ISABELLA COUNTY Application for Special Use Permit

Appacanti	
Name Amy Rodriguez, as agent for Verizo	
Address 1961 Northpoint Blvd., Suite 1	
Phone 248-217-0989	Fax 423-843-9509
Property Owner: (if different from applicant)	
_{Name} Lary Sheffert	
Address 3114 Hill Top Lane, Mt. Pleas	ant, MI 48858
Phone 989-205-0094	_{Fax} n/a
Property Location:	
Township Gilmore See	ction O27 Zoning District C-1
Address 7866 North Winn Road, Farwe	ell, MI 48622
Tax I.D. Number 08-027-10-001-00	
Description of Project and Proposed Use: Propose	ed telecommunications facility
with a 199' monopole and associat	
fenced 100' x 100' compoud	
Amy Rodriguez Digitally signed by Amy Rodriguez Date: 2020.01.08 05:52:45 -05'00'	1/8/2020
Signature of Applicant	Date
Optional: I hereby grant permission for members of the Is Administrator to enter the above described property for the application.	
Signature of Applicant	Date
NOTE: All information received by this department is subject to the Fre copies of said information. This includes, but not limited to, all copyrigh	edom of Information Act. Under this Act, persons are allowed to request ted drawings/blueprints.
	Jse Only
0	
File No Fee \$175.00 Check	and the same of th
Date Application Received 1-22-2020 App	olication Received By (S)
Legal Description Attached? YES NO	Site Plan Attached? YES NO
Applicable Ordinance Section(s) 12.05†	4

!SABELLA COUNTY INSTRUCTIONS FOR SPECIAL LAND USE APPLICANTS

(SECOND PAGE OF APPLICATION)

- 1. The proposed location is in C-1 Zoning District.
- 2 The facility will not be detrimental to adjacent properties- The location is approx. 375' from right of way and approx. 400' from the nearest property line.
- 3. The facility is proposed in an area that is mostly farmland and agriculture. The proposed use and structure are not anticipated to be outside the parameters outlined in the Ordinance for such facilities.
- 4. The proposed wireless communication tower and associated facilities are not anticipated to generate off-site impacts as described under this item.
- 5. N/A
- 6. N/A

110917



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171.00 6 \$25.00 5 .0110-9-0217
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- (SABLET, COUNTY
- (SABLET, COU

PERSONAL REPRESENTATIVE'S DEED

The Grantor, Madelyn D. Arnold, Personal Representative of the Estate of Elsie M. VanBuskirk, Deceased, of 7950 North Winn Road, Farwell, Mt 48622.

grants, bargains, sells and conveys to Lary Sheffert and Sonya Sheffert, husband and wife, of 3393 Hill Top Lanc, Mt. Pleasant, Mt 48858.

the following described premises squated in the Township of Gilmore, County of Isabella, and State of Michigan:

The North Half (N %) of the Northwest Quarter (NW 1/4) of Section 27, 116N, RSW, Cilmore Township, Isahella County, Michigan, except the following 10 parcels:

Paired 1: Commencing 963.09 feet South of the North 1/4 corner of Section 27, T16N, R5W, thence South 208.71 feet, S 89°50' W, 208.71 feet, North 208.71 feet, N 89°50' E, 208.71 feet to the point of beginning.

Parcel 2: Commencing at the Northwest corner of the North Half (N ½) of the Northwest Quarter (NW 1/4) of Section 27, T16N, R5W, for the point of beginning, thence South 208 feet, thence East 208 feet; thence North 208 feet; thence West to the point of beginning, Gilmore Township, Isabella County, Michigan.

Parcel 3: Part of the Northwest Quarter (NW 1/4) of Section 27, Gilmore Township,T16N, R5W, Isabella County, Michigan, described as beginning at a point on the North line of Section 27 which is West 865.34 feet from the North 1/4 corner of said Section 27; thence West 208.71 feet, thence South 208.71 feet; thence North 208.71 feet; to the point of beginning.

Parcel 4: Part of the North Half (N ½) of the Northwest Quarter (NW 1/4) of Section 27, T16N, R5W, described as beginning at the North 1/4 corner of Section 27; thence South 450 feet along the N & S 1/4 line; thence N 89°55'30" W, 660.00 feet; thence North 450 feet; thence S 89°55'30" E, 660.00 feet along the North Section line to the point of beginning, except the West 124 feet of the North 208 71 feet of above description.

Parcel 5: Part of the Northwest Quarter (NW 1/4) of the Northwest Quarter (NW 1/4), Section 27, F16N, R5W, Gilmore Township, Isabella County, Michigan, described as: Beginning S 89°59'10" E, along the North Section line, 438.71 feet from the Northwest corner of said Section 27, thence communing S 89°59'10" E, along said North Section line, 187.42 feet; thence S 00°16'28" E, parallel to the West Section line, 417.42 feet; thence N 89°59'10" W, 417.42 feet; thence N 00°16'28" W, 228.02 feet; thence S 89°59'10" E, 230.00 feet; thence N 00°16'28" W, 189.40 feet, back to the place of beginning.

Parcel 6. Part of the Northwest Quarter (NW 1/4) of the Northwest Quarter (NW 1/4), Section 27, T16N, R5W, Gilmore Township, Isabella County, Michigan, described as: Beginning S 00°16′28° E, along the West Section line 208.71 feet from the Northwest corner of said Section 27; thence continuing S 00°16′28° E, along said West Section line, 208.71 feet; thence S 89°59′10° E, parallel to the North Section line, 208.71 feet; thence N 00°16′28° W, 208.71 feet; thence N 89°59′10° W, 208.71 feet back to the place of beginning.

Parcel 7: Part of the North Half (N ½) of the Northwest Quarter (NW 1/4) of Section 27, T16N, R5W, described as beginning 536 feet West of the North 1/4 corner of said Section; thence South 208.71 feet, West 329.34 feet, North 208.71 feet, thence Fast to the point of beginning.

LIBS 1545 PG 0405

1

Parcel 8: Part of the North Half (N ½) of the Northwest Quarter (NW 1/4) of Section 27, T16N, R5W, Gilmore Township, Isabella County, Michigan, described as: Beginning at a point on the N & S 1/4 line which is South 450.0 feet from the North 1/4 corner of Section 27, thence South 290.4 feet; thence N 89°55'30" W, 150.0 feet; thence North 290.4 feet; thence S 89°55'30" E, 150.0 feet to the point of beginning.

Parcel 9: Part of the North Half (N ½) of the Northwest Quarter (NW 1/4) of Section 27, T16N, R5W, Gilmore Township, Isabella County, Michigan, described as: Beginning at a point on the N & S 1/4 line which is South, 1171.80 feet from the North 1/4 corner of Section 27; thence South 150.0 feet; thence S 89°50′ W, 290.40 feet along the North E & W 1/8 line; thence North 150.0 feet; thence N 89°50′ E, 290.40 feet to the point of beginning.

Parcel 10: Part of the Northwest Quarter (NW 1/4) of Section 27, T16N, R5W, Gilmore Township, Isabella County, Michigan, described as: Beginning at a point on the North line of Section 27 which is East 208.71 feet from the NW corner of said Section; thence East 230.00 feet; thence 8 0°17′ E, 189.4 feet; thence West 230.00 feet; thence N 0°17′ W, 189.4 feet to the point of beginning.

Together with a 1979 14 x 70 Comodore Mobile Home, except the content therein,

for the sum of One Hundred Ten Thousand and P0/100 (\$110,000.00) Dollars,

Subject to easements and building and use restrictions of record, and further subject to restrictions, reservations, rightwof-way and mineral interests of record, if any, and further subject to the lien of any taxes which are not yet due and payable.

This conveyance is subject to a reservation of a life estate ("Life Estate") in favor of and grant to Leroy V. Dangler, a single man, ("Life Tenant") in the following portion of the premises ("Homestead"):

A one (1) acre parcel, together with use of a 1979 14 x 70 Comodore Mobile Home, located in the Southwest corner of the North Half (N ½) of the Northwest Quarter (NW 1/4) of Section 27, T16N, R5W, Gilmore Township, Isabella County, Michigan, on the following terms:

- 1. Life Tenant shall be responsible for the costs of any and all repairs or improvements that he may desire to make to any of the buildings on the Homestead, however, Grantees shall not be required to make any repairs or improvements to the buildings on the Homestead.
- Life Tenant shall be responsible for the costs of any utilities or other services to the Homestead during the Life Estate.
- The Life Estate shall be for the natural life of the Life Tenant, subject to an automatic termination at such time as the Life Tenant shall fail to reside on and/or occupy the Homestead for a period in excess of 180 days.
- 4. Life Tenant may not assign this Life Estate or permit anyone else to use, occupy or possess the Homestead or any portion thereof.
- 5 Life Tenant shall obtain and keep in force casualty and public liability insurance upon the premises listing the Life Tenant and Grantees as insured parties to the extent of their interest in the premises. The casualty insurance shall be in an amount equal to the cost of replacement of the 1979 Comodore Mobile Home on the premises.
- 6. Notwithstanding the Life Tenant's use and occupancy of the Homestead, Grantees shall be allowed to construct, maintain, possess and have access to a pole barn on the Homestead premises.
- Life Tenant shall not be obligated to pay Grantees any rent or other charges for occupancy of the Homestead during the term of the Life Estate

UBR 1545PG0406

A) This property may be located within the vicinity of farmland or farm operation. Generally accepted agricultural and management practices which may generate noise, dust, odors, and other associated conditions may be used and me protected by the Michigan Right to Farm Act

B) The Grantor grants to the Grantees the right to make all permissible division(s) under Section 108 of the Land Division Act No. 288 of the Public Acts of 1967.

Dated this 14th day January, 2011

Grantor:

TY adelyn D W. Madelyn D. Arnold, Personal

Representative of the Estate of Elsie M. VanBuskirk, Deceased

STATE OF MICHIGAN) + ss COUNTY OF ISABELLA)

The foregoing instrument was acknowledged before me in Isabella County this 14th day of January, 2011, by Madelyn D. Arnold, Personal Representative of the Estate of Elsie M. VanBuskirk, Deceased.

EJA Vege - Ernes Notary Publi

My Commission Expires: 7-/0 -/2



Notice Criteria Tool

Notice Criteria Tool - Desk Reference Guide V_2014.2.0

The requirements for filing with the Federal Aviation Administration for proposed structures vary based on a number of factors: height, proximity to an airport, location, and frequencies emitted from the structure, etc. For more details, please reference CFR Title 14 Part 77.9.

You must file with the FAA at least 45 days prior to construction if:

- your structure will exceed 200ft above ground level
- your structure will be in proximity to an airport and will exceed the slope ratio
- your structure involves construction of a traverseway (i.e. highway, railroad, waterway etc...) and once adjusted upward with the appropriate vertical distance would exceed a standard of 77.9(a) or (b)
- your structure will emit frequencies, and does not meet the conditions of the FAA Co-location Policy
- your structure will be in an instrument approach area and might exceed part 77 Subpart C
- your proposed structure will be in proximity to a navigation facility and may impact the assurance of navigation signal reception
- your structure will be on an airport or heliport
- filing has been requested by the FAA

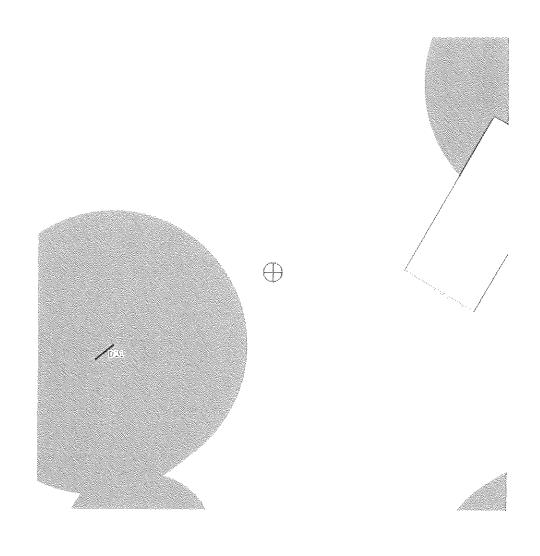
If you require additional information regarding the filing requirements for your structure, please identify and contact the appropriate FAA representative using the Air Traffic Areas of Responsibility map for Off Airport construction, or contact the FAA Airports Region / District Office for On Airport construction.

The tool below will assist in applying Part 77 Notice Criteria.

Latitude:	43 Deg 45 M 11.85 S N
Longitude:	84 Deg 54 M 24.9 S W
Horizontal Datum:	NAD83
Site Elevation (SE):	(nearest foot)
Structure Height :	(nearest foot)
Traverseway:	No Traverseway (Additional height is added to certain structures under 77.9(c)) User can increase the default height adjustment for Traverseway, Private Roadway and Waterway
Is structure on airport:	No Yes

Results

You do not exceed Notice Criteria.



TOWAIR Determination Results

A routine check of the coordinates, heights, and structure type you provided indicates that this structure does not require registration.

*** NOTICE ***

TOWAIR's findings are not definitive or binding, and we cannot guarantee that the data in TOWAIR are fully current and accurate. In some instances, TOWAIR may yield results that differ from application of the criteria set out in 47 C.F.R. Section 17.7 and 14 C.F.R. Section 77.13. A positive finding by TOWAIR recommending notification should be given considerable weight. On the other hand, a finding by TOWAIR recommending either for or against notification is not conclusive. It is the responsibility of each ASR participant to exercise due diligence to determine if it must coordinate its structure with the FAA. TOWAIR is only one tool designed to assist ASR participants in exercising this due diligence, and further investigation may be necessary to determine if FAA coordination is appropriate.

DETERMINATION Results

PASS SLOPE(100:1): NO FAA REQ-RWY MORE THAN 10499 MTRS & 7459.67 MTRS (7.45969 KM) AWAY

Туре	C/R	Latitude	Longitude	Name	Address	Lowest Elevation (m)	Runway Length (m)
AIRP	С	43-43-12.00N	085-00-10.00W	OJIBWA AIRPARK	ISABELLA WEIDMAN, MI	289.6	1097.3

Your Specifications

NAD83 Coordinates

43-45-11.5 north
084-54-24.9 west

Measurements (Meters)

Overall Structure Height (AGL)	60.7
Support Structure Height (AGL)	59.4
Site Elevation (AMSL)	282.9

Structure Type

MTOWER - Monopole

Tower Construction Notifications

Notify Tribes and Historic Preservation Officers of your plans to build a tower.

