

CITY OF GROSSE POINTE WOODS, MICHIGAN
20025 Mack Plaza Dr.
Planning Commission Meeting
August 27, 2013
7:30 p.m.

1. **CALL TO ORDER**
2. **ROLL CALL**
3. **PLEDGE OF ALLEGIANCE**
4. **ACCEPTANCE OF AGENDA**
5. **RECOGNITION OF COUNCIL REPRESENTATIVE/S**
6. **APPROVAL OF MINUTES**
Planning Commission – 07/23/13
7. **PUBLIC HEARING UNDER THE PROVISIONS OF MICHIGAN COMPILED LAWS, SECTIONS 125.3101 THROUGH 125.3702 AS AMENDED, AND IN ACCORDANCE WITH GP WOODS CITY ORDINANCE SECTIONS 50-32, 50-34 AND 50-615, TO CONSIDER THE APPLICATION OF HALEY LAW FIRM PLC ON BEHALF OF SPRINT, REQUESTING SPECIAL LAND USE AND SITE PLAN APPROVAL TO CONSTRUCT A STEALTH WIRELESS FACILITY IN THE STEEPLE OF THE CROSSPOINTE CHRISTIAN CHURCH LOCATED AT 21336 MACK AVENUE, GROSSE POINTE WOODS.**
 - A. Application for Site Plan Review/Special Land Use - Hadley Law Firm c/o Sprint – 07/19/13
 - B. Project Summary – 07-19-13
 - C. 4 Photo Simulation Sheets (PS-1, PS-2, PS-3 & PS-4) – 08/07/13
 - D. 21 Project Site Plan Sheets (T-1, N-1, N-2, S-1, S-2, C-1, C-2, C-3, C-4, C-5, C-6, C-7, L-1, RF-1, E-1, E-2, E-3, E-4, E-5, PP-1 and PP-2) – 08/06/13
 - E. Planning Commission Excerpt – 07/23/13
 - F. Memo – 08/07/13 – Building Official (Tutag)
 - G. Resolution Recommending Denial – 08/27/13 - City Atty (C. Berschback)
 - H. Resolution Recommending Approval – 08/27/13 - City Atty (C. Berschback)
 - I. GPW Ordinance, Article VI, Wireless Communications Facilities, Sections 50-615 through 50-625
 - J. Affidavit of Legal Publication – 08/08/13
 - K. Affidavit of Property Owners Notified
8. **SCHEDULE A PUBLIC HEARING TO CONSIDER THE APPLICATION OF HALEY LAW FIRM PLC ON BEHALF OF AT&T MOBILITY FOR SPECIAL LAND USE AND SITE PLAN APPROVAL TO CONSTRUCT A WIRELESS COMMUNICATIONS FACILITY AT THE MILK RIVER LIFT STATION, 1190 PARKWAY DRIVE, GROSSE POINTE WOODS.**
Letter of Request – Haley Law Firm, PLC – 08/05/13

9. BUILDING OFFICIAL'S MONTHLY REPORT:

Building Department Report – July 2013

10. COUNCIL REPORT:

August - Hamborsky

11. INFORMATION ONLY: COUNCIL REPRESENTATIVE FOR NEXT MEETING:

September – Vacant (to be discussed)

12. NEW BUSINESS:

Sub-Committee Reports:

2020 Plan (Hamborsky/Vitale/Fuller/Gilezan)

Special Sign (Vaughn/Evola/Fuller/Stapleton)

13. PUBLIC COMMENT:

14. ADJOURNMENT:

Submitted by: Gene Tutag, Building Official

313-343-2426

**IN ACCORDANCE WITH PUBLIC ACT 267 (OPEN MEETINGS ACT) POSTED
AND COPIES GIVEN TO NEWSPAPERS**

Notice: The City of Grosse Pointe Woods will provide necessary, reasonable auxiliary aids and services, such as signers for the hearing impaired, or audio tapes of printed materials being considered at the meeting to individuals with disabilities. All such requests must be made at least five days prior to said meeting. Individuals with disabilities requiring auxiliary aids or services should contact the City of Grosse Pointe Woods by writing or calling the A.D.A. Coordinator or the City Clerk's office, 20025 Mack Plaza, Grosse Pointe Woods, MI 48236 (313) 343-2445; or Telecommunications Device for the Deaf (TDD) (313) 343-9249.

NOTE TO PETITIONERS:

Please make every effort to be present at the meeting so that public officials may get the benefit of your input on the matter before them.

PLANNING COMMISSION
07/23/13 – 019

MINUTES OF THE PLANNING COMMISSION OF THE CITY OF GROSSE POINTE WOODS HELD ON TUESDAY, JULY 23, 2013, IN THE COUNCIL-COURT ROOM OF THE MUNICIPAL BUILDING, 20025 MACK AVENUE, GROSSE POINTE WOODS, MICHIGAN.

The meeting was called to order at 7:34 p.m. by Chair Evola.

Roll Call: Chair Evola
Fuller, Gilezan, Hamborsky (7:35 p.m.), Vaughn, Vitale

Absent: Rozycki, Stapleton

Also Present: Building Official Tutag
Recording Secretary Babij Ryska

Motion by Vaughn, seconded by Fuller, that Commission Members Hamborsky, Rozycki, and Stapleton be excused from tonight's meeting.

MOTION CARRIED by the following vote:

YES: Evola, Fuller, Gilezan, Vaughn, Vitale
NO: None
ABSENT: Hamborsky, Rozycki, Stapleton

Motion by Vitale, seconded by Gilezan, that all items on tonight's agenda be received, placed on file, and taken in order of appearance.

MOTION CARRIED by the following vote:

YES: Evola, Fuller, Gilezan, Vaughn, Vitale
NO: None
ABSENT: Hamborsky, Rozycki, Stapleton

Motion by Vaughn, seconded by Gilezan, regarding **Approval of Minutes**, that the Planning Commission Meeting minutes dated June 25, 2013 be approved, as corrected.

MOTION CARRIED by the following vote:

YES: Evola, Fuller, Gilezan, Hamborsky, Vaughn, Vitale
NO: None
ABSENT: Rozycki, Stapleton

The next item on the agenda was the **Building Official's Monthly Report**. Mr. Tutag reported the following:

PLANNING COMMISSION

07/23/13 – 020

- Dr. Stonish will be applying for a site plan review to increase parking. Additionally, she will be doing some patio upgrades.
- There is still interest in the old Caribou site at 19419 Mack, will let the Commission when we know something.
- There is interest in Dr. Quinn property which is zoned mixed use, work will be done to the exterior of the building.
- Council authorized the addition of a part-time Code Enforcement/Administrative Clerk position in the Building Department. Karen will take the position leaving the other part-time Administrative Clerk open, will be hiring someone soon.
- Vacancy on Mack is about 8% which is good in comparison to some other communities.

Commission Member Gilezan gave the July 2013 Council Reports.

- June 1st: Nothing pertaining to the Planning Commission.
- June 15th: Second reading of the drive-thru ordinance.

Commission Member Hamborsky will attend the August Council meetings.

Under New Business the following items were discussed:

- Building Official Tutag stated that he received an application for a Wireless Communications Tower on the steeple of Crosspointe Church on Old Eight Mile, and recommended a public hearing be set for the next meeting.

Motion by Gilezan, seconded by Vaughn, that the Planning Commission schedule a **Public Hearing for the Sprint PCS Wireless Communications Tower Site Plan Review on August 27, 2013.**

MOTION CARRIED by the following vote:

YES: Evola, Fuller, Gilezan, Hamborsky, Vaughn, Vitale

NO: None

ABSENT: Rozycki, Stapleton

The following **Subcommittee Reports** were provided:

2020 Plan – Commission Member Hamborsky stated that the committee is still working on the final product for presentation to the Commission.

Special Sign Ordinance – Commission Member Vaughn stated that prior to meeting with the Mayor's Mack Avenue Business Study Committee, they will draft more specific proposals for review and may not meet again until September.

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Additional items discussed under New Business:

- Commission Member Vitale made inquiry of the communication between the City and DTE considering the amount of power outages and brown outs that happen in the City. Building Official Tutag assured the Commission that the City is in constant communications with DTE.
- Building Official Tutag stated that the Council transferred the Soil Erosion Program to the County. Since the change in legislation it is just not worth the City doing the inspections and issuing the permits.
- Building Official Tutag stated that due to heavy rainfall the Rivers Site Visit is rescheduled to next months meeting.

Motion by Vaughn, seconded by Gilezan, to adjourn at 8:13 p.m. Passed unanimously.

CITY OF GROSSE POINTE WOODS
Building Department
20025 Mack Plaza, Grosse Pointe Woods, MI 48236
(313) 343-2426

RECEIVED
JUL 19 2013
CITY OF GROSSE PTE. WOODS
BUILDING DEPT.

SITE PLAN REVIEW
SPECIAL LAND USE

COMMERCIAL - Zoned As - Please Check One:

() C - Commercial Business () RO-1 - Restricted Office () P-1 - Vehicular Parking
(X) CF - Community Facilities () C-2 - High Intensity City Ctr

Property Owner Name: CROSS POINTE CHURCH Date: _____

GPW Property Address: 21336 MACK AVE

Telephone #: Work SEE APPLICANT Home: SEE APPLICANT

Contractor/Applicant Name: SPRINT c/o HALEY LAW FIRM

Telephone # (517) 518-8623 Mobile Phone # (810) 772-1275 Fax # (517) 518-8639

Contractor/Applicant Address: 10059 BERGIN ROAD, HOWELL, MI e-mail: tgarrett@haleylawfirm

MI Builder's License #: _____ MI Driver's License #: 48843 G 630 792 447 020

Nature of Proposed Work:

SPRINT PROPOSES TO ADD ANTENNAS TO AN EXISTING SPIRE
AND SUPPORTING GROUND EQUIPMENT.

Value of Construction \$ 100,000

Section 23a of State Construction Code Act of 1972, No. 230 of the Public Acts of 1972, being Section 125.1523a of the Michigan Compiled Laws, prohibits a person from conspiring to circumvent the licensing requirements of the State relating to persons who are to perform work on a residential building or a residential structure. Violations of Section 23a are subject to civil fines.

Applicant Signature: _____

I hereby certify that the proposed work is authorized by the owner of record and that I have been authorized by the owner to make this application as his authorized agent and we agree to conform to all applicable laws of this jurisdiction.

#50-32(7)	Special Land Use PC Fee:	\$ 250
#50-42(a)	PC Site Plan Review Fee:	\$ 350
#50-42(b)(1)	Deposit - Est. Costs Incurred by the City:	\$ 400
PC APPLICATION FEE DUE:		\$ 1,000

Date Received: _____ Name: _____

**SPRINT PCS
REQUEST FOR SPECIAL LAND USE**

PROJECT SUMMARY

Project: Construction of a Sprint stealth wireless facility in
steeple of Crosspointe Christian Church
Parcel I.D.: 40-004-99-0001-000
Property Owner: Crosspointe Christian Church
Applicant: Sprint PCS by Haley Law Firm PLC
Zoning Required: Special Land Use¹

Sprint PCS ("Sprint") is applying for a Special Land Use under Article VI, Wireless Communication Facilities, Sec 50-615 et. seq. of the City's Zoning Ordinance. Sprint has entered into a lease with Crosspointe Christian Church for construction of a stealth wireless facility in the steeple of the Church. The antennas will be placed on the existing crevices of the steeple and will be painted to match the steeple. This site will provide much needed coverage to the residents of Grosse Pointe Woods. Below is a photo of the Church and the steeple.



¹ Sprint is making this application for special use based upon the letter received from the City stating that Public Act 143 does not apply because this is not an "existing wireless facility" as defined under the Act. The City's position totally ignores the plain language of the Act which provides that collocation on an existing wireless communications support structure "means a structure that is designed to support, or is capable of supporting, wireless communications equipment including a monopole, self-supporting lattice tower, guyed tower, water tower, utility pole or building. By filing for special land use, Sprint expressly does not waive its rights under PA 143 and in the event that this site fails to receive special land use, Sprint reserves the right to argue that PA143 controls its application and that the City has failed to properly process and approve its application under the Act.

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CITY OF GROSSE PTE. WOODS
BUILDING DEPT.

1. The current wireless environment

Sprint is improving its network quality to provide the best possible coverage and service to its customers. Coverage areas and network capacity must be expanded to handle the growing number of calls and wireless data usage. This means new wireless facilities are needed to ensure reliable service.

- There are over 322 million wireless subscribers in the United States as of June 2011.
- In Michigan, in 2006, the number of wireless phones exceeded the number of land lines for the first time.
- Over 24% of US Households have substituted landline telephone service with mobile wireless service.
- 40% of 18-34 year olds use the wireless phone as their only phone.
- 88 million mobile device owners used their device to access the internet in 2008.
- Wireless users placed over **290,000 Enhanced 911 calls per day** in 2009, amounting to approximately **70% of all E911 calls.**⁷
- Wireless users rely on wireless devices to report medical emergencies, crimes, and fires at home, at work, and everywhere in between.
- Over 29% of U.S. households utilize a wireless device as their sole E911 access device.
- U.S. wireless consumers used almost 1.15 trillion minutes in the first half of 2011 (or more than 6 billion per day).

Public safety relies on wireless services:

- First responders require robust high-speed wireless communications to deliver voice, video, and data services to save lives, prevent and solve crimes, and fight fires.
- A majority of public safety agencies across the country utilize wireless broadband services for critical activities such as dispatching, connecting to law enforcement databases while in the field, and emergency alerting.
- Wireless users placed over **290,000 Enhanced 911 calls per day** in 2009, amounting to approximately **70% of all E911 calls.**⁷
- Wireless users rely on wireless devices to report medical emergencies, crimes, and fires at home, at work, and everywhere in between.
- Wireless services improve response times and enhance safety by ensuring lines of communication with dispatch and mission command.
- Mobile text alerts allow local, state, and federal public safety agencies to provide critical information to the public before, during, and after emergencies.
- The inability of a wireless user to connect to a network because of a lack of infrastructure endangers both citizens and first responders.

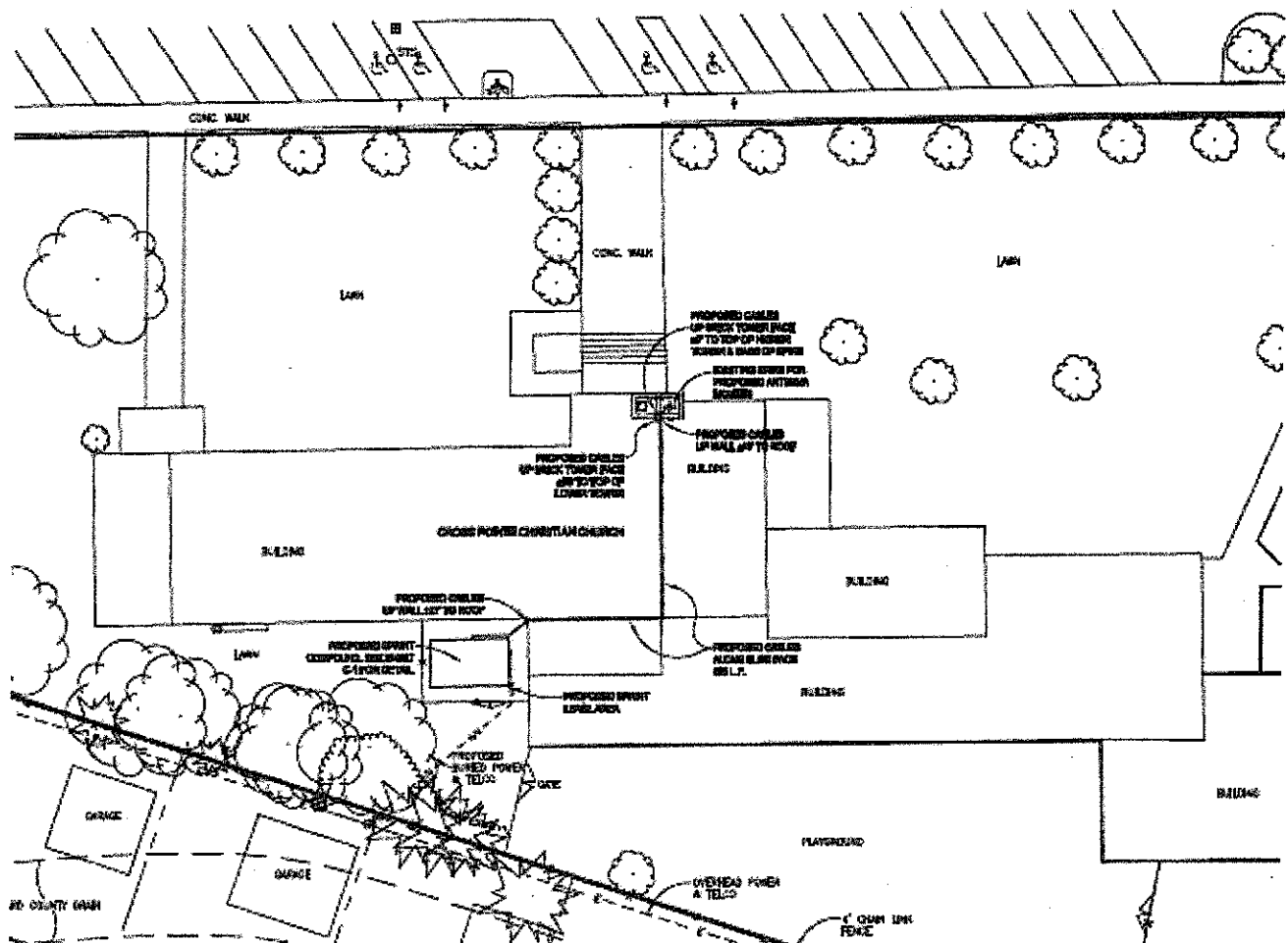
What these statistics mean is that the wireless network of just five years ago is not adequate to handle the amount of calls made today. Wireless facilities need to be located where people use their wireless phones. As customers increasingly use their wireless phones at home, SPRINT must add additional capacity and coverage to its network to handle the increasing call and data volume in residential areas.

The need for a new site is driven by customer demand for reliable service. The Radio Frequency Engineer conducts a thorough analysis of the existing network for signal strength. This includes monitoring the amount of signal traffic at the existing wireless facilities for dropped and blocked calls. When the existing network is overburdened or existing sites are too far apart, the call will drop or not connect. It has been determined that more antennas are necessary in this area to provide in building coverage and handle additional capacity in the area.

Sprint gives priority to collocating on existing facilities or tall structures, such as a water tank or in this case, a church steeple. Using existing facilities is always the most desired option because it results in the lowest impact on surrounding neighborhoods and is much less costly.

2. The site

The proposed wireless site will consist of antennas attached to the steeple of the church and support equipment placed on the ground at the rear of the church. See below for schematic of the location.



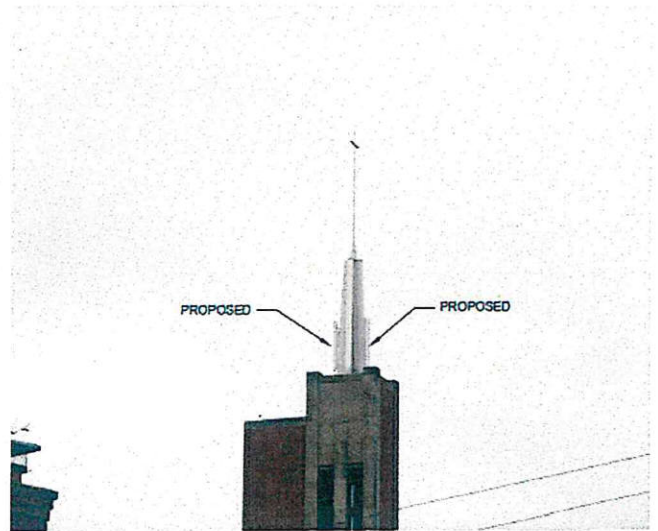
The ground equipment is to be placed at the rear of the church and existing landscaping between the church and neighboring residences provides complete screening of the ground facility.



A set of photosims is provided with this submittal. Below is the north elevation as it currently exists and with the proposed antennas.



LOOKING NORTH EXISTING
NOT TO SCALE



LOOKING NORTH PROPOSED
NOT TO SCALE

4. The Need for the Site

The coverage objective for this site is to provide both street level and in building coverage to this area. Attached to this summary are radio propagation maps detailing the existing coverage and the coverage once the site is "on air". The existing coverage map clearly shows that there is a large coverage gap in this area. Implementing this site, will provide much needed coverage to that area.

5. Sprint's responses to the standards of the City's wireless ordinance;

Pursuant to the City's wireless ordinances a number of standards must be met for approval of this facility. Each item of the ordinance is addressed separately by its numbered paragraph or section number. However, the primary concern of the City is whether the proposed facility meets the "Purpose" of its wireless ordinance to that end, in Section A below, the purpose section of the ordinance is duplicated below along with the Applicant's discussion of how this facility meets with that purpose. In Section B, the applicable individual requirements of the wireless ordinance are addressed.

Section A. The Purpose Section (Sec 50-615(b)1)

(1) Permit the location of wireless communications facilities (WCFs) in non-residential areas and residential areas on non-residential property;

Response: The proposed site is on a non-residential property but it is zoned residential. As is encouraged by the City's ordinance. It is an existing structure and its use as a wireless facility will not require construction of a new tower.

(2) Protect residential areas and land uses from the potential adverse impact of WCFs;

Response: As the photo simulations demonstrate, the antennas will be attached to the church steeple and will be nearly invisible to the neighboring area.

(3) Strongly encourage the joint use of existing WCF sites, prominent buildings or structures as a primary location rather than construction of additional single or multiple use WCFs;

Response: Sprint's site acquisition personnel always look to existing structures first for siting of wireless facilities. The church steeple is such a structure.

(4) Minimize the total number of WCFs throughout the community;

Response: Utilizing an existing structure minimizes the total number of wireless facilities in the community.

(5) Require users of WCFs to locate them in areas where the adverse impact on the community is minimal;

Response: A stealth facility such as attachment to the church steeple provides no adverse impact on the community.

(6) Encourage users of WCFs to configure them (stealth technology) in a way that minimizes the adverse visual impact of the towers and antennas through careful design, siting, landscape screening, and innovative camouflaging techniques;

Response: As discussed above, the proposed site is a stealth facility where antennas are attached to the church steeple and painted to match that steeple.

(7) Consider the public health, safety and welfare as well as the safety aspect of WCFs;

Response: As discussed above, the facility is designed to provide coverage to the residents of the City. Consistent and reliable cell phone coverage is no longer a luxury but it is expected. The use of wireless phones to meet and respond to emergencies is well documented. Over half of the 911 calls are made with cellular phones.

(8) Enhance the ability of the providers of telecommunications services to provide services to the community quickly, effectively, and efficiently;

Response: There is a significant coverage gap in the Sprint service for this area. The construction of the facility will meet not only Sprint's radio frequency objectives, but the City's resident's wireless needs.

(9) Provide for the disclosure of adequate information about plans for wireless communication facilities in order to permit the city to effectively plan for the location of such facilities;

Response: This is the only site currently proposed in the City. The propagation maps provided as part of this submittal show Sprint's surrounding facilities.

(10) Avoid potential damage to adjacent properties from WCF failure through engineering and careful siting of towers;

Response: The proposed site is a stealth facility and will have no effect on adjacent properties.

(11) Limit inappropriate physical and aesthetic overcrowding of land use activities and avoid adverse impact upon existing population, transportation systems, and other public services and facility needs;

Response: The proposed stealth facility has no effect on existing population, transportation systems or other public services. In fact it enhances public safety by providing 911 coverage.

(12) Minimize the adverse impacts of technological obsolescence of WCFs, including a requirement to remove unused and/or unnecessary WCFs in a timely manner as hereinafter set forth;

Response: The removal of the facility is covered under the contract between the Church and Sprint.

(13) Minimize the negative visual impact of WCFs on neighborhoods, community landmarks, historical sites and buildings, natural beauty areas and public rights-of-way. This contemplates the establishment of as few structures as reasonably feasible; utilization of collocation wherever feasible; the use of towers which are designed for compatibility; the avoidance of lattice structures that are unsightly; and consideration of alternative means of providing service such a cable microcell network using multiple low-powered transmitters/receivers attached to existing wireless systems, fiber optic or similar systems which do not require a tower.

Response: The stealth design of this site shields the neighboring residences from adverse visual affects of the facility. There are no historical sites or natural beauty areas that will be affected by this site. Also, the use of low-powered facilities do not provide the coverage to the City's residents nor do they meet Sprint's coverage objectives. These type of facilities are best employed inside buildings such as Ford Field and Joe Louis Arena to provide coverage to that stand alone facility.

Section B. Wireless Requirements of The Purpose Section (Sec 50-619(c); 50-620 and 50-621

Section 50-619(c) Required information in WCF application.

(1) A site plan prepared by an architect and engineer, both licensed in the state, shall be prepared and submitted, showing the location, size, screening and design of all buildings and structures, including fences, signage, camouflage, lighting, appearance of facility, and outdoor equipment, all of which shall be designed to conform to applicable building codes and zoning ordinances.

Response: Site plans meeting this requirement are submitted separately.

(2) The site plan shall also include a detailed landscaping plan. The purpose of landscaping is to provide screening and aesthetic enhancement for the WCF base, accessory buildings and enclosure.

Response: The existing landscaping screens the ground equipment from neighboring residences. Any additional landscaping would not change the current screening.

(3) The application shall include a signed certification by an engineer licensed in the state with regard to the manner in which the existing or proposed WCF would fall under the most catastrophic conditions. The engineer's notes, drawings, and actual calculations will be included with the signed certification. This certification will be utilized, along with other criteria, in determining the appropriate setback to be required for the tower and other buildings, structures, and facilities.

Response: This is not applicable in that the steeple is an existing structure. A structural analysis will be provided to the building department at the time of building permit application.

(4) The application shall include a description of security to be posted with the city at the time of receiving a WCF authorization permit for the WCF to ensure maintenance, repair and removal of the facility, as provided in this article. In this regard, the security shall, at the election of the city, be in the form of:

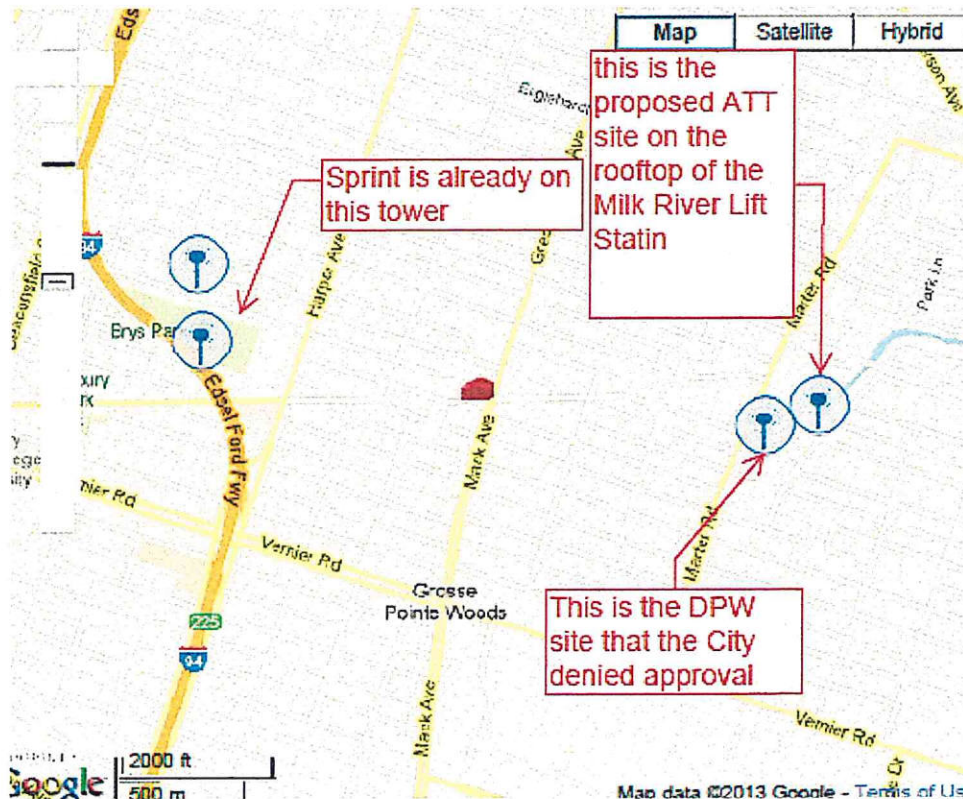
- a. Cash;
- b. Irrevocable surety bond;
- c. Irrevocable letter of credit; or
- d. At the city's option, an agreement in a form approved by the city attorney and recordable at the office of the register of deeds, establishing a promise of the applicant and property owner to maintain, repair or remove the WCF in a timely manner as required by this article, with the further provision that the applicant and property owner shall be responsible for the payment of any costs and attorneys fees incurred by the city in securing maintenance, repair or removal, and any costs and attorney fees shall become a lien against the property if not paid in full when due.

Response: This provision appears to provide for situations in which a tower is being constructed. However, Sprint is not building a new tower. If the facility is no longer being used then Sprint will be required to remove their equipment because the church would no longer be receiving revenue from it.

(5) The application shall also include the following information to demonstrate the need for the proposed WCF:

- a. A map showing existing and known proposed WCFs within the city, and further showing existing and known proposed WCFs within areas surrounding the borders of the city, which are relevant in terms of potential collocation or in demonstrating the need for the proposed facility. If and to the extent the information in question is on file with the city, the applicant shall be required only to update as needed.

Response: Below is a copy of the map obtained by applicant showing existing towers in the area. The closest tower is over a mile away.



b. Factual evidence supporting the need for the WCF, including justification for its height and an evaluation of alternative designs which could result in lower heights or eliminate the need for the WCF or related structures.

Response: As discussed above, propagation maps showing coverage gaps are provided.

c. Soil reports from a state-licensed geotechnical engineer if the application involves towers. The soil report shall include soil boring results and statements confirming the suitability of soil conditions for the proposed use.

Response: This section is not applicable.

d. A report certified by a state-licensed engineer describing the collocation capabilities of the proposed WCF.

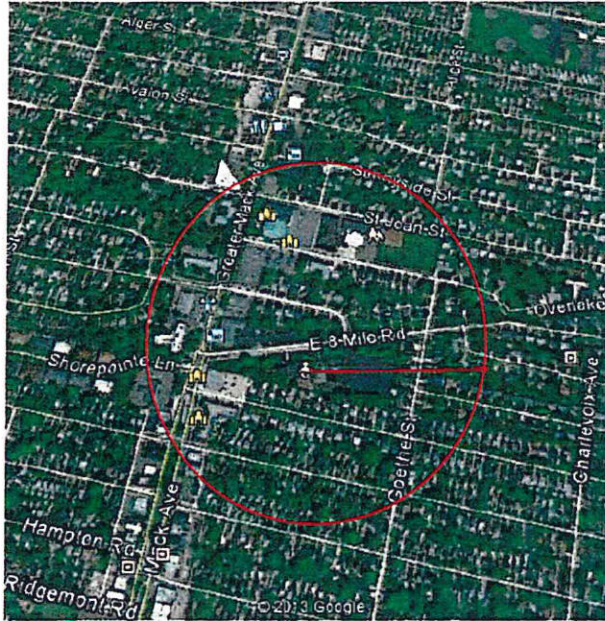
Response: This question is meant to be used to analyze the structural capability of a new tower to hold multiple users.

e. A drawing detailing the setback distance from residential areas and showing compliance with the setback requirements of this article.

Response: This is a stealth facility and the support structure already exists.

f. A description of the surrounding area and property uses within 1,000 feet of the proposed location.

Response: The properties surrounding the site are shown below:



The above circle approximates 1000 feet from the site and the uses would be a mix of residential, commercial and high traffic corridor.

g. Factual evidence detailing the impact of the facility on the location of future WCFs.

Response: Sprint is unclear as to exactly what the city wishes as a response to this question. Need for future facilities are predicated on growth of the use of the system. At the present time, this is the only site proposed for the City.

(6) A report of a state-licensed engineer, which certifies the tower constructionally accommodates the number of shared users proposed by the applicant.

Response: Not applicable.

(7) A maintenance plan and agreement as required by sections 50-620 and 50-623.

Response: This is covered contractually with the landlord in the lease. As this is an attachment to an existing structure with minimal effect on the surrounding area, no maintenance plan should be needed.

(8) A removal agreement signed by both the owner of the property and the applicant which states that they promise to be bound by the removal requirements of this article.

Response: This point was addressed above.

(9) The name, address and phone number of the person to contact for engineering, maintenance and other notice purposes. This information shall be continuously updated during all times the WCF is on the premises.

Response: This information will be provided to the City at time of issuance of building permit.

(10) The application fee, as established by the city council, as well as the fee required by section 50-33. **Response: Provided**

(11) Proof of liability insurance of the type and amount as established by the city administrator. **Response: Liability insurance and coverage limits are provided contractually in the lease;**

(12) A copy of a signed agreement between the land owner and the applicant, giving the applicant the right to construct and operate the WCF, and to permit future collocation at the WCF as required by the city. The owner or duly authorized representative of all ownership interest in the land on which the WCF is proposed to be located shall sign the application and certify that the appropriate legally recordable property rights have been obtained by the applicant.

Response: The lease between the parties is a confidential document – if the city desire an excerpt of the lease detailing Sprint's rights to construct and operate the facility, that can be provided. The application is signed by owner and Sprint's representative;

(13) A copy of all executed agreements between the owner of the WCF and the applicant which will use the WCF, and between the applicant and any other party that the applicant requires the permission of or a license from in order to operate or use the WCF, including such agreements as are required to permit future collocation at the proposed WCF, as required by the city.

Response: Not applicable;

(14) A collocation agreement executed by the owner of the proposed WCF and applicant permitting collocation at the proposed WCF, as required by the city, together with such other agreements as the city may deem necessary to permit future collocation, including those described in subsections (c)(11) and (12) of this section. Such agreement shall include an agreement to provide information about the WCF to persons interested in collocating on the WCF and to charge market rates for collocation on the WCF.

Response: Not applicable;

(15) A certification by the owner of the proposed WCF and applicant that the WCF complies with all federal, state statutes, regulations and rules, and all city article.

Response: Sprint agrees to follow all applicable federal, state and location laws and regulations.

(16) A certification signed by the owners of the WCF and applicant that all franchises and licenses required by federal, state or local law for the construction and/or operation of a WCF in the city have been obtained and they shall file a copy of all required franchises and licenses with the planning commission.

Response: Sprint has obtained all necessary licenses from the FCC to construct and operate this facility; no franchise is required for the site.

(17) Evidence that no existing tower, structure or alternative technology is available which would otherwise accommodate the applicant's proposed need, as provided in section 50-621(6).

Response: Sprint is utilizing an existing structure.²

² It is ironic that the City does not recognize PA 143 when its very own ordinance requires proof that you cannot go on an existing structure which is exactly the purpose of and is consistent with the definitions of PA 143.

(18) Evidence of the noise levels to be emitted by the WCF when in operation. Levels above 70 decibels shall not be permitted.

