MAP  
NOT TO SCALE

SECTION 16  
TOWN 2 SOUTH, RANGE 6 EAST  
ANN ARBOR TOWNSHIP  
WASHTENAW COUNTY, MICHIGAN

CLIENT: ROBERTSON BROTHERS COMPANY  
ALTA/NSPS LAND TITLE SURVEY  
LOCATED IN

DATE: 07/21/2020

REVISIONS

07/27/2020	SURVEY EDITS
04/14/2021	ADDITIONAL TOPO
05/03/2021	REV. PER NEW TITLE
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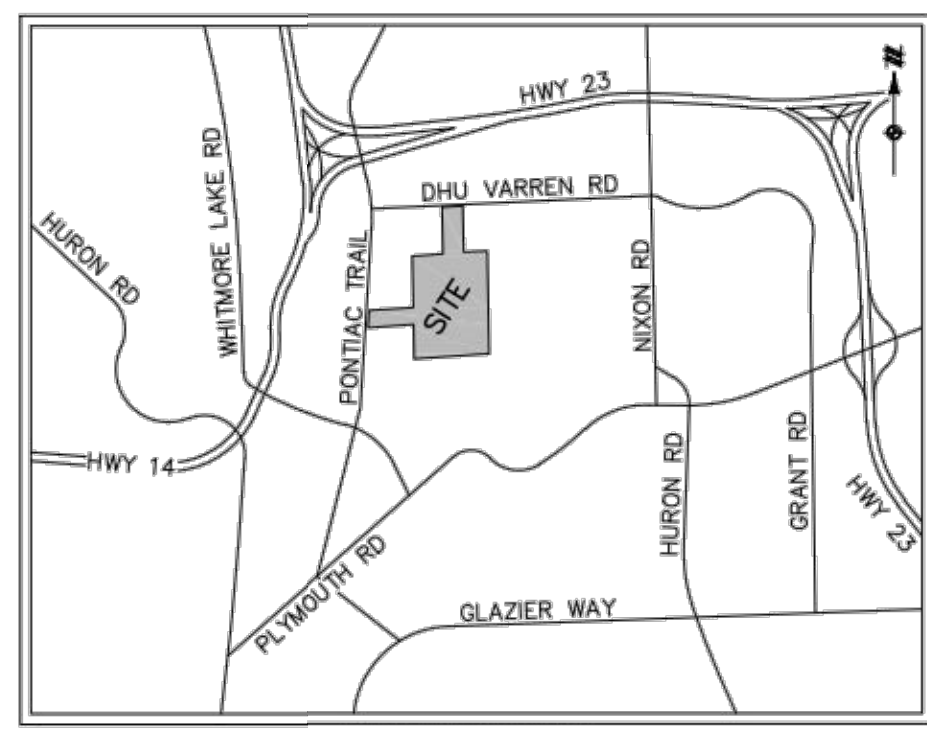
SCALE 0 25 50  
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DR. JR | CH. ME  
P.M. M. EMBREE  
BOOK NA  
JOB 18002264  
SHEET NO.