CLOSE WINDOW

SITE NAME	SITE ADDRESS	· CITY	COUNTY	STATE	ZIP	Tower Height/RAD	Type of Tower
Bus-27 & Pickard	1104 North Washington Street	Mt. Pleasant/isabella County	(sabella	MI	48858	140	Monopole
CMU	5420 S. Mission Road	Mt. Pleasant	Isabella	MI	48858	223	Guyed
CMU Campus	1999 E. Campus Drive	Mt. Pleasant	Isabelia	MI	48893	120	Monopole
CMU South	6775 East Millbrook	Shepherd	Isabelia	MI	48883	150	Monopole
CMU South Shepherd	6775 East Millbrook	Shepherd	Isabella	MI	48883	177	Lattice
Coleman	5386 North County Line Road	Coleman	Midland	Mi	48618	?	Guyed
Farwell	11475 Willow Road	Farwell	Clare	MI	48622	220	Manapole
Isabella	3010 S Leaton Road	Mt. Pleasant	Isabella	MI	48858	?	Water Tower
Lake Isabella	3165 Old State Road	Weidman	Isabella	M	48893	250	Lattice
M20 Coldwater	2589 Coldwater Road	Mt. Pleasant	· isabella	MI	48858	300	Monopole
Mt. Pleasant / CMU Campus	2385 W Campus	Mt, Pleasant	Isabella	Mi	48859	120	Guyed
Mt. Pleasant North	708 W Pickard Street	Mt. Pleasant	Isabelia	MI	48858	155	Lattice
Mt. Pleasant West	2560 S. Nottawa Raod	Mt. Pleasant	Isabella	MI	48858	191	Lattice
Oil City	2909 W Isabella Road	Midland	Midland	MI	48640	300	Lattice
Rosebush	4401 East Denver	Rosebush	Isabella	MI	48878	297	Guyed
Shepherd	8685 E. Pleasant Valley	Shepherd	Isabella	M!	48883	220	Lattice
US-27 & M-20	1635 Gover Parkway	Mt. Pleasant	isabella	MI	48858	180	Monopole
Weidman	3321 North Gilmore	Weidman	isabelia	Mi	48893	230	Guyed
West Mission	1999 East Campus Drive, Suite A	Mt. Pleasant	Isabella	MI	48859	120	Manapole
Clare South	10651 N Isabella Road	Clare	Isabelia	MI	48617	183	Guyed
Laomis	11206 N. Loomis	Rosebush	Isabella	MI	48878	248	Lattice
Beal City	4302 E. Beal City Road	Mt. Pleasant	Isabella	MI	48858	195	Monopole
Littlefield Lake	5225 W. Stevenson Road	Lake	Isabella	MI	48632	195	Monopole
W. Little Turtle Road	925 N. School Road	Weidman	Isabella	MI	48893	150	Monopole
Peas Lake	400 E Millbrook Road	Mt. Pleasant	Isabella	MI	48858	195	Monopole

Federal Airways & Airspace

Summary Report: New Construction

Airspace User: Barbara Evans

File: 6238

Location: Farwell, MI

Latitude: 43°-45'-11.5" Longitude: 84°-54'-24.9"

SITE ELEVATION AMSL.....927.5 ft.
STRUCTURE HEIGHT......199 ft.
OVERALL HEIGHT AMSL.....1126 ft.

NOTICE CRITERIA

FAR 77.9(a): NNR (DNE 200 ft AGL)
FAR 77.9(b): NNR (DNE Notice Slope)

FAR 77.9(c): NNR (Not a Traverse Way)

FAR 77.9: NNR FAR 77.9 IFR Straight-In Notice Criteria for D11 NNR FAR 77.9 IFR Straight-In Notice Criteria for D15

FAR 77.9(d): NNR (Off Airport Construction)

NR = Notice Required

NNR = Notice Not Required

PNR = Possible Notice Required (depends upon actual IFR procedure)

For new construction review Air Navigation Facilities at bottom

of this report.

Notice to the FAA is not required at the analyzed location and height for slope, height or Straight-In procedures. Please review the 'Air Navigation' section for notice requirements for offset IFR procedures and EMI.

OBSTRUCTION STANDARDS

FAR 77.17(a)(1): DNE 499 ft AGL

FAR 77.17(a)(2): DNE - Airport Surface

FAR 77.19(a): DNE - Horizontal Surface

FAR 77.19(b): DNE - Conical Surface

FAR 77.19(c): DNE - Primary Surface

FAR 77.19(d): DNE - Approach Surface

FAR 77.19(e): DNE - Transitional Surface

VFR TRAFFIC PATTERN AIRSPACE FOR: D11: OJIBWA AIRPARK

Type: A RD: 26393.83 RE: 950

FAR 77.17(a)(1):

DNE

FAR 77.17(a)(2):

DNE - Height No Greater Than 200 feet AGL.

VFR Horizontal Surface: DNE VFR Conical Surface: DNE VFR Approach Slope: DNE

VFR Transitional Slope: DNE

VFR TRAFFIC PATTERN AIRSPACE FOR: D15: LAKE ISABELLA - CAL BREWER M

Type: A RD: 43959.17 RE: 886 FAR 77.17(a)(1): DNE

FAR 77.17(a)(2): Does Not Apply.

VFR Horizontal Surface: DNE VFR Conical Surface: DNE VFR Approach Slope: DNE VFR Transitional Slope: DNE

TERPS DEPARTURE PROCEDURE (FAA Order 8260.3, Volume 4) FAR 77.17(a)(3) Departure Surface Criteria (40:1)

DNE Departure Surface

MINIMUM OBSTACLE CLEARANCE ALTITUDE (MOCA)

FAR 77.17(a)(4) MOCA Altitude Enroute Criteria The Maximum Height Permitted is 4000 ft AMSL

PRIVATE LANDING FACILITIES

FACIL	BEARING	RANGE	DELTA ARP FAA
IDENT TYP NAME	To FACIL	IN NM	ELEVATION IFR
4MI7 AIR WITBECK AERODRONE	45.74	5.17	+236
No Impact to VFR Transitional Surface.			
Below surface height of 417 ft above ARI	Ρ.		

AIR NAVIGATION ELECTRONIC FACILITIES

APCH	FAC		ST			DIST	DELTA		GRND
BEAR	IDNT	TYPE	ΑТ	FREQ	VECTOR	(ft)	ELEVA ST	LOCATION	ANGLE
	MOP	VOR/DME	R	110.6	136.7	65370	+374 MI	MOUNT PLEASANT	.33
	MBS	RADAR	ON	2805.	111.65	235720	+370 MT	MRS THTERNATIONAL	aa

CFR Title 47, §1.30000-§1.30004

AM STUDY NOT REQUIRED: Structure is not near a FCC licensed AM station. Movement Method Proof as specified in §73.151(c) is not required. Please review 'AM Station Report' for details.

No AM Stations were located within 3.0 km.

Airspace® Summary Version 17.1.429

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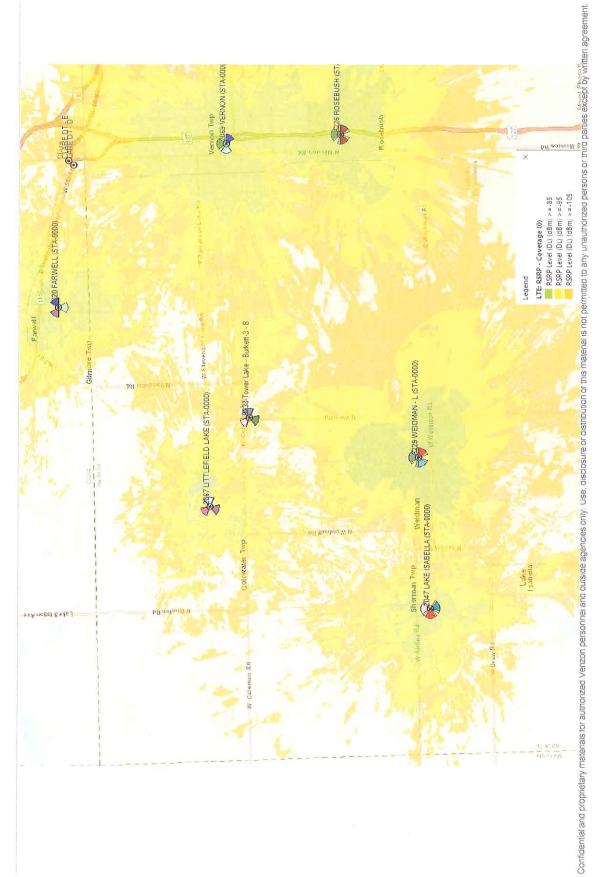
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6238- TOWER LAKE



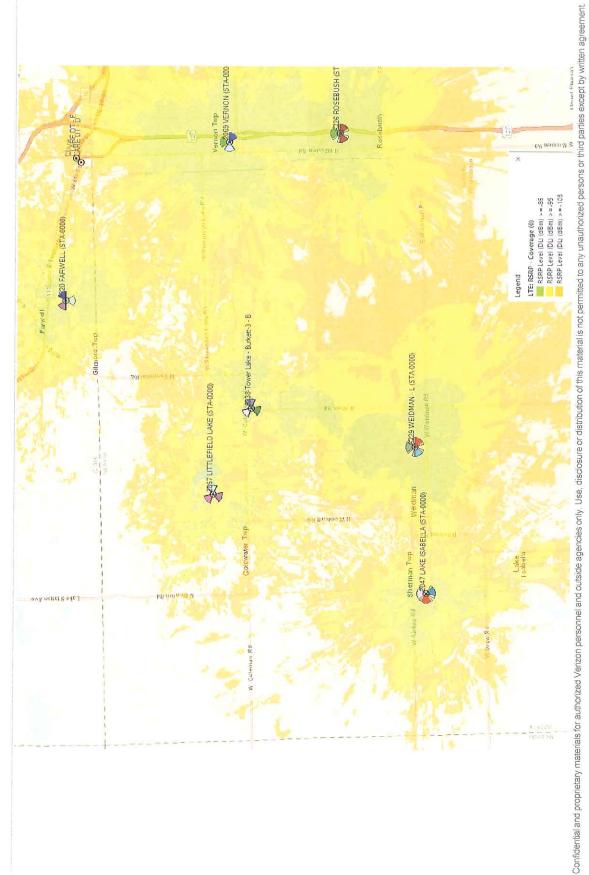
6238- TOWER LAKE - Current coverage plots



2



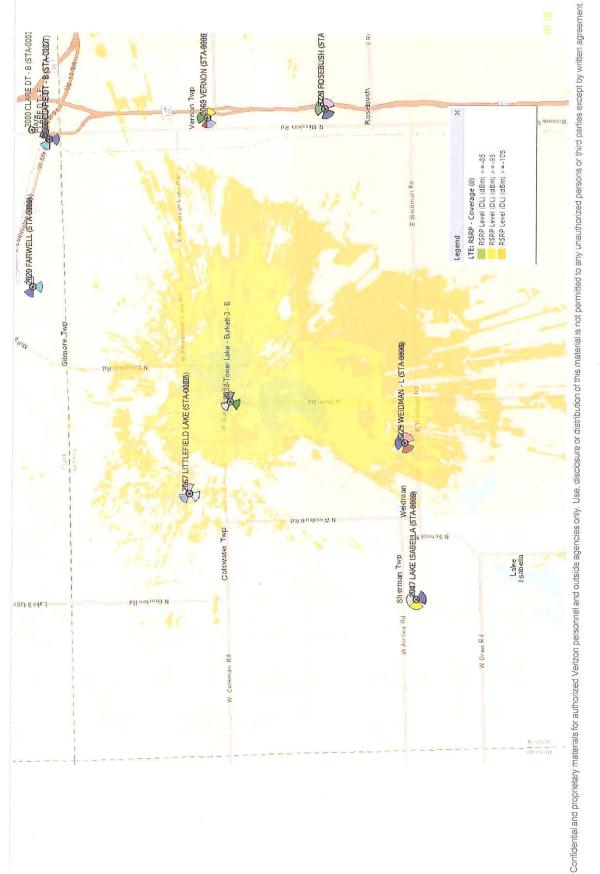
6238- TOWER LAKE - Future coverage plot





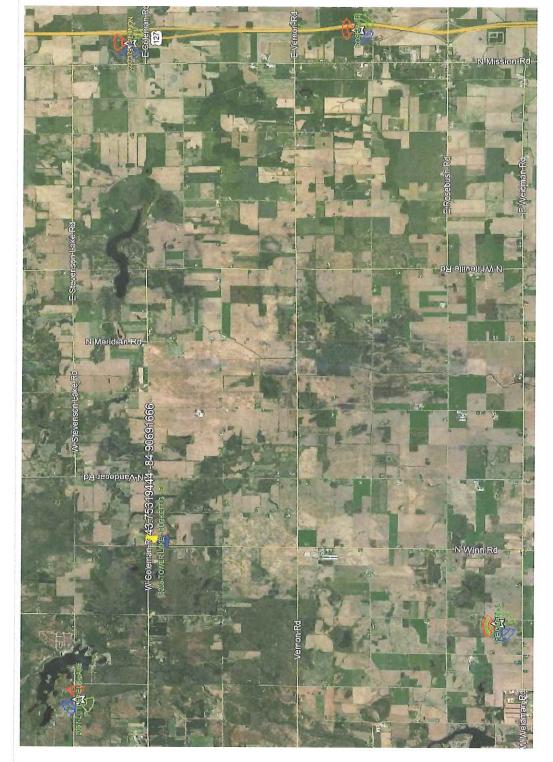
6238- TOWER LAKE

New Tower Lake site Contribution-Future Coverage





6238- TOWER LAKE - Google Earth



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SITE #6238 - "TOWER LAKE"

7866 NORTH WINN ROAD **FARWELL, MICHIGAN 48622**

APC TOWERS SITE #MI-1721 "TOWER LAKE"

THE PROJECT CONSISTS OF THE INSTALLATION AND OPERATION OF ANTENNAS AND ASSOCIATED EQUIPMENT CABINET(S) FOR VERIZON WIRELESS TELECOMMUNICATIONS NETWORK. A TOTAL OF SIX ANTENNAS, ONE RAYCAP AND SIX REMOTE RADIO HEADS MOUNTED ON A PROPOSED MONOPOLE (BY OTHERS) AND CABINET(S) ARE PROPOSED AT THIS SITE.