Response: The only noise from the site will be the air conditioning system of the ground shelter and is consistent with a residential air conditioner and will not exceed the 70db limit.

(19) The application shall be signed by the owner of the proposed WCF and applicant.
(Code 1997, § 98-537; Ord. No. 778, 6-17-2002)

Response: The application is signed by Wallace Haley of the Haley Law Firm on behalf of Sprint.

Sec. 50-620. Authorization as special land use.

(a) Circumstances allowing special land use treatment.

(1) Subject to all the standards and conditions set forth in this article, WCFs may be allowed as a special land use. In addition, though municipally owned land is exempt from the terms and conditions of this chapter, the city intends to apply these same terms and conditions (as well as any others that may be appropriate) when and if wireless communications providers request the opportunity to negotiate a lease for the siting of WCFs including towers, poles, antennas and other equipment on municipally owned land.

Response: As discussed previously, Sprint believes that this site is a permitted use under PA 143 but has applied for special use, but does not waive its rights under PA 143.

(2) In the following circumstances, a proposal to establish a new WCF shall be considered as a special land use:

- a. If, at the time of the submittal, the applicant can demonstrate that there is no reasonable means of satisfying the service needs of the system through adaptation of or addition to facilities inside or outside the municipal boundaries of the city;
- b. If there is no feasible alternative or other means of satisfying the service needs, such as a microcell cable link or utilization of other lines, cables, facilities, or systems that would have less visual impact or would obviate the necessity of installing a tower or ATS;
- c. If any such WCF shall be of a design such as (without limitation) a steeple, bell tower, or other form which is compatible with the existing character of the proposed site, neighborhood and general area; and
- d. If the WCF is capable of supporting collocation of other WCFs to the extent determined by the city council, and if appropriate agreements are in place to permit collocation.

Response: As discussed in greater detail above, Sprint states that 1) no enhancements can be made to its existing system to remedy the large gap in coverage; 2) there are no other towers or suitable support structures that will satisfy Sprint's RF objectives; 3) no microcell application will meet their objectives; 4) Sprint is utilizing an existing structure and is employing a stealth design of its antennas, and; 4) due to the limitations of the existing structure the proposed facility will not support collocation.

(b) *Additional conditions for permit.* If the conditions of subsection (a) of this section are satisfied, then a WCF may be permitted in the city as a special land use, upon recommendation of the planning commission and approval by the city council following public hearing as set forth in subsection (c) of this section, subject to the conditions and procedures set forth elsewhere in this chapter, and also subject to the following:

(1) *General design and appearance.* The planning commission and city council shall, in their discretion, with respect to the design and appearance of a tower, ATS and all accessory buildings,

require construction which creates harmony with the surrounding area, minimizes distraction, reduces visibility, maximizes aesthetic appearance, and ensures compatibility with surroundings.

Response: The attachment of antennas to the church steeple is consistent architecturally with the steeple and is compatible with the surrounding area as well.

(2) *Federal and state standards.* Any WCF shall comply with all applicable federal and state standards relative to the environmental and safety effects of radio frequency emissions, as confirmed by submission by the applicant of a certification of compliance from an engineer licensed in the state.

Response: Sprint agrees to comply with federally mandated requirements regarding radio frequency emissions.

(3) *Accessory buildings.* Any accessory building must comply with section 50-526 (entitled "accessory buildings"), other applicable ordinances of the city (for example, design standards) and the following specific requirements:

- a. The building must be limited to the maximum allowable height for accessory structures and shall be no larger than necessary to accommodate the equipment and accessories.
- b. Any accessory building must be located underground unless:
 1. The accessory building is contained totally inside an existing building;
 2. The applicant demonstrates to the satisfaction of the building official that an underground location is not technically feasible; or
 3. The building official allows the accessory building to be placed on a roof of a nonresidential building subject to other conditions and requirements of this article.
- c. Any accessory building located on a roof must be architecturally compatible with the principal building as determined by the building official, and must not be visible from ground level.
- d. All users of a WCF must use the same accessory building. Accordingly, any accessory building must be constructed to allow for expansion if necessary to assure that all operators use one accessory building in the event of collocation.
- e. Accessory buildings located on the ground must be constructed of brick, with gabled roof and appropriate fencing and landscaping.

Response: Sprint is not employing an accessory building.

(4) *Access.* There shall be unobstructed access to the WCF, for operation, maintenance, repair and inspection purposes, which may be provided through or over an easement. This access shall have a width and location determined by such factors as:

- a. The location of adjacent thoroughfares and traffic and circulation within the site;
- b. Utilities needed to service the WCF and any attendant facilities;
- c. The location of buildings and parking facilities;
- d. Proximity to residential districts and minimizing disturbance to the natural landscape; and
- e. The type of equipment which will need to access the site.

Response: Provided.

(5) *Lot splits.* The division of property for the purpose of locating a wireless communication facility is prohibited unless all zoning requirements and conditions are met. No existing utilities shall be disrupted or interfered with except temporarily as may be required during construction and only then if a written agreement has been procured from the city and the utility company.

Response: Not applicable

(6) *Maintenance plan.* A maintenance plan, and any applicable maintenance agreement, shall be presented and approved as part of the site plan for the proposed facility. Such plan shall be designed to ensure long term, continuous maintenance to a reasonably prudent standard. At a minimum it will address anticipated maintenance needs for the facility, including frequency of service, personnel needs, equipment needs, access plans, and traffic, noise and safety impacts of such maintenance.

Response: Maintenance is provided for in the lease with landlord. A copy of that portion of the lease can be provided to the City.

(7) *Towers and antennas.* All towers and antennas included in the WCF must satisfy the requirements of section 50-621.

Response: No response needed.

(8) *Signs.* No signs shall be allowed on any WCF, including any antenna or tower, except safety or warning signs approved by the city.

Response: Sprint agrees to comply with this requirement.

(9) *Transmission lines.* Transmission lines to any WCF shall be underground.

Response: Sprint agrees to comply with this requirement.

(10) *FAA, FCC and MAC requirements.* Any requirements of the Federal Aviation Administration, Federal Communications Commission, and Michigan Aeronautics Commission shall be complied with. WCFs, including any towers and/or antennas shall not be artificially lighted, unless specifically required by the FAA or other applicable authority. If lighting is required, the lighting alternatives, and design chosen shall cause the least disturbance to the surrounding views.

Response: Due to an attachment to the existing steeple at a height lower than the top, this section is not applicable.

(c) *Procedures for scheduling public hearings.* RNo response is required to this section.

(1) *No variance required.* If the application as submitted does not require a variance, the following procedure shall be used for scheduling of public hearings:

a. The application will be submitted to the planning commission for a public hearing and recommendation.

b. The application shall be submitted to the city council for public hearing and either approval, approval with conditions, or denial.

(2) *Variance required.* If the application as submitted requires a variance, the following procedure will be used for scheduling of public hearings:

a. Submission to the planning commission for a recommendation.

b. Review by the zoning board of appeals for consideration of the variance request as specified in article II, division 5 of this chapter. If the zoning board of appeals denies the request for a variance, the application approval process is terminated. If the request for a variance is approved, then the process proceeds to subsection (c)(2)c of this section.

c. Review by the planning commission for recommendation.

d. Review by the city council for either approval, approval with conditions or denial.

(Code 1997, § 98-538; Ord. No. 778, 6-17-2002)

Sec. 50-621. Towers and antennas.

All towers and antennas shall comply with the following requirements:

(1) Towers shall be designed to blend into natural settings and surrounding buildings and, subject to any applicable FAA standards, shall be a neutral color approved by the city.

Response: not applicable.

(2) Any support system, including the tower and ATS, shall be designed by a state-licensed structural design engineer, shall be constructed in accordance with all applicable building codes and shall include the submission of a soil report from a state licensed geotechnical engineer.

Response: not applicable;

(3) Setback for towers. Any tower must be set back a sufficient distance from any property line to protect adjoining property from potential facility failure by being large enough to accommodate to complete failure on site. Additional setback requirements are as follows:

a. Setback from residential. The setback from a lot used for residential purposes will be measured from the base of the tower to the nearest lot line of any lot used for residential purposes. The setback from lots used for residential purposes must be at least 300 percent of the total height of the structure and in no event less than 200 feet.

Response: Not applicable due to existing structure.

b. Setback from public rights-of-way. The setback from public rights-of-way must be at least equal to the height of the tower.

Response: Not applicable.

c. Setback from nonresidential buildings. The setback from nonresidential buildings must be at least equal to the height of the tower as measured from the base of the tower to the affected building. Additional reasonable setbacks may be required depending on the proposed site.

Response: Not applicable.

(4) Multiple towers shall not be permitted on a single site.

Response: Not applicable.

(5) State or federal requirements. All towers, antennas, and ATSs must meet or exceed current standards and regulations of the FAA, the FCC, and any other agency of the state or federal government with the authority to regulate towers, antennas, and support structures. If such standards and regulations are changed, then the owners of the towers and antennas governed by this article shall bring such towers and antennas into compliance with such revised standards and regulations within six months of the effective date of such standards and regulations, unless a different compliance schedule is mandated by the controlling state or federal agency. Failure to bring towers, antennas, and ATSs into compliance with such revised standards and regulations shall constitute grounds for the removal of the tower, antenna or ATS at the applicant's expense.

Response: Sprint agrees to comply with applicable state and federal requirements.

(6) No new tower, antenna, or ATS shall be permitted unless the applicant demonstrates to the city council after receipt of a recommendation from the planning commission that no existing tower, structure, or alternative technology is available which would otherwise accommodate the applicant's proposed antenna or need, or the city council, after receipt of a recommendation of the planning commission, determines that any collocation of the proposed antenna would have a greater impact on

the community than the proposed new tower. Evidence submitted to demonstrate that no existing tower, structure or alternative technology can accommodate the applicant's proposed antenna or need may consist of the following:

- a. No existing tower or structures are located within the geographic area which meet applicant's engineering requirements.
- b. Existing towers or structures are not of sufficient height to meet applicant's engineering requirements and cannot be reasonably modified to accomplish same.
- c. Existing towers or structures do not have sufficient structural strength to support applicant's proposed antenna and related equipment, and cannot be reasonably modified to accomplish applicant's needs.
- d. The applicant's proposed antenna would cause electromagnetic interference with the antenna on the existing towers or structures, or the antenna on the existing towers or structures would cause interference with the applicant's proposed antenna.
- e. The applicant demonstrates that an alternative technology that does not require the use of towers or structures, such as cable, microcell network using multiple low-powered transmitters/receivers attached to a wireless system, etc., is unsuitable. Costs of alternative technology which exceed new tower or antenna development shall not be presumed to render the technology unsuitable.

Response: These requirements have been addressed above.

(7) Towers shall be no higher than required for reasonable communication, but in no event greater than 100 feet.

Response: Sprint is utilizing an existing structure.

(8) Towers shall be enclosed by security fencing when required by the city which shall be not less than six feet in height, nor more than eight feet in height, and shall otherwise comply with the city's articles regulating fences for the zoning district in which the tower is located.

Response: not applicable.

(9) The tower shall be equipped with an appropriate anticleimbing device.

Response: not applicable

(10) The following requirement shall govern the landscaping surrounding a tower provided, however, that the planning commission may alter these requirements in such cases that would better serve the goals of this article:

- a. The tower facility shall be landscaped with a buffer of plant materials that effectively screens the view of the tower base from adjacent properties and in no event shall be less than six feet in height.
- b. Existing mature tree growth and natural land forms on the site shall be preserved to the maximum extent possible.

Response: This was addressed previously. The existing fencing and evergreens provide screening for the site;

(11) attached wireless communication facilities, antenna, and supporting electrical and mechanical equipment installed on an ATS must be of a neutral color that is identical to, or closely compatible with, the color of the ATS so as to make the antenna and related equipment as visually unobtrusive as possible.

Response: N/A

(12) The antenna and other attachments on a WCF shall be designed and constructed to include the minimum attachments required to operate the facility as intended at the site, both in terms of number and size of such attachments, and shall be designed and constructed to maximize aesthetic quality.

Response: Sprint is utilizing a four (4) antenna configuration which is the minimum it can use and still meet its coverage objectives.

(13) Separation. Towers may not be closer than 1,500 feet as measured from the base of each tower or ATS. Tower separation distances shall be calculated and applied to WCFs located in the city, as compared to a WCF located in the city or outside the city, irrespective of municipal and county jurisdictional boundaries.

Response: not applicable

(14) Any antenna which is attached to an ATS or other structure shall not extend above the highest point of the structure unless not visible from the ground and must comply with all applicable building code requirements.

Response: N/A

(15) If the antenna is on the roof of a structure, it shall be set back from the edge of the roof by a distance at least equal to its height, measured from where it is attached to the roof to the highest point of the antenna.

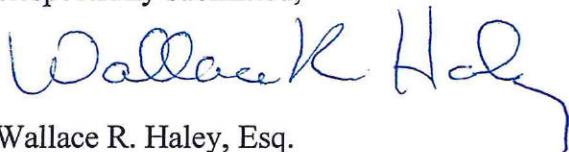
Response: N/A

(16) Attached WCFs and antenna installed on an ATS shall incorporate the vertical design elements of the structure to which they are attached or to the ATS and, if on the roof of any structure, shall match existing roof structures, such as air conditioning units, stairs and elevator support structures.

Response: The antennas will be painted to match the existing steeple design.

Without this site, Sprint's customer service level will be inadequate which may ultimately cause a loss of customers and market share.

Respectfully submitted,

A handwritten signature in blue ink that reads "Wallace R. Haley". The signature is fluid and cursive, with the first name "Wallace" and last name "Haley" clearly distinguishable.

Wallace R. Haley, Esq.
HALEY LAW FIRM, PLC

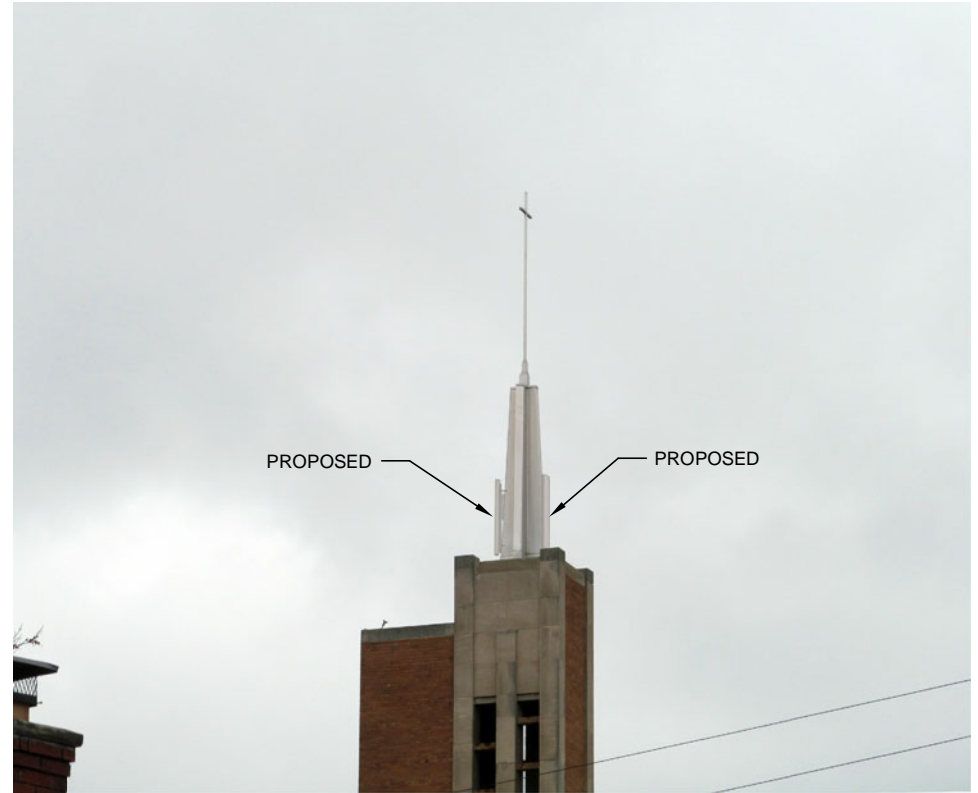
10059 Bergin Road
Howell, MI 48843
(517) 518 8623

CROSS POINTE CHURCH DE81XC020



LOOKING NORTH EXISTING

NOT TO SCALE



LOOKING NORTH PROPOSED

NOT TO SCALE



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CROSS POINTE CHURCH DE81XC020

21336 MACK AVENUE
GROSSE POINTE WOODS, MI

PHOTO SIMULATIONS

SHEET NUMBER **PS-1**

Job: 1231202
Date: 12/26/12
Scale: N/A
Drawn: T.C.M.
Chk'd.: M.T.M.



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CROSS POINTE CHURCH DE81XC020



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LOOKING WEST PROPOSED

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CROSS POINTE CHURCH DE81XC020

21336 MACK AVENUE
GROSSE POINTE WOODS, MI

PHOTO SIMULATIONS

SHEET NUMBER **PS-2**

Job: 1231202
Date: 12/26/12
Scale: N/A
Drawn: T.C.M.
Chk'd.: M.T.M.



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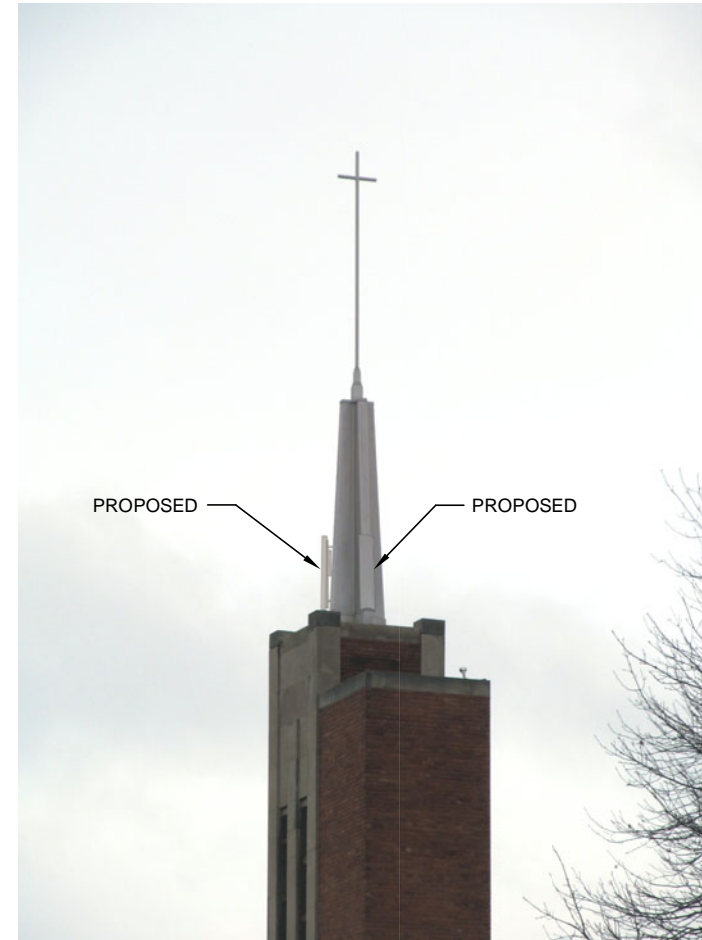
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PHOTO SIMULATIONS

SHEET NUMBER **PS-3**

Job: 1231202
Date: 12/26/12
Scale: N/A
Drawn: T.C.M.
Chk'd.: M.T.M.



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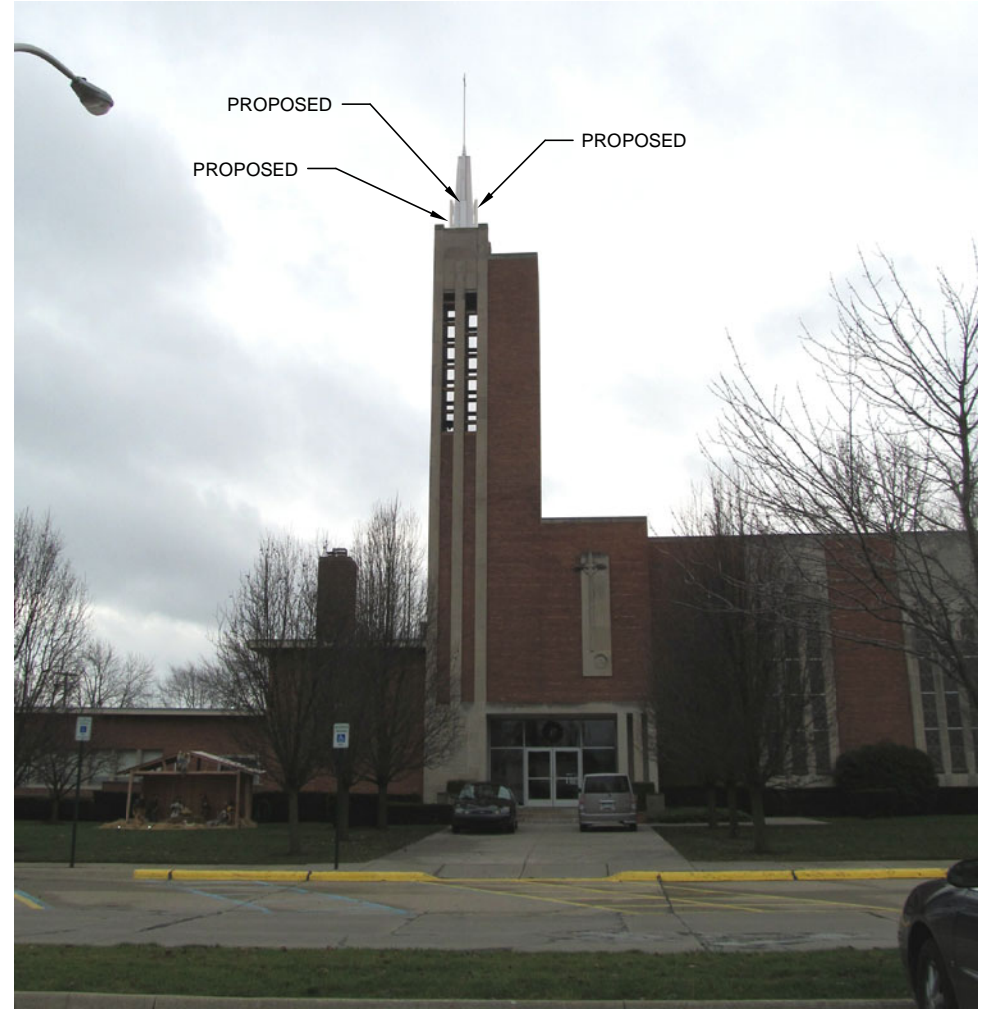
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CROSS POINTE CHURCH DE81XC020



LOOKING SOUTH EXISTING

NOT TO SCALE



LOOKING SOUTH PROPOSED

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CROSS POINTE CHURCH DE81XC020

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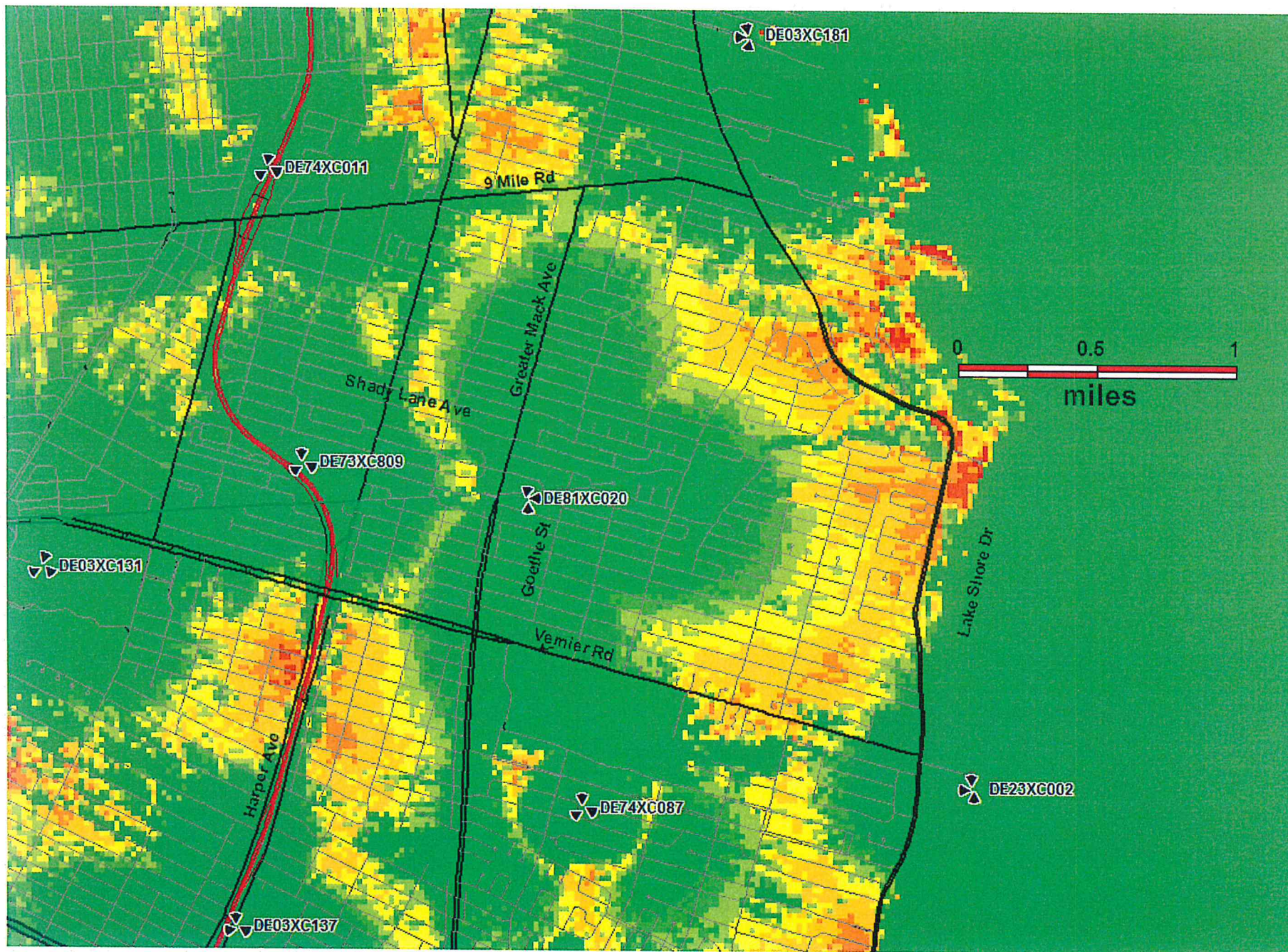
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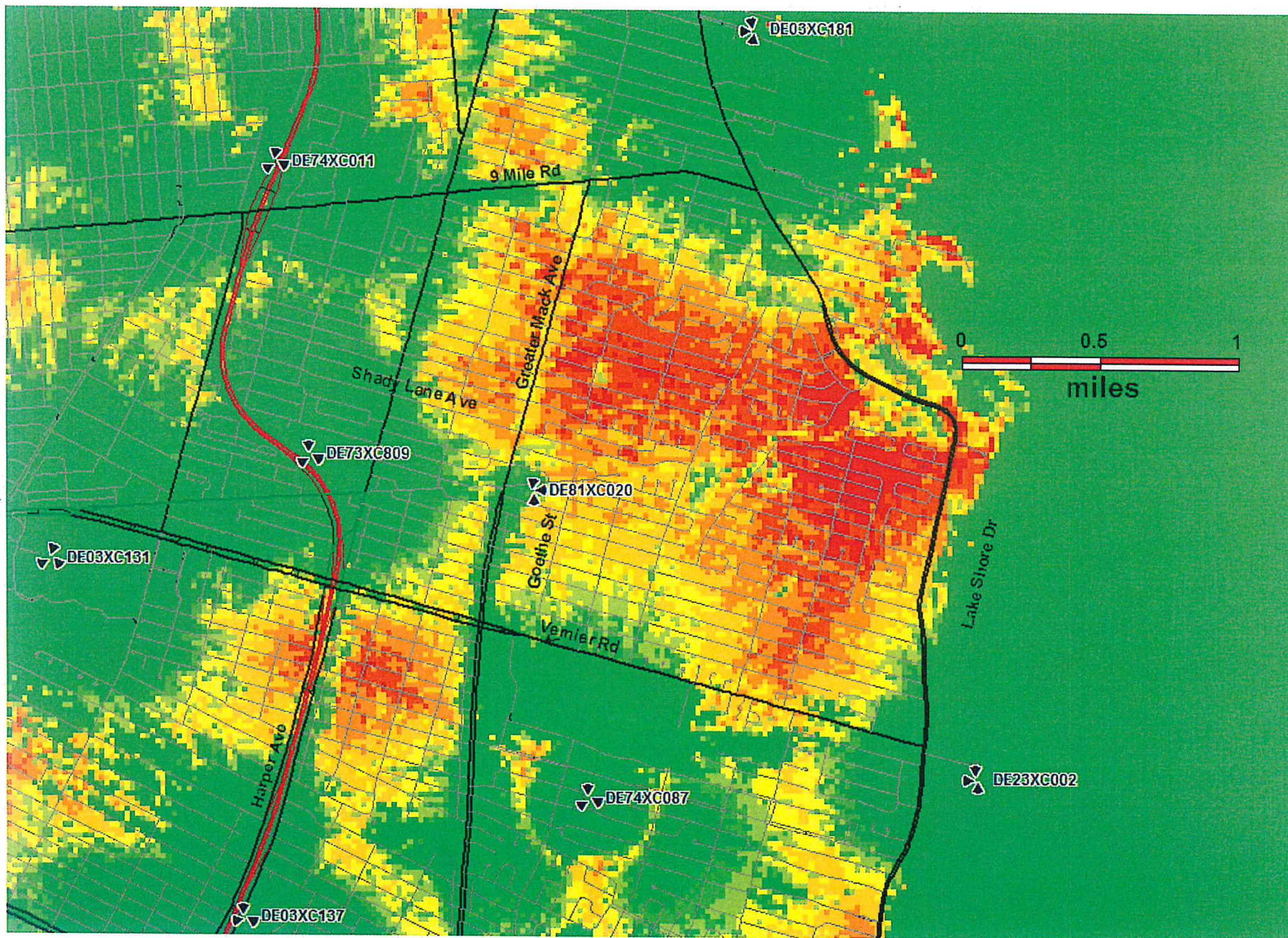
Job: 1231202
Date: 12/26/12
Scale: N/A
Drawn: T.C.M.
Chk'd.: M.T.M.



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GENERAL CONSTRUCTION NOTES

1. ALL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE LOCAL BUILDING CODE, THE LATEST EDITION AND ALL OTHER APPLICABLE CODES AND ORDINANCES.
2. CONTRACTOR SHALL CONSTRUCT SITE IN ACCORDANCE WITH THESE DRAWINGS AND SPRINT INTEGRATED CONSTRUCTION STANDARDS FOR WIRELESS SITES (LATEST REVISION). THE SPECIFICATION IS THE RULING DOCUMENT AND ANY DISCREPANCIES BETWEEN THE SPECIFICATION AND THESE DRAWINGS SHOULD BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO PROCEEDING WITH CONSTRUCTION.
3. CONTRACTOR SHALL VISIT THE JOB SITE AND SHALL FAMILIARIZE HIMSELF WITH ALL CONDITIONS AFFECTING THE PROPOSED WORK AND SHALL MAKE PROVISIONS AS TO THE COST THEREOF, FIELD CONDITIONS AND DIMENSIONS AND CONFIRMING THAT THE WORK MAY BE ACCOMPLISHED AS SHOWN PRIOR TO PROCEEDING WITH CONSTRUCTION. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO THE COMMENCEMENT OF WORK. NO COMPENSATION WILL BE AWARDED BASED ON CLAIM OF LACK OF KNOWLEDGE OF FIELD CONDITIONS.
4. PLANS ARE NOT TO BE SCALED. THESE PLANS ARE INTENDED TO BE A DIAGRAMMATIC OUTLINE ONLY UNLESS OTHERWISE NOTED. THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT AND APPURTENANCES, AND LABOR NECESSARY TO EFFECT ALL INSTALLATIONS AS INDICATED ON THE DRAWINGS.
5. DIMENSIONS SHOWN ARE TO FINISH SURFACES UNLESS OTHERWISE NOTED. SPACING BETWEEN EQUIPMENT IS REQUIRED CLEARANCE. THEREFORE, IT IS CRITICAL TO FIELD VERIFY DIMENSIONS, SHOULD THERE BE ANY QUESTIONS REGARDING THE CONTRACT DOCUMENTS, EXISTING CONDITIONS AND/OR DESIGN INTENT, THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING THE WORK.
6. DETAILS ARE INTENDED TO SHOW DESIGN INTENT. MODIFICATIONS MAY BE REQUIRED TO SUIT JOB DIMENSIONS OR CONDITIONS, AND SUCH MODIFICATIONS SHALL BE INCLUDED AS PART OF THE WORK.
7. CONTRACTOR SHALL RECEIVE CLARIFICATION IN WRITING, AND SHALL RECEIVE IN WRITING AUTHORIZATION TO PROCEED BEFORE STARTING WORK ON ANY ITEMS NOT CLEARLY DEFINED OR IDENTIFIED BY THE CONTRACT DOCUMENTS.
8. CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK USING THE BEST CONSTRUCTION SKILLS AND ATTENTION. CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES AND FOR COORDINATING ALL PORTIONS OF THE WORK UNDER CONTRACT, UNLESS OTHERWISE NOTED.
9. CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFETY OF THE WORK AREA, ADJACENT AREAS AND BUILDING OCCUPANTS THAT ARE LIKELY TO BE AFFECTED BY THE WORK UNDER THIS CONTRACT. WORK SHALL CONFORM TO ALL OSHA REQUIREMENTS.
10. CONTRACTOR SHALL COORDINATE HIS WORK WITH THE SUPERINTENDENT OF BUILDINGS & GROUNDS AND SCHEDULE HIS ACTIVITIES AND WORKING HOURS IN ACCORDANCE WITH THE REQUIREMENTS.
11. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING HIS WORK WITH THE WORK OF OTHERS AS IT MAY RELATE TO RADIO EQUIPMENT, ANTENNAS AND ANY OTHER PORTIONS OF THE WORK.
12. INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS UNLESS SPECIFICALLY OTHERWISE INDICATED OR WHERE LOCAL CODES OR REGULATIONS TAKE PRECEDENCE.
13. MAKE NECESSARY PROVISIONS TO PROTECT EXISTING SURFACES, EQUIPMENT, IMPROVEMENTS, PIPING ETC. AND IMMEDIATELY REPAIR ANY DAMAGE THAT OCCURS DURING CONSTRUCTION.
14. IN DRILLING HOLES INTO CONCRETE WHETHER FOR FASTENING OR ANCHORING PURPOSES, OR PENETRATIONS THROUGH THE FLOOR FOR CONDUIT RUNS, PIPE RUNS, ETC., MUST BE CLEARLY UNDERSTOOD THAT REINFORCING STEEL SHALL NOT BE DRILLED INTO, CUT OR DAMAGED UNDER ANY CIRCUMSTANCES (UNLESS NOTED OTHERWISE). LOCATIONS OF REINFORCING STEEL ARE NOT DEFINITELY KNOWN AND THEREFORE MUST BE SEARCHED FOR BY APPROPRIATE METHODS AND EQUIPMENT.
15. REPAIR ALL EXISTING WALL SURFACES DAMAGED DURING CONSTRUCTION SUCH THAT THEY MATCH AND BLEND IN WITH ADJACENT SURFACES.
16. SEAL PENETRATIONS THROUGH FIRE RATED AREAS WITH U.L. LISTED AND FIRE CODE APPROVED MATERIALS.
17. KEEP CONTRACT AREA CLEAN, HAZARD FREE, AND DISPOSE OF ALL DIRT, DEBRIS, AND RUBBISH. EQUIPMENT NOT SPECIFIED AS REMAINING ON THE PROPERTY OF THE OWNER SHALL BE REMOVED. LEAVE PREMISES IN CLEAN CONDITION AND FREE FROM PAINT SPOTS, DUST, OR SMUDGES OF ANY NATURE. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL ITEMS UNTIL COMPLETION OF CONSTRUCTION.
18. MINIMUM BEND RADIUS OF ANTENNA CABLES SHALL BE IN ACCORDANCE WITH CABLE MANUFACTURERS RECOMMENDATIONS.
19. ALL EXISTING INACTIVE SEWER, WATER, GAS, ELECTRIC AND OTHER UTILITIES, WHICH INTERFERE WITH THE EXECUTION OF THE WORK, SHALL BE REMOVED AND/OR CAPPED, PLUGGED OR OTHERWISE DISCONTINUED AT POINTS WHICH WILL NOT INTERFERE WITH THE EXECUTION OF THE WORK, SUBJECT TO THE APPROVAL OF THE ENGINEER.
20. CONTRACTOR SHALL MINIMIZE DISTURBANCE TO EXISTING SITE DURING CONSTRUCTION. EROSION CONTROL MEASURES, IF REQUIRED DURING CONSTRUCTION SHALL BE IN CONFORMANCE WITH JURISDICTIONAL OR STATE AND LOCAL GUIDELINES FOR EROSION AND SEDIMENT CONTROL AND COORDINATED WITH LOCAL REGULATORY AUTHORITIES.
21. LIGHT SHADED LINES AND NOTES REPRESENT WORK PREVIOUSLY DONE. DARK SHADED LINES AND NOTES REPRESENT THE SCOPE OF WORK FOR THIS PROJECT. CONTRACTOR SHALL VERIFY IF EXISTING CONSTRUCTION IS COMPLETE. CONTRACTOR SHALL NOTIFY ENGINEER OF ANY EXISTING CONDITIONS THAT DEViate FROM THE DRAWINGS PRIOR TO BEGINNING CONSTRUCTION.
22. CONTRACTOR SHALL SECURE ALL NECESSARY PERMITS AND/OR WIRING CERTIFICATES REQUIRED FOR THE ELECTRICAL SERVICE UPGRADE. IN ADDITION, CONTRACTOR SHALL PROVIDE ALL NECESSARY COORDINATION AND SCHEDULING WITH THE SERVING ELECTRICAL UTILITY AND LOCAL INSPECTION AUTHORITIES.