K:\GURNEY\TOP\18002264 - ANN ARBOR\PONTIAC TRAIL\18002264-AS-01.DWG 1/7/2021 8:27 AM JADE BIRDSON

CAD FILE: 18002264-AS-01.DWG

# ALTA/NSPS LAND TITLE SURVEY

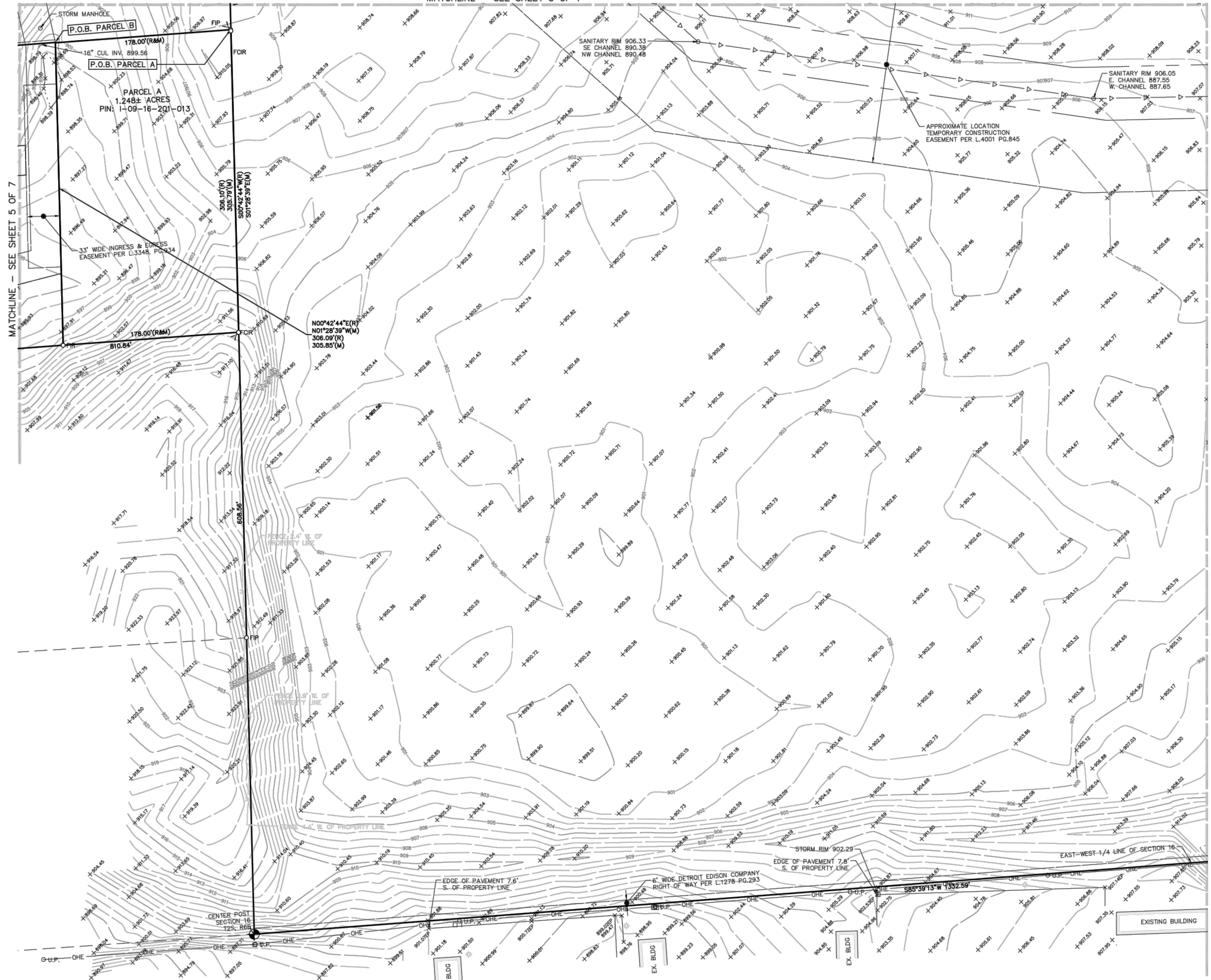
MATCHLINE - SEE SHEET 3 OF 7



VICINITY MAP  
NOT TO SCALE

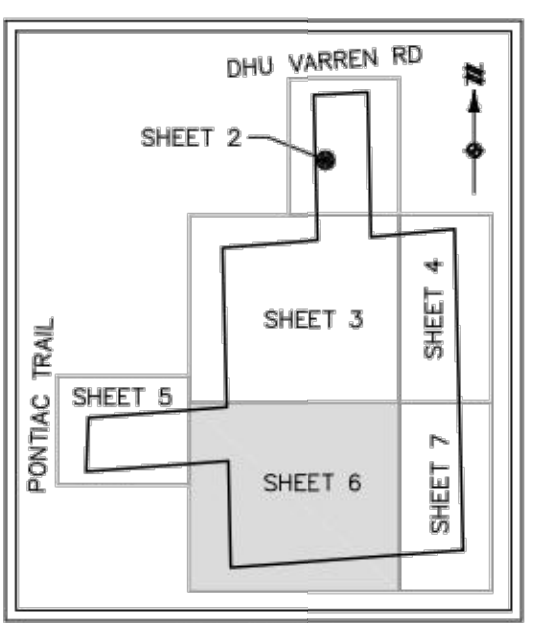
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	EXISTING SANITARY CLEANOUT
	EXISTING UTILITY HANDHOLE
	EXISTING MONITORING WELL
	UNDERGROUND CABLE MARKER
	UNDERGROUND ELECTRIC MARKER
	UNDERGROUND FIBER MARKER
	UNDERGROUND GAS MARKER
	UNDERGROUND TELEPHONE MARKER
	UNDERGROUND WATER MARKER
	EXISTING GROUND ELEVATION
	EXISTING CURB ELEVATION
	EXISTING GUTTER ELEVATION
	EXISTING PAVEMENT ELEVATION
	RECORD
	MEASURED
	PLACE OF COMMENCEMENT
	POINT OF BEGINNING
	BOUNDARY LINE
	BOUNDARY ADJACENT LINE
	EASEMENT LINE
	SECTION LINE
	OHE OVERHEAD UTILITY LINE
	TV APPROXIMATE UNDERGROUND FIBER LINE
	E APPROXIMATE UNDERGROUND ELECTRIC LINE
	G APPROXIMATE UNDERGROUND GAS LINE
	S UNDERGROUND STORM LINE
	W UNDERGROUND SANITARY LINE
	X APPROXIMATE UNDERGROUND WATER LINE
	EXISTING FENCE
	EXISTING EDGE OF WATER
	EXISTING CENTERLINE OF DITCH
	EXISTING LIMITS OF VEGETATION
	EXISTING CURB AND GUTTER
	EXISTING GROUND CONTOUR
	EXISTING BUILDING
	SCHEDULE BII EXCEPTION