PROJECT DESCRIPTION

APPLICANT/LESSEE

30

10

MIDLAND

18

COLEMAN

BEAVERTON

CELLCO PARTNERSHIP dba VERIZON WIRELESS dbo Verizun Winceless 24242 NORTHWESTERN HIGHWAY SOUTHFIELD, MICHIGAN 48075 MPLEMENTATION ENGINEER: JOHN McCORMICK PHONE: (248) 915–3550

SITE ACQUISITION CONSULTANT

CITY/STATE/ZIP: HIXSON, TENNESSEE 37343
WIRELESS SITE COORDINATOR: AMY RODRIGUEZ
PHONE: (248) 217-0989

TELECAD WIRELESS 1961 NORTHPOINT BLVD, SUITE 130

PROPERTY INFORMATION

LARRY SHEFFERT AND SONYA SHEFFERT 3114 HILLTOP LANE MOUNT PLEASANT, MICHIGAN 48858 OWNER: ADDRESS:

CONTACT: PHONE:

PRESENT OCCUPANCY TYPE:

PROPOSED OCCUPANCY TYPE: TELECOMMUNICATIONS FACILITY

CURRENT ZONING: AG-3 (GENERAL AGRICULTURE)

ZONING APPLICATION #: N/A

HANDICAP REQUIREMENTS: FACILITY IS UNMANNED AND NOT FOR

PROJECT SUMMARY

ALL WORK AND MATERIALS SHALL BE PERFORMED AND INSTALLED IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE FOLLOWING CODES AS ADDITED BY THE LOCAL GOVERNING AUTHORITIES. NOTHING IN THESE PLANS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THE LATEST EDITIONS OF THE FOLLOWING CODES.

UNIFORM BUILDING CODE
BUILDING OFFICIALS AND CODE
ADMINISTRATORS (BOCA)
UNIFORM MECHANICAL CODE
INTERNATIONAL BUILDING CODE
- MICHIGAN ADDITION - (IBC)

5. ANSI/EIA-222-F LIFE SAFETY CODE NFPA-101 6. UNIFORM PLUMBING CODE 7. NATIONAL ELECTRIC CODE 8. LOCAL BUILDING CODE 9. CITY/COUNTY ORDINANCES

CODE COMPLIANCE

SURVEYOR:

MIDWESTERN CONSULTING, L.L.C.
3815 PLAZA DRIVE
ANN ARBOR, MICHIGAN 48108
PATRICK L. HASTINGS, P.S.
(734) 995-0200 FAX: (734) 995-0599

CIVIL ENGINEER:

MIDWESTERN CONSULTING, L.L.C. 3815 PLAZA DRIVE ANN ARBOR, MICHIGAN 48108 SCOTT G. FISHER, P.E. (734) 995-0200 FAX: (734) 995-0599

STRUCTURAL ENGINEER:

(TOWER MANUFACTURER TO BE DETERMINED DURING TOWER DEVELOPER BID PROCESS)

ELECTRICAL ENGINEER:

UTILITY CONSULTANT:

GEOTECHNICAL/SOILS ENGINEERING:

G2 CONSULTING GROUP 1866 WOODSLEE ST. TROY, MICHIGAN 48063 AMY L. SCHNEIDER, P.E. (248) 680-0400

PROJECT TEAM

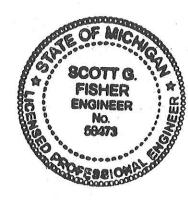
	HEET INDEX	ISSUED FOR:	DATE:
E3	MISCELLANEOUS DETAILS		12/18/19
E2	EQUIPMENT GROUNDING PLAN AND N	OTES	12/18/19
E1	POWER, TELCO & GROUNDING LAYOU	Т	12/18/19
D1	SITE SIGNAGE DETAILS	12/18/19	
C8	ANTENNA/FRAME DETAILS	12/18/19	
C7	POLE ELEVATION & ANTENNA/CABLE	12/18/19	
C6	EQUIPMENT ELEVATION VIEWS	12/18/19	
C5	FOUNDATION DETAILS AND NOTES	12/18/19	
C4	EQUIPMENT CABINET LAYOUT		12/18/19
C3	EQUIPMENT CABINET DETAILS		12/18/19
C2	SITE PLAN DETAIL		12/18/19
C1	SITE SURVEY, GENERAL INFORMATION		12/18/19
T2	GENERAL NOTES AND MATERIAL LIST		12/18/19
T1	TITLE SHEET	12/18/19	
SHEET	DESCRIPTION	REV. DATE	

DO NOT SCALE DRAWINGS

DRAWING SCALES SHOWN ARE INTENDED FOR $24"\times36"$ DRAWINGS ONLY. ANY OTHER SIZE DRAWING WILL NOT SHOW A CORRECT SCALE.

CONTRACTOR SHALL VERIFY ALL PLANS AND EXISTING DIMENSIONS AND CONDITIONS ON THE JOB SITE AND SHALL IMMEDIATELY NOTIFY THE CIVIL ENGINEERS IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR SAME.

GENERAL CONTRACTOR NOTES



JOB No. 05268-6 REVISIONS: 1. UPDATE COMPOUND LAYOUT	238 REV. DATE 12/18/19	DATE: 7/28/17 SHEET 1 OF 14 CADD: JBB ENG: SGF PM: SGF TECH: CDS\05268_623811	T1
Land	3815 Plaza Dr (734) 995-0200 • Development •	FB: V E S T E R ve Ann Arbor, Michigan zi www.midwesternconsultit Land Survey - Institutional ions - Transportation - Lan	B10B ng.com I • Municipal
RELEASED FOR:	DATE		

MARION

BARRYTON

10

WEST BATTLE ROAD

DIRECTIONS FROM VERIZON WIRELESS REGIONAL OFFICE IN SOUTHFIELD:

DRIVING DIRECTIONS

Start out going Northwest on Northwestern Highway toward Lee Baker Drive. Turn slight left to take the M-10 North ramp. Merge onto M-10 North/ John C Lodge Freeway. Merge onto I-696 West/ Walter P Reuther Freeway via exit 18C on the left toward Lansing. Keep left toward Lansing onto I-96 West. Stay straight to go anto I-96 West. Merge anto US-127 North via EXIT 1068 toward Downtown Lansing. Take the exit loward Rosebush. Turn left anto East Rosebush Road. Turn right onto North Mission Rd. Turn left onto East Vernan Road. Turn right onto North Winn Road. Flam Road. Star Parket Rose North Winn Road, Farwell, Michigan 48622.

VICINITY MAP

FARWELL

127

SHEPHERD

MT. PLEASANT

GENERAL NOTES:

- All side work construction shall be in accordance with the current standards and specifications of the Township of Gilmore, where applicable.
- The proposed equipment cabinet is to be a computerized, unmanned, elephone exchange structure. No water service, sanitary facilities or gas service is needed. Telephone and electrical services will be from an existing
- 3. The proposed equipment cabinet is to have security systems monitored 24 hours per day. The cabinet will also be constructed with bullet resistant
- 4. There are no lights proposed for this project.
- 5. There are no signs proposed for this project except for Emergency contact information purposes and FCC "call" sign placed on equipment cabinet door.
- 6. The cellular antenna and equipment cabinet will be approved by the Federal Communications Commission (FCC) and will not impact any frequency sensitive devices whatsoever. Buyer warrants no adverse radio interference
- There are no toxic materials used by Lessee on the site. Lessee has no need for outdoor storage or garbage disposal and pick-up.
- 8. Maintenance personnel using van type service vehicles enter and exit the site approximately 2 to 4 times per month. No loading or unloading area is needed
- 9. All areas disturbed by the construction of the antenna and cabinet shall be restored in kind. Contractor is to provide soil erosion control measures as needed or as directed by owner or government agency having jurisdiction
- 10. Ingress and egress by Lessee's personnel to the site shall be via a proposed vel drive (by others) from North Winn Road.
- 11. This site plan is based on the survey of the existing conditions conducted by Midwestern Consulting, LLC on 12-16-2014.

GENERAL NOTES / CONDITIONS OF APPROVAL

CONDITIONS OF APPROVAL

- 1. Provision of a satisfactory legal description for the leased area.
- 2. Verification of satisfactory installation of the antenna apparatus.
- 3. Satisfactory site clean up/restoration following site construction.
- 4. Satisfactory amendment to the existing lease agreement

2

GENERAL CONSTRUCTION NOTES:

- GENERAL CONSTRUCTION NOTES:

 1. THE FACILITY IS AN UNOCCUPIED DIGITAL TELECOMPUNICATION FACILITY.

 2. PLANS ARE NOT TO BE SCALED AND ARE INTENDED TO BE A DIAGRAMMATIC OUTLINE ONLY, UNLESS NOTED OTHERWISE. THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT, APPRITEDMICES SAN D LABOR NECESSARY TO COMPLETE ALL INSTALLATIONS AS INDICATED ON THE DRAWNOS.

 3. PRIOR TO THE SUBMISSION OF BIDS, THE CONTRACTOR SHALL WIST THE JOB SITE AND BE RESPONSIBLE FOR ALL CONTRACT DOCUMENTS, FIELD CONDITIONS AND DIMENSIONS, AND CONFIRMING THAT THE WORK MAY BE ACCOMPUSHED AS SHOWN PRIOR TO PROCEEDING WITH CONSTRUCTION, ANY BE ACCOMPUSHED AS SHOWN PRIOR TO PROCEEDING WITH CONSTRUCTION TO PROCEED AS SHOWN PRIOR TO PROCEEDING WITH THE WORK WAS AND ARCHITECT/PKIGNEET PRIOR TO PROCEEDING WITH THE WORK WAS AND ARCHITECT/PKIGNEET PRIOR TO PROCEEDING WITH THE WORK.

 4. THE CONTRACTO SOLUTIONS.

 5. CONTRACTOR SHALL RECEVE, IN WRITING, AJIPMENZIATION TO PROCEED BY THE CONTRACT DOCUMENTS.

 5. CONTRACTOR SHALL GREVE, IN WRITING, AJIPMENZIATION THAT ANY EXCANATION, SIEW ROKK OR CONSTRUCTION.

 6. THE CONTRACTOR SHALL INSTALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MAY EXCANATION, OF THE WORK OF CONSTRUCTION.

 6. THE CONTRACTOR SHALL INSTALL FOUND FURNISHED THAT PRECEDENCE, TO PROCEED THE WORK OF CONSTRUCTION.

 6. THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH ALL STREET ACCORDANCE WITH ALL PRIVICATIONS TAKE PRECEDENCE, TO PROVIDE THE WORK OF CONTRACTOR SHALL INSTALL ALL PRIVILATIONS THAT PRECEDENCE, TO PROVIDE THE WORK OF CONTRACTOR SHALL INSTALL ON THE WORK OF THE WORK OF THE WORK. MECHANICAL AND DELECTRICAL SYSTEMS SHALLE BE INSTALLED IN ACCORDANCE WITH ALL POPULABLE DUE FOR THE WORK. ALL POPULABLE DUE FOR THE WORK OF THE WORK

- LAMS, DEDINNICES, RULES, RECULATIONS AND LAWFUL GODERS OF ANY PUBLIC AUTHORITY RECARDING THE PERFORMANCE OF THE WORK MECHANICA. AND ELECTRICAL SYSTEMS SHALL BE INSTITULED IN ACCORDANCE WITH ALL APPLICABLE MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS, AND LOCAL AND STATE JURISDICTIONAL CODES, ORDINANCES AND APPLICABLE RECULATIONS.

 8. THE GENERAL CONTRACTOR SHALL SUPPRINSE AND DIRECT THE WORK, USING THE BEST SKILLS AND ATTENTION. THE CONTRACTION SHALL BE SOLIETY RESPONSIBLE FOR ALL CONSTRUCTION WEAKS, WETHOOS, TECHNOLOUS, SCOURACES AND PROCEDURES AND FOR COORDINATING ALL PORTIONS OF THE WORK UNDER THE CONTRACT INCLUDING CONTRACT INCL

STANDARD CIVIL NOTES:

- 1. ALL SITE WORK SHALL BE AS INDICATED ON THE DRAWINGS AND STIPULATED IN
- THE SPECIFICATION PROJECT SUMMARY.

 2. RUBBISH, STUMPS, DEBRIS, STICKS, STONES AND OTHER REFUSE SHALL BE REMOVED FROM THE SITE AND DISPOSED OF LEGALLY.

 3. NO FILL OR EMBANNERT MATERIAL SHALL BE PLACED ON FROZEN GROUND, FROZEN MATERIALS, SNOW OR ICE SHALL NOT BE PLACED IN ANY FILL OR
- 3. NO FILL OR EVBANKWENT MATERIAL SHALL BE PLACED ON FROZEN GROUND.

 PROZEN MATERIALS, SNOW OR ICE SHALL NOT BE PLACED IN NAT' FILL OR

 PROZEN MATERIALS, SNOW OR ICE SHALL NOT BE PLACED IN NAT' FILL OR

 1. HE SUB CROOK SHALL BE COUPACTED AND BROUGHT TO A SMOOTH UNIFORM

 GRADE FRORT TO THE CRUSHED STORE APPLICATION.

 5. ALL EXISTING ACTIVE SEWER, WATER, GAS, ELECTRIC, AND OTHER UTILITIES WHERE

 ENCOUNTEED IN THE WORK, SHALL BE PROTECTED AT ALL TIMES, AND WHERE

 REQUIRED FOR THE PROPER EXECUTION OF THE WORK, SHALL BE RELOCATED AS

 DIRECTED BY ENGINEERS. EXTREME CAUTION SHOULD BE USED BY THE CONTRACTOR

 WHEN EXCAMATING OR PIER BRILLING AROUND OR NEAR UTILITIES.

 CONTRACTOR

 5. ALL EXISTING INACTIVE SEWER, WATER, GAS, ELECTRIC AND OTHER UTILITIES,

 WHICH INTERFERE WITH THE EXECUTION OF THE WORK, SHALL BE REMOVED

 AND SHALL BE CAPPED, PLUGGED OR OTHERWISE DISCONTINUED AT POINTS

 WHICH WILL NOT INTERFERE WITH THE EXECUTION OF THE WORK, SHALL BE

 GRADED TO A UNIFORM SLOPE, FERTILIZED, SEEDED, AND COVERED WITH

 MULCH AS SPECIFIED IN THE SPECIFICATION LANDSCAPE WORK.

 CONCRETE MASONITY UNITS SHALL BE MEDIUM WEIGHT UNITS CONFORMING TO

 ASTM COO, GRADE N-1, WITH MAXIMUM LINKAYS SHRINKAGE OF 0.99° (FWH-1,500 PSI),

 MEDIUM WIGHT (115 PCF).

 9. MORTAR SHALL BE TYPE 'S CONFORMING TO TABLE 24-A OF THE UGC.

 (MINAMUM RIGHT (115 PCF).

 9. MORTAR SHALL BE TYPE 'S CONFORMING TO TABLE 24-A OF THE UGC.

 (MINAMUM 1,800 PSI AT 28 DAYS), ADMINTURE SHALL BE 1-PINT OF RED LABEL

 SUCCOMEN PER SACK OF CEVERT.

 10. COUCHES AND SACK SHALL BE TOWN THE FOR PORNING

 10. GROUP SHALL BE CAPPED SHALL BE LOWN KINDERS SHALL BE 1-PINT OF RED LABEL

 SUCCOMEN PER SACK OF CEVERT.

 11. SHALL BE CAPPE SHALL BE 1-PINT OF RED LABEL SUCONEM PER

 SACK OF CEMENT, WEIGHT SHALL BE 105 PGF.

 11. THE ARCH WITH THE WAY THE POIL ON THE PINT OF RED LABEL SUCONEM PER

 SACK OF CEMENT, WEIGHT SHALL BE 105 PGF.

 11. THE ARCH WORK SHALL BE 105 PGF.

STANDARD STRUCTURAL STEEL NOTES:

- SIANDARO SHRUCTURAL STEEL NOTES:

 1. ALL METAL WORK SHALL BE IN ACCORDANCE WITH THE SPECIFICATION CALVANIZED ASTM A35 UNILESS NOTED DIHERWISE.

 2. STRUCTURAL TUBING WHUBERS SHALL CONFORM TO ASTM A500, CRADE B OR A501.

 3. ALL WELDING SHALL BE DONE USING FOXX ELECTRODES AND WELDING SHALL CONFORM TO ASC AND AWS D1.1. WHERE FILLET WELD SIZES ARE NOT SHOWN, PROVIDE THE MINIMUM SIZE PER TABLE 1/2.4 IN THE ASC "MAVALL OF STEEL CONSTRUCTION", 9TH EDITION.

 4. BIOLIED CONNECTIONS SHALL USE BEARING TYPE GALVANIZED ASTM A325 BOLTS (3/4" DA.) AND SHALL HAVE A MINIMUM OF TWO BOLIS UN.O.

 5. NON-STRUCTURAL CONNECTIONS FOR PANORALL LADDERS AND STEEL CRATING MAY USE 5/8" DIA. GALVANIZED ASTM A307 BOLTS U.N.O.

GENERAL STRUCTURAL NOTES:

- WHERE A CONSTRUCTION DETAIL IS NOT SHOWN DR NOTED, THE DETAIL SHALL BE THE SAVE AS FOR OTHER SIMILAR WORK.
 NOTES AND DETAILS ON DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL.

- BE THE SAVE AS FOR OTHER SIVILAR WORK.

 NOTES AND DETAILS ON DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL NOTES.

 NOTES.

 NOTES, SIDE DETAILS ON DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL NOTES.

 NO PIPES, DUCTS, SLEEVES, CHASES, ETC., SHALL BE PLACED IN SLABS, BEAMS, OR WALLS UNLESS SPECIFICALLY SHOWN OR NOTED, NOR SHALL ANY STRUCTURAL MEMBER BE CUT FOR PIPES, DUCTS, ETC., UNLESS OTHERWISE NOTED. CONTRACTOR SHALL OBTAIN PRIOR APPROVAL FOR INSTALLATION OF ANY ADDITIONAL PIPES, DUCTS, ETC.

 CONTRACTOR AGREES THAT HE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT INCLUDING SAFETY OF ALL PERSONS AND PROPERTY, THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LUTIFIED TO NORMAL WORKING HOURS; AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNITY AND HOLD LESSE AND THE ARCHITECT/ENGINEER HARMLESS FROM ANY AND ALL LUBBLITY, REAL OR ALLEGED, IN CONNECTION WHILL THAT HE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING FOR LUBBLITY ARISING FROM THE SOLE NEGLEGIENCE OF LESSEE OR THE ARCHITECT/ENGINEER THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTO BRAWNOS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL PROMDE ARCHITECT, SHOW THE PROPERTY OF THE STRUCTURE, WORKERS AND PEDESTRANS OUR PRODUCTION SHOULD RESPECTIVE TO THE SITE OF THE LATEST THE STRUCTURE SHALL FROM SHALL FOR THE SITE BY THE ARCHITECT/ENGINEER SHALL NOT INCLUDE. SENSETCH THE SITE STRUCTURES. AND PARTIALLY COMPLETED WORK, ETC. DOSSERVATION WISTS TO THE SITE OF THE LATEST REVISION.
- SITE BY THE ARCHITECT/ENGINEER SHALL NOT INCLUDE INSPECTION OF SUCH ITEMS.

 ATM SPECIFICATIONS NOTICE ON THE DAWNINGS SHALL BE OF THE LATEST REVISION.

 CONSTRUCTION MATERIALS SHALL BE SPREAD OUT IT PLACED ON FRAMED FLOOR OR ROOF. LOAD SHALL NOT EXCEED THE DESIGN EITH PLACED ON FRAMED FLOOR OR ROOF.

 LOAD SHALL BE HER KESPONSIBILITY OF THE CONTRACTOR TO LOCATE ALL EXISTING UTILITIES WHETHER SHOWN HEREON OR NOT AND TO PROTECT THEM FROM DAWAGE. THE CONTRACTOR SHALL BEAR ALL EXPENSE OF REPAIR OR REPLACEMENT IN CONJUNCTION WITH THE PROSECUTION OF THIS WORK.

 DIMENSIONS SHALL TAKE PRECEDENCE OVER SCALES SHOWN ON DRAWINGS.

 THESE NOTES SHALL BE CONSIDERED A PART OF THE WRITTEN SPECIFICATIONS.

 ALL ITEMS REMOVED DURING CONSTRUCTION WORK (I.E., DRYWALL, PLYWOOD, CEILING PRACES, ETC.) SHALL BE CEPLACED TO MATCH EXISTING.

 THE FOLLOWING REQUIREMENTS SHALL BE CREDACED TO MATCH EXISTING.

 THE FOLLOWING REQUIREMENTS SHALL BE LEVEREDED TO MATCH EXISTING.

- A THE SPECIAL INSPECTOR SHALL BE UNDER THE SUPERVISION OF A REGISTERED PROFESSIONAL ENGINEER.
- REGISTRED PROFESSIONAL EMERCER.

 B. THE SPECIAL INSPECTOR SHALL FURNISH INSPECTION REPORTS TO THE
 THE ARCHITECT/ENGNEER, AND OTHER DESIGNATED PERSONS. ALL DISCREPANCIES
 SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR
 CORRECTION, THEN, IF UNCORRECTED, TO THE PROPER DESIGN AUTHORITY AND
 THE BUILDING OFFICIAL.
- THE BUILDING OFFICIAL.

 THE SPECIAL INSPECTOR SHALL SUBMIT A FINAL REPORT SIGNED BY BOTH HE AND HIS SUPERWISOR STATING WHETHER THE WORK REQUIRING SPECIAL INSPECTION WAS IN CONFORWANCE WITH THE APPROVED PLANS AND SPECIFICATIONS AND THE APPLICABLE WORKWANSHIP PROVISIONS OF THE UNIFORM BUILDING CODE.
- D. COMPLY WITH ALL CITY SPECIAL INSPECTION REQUIREMENTS

STANDARD CONCRETE NOTES:

- ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH THE ACI 318-02 AND THE SPECIFICATION FOR CAST-IN-PLACE CONCRETE.
- ALL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 2,500 PSI AT 28 DAYS UNLESS NOTED OTHERWISE.
- RENFORCING SIEEL SHALL CONFORM TO ASIM A 615, GRADE 60, DEFORMED UNLESS NOTED DIMERWISE. WELDED WIRE FABRIC SHALL CONFORM TO ASIM A 185 WELDED STEEL WIRE FABRIC UNLESS NOTED DIMERWISE. SPLICES CLASS 'B' AND ALL HOOKS SHALL BE STANDARD UNLESS NOTED DIMERWISE.
- THE FOLLOWING MINIMUM CONCRETE COVER SHALL BE PROVIDED FOR REINFORCING STEEL UNLESS SHOWN OTHERWISE ON DRAWINGS:

CONCRETE CAST AGAINST EARTH

CONCRETE EXPOSED TO EARTH OR WEATHER:

CONCRETE NOT EXPOSED TO EARTH OR WEATHER OR NOT CAST AGAINST THE GROUND:

SLAB AND WALL3/4 IN. BEAMS AND COLUMNS1-1/2 IN.

- A CHAMFER 3/4" SHALL BE PROVIDED AT ALL EXPOSED EDGES OF CONCRETE U.N.O. IN ACCORDANCE WITH ACI 301 SECTION 4.2.4.
- HOLES TO RECEIVE EMPANSION/WEDGE ANCHORS SHALL BE 1/8" LARGER IN DIAMETER
 THAN THE ANCHOR BOLT, DOWEL OR ROD AND SHALL CONFORM TO MANUFACTURER'S
 RECOMMENDATION FOR EMBEDIMENT DEPTH OR AS SHOWN ON THE DRAWINGS. LOCATE
 AND AVOID CUTTING EXISTING REDAR WHEN DRILLING HOLES IN ELEVATED CONCRETE SLABS.
- USE AND INSTALLATION OF CONCRETE EXPANSION/WEDGE ANCHOR, SHALL BE PER ICBO & MANUFACTURER'S WRITTEN RECOMMENDED PROCEDURES.

LEASE AGREEMENT NOTES:

- PRIOR TO A STATION BEING PLACED IN SERVICE, IT MUST BE EQUIPPED WITH THE FOLLOWING PROTECTIVE DEVICES:
- A. PROPER ISOLATION, FILTER AND INTERFERENCE PROTECTION EQUIPMENT.
- B. A FREQUENCY COMPATIBILITY STUDY SHOULD BE PERFORNED BY TENANT TO ENSURE THAT NO INTERFERENCE WILL OCCUR TO EXISTING EQUIPMENT OR TO THE SURROUNDING AREA. COMPLIANCE WITH ALL REGULATIONS AND SPECIFICATIONS AS WELL AS INTERFERENCE RESOLUTION IS THE RESPONSIBILITY OF EACH TENANT.
- 2. ALL EQUIPMENT ANTENMAS, CABLES, CABINETS, ETC. SHALL HAVE WEATHERPROOF ID TAGS AND A COPY OF A VALID FCC LICENSE, CALL SIGN OR EQUIVALENT AFFACE TO IT IN FULL VIEW. ALL 10 TAGS SHALL BE LEGIBLE AND SHALL SHOW THE LESSET'S NAVE, ADDRESS, TELPHONE NUMBER, AND CALL SIGN (OR EQUIVALENT), IN ADDITION, THE AUTHORIZED MANTENANCE PERSON OR ORGANIZATION SHALL BE SHOWN ALONG WITH CURRENT CONTACT INFORMATION TO INCLUDE ADDRESS AND TELEPHONE NUMBER.
- VAPOR LOCK OR EQUIVALENT WILL BE USED ON ALL CONNECTORS AND CONNECTIONS THAT ARE EXPOSED TO WEATHER ELEMENTS. ELECTRICAL TAPE WILL NOT BE UTILIZED OUTSIDE THE CONFINES OF THE INTERNAL BUILDING STRUCTURE FOR WEATHERPROOFING CONNECTIONS.

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LAKE"

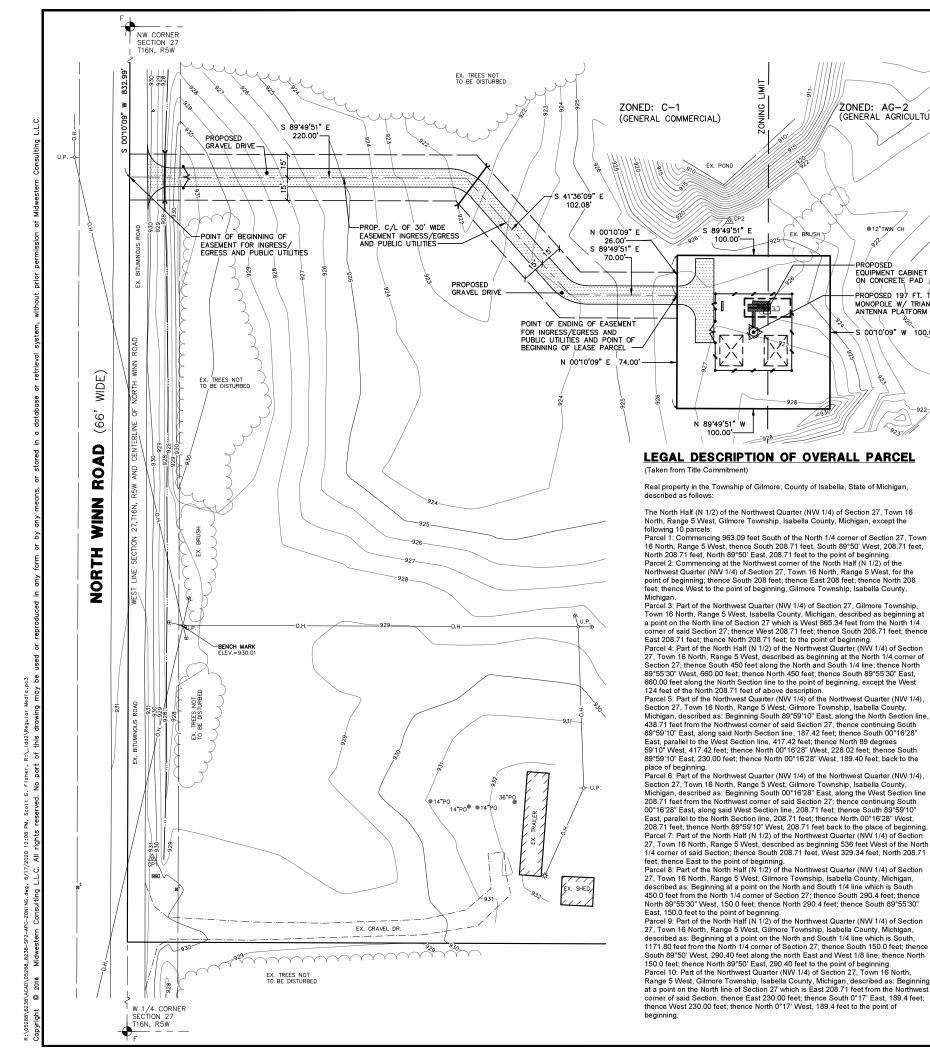
GILMORE TOWNSHIP, ISABELLA COUNTY, MICHIGAN GENERAL NOTES AND MATERIAL LIST

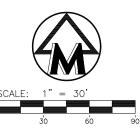
SITE

DATE: 7/28/17
SHEET 2 OF 1
CADD: JBB
ENG: SGF
PM: SGF
TECH: DATE DATE

05268-6238

MISCELLANEOUS NOTES AND MATERIAL LIST





ZONED: AG-2 (GENERAL AGRICULTURE)

EQUIPMENT CABINET

ON CONCRETE PAD

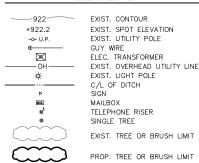
PROPOSED 197 FT. TALL MONOPOLE W/ TRIANGULAR ANTENNA PLATFORM

`00.001´ w "eo'0r'00

EX. BRUSH



LEGEND





TREE LEGEND • CH CHERRY ● P0

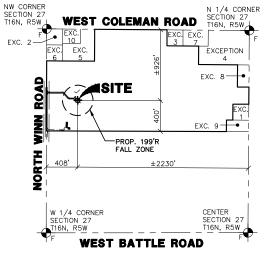
SECTION CORNER

PROPERTY INFORMATION

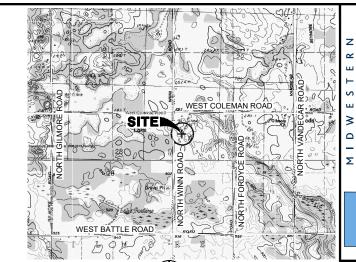
TAX PARCEL: #08-027-10-001-00

OWNER: LARY SHEFFERT AND SONYA SHEFFERT 3114 HILLTOP LANE MOUNT PLEASANT, MICHIGAN 48858

CELL SITE ADDRESS: 7866 NORTH WINN ROAD FARWELL, MICHIGAN 48622



OVERALL PARCEL SKETCH
SCALF: 1"=600' SCALE: 1"=600



VICINITY SKETCH

LOCATION

LONGITUDE 84° 54' 24.9" LATITUDE 43° 45' 11.5" GROUND ELEV. @ TOWER BASE = 927.50

LEGAL DESCRIPTION OF LEASE PARCEL

Commencing at the Northwest Corner of Section 27, T16N, R5W, Gilmore Township Isabella County, Michigan; thence S 00°10'09" W 832.99 feet along the west line of said Section 27 (also being the centerline of North Winn Road, 66 feet wide); thence S 89°49'51" E 220.00 feet; thence S 41°36'09" E 102.08 feet; thence S 89°49'51" E 70.00 feet to the POINT OF BEGINNING

thence N 00°10'09" E 26.00 feet; thence S 89°49'51" F 100 00 feet thence S 00°10'09" W 100.00 feet thence N 89°49'51" W 100.00 feet

thence N 00°10'09" E 74.00 feet to the POINT OF BEGINNING; being a part of the Northwest 1/4 of Section 27, T16N, R5W, Gilmore Township, Isabella County, Michigan; containing 10,000 sq. ft. or 0.230 acres of land, more or less; and subject to easements and restrictions of record,

Together with a 30 foot wide easement for ingress, egress and public utilities, the centerline of said easement is described as:

Commencing at the Northwest Corner of Section 27, T16N, R5W, Gilmore Township Isabella County, Michigan; thence S 00°10'09" W 832.99 feet along the west line of said Section 27 (also being the centerline of North Winn Road, 66 feet wide) to the

thence S 89°49'51" E 220.00 feet; thence S 41°36'09" E 102.08 feet:

thence S 89°49'51" E 70.00 feet to the POINT OF ENDING; being a part of the Northwest 1/4 of Section 27, T16N, R5W, Gilmore Township, Isabella County, Michigan; except any part taken, deeded or used for public road purposes; and subject to easements and restrictions of record, if any.

NOTE

Rotate all bearings 00°22'07" counter-clockwise to obtain bearings based on True North as determined from global positioning system (GPS).

Railroad spike in the south face of a utility pole located ±36 feet east of North Winn Road, and ±200 feet north of the existing gravel drive to the property (trailer and

Elevation: 930.01 (NAVD 88 Datum)





SCOTT G. FISHER P.E. #58473

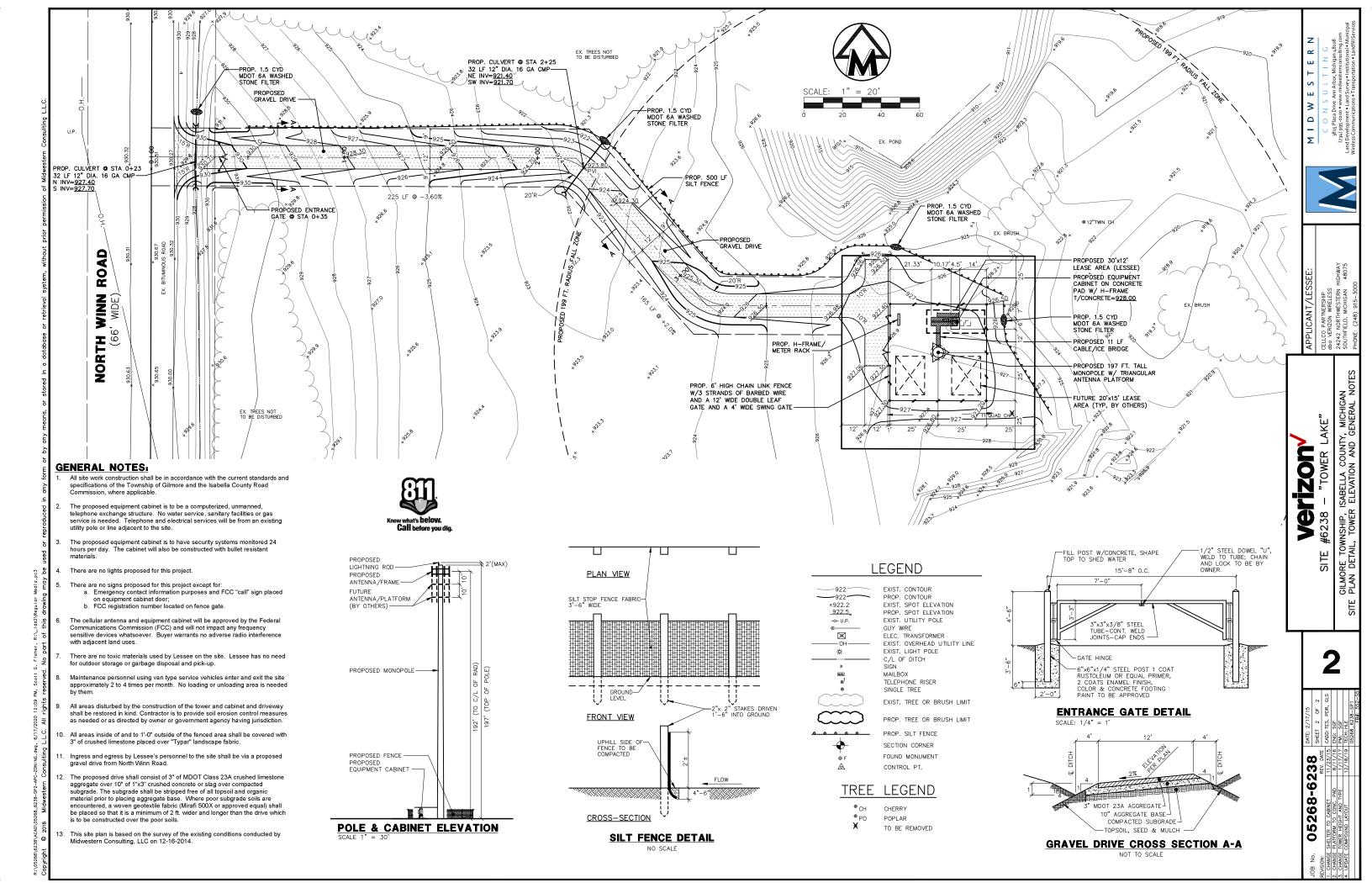
LAKE" COUNTY, MICH ZON ISABELLA GENERAL I

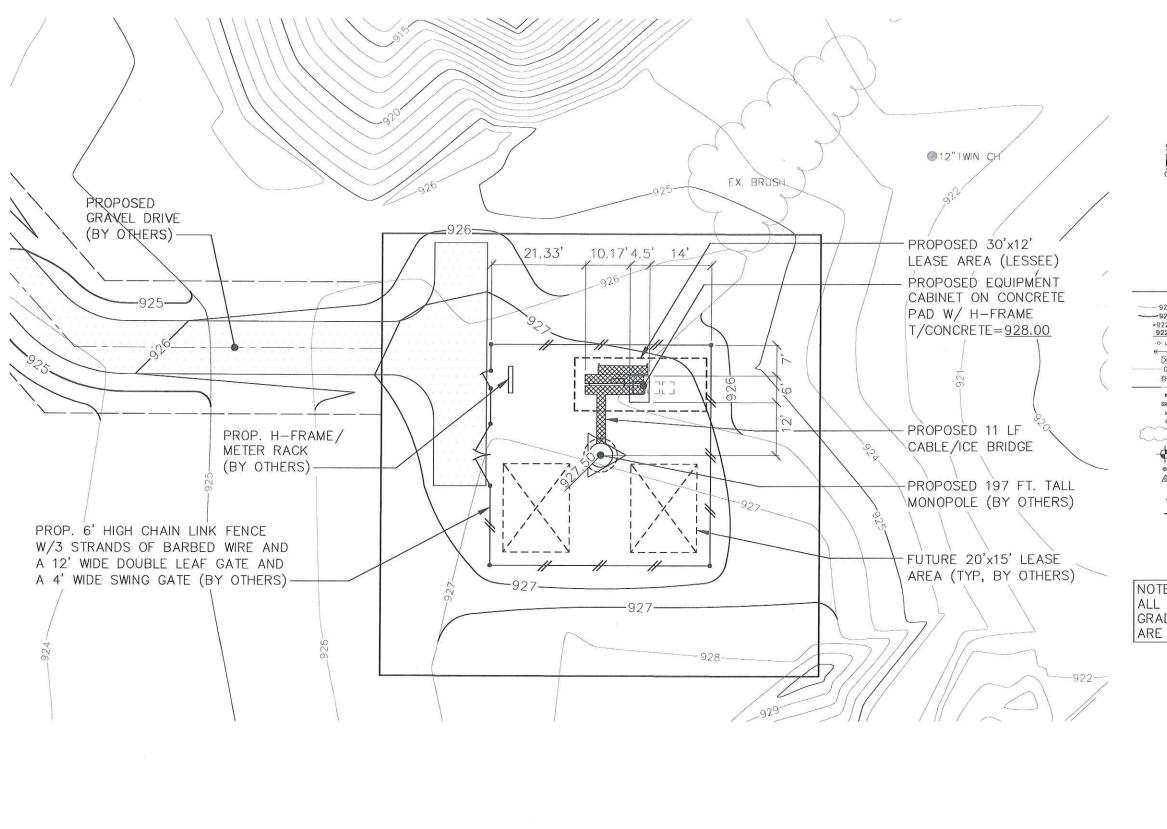
(4)

GILMORE TOWNSHIP, SITE SURVEY, SITE

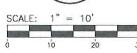
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05268-623











LEGEND

EXIST. CONTOUR ×922.2 922.5 -0- U.P.

PROP. CONTOUR (BY OTHERS)
EXIST. SPOT ELEVATION
PROP. SPOT ELEVATION (BY OTHERS)
EXIST. UTILITY POLE GUY WIRE ELEC. TRANSFORMER EXIST. OVERHEAD UTILITY LINE EXIST. LIGHT POLE

C/L OF DITCH SIGN MAILBOX

TELEPHONE RISER SINGLE TREE EXIST. TREE OR BRUSH LIMIT

SECTION CORNER FOUND MONUMENT CONTROL PT.