ELECTRICAL NOTES

1. ELECTRICAL CONTRACTOR SHALL SUPPLY AND INSTALL ANY/ALL ELECTRICAL WORK INDICATED. ANY/ALL CONSTRUCTION SHALL BE IN ACCORDANCE W/DRAWINGS AND ANY/ALL APPLICABLE SPECIFICATIONS. IF ANY PROBLEMS ARE ENCOUNTERED BY COMPLYING WITH THESE REQUIREMENTS, CONTRACTOR SHALL NOTIFY 'CONSTRUCTION MANAGER' AS SOON AS POSSIBLE, AFTER THE DISCOVERY OF THE PROBLEMS, AND SHALL NOT PROCEED WITH THAT PORTION OF WORK, UNTIL THE 'CONSTRUCTION MANAGER' HAS DIRECTED THE CORRECTIVE ACTIONS TO BE TAKEN.
2. ELECTRICAL CONTRACTOR SHALL VISIT THE JOB SITE AND FAMILIARIZE HIMSELF WITH ANY/ALL CONDITIONS AFFECTING ELECTRICAL AND COMMUNICATION INSTALLATION AND MAKE PROVISIONS AS TO THE COST THEREOF. ALL EXISTING CONDITIONS OF ELECTRICAL EQUIP., LIGHT FIXTURES, ETC., THAT ARE PART OF THE FINAL SYSTEM, SHALL BE VERIFIED BY THE CONTRACTOR, PRIOR TO THE SUBMITTAL OF HIS BID. FAILURE TO COMPLY WITH THIS PARAGRAPH WILL IN NO WAY RELIEVE CONTRACTOR OF PERFORMING ALL WORK NECESSARY FOR A COMPLETE AND WORKING SYSTEM.
3. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST EDITION OF THE NEC AND ALL CODES AND LOCAL ORDINANCES OF THE LOCAL POWER & TELEPHONE COMPANIES HAVING JURISDICTION AND SHALL INCLUDED BUT NOT BE LIMITED TO:

A. UL --- UNDERWRITERS LABORATORIES
B. NEC --- NATIONAL ELECTRICAL CODE
C. NEMA --- NATIONAL ELECTRICAL MANUFACTURERS ASSOC.
D. OSHA --- OCCUPATIONAL SAFETY AND HEALTH ACT
E. IBC --- INTERNATIONAL BUILDING CODE
F. NFPA --- NATIONAL FIRE CODES

4. DO NOT SCALE ELECTRICAL DRAWINGS, REFER TO SITE PLANS AND ELEVATIONS FOR EXACT LOCATIONS OF ALL EQUIPMENT, AND CONFIRM WITH 'CONSTRUCTION MANAGER' ANY SIZES AND AND LOCATIONS WHEN NEEDED.
5. EXISTING SERVICES: CONTRACTOR SHALL NOT INTERRUPT EXISTING SERVICES WITHOUT WRITTEN PERMISSION OF GDIT.
6. CONTRACTOR SHALL PAY FOR ANY/ALL PERMITS, FEES, INSPECTIONS AND TESTING. CONTRACTOR IS TO OBTAIN PERMITS AND APPROVED SUBMITTALS PRIOR TO THE WORK BEGINNING OR ORDERING EQUIPMENT.
7. THE TERM "PROVIDE" USED IN CONSTRUCTION DOCUMENTS AND SPECIFICATIONS, INDICATES THAT THE CONTRACTOR SHALL FURNISH AND INSTALL.
8. CONTRACTOR SHALL CONFIRM WITH LOCAL UTILITY COMPANY ANY/ALL REQUIREMENTS SUCH AS THE: LUG SIZE RESTRICTIONS, CONDUIT ENTRY, SIZE OF TRANSFORMERS, SCHEDULED DOWNTIME FOR THE OWNERS' CONFIRMATION, ETC. ANY/ALL CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF THE CONSTRUCTION MANAGER, PRIOR TO BEGINNING ANY WORK.
9. MINIMUM WIRE SIZE SHALL BE #12 AWG, NOT INCLUDING CONTROL WIRING, UNLESS NOTED OTHERWISE. ALL CONDUCTORS SHALL BE COPPER WITH THWN INSULATION.
10. OUTLET BOXES SHALL BE PRESSED STEEL IN DRY LOCATIONS, CAST ALLOY WITH THREADED HUBS IN WET/DAMP LOCATIONS AND SPECIAL ENCLOSURES FOR OTHER CLASSIFIED AREAS.
11. IT IS NOT THE INTENT OF THESE PLANS TO SHOW EVERY MINOR DETAIL OF THE CONSTRUCTION. CONTRACTOR IS EXPECTED TO FURNISH AND INSTALL ALL ITEMS FOR A COMPLETE ELECTRICAL SYSTEM AND PROVIDE ALL REQUIREMENTS FOR THE EQUIPMENT TO BE PLACED IN PROPER WORKING ORDER.
12. ELECTRICAL SYSTEM SHALL BE AS COMPLETELY AND EFFECTIVELY GROUNDED, AS REQUIRED BY SPECIFICATION, SET FORTH BY SPRINT.
13. ALL WORK SHALL BE PERFORMED BY A LICENSED ELECTRICAL CONTRACTOR IN A FIRST CLASS, WORKMANLIKE MANNER. THE COMPLETED SYSTEM SHALL BE FULL OPERATIVE AND SUBJECT TO REGULATORY INSPECTION AND APPROVAL BY CONSTRUCTION MANAGER.
14. ALL WORK SHALL BE COORDINATED WITH OTHER TRADES TO AVOID INTERFERENCE WITH THE PROGRESS OF CONSTRUCTION.
15. CONTRACTOR SHALL GUARANTEE ANY/ALL MATERIALS AND WORK FREE FROM DEFECTS OR A PERIOD OF NOT LESS THAN TWO YEARS FROM DATE OF CUSTOMER ACCEPTANCE.
16. THE CORRECTION OF ANY DEFECTS SHALL BE COMPLETED WITHOUT ANY ADDITIONAL CHARGE AND SHALL INCLUDE THE REPLACEMENT OF THE REPAIR OF ANY OTHER PHASE OF THE INSTALLATION, WHICH MAY HAVE BEEN DAMAGED THEREIN.
17. ADEQUATE AND REQUIRED LIABILITY INSURANCE SHALL BE PROVIDED FOR PROTECTION AGAINST PUBLIC LOSS AND ANY/ALL PROPERTY DAMAGE FOR THE DURATION OF WORK.
18. PROVIDE AND INSTALL CONDUIT, CONDUCTORS, PULL WIRES, BOXES, COVER PLATES AND DEVICES FOR ALL OUTLETS AS INDICATED.
19. DITCHING AND BACK FILL: CONTRACTOR SHALL PROVIDE FOR ALL UNDERGROUND INSTALLED CONDUIT AND/OR CABLES INCLUDING EXCAVATION AND BACKFILLING AND COMPACTION. REFER TO NOTES AND REQUIREMENTS, EXCAVATION, AND BACKFILLING.
20. MATERIALS, PRODUCTS AND EQUIPMENT, INCLUDING ALL COMPONENTS THEREOF, SHALL BE NEW AND SHALL APPEAR ON THE LIST OF U.L. APPROVED ITEMS AND SHALL MEET OR EXCEED THE REQUIREMENTS OF THE NEC, NEMA AND IEEE.
21. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS OR MANUFACTURES CATALOG INFORMATION OF ANY/ALL LIGHTING FIXTURES, SWITCHES AND ALL OTHER ELECTRICAL ITEMS FOR APPROVAL BY THE CONSTRUCTION MANAGER PRIOR TO INSTALLATION.
22. ANY CUTTING OR PATCHING DEEMED NECESSARY FOR ELECTRICAL WORK IS THE ELECTRICAL CONTRACTORS RESPONSIBILITY AND SHALL BE INCLUDED IN THE COST FOR WORK AND PERFORMED TO THE SATISFACTION OF THE 'CONSTRUCTION MANAGER' UPON FINAL ACCEPTANCE.
23. THE ELECTRICAL CONTRACTOR SHALL LABEL ALL PANELS WITH ONLY TYPEWRITTEN DIRECTORIES. ALL ELECTRICAL WIRING SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR.
24. DISCONNECT SWITCHES SHALL BE H.P. RATED HEAVY-DUTY, QUICK-MAKE AND QUICK-BREAK ENCLOSURES, AS REQUIRED BY EXPOSURE TYPE.
25. ALL CONNECTIONS SHALL BE MADE WITH A PROTECTIVE COATING OF AN ANTI-OXIDE COMPOUND SUCH AS "NO-OXIDE A" BY DEARBORNE CHEMICAL CO. COAT ALL WIRE SURFACES BEFORE CONNECTING. EXPOSED COPPER SURFACES, INCLUDING GROUND BARS, SHALL BE TREATED -- NO SUBSTITUTIONS.
26. RACEWAYS: CONDUIT SHALL BE SCHEDULE 40 PVC MEETING OR EXCEEDING NEMA TC2 -- 1990. CONTRACTOR SHALL PLUG AND CAP EACH END OF SPARE AND EMPTY CONDUITS AND PROVIDE TWO SEPARATE PULL STRINGS -- 200 LBS TEST POLYETHYLENE CORD. ALL CONDUIT BENDS SHALL BE A MINIMUM OF 2 FT. RADIUS. RGS CONDUITS WHEN SPECIFIED, SHALL MEET UL-6 FOR GALVANIZED STEEL. ALL FITTINGS SHALL BE SUITABLE FOR USE WITH THREADED RIGID CONDUIT. COAT ALL THREADS WITH 'BRITE ZINC' OR 'GOLD CALY'.
27. SUPPORT OF ALL ELECTRICAL WORK SHALL BE AS REQUIRED BY NEC.
28. CONDUCTORS: CONTRACTOR SHALL USE 98% CONDUCTIVITY COPPER WITH TYPE THWN INSULATION, 600 VOLT, COLOR CODED. USE SOLID CONDUCTORS FOR WIRE UP TO AND INCLUDING NO. 8 AWG. USE STRANDED CONDUCTORS FOR WIRE ABOVE NO. 8 AWG.
29. CONNECTORS FOR POWER CONDUCTORS: CONTRACTOR SHALL USE PRESSURE TYPE INSULATED TWIST-ON CONNECTORS FOR NO. 10 AWG AND SMALLER. USE SOLDERLESS MECHANICAL TERMINAL LUGS FOR NO. 8 AWG AND LARGER.
30. SERVICE: 240/120V, SINGLE PHASE, 3 WIRE CONNECTIONS AVAILABLE FROM UTILITY COMPANY. OWNER OR OWNERS AGENT WILL APPLY FOR POWER.
31. TELEPHONE SERVICE: CONTRACTOR SHALL PROVIDE EMPTY CONDUITS WITH MULE TAPE AS INDICATED ON DRAWINGS.
32. ELECTRICAL AND TELCO RACEWAYS TO BE BURIED A MINIMUM OF 2' DEPTH.
33. CONTRACTOR SHALL PLACE TWO LENGTHS OF WARNING TAPE AT A DEPTH OF 12" BELOW GROUND AND DIRECTLY ABOVE ELECTRICAL AND TELCO SERVICE CONDUITS. CAUTIONS TAPE TO READ "CAUTION BURIED ELECTRIC" OR "BURIED TELECOM".
34. ALL BOLTS SHALL BE STAINLESS STEEL.

ANTENNA & COAX NOTES

1. VERIFY EACH HYBRID CABLE LENGTH, DIAMETER, ROUTING, COLOR CODING AND ALL APPURTENANCES WITH GDIT.
2. THE HYBRID CABLE LENGTH AND CORRESPONDING CABLE DIAMETER IS SHOWN ON SHEET A-4. THIS CABLE LENGTH IS TO BE USED FOR FABRICATION OR CONSTRUCTION. ACTUAL ANTENNA CABLE LENGTH(S) MUST BE VERIFIED. CABLES SHALL BE PROVIDED BY GDIT.
3. ALL HYBRID CABLES SHALL UTILIZE GROUND KITS, GROUNDED AS FOLLOWS:

A. NEAR ANTENNA RAD CENTER ELEVATION.
B. MIDDLE OF TOWER (MID-HEIGHT OF ANTENNA), IF CABLE RUN IS OVER 200',
C. BOTTOM OF TOWER,
D. AT MASTER GROUND BAR 3'-0" FROM MMBS--BBU CABINET

4. ALL TOP JUMPERS SHALL BE LENGTHS AS SHOWN AND INSTALLED BY CONTRACTOR.
5. ALL MAIN CABLES SHALL BE COLOR CODED AS SHOWN ON SHEET RF-1 AND IN ACCORDANCE WITH SPRINT SPECIFICATIONS.
6. BANDING SHALL BE IN ACCORDANCE WITH SHEET A-4, RF-1 AND AS FOLLOWS:

A. MAIN LINE COLOR BANDS SHALL BE 2" WIDE. MAINTAIN 1" SPACING BETWEEN COLORS.
B. FREQUENCY COLOR BANDS SHALL BE 2" WIDE WITH NO SPACE BETWEEN COLORS.
C. JUMPER COLOR BANDS SHALL BE 1" WIDE WITH 1" SPACE.
D. START COLOR BANDS 2" BEYOND WEATHERPROOFING.
E. START SELECTOR COLOR NEXT TO END CONNECTORS.
7. FINAL COAXIAL ANTENNA CABLE SIZES SHALL BE DETERMINED BY SAMSUNG RF ENGINEER. SEE ANTENNA SCHEDULE SHEET A-4. BASED ON FINAL CABLE RUN LENGTHS DETERMINED BY GD.
8. SEE CONSTRUCTION MANAGER FOR ANTENNA SUPPORT ASSEMBLY TYPE.
9. ALL COAXIAL CABLE WILL BE SECURED TO THE DESIGNED SUPPORT STRUCTURE AT DISTANCES NOT TO EXCEED 3' OR THE CABLE MANUFACTURES SPECIFICATIONS WHICHEVER IS LESS, WITH HARDWARE SPECIFIED IN THE COAXIAL CABLE ROUTING DETAILS OF THE SUPPLIED STRUCTURAL REPORT.
10. PROVIDE AT LEAST 6" OF SLACK IN THE MAIN COAXIAL CABLES AT THE ANTENNA MOUNTING ELEVATION TO PROVIDE FOR FUTURE CONNECTOR REPLACEMENT.

SITE WORK NOTES

1. DO NOT EXCAVATE OR DISTURB BEYOND THE PROPERTY LINES OR LEASE LINES, UNLESS OTHERWISE NOTED.
2. DO NOT SCALE BUILDING DIMENSIONS FROM DRAWING.
3. SIZE, LOCATION AND TYPE OF ANY UNDERGROUND UTILITIES OR IMPROVEMENTS SHALL BE ACCURATELY NOTED AND PLACED ON AS-BUILT DRAWINGS BY GENERAL CONTRACTOR AND ISSUED TO ARCHITECT/ENGINEER AT COMPLETION OF PROJECT.
4. ALL EXISTING UTILITIES, FACILITIES, CONDITIONS AND THEIR DIMENSIONS SHOWN ON PLANS HAVE BEEN PLOTTED FROM AVAILABLE RECORDS. THE ENGINEER AND OWNER ASSUME NOT RESPONSIBILITY WHATSOEVER AS TO THE SUFFICIENCY OR ACCURACY OF THE INFORMATION SHOWN ON THE PLANS OR THE MANNER OF THEIR REMOVAL OR ADJUSTMENT. CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING EXACT LOCATION OF ALL EXISTING UTILITIES AND FACILITIES PRIOR TO START OF CONSTRUCTION. CONTRACTOR SHALL ALSO OBTAIN FROM EACH UTILITY COMPANY DETAILED INFORMATION RELATIVE TO WORKING SCHEDULES AND METHODS OF REMOVING OR ADJUSTING EXISTING UTILITIES.
5. CONTRACTOR SHALL VERIFY ALL EXISTING UTILITIES BOTH HORIZONTALLY AND VERTICALLY PRIOR TO START OF CONSTRUCTION. ANY DISCREPANCIES OR DOUBTS AS TO THE INTERPRETATION OF PLANS SHALL BE IMMEDIATELY REPORTED TO THE ARCHITECT/ENGINEER FOR RESOLUTION AND INSTRUCTION, AND NO FURTHER WORK SHALL BE PERFORMED UNTIL THE DISCREPANCY IS CHECKED AND CORRECTED BY THE ARCHITECT/ENGINEER. FAILURE TO SECURE SUCH INSTRUCTION MEANS CONTRACTOR WILL HAVE WORKED AT HIS/HER OWN RISK AND EXPENSE.
6. CONTRACTOR SHALL CALL LOCAL DIGGER HOT LINE FOR UTILITY LOCATIONS 48 HOURS PRIOR TO START OF CONSTRUCTION.
7. ALL NEW AND EXISTING UTILITY STRUCTURES ON SITE AND IN AREAS TO BE DISTURBED BY CONSTRUCTION SHALL BE ADJUSTED TO FINISH ELEVATIONS PRIOR TO FINAL INSPECTION OF WORK.
8. GRADING OF THE SITE WORK AREA IS TO BE SMOOTH AND CONTINUOUS IN SLOPE AND IS TO FEATHER INTO EXISTING GRADES AT THE GRADING LIMITS.
9. ALL TEMPORARY EXCAVATIONS FOR THE INSTALLATION OF FOUNDATIONS, UTILITIES, ETC., SHALL BE PROPERLY LAID BACK OR BRACED IN ACCORDANCE WITH CORRECT OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) REQUIREMENTS.
10. STRUCTURAL FILLS SUPPORTING PAVEMENTS SHALL BE COMPACTED TO 95% OF MAXIMUM STANDARD PROCTOR DRY DENSITY.
11. NEW GRADES NOT IN BUILDING AND DRIVEWAY IMPROVEMENT AREA TO BE ACHIEVED BY FILLING WITH APPROVED CLEAN FILL AND COMPACTED TO 95% OF STANDARD PROCTOR DENSITY.
12. ALL FILL SHALL BE PLACED IN UNIFORM LIFTS. THE LIFTS THICKNESS SHOULD NOT EXCEED THAT WHICH CAN BE PROPERLY COMPACTED THROUGHOUT ITS ENTIRE DEPTH WITH THE EQUIPMENT AVAILABLE.
13. ANY FILLS PLACED ON EXISTING SLOPES THAT ARE STEEPER THAN 10 HORIZONTAL TO 1 VERTICAL SHALL BE PROPERLY BENCHED INTO THE EXISTING SLOPE AS DIRECTED BY A GEOTECHNICAL ENGINEER.
14. CONTRACTOR SHALL CLEAN ENTIRE SITE DAILY SUCH THAT NO PAPERS, THRASH, WEEDS, BRUSH OR ANY OTHER DEPOSITS WILL REMAIN. ALL MATERIALS COLLECTED DURING CLEANING OPERATIONS SHALL BE DISPOSED OF OFF-SITE BY THE GENERAL CONTRACTOR.
15. ALL TREES AND SHRUBS WHICH ARE NOT IN DIRECT CONFLICT WITH THE IMPROVEMENTS SHALL BE PROTECTED BY THE GENERAL CONTRACTOR.
16. ALL SITE WORK SHALL BE CAREFULLY COORDINATED BY GENERAL CONTRACTOR WITH LOCAL UTILITY COMPANY, TELEPHONE COMPANY, AND ANY OTHER UTILITY COMPANIES HAVING JURISDICTION OVER THIS LOCATION.

ENVIRONMENTAL NOTES

1. ALL WORK PERFORMED SHALL BE DONE IN ACCORDANCE WITH ISSUED PERMITS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PAYMENT OF FINES AND PROPER CLEAN UP FOR AREAS IN VIOLATION.
2. CONTRACTOR AND/OR DEVELOPER SHALL BE RESPONSIBLE FOR CONSTRUCTION AND MAINTENANCE OF EROSION AND SEDIMENTATION CONTROLS DURING CONSTRUCTION FOR PROTECTION OF ADJACENT PROPERTIES, ROADWAYS AND WATERWAYS AND SHALL BE MAINTAINED IN PLACE THROUGH FINAL JURISDICTIONAL INSPECTION & RELEASE OF SITE.
3. CONTRACTOR SHALL INSTALL/CONSTRUCT ALL NECESSARY SEDIMENT/SILT CONTROL FENCING AND PROTECTIVE MEASURES WITHIN THE LIMITS OF SITE DISTURBANCE PRIOR TO CONSTRUCTION.
4. NO SEDIMENT SHALL BE ALLOWED TO EXIT THE PROPERTY. THE CONTRACTOR IS REPSONIBLE FOR TAKING ADEQUATE MEASURES FOR CONTROLLING EROSION. ADDITIONAL SEDIMENT CONTROL FENCING MAY BE REQUIRED IN ANY AREAS SUBJECT TO EROSION.
5. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING POSITIVE DRAINAGE ON THE SITE AT ALL TIMES WITH SILT AND EROSION CONTROL MEASURES MAINTAINED ON THE DOWNSTREAM SIDE OF SITE DRAINAGE. ANY DAMAGE TO ADJACENT PROPERTY AS A RESULT OF EROSION WILL BE CORRECTED AT THE CONTRACTORS EXPENSE.
6. CONTRACTOR SHALL BE RESPONSIBLE FOR DAILY INSPECTIONS AND ANY REPAIRS OF ALL SEDIMENT CONTROL MEASURES INCLUDING SEDIMENT REMOVAL AS NECESSARY.
7. CLEARING OF VEGETATION AND TREE REMOVAL SHALL BE ONLY AS PERMITTED AND BE HELD TO A MINIMUM. ONLY TREES NECESSARY FOR CONSTRUCTION OF THE FACILITIES SHALL BE REMOVED.
8. SEEDING SAND MULCHING AND/OR SODDING OF THE SITE WILL BE ACCOMPLISHED AS SOON AS POSSIBLE AFTER COMPLETION OF THE PROJECT FACILITIES AFFECTING LAND DISTURBANCE.
9. CONTRACTOR SHALL PROVIDE ALL EROSION AND SEDIMENTATION CONTROL MEASURES AS REQUIRED BY LOCAL, COUNTY AND STATE CODES AND ORDINANCES TO PROTECT EMBANKMENTS FROM SOIL LOSS AND TO PREVENT ACCUMULATION OF SOIL AND SILT IN STREAMS AND DRAINAGE PATHS LEAVING THE CONSTRUCTION AREA. THIS MAY INCLUDE SUCH MEASURES AS SILT FENCES, STRAW BALE SEDIMENT BARRIERS, AND CHECK DAMS.
10. RIP RAP OF SIZES INDICATED SHALL CONSIST OF CLEAN, HARD, SOUND, DURABLE, UNIFORM IN QUALITY STONE FREE OF ANY DETRIMENTAL QUANTITY OF SOFT, FRIABLE, THIN, ELONGATED OR LAMINATED PIECES, DISINTEGRATED MATERIAL, ORGANIC MATTER, OIL, ALKALI, OR OTHER DELETERIOUS SUBSTANCES.

Sprint

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LANDTECH PROJECT NUMBER: 1231202				
REV.	DATE	DESCRIPTION	REQ. BY	BY
0	12/20/12	PRELIMINARY DRAWINGS	N/A	MRM
1	12/26/12	ADD SLOTS FOR PIPE TILT	N/A	MRM
2	01/25/13	ROTATE EQUIPMENT	N/A	CJL
3	02/22/13	ADD RECORD EASEMENTS	TJ	DAM

NOTE: THESE DRAWINGS ARE TO SCALE WHEN PLOTTED ON 11"x17" SHEETS. REFER TO GRAPHIC SCALES ON REPRODUCTIONS.

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DE81XC020

SITE NAME:

CROSS POINTE CHURCH

SITE ADDRESS:

21336 MACK AVENUE
GROSSE POINTE WOODS,
MICHIGAN 48236

Sheet Title:

GENERAL NOTES

Sheet Number:

FOUNDATION, EXCAVATION AND BACKFILL NOTES

1. ALL FINAL GRADED SLOPES SHALL BE A MAXIMUM OF 3 HORIZONTAL TO 1 VERTICAL.
2. ALL EXCAVATIONS PREPARED FOR PLACEMENT OF CONCRETE SHALL BE OF UNDISTURBED SOILS, SUBSTANTIALLY HORIZONTAL AND FREE FROM ANY LOOSE, UNSUITABLE MATERIAL OR FROZEN SOILS, AND WITHOUT THE PRESENCE OF POUNDING WATER. DEWATERING FOR EXCESS GROUND WATER SHALL BE PROVIDED WHEN REQUIRED. COMPACTION OF SOILS UNDER CONCRETE PAD FOUNDATIONS SHALL NOT BE LESS THAN 95% OF THE MODIFIED PROCTOR MAXIMUM DRY DENSITY FOR THE SOIL IN ACCORDANCE WITH ASTM D1557.
3. CONCRETE FOUNDATIONS SHALL NOT BE PLACED ON ORGANIC OR UNSUITABLE MATERIAL. IF INADEQUATE BEARING CAPACITY IS REACHED AT THE DESIGNED EXCAVATION DEPTH, THE UNSATISFACTORY SOIL SHALL BE EXCAVATED TO ITS FULL DEPTH AND EITHER BE REPLACED WITH MECHANICALLY COMPACTED GRANULAR MATERIAL OR THE EXCAVATION SHALL BE FILLED WITH CONCRETE OF THE SAME TYPE SPECIFIED FOR THE FOUNDATION. CRUSHED STONE MAY BE USED TO STABILIZE THE BOTTOM OF THE EXCAVATION. ANY STONE SUB BASE MATERIAL, IF USED, SHALL NOT SUBSTITUTE FOR REQUIRED THICKNESS OF CONCRETE.
4. ALL EXCAVATIONS SHALL BE CLEAN OF UNSUITABLE MATERIAL SUCH AS VEGETATION, TRASH, DEBRIS, AND SO FORTH PRIOR TO BACK FILLING. BACK FILL SHALL CONSIST OF APPROVED MATERIALS SUCH AS EARTH, LOAM SANDY CLAY, SAND AND GRAVEL, OR SOFT SHALE, FREE FROM CLODS OR LARGE STONES OVER 2 1/2" MAX DIMENSIONS. ALL BACK FILL SHALL BE PLACED IN COMPACTED LAYERS.
5. ALL FILL MATERIALS AND FOUNDATION BACK FILL SHALL BE PLACED MAXIMUM 6" THICK LIFTS BEFORE COMPACTION. EACH LIFT SHALL BE WETTED IF REQUIRED AND COMPACTED TO NOT LESS THAN 95% OF THE MODIFIED PROCTOR MAXIMUM DRY DENSITY FOR SOIL IN ACCORDANCE WITH ASTM D1557.
6. NEWLY PLACED CONCRETE FOUNDATIONS SHALL CURE A MINIMUM OF 72 HRS PRIOR TO BACK FILLING.
7. FINISHED GRADING SHALL BE SLOPED TO PROVIDE POSITIVE DRAINAGE AND PREVENT STANDING WATER. THE FINAL (FINISH) ELEVATION OF SLAB FOUNDATIONS SHALL SLOPE AWAY IN ALL DIRECTIONS FROM THE CENTER. FINISH GRADE OF CONCRETE PADS SHALL BE A MAXIMUM OF 4 INCHES ABOVE FINAL FINISH GRADE ELEVATIONS. PROVIDE SURFACE FILL GRAVEL TO ESTABLISH SPECIFIED ELEVATIONS WHERE REQUIRED.
8. NEWLY GRADED SURFACE AREAS TO RECEIVE GRAVEL SHALL BE COVERED WITH GEOTEXTILE FABRIC TYPE: TYPAR-3401 AS MANUFACTURED BY "CONSTRUCTION MATERIAL 1-800-239-3841" OR AN APPROVED EQUIVALENT, SHOWN ON PLANS. THE GEOTEXTILE FABRIC SHALL BE BLACK IN COLOR TO CONTROL THE RECURRENCE OF VEGETATIVE GROWTH AND EXTEND TO WITHIN 1 FOOT OUTSIDE THE SITE FENCING OR ELECTRICAL GROUNDING SYSTEM PERIMETER WHICH EVER IS GREATER. ALL FABRIC SHALL BE COVERED WITH A MINIMUM OF 4" DEEP COMPACTED STONE OR GRAVEL AS SPECIFIED. I.E. FDOT TYPE No. 57 FOR FENCED COMPOUND; FDOT TYPE No. 67 FOR ACCESS DRIVE AREA.
9. IN ALL AREAS TO RECEIVE FILL, REMOVE ALL VEGETATION, TOPSOIL, DEBRIS, WET AND UNSATISFACTORY SOIL MATERIALS, OBSTRUCTIONS, AND DELETERIOUS MATERIALS FROM GROUND SURFACE. PLOW STRIP OR BREAK UP SLOPED SURFACES STEEPER THAN 1 VERTICAL TO 4 HORIZONTAL SUCH THAT FILL MATERIAL WILL BIND WITH EXISTING/PREPARED SOIL SURFACE.
10. WHEN SUB GRADE OR PREPARED GROUND SURFACE HAS A DENSITY LESS THAN THAT REQUIRED FOR THE FILL MATERIAL, SCARIFY THE GROUND SURFACE TO DEPTH REQUIRED, PULVERIZE, MOISTURE-CONDITION AND/OR AERATE THE SOILS AND RE-COMPACT TO THE REQUIRED DENSITY PRIOR TO PLACEMENT OF FILLS.
11. IN AREAS WHICH EXISTING GRAVEL SURFACING IS REMOVED OR DISTURBED DURING CONSTRUCTION OPERATIONS, REPLACE GRAVEL SURFACING TO MATCH ADJACENT GRAVEL SURFACING AND RESTORED TO THE SAME THICKNESS AND COMPACTION AS SPECIFIED. ALL RESTORED GRAVEL SURFACING SHALL BE FREE FROM CORRUGATIONS AND WAVES.
12. EXISTING GRAVEL SURFACING MAY BE EXCAVATED SEPARATELY AND REUSED WITH THE CONDITION THAT ANY UNFAVORABLE AMOUNTS OF ORGANIC MATTER, OR OTHER DELETERIOUS MATERIALS ARE REMOVED PRIOR TO REUSE. FURNISH ANY ADDITIONAL GRAVEL RESURFACING MATERIAL AS NEEDED TO PROVIDE A FULL DEPTH COMPACTED SURFACE THROUGHOUT SITE.
13. GRAVEL SUB SURFACE SHALL BE PREPARED TO REQUIRED COMPACTION AND SUB GRADE ELEVATIONS BEFORE GRAVEL SURFACING IS PLACED AND/OR RESTORED. ANY LOOSE OR DISTURBED MATERIALS SHALL BE THOROUGHLY COMPACTED AND ANY DEPRESSIONS IN THE SUB GRADE SHALL BE FILLED AND COMPACTED WITH APPROVED SELECTED MATERIAL. GRAVEL SURFACING MATERIAL SHALL NOT BE USED FOR FILLING DEPRESSIONS IN THE SUB GRADE.
14. PROTECT EXISTING GRAVEL SURFACING AND SUB GRADE IN AREAS WHERE EQUIPMENT LOADS WILL OPERATE. .
15. DAMAGE TO EXISTING STRUCTURES AND/OR UTILITIES RESULTING FROM CONTRACTORS NEGLIGENCE SHALL BE REPAIRED AND/OR REPLACED TO THE OWNERS SATISFACTION AT NO ADDITIONAL COST TO THE CONTRACT.
16. ALL SUITABLE BORROW MATERIAL FOR BACK FILL OF THE SITE SHALL BE INCLUDED IN THE BID. EXCESS TOPSOIL AND UNSUITABLE MATERIAL SHALL BE DISPOSED OF OFF SITE AT LOCATIONS APPROVED BY GOVERNING AGENCIES AT NO ADDITIONAL COST TO THE CONTRACT.

STRUCTURAL STEEL NOTES

1. ALL STEEL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE AISC MANUAL OF STEEL CONSTRUCTION. STEEL SECTIONS SHALL BE IN ACCORDANCE WITH ASTM AS INDICATED BELOW:
W-SHAPES: ASTM A992, 50 KSI
ANGLES, BARS CHANNELS: ASTM A36, 36 KSI
HSS SECTIONS: ASTM 500, 46 KSI
PIPE SECTIONS: ASTM A53-E, 35 KSI
2. ALL EXTERIOR EXPOSED STEEL AND HARDWARE SHALL BE HOT DIPPED GALVANIZED.
3. ALL WELDING SHALL BE PERFORMED USING E70XX ELECTRODES AND WELDING SHALL CONFORM TO AISC. WHERE FILLET WELD SIZES ARE NOT SHOWN, PROVIDE THE MINIMUM SIZE PER TABLE J2.4 IN THE AISC "MANUAL OF STEEL CONSTRUCTION". PAINTED SURFACES SHALL BE TOUCHED UP.
4. NON-STURCTURAL CONNECTIONS FOR STEEL GRATING MAY USE 5/8"Ø ASTM A 307 BOLTS UNLESS NOTED OTHERWISE..
5. FIELD MODIFICATIONS ARE TO BE COATED WITH ZINC ENRICHED PAINT.

CONCRETE MASONRY NOTES

1. CONCRETE MASONRY UNITS SHALL BE MEDIUM WEIGHT UNITS CONFORMING TO ASTM C90, GRADE N-1, (F'M=1,500 PS), MEDIUM WEIGHT (115 PCF).
2. MORTAR SHALL BE TYPE "S" (MINIMUM 1,800 PSI AT 28 DAYS).
3. GROUT SHALL HAVE A MINIMUM COMPRESSIVE STRNGTH OF 3,000 PSI AT 28 DAYS.
4. ALL CELLS CONTAINING REINFORCING STEEL OR EMBEDDED ITEMS AND ALL CELLS IN RETAINING WALLS AND WALLS BELOW GRADE SHALL BE SOLID GROUTED.
5. ALL HORIZONTAL REINFORCEMENT SHALL BE PLACED IN BOND BEAM OR LINTEL BEAM UNITS.
6. WHEN GROUTING IS STOPPED FOR ONE HOUR OR LONGER, HORIZONTAL CONSTRUCTION JOINTS SHALL BE FORMED BY STOPPING THE GROUT POUR 1-1/2" BELOW TOP OF THE UPPERMOST UNIT.
7. ALL BOND BEAM BLOCK SHALL BE "DEEP CUT" UNITS.
8. PROVIDE INSPECTION AND CLEAN-OUT HOLES AT BASE OF VERTICAL CELLS HAVING GROUT LIFTS IN EXCESS OF 4'-0" OF HEIGHT.
9. ALL GROUT SHALL BE CONSOLIDATED WITH A MECHANICAL VIBRATOR.
10. CEMENT SHALL BE AS SPECIFIED FOR CONCRETE.
11. REINFORCING BARS - SEE NOTES UNDER "STRUCTURAL CONCRETE NOTES" FOR REQUIREMENTS.
12. PROVIDE ONE BAR DIAMETER (A MINIMUM OF 1/2") GROUT BETWEEN MAIN REINFORCING AND MASONRY UNITS.
13. LOW LIFT CONSTRUCTION, MAXIMUM GROUT POUR HEIGHT IS 4 FEET.
14. HIGH LIFT GROUTED CONSTRUCTION MAY BE USED IN CONFORMANCE WITH PROJECT SPECIFICATIONS AND SECTION 2104.6.1 OF U.B.C.
15. ALL CELLS IN CONCRETE BLOCKS SHALL BE FILLED SOLID WITH GROUT, EXCEPT AS NOTEED IN THE DRAWINGS OR SPECIFICATIONS.
16. CELLS SHALL BE IN VERTICAL ALIGNMENT, DOWELS IN FOOTINGS SHALL BE SET TO ALIGN WITH CORES CONTAINING REINFORCING STEEL.
17. REFER TO ARCHITECTURAL DRAWINGS FOR SURFACE AND HEIGHT OF UNITS, LAYING PATTERN AND JOINT TYPE.
18. SAND SHALL BE CLEAN, SHARP AND WELL GRADED, FREE FROM INJURIOUS AMOUNTS OF DUST, LUMPS, SHALE, ALKAU OR ORGANIC MATERIAL.
19. BRICK SHALL CONFORM TO ASTM C-62 AND SHALL BE GRADE MW OR BETTER.

STRUCTURAL CONCRETE NOTES

1. ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH THE ACI 301-05, ACI 318-05 AND THE SPECIFICATION FOR CAST-IN-PLACE CONCRETE.
2. ALL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH f_c' =3,000 PSI AT 28 DAYS UNLESS NOTED OTHERWISE.
3. REINFORCING STEEL SHALL CONFORM TO ASTM A 615, GRADE 60, DEFORMED UNLESS NOTED OTHERWISE. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A 185 WELDED STEEL WIRE FABRIC UNLESS NOTED OTHERWISE. SPLICES CLASS "B" AND ALL HOOKS SHALL BE STANDARD UNLESS NOTED OTHERWISE.
4. THE FOLLOWING MINIMUM CONCRETE COVER SHALL BE PROVIDED FOR REINFORCING STEEL UNLESS SHOWN OTHERWISE ON DRAWINGS:

CONCRETE CAST AGAINST EARTH.....3 IN.

CONCRETE EXPOSED TO EARTH OR WEATHER:
#6 AND LARGER.....2 IN.
#5 AND SMALLER & WWF.....1 1/2 IN.

CONCRETE NOT EXPOSED TO EARTH OR WEATHER OR NOT CAST AGAINST THE GROUND:
SLAB AND WALL.....3/4 IN.
BEAMS AND COLUMNS.....1 1/2 IN.
5. A 3/4" CHAMFER SHALL BE PROVIDED AT ALL EXPOSED EDGES OF CONCRETE U.N.O. IN ACCORDANCE WITH ACI 301 SECTION 4.2.4
6. HOLES TO RECEIVE EXPANSION/WEDGE ANCHORS SHALL BE 1/8" LARGER IN DIAMETER THAN THE ANCHOR BOLT, DOWEL OR ROD AND SHALL CONFORM TO MANUFACTURER'S RECOMMENDATION FOR EMBEDMENT DEPTH OR AS SHOWN ON THE DRAWINGS. LOCATE AND AVOID CUTTING EXISTING REBAR WHEN DRILLING HOLES IN ELEVATED CONCRETE SLABS.
7. USE AND INSTALLATION OF CONCRETE EXPANSION/WEDGE ANCHOR, SHALL BE PER ICBO & MANUFACTURER'S WRITTEN RECOMMENDED PROCEDURES.

WEATHERPROOFING NOTES

- STANDARD CONSTRUCTION SPECIFICATIONS FOR WIRELESS SITES
- 3.6 WEATHERPROOFING CONNECTORS AND GROUND KITS:

A. ALL CONNECTORS AND GROUND KITS SHALL BE WEATHERPROOFED USING BUTYL RUBBER WEATHERPROOFING AND TAPE. THIS INSTALLATION MUST BE DONE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATION OR AS SHOWN ON THE CONSTRUCTION DRAWINGS (WHICHEVER IS GREATER). IF NO DIRECTION IS PROVIDED, WEATHERPROOFING MUST BE DONE PER THE FOLLOWING INSTRUCTIONS.

1. THE COAXIAL CABLE CONNECTION OR GROUND KIT CAN BE ENCOMPASSED INTO COLD SHRINK AND COMPLETELY WRAPPED WITH 2 INCH WIDE ELECTRICAL TAPE OVERLAPPING EACH ROW BY APPROXIMATELY ½" AND EXTENDING PAST THE CONNECTION BY TWO INCHES AS DISCUSSED BELOW; OR

2. THE COAXIAL CABLE CONNECTION OR GROUND KIT CAN BE WRAPPED WITH LAYERS OF ELECTRICAL/BUTYL RUBBER/ELECTRICAL TAPE AS DISCUSSED BELOW; OR

3. THE COAXIAL CABLE CONNECTION OR GROUND KIT CAN BE WRAPPED WITH TWO LAYERS OF 1.5 INCH WIDE SELF-AMALGAMATING TAPE COVERED WITH TWO LAYERS OF ELECTRICAL TAPE AS DISCUSSED BELOW.
- B. COLD SHRINK INSTALLATION PROCEDURE:

1. REQUIRED MATERIAL: COLD SHRINK TUBE, SPACERS AS NEEDED, BLACK ELECTRICAL TAPE-2 INCHES WIDE

2. REQUIRED TOOLS: KNIFE AND TAPE MEASURE

STEP 1: THOROUGHLY CLEAN AND DRY THE SURFACE OF COAXIAL CABLE AND CONNECTOR TO REMOVE ALL GREASE AND DIRT. MARK THE MAIN FEED (LARGER DIAMETER) COAXIAL CABLE AT LEAST TWO INCHES ABOVE THE CONNECTION AS THE SPECIFIED START DIMENSION FOR THE COLD SHRINK.

STEP 2: SLIDE THE COLD SHRINK TUBE OVER THE PRE-CONNECTORIZED END OF THE LARGER DIAMETER COAXIAL CABLE PRIOR TO MATING CONNECTOR INTERFACES. MAKE THE CONNECTION.

STEP 3: REMOVE WAX PAPER FROM A SPACER HALF AND PRESS ONTO COAXIAL CABLE DIRECTLY BEHIND THE CONNECTOR. REMOVE THE WAX PAPER FROM THE OTHER SPACER HALF AND ALIGN THE TWO SPACER HALVES WITH ADHESIVE PORTIONS FACING EACH OTHER. PRESS THE SPACER HALVES TOGETHER. THE SPACER WILL BE PLACED NEXT TO THE CONNECTOR ON THE SMALLER DIAMETER COAXIAL CABLE SIDE.

STEP 4: SLIDE THE COLD SHRINK TUBE OVER THE CONNECTION TO THE SPECIFIED START DIMENSION MARK. HOLD THE COLD SHRINK TUBE AND COAXIAL CABLE IN ONE HAND SO THAT THE EDGE OF COLD SHRINK TUBE IS IN LINE WITH THE MARK.

STEP 5: WITH YOUR FREE HAND, BEGIN REMOVING COLD SHRINK TUBE CORE. THE CORE WILL BE REMOVED BY UNWINDING IN A COUNTERCLOCKWISE DIRECTION WHILE LIGHTLY PULLING THE ATTACHED CORD AWAY FROM THE TUBE.

STEP 6: USE BOTH HANDS TO CONTINUE THE UNWINDING PROCESS AS THE COLD SHRINK TUBE BEGINS TO COLLAPSE INTO POSITION. CONTINUE THE UNWINDING PROCESS UNTIL THE CORE IS COMPLETELY REMOVED AND THE COLD SHRINK TUBE IS INSTALLED.

STEP 7: EXCESS COLD SHRINK TUBE EXTENDING TWO INCHES BEYOND THE SPACER HALVES CAN BE REMOVED OR LEFT IN PLACE. EXCESS COLD SHRINK TUBE CAN BE CAREFULLY CUT OFF WITH A KNIFE.

STEP 8: WRAP OVER THE COLD SHRINK TUBE WITH ONE LAYER OF BLACK ELECTRICAL TAPE 2 INCH WIDTH OVERLAPPING EACH ROW BY 1/2 INCH. THIS TOP LAYER MUST BE WRAPPED USING A SHINGLED EFFECT. THE LAYER SHALL BE WRAPPED SO THAT THE ENDS ARE IN THE UPWARD DIRECTION CREATING A SHINGLED EFFECT WITH THE TAPE SO WATER WILL BE REPELLED AND NOT ALLOWED TO COLLECT AND POOL. THIS TOP LAYER OF ELECTRICAL TAPE MUST EXTEND TWO INCHES (THE TAPE WIDTH) PAST THE COLD SHRINK TUBE ONTO THE UNDERLYING CABLE. TAPE SHALL BE WRAPPED SO THAT NO VOIDS OR AIR PACKETS ARE PRESENT. TAPE SHALL BE CUT WITH A SHARP KNIFE.

C. BUTYL RUBBER TAPE INSTALLATION PROCEDURE:

1. REQUIRED MATERIAL: BLACK ELECTRICAL TAPE-2 INCH WIDE AND BUTYL RUBBER TAPE 2 TO 3 INCHES WIDE.

2. REQUIRED TOOLS: KNIFE OR SCISSORS.

STEP 1: THOROUGHLY CLEAN AND DRY THE SURFACE OF COAXIAL CABLE AND CONNECTOR TO REMOVE ALL GREASE AND DIRT. WRAP CONNECTOR/GROUND KIT WITH TWO LAYERS OF BLACK ELECTRICAL TAPE-2 INCH WIDTH OVERLAPPING EACH ROW BY APPROXIMATELY 1/2 INCH. THESE LAYERS OF TAPE MUST BE WRAPPED TIGHT ENOUGH SO THAT NO VOIDS OR AIR PACKETS ARE PRESENT AND MUST EXTEND ONE INCH PAST THE CONNECTOR/GROUND KIT ON EACH SIDE. TWO ROWS SHALL BE APPLIED, ONE IN EACH DIRECTION, WITH THE TOP ROW SHINGLED TO PROMOTE WATER RUNOFF.

STEP 2: WRAP CONNECTOR/GROUND KIT WITH ONE LAYER OF BUTYL RUBBER TAPE (2 TO 3 INCHES WIDTH) OVER THE BLACK ELECTRICAL TAPE OVERLAPPING EACH ROW BY APPROXIMATELY 1/2 INCH. THE BUTYL RUBBER TAPE MUST EXTEND 2 TO 3 INCHES (THE TAPE WIDTH) PAST THE ELECTRICAL TAPE AND COME IN GOOD CONTACT WITH THE UNDERLYING CABLE. ON CONNECTORS, WHEN WEATHERPROOFING FROM THE MAIN LINE TO THE JUMPER, BUILD UP THIS AREA WITH EXTRA BUTYL RUBBER TAPE TO INSURE A SMOOTH TRANSITION FREE OF VOIDS AND AIR PACKETS DOWN TO THE SMALLER DIAMETER CABLE.

STEP 3: WRAP CONNECTOR/GROUND KIT WITH TWO LAYERS OF BLACK ELECTRICAL TAPE 2 INCH WIDTH OVERLAPPING EACH ROW BY 1 INCH. THESE LAST TWO LAYERS MUST BE WRAPPED USING A SHINGLED EFFECT. THE TOP LAYER SHALL BE WRAPPED SO THAT THE ENDS ARE IN THE UPWARD DIRECTION CREATING A SHINGLED EFFECT WITH THE TAPE SO WATER WILL BE REPELLED AND NOT ALLOWED TO COLLECT AND POOL. THESE TOP LAYERS OF ELECTRICAL TAPE MUST EXTEND TWO INCHES (THE TAPE WIDTH) PAST THE BUTYL RUBBER TAPE ONTO THE UNDERLYING CABLE.

ALL LAYERS OF TAPE SHALL BE WRAPPED SO THAT NO VOIDS OR AIR PACKETS ARE PRESENT. THE LAST WRAP OF TAPE SHALL NOT BE PULLED OR STRETCHED. ALL TAPE SHALL BE CUT WITH A SHARP KNIFE OR SCISSORS.

D. SELF-AMALGAMATING TAPE INSTALLATION PROCEDURE:

1. REQUIRED MATERIAL: SELF-AMALGAMATING TAPE -1.5 INCHES WIDE AND BLACK ELECTRICAL TAPE - 2 INCHES WIDE.

2. REQUIRED TOOLS: KNIFE OR SCISSORS.

STEP 1: THOROUGHLY CLEAN AND DRY THE SURFACE OF COAXIAL CABLE AND CONNECTOR TO REMOVE ALL GREASE AND DIRT.

STEP 2: START WRAPPING SELF-AMALGAMATING TAPE ON THE CABLE AT LEAST 2 INCHES FROM THE CONNECTOR/GROUND KIT. MAKE SURE TAPE IS STRETCHED TIGHT DURING THIS APPLICATION.

STEP 3: WHILE STRETCHING TAPE, MAKE ONE WRAP OF THE TAPE AROUND THE CABLE, MAKING SURE THE TAPE IS WRAPPED ONTO ITSELF. THE TAPE WILL ONLY ADHERE TO ITSELF.

STEP 4: CONTINUE WRAPPING THE CABLE AND CONNECTOR/GROUND KIT USING HALF OVERLAP (0.75 INCH WIDE) LAYERS.

STEP 5: WRAP OVER AND PAST THE CONNECTOR/GROUND KIT AT LEAST 2 INCHES.

STEP 6: TO TERMINATE THE SELF-AMALGAMATING TAPE, WRAP THE TAPE AT LEAST ONE FULL ROUND OVER THE CABLE STRETCHING THE TAPE TIGHT. CUT THE TAPE USING KNIFE OR SCISSORS AND APPLY THE LOOSE END TO THE UNDERLYING SELF-AMALGAMATING TAPE USING THUMB PRESSURE.

STEP 7: TWO ROWS OF SELF-AMALGAMATING TAPE SHALL BE APPLIED IN THIS MANNER, IN ALTERNATING DIRECTIONS. THE TOP LAYER SHALL BE WRAPPED SO THAT THE ENDS ARE IN AN UPWARD DIRECTION CREATING A SHINGLED EFFECT WITH THE TAPE SO WATER WILL BE REPELLED.

STEP 8: WRAP OVER SELF-AMALGAMATING TAPE WITH TWO LAYERS OF BLACK ELECTRICAL TAPE- 2 INCH WIDTH OVERLAPPING EACH ROW BY 1 INCH. THESE TOP TWO LAYERS MUST ALSO BE WRAPPED USING A SHINGLED EFFECT. THE LAYERS SHALL BE WRAPPED SO THAT THE ENDS ARE IN THE UPWARD DIRECTION CREATING A SHINGLED EFFECT WITH THE TAPE SO WATER WILL BE REPELLED AND NOT ALLOWED TO COLLECT AND POOL. THESE TOP LAYERS OF ELECTRICAL TAPE MUST EXTEND TWO INCHES (THE TAPE WIDTH) PAST THE SELF-AMALGAMATING TAPE ONTO THE UNDERLYING CABLE. ALL LAYERS OF TAPE SHALL BE WRAPPED SO THAT NO VOIDS OR AIR PACKETS ARE PRESENT. THE LAST WRAP OF TAPE SHALL NOT BE PULLED OR STRETCHED. ALL TAPE SHALL BE CUT WITH A SHARP KNIFE OR SCISSORS.

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FAX (248) 893-8949

LANDTECH PROJECT NUMBER:				1231202	
REV.	DATE	DESCRIPTION	REQ. BY	BY	
0	12/20/12	PRELIMINARY DRAWINGS	N/A	MRM	
1	12/26/12	ADD SLOTS FOR PIPE TILT	N/A	MRM	
2	01/25/13	ROTATE EQUIPMENT	N/A	CJL	
3	02/22/13	ADD RECORD EASEMENTS	TJ	DAM	

NOTE: THESE DRAWINGS ARE TO SCALE WHEN PLOTTED ON 11"x17" SHEETS. REFER TO GRAPHIC SCALES ON REPRODUCTIONS.

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SITE NUMBER:

DE81XC020

SITE NAME:

CROSS POINTE CHURCH

SITE ADDRESS:

21336 MACK AVENUE
GROSSE POINTE WOODS,
MICHIGAN 48236

Sheet Title:

GENERAL NOTES

Sheet Number:

PARENT PARCEL DESCRIPTION (as provided)

WD224B1A C1A D1A WD224E1A1 THAT PART OF PRIVATE CLAIM 224 DESCRIBED AS BEGINNING AT THE INTERSECTION OF THE CENTER LINE OF GOETHE AVE WITH THE SLY LINE OF PC224 AND PROCEEDING TH WLY ALONG SAID SLY LINE 1222.16 FT TO THE CENTER LINE OF MACK AVE TH

PROPOSED SPRINT LEASE AREA DESCRIPTION

PART OF PRIVATE CLAIM 224, CITY OF GROSSE POINTE WOODS, WAYNE COUNTY, MICHIGAN, DESCRIBED AS: COMMENCING AT THE NORTHWEST CORNER OF LOT 6 OF GROSSE POINTE BAPTIST CHURCH SUBDIVISION AS RECORDED IN LIBER 108, PAGES 5 & 6, WAYNE COUNTY REGISTER OF DEEDS; THENCE SOUTH 17°49'07" WEST ALONG THE WEST LINE OF SAID SUBDIVISION A DISTANCE OF 396.48 FEET TO THE SOUTHWEST CORNER OF LOT 1 OF SAID SUBDIVISION BEING THE NORTHERLY LINE OF DE SERANNO'S GROSSE POINTE WOODS SUBDIVISION NO. 4 AS RECORDED IN LIBER 76, PAGE 4, WAYNE COUNTY REGISTER OF DEEDS; THENCE NORTH 72°02'35" WEST ALONG SAID NORTHERLY LINE A DISTANCE OF 584.06 FEET; THENCE NORTH 00°57'08" WEST A DISTANCE OF 43.51 FEET TO THE POINT OF BEGINNING; THENCE SOUTH 89°02'52" WEST A DISTANCE OF 20.00 FEET; THENCE NORTH 00°57'08" WEST A DISTANCE OF 12.00 FEET; THENCE NORTH 89°02'52" EAST PARALLEL AND 5.0 FEET SOUTH OF AN EXISTING BUILDING WALL A DISTANCE OF 20.00 FEET; THENCE SOUTH 00°57'08" EAST PARALLEL AND 5.0 FEET WEST OF AN EXISTING BUILDING WALL A DISTANCE OF 12.00 FEET TO THE POINT OF BEGINNING. DESCRIBED LEASE AREA CONTAINS 240 SQUARE FEET OR 0.006 ACRES.

SPRINT ACCESS/UTILITY EASEMENT DESCRIPTION

AN EASEMENT FOR INGRESS/EGRESS AND THE INSTALLATION AND MAINTENANCE OF UTILITIES OVER/UNDER AND ACROSS THE PARENT PARCEL BEING MORE PARTICULARLY DESCRIBED AS ALL THAT PART OF PRIVATE CLAIM 224, CITY OF GROSSE POINTE WOODS, WAYNE COUNTY, MICHIGAN, DESCRIBED AS: THE PARCEL OF LAND BOUNDED ON THE NORTH BY EAST EIGHT MILE ROAD (PUBLIC/120 FEET WIDE); BOUNDED ON THE EAST BY GROSSE POINTE BAPTIST CHURCH SUBDIVISION AS RECORDED IN LIBER 108, PAGES 5 & 6, WAYNE COUNTY REGISTER OF DEEDS; BOUNDED ON THE SOUTH BY THE SOUTHERLY LINE OF SAID PRIVATE CLAIM 224 BEING THE NORTHERLY LINE OF DE SERANNO'S GROSSE POINTE WOODS SUBDIVISION NO. 4 AS RECORDED IN LIBER 76, PAGE 4, WAYNE COUNTY REGISTER OF DEEDS AND BOUNDED ON THE WEST BY MACK AVENUE (PUBLIC/150 FEET WIDE).

TITLE RESOLUTION:
THE SPRINT LEASE AREA DOES NOT INFRINGE ON, OR IN ANY WAY IMPACT, ANY EASEMENTS, RIGHTS OF WAYS OR OTHER INTERESTS IDENTIFIED ON THE RECORD DOCUMENTS PROVIDED TO SURVEYOR.

FAA COORDINATES & ELEVATION (AT CENTER OF TOWER)

Horizontal: NAD 83

LATITUDE: 42° 27' 01.7"N

LONGITUDE: 82° 54' 10.3"W

Vertical: NGVD 29

ELEVATION: 585'

ZONING INFORMATION:

SUBJECT SITE: COMMERCIAL

NORTH OF SITE: MACOMB CO.

SOUTH OF SITE: RESIDENTIAL

EAST OF SITE: RESIDENTIAL

WEST OF SITE: RESIDENTIAL

TOWER SETBACKS REQUIRED:

FRONT SETBACKS: N/A

SIDE SETBACKS: N/A

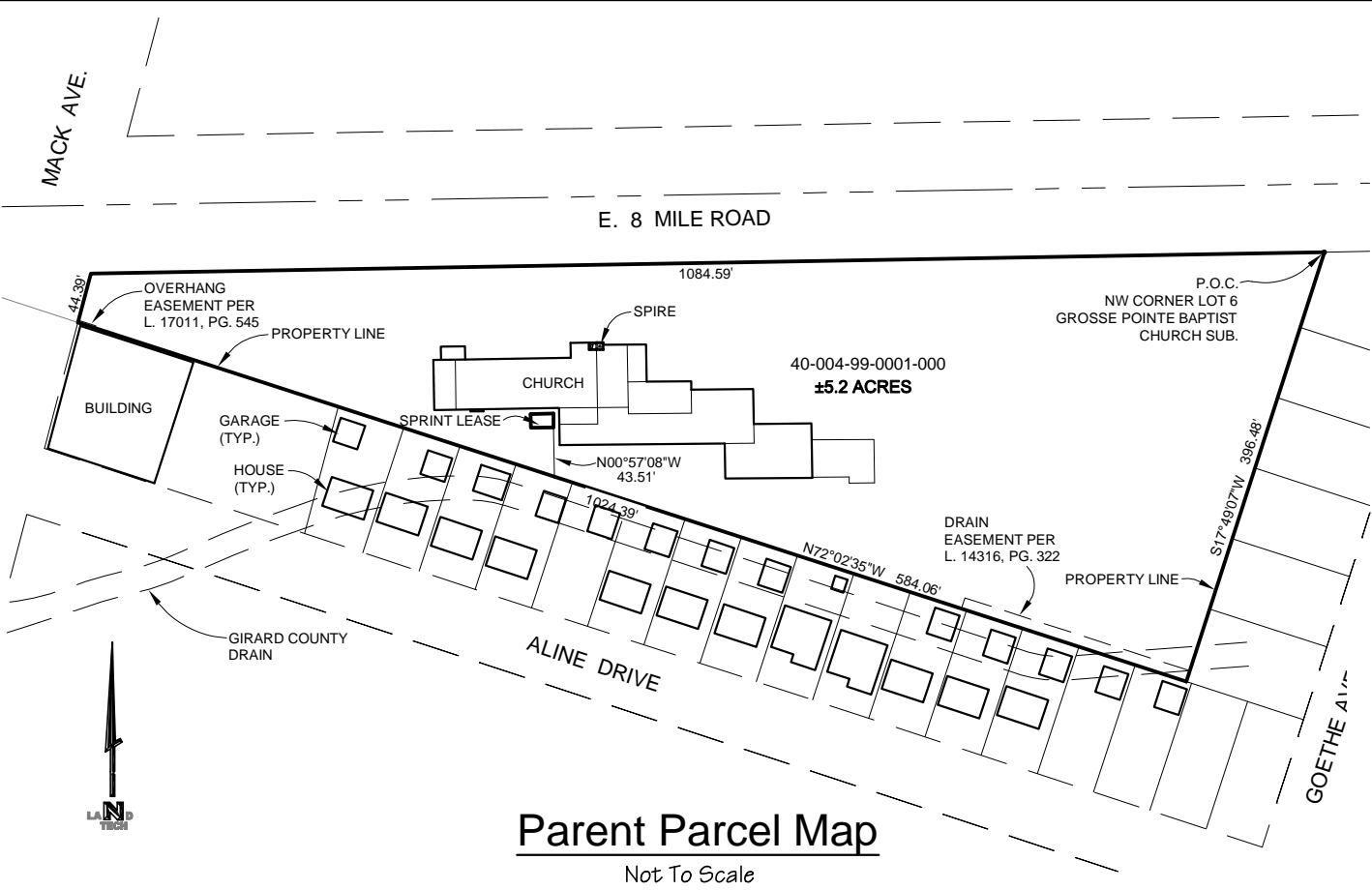
REAR SETBACKS: N/A

TOWER SETBACKS OBSERVED:

FRONT SETBACKS: N/A

SIDE SETBACKS: N/A

REAR SETBACKS: N/A



Certification :

I, Matthew T. Mokanyk, certify that I have located and marked, the proposed SMR installation, existing features, that shown coordinates are within FAA requirements for 2C reporting, this survey meets the minimum technical requirements of the state in which it was completed and that it substantially complies with the current accuracy standards adopted by the American Land Title Association (ALTA) and the American Congress on Surveying & Mapping (ACSM).

Matthew T. Mokanyk, P.S., P.E. 12/21/12
Michigan No. 42063 Date

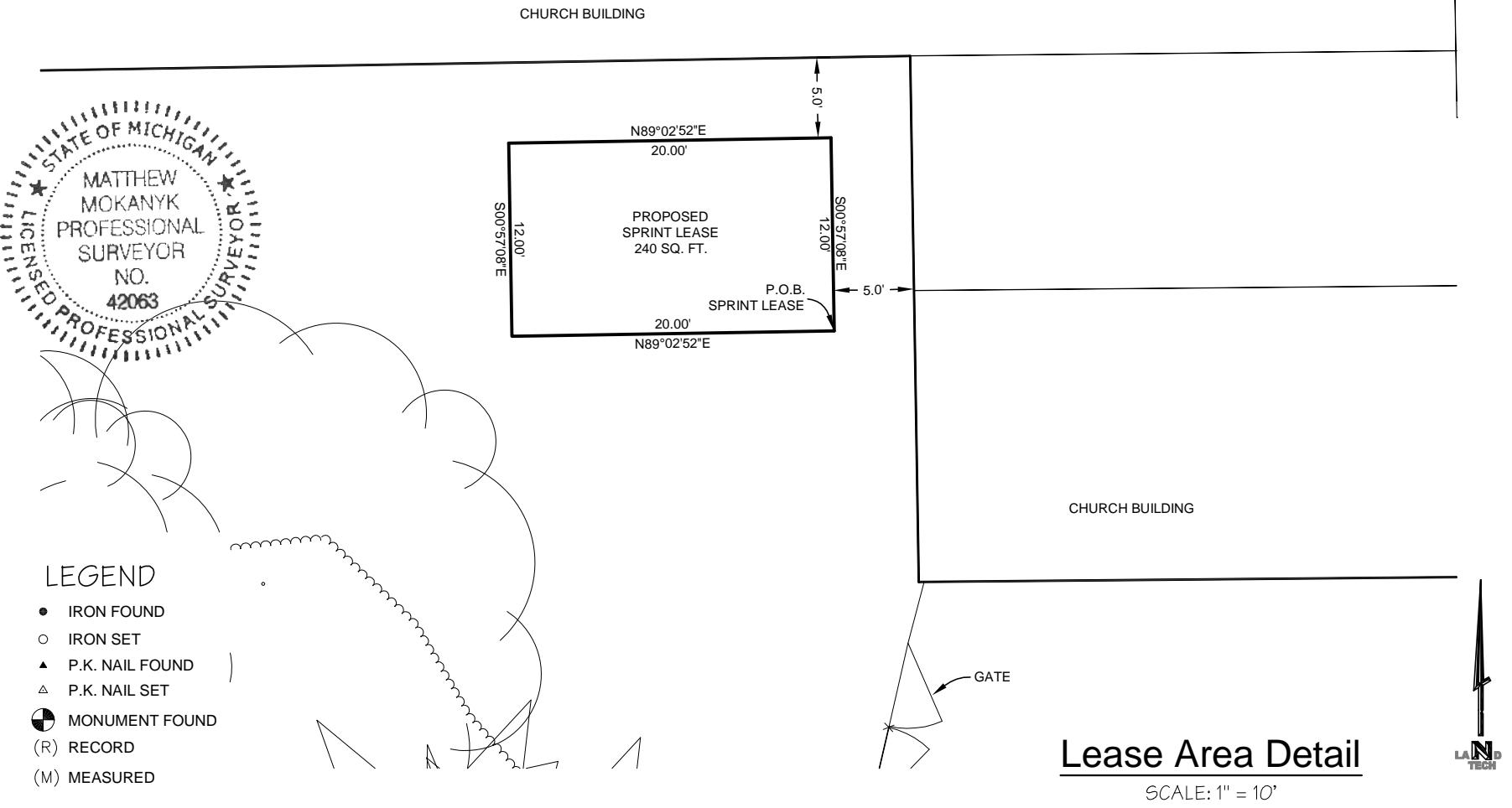
SITE INFORMATION

OWNER: CROSS POINTE CHRISTIAN CHURCH
PARCEL ID NUMBER: 40-004-99-0001-000
SITE ZONING: COMMERCIAL
AREA OF LEASE SITE: 240 SQ. FT.
APPROXIMATE AREA OF PARENT PARCEL: ±5.2 ACRES
DATE OF SURVEY: 12/10/12
BASIS OF ELEVATIONS: NGVD 29
BASIS OF BEARINGS: TRUE NORTH PER GPS OBSERVATIONS
SURVEYOR'S NOTE

THE BOUNDARY OF THIS SURVEY IS ILLUSTRATED FROM RECORD INFORMATION AND IS APPROXIMATE. THE TOPOGRAPHICAL SURVEY FOR THIS MAP WAS PERFORMED ON DECEMBER 10, 2012.

FLOOD PLAIN INFORMATION

THE LEASE AREA SHOWN HEREON IS NOT LOCATED WITHIN A 100-YEAR FLOOD ZONE



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LANDTECH PROJECT NUMBER: 1231202

REV.	DATE	DESCRIPTION	REQ. BY	BY
0	12/20/12	PRELIMINARY DRAWINGS	N/A	MRM
1	12/26/12	ADD SLOTS FOR PIPE TILT	N/A	MRM
2	01/25/13	ROTATE EQUIPMENT	N/A	CJL
3	02/22/13	ADD RECORD EASEMENTS	TJ	DAM

NOTE: THESE DRAWINGS ARE TO SCALE WHEN PLOTTED ON 11"x17" SHEETS. REFER TO GRAPHIC SCALES ON REPRODUCTIONS.

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SITE NUMBER: DE81XC020
SITE NAME: CROSS POINTE CHURCH
SITE ADDRESS: 21336 MACK AVENUE
GROSSE POINTE WOODS, MICHIGAN 48236

Sheet Title: PARCEL PLAN

Sheet Number: S-1

NOTE:
RESTORE ALL EXISTING SURFACES TO
PRE-CONSTRUCTION CONDITION AFTER
COMPLETION OF WORK.

1. CONDUIT ROUTING IS DIAGRAMMATICALLY SHOWN ON PLANS AND ARE ONLY APPROXIMATIONS. THE EXACT LOCATION AND ROUTING SHALL BE FIELD VERIFIED.
2. ALL ELECTRICAL EQUIPMENT AND CONTROLLING DEVICES SHALL BE PROVIDED WITH LAMI COLD NAMEPLATES. INDICATING THE CIRCUITS ORIGINATION AND ALL EQUIPMENT TERMINATIONS
3. CONTRACTOR SHALL SUPPLY BREAKERS, CONDUITS AND CIRCUIT CONDUCTORS, FOR A COMPLETED SYSTEM AND SHALL BE IN COMPLIANCE WITH MANUFACTURER SPECIFICATIONS.
4. PROPOSED CABINET LOCATIONS AND MOUNTING DIMENSIONS ARE APPROXIMATE. CONTRACTOR SHALL FIELD VERIFY EXISTING CLEARANCES, CONNECTIONS, ETC. AND SHALL VERIFY EQUIPMENT MOUNTING DIMENSIONS PER MANUFACTURER'S DRAWINGS PRIOR TO INSTALLATION.

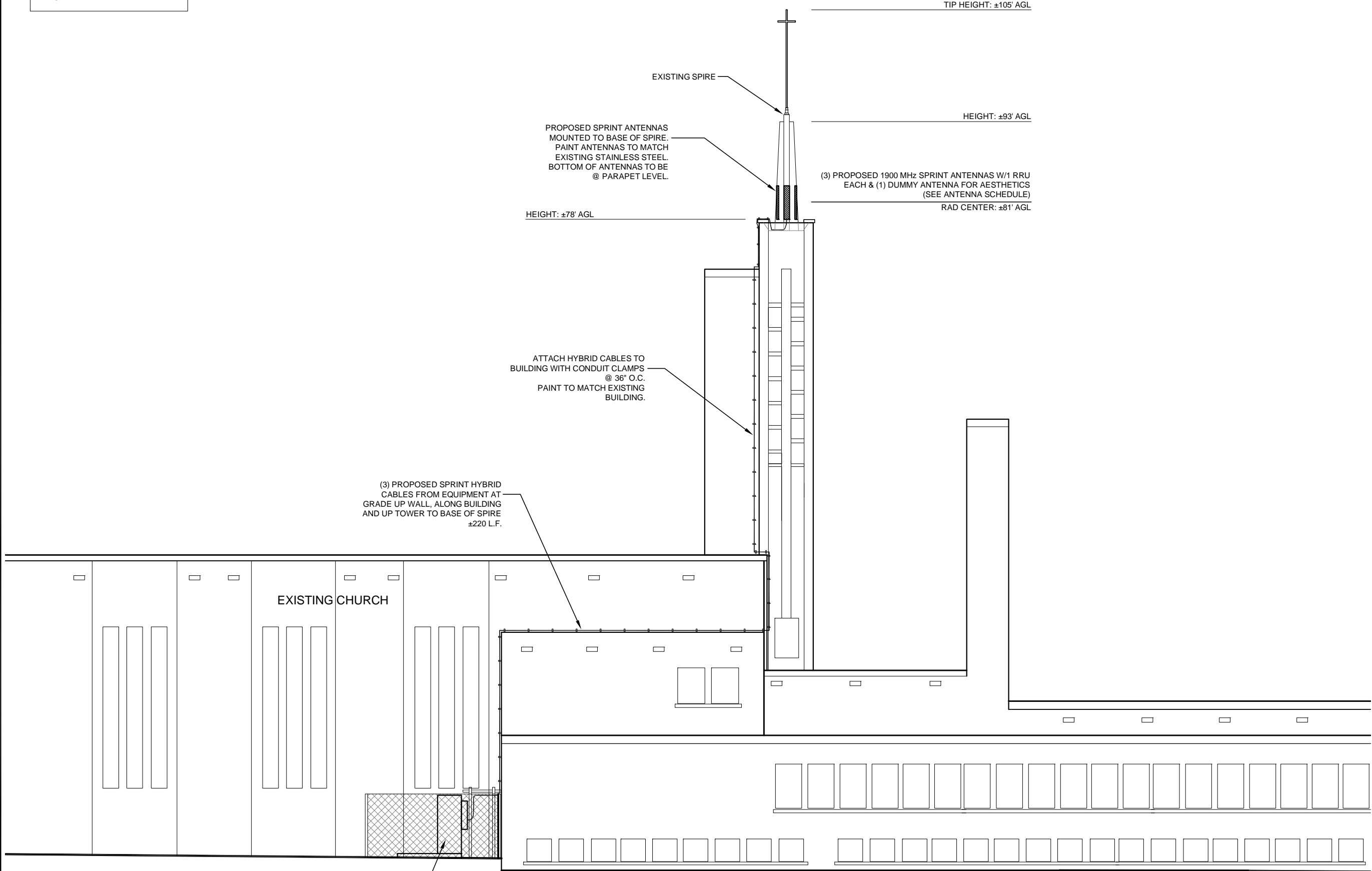
SEE SHEET S-2 FOR
CONTINUATION OF
HYBRID CABLE
ROUTE TO SPIRE

NOTE:
FINISHED GRADE WILL MATCH EXISTING CONTOURS (NO GRADING PROPOSED).
THERE WILL BE NO CHANGE IN DRAINAGE PATTERN DUE TO THE PROPOSED INSTALLATION.
NO SIGNIFICANT RUNOFF IS GENERATED BY THE PROPOSED INSTALLATION.



C-1

SEE RF DATA SHEET FOR ANTENNA
MODEL, LAYOUT, AZIMUTHS AND
TILTS.



South Elevation View

SCALE: 1" = 12'

Sprint[®]

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LANDTECH PROJECT NUMBER: 1231202				
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0	12/20/12	PRELIMINARY DRAWINGS	N/A	MRM
1	12/26/12	ADD SLOTS FOR PIPE TILT	N/A	MRM
2	01/25/13	ROTATE EQUIPMENT	N/A	CJL
3	02/22/13	ADD RECORD EASEMENTS	TJ	DAM

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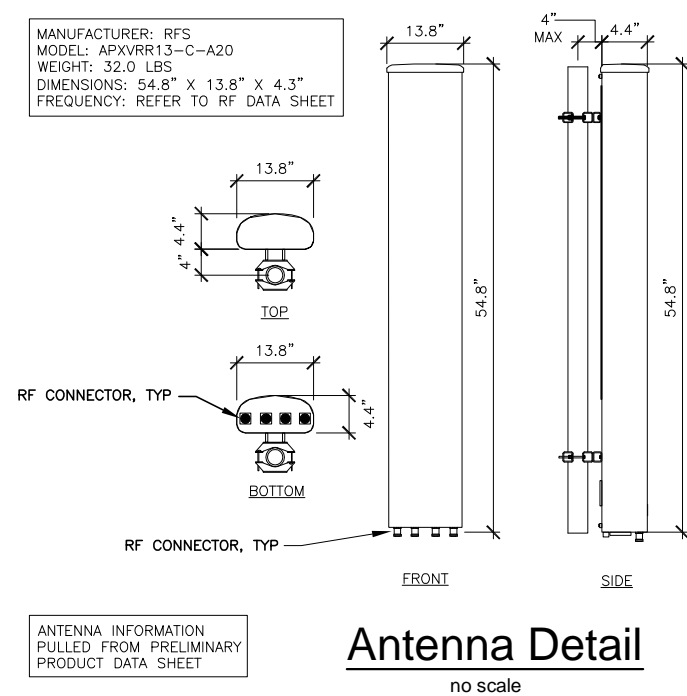
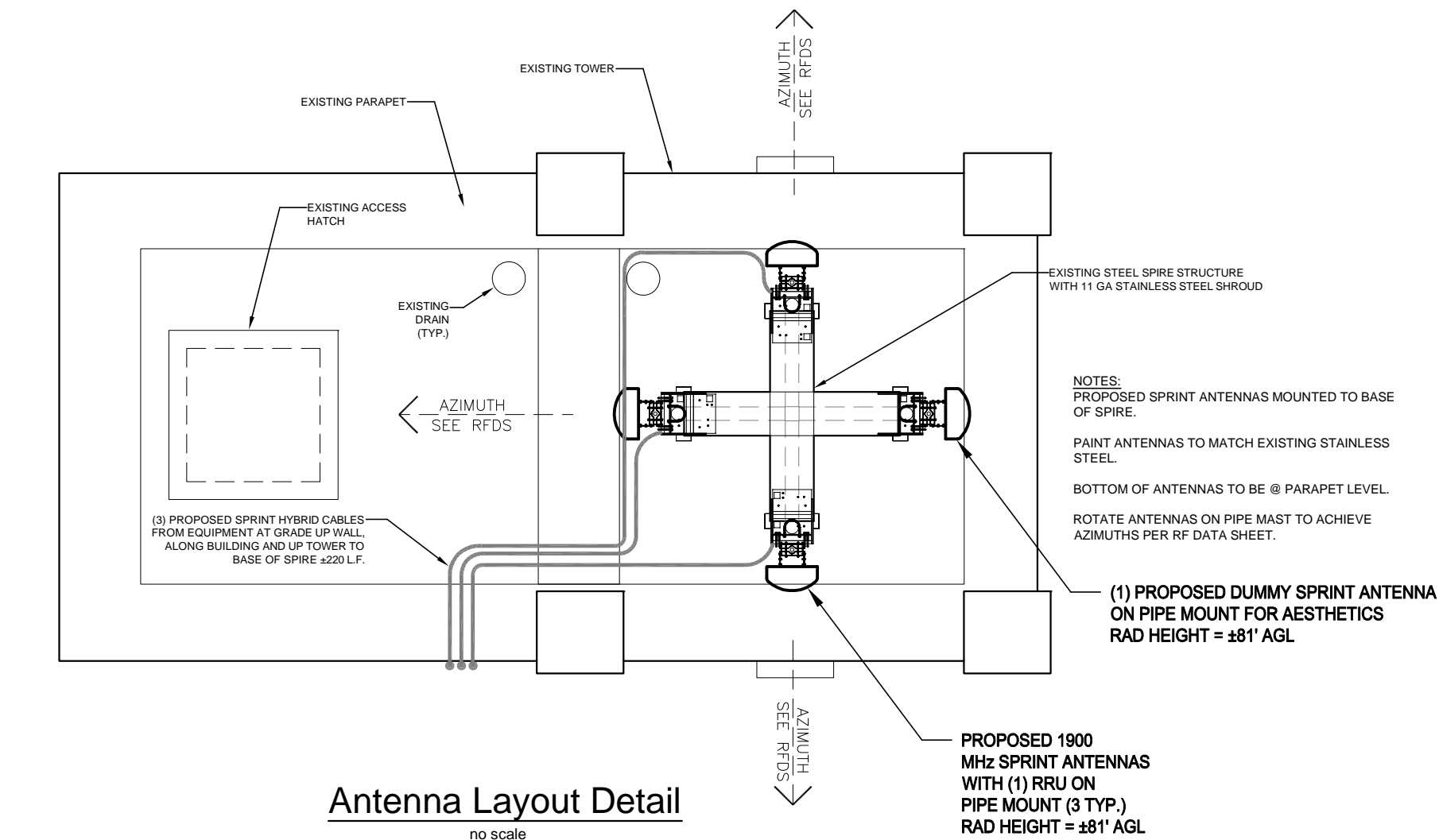
SITE NUMBER:
DE81XC020

SITE NAME:
CROSS POINTE CHURCH

SITE ADDRESS:
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GROSSE POINTE WOODS,
MICHIGAN 48236**

Sheet Title:
ELEVATION VIEW

Sheet Number:
C-2



RRU / HYBRID CABLE SCHEDULE									
SECTOR	RRU MODEL	RRU FREQUENCY	HYBRID CABLE LENGTH	HYBRID CABLE DIAMETER	JUMPER SIZE	JUMPER LENGTH	RET LENGTH	RET CABLE MANUFACTURER	RET CABLE MODEL NUMBER
ALPHA	RRH-P4	(1)1900MHz	220'	N/A	1/2"	6'	9.8'	COMMSCOPE	iRET AISGv1.1
BETA	RRH-P4	(1)1900MHz	220'	N/A	1/2"	6'	9.8'	COMMSCOPE	iRET AISGv1.1
GAMMA	RRH-P4	(1)1900MHz	220'	N/A	1/2"	6'	9.8'	COMMSCOPE	iRET AISGv1.1

ANTENNA SCHEDULE									
SECTOR	ANTENNA FREQUENCY	ANTENNA MFR.	ANTENNA MODEL	ANTENNA QUANTITY	AZIMUTH	RAD CENTER	ANT. SIZE	ELECT TILT	MECH TILT
ALPHA	1900 MHz	RFS	APXVRR13-C-A20	1 (PER SECTOR)	TBD	81'	4'-6"	TBD	0°
BETA	1900 MHz	RFS	APXVRR13-C-A20	1 (PER SECTOR)	TBD	81'	4'-6"	TBD	0°
GAMMA	1900 MHz	RFS	APXVRR13-C-A20	1 (PER SECTOR)	TBD	81'	4'-6"	TBD	0°

NOTES:

1. CONTRACTOR TO FIELD VERIFY ANTENNA CABLE LENGTHS.
2. ALL MAIN CABLES WILL BE COLOR CODED AT EIGHT (8) LOCATIONS. COLOR CODING WILL BE DONE NEXT TO ALL CONNECTORS THROUGH TRANSMISSION PATH.
3. ALL HYBRID CABLES WILL BE GROUNDED W/ HYBRID CABLE GROUND KITS AT:
 - A. THE ANTENNA LEVEL
 - B. BASE OF BUILDING PRIOR TO TURNING HORIZONTAL
 - C. OUTSIDE THE EQUIPMENT CABINET AT ENTRY PORT.

ANTENNA CABLE NOTES:

4. THE ANTENNA CABLE INSTALLER SHALL BE RESPONSIBLE FOR PERFORMING AND SUPPLYING SPRINT WITH THREE (3) TYPEWRITTEN SWEEP TESTS (ANTENNA RETURN LOSS TEST). THIS TEXT SHALL BE PERFORMED TO THE SPECIFICATIONS AND PARAMETERS OUTLINED BY THE SPRINT RADIO FREQUENCY (RF) ENGINEER. THIS TEST SHALL BE PERFORMED PRIOR TO FINAL ACCEPTANCE OF THE SITE.
5. VAPOR WRAP WILL BE USED TO SEAL ALL CONNECTIONS.
6. ALL FIBER JUMPERS TO THE ANTENNAS FROM THE MAIN TRANSMISSION LINE SHALL NOT EXCEED 15'-0".
7. ALL HYBRID CABLE WILL BE SECURED TO THE DESIGNATED SUPPORT STRUCTURE AT DISTANCES NOT TO EXCEED 3'-0" O.C.
8. UPON COMPLETION PROVIDE A HEIGHT VERIFICATION DEPICTING RAD CENTER AND TOP OF ANTENNA.

[illegible]

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SITE NUMBER:

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SITE NAME:

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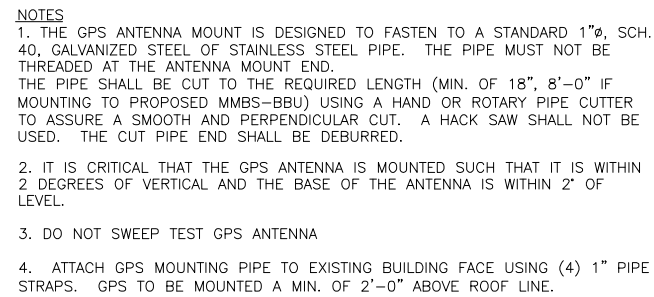
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MICHIGAN 48236

Sheet Title:

ANTENNA LAYOUT & DETAILS

Sheet Number:

C-3



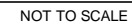
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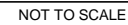
SIDE VIEW

1. REFER TO LOCAL JURISDICTION FOR CONDUIT ROUTING REQUIREMENTS.

NOT TO SCALE



SITE COVER-

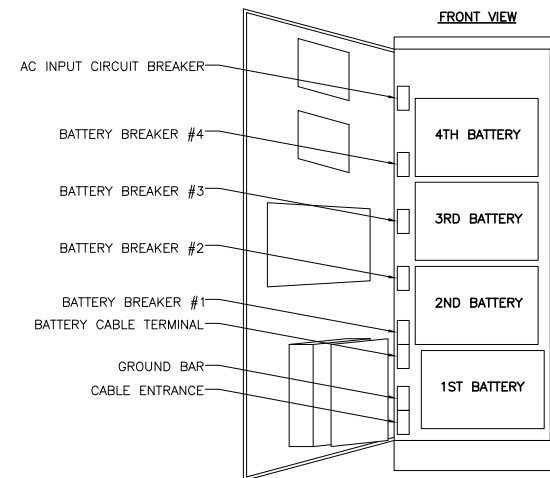
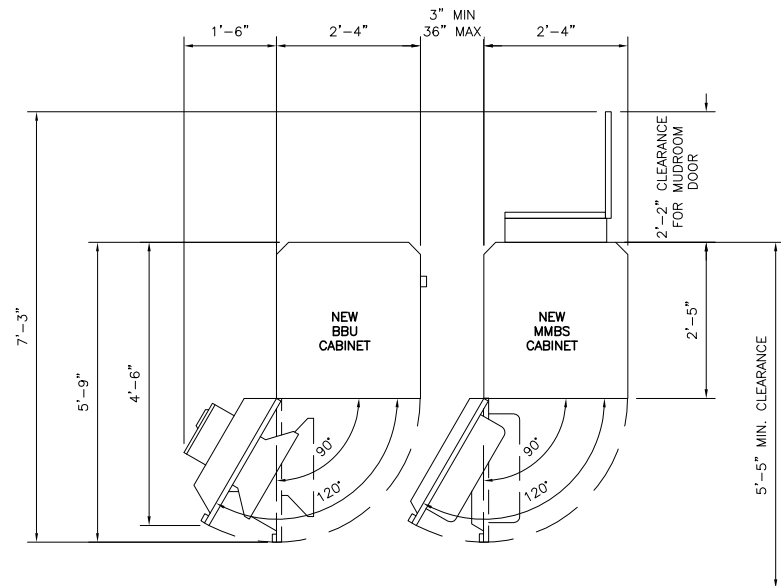


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Sheet Number:

C-5



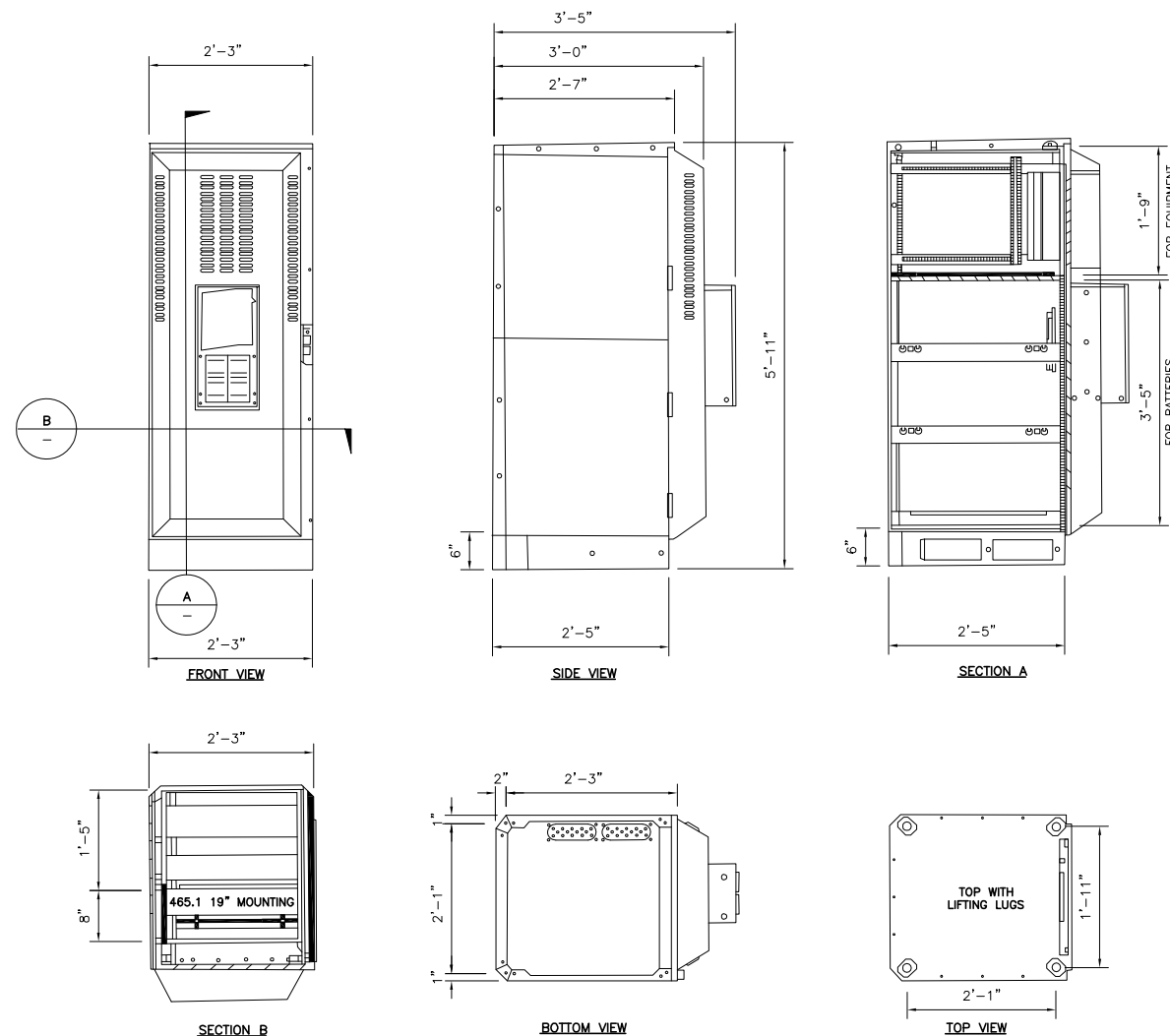
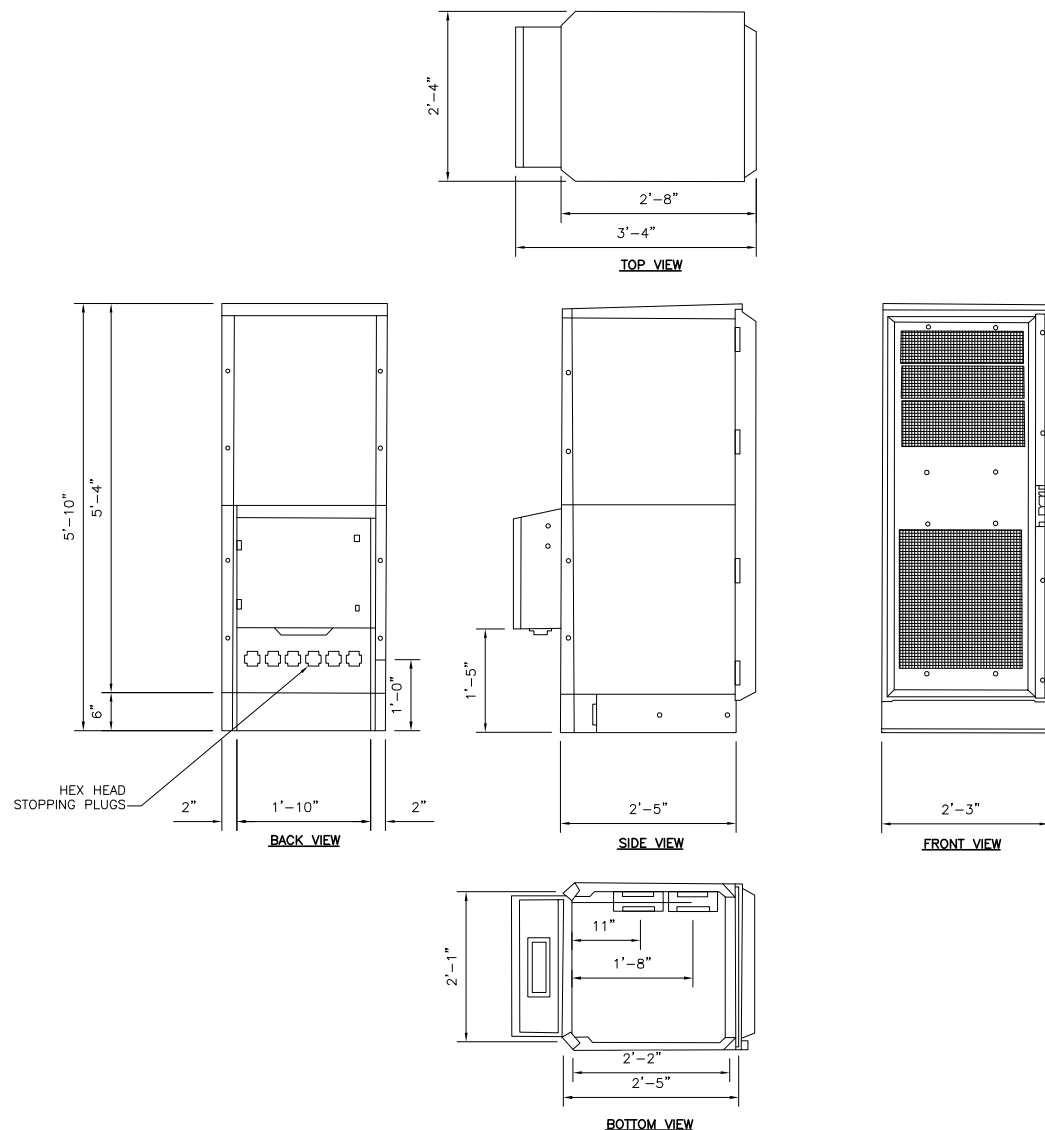
22"x34" SCALE: NOT TO SCALE
11"x17" SCALE: NOT TO SCALE

mmbs & BBU typical LAYOUT	1
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22"x34" SCALE: NOT TO SCALE
11"x17" SCALE: NOT TO SCALE

MMBS CABINET	2
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NOTE: THESE DRAWINGS ARE TO SCALE WHEN
PLOTTED ON 11"x17" SHEETS. REFER TO
GRAPHIC SCALES ON REPRODUCTIONS.



22"x34" SCALE: NOT TO SCALE
11"x17" SCALE: NOT TO SCALE

mmbs mechanical specifications	4
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22"x34" SCALE: NOT TO SCALE
11"x17" SCALE: NOT TO SCALE

bbu mechnical specifications	5
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SITE NUMBER:
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SITE NAME:
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SITE ADDRESS:
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GROSSE POINTE WOODS
MICHIGAN 48236**

Sheet Title:

CABINET DETAILS

Sheet Number:

C-6

PAINT ALL HARDWARE AND ANTENNAS TO MATCH EXISTING STAINLESS STEEL SHROUD.



NOT TO SCALE

NOT TO SCALE

PAINT ALL HARDWARE AND ANTENNAS
TO MATCH EXISTING STAINLESS STEEL
SHROUD.

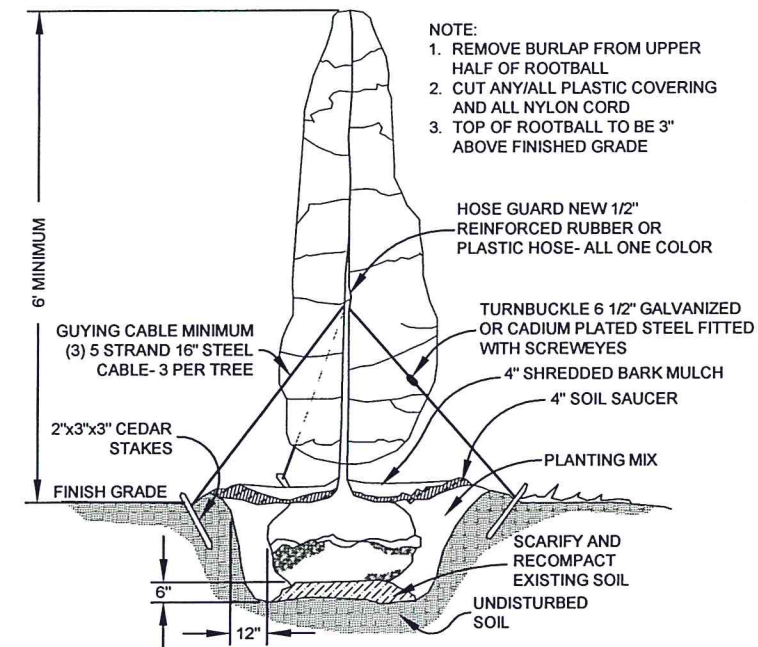
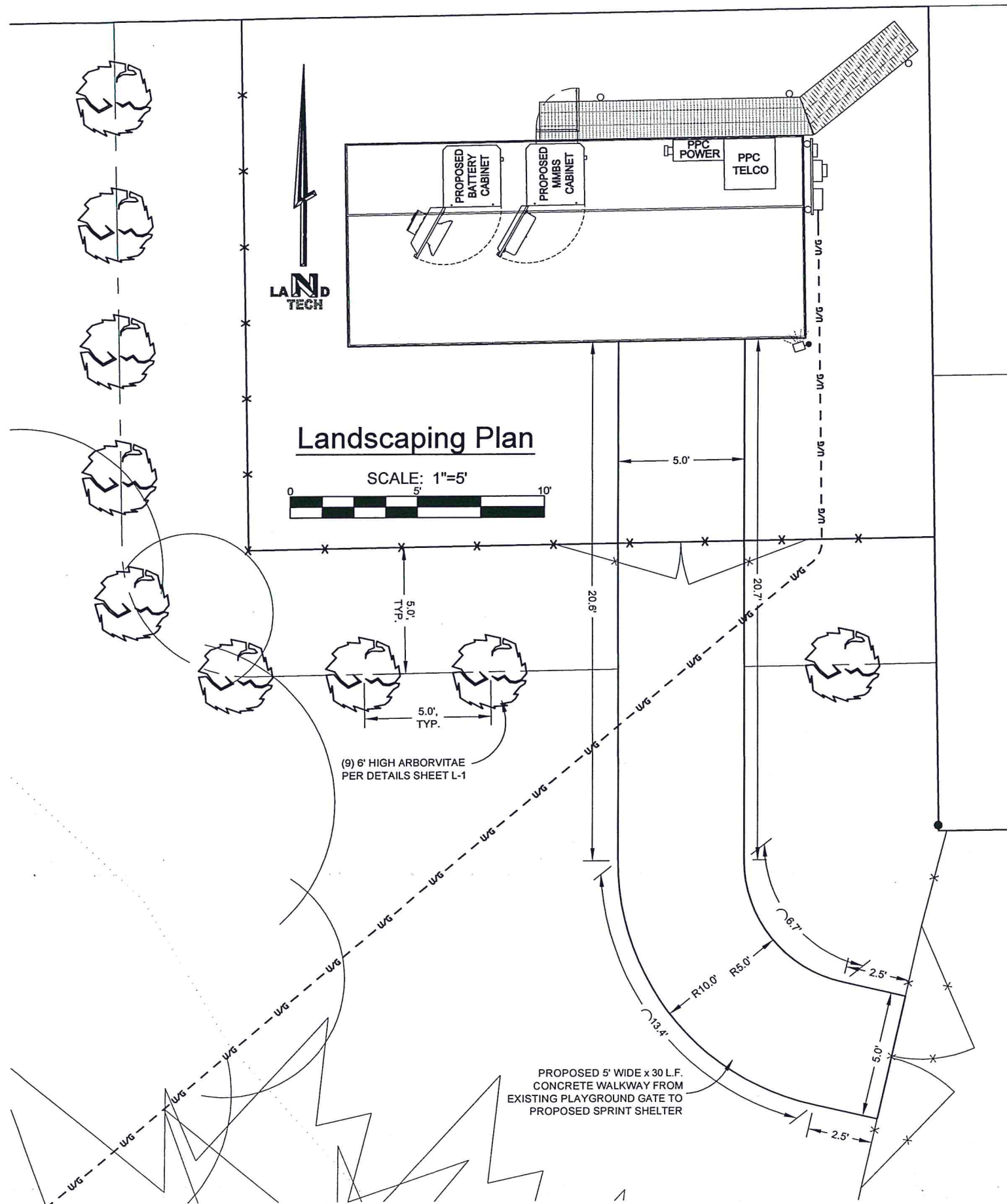
NOTE: THESE DRAWINGS ARE TO SCALE WHEN PLOTTED ON 11"x17" SHEETS. REFER TO GRAPHIC SCALES ON REPRODUCTIONS.



21336 MACK AVENUE
GROSSE POINTE WOODS,
MICHIGAN 48236

MOUNT DETAILS

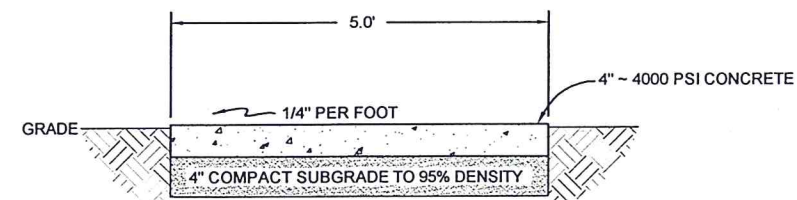
C-7



LANDSCAPING DETAIL
NOT TO SCALE

Landscaping Notes:

1. FURNISH ALL PLANTS, PLANT BACKFILL MATERIAL, LABOR, EQUIPMENT, AND OTHER NECESSARY LANDSCAPING MATERIALS TO COMPLETE INSTALLATION OF LANDSCAPE PLANTINGS AS SHOWN ON THE DRAWINGS.
2. WARRANT ALL PLANTINGS FOR A PERIOD OF ONE YEAR AGAINST DEFECTS INCLUDING DEATH AND UNSATISFACTORY GROWTH.
3. PLANTINGS WILL NOT BE PERMITTED FROM SEPTEMBER 30 TO APRIL 15.
4. PLANTS SHALL BE FURNISHED IN SOUND HEALTH AND FREE FROM INSECT PESTS, DISEASES, AND INJURIES. ALL PLANTS SHALL EQUAL OR EXCEED THE MEASUREMENTS SPECIFIED.
5. ALL TREES SHALL BE STAKED & GUYED WITH A MINIMUM OF TWO LINES, USING 14 GAUGE WIRE, NYLON OR PLASTIC STRAPS, AND HARDWOOD STAKES AND IN ACCORDANCE WITH STANDARD NURSERY PRACTICES.



PLACE IN ACCORDANCE WITH MDOT STANDARD SPECIFICATIONS AND CITY OF GROSSE POINTE WOODS SPECIFICATIONS

CONCRETE SIDEWALK CROSS SECTION DETAIL
NOT TO SCALE

Sprint

27755 STANSBURY BOULEVARD
FARMINGTON HILLS, MI 48334
TEL. (248) 893-8000
FAX (248) 893-8949

LANDTECH PROJECT NUMBER: 1231202

REV.	DATE	DESCRIPTION	REQ. BY	BY
0	12/20/12	PRELIMINARY DRAWINGS	N/A	MRM
1	12/26/12	ADD SLOTS FOR PIPE TILT	N/A	MRM
2	01/25/13	ROTATE EQUIPMENT	N/A	CJL
3	02/22/13	ADD RECORD EASEMENTS	TJ	DAM
4	08/06/13	COMMENTS FROM CITY	TJ	CJL

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SITE NUMBER:

DE81XC020

SITE NAME:

CROSS POINTE CHURCH

SITE ADDRESS:

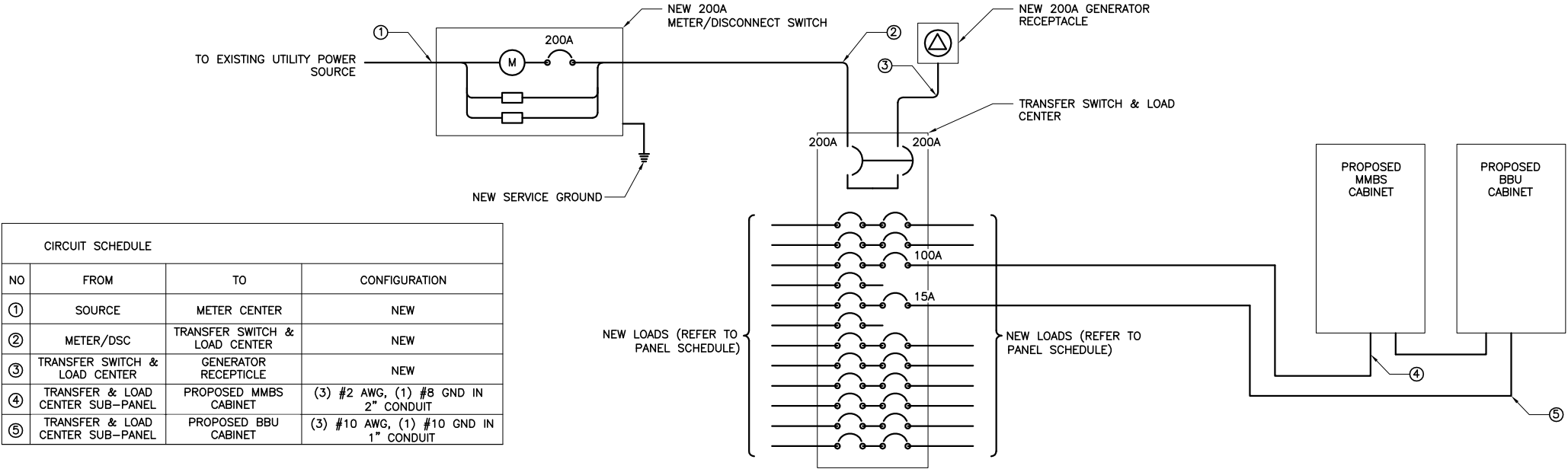
**21336 MACK AVENUE
GROSSE POINTE WOODS,
MICHIGAN 48236**

Sheet Title:

LANDSCAPING PLAN

Sheet Number:

L-1



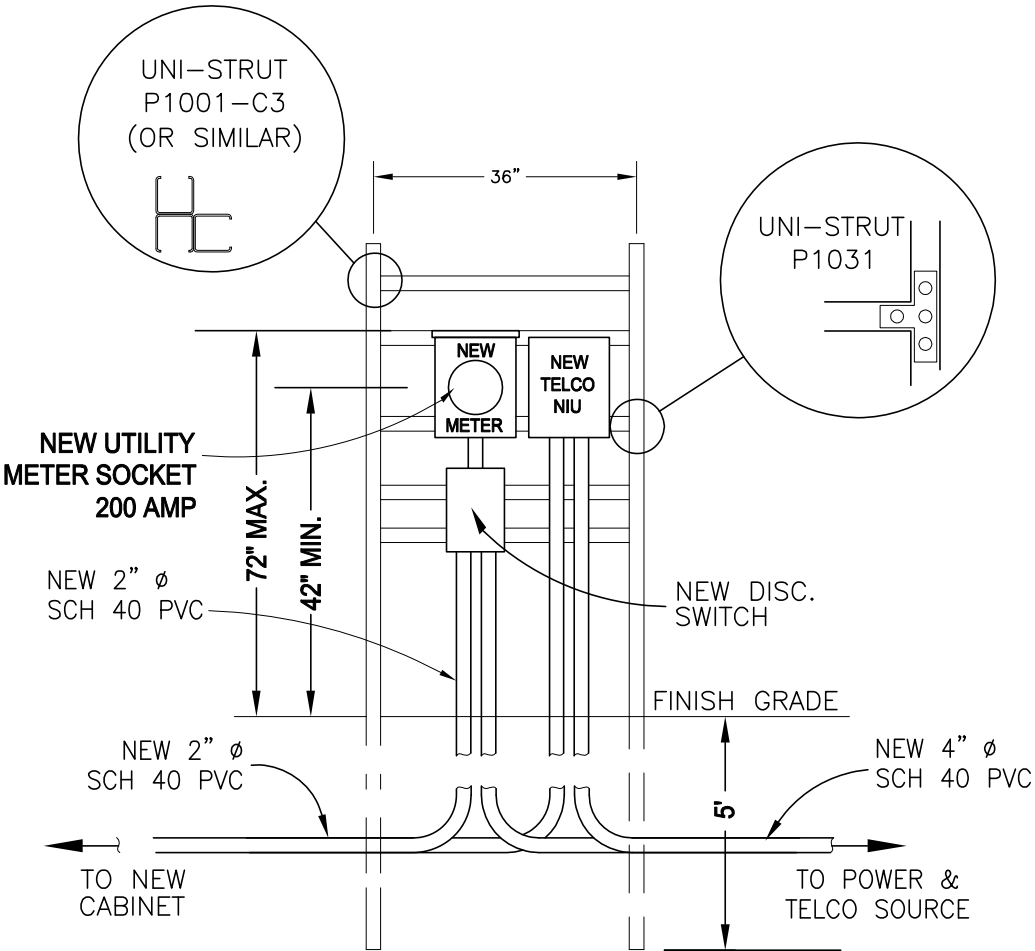
ELECTRICAL ONE-LINE DIAGRAM
NOT TO SCALE

ELECTRICAL NOTES

- ALL ELECTRICAL WORK SHALL BE DONE IN ACCORDANCE WITH CURRENT NATIONAL ELECTRICAL CODES AND ALL LOCAL AND STATE CODE, LAWS, AND ORDINANCES. PROVIDE ALL COMPONENTS AND WIRING SIZES AS REQUIRED TO MEET NEC STANDARDS.
- CONTRACTOR SHALL COORDINATE WITH LOCAL POWER COMPANY FOR REQUIREMENTS OF POWER SERVICE LINE TO THE METER BASE. POWER SERVICE REQUIREMENT IS COMMERCIAL. AC NOMINAL 120/208 VOLT OR 120/240 VOLT, SINGLE PHASE WITH 200 AMP RATING WHEN REQUIRED.
- CONTRACTOR SHALL COORDINATE WITH LOCAL TELEPHONE COMPANY FOR SERVICE LINE REQUIREMENTS TO TERMINATE AT THE PPC CABINET.
- CONTRACTOR SHALL FURNISH AND INSTALL ELECTRIC METER BASE AND 200A DISCONNECT SWITCH PER SITE PLAN AND DETAIL DRAWINGS AND PER LOCAL UTILITY COMPANY SPECIFICATIONS. THE METER BASE SHOULD BE LOCATED IN A MANNER WHERE ACCESSIBLE BY THE LOCAL POWER COMPANY WHEN REQUIRED.
- LOCAL POWER COMPANY SHALL PROVIDE 200 AMP ELECTRIC METER. CONTRACTOR SHALL COORDINATE INSTALLATION OF METER WITH LOCAL POWER COMPANY.
- UNDERGROUND POWER AND TELCO SERVICE LINES SHALL BE ROUTED IN A COMMON TRENCH. ALL UNDERGROUND CONDUIT SHALL BE PVC SCHEDULE 40 AND CONDUIT EXPOSED ABOVE GROUND SHALL BE GALVANIZED RIGID STEEL TUBING UNLESS OTHERWISE INDICATED.
- ALL TELCO CONDUIT LINES SHALL BE 4" SCH. 40 PVC CONDUIT UNLESS OTHERWISE INDICATED. THE TELCO CONDUIT FROM THE PPC SHALL BE ROUTED AND TERMINATED AT DESIGNATED TELCO DEMARCATION OR 2- FEET OUTSIDE FENCED AREA, NEAR UTILITY POLE (IN FENCED AREA), OR END CAP OFF AND PROVIDE MARKER STAKE PAINTED BRIGHT ORANGE WITH DESIGNATION FOR TELCO SERVICE.
- CONDUITS INSTALLED AT PCS EQUIPMENT ENDS PRIOR TO THE EQUIPMENT INSTALLATION SHALL BE STUBBED AND CAPPED AT 6" ABOVE GRADE OR PLATFORM. IF SERVICE LINES CAN'T BE INSTALLED INITIALLY, PROVIDE NYLON PULL CORD IN CONDUITS.
- THE SPRINT CABINET, INCLUDING 200 AMP LOAD PANEL AND TELCO PANEL, SHALL BE PROVIDED BY OWNER AND INSTALLED BY THE CONTRACTOR. CONTRACTOR IS TO INSTALL BREAKER(S) NOT PROVIDED BY MANUFACTURER. SEE PANEL SCHEDULE ON THIS SHEET FOR BREAKER REQUIREMENTS.
- LOCATION OF ELECTRIC METER AND DISCONNECT SWITCH TO BE PROVIDED BY GENERAL CONTRACTOR.
- CONTRACTOR SHALL INSPECT THE EXISTING CONDITIONS PRIOR TO SUBMITTING BID. ANY QUESTIONS ARISING DURING THE BID PERIOD IN REGARDS TO THE CONTRACTORS FUNCTIONS. THE SCOPE OF WORK, OR ANY OTHER ISSUE RELATED TO THIS PROJECT SHALL BE BROUGHT UP DURING THE BID PERIOD WITH THE PROJECT MANAGER FOR CLARIFICATION, NOT AFTER THE CONTRACT HAS BEEN AWARDED.
- LOCATION OF EQUIPMENT, CONDUIT AND DEVICES SHOWN ON THE DRAWINGS ARE APPROXIMATE AND SHALL BE COORDINATED WITH FIELD CONDITIONS PRIOR TO ROUGH-IN.
- THE CONDUIT RUNS AS SHOWN ON THE PLANS ARE APPROXIMATE. EXACT LOCATION AND ROUTING SHALL BE PER EXISTING FIELD CONDITIONS.
- PROVIDE PULL BOXES AND JUNCTION BOXES WHERE SHOWN OR REQUIRED BY NEC.

ELECTRICAL NOTES (CON'T)

- ALL CONDUITS SHALL BE MET WITH BENDS MADE IN ACCORDANCE WITH NEC TABLE 346-10. NO RIGHT ANGLE DEVICE OTHER THAN STANDARD CONDUIT ELBOWS WITH 12" MINIMUM INSIDE SWEEPS FOR ALL CONDUITS 2" OR LARGER.
- ALL CONDUIT TERMINATIONS SHALL BE PROVIDED WITH PLASTIC THROAT INSULATING GROUNDING BUSHINGS.
- ALL WIRE SHALL BE "TYPE THWN, SOLID, ANNEALED COPPER UP TO SIZE 1/10 AWG (18 AND LARGER SHALL BE CONCENTRIC STRANDED) 75 DEGREE C, (167 DEGREES F), 98" CONDUCTIVITY. MINIMUM #12.
- ALL WIRES SHALL BE TAGGED AT ALL PULL BOXES, J-BOXES, EQUIPMENT BOXES AND CABINETS WITH APPROVED PLASTIC TAGS, ACTION CRAFT, BRADY, OR APPROVED EQUAL.
- ALL NEW MATERIAL SHALL HAVE A U.L. LABEL.
- CONDUIT ROUGH-IN SHALL BE COORDINATED WITH THE MECHANICAL EQUIPMENT TO AVOID LOCATION TO CONFLICTS. VERIFY WITH MECHANICAL CONTRACTOR AND COMPLY AS REQUIRED.
- ALL PANEL DIRECTORIES SHALL BE TYPEWRITTEN NOT HAND WRITTEN.
- INSTALL AN EQUIPMENT GROUNDING CONDUCTOR IN ALL CONDUITS PER THE SPECIFICATIONS AND NEC. THE EQUIPMENT GROUNDING CONDUCTORS SHALL BE BONDED AT ALL JUNCTION BOXES, PULLBOXES, AND ALL DISCONNECT SWITCHES, STARTERS, AND EQUIPMENT CABINETS.
- THE CONTRACTOR SHALL PREPARE AS-BUILT DRAWINGS. DOCUMENT ANY AND ALL WIRING AND EQUIPMENT CONDITIONS AND CHANGES WHILE COMPLETING THIS CONTRACT. SUBMIT AT SUBSTANTIAL COMPLETION.
- ALL DISCONNECT SWITCHES AND OTHER CONTROLLING DEVICES SHALL BE PROVIDED WITH ENGRAVED PHENOLIC NAMEPLATES INDICATING EQUIPMENT CONTROLLED, BRANCH CIRCUITS INSTALLED ON, AND PANEL FIELD LOCATIONS FED FROM (NO EXCEPTIONS.) PROVIDE SAMPLE FOR CONSTRUCTION MANAGER'S APPROVAL.
- ALL ELECTRICAL DEVICES AND INSTALLATIONS OF THE DEVICES SHALL COMPLY WITH (ADA) AMERICANS WITH DISABILITIES ACT AS ADOPTED BY THE APPLICABLE STATE.
- PROVIDE CORE DRILLING AS NECESSARY FOR PENETRATIONS OR RISERS THROUGH BUILDING. DO NOT PENETRATE STRUCTURAL MEMBERS WITHOUT CONSTRUCTION MANAGERS APPROVAL. SLEEVES AND/OR PENETRATIONS IN FIRE RATED CONSTRUCTION SHALL BE PACKED WITH FIRE RATED MATERIAL WHICH SHALL MAINTAIN THE FIRE RATING OF THE WALL OR STRUCTURE. FILL FOR FLOOR PENETRATIONS SHALL PREVENT PASSAGE OF WATER, SMOKE, FIRE AND FUMES. ALL MATERIAL SHALL BE UL APPROVED FOR THIS PURPOSE.
- ELECTRICAL CHARACTERISTICS OF ALL EQUIPMENT (NEW AND EXISTING) SHALL BE FIELD VERIFIED WITH THE OWNER'S REPRESENTATIVE AND EQUIPMENT SUPPLIER PRIOR TO ROUGH-IN OF CONDUIT AND WIRE. ALL EQUIPMENT SHALL BE PROPERLY CONNECTED ACCORDING TO THE NAMEPLATE DATA FURNISHED ON THE EQUIPMENT (THE DESIGN OF THESE PLANS ARE BASED UPON BEST AVAILABLE INFORMATION AT THE TIME OF DESIGN AND SOME EQUIPMENT CHARACTERISTICS MAY VARY FROM DESIGN AS SHOWN ON THESE DRAWINGS).
- LOCATION OF ALL OUTLET, BOXES, ETC., AND THE TYPE OF CONNECTION (PLUG OR DIRECT) SHALL BE CONFIRMED WITH THE OWNER'S REPRESENTATIVE PRIOR TO ROUGH-IN.



H-FRAME ELEVATION DETAIL
NOT TO SCALE

LANDTECH PROJECT NUMBER: 1231202

REV.	DATE	DESCRIPTION	REQ. BY	BY
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DE81XC020

SITE NAME:

CROSS POINTE CHURCH

SITE ADDRESS:

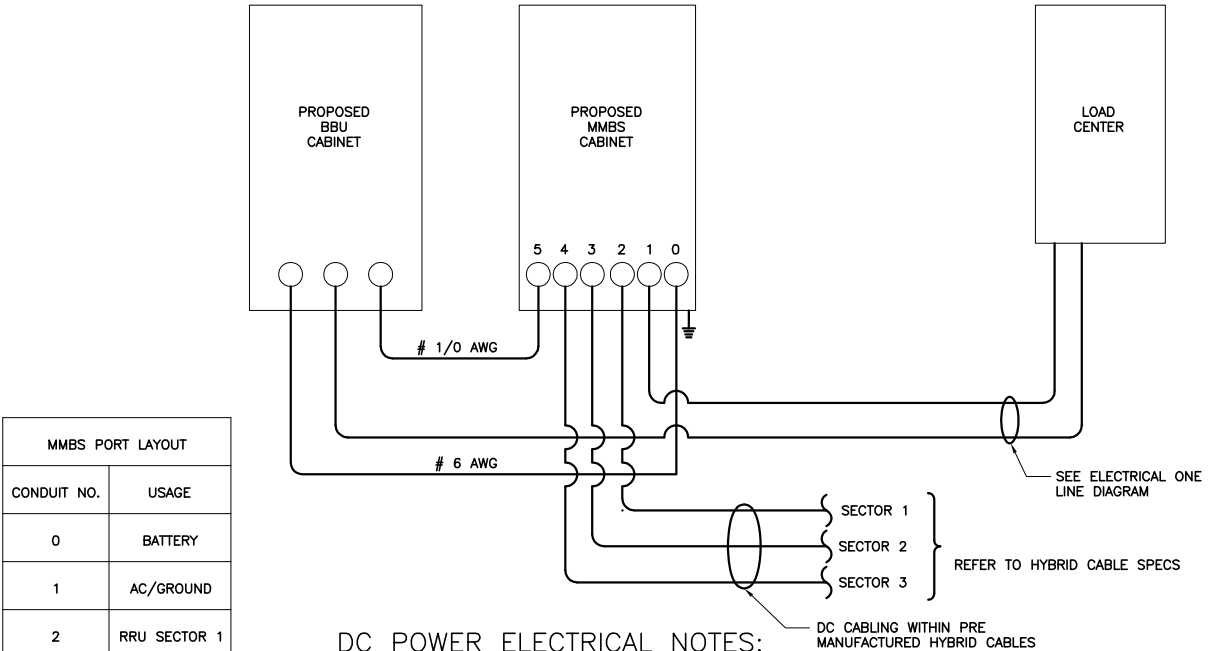
21336 MACK AVENUE
GROSSE POINTE WOODS,
MICHIGAN 48236

Sheet Title:

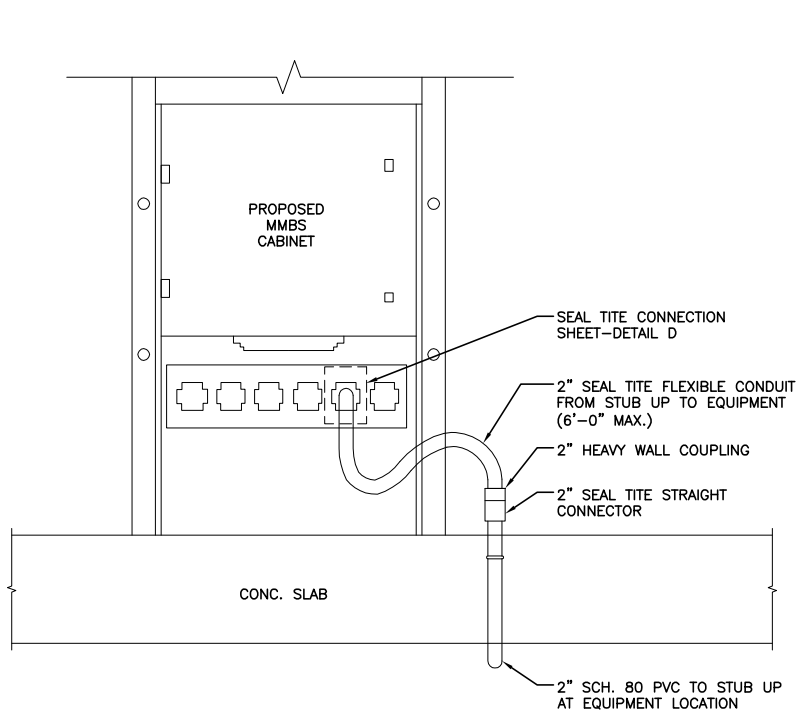
ELECTRICAL NOTES
& DETAILS

Sheet Number:

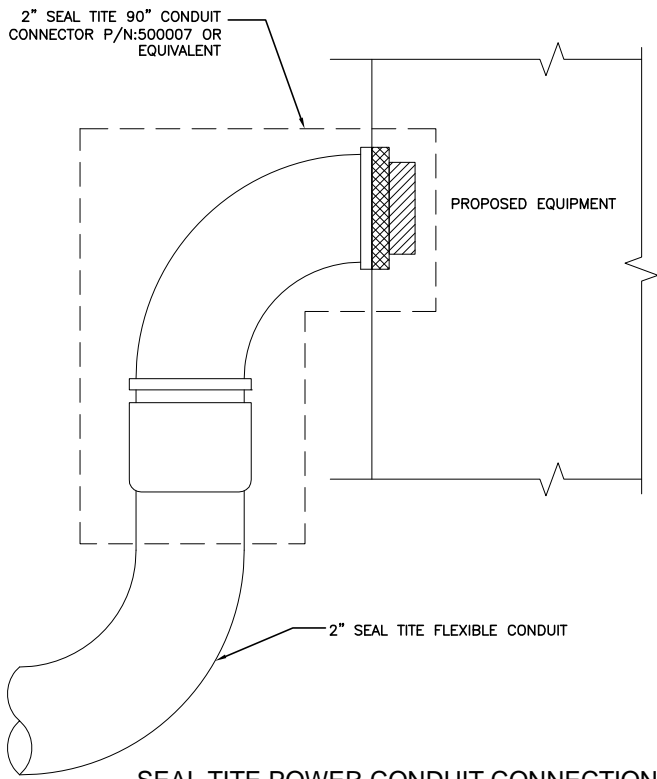
E-1



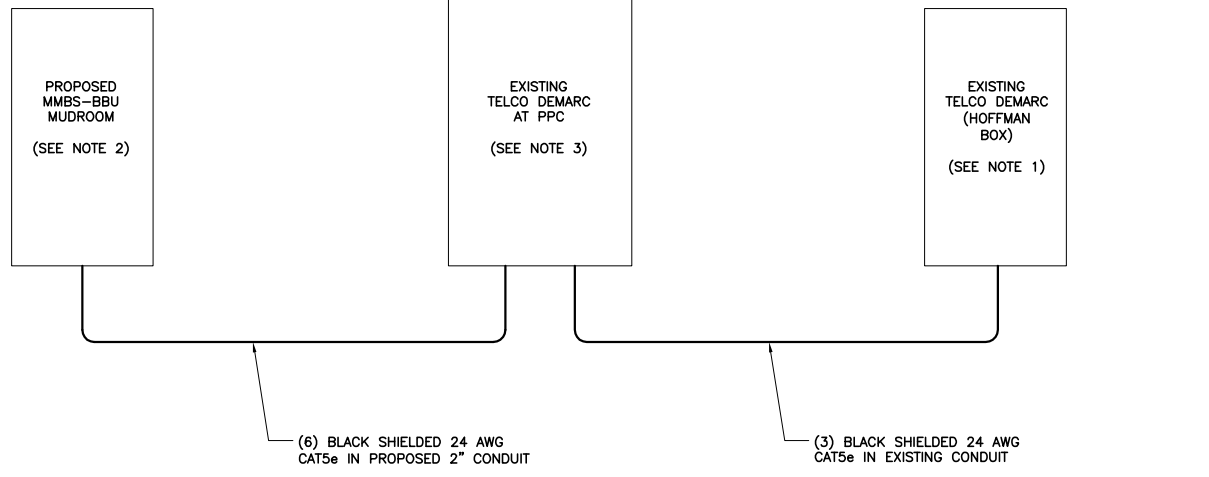
DC POWER DIAGRAM



EQUIP. POWER CONDUIT CONNECTIONS

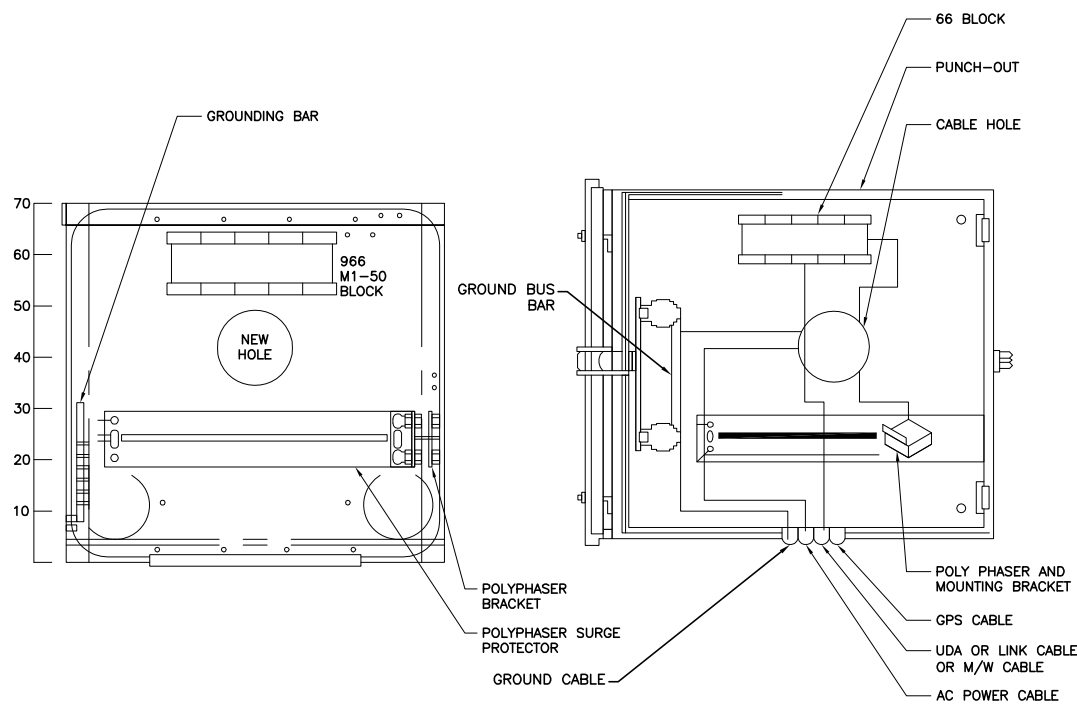


SEAL TITE POWER CONDUIT CONNECTION



NOTES:

1. CONTRACTOR TO INSTALL NEW 66 BLOCK IN EXISTING HOFFMAN BOX AT SITES MAIN TELCO DEMARC.
2. CONTRACTOR SHALL INSTALL RJ-45 ENDS ON ALL RUNS OF CAT5e INTO MMBS-BBU MUDROOM.
3. CONTRACTOR TO INSTALL NEW 66 BLOCK IN EXISTING GELCO BOX NEXT TO EXISTING PPC CABINET.



MUDROOM ELECTRICAL DETAIL

LANDTECH PROJECT NUMBER: 1231202

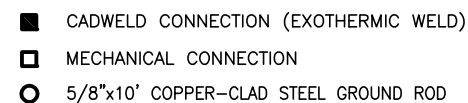
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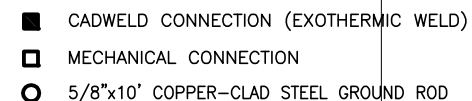
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SITE ADDRESS:
**21336 MACK AVENUE
GROSSE POINTE WOODS,
MICHIGAN 48236**

Sheet Title:
**ELECTRICAL NOTES
& DETAILS**

Sheet Number:
E-2

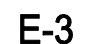


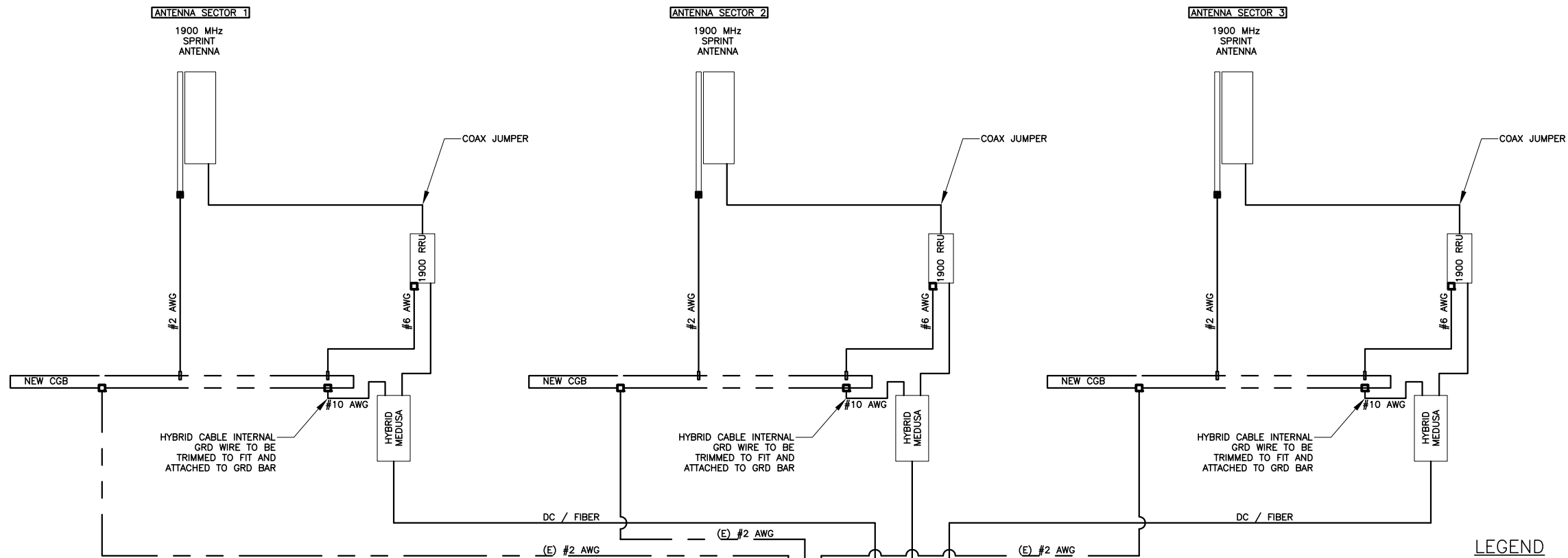
ANTENNA GROUNDING PLAN



EQUIPMENT GROUNDING PLAN

1. EXOTHERMIC WELDS (2). 2 AWG TINNED SOLID COPPER CONDUCTORS TO GROUNDING BAR. ROUTE CONDUCTORS TO BURIED GROUNDING RING AND PROVIDE PARALLEL EXOTHERMIC WELD.
2. EC SHALL USE PERMANENT MARKER TO DRAW THE LINES BETWEEN EACH SECTION AND LABEL EACH SECTION ("P", "A", "N", "I") WITH 1" HIGH LETTERS.
3. ALL HARDWARE 18-8 STAINLESS STEEL, INCLUDING LOCK WASHERS, COAT ALL SURFACES WITH AN ANTI-OXIDANT COMPOUND BEFORE MATING. ALL HARDWARE SHALL BE STAINLESS STEEL 3/8 INCH DIAMETER OR LARGER.
4. FOR GROUND BOND TO STEEL ONLY: INSERT A CADMIUM FLAT WASHER BETWEEN LUG AND STEEL. COAT ALL SURFACES WITH AN ANTI-OXIDANT COMPOUND BEFORE MATING.
5. NUT & WASHER SHALL BE PLACED ON THE FRONT SIDE OF THE GROUNDING BAR AND BOLTED ON THE BACK SIDE. INSTALL BLACK HEAT-SHRINKING TUBE, 600 VOLT INSULATION ON ALL GROUNDING TERMINATIONS. THE INTENT IS TO WEATHERPROOF THE COMPRESSION CONNECTION.
6. NUMBER OF GROUNDING BARS MAY VARY DEPENDING ON THE TYPE OF TOWER, ANTENNA LOCATION, AND CONNECTION ORIENTATION. PROVIDE AS REQUIRED.
7. GROUNDING KIT SHALL BE TYPE AND PART NUMBER AS SUPPLIED OR RECOMMENDED BY CABLE MANUFACTURER.
8. WEATHERPROOFING SHALL BE TYPE AND PART NUMBER AS SUPPLIED OR RECOMMENDED BY CABLE MANUFACTURER.
9. SUPPLIED AND INSTALLED BY CONTRACTOR.
10. WHEN THE SCOPE OF WORK REQUIRES THE ADDITION OF A GROUNDING BAR TO AN EXISTING TOWER, THE SUBCONTRACTOR SHALL OBTAIN APPROVAL FROM THE TOWER OWNER PRIOR TO MOUNTING THE GROUNDING BAR TO THE TOWER.
11. EXTEND TWO (2) 2 AWG TINNED CU CONDUCTOR FROM BURIED GROUNDING RING AND CONNECT TO THE PROPOSED TOWER. FOLLOW MANUFACTURERS RECOMMENDATIONS FOR GROUNDING CONNECTIONS TO THE TOWER. (APPLICABLE TO NEW TOWERS ONLY.)
12. NUMBER OF GROUNDING BARS MAY VARY DEPENDING ON THE TYPE OF TOWER, ANTENNA LOCATION, AND CONNECTION ORIENTATION. THE SUBCONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING ADDITIONAL GROUNDING BARS AS REQUIRED, PROVIDING 50% SPARE CONNECTION POINTS.
13. EXPOSED GROUND WIRES TO BE IN NON-METALLIC LIQUID TIGHT.



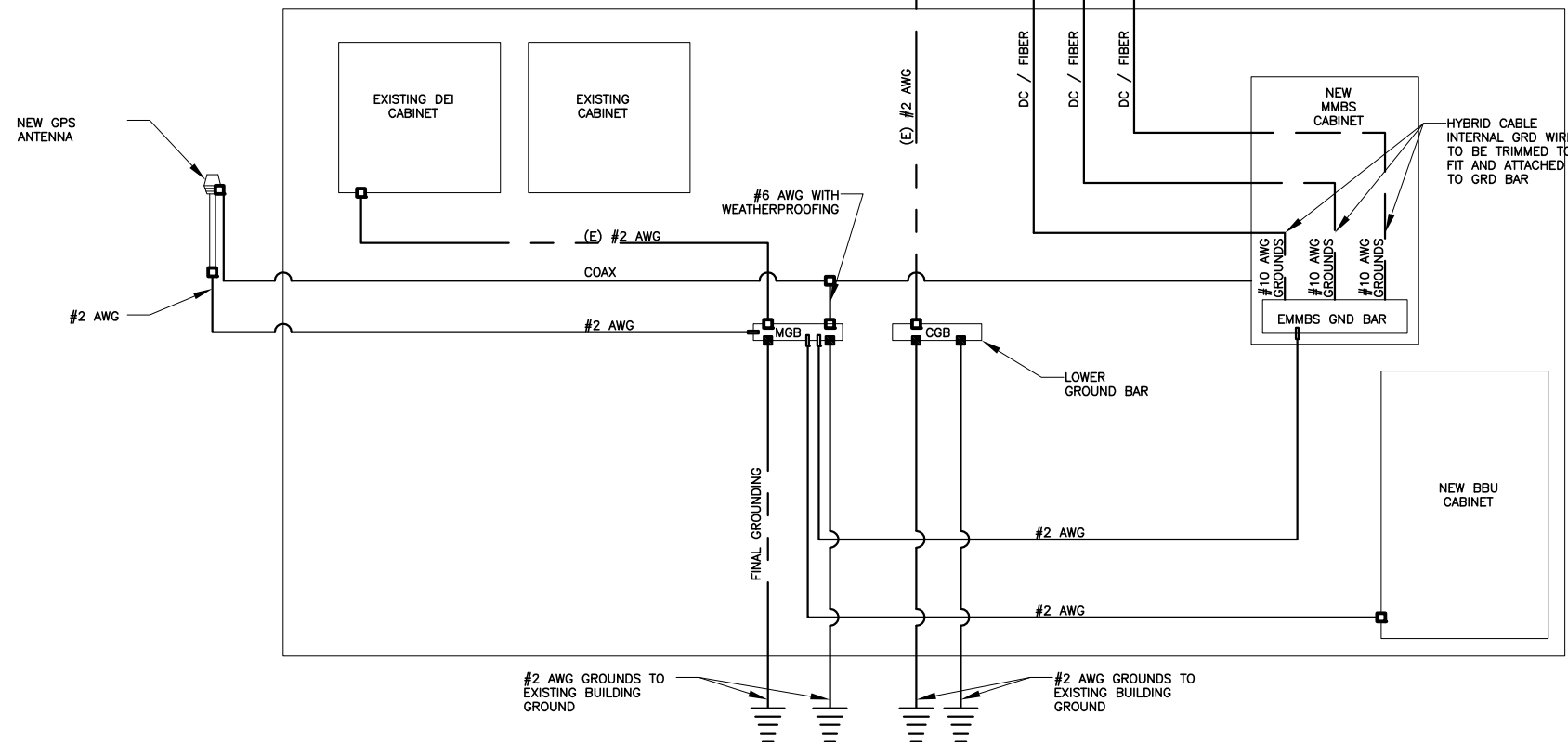


LEGEND

- EXOTHERMIC CONNECTION
- MECHANICAL CONNECTION
- COMPRESSION CONNECTION
- CGB COLLECTOR GROUND BAR
- MGB EXTERNAL GROUND BAR

GROUNDING NOTES

1. ALL GROUNDING CONNECTIONS SHALL BE MADE BY EXOTHERMIC WELDS. EXOTHERMIC WELDS SHALL INCLUDE ALL CABLE TO CABLE, SPLICES, ETC. ALL CABLE TO GROUND RODS, GROUND RODS SPLICES AND LIGHTING PROTECTIONS SYSTEM AS INDICATED. GROUND FOUNDATION ONLY AS INDICATED BY PM. ALL MATERIALS USED (MOLDS, WELDING, METAL, TOOLS, ETC.) SHALL BE EXOTHERMIC WELDED AND INSTALLED PER MANUFACTURERS RECOMMENDATIONS AND PROCEDURES. GROUND CONDUCTOR SHALL HAVE A MINIMUM 24" BENDING RADIUS.
2. ALL EXOTHERMIC WELD CONNECTIONS ON GALVANIZED SURFACES SHALL BE CLEANED THOROUGHLY AND COLORED TO MATCH SURFACE WITH (2) TWO COATS OF GALVITE (WHITE) PAINT. OR SILVERBRITE (ALUMINUM).
3. ALL ELECTRICAL & MECHANICAL GROUND CONNECTIONS SHALL HAVE ANTIOXIDANT COMPOUND APPLIED TO CONNECTION.
4. GROUND TESTS SHALL BE PERFORMED AS REQUIRED BY SPRINT STANDARD PROCEDURES. GROUND GRID RESISTANCE SHALL NOT EXCEED 5-OHMS.
5. CONTRACTOR SHALL SUBMIT THE GROUND RESISTANCE TEXT REPORT AS FOLLOW:
 1. ONE (1) COPY TO OWNER REPRESENTATIVE
 2. ONE (1) COPY TO ENGINEER
 3. ONE (1) COPY TO KEEP INSIDE EQUIPMENT INCLOSURE
6. ALL RADIO EQUIPMENT AND UTILITY CABINETS GROUNDS LEADS TO BE #2 AWG STRANDED GREEN JACKETED FROM BUSS TERMINAL.
7. FOR ADDITIONAL GROUNDING NOTES SEE N-1 OR N-2.
8. ALL ANTENNA MOUNT GROUNDS SHALL BE #2 AWG STRANDED GREEN JACKETED CABLE GROUNDS SHALL BE BLACK FROM MFR.
9. ALL GROUND WIRES FROM GROUND BARS TO GROUND SHALL BE #2 AWG SOLID BARE AS REQUIRED.
10. ALL ABOVE GROUND WIRES SHALL BE GREEN JACKETED. ALL GROUND WIRE'S PENETRATING INTO GROUND AND BELOW SHALL BE SOLID BARE.



LANDTECH PROJECT NUMBER: 1231202

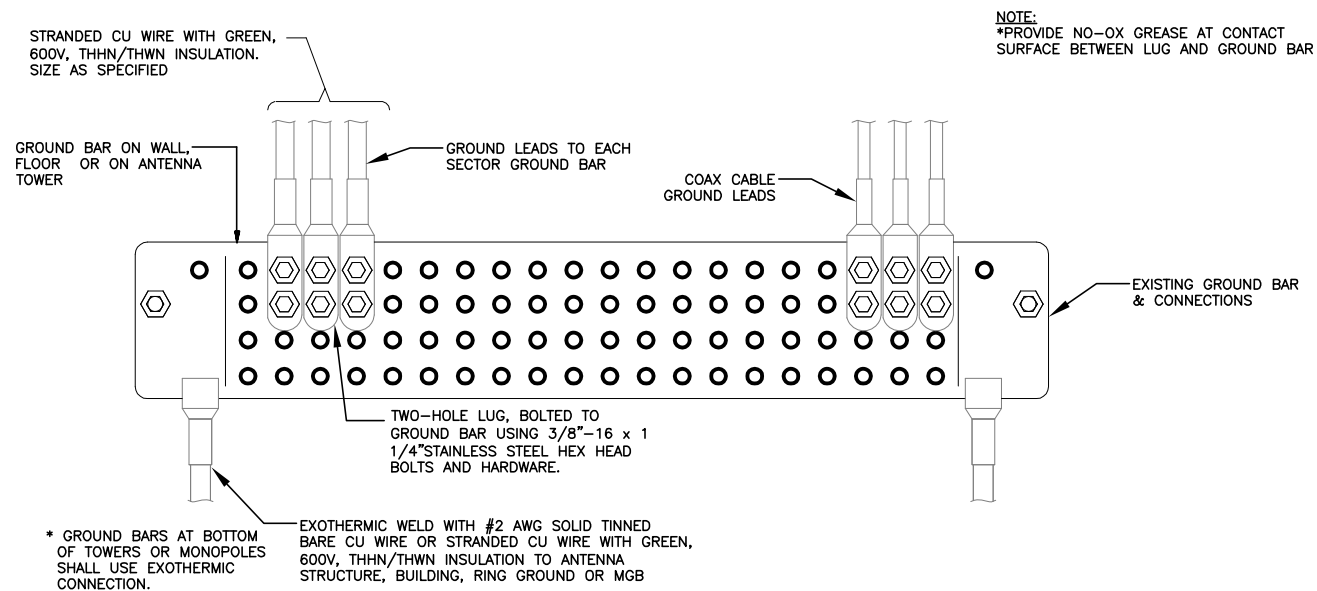
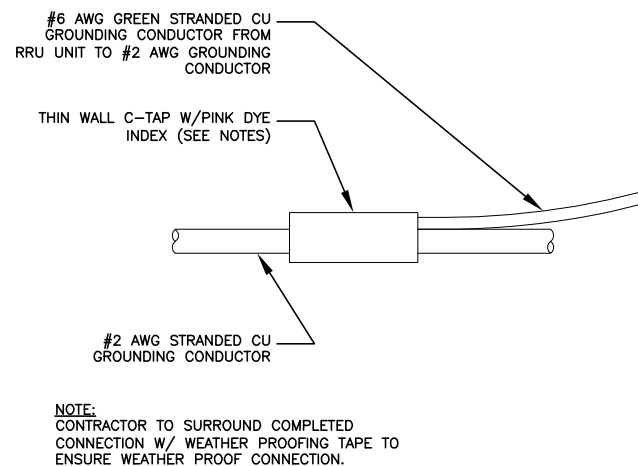
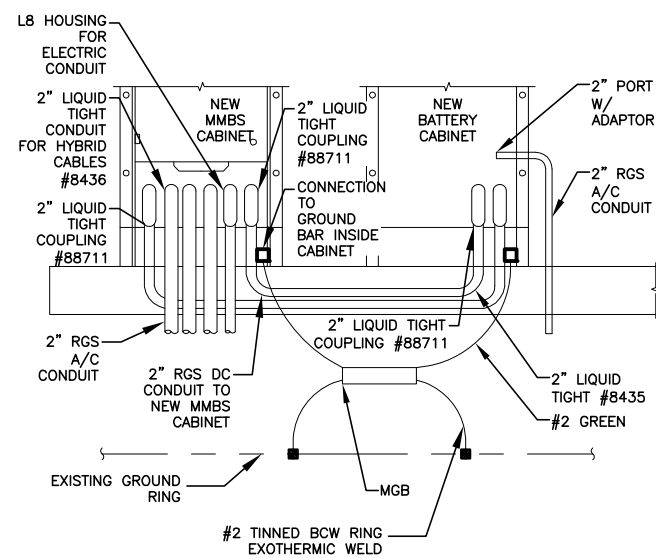
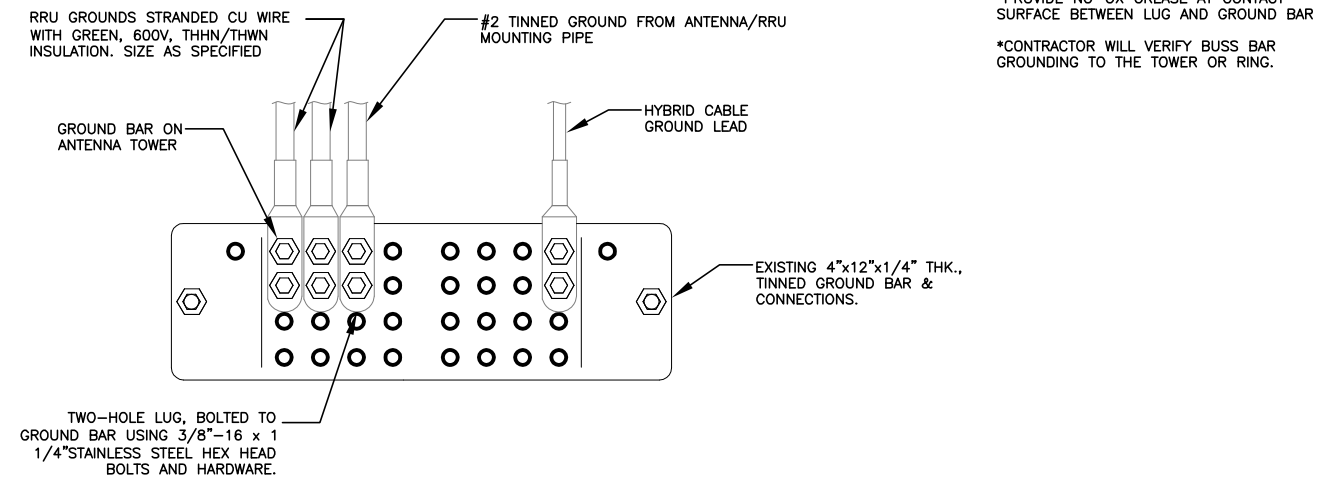
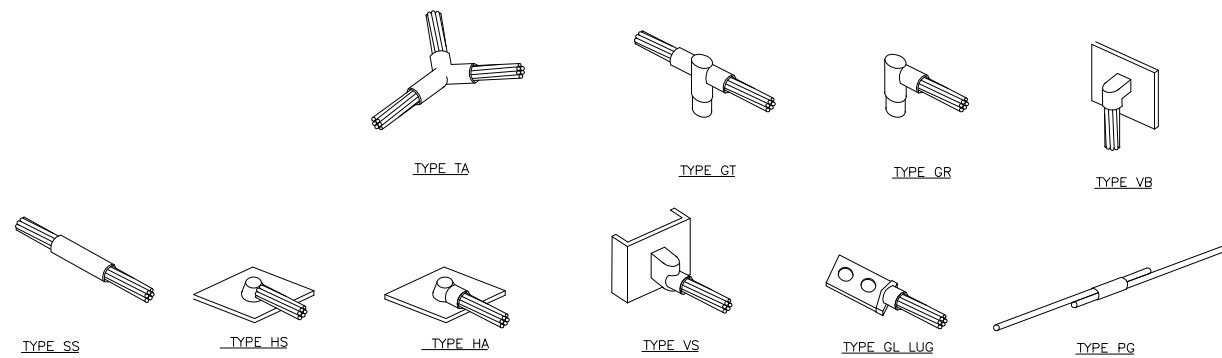
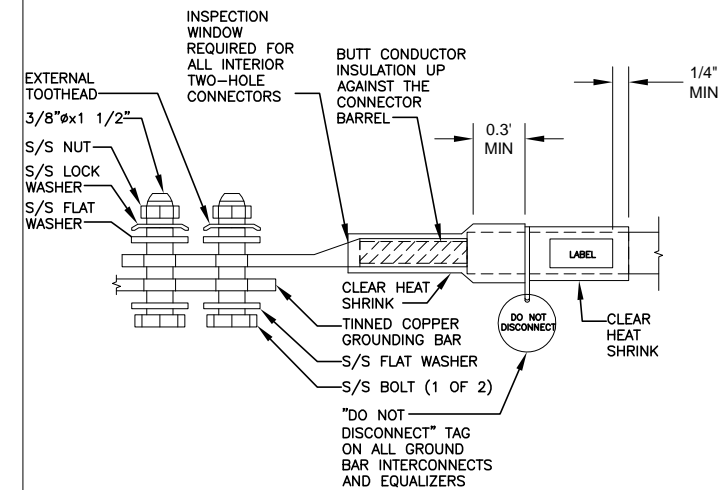
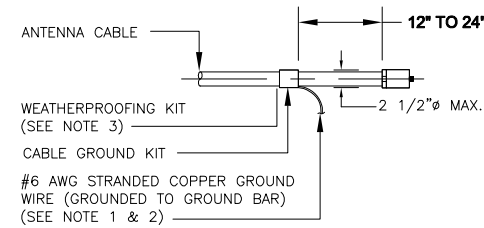
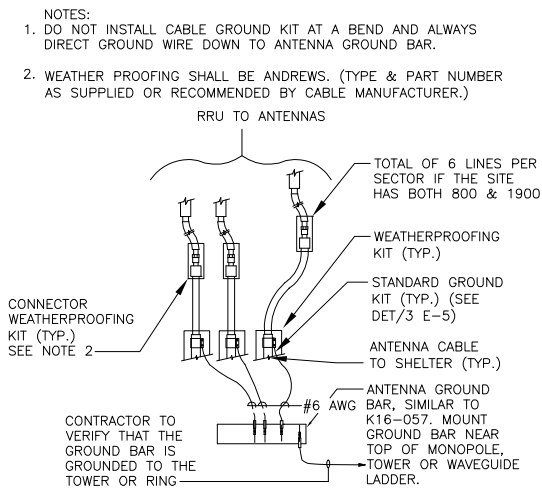
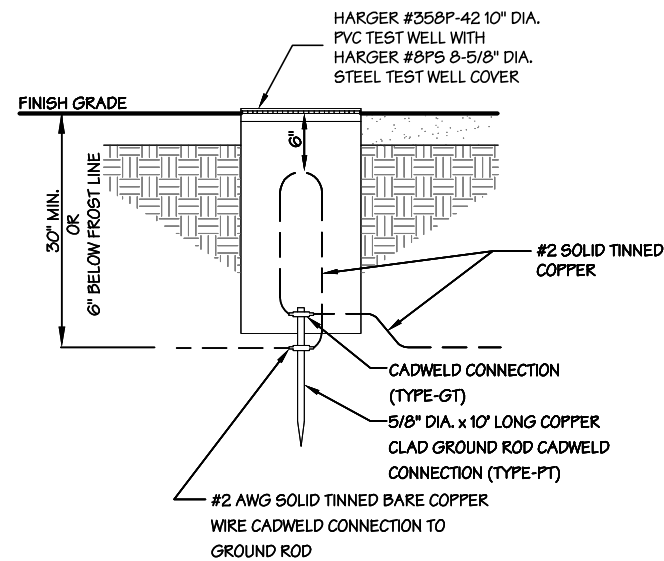
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CROSS POINTE CHURCH
SITE ADDRESS:
**21336 MACK AVENUE
GROSSE POINTE WOODS,
MICHIGAN 48236**

Sheet Title:
**GROUNDING
DETAILS**

Sheet Number:
E-4



[illegible]

7500 COLLEGE BLVD, SUITE 300
OVERLAND PARK, KS 66210



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21336 MACK AVENUE
GROSSE POINTE WOODS
MICHIGAN 48236

PPC DETAILS

PP-1



- NOTES:
1. UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS ARE IN INCHES.
 2. MATERIAL: ALUM ALLOY CONSTRUCTION
 3. FINISH: LILLY INDUSTRIES TGIC POLYESTER POWDER COAT ULTRA LIGHT GREY.

PLANNING COMMISSION
07/23/13

Under New Business the following items were discussed:

- Building Official Tutag stated that he received an application for a Wireless Communications Tower on the steeple of Crosspointe Church on Old Eight Mile, and recommended a public hearing be set for the next meeting.

Motion by Gilezan, seconded by Vaughn, that the Planning Commission schedule a **Public Hearing for the Sprint PCS Wireless Communications Tower Site Plan Review on August 27, 2013.**

MOTION CARRIED by the following vote:

YES: Evola, Fuller, Gilezan, Hamborsky, Vaughn, Vitale

NO: None

ABSENT: Rozycki, Stapleton

**CITY OF GROSSE POINTE WOODS
BUILDING DEPARTMENT
MEMORANDUM**

TO: Planning Commission
FROM: Gene Tutag, Building Official
DATE: August 07, 2013
SUBJECT: Special Land Use and Site Plan Review
Construction of a Wireless Communications Facility (WCF)
Crosspointe Church, 21337 Mack Avenue

PETITIONER: Sprint PCS by Haley Law Firm PLC

Sprint PCS ("Sprint") has submitted the attached application for the construction of a Wireless Communications Facility (WCF) at 21336 Mack Avenue. The project has been reviewed for completeness.

In accordance with Section 50-619(b)(1) the application has been submitted to the City Building Official. A review of the application indicates that the plans do comply with applicable sections of Grosse Pointe Woods Ordinance, Article VI Wireless Communication (copy attached).

The application submittal includes:

1. Project summary received July 19, 2013
2. Plan Sheets T-1, N-1, N-2, S-1, S-2, C-1, C-2, C-3, C-4, C-5, C-6, C-7, L-1, RF-1, E-1, E-2, E-3, E-4, E-5, PP-1, and PP-2 dated 08/06/13
3. Photo Sims Sheets PS-1, PS-2, PS-3 and PS-4 dated 12/26 12
4. Building Permit Application received July 19, 2013
5. Electronic submission (CD) received August ,7 2013

The application is being submitted to the Planning Commission for a public hearing and recommendation to the City Council as required by Section 50-620(c)(1) *No variance required*. No variances are required.

Project Description: Sprint is requesting a Special Use Permit to install a Wireless Communication Facility at Cross Pointe Church. The wireless facility would include the installation of three (3) 54" inch tall antennas and one (1) dummy antenna (for aesthetics) 81' above grade on the existing steeple. The antenna will be painted the same color as the steeple.

Ground-mounted equipment would be installed on a concrete slab within an approximately 240 square foot lease area located on the south side of the church. The equipment area will be shielded from view with landscaping. The ground-mounted

equipment would include two 6' tall by 2'6" inch wide equipment cabinets and electrical panels. Access to this area once constructed will be on foot, no vehicles will be used to service or maintain the equipment area once it is operational. A single flood light is shown on the plans and will only be used as needed for maintenance of equipment. It will be shielded and directed at the equipment area.

Zoning: Pursuant to Section 50-618(e)(2) WCFs are permitted as special land uses in the Community Facility District which the subject property is zoned as follows:

(2) Residential and Community Facility Districts, but only if all of the following applies:

- a. The application shows and the council is satisfied that the facility cannot be located in a C commercial business district.
- b. The design involves a steeple, bell tower, other ATS's or tower harmonious with the site (e.g. church steeple, school tower).
- c. The most recent use of property was non-residential.

The existing land use of the subject property is a church, zoned CF Community Facilities. The application is compliant with the above. Property to the south, east, and west are used as single family residential. Property to the west is commercial and office uses.

Recommendation:

In accordance with Section 50-619(b)(3), the Planning Commission's recommendation for the approval of this WCF Special Land Use and Site Plan Review request shall be forwarded in writing to the City Council for action based upon the following findings of fact:

1. That the installation is consistent with Section 50-615(a), which states: It is the general purpose and intent of the city to carry out the will of the United States Congress by authorizing communication facilities needed to operate wireless communication systems as may be required by law. However, it is the further purpose and intent of the city to provide for such authorization only in a manner which will retain the integrity of neighborhoods and the character, with property values and aesthetic quality of the community at large. In fashioning and administering the provisions of this article, an attempt has been made to balance these potentially competing interests.
2. That the siting of the antenna on an existing church steeple is consistent with Section 50-618(e)(2)b.
3. That the installation of the WCF is compatible with the church and surrounding area.
4. That the installation of the WCF will eliminate any visual intrusion and impact of a typical WCF tower installation.
5. That no other structures or alternative means of satisfying service needs are found in this area of the City.

**THE CITY OF GROSSE POINTE WOODS
PLANNING COMMISSION RESOLUTION
RECOMMENDING DENIAL OF
SPRINT COMMUNICATION FACILITY**

WHEREAS, SPRINT on behalf of owner Cross Pointe Church (hereafter "Sprint") has filed an application under the Wireless Communication Facilities (WCF) ordinance to construct a WCF at 21336 Mack Avenue, Grosse Pointe Woods; and,

WHEREAS, SPRINT's application is now before the Planning Commission for consideration of the application under the WCF ordinance; and,

WHEREAS, the WCF ordinance provides that the application shall be reviewed in accordance with the conditions of the WCF ordinance as a special land use; and,

WHEREAS, the WCF ordinance requires written recommendation to the City Council regarding the application; and,

WHEREAS, at a public hearing held on August 27, 2013 the Planning Commission reviewed SPRINT's application, site plan, and all supporting documents which have been received and placed on file as part of the public hearing.

NOW THEREFORE IT IS HEREBY RESOLVED AS FOLLOWS:

I. Site Plan Resolution. Pursuant to Sec. 50-37, the Planning Commission has reviewed the site plan together with the supporting documents. Since further review is required by the City Council, the Planning Commission does not recommend approval of the site plan. The findings and reasons for this recommendation are contained further in this Resolution.

II. Special Land Use Resolution. IT IS FURTHER RESOLVED that SPRINT's application has been reviewed under the terms of the WCF ordinance as a special land use. Pursuant to 50-620, the Planning Commission finds that the application has not met the criteria for consideration as a WCF as a special land use as follows:

- (a) the applicant has not demonstrated that there is no reasonable means of satisfying the service needs of the system through adaptation or addition to facilities inside or outside the City;
- (b) the applicant has not shown that there is no feasible alternative or other means of satisfying the service needs;
- (c) the applicant has not shown that the WCF is of a form which is compatible with the existing character of the proposed site, neighborhood and general area;
- (d) the applicant has not shown that the WCF is capable of supporting collocation of other WCF's and appropriate agreements will be in place to permit collocation.

III. WCF Ordinance Resolution. IT FURTHER RESOLVED that pursuant to Sec. 50-619(b)(3), which requires a recommendation on the WCF application as a whole, the

Planning Commission does not recommend approval of SPRINT's application to the City Council.

The factual findings and reasons for these recommendations are based on the record and supporting documentation submitted to the City as of this date including the agenda items received and placed on file at the ZBA hearing and this hearing, as well as the comments and representations made at the public hearing before this body on August 27, 2013 including but not limited to the following;

1. The need for a site in the proposed location has not been sufficiently documented by the applicant.
2. The proposed location of the facility is not the only location that will not interfere with the safe day to day operation of the facility.
3. The applicant has not demonstrated that there is no reasonable means of satisfying the service needs of the system through adaptation of or addition to existing facilities inside or outside the municipal boundaries of the city.
4. All relevant requirements of Article VI Wireless Communication Facilities have not been met by the applicant.

IV. Immediate Consideration: Having reviewed this Resolution, the Planning Commission moves for immediate adoption of this Resolution.

AYES:

NAYS:

RESOLUTION DECLARED ADOPTED.

City Clerk

CERTIFICATION

I, _____, Clerk of the City of Grosse Pointe Woods, do hereby certify that the foregoing constitutes a true and complete copy of a resolution adopted by the Planning Commission on August 27, 2013, and that said meeting was conducted and public notice of said meeting was given pursuant to and in full compliance with the Open Meetings Act being Act 267, Public Acts of Michigan, 1976, and that the minutes of said meeting have been kept and will be, or have been, made available as required by said Act.

City Clerk

**THE CITY OF GROSSE POINTE WOODS
PLANNING COMMISSION RESOLUTION
RECOMMENDING APPROVAL OF
SPRINT COMMUNICATION FACILITY**

WHEREAS, SPRINT on behalf of owner Cross Pointe Church (hereafter "Sprint") has filed an application under the Wireless Communication Facilities (WCF) ordinance to construct a WCF at 21336 Mack Avenue, Grosse Pointe Woods; and,

WHEREAS, SPRINT's application is now before the Planning Commission for a public hearing and consideration of the application under the WCF ordinance; and,

WHEREAS, the WCF ordinance provides that the application shall be reviewed in accordance with the conditions of the WCF ordinance as a special land use; and,

WHEREAS, the WCF ordinance requires written recommendation to the City Council regarding the application; and,

WHEREAS, at a public hearing held on August 27, 2013 the Planning Commission reviewed SPRINT's application, site plan, and all supporting documents which have been received and placed on file as part of the public hearing.

NOW THEREFORE IT IS HEREBY RESOLVED AS FOLLOWS:

I. Site Plan Resolution. Pursuant to Sec. 50-37, the Planning Commission has reviewed the site plan together with the supporting documents. Since further review is required by the City Council, the Planning Commission recommends approval of the site plan. The findings and reasons for this recommendation are contained further in this Resolution.

II. Special Land Use Resolution. IT IS FURTHER RESOLVED that SPRINT's application has been reviewed under the terms of the WCF ordinance as a special land use. Pursuant to 50-620, the Planning Commission finds that the application has met the criteria for consideration as a WCF as a special land use as follows:

- (a) the applicant has demonstrated that there is no reasonable means of satisfying the service needs of the system through adaptation or addition to facilities inside or outside the City;
- (b) there is no feasible alternative or other means of satisfying the service needs;
- (c) the WCF is of a form which is compatible with the existing character of the proposed site, neighborhood and general area;
- (d) the WCF is capable of supporting collocation of other WCF's and appropriate agreements will be in place to permit collocation.

III. WCF Ordinance Resolution. IT FURTHER RESOLVED that pursuant to Sec. 50-619(b)(3), which requires a recommendation on the WCF application as a whole, the Planning Commission recommends approval of SPRINT's application to the City Council.

The factual findings and reasons for these recommendations are based on the record and supporting documentation submitted to the City as of this date including the agenda items received and placed on file at the ZBA hearing and this hearing, as well as the comments and representations made at the public hearing before this body on August 27, 2013 including but not limited to the following;

1. That the installation is consistent with Section 50-615(a), which states: It is the general purpose and intent of the city to carry out the will of the United States Congress by authorizing communication facilities needed to operate wireless communication systems as may be required by law. However, it is the further purpose and intent of the city to provide for such authorization only in a manner which will retain the integrity of neighborhoods and the character, with property values and aesthetic quality of the community at large. In fashioning and administering the provisions of this article, an attempt has been made to balance these potentially competing interests.
2. That the siting of the antenna on an existing church steeple is consistent with Section 50-618(e)(2)b.
3. That the installation of the WCF is compatible with the church and surrounding area.
4. That the installation of the WCF will eliminate any visual intrusion and impact of a typical WCF tower installation.
5. That no other structures or alternative means of satisfying service needs are found in this area of the City.

IV. Immediate Consideration: Having reviewed this Resolution, the Planning Commission moves for immediate adoption of this Resolution.

AYES:

NAYS:

RESOLUTION DECLARED ADOPTED.

City Clerk

CERTIFICATION

I, _____, Clerk of the City of Grosse Pointe Woods, do hereby certify that the foregoing constitutes a true and complete copy of a resolution adopted by the Planning Commission on August 27, 2013, and that said meeting was conducted and public notice of said meeting was given pursuant to and in full compliance with the Open Meetings Act being Act 267, Public Acts of Michigan, 1976, and that the minutes of said meeting have been kept and will be, or have been, made available as required by said Act.

City Clerk

Sec. 50-579. Inspections; correction of defects.

All parking lots within the city shall be inspected from time to time as directed by the city administrator. Any failure to comply with the provisions of this article shall be reported in writing to the owner and/or operator of the parking lot to remedy such condition or make such correction. Failure to comply with any notice to remedy or correct any conditions of a parking lot may be the basis for the filing of a complaint against the owner and/or operator.
(Code 1997, § 98-400)

Sec. 50-580. Maintenance.

It shall be the duty of the owner and operator of any parking lot to maintain such lot and any greenbelt of shrubbery thereon, the barriers, entrances, exits, and surface and drainage system in a state of good repair at all times while operating such lot or permitting the use thereof.
(Code 1997, § 98-400.1)

Sec. 50-581. Noise.

The use of any loud noise-producing device or public address system shall be prohibited upon off-street parking lots permitted by this article.
(Code 1997, § 98-400.2)

Sec. 50-582. Prohibited uses.

No repairs, service to vehicles or display of vehicles for the purpose of sale shall be carried on or permitted upon such premises.
(Code 1997, § 98-400.3)

Sec. 50-583. Signs.

No sign shall be erected upon such parking lots, except not more than one sign at each entrance to indicate the operator, the purpose for which operated, and the parking rates. Such signs shall not exceed 15 square feet in area, shall not extend more than ten feet in height above the nearest curb, and shall be entirely upon the parking lots.
(Code 1997, § 98-400.4)

Secs. 50-584—50-614. Reserved.

ARTICLE VI. WIRELESS COMMUNICATIONS FACILITIES*

Sec. 50-615. Purpose.

(a) It is the general purpose and intent of the city to carry out the will of the United States Congress by authorizing communication facilities needed to operate wireless communication systems as may be required by law. However, it is the further purpose and intent of the city to provide for such authorization only in a manner which will retain the integrity of neighborhoods and the character, property values and aesthetic quality of the community at large. In fashioning and administering the provisions of this article, an attempt has been made to balance these potentially competing interests.

(b) Pursuant to the general purpose set forth in subsection (a) of this section, the goals of this article are to:

- (1) Permit the location of wireless communications facilities (WCFs) in nonresidential areas and residential areas on non-residential property;
- (2) Protect residential areas and land uses from the potential adverse impact of WCFs;
- (3) Strongly encourage the joint use of existing WCF sites, prominent buildings or structures as a primary location rather than construction of additional single or multiple use WCFs;
- (4) Minimize the total number of WCFs throughout the community;
- (5) Require users of WCFs to locate them in areas where the adverse impact on the community is minimal;
- (6) Encourage users of WCFs to configure them (stealth technology) in a way that minimizes the adverse visual impact of

*State law references—Michigan telecommunications act, MCL 484.2101 et seq.; metropolitan extension telecommunications rights-of-way oversight act, MCL 484.3101 et seq.; Michigan broadband development authority act, MCL 484.3201 et seq.

the towers and antennas through careful design, siting, landscape screening, and innovative camouflaging techniques;

- (7) Consider the public health, safety and welfare as well as the safety aspect of WCFs;
- (8) Enhance the ability of the providers of telecommunications services to provide services to the community quickly, effectively, and efficiently;
- (9) Provide for the disclosure of adequate information about plans for wireless communication facilities in order to permit the city to effectively plan for the location of such facilities;
- (10) Avoid potential damage to adjacent properties from WCF failure through engineering and careful siting of towers;
- (11) Limit inappropriate physical and aesthetic overcrowding of land use activities and avoid adverse impact upon existing population, transportation systems, and other public services and facility needs;
- (12) Minimize the adverse impacts of technological obsolescence of WCFs, including a requirement to remove unused and/or unnecessary WCFs in a timely manner as hereinafter set forth;
- (13) Minimize the negative visual impact of WCFs on neighborhoods, community landmarks, historical sites and buildings, natural beauty areas and public rights-of-way. This contemplates the establishment of as few structures as reasonably feasible; utilization of collocation wherever feasible; the use of towers which are designed for compatibility; the avoidance of lattice structures that are unsightly; and consideration of alternative means of providing service such a cable microcell network using multiple low-powered transmitters/receivers attached to existing wireline systems, fiber optic or similar systems which do not require a tower.

In furtherance of these goals, the city shall give due consideration to the city's zoning ordinance

and map, existing land uses, and environmentally sensitive areas in considering sites for the location of WCFs.

(Code 1997, § 98-533; Ord. No. 778, 6-17-2002)

Sec. 50-616. Reservation of rights to require franchise.

The city is not at this time requiring a franchise for the siting of a wireless communications facilities (WCF) within the city. The city reserves the right, in accordance with applicable federal, state and local law, to require such a franchise in the future to the extent such a siting may be deemed to constitute the transacting of local business within the city. Neither issuance of a WCF authorization permit to locate a WCF under this article, nor the issuance of an annual WCF permit shall constitute a waiver of or otherwise adversely affect this reservation of rights. In addition, WCFs shall be regulated and permitted pursuant to this article and shall not be regulated or permitted as essential services, public utilities or private utilities.

(Code 1997, § 98-534; Ord. No. 778, 6-17-2002)

Sec. 50-617. Definitions.

The following words, terms and phrases, when used in this article, shall have the meanings ascribed to them in this section, except where the context clearly indicates a different meaning:

Alternative tower structure (ATS) means manmade "trees," clock towers, buildings, bell steeples, flagpoles, light poles and similar alternative-design mounting structures that will help to camouflage or conceal the presence of antennas or towers and avoid their proliferation.

Antenna means any exterior transmitting or receiving device mounted on a tower, building or structure and used in communications that radiate or capture electromagnetic waves, digital signals, analog signals, radio frequencies (excluding radar signals), wireless telecommunications signals or other communication signals.

Applicant means a wireless communications provider who has applied for a WCF authorization permit or annual WCF permit pursuant to this article.

Attached wireless communications facilities means wireless communication facilities that are affixed to existing structures, such as existing towers or ATSS, existing buildings, water tanks, utility poles, and the like. A tower proposed to be newly established shall not be included within this definition.

Collocation means the location by two or more wireless communications providers of WCFs on a common tower, building, or other structure with the view toward reducing the overall number of structures required to support wireless communication antennas within the community.

FAA means the Federal Aviation Administration.

FCC means the Federal Communications Commission.

Height means, when referring to a tower or other structure, the distance measured from the finished grade of the parcel to the highest point on the tower or other structure, including the base pad and any antenna.

Preexisting towers and antennas means any tower or antenna for which a building permit or special use permit has been properly issued prior to the effective date of the ordinance from which this article is derived, including permitted towers or antennas that have not yet been constructed so long as such approval is current and not expired.