MATCHLINE - SEE SHEET 5 OF 7

MATCHLINE - SEE SHEET 7 OF 7



KEY MAP  
NOT TO SCALE



**811**  
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THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR ITS REPRESENTATIVE. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.

NOTICE: CONSTRUCTION SITE SAFETY IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR. NEITHER THE OWNER NOR THE ENGINEER SHALL BE EXPECTED TO ASSUME ANY RESPONSIBILITY FOR THE SAFETY OF THE WORK OF ANY PERSONS ENGAGED IN THE WORK OF ANY NEARBY STRUCTURES, OR OF ANY OTHER PERSONS.

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SECTION 16  
TOWN 2 SOUTH, RANGE 6 EAST  
ANN ARBOR TOWNSHIP  
WASHTENAW COUNTY, MICHIGAN

CLIENT: ROBERTSON BROTHERS COMPANY  
ALTA/NSPS LAND TITLE SURVEY  
LOCATED IN

DATE: 07/21/2020

DATE	REVISIONS
07/21/2020	SURVEY EDITS
05/13/2021	ADDITIONAL TPO
05/13/2021	REV. PER NEW TITLE
05/13/2021	REV. PER NEW TITLE
05/13/2021	REV. PER NEW TITLE

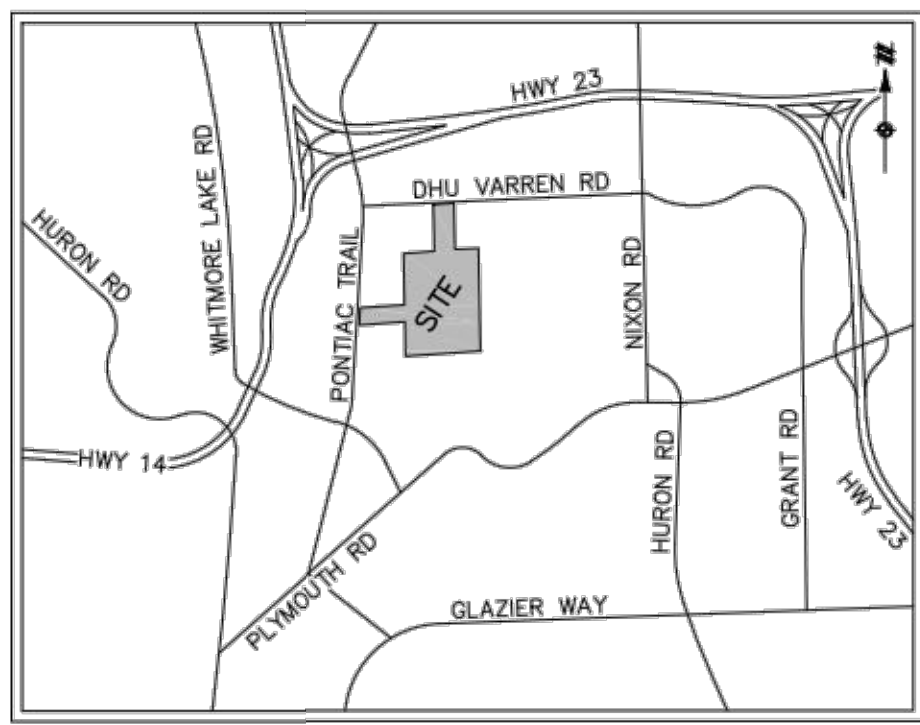
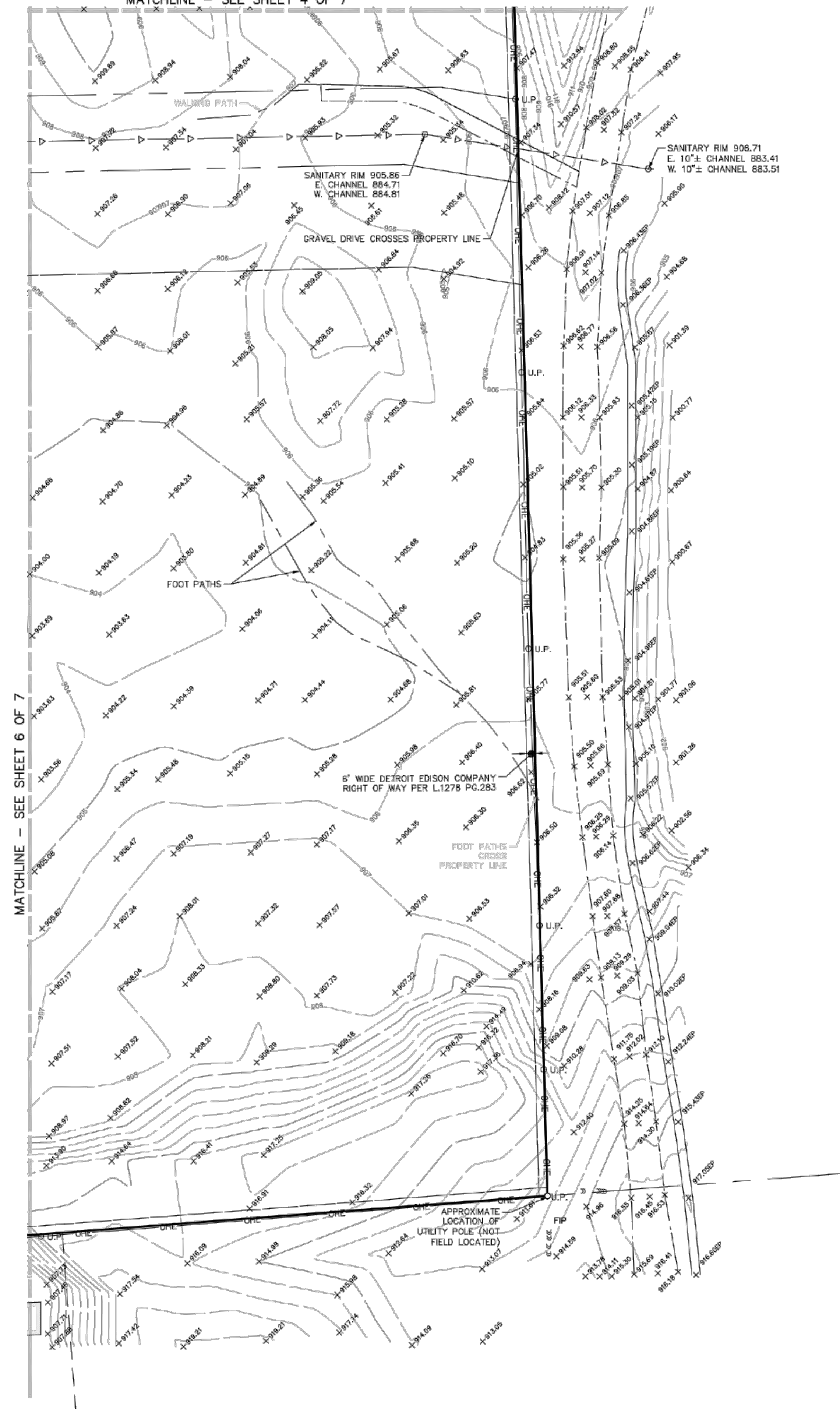
SCALE: 0 25 50  
1" = 50 FEET  
DR. JR | CH. ME  
P.M. M. EMBREE  
BOOK: NA  
JOB: 18002264  
SHEET NO.: 6 OF 7