TREE LEGEND

^e CH CHERRY e PO POPLAR

NOTE: ALL REMOVALS, MASS GRADING AND SITE WORK ARE TO BE DONE BY OTHERS

MIDWES

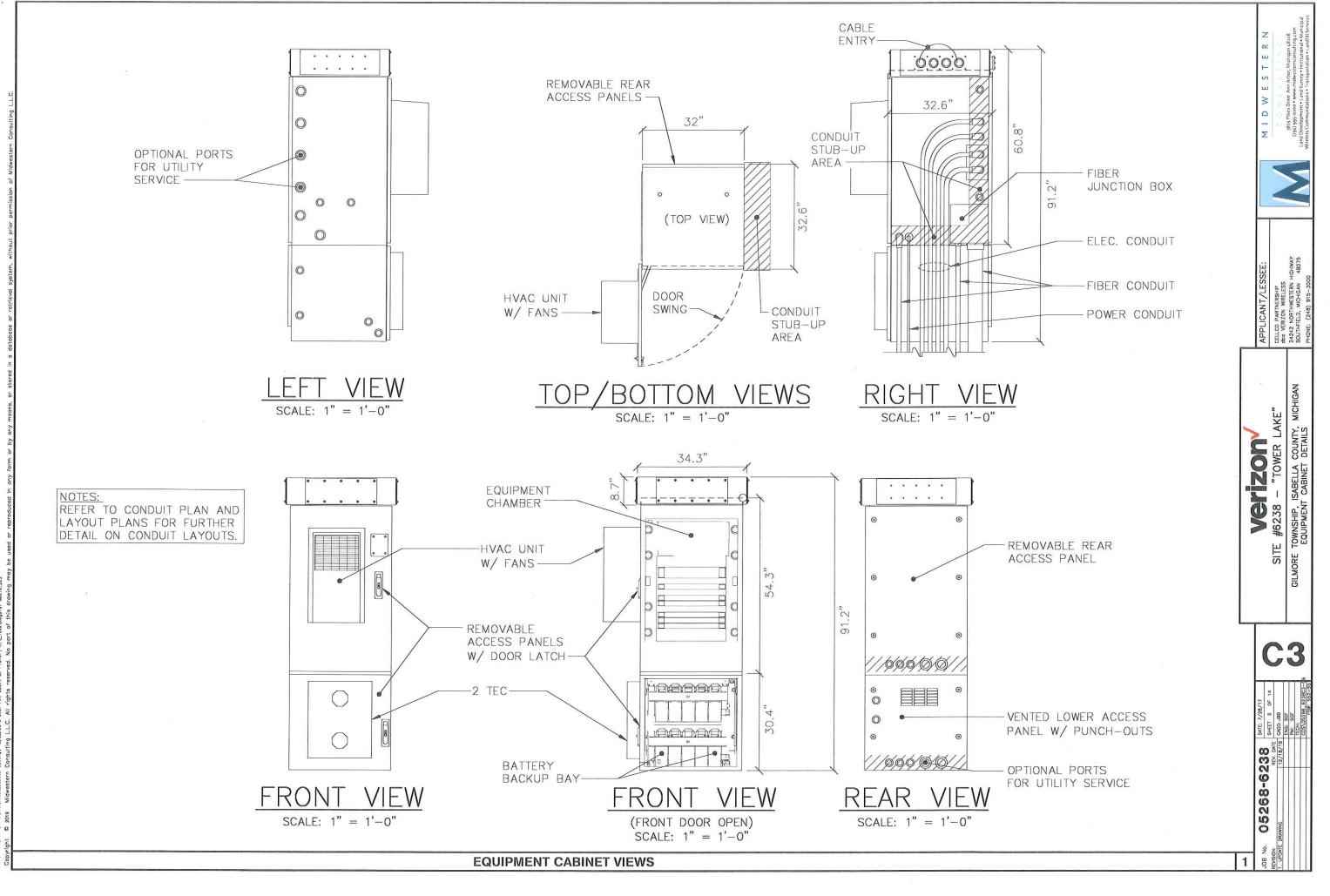
VEFIZON

ITE #6238 — "TOWER LAKE"

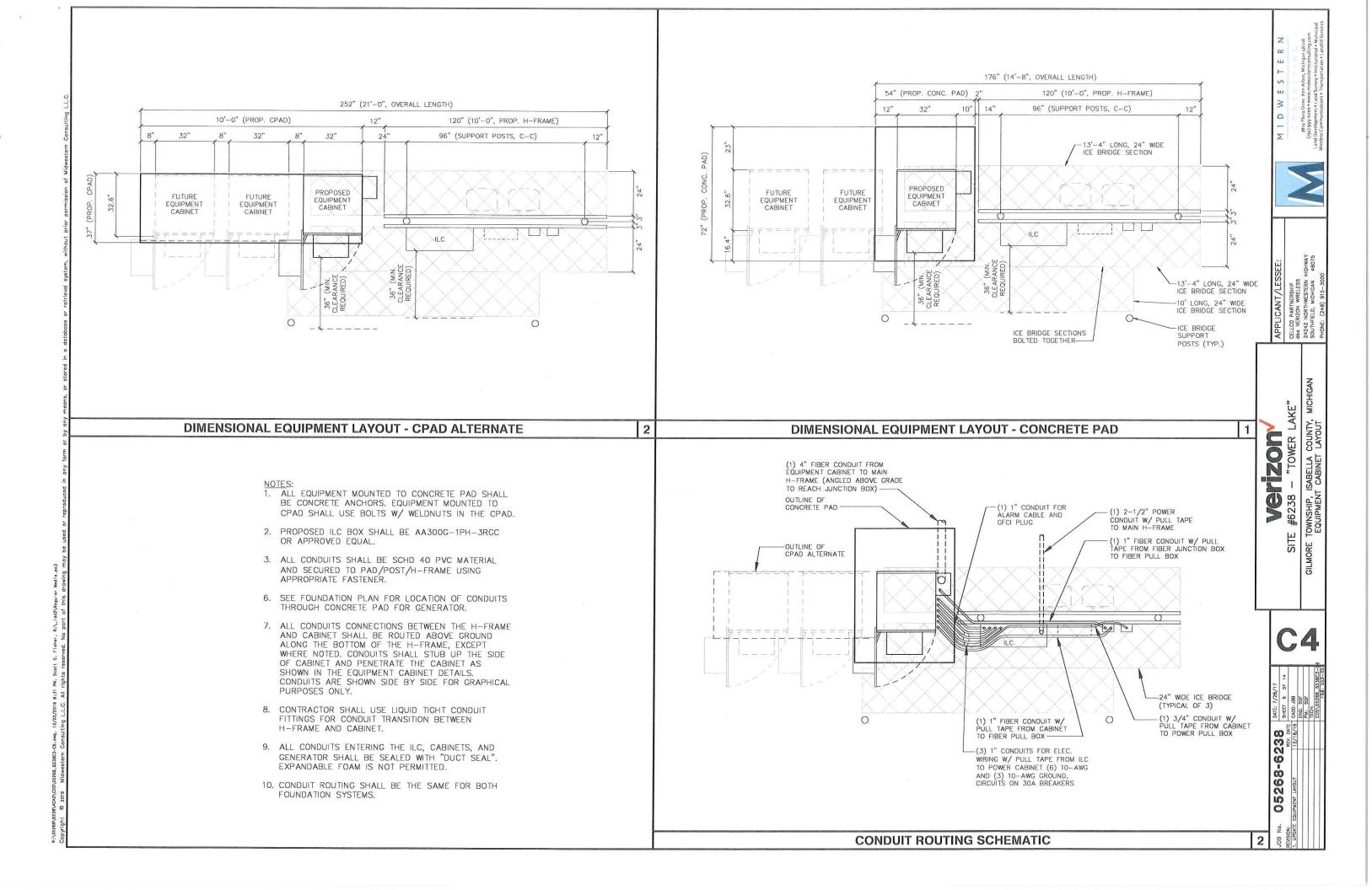
E TOWNSHIP, ISABELLA COUNTY, MICHI

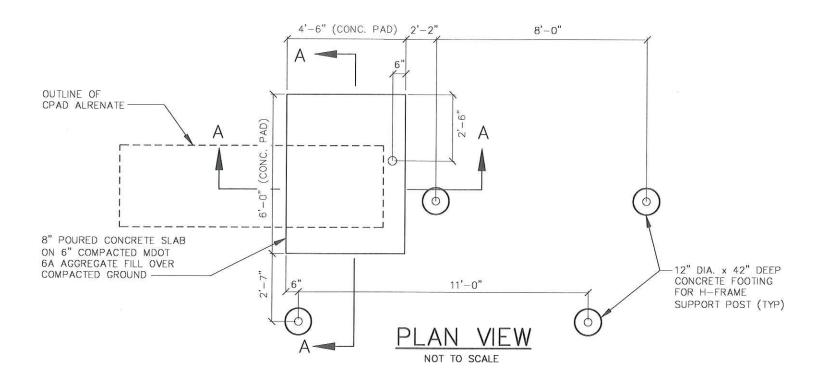
SITE

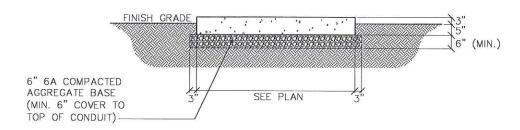
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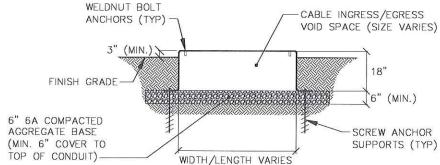
2338.3-C6. dwg. 12/22/2019 8-31 PM Sent C Flater D-V Lddybeaning Madia ---







SECTION A-A (CONCRETE PAD)





TYPICAL SECTION (COMPOSITE PAD)

CPAD ISOMETRIC VIEW NOT TO SCALE

GENERAL NOTES

1. Work shall be in accordance with local codes, safety regulations and, unless otherwise noted, the latest revision of ACI 318 Building Code Requirements for Reinforced Concrete." Procedures for the protection of excavations, existing construction and utilities shall be established prior to foundation installation. The contractor is responsible for contacting the utility locating company three (3) working days before

- 2. The contractor shall review the geotechnical report prepared by G2 Consulting Group, LLC (or the geotechnical engineering company for this project) prior to commencing operations at the site. The design load is a maximum of 10 kips based on information provided by the owner. If soil of insufficient bearing capacity is encountered at the depth indicated on the drawings, the contractor shall contact the design engineer for instructions prior to continuing construction at that location. Loose material shall be removed from the bottom of the excavation prior to the placement of concrete. The sides of the excavation shall also be free of loose
- 3. Concrete materials shall conform to the appropriate State requirements for exposed structural concrete. The concrete shall have an air entrainment of between 4% and
- 4. The proportions of concrete materials shall be suitable for the installation method utilized and shall result in durable concrete for resistance to local anticipated aggressive actions. The durability requirements of ACI 318, Chapter 4, shall be satisfied based on the conditions expected at the site. Concrete shall develop a minimum compressive strength of 3,000 psi in 28 days. The maximum aggregate size shall not exceed 3/4 inch; size suitable for the installation method utilized; or one—third (1/3) of the distance behind or between reinforcing.
- 5. Concrete shall be placed in a manner that will prevent segregation of the concrete materials, infiltration of water or soil, and other occurrences which may decrease the strength or durability of the foundation. Free fall concrete may be used provided the fall is vertical without hitting the sides of the excavation, form-work, reinforcing bars, form ties, cage bracing, or other obstructions. The concrete slump shall be between 3 and 4 inches for free fall placement for the strip footing foundations.
- qualified geotechnical engineering company employed by the owner). The company utilized shall be coordinated for 1 day of inspection when there is not a tower foundation. Inspection tasks shall include the inspection of the grounding ring, the pre-installation concrete pad thickness and post-installation concrete pad thickness. Concrete testing is not required for the 3'x3' concrete pod. If the concrete material appears questionable, a core shall be taken of the concrete and tested for air entrainment and strength. Any concrete not meeting the requirements of the project shall be removed and replaced with all costs for replacement and testing borne by the Contractor. The contractor shall notify G2 Consulting Group, LLC (or other firm of equivalent expertise) 48 hours prior to their required presence on site.
- 7. Six (6) inches of MDOT 6A aggregate shall be provided under the equipment cabinet and generator concrete slabs and compacted to 95% maximum density as determined by ASTM D1557.
- 8. The contractor shall ensure stability of the foundation during construction and backfilling with bracing as required. Backfill along the foundation shall be placed only after the concrete has attained its design strength.
- 9. The foundation design has been developed in accordance with generally accepted professional engineering principles and practices within the limits of the subsurface data obtained. Foundation design modifications may be required in the event the design parameters are not applicable for the subsurface conditions encountered. Foundation modifications may be required in the event cut and/or fill operations have taken place subsequent to the geotechnical investigation and design.
- 10. Refer to conduit routing schematic for conduit route between sleeve locations,

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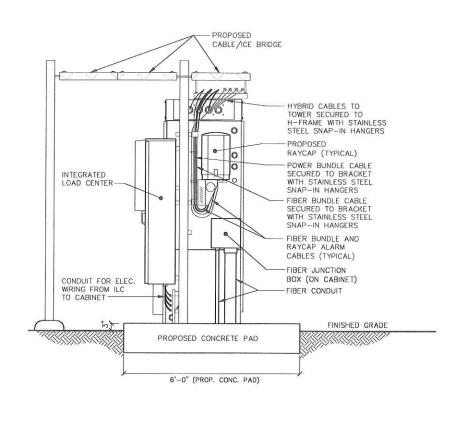
CELLCO dbo VER 24242 I SOUTHF

ISABELLA COUNTY, MICH DETAILS AND NOTES LAKE" Verizon

SITE

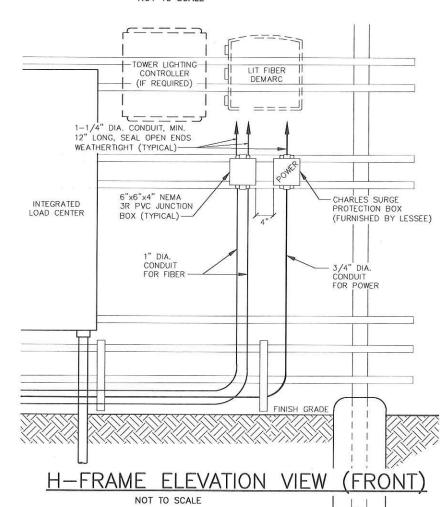
05268-6238 B SULPINENT LAYOUT 12/18/19 G

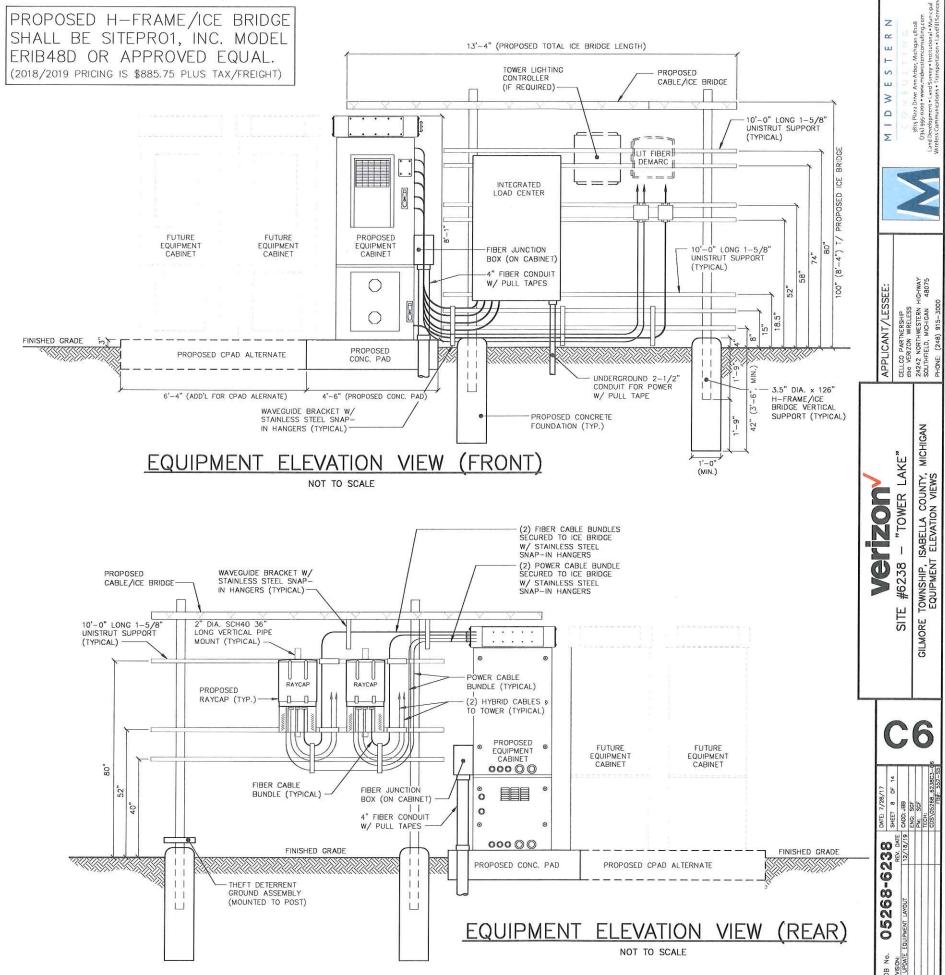
6. Foundation inspection shall be observed by G2 Consulting Group, LLC (or other



H-FRAME ELEVATION VIEW (SIDE)

NOT TO SCALE





ANTENNA SECTOR	POSITION	AZIMUTH	ANTENNA AND RRH QUANTITY/MAKE/MODEL	CABLE TYPE	CABLE QTY. x LENGTH	CABLE SIZE	DOWNTILT	COLOR	TOP JUMPER LENGTH
SECTOR X	1 20 2b 30 3b 4	60°	1 ANDREW JAHH-65C-R3B-V2_ODT_750MHZ 1 ANDREW JAHH-65C-R3B-V2_ODT_850MHZ 1 ERICSSON RRH 4449	- - - HYBRID	SEE HYBRID BELOW	SEE HYBRID BELOW	0° - 0°		- - - 4 × 10'
SECTOR Y	1 20 2b 30 3b 4	180°	1 ANDREW JAHH-65C-R3B-V2_0DT_750MHZ 1 ANDREW JAHH-65C-R3B-V2_0DT_850MHZ 1 ERICSSON RRH 4449	- - - HYBRID	SEE HYBRID BELOW	SEE HYBRID BELOW	0°	3	4 × 10'
SECTOR Z	1 20 2b 30 3b 4	300°	1 ANDREW JAHH-65C-R3B-V2_0DT_750MHZ 1 ANDREW JAHH-65C-R3B-V2_0DT_850MHZ 1 ERICSSON RRH 4449	- - - HYBRID	SEE HYBRID BELOW	SEE HYBRID BELOW	0°	<u> </u>	- - - 4 x 10'
TOWER MOUNTED	N/A	N/A	1 RAYCAP RVZDC-6627-PF-48	HYBRID	1 x 220'	1-5/8" (MIN) TO 2" (MAX)	-	PURPLE 1	9 x 15'
GPS		N/A	2 ERICSSON GPS	N/A	2 × 20'	1/2"		GRAY	N/A
- CONTR	RACTOR TO	FIELD VE	E RADIO HEAD RIFY CABLE LENGTHS PRIOR TO ORDERING, FABRICATION, OR HOWN EQUALS MOUNTING HT + CABLE LENGTH ALONG ICE B	INSTALL RIDGE +	ATION OF CABLE 10 FEET ROUN	S. DED UP T	O NEAREST	10 FOOT INCREMENT	

ANTENNA, REMOTE RADIO HEAD & CABLE SCHEDULE

CABLE COLOR LEGEND

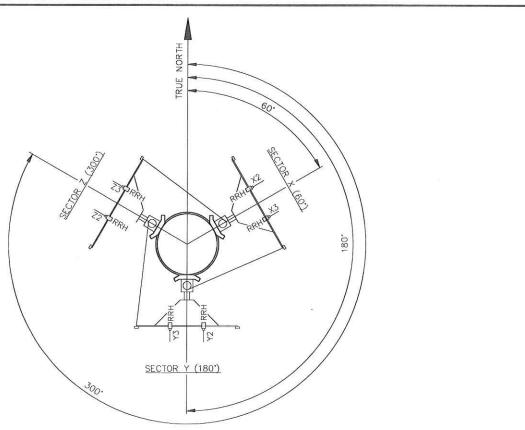
R=RED Y=YELLOW

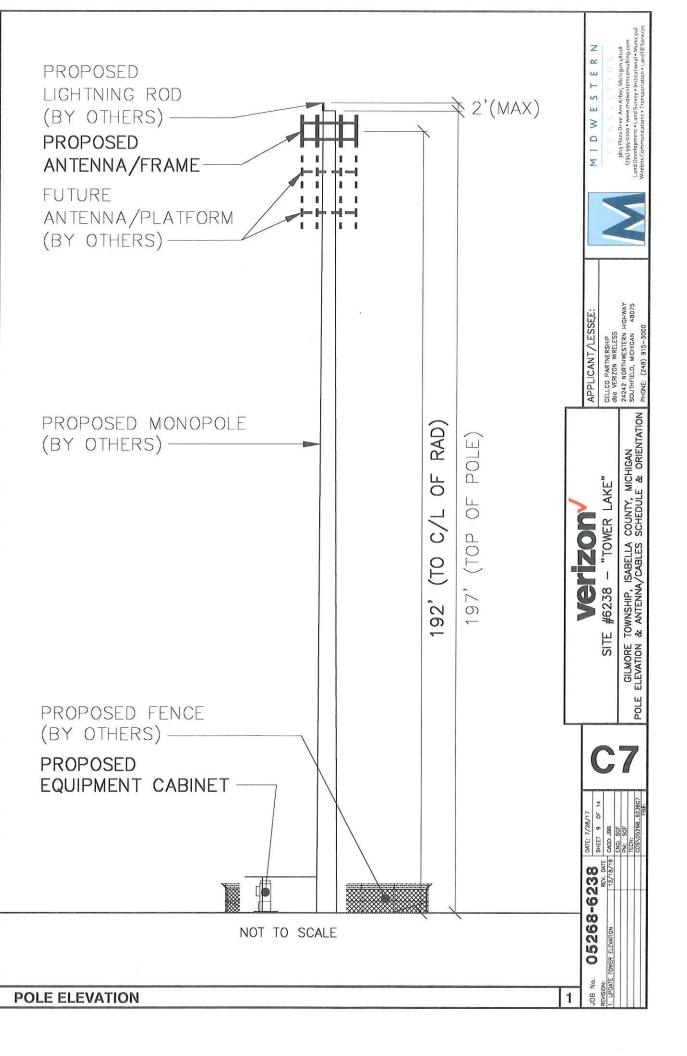
W=WHITE O=ORANGE

B=BLUE G=GREEN

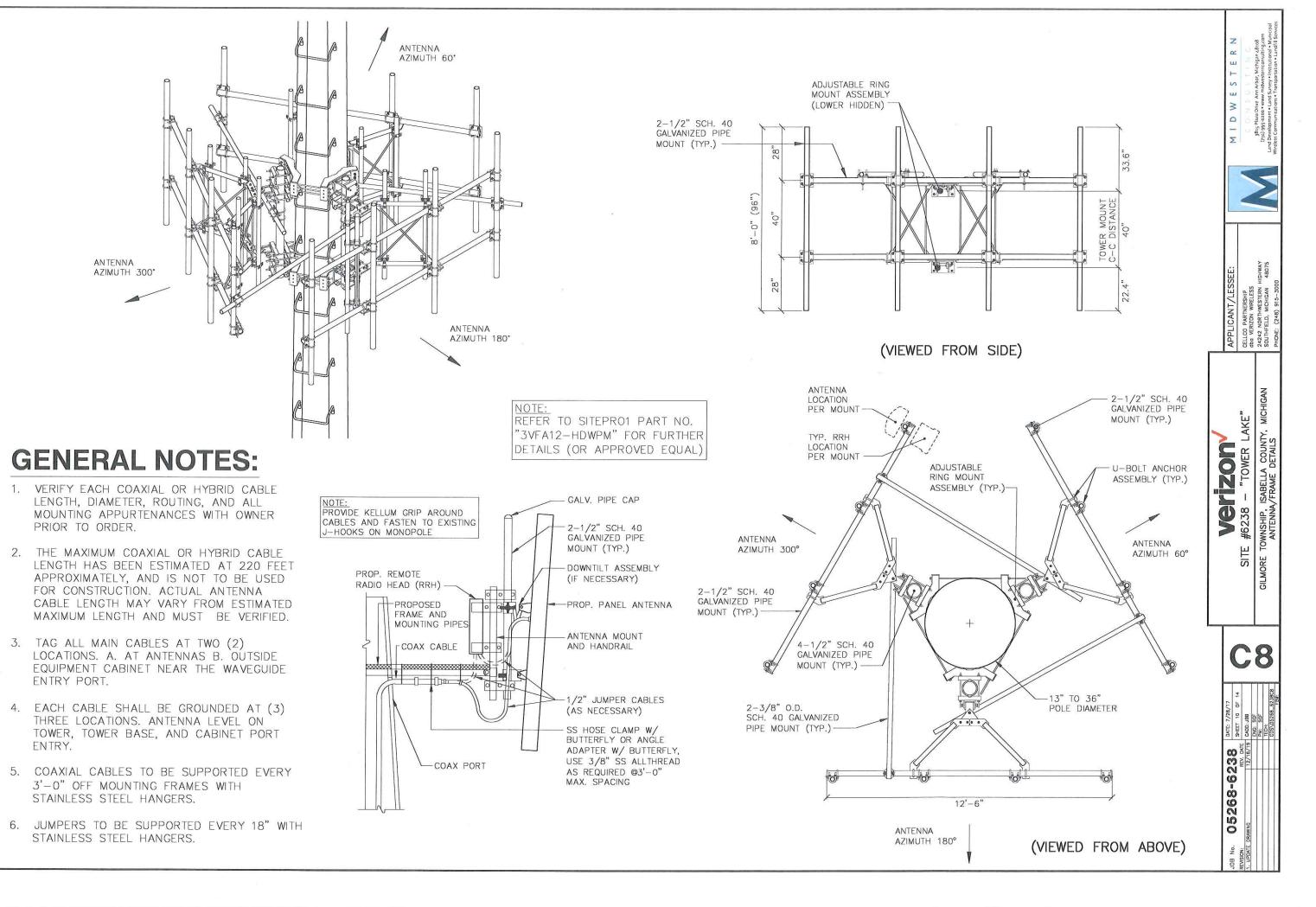
ANTENNA ORIENTATION

P=PURPLI





CAUTUM STANDARD STANDARD STANDARD STAND FOR STANDARD STAN



STANDARD SITE SIGNAGE:

REQUIRED SIGNS:	LOCATIONS:
N.O.C. "IN CASE OF EMERGENCY" NOTICE (CONTACT INFO)	FRONT ACCESS DOOR OF EACH CABINET (SEE FIGURE 1)
COMBINATION WARNING (SEE NOTE 2) COMBINATION WARNING (SEE NOTE 2)	FRONT ACCESS DOOR OF EACH CABINET WITH BATTERIES (SEE FIGURE 1)
• S.D.S.	INSIDE FRONT ACCESS DOOR OF EACH CABINET WITH BATTERIES

 $-\mbox{N.O.C.}$ STANDS FOR "NETWORK OPERATIONS CENTER" $-\mbox{S.D.S.}$ STANDS FOR "SAFETY DATA SHEET"

NOTES:

- CONTRACTOR SHALL INSTALL ALL SIGNS ON THE FRONT OF EACH CABINET. ALL SIGNS CAN BE PLACED ON ONLY THE UPPER DOOR, IF SPACE IS AVAILABLE.
- 2. CONTRACTOR SHALL INSTALL SIGN C3 $\underline{\text{OR}}$ C4 BASED ON THE TYPE OF BATTERY THAT IS BEING INSTALLED.



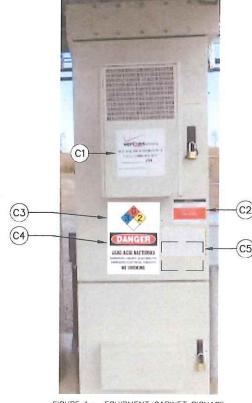


FIGURE 1 - EQUIPMENT CABINET SIGNAGE



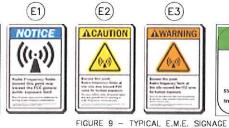
FIGURE 2 - EME SIGN





- CONTRACTOR SHALL AT A MINIMUM INSTALL
 "NOTICE" ELECTROMAGNETIC ENVIRONMENT (E.M.E.) SIGNAGE ON COMPOUND FENCE AT ALL SITES. (SEE FIGURE 2)
- CONTRACTOR SHALL VERIFY WITH THE VERIZON CONSTRUCTION MANAGER IF ANY ADDITIONAL E.M.E. SIGNAGE IS REQUIRED AT A SITE PRIOR TO SIGNAGE INSTALLATION. (SEE FIGURE 9)

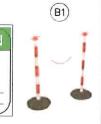








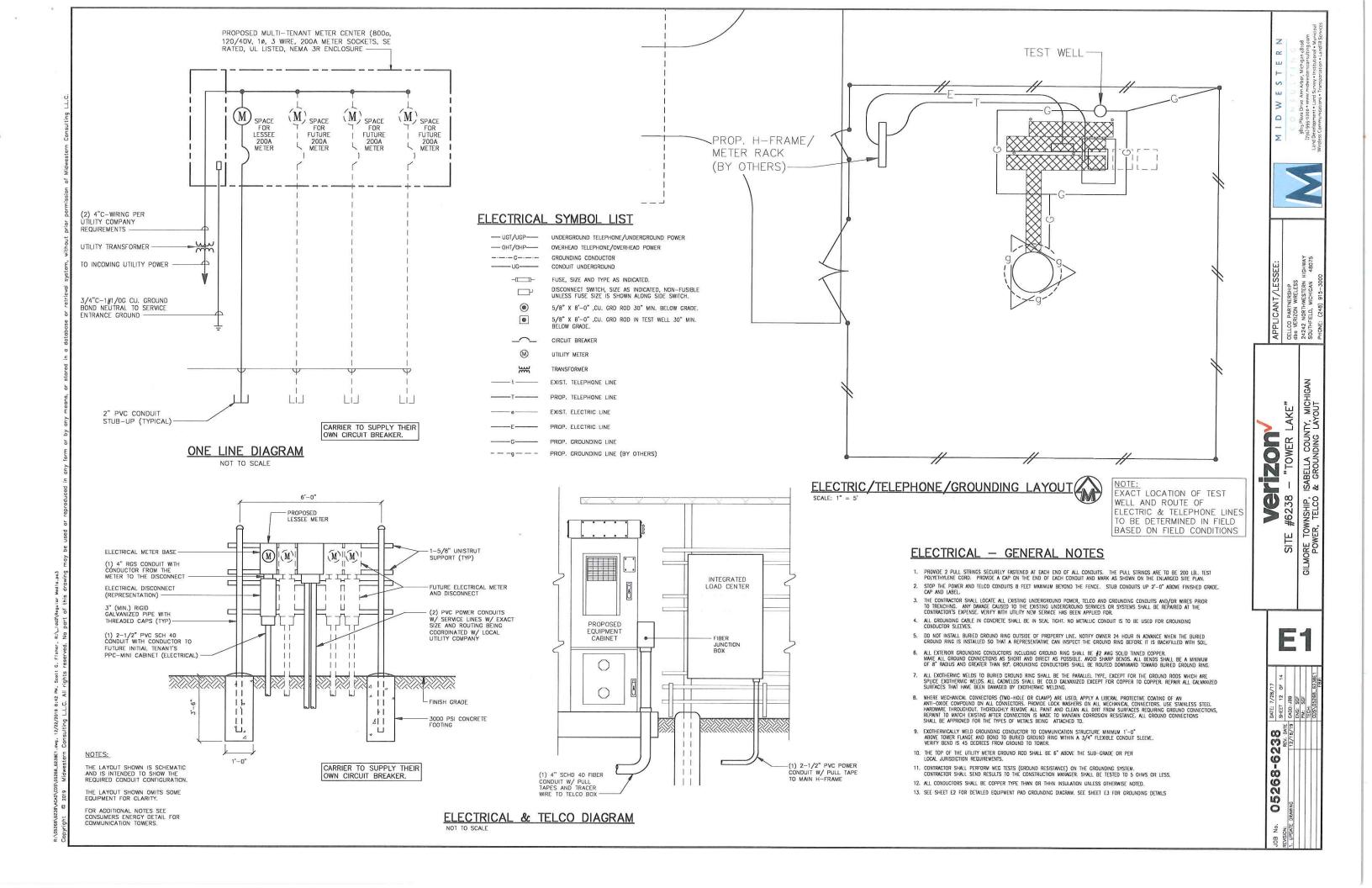


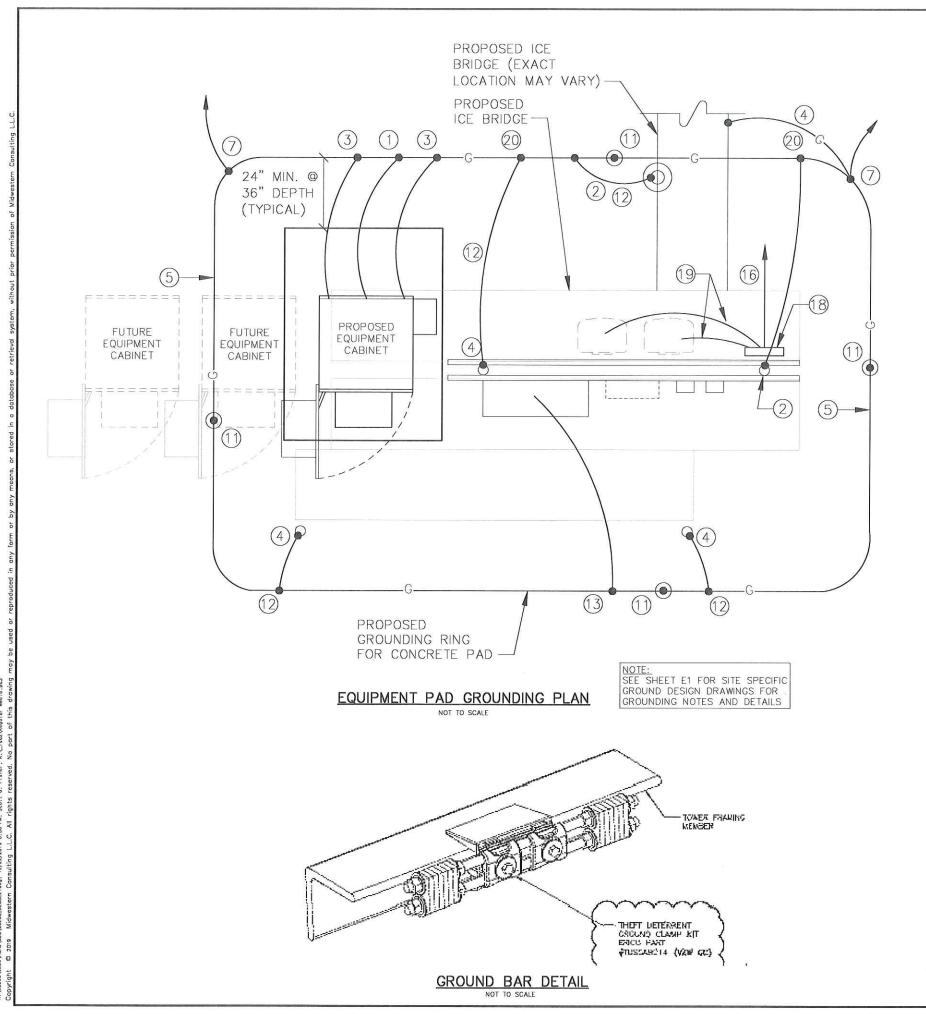


D W E

SITE

05268-6238 sev. nate (12/18/19)





LEGEND BBG BATTERY BAY GROUND CEPSG COAX ENTRY PROTECTION SYSTEM GROUND CG CABINET GROUND CABLE SUPPORT GROUND BURIED EXTERIOR ELECTRODE GROUND RING FENCE GROUND FUTURE TOWER WAVEGUIDE GROUND LEAD GROUNDING ELECTRODE SYSTEM (NEC DESIGNATION) GATE GROUND GROUND ROD ELECTRODE
ICE BRIDGE SUPPORT GROUND OVP GROUND BAR OVP GROUND LEAD OGB OGL OVP H-FRAME SUPPORT GROUND POWER ENTRANCE GROUND PAD CANOPY SUPPORT GROUND DOWN LEAD TOWER BASE GROUND TOWER WAVEGUIDE GROUND BAR UFER GROUND (PIER FOUNDATION) CABLE TO CABLE CADWELD CONNECTION

EQUIPMENT GROUNDING REFERENCE NOTES:

CONNECT THE 1-2/0 AWG INSULATED STRANDED COPPER GROUND WIRE TO THE BATTERY BAY GROUND. CONNECTION TO THE BURIED EXTERIOR ELECTRODE GROUND RING (EER) SHALL BE CADWELD. CONNECTION TO THE GROUND BAR IN THE BATTERY BAY SHALL BE MECHANICAL. ROUTE LEAD IN LIQUIDTIGHT FLEXIBLE NONMETALLIC CONDUIT.

(2) CEPSG: INSTALL THE THEFT DETERRENT GROUND POST ASSEMBLY FOR THE COAX ENTRY PROTECTION SYSTEM TO THE POST. CONNECT THE EER TO THE POST WITH 1 - 2 AWG BARE SOLID TINNED COPPER GROUND WIRE. THE CONNECTION TO THE POST SHALL BE CADWELD. REFER TO THE GENERAL INSTALLATION GUIDE AS SUPPLIED WITH THEFT DETERRENT POST MOUNT GROUND ASSEMBLY.

(3) cg: INSTALL 2 AWG BARE SOLID TINNED COPPER GROUND WIRE WITH TWO HOLE LONG BARREL LUGS, DRAGON TOOTH WASHERS AND #8 STAINLESS STEEL FASTENERS ON ALL EQUIPMENT CABINET EXTERIOR GROUND LOCATIONS (TYP. 2 PER CABINET). REMOVE ALL SURFACE PAINT AND USE ANTIOXIDENT COMPOUND BETWEEN METAL AND WASHER. ROUTE LEAD IN GALVANIZED FLEX CONDUIT CRIMPED TO LEAD AT 6" O.C. ALL LEADS SHALL BE DRESSED TO REDUCE TRIP HAZARDS. CONNECTION TO EER SHALL BE CADWELD.

4 CSG: INSTALL 1 - 2 AWG BARE SOLID TINNED COPPER GROUND WIRE FROM EER TO THE ICE BRIDGE CHANNEL. CONNECTION TO EER AND ICE BRIDGE CHANNEL SHALL BE CADWELD.

(5) EER: INSTALL 2 AWG BARE SOLID TINNED COPPER BURIED EXTERIOR ELECTRODE GROUND RING (EER) AROUND RADIO EQUIPMENT PAD AND TOWER BURIED AT 42" OR 6" BELOW FROST LINE (WHICHEVER IS GREATER). MAINTAIN 24" FROM EQUIPMENT PAD AND TOWER FOUNDATIONS MINIMUM.

6 FEG:

7 FG: INSTALL 1-2 AWG BAR SOLID TINNED COPPER GROUND WIRE FROM EER TO GROUNDING WIRE AROUND PERIMETER OF FENCED COMPOUND. CONNECTION BETWEEN WIRES SHALL BE CADWELD.

(1) GRE: INSTALL GROUND RODS TO 42" BELOW FINISH GRADE (OR 6" BELOW FROST LINE, WHICHEVER IS GREATER) AT A MINIMUM SPACING OF 10"-0" AROUND EQUIPMENT PAD, TOWER AND SITE EXTERIOR GROUND SYSTEM. CONNECTION TO EER SHALL BE CADWELD.

(12) IBSG: INSTALL 1 - 2 AWG BARE SOLID TINNED COPPER GROUND WIRE TO CONNECT EER TO ICE BRIDGE SUPPORT POST. CONNECTION TO EER AND ICE BRIDGE SUPPORT POST SHALL BE CADWELD.

INSTALL 1-2 AWG BARE SOLID TINNED COPPER GROUND WIRE TO THE INTEGRATED LOAD CENTER SWITCH. CONNECTION TO THE GROUND BAR SHALL BE MECHANICAL. ROUTE LEAD IN GALVANIZED FLEXIBLE METALLIC CONDUIT 13) PEG: CRIMPED TO LEAD AT 6" O.C. CONNECTION TO EER SHALL BE CADWELD.

(14) PCSG:

CONNECT THE THEFT DETERRENT GROUND ASSEMBLY KIT FOR THE TOWER WAVEGUIDE GROUND DIRECTLY TO THE (16) TWG: TOWER (SEE SITE SPECIFIC GROUNDING PLAN OF DESIGN DRAWINGS).

CONNECT THE THEFT DETERRENT GROUND ASSEMBLY KIT FOR THE RAYCAP GROUND DIRECTLY TO THE RAYCAP INSTALL 1 - 6 AWG GREEN INSULATED STRANDED COPPER GROUND WIRE FROM RAYCAP GROUND POINT TO RAYCAP

19 OGL: GROUND BAR (TYPICAL FOR EACH RAYCAP). CONNECTION TO GROUND BAR SHALL BE MECHANICAL.

INSTALL 1 - 2 AWG BARE SOLID TINNED COPPER GROUND WIRE FOR THE RAYCAP H-FRAME SUPPORT POST AND CONNECT TO THE EER. CONNECTION TO THE POST AND THE EER SHALL BE CADWELD. 20 OHG:

EQUIPMENT GROUNDING CONDUCTOR (NEC DESIGNATION) FIBER ENTRANCE GROUND GROUNDING ELECTRODE CONDUCTOR (NEC DESIGNATION)
GENERATOR ENCLOSURE GROUND GROUND ROD. CADWELD TO GROUNDING WIRE PROP. GROUNDING LINE PROP. GROUNDING LINE (CPAD ALTERNATE)

05268-6238 BRY, DATE STATE STA

MIDW

CELLCO PARTN dbo VERIZON 24242 NORTHI SOUTHFIELD, N

LAKE" AND. Zon

GILMORE TOWNSHIP, ISABELLA COI EQUIPMENT GROUNDING PLAN