Public rights-of-way means all public rights-of-way within the city which are owned by the city or county, either as an easement or in fee simple, including but not limited to the public rights-of-way used for streets, highways, sidewalks and alleys.

Telecommunications Act means the Telecommunications Act of 1996, 47 USC 151 et seq., as amended.

Towers means structures erected or modified to be used to support wireless communication antennas. Towers within this definition include, but shall not be limited to, monopoles, lattice towers, light poles, wood poles and guyed towers, or other structures which support WCF materials. Build-

ings principally used for purposes other than supporting antennas shall not be considered towers.

Wireless communications facilities (WCF) means and includes all towers, antennas, alternate tower structures, other support structures and accessory facilities relating to the use of the radio frequency spectrum for the purpose of transmitting or receiving radio signals. This may include, but shall not be limited to, radio towers, television towers, digital towers, telephone devices and exchanges, microwave relay facilities, telephone transmission equipment building and private and commercial mobile radio service facilities.

Wireless communications provider means any person, company, or entity providing or intending to provide wireless communication services of any kind in the city.

(Code 1997, § 98-535; Ord. No. 778, 6-17-2002)

Sec. 50-618. Applicability and location.

(a) *Preexisting towers or antennas.* Preexisting towers and preexisting antennas shall not be required to meet the application requirements of this article. However, preexisting towers and antennas not otherwise exempt from this article are still subject to the requirements of subsection (c) of this section, section 50-623, section 50-624, section 50-625 and the annual permit report requirements of this article.

(b) *New WCFs.* All new WCFs proposed to be located in the city shall be subject to these regulations, except as provided in subsection (d) of this section.

(c) *Modified WCFs.* Any modifications made to an existing WCF (including preexisting towers and preexisting antennas) shall be treated for purposes of this article as a new WCF, which requires the submission of a new application, new permitting procedure and compliance with this article as if the WCF was a new WCF, and the entire WCF, as modified, shall be subject to all of the provisions of this article.

(d) *Amateur radio station operators/receive-only antennas/municipal towers and antennas.* This article shall not govern any tower, or the installation of any antenna, that is under 20 feet

in height and is owned and operated by a federally licensed amateur radio station operator or is used exclusively for receive only antennas, nor shall it govern any municipal tower or antenna utilized by the city in connection with performing its municipal functions.

(e) *Location.* WCFs are only permitted in the following zoning districts subject to certain additional conditions set forth in this article:

- (1) C commercial business districts.
 - (2) Residential and community facility districts, but only if all of the following applies:
 - a. The application shows and the council is satisfied that the facility cannot be located in a C commercial business district.
 - b. The design involves a steeple, bell tower, other ATSS or tower harmonious with the site (e.g. church steeple, school tower).
 - c. The most recent use of property was nonresidential.
- (Code 1997, § 98-536; Ord. No. 778, 6-17-2002)

Sec. 50-619. Approval process; application for permit.

(a) *Types of permits.*

- (1) The following three separate permits are required:
 - a. A WCF authorization permit to proceed with installation, construction, operation, expansion, extension or modification of a WCF;
 - b. An annual WCF permit (section 50-625) to allow the applicant to continue to operate the WCF, which must be renewed annually. Each wireless communications provider using a WCF must submit a separate applications and be granted separate permits. Applicants receiving a WCF authorization permit are still required to obtain; and

c. A building permit as required by section 50-23, section 50-121 and article II of this chapter.

- (2) If work under a WCF authorization permit is not started within six months of the date of the permit, the permit shall be void. Once work has started under a WCF authorization permit, no changes to this article (which would require revisions to the design of the WCF) which are made after the date work has started under the WCF authorization permit shall be effective as to the WCF if construction of the WCF is completed within one year of the date of the issuance of the WCF authorization permit.

(b) *Procedure for submission and review.* All applications for a new, renewed or amended WCF authorization permit to install, construct, operate, expand, extend or modify a WCF shall be submitted for review and consideration in accordance with section 50-32 and the following:

- (1) A formal written application shall be submitted to the city building official. An application fee shall be submitted as established by the city council. The fee will be based on an amount necessary to adequately and thoroughly investigate and review the application for compliance with this article and in order that the city may have the application reviewed by technical consultants where necessary in order to ensure that all current technological considerations have been properly taken into account.
- (2) Once the application has been received and the filing fee paid, the building official shall refer the application to the city administrator for a preliminary review. The city administrator shall determine, in conjunction with the building official, whether or not the application is complete in terms of providing all necessary information required under this article in order for the planning commission to begin its determination as to whether or not a WCF authorization permit should be recommended. The city administrator shall

have the discretion to require any additional information felt appropriate and necessary for referring the matter to the planning commission for their review and consideration.

- (3) Upon submission to the planning commission by the city administrator, the planning commission shall review the application at a regular or special meeting. If it is determined by the planning commission that the application is complete, then the planning commission shall schedule a public hearing pursuant to the special approval land use procedures (sections 50-32 and 50-121) of this chapter consistent with section 50-620(c) and the general notice requirements of this chapter. Consideration of the application shall be in accordance with section 50-32 (special land use approval) except that public notice will be provided to property owners within 1,000 feet as provided by subsection (b)(5) of this section. The planning commission's recommendation shall be in writing. It shall thereafter be referred to the city council for action.
- (4) The city council shall schedule the matter for a public hearing consistent with section 50-620(c).
- (5) For purposes of this article, any special use request, variance request, or appeal of an administratively approved special use shall require public notice consistent with section 50-620(c) to all abutting property owners and all property owners of properties that are located within 1,000 feet of the property on which the proposed WCF is to be located.
- (6) The city council shall review the planning commission's recommendation and make a determination as to whether or not to approve or deny the recommendation or take other appropriate action.
- (7) If the application for a WCF authorization permit is approved, the city council shall make a determination as to the appropriate amount of a cash, irrevocable surety bond, or irrevocable letter of credit to be

kept on file with the city which will ensure that adequate funds will be available to maintain, repair or remove or repair any WCF which might be abandoned or need repair as set forth in this article. It shall be a continuing requirement of any permission given to operate a WCF in the city that the applicant keep in force any such cash deposit, irrevocable surety bond, or irrevocable letter of credit as required by the city.

(c) *Required information in WCF application.*
A WCF application shall include the following information:

- (1) A site plan prepared by an architect and engineer, both licensed in the state, shall be prepared and submitted, showing the location, size, screening and design of all buildings and structures, including fences, signage, camouflage, lighting, appearance of facility, and outdoor equipment, all of which shall be designed to conform to applicable building codes and zoning ordinances.
- (2) The site plan shall also include a detailed landscaping plan. The purpose of landscaping is to provide screening and aesthetic enhancement for the WCF base, accessory buildings and enclosure.
- (3) The application shall include a signed certification by an engineer licensed in the state with regard to the manner in which the existing or proposed WCF would fall under the most catastrophic conditions. The engineer's notes, drawings, and actual calculations will be included with the signed certification. This certification will be utilized, along with other criteria, in determining the appropriate setback to be required for the tower and other buildings, structures, and facilities.
- (4) The application shall include a description of security to be posted with the city at the time of receiving a WCF authorization permit for the WCF to ensure maintenance, repair and removal of the facil-

ity, as provided in this article. In this regard, the security shall, at the election of the city, be in the form of:

- a. Cash;
 - b. Irrevocable surety bond;
 - c. Irrevocable letter of credit; or
 - d. At the city's option, an agreement in a form approved by the city attorney and recordable at the office of the register of deeds, establishing a promise of the applicant and property owner to maintain, repair or remove the WCF in a timely manner as required by this article, with the further provision that the applicant and property owner shall be responsible for the payment of any costs and attorneys fees incurred by the city in securing maintenance, repair or removal, and any costs and attorney fees shall become a lien against the property if not paid in full when due.
- (5) The application shall also include the following information to demonstrate the need for the proposed WCF:
- a. A map showing existing and known proposed WCFs within the city, and further showing existing and known proposed WCFs within areas surrounding the borders of the city, which are relevant in terms of potential collocation or in demonstrating the need for the proposed facility. If and to the extent the information in question is on file with the city, the applicant shall be required only to update as needed.
 - b. Factual evidence supporting the need for the WCF, including justification for its height and an evaluation of alternative designs which could result in lower heights or eliminate the need for the WCF or related structures.
 - c. Soil reports from a state-licensed geotechnical engineer if the application involves towers. The soil report shall include soil boring results and statements confirming the suitability of soil conditions for the proposed use.
 - d. A report certified by a state-licensed engineer describing the collocation capabilities of the proposed WCF.
 - e. A drawing detailing the setback distance from residential areas and showing compliance with the setback requirements of this article.
 - f. A description of the surrounding area and property uses within 1,000 feet of the proposed location.
 - g. Factual evidence detailing the impact of the facility on the location of future WCFs.
- (6) A report of a state-licensed engineer, which certifies the tower constructionally accommodates the number of shared users proposed by the applicant.
 - (7) A maintenance plan and agreement as required by sections 50-620 and 50-623.
 - (8) A removal agreement signed by both the owner of the property and the applicant which states that they promise to be bound by the removal requirements of this article.
 - (9) The name, address and phone number of the person to contact for engineering, maintenance and other notice purposes. This information shall be continuously updated during all times the WCF is on the premises.
 - (10) The application fee, as established by the city council, as well as the fee required by section 50-33.
 - (11) Proof of liability insurance of the type and amount as established by the city administrator.
 - (12) A copy of a signed agreement between the land owner and the applicant, giving the applicant the right to construct and operate the WCF, and to permit future collocation at the WCF as required by the city.

The owner or duly authorized representative of all ownership interest in the land on which the WCF is proposed to be located shall sign the application and certify that the appropriate legally recordable property rights have been obtained by the applicant.

- (13) A copy of all executed agreements between the owner of the WCF and the applicant which will use the WCF, and between the applicant and any other party that the applicant requires the permission of or a license from in order to operate or use the WCF, including such agreements as are required to permit future collocation at the proposed WCF, as required by the city.
- (14) A collocation agreement executed by the owner of the proposed WCF and applicant permitting collocation at the proposed WCF, as required by the city, together with such other agreements as the city may deem necessary to permit future collocation, including those described in subsections (c)(11) and (12) of this section. Such agreement shall include an agreement to provide information about the WCF to persons interested in collocating on the WCF and to charge market rates for collocation on the WCF.
- (15) A certification by the owner of the proposed WCF and applicant that the WCF complies with all federal, state statutes, regulations and rules, and all city article.
- (16) A certification signed by the owners of the WCF and applicant that all franchises and licenses required by federal, state or local law for the construction and/or operation of a WCF in the city have been obtained and they shall file a copy of all required franchises and licenses with the planning commission.
- (17) Evidence that no existing tower, structure or alternative technology is available which would otherwise accommodate the applicant's proposed need, as provided in section 50-621(6).

(18) Evidence of the noise levels to be emitted by the WCF when in operation. Levels above 70 decibels shall not be permitted.

(19) The application shall be signed by the owner of the proposed WCF and applicant.

(Code 1997, § 98-537; Ord. No. 778, 6-17-2002)

Sec. 50-620. Authorization as special land use.

(a) *Circumstances allowing special land use treatment.*

- (1) Subject to all the standards and conditions set forth in this article, WCFs may be allowed as a special land use. In addition, though municipally owned land is exempt from the terms and conditions of this chapter, the city intends to apply these same terms and conditions (as well as any others that may be appropriate) when and if wireless communications providers request the opportunity to negotiate a lease for the siting of WCFs including towers, poles, antennas and other equipment on municipally owned land.
- (2) In the following circumstances, a proposal to establish a new WCF shall be considered as a special land use:
 - a. If, at the time of the submittal, the applicant can demonstrate that there is no reasonable means of satisfying the service needs of the system through adaptation of or addition to facilities inside or outside the municipal boundaries of the city;
 - b. If there is no feasible alternative or other means of satisfying the service needs, such as a microcell cable link or utilization of other lines, cables, facilities, or systems that would have less visual impact or would obviate the necessity of installing a tower or ATS;
 - c. If any such WCF shall be of a design such as (without limitation) a steeple, bell tower, or other form which is

compatible with the existing character of the proposed site, neighborhood and general area; and

- d. If the WCF is capable of supporting collocation of other WCFs to the extent determined by the city council, and if appropriate agreements are in place to permit collocation.

(b) *Additional conditions for permit.* If the conditions of subsection (a) of this section are satisfied, then a WCF may be permitted in the city as a special land use, upon recommendation of the planning commission and approval by the city council following public hearing as set forth in subsection (c) of this section, subject to the conditions and procedures set forth elsewhere in this chapter, and also subject to the following:

- (1) *General design and appearance.* The planning commission and city council shall, in their discretion, with respect to the design and appearance of a tower, ATS and all accessory buildings, require construction which creates harmony with the surrounding area, minimizes distraction, reduces visibility, maximizes aesthetic appearance, and ensures compatibility with surroundings.

- (2) *Federal and state standards.* Any WCF shall comply with all applicable federal and state standards relative to the environmental and safety effects of radio frequency emissions, as confirmed by submission by the applicant of a certification of compliance from an engineer licensed in the state.

- (3) *Accessory buildings.* Any accessory building must comply with section 50-526 (entitled "accessory buildings"), other applicable ordinances of the city (for example, design standards) and the following specific requirements:

- a. The building must be limited to the maximum allowable height for accessory structures and shall be no larger than necessary to accommodate the equipment and accessories.

- b. Any accessory building must be located underground unless:

- 1. The accessory building is contained totally inside an existing building;
- 2. The applicant demonstrates to the satisfaction of the building official that an underground location is not technically feasible; or
- 3. The building official allows the accessory building to be placed on a roof of a nonresidential building subject to other conditions and requirements of this article.

- c. Any accessory building located on a roof must be architecturally compatible with the principal building as determined by the building official, and must not be visible from ground level.

- d. All users of a WCF must use the same accessory building. Accordingly, any accessory building must be constructed to allow for expansion if necessary to assure that all operators use one accessory building in the event of collocation.

- e. Accessory buildings located on the ground must be constructed of brick, with gabled roof and appropriate fencing and landscaping.

- (4) *Access.* There shall be unobstructed access to the WCF, for operation, maintenance, repair and inspection purposes, which may be provided through or over an easement. This access shall have a width and location determined by such factors as:

- a. The location of adjacent thoroughfares and traffic and circulation within the site;
- b. Utilities needed to service the WCF and any attendant facilities;
- c. The location of buildings and parking facilities;

- d. Proximity to residential districts and minimizing disturbance to the natural landscape; and
 - e. The type of equipment which will need to access the site.
- (5) *Lot splits.* The division of property for the purpose of locating a wireless communication facility is prohibited unless all zoning requirements and conditions are met. No existing utilities shall be disrupted or interfered with except temporarily as may be required during construction and only then if a written agreement has been procured from the city and the utility company.
- (6) *Maintenance plan.* A maintenance plan, and any applicable maintenance agreement, shall be presented and approved as part of the site plan for the proposed facility. Such plan shall be designed to ensure long term, continuous maintenance to a reasonably prudent standard. At a minimum it will address anticipated maintenance needs for the facility, including frequency of service, personnel needs, equipment needs, access plans, and traffic, noise and safety impacts of such maintenance.
- (7) *Towers and antennas.* All towers and antennas included in the WCF must satisfy the requirements of section 50-621.
- (8) *Signs.* No signs shall be allowed on any WCF, including any antenna or tower, except safety or warning signs approved by the city.
- (9) *Transmission lines.* Transmission lines to any WCF shall be underground.
- (10) *FAA, FCC and MAC requirements.* Any requirements of the Federal Aviation Administration, Federal Communications Commission, and Michigan Aeronautics Commission shall be complied with. WCFs, including any towers and/or antennas shall not be artificially lighted, unless specifically required by the FAA or other applicable authority. If lighting is required, the

lighting alternatives, and design chosen shall cause the least disturbance to the surrounding views.

(c) *Procedures for scheduling public hearings.*

- (1) *No variance required.* If the application as submitted does not require a variance, the following procedure shall be used for scheduling of public hearings:
- a. The application will be submitted to the planning commission for a public hearing and recommendation.
 - b. The application shall be submitted to the city council for public hearing and either approval, approval with conditions, or denial.
- (2) *Variance required.* If the application as submitted requires a variance, the following procedure will be used for scheduling of public hearings:
- a. Submission to the planning commission for a recommendation.
 - b. Review by the zoning board of appeals for consideration of the variance request as specified in article II, division 5 of this chapter. If the zoning board of appeals denies the request for a variance, the application approval process is terminated. If the request for a variance is approved, then the process proceeds to subsection (c)(2)c of this section.
 - c. Review by the planning commission for recommendation.
 - d. Review by the city council for either approval, approval with conditions or denial.

(Code 1997, § 98-538; Ord. No. 778, 6-17-2002)

Sec. 50-621. Towers and antennas.

All towers and antennas shall comply with the following requirements:

- (1) Towers shall be designed to blend into natural settings and surrounding buildings and, subject to any applicable FAA standards, shall be a neutral color approved by the city.

- (2) Any support system, including the tower and ATS, shall be designed by a state-licensed structural design engineer, shall be constructed in accordance with all applicable building codes and shall include the submission of a soil report from a state licensed geotechnical engineer.
- (3) Setback for towers. Any tower must be set back a sufficient distance from any property line to protect adjoining property from potential facility failure by being large enough to accommodate to complete failure on site. Additional setback requirements are as follows:
 - a. Setback from residential. The setback from a lot used for residential purposes will be measured from the base of the tower to the nearest lot line of any lot used for residential purposes. The setback from lots used for residential purposes must be at least 300 percent of the total height of the structure and in no event less than 200 feet.
 - b. Setback from public rights-of-way. The setback from public rights-of-way must be at least equal to the height of the tower.
 - c. Setback from nonresidential buildings. The setback from nonresidential buildings must be at least equal to the height of the tower as measured from the base of the tower to the affected building.

Additional reasonable setbacks may be required depending on the proposed site.

- (4) Multiple towers shall not be permitted on a single site.
- (5) State or federal requirements. All towers, antennas, and ATSs must meet or exceed current standards and regulations of the FAA, the FCC, and any other agency of the state or federal government with the authority to regulate towers, antennas, and support structures. If such standards and regulations are changed, then the owners of the towers and antennas gov-

erned by this article shall bring such towers and antennas into compliance with such revised standards and regulations within six months of the effective date of such standards and regulations, unless a different compliance schedule is mandated by the controlling state or federal agency. Failure to bring towers, antennas, and ATSs into compliance with such revised standards and regulations shall constitute grounds for the removal of the tower, antenna or ATS at the applicant's expense.

- (6) No new tower, antenna, or ATS shall be permitted unless the applicant demonstrates to the city council after receipt of a recommendation from the planning commission that no existing tower, structure, or alternative technology is available which would otherwise accommodate the applicant's proposed antenna or need, or the city council, after receipt of a recommendation of the planning commission, determines that any collocation of the proposed antenna would have a greater impact on the community than the proposed new tower. Evidence submitted to demonstrate that no existing tower, structure or alternative technology can accommodate the applicant's proposed antenna or need may consist of the following:
 - a. No existing tower or structures are located within the geographic area which meet applicant's engineering requirements.
 - b. Existing towers or structures are not of sufficient height to meet applicant's engineering requirements and cannot be reasonably modified to accomplish same.
 - c. Existing towers or structures do not have sufficient structural strength to support applicant's proposed antenna and related equipment, and cannot be reasonably modified to accomplish applicant's needs.
 - d. The applicant's proposed antenna would cause electromagnetic inter-

ference with the antenna on the existing towers or structures, or the antenna on the existing towers or structures would cause interference with the applicant's proposed antenna.

- e. The applicant demonstrates that an alternative technology that does not require the use of towers or structures, such as cable, microcell network using multiple low-powered transmitters/receivers attached to a wireline system, etc., is unsuitable. Costs of alternative technology which exceed new tower or antenna development shall not be presumed to render the technology unsuitable.
- (7) Towers shall be no higher than required for reasonable communication, but in no event greater than 100 feet.
- (8) Towers shall be enclosed by security fencing when required by the city which shall be not less than six feet in height, nor more than eight feet in height, and shall otherwise comply with the city's articles regulating fences for the zoning district in which the tower is located.
- (9) The tower shall be equipped with an appropriate anticleimbing device.
- (10) The following requirement shall govern the landscaping surrounding a tower provided, however, that the planning commission may alter these requirements in such cases that would better serve the goals of this article:
 - a. The tower facility shall be landscaped with a buffer of plant materials that effectively screens the view of the tower base from adjacent properties and in no event shall be less than six feet in height.
 - b. Existing mature tree growth and natural land forms on the site shall be preserved to the maximum extent possible.
- (11) Attached wireless communication facilities, antenna, and supporting electrical

and mechanical equipment installed on an ATS must be of a neutral color that is identical to, or closely compatible with, the color of the ATS so as to make the antenna and related equipment as visually unobtrusive as possible.

- (12) The antenna and other attachments on a WCF shall be designed and constructed to include the minimum attachments required to operate the facility as intended at the site, both in terms of number and size of such attachments, and shall be designed and constructed to maximize aesthetic quality.
 - (13) Separation. Towers may not be closer than 1,500 feet as measured from the base of each tower or ATS. Tower separation distances shall be calculated and applied to WCFs located in the city, as compared to a WCF located in the city or outside the city, irrespective of municipal and county jurisdictional boundaries.
 - (14) Any antenna which is attached to an ATS or other structure shall not extend above the highest point of the structure unless not visible from the ground and must comply with all applicable building code requirements.
 - (15) If the antenna is on the roof of a structure, it shall be set back from the edge of the roof by a distance at least equal to its height, measured from where it is attached to the roof to the highest point of the antenna.
 - (16) Attached WCFs and antenna installed on an ATS shall incorporate the vertical design elements of the structure to which they are attached or to the ATS and, if on the roof of any structure, shall match existing roof structures, such as air conditioning units, stairs and elevator support structures.
- (Code 1997, § 98-539; Ord. No. 778, 6-17-2002)

Sec. 50-622. Collocation.

(a) *Statement of policy.* In order to minimize the proliferation of towers and the adverse visual impact associated with such proliferation and

clustering, collocation of antennas on existing towers or attached WCF shall take precedence over the construction of new towers, provided such collocation is accomplished in a manner consistent with the following:

- (1) A tower which is modified or reconstructed to accommodate the collocation of an additional antenna shall be of the same tower type as the existing tower.
- (2) If additional height is required for collocation, then the tower shall be relocated to accommodate all setback requirements required by the increased height.
- (3) The height of the structure necessary for collocation will not be increased beyond a point deemed to be permissible by the city, taking into consideration the intent and purpose of this section and other requirements of this article.
- (4) Owners of existing towers shall not be permitted to charge excessive fees for collocation.

(b) *Additional requirements.*

- (1) Collocation is required as a condition of the WCF authorization permit. No new structures are permitted unless an applicant demonstrates the inadequacy of existing facilities as provided for in this article. If a WCF provider fails or refuses to permit collocation on a facility owned or otherwise controlled by it, where collocation is feasible, the result will be that a new and unnecessary additional structure will be compelled, in direct violation of and in direct contradiction to the basic policy, intent and purpose of the city. In such a case, such facility shall thereupon and thereafter be deemed to be a nonconforming structure and use, and shall not be altered, expanded or extended in any respect.
- (2) In addition, the city may take such action as allowed by statute and ordinances to require conformity, including requiring collocation and revocation of the WCF authorization permit and the annual WCF per-

mit. The provisions of this subsection are designed to carry out and encourage conformity with the policy of the city.

- (3) Collocation of an additional WCF on an existing WCF is treated the same as construction of a new WCF, and requires compliance with all terms of this article. Each separate WCF collocated on the same tower or structure is subject separately to the requirements of this article.
 - (4) For all collocations served by an accessory building, there must be a single, architecturally uniform accessory building for all operators at the WCF.
- (Code 1997, § 98-540; Ord. No. 778, 6-17-2002)

Sec. 50-623. Maintenance and repair.

(a) As a condition of issuance of the annual WCF permit, the wireless communications provider must submit and the building official must approve a maintenance plan. The planning commission and city council shall, in its discretion, with respect to the design and appearance of the tower and all accessory buildings, require construction and maintenance which creates harmony with the surrounding area, minimizes distraction, reduces visibility, maximizes aesthetic appearance, and ensures compatibility with surroundings. It shall be the responsibility of the applicant to maintain all WCFs in a neat, safe, and orderly condition in accordance with all terms and conditions of the WCF authorization permit, annual WCF permit, applicable ordinances of the city and any applicable state or federal regulations.

(b) The landowner and wireless communications provider are jointly responsible for maintaining the site in a neat, safe and orderly condition, both during and after construction of the facility. To ensure the structural integrity of towers, a tower shall be maintained by the wireless communications providers in compliance with standards contained in applicable state and local building codes and the applicable standards for towers that are published by the electronic industries association, as amended from time to time. If, upon inspection, the city concludes that a WCF fails to comply with such codes and standards and

constitutes a danger to persons or property, then upon notice being provided to the WCF provider, the provider and landowner shall have 30 days to bring such WCF into compliance. Failure to do so shall constitute grounds for the removal of the WCF at the provider's and landowner's expense.

(c) Each facility is subject to inspection as the building official may deem necessary. At a minimum, each facility must be inspected annually, and must pass inspection as a condition of issuance of the annual WCF permit. Inspections will include an assessment not only of the structural soundness and overall safety of the facility, but will also address routine maintenance and repair issues.

(d) Failure to pass inspection at any time shall be deemed a violation of this article and subject the wireless communications provider and landowner to all actions allowed by this article and by local, state and federal law.

(e) The wireless communications provider shall be required as part of the annual permit report to submit an inspection of the WCF, inspecting such aspects of the WCF as the building official may require, certified by a structural engineer licensed in the state.

(Code 1997, § 98-541; Ord. No. 778, 6-17-2002)

Sec. 50-624. Removal of facilities.

(a) The WCF authorization permit, and the annual WCF permit for a WCF shall be revoked, and the WCF shall be removed as provided in this section, upon the occurrence of one or more of the following events:

- (1) When the WCF has not been used for 60 days or more, it will be deemed to be abandoned. For purposes of this section, the removal of antennas or other equipment from the facility, or the cessation of operations (transmission and/or reception of radio signals) shall be considered as the beginning of a period of nonuse.
- (2) Six months after new technology is available at reasonable cost as determined by the city council, which permits the operation of the communications system with-

out the requirement of the tower, or with a tower which is lower and/or more compatible with the area.

- (3) When the facility is not maintained in accordance with the standards set forth in this article and written notice of the deficiencies is delivered to the wireless communications provider and the wireless communications provider fails to correct the deficiencies within 60 days thereafter.
- (4) Any material breach of any of the conditions of the WCF construction or annual WCF permit.
- (5) Failure to file annual permit reports as created by the building official.
- (6) The WCF being operated at noise levels in excess of 70 decibels at any time.
- (7) Failure to qualify for renewal of the annual WCF permit.

(b) The situations in which removal of a facility is required, as set forth in subsection (a) of this section, may be applied and limited to portions of a facility.

(c) Upon the occurrence of one or more of the events requiring removal, or lowering of the tower, specified in subsection (a) of this section, the wireless communications provider and landowner are jointly responsible and shall immediately apply for and obtain any required demolition, reconstruction or removal permits, and immediately proceed with and complete the demolition/alteration/removal, restoring the premises to an acceptable condition as reasonably determined by the building official.

(d) If the required removal of a facility or a portion thereof has not been lawfully completed within 60 days of the applicable deadline, and after at least 30 days' written notice, the city may remove or procure the removal of the facility or required portions thereof, with its actual cost and reasonable administrative charge, plus attorney fees, to be drawn, collected and/or enforced from or under the security posted at the time application was made for establishing the facility. Notwithstanding the potential or actual recovery of costs from the bond or other security, the provider

and landowner remain jointly liable for the actual costs and administrative charges of demotion, alteration and removal.

(e) The wireless communications provider shall immediately notify the city building official in writing if and as soon as the use of a facility ceases.

(f) Any reuse of a facility after it has been abandoned will require a completely new permit process.

(g) The WCF authorization permit for any WCF, or portion thereof, which is required to be removed shall expire upon the occurrence of the event requiring removal.

(Code 1997, § 98-542; Ord. No. 778, 6-17-2002)

application. The annual report is due on the anniversary date of the date of issuance of the WCF authorization permit.

(c) *Nonassignability.* No WCF construction or annual WCF permit is assignable without the written consent of the city.

(d) *Resubmission after ten years.* After ten years of operation, the wireless communications provider and landowner must reapply for permission to continue to operate the WCF and must submit all information then required for issuance of a WCF authorization permit for a new WCF, with such exceptions to the required information as the city council may permit.

(Code 1997, § 98-543; Ord. No. 778, 6-17-2002)

Sec. 50-625. Effect and approval.

(a) *Authorization permits.* Final approval to construct a WCF shall be effective for a period of six months, and if commencement of construction has not begun by that date, the WCF authorization permit shall expire without further notice and the applicant shall have no further rights under the permit. Once construction of a facility has begun, it shall be completed within three months unless the time period is extended by the city administrator for good cause shown.

(b) *Annual permits.* Annual WCF permits may be granted annually up to ten consecutive years by the city administrator, upon recommendation of the building official. Renewal each year requires payment of a fee determined by the city council, submission of an annual report containing such information as the city administrator may require, and submission of an annual permit report in a form as may be required by the building official, certified by the wireless communications provider. The annual report shall include, at a minimum, a certification that no event has occurred requiring removal of the WCF, including abandonment or the availability of new technology, listing the wireless communications providers using the WCF and a description of their use of the facility, changes to the information about the WCF, the wireless communications provider or the owner of the property on which the WCF is located contained in the original

AFFIDAVIT OF LEGAL PUBLICATION

Grosse Pointe News

21316 Mack Ave
Grosse Pointe Woods, Michigan 48236
(313) 882-3500

COUNTY OF WAYNE
STATE OF MICHIGAN, SS.

Scott Chambers

being duly sworn deposes and says that attached

City of Grosse Pointe Woods

was duly published in accordance with instruction
the following date:

August 8, 2013

#1 GPW 8-8 PLANNING COMMISSION
and knows well the facts stated herein, and that it is
newspaper.

Scott

Subscribed and sworn to before me this 12th day

Patrice A. Thomas

PATRICE A. THOMAS
Notary Public, State of Michigan
County of Wayne
My Commission Expires 06-21-2014
Acting in the county of *Wayne*

City of ~~Grosse Pointe Woods~~, Michigan
NOTICE IS HEREBY GIVEN that the Planning Commission of the City of Grosse Pointe Woods will hold a public hearing under the provisions of Michigan Compiled Laws, Sections 125.3101 through 125.3702 as amended, to consider the application of Haley Law Firm PLC, on behalf of Sprint, 10059 Bergin Rd, Howell, MI 48843, which is requesting Special Land Use and site plan approval to construct a stealth wireless facility in the steeple of the Cross Pointe Christian Church located at 21336 Mack Avenue, Grosse Pointe Woods. Pursuant to special land use and site plan review procedures in accordance with Sections 50-32, 50-34, and 50-615 thru 50-625 of the Grosse Pointe Woods City Code of 2007, a public hearing is scheduled for Tuesday, August 27, 2013, at 7:30 p.m. in the Council Room of the Municipal Building. Agenda documents are available for inspection at the City Clerk's Office, 20025 Mack Plaza, between 8:30 a.m. and 5:00 p.m. Monday through Friday. All interested persons are invited to attend and will be given opportunity for public comment. The public may appear in person or be represented by counsel. Written comments will be received in the City Clerk's office, up to the close of business preceding the hearing. A group spokesperson is encouraged on agenda items concerning organized groups. Individuals with disabilities requiring auxiliary aids or services at the meeting should contact the Grosse Pointe Woods Clerk's Office at 313 343-2440 seven days prior to the meeting.

GPW: 8/8/2013

Lisa Kay Hathaway, MMC
City Clerk

AFFIDAVIT OF PROPERTY OWNERS NOTIFIED

Re: 21336 Mack Ave
Crosspointe Christian Church
Wireless Communications Tower

State of Michigan)
) ss.
County of Wayne)

I HEREBY CERTIFY that the notice of Hearing was duly mailed First Class Mail on August 8, 2013 to the following property owners within a 1000 foot radius of the above property in accordance with the provisions of the 2007 City Code of Grosse Pointe Woods. A Hearing fee of \$250.00 has been received and acknowledged with receipt # 700669.

Lisa Kay Hathaway
City Clerk

See attached document for complete list.

21336 Mack Ave - 1000' Radius

ownersname	ownersna_1	ownerstreet	ownercity	ownerstate	ownerzipco
MCGLORY DEDRA		1224 ALINE DR	GROSSE POINTE WOODS	MI	48236
SMITH SHERRYL L		1247 HAWTHORNE RD	GROSSE POINTE WOODS	MI	48236
CAFAGNA DOMINIC G		1271 N OXFORD RD	GROSSE POINTE WOODS	MI	48236
LOEHER CHARLES F JR	LOEHER ELIZABETH B	1305 BLAIRMOOR CT	GROSSE POINTE WOODS	MI	48236
FRIEDEL DOUGLAS B	FRIEDEL DOROTHY F	1486 BLAIRMOOR CT	GROSSE POINTE WOODS	MI	48236
WILLIAMS KATHLEEN M		1487 BLAIRMOOR CT	GROSSE POINTE WOODS	MI	48236
COLLINSON MARK	COLLINSON ANGELA	1488 EDMUNDTON DR	GROSSE POINTE WOODS	MI	48236
KORTE PETER		1489 EDMUNDTON DR	GROSSE POINTE WOODS	MI	48236
MATTES GREGORY A	MATTES JILL	1500 BLAIRMOOR CT	GROSSE POINTE WOODS	MI	48236
DUTTA CHITTA R		1500 YORKTOWN ST	GROSSE POINTE WOODS	MI	48236
BAETENS T L		1501 YORKTOWN ST	GROSSE POINTE WOODS	MI	48236
STEIGER HERBERT O		1503 BLAIRMOOR CT	GROSSE POINTE WOODS	MI	48236
PARISI PETER	PARISI VIRGINIA	1504 ALINE DR	GROSSE POINTE WOODS	MI	48236
NIXON-COLECCHIA PAMELA A		1504 BRY'S DR	GROSSE POINTE WOODS	MI	48236
VEITENGRUBER TIMOTHY		1504 EDMUNDTON DR	GROSSE POINTE WOODS	MI	48236
CONLON CHARLES B		1505 ALINE DR	GROSSE POINTE WOODS	MI	48236
AKIKI ISSAM		1507 EDMUNDTON DR	GROSSE POINTE WOODS	MI	48236
SRIGLEY BETH		1512 BRY'S DR	GROSSE POINTE WOODS	MI	48236
BLANKENHORN JUDITH		1515 ALINE DR	GROSSE POINTE WOODS	MI	48236
KOUPPARRIS COSTOS		1515 YORKTOWN ST	GROSSE POINTE WOODS	MI	48236
ALDEN