L:\SURVEY\TITLES\18002264 - ANN ARBOR PONTIAC TRAIL\18002264-ALTA-CLING 6/7/2021 9:22 AM JULIE EMBREE

CAD FILE: 18002264-AS-01.DWG

# ALTA/NSPS LAND TITLE SURVEY

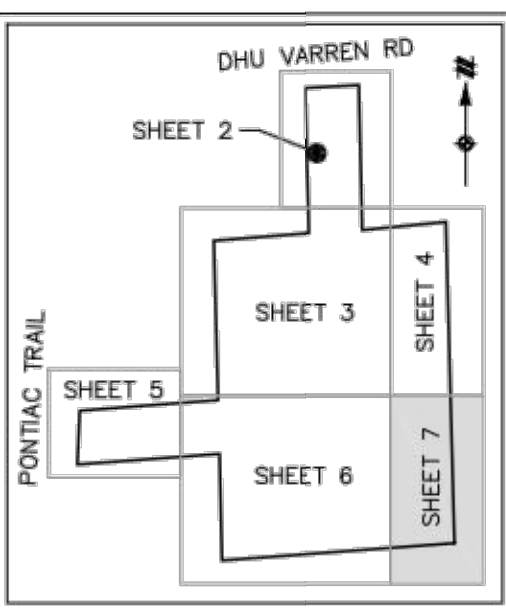
MATCHLINE - SEE SHEET 4 OF 7



VICINITY MAP  
NOT TO SCALE

## LEGEND

- |        |                                       |
|--------|---------------------------------------|
| ●      | SECTION CORNER                        |
| ○      | FOUND MONUMENT                        |
| ○      | FOUND IRON PIPE                       |
| ○      | FOUND IRON ROD                        |
| ○      | FOUND CAPPED IRON ROD                 |
| ○      | EXISTING MAILBOX                      |
| ○      | EXISTING SIGN                         |
| ○      | EXISTING TREE                         |
| ○      | EXISTING LIGHTPOLE                    |
| ○      | EXISTING WELL                         |
| ○      | EXISTING TELEPHONE RISER              |
| ○      | EXISTING GUY ANCHOR WITH WIRE         |
| ○      | EXISTING UTILITY POLE                 |
| ○      | EXISTING WATER BOX                    |
| ○      | EXISTING HYDRANT WITH SHUTOFF         |
| ○      | EXISTING GAS VALVE                    |
| ○      | EXISTING MANHOLE/CATCH BASIN          |
| ○      | EXISTING ELECTRIC TRANSFORMER         |
| ○      | EXISTING CULVERT                      |
| ○      | EXISTING SANITARY CLEANOUT            |
| ○      | EXISTING UTILITY HANDHOLE             |
| ○      | EXISTING MONITORING WELL              |
| ○      | UNDERGROUND CABLE MARKER              |
| ○      | UNDERGROUND ELECTRIC MARKER           |
| ○      | UNDERGROUND FIBER MARKER              |
| ○      | UNDERGROUND GAS MARKER                |
| ○      | UNDERGROUND TELEPHONE MARKER          |
| ○      | UNDERGROUND WATER MARKER              |
| ○      | EXISTING GROUND ELEVATION             |
| ○      | EXISTING CURB ELEVATION               |
| ○      | EXISTING GUTTER ELEVATION             |
| ○      | EXISTING PAVEMENT ELEVATION           |
| (R)    | RECORD                                |
| (M)    | MEASURED                              |
| P.O.C. | PLACE OF COMMENCEMENT                 |
| P.O.B. | POINT OF BEGINNING                    |
| ---    | BOUNDARY LINE                         |
| ---    | BOUNDARY ADJACENT LINE                |
| ---    | EASEMENT LINE                         |
| ---    | SECTION LINE                          |
| OHE    | OHE OVERHEAD UTILITY LINE             |
| TV     | APPROXIMATE UNDERGROUND FIBER LINE    |
| E      | APPROXIMATE UNDERGROUND ELECTRIC LINE |
| G      | APPROXIMATE UNDERGROUND GAS LINE      |
| S      | UNDERGROUND STORM LINE                |
| W      | UNDERGROUND SANITARY LINE             |
| X      | APPROXIMATE UNDERGROUND WATER LINE    |
| ---    | EXISTING FENCE                        |
| ---    | EXISTING EDGE OF WATER                |
| ---    | EXISTING CENTERLINE OF DITCH          |
| ---    | EXISTING LIMITS OF VEGETATION         |
| ---    | EXISTING CURB AND GUTTER              |
| ---    | EXISTING GROUND CONTOUR               |
| ▭      | EXISTING BUILDING                     |
| 10     | SCHEDULE BII EXCEPTION                |



KEY MAP  
NOT TO SCALE



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05/07/2021 REV. PER NEW TITLE  
05/19/2021 REV. TO ALTA  
06/03/2021 REV. PER NEW TITLE

REVISIONS

SCALE: 0 25 50  
1" = 50 FEET

DR. JR | CH. ME  
P.M. M. EMBREE  
BOOK NA  
JOB 18002264  
SHEET NO. 7 OF 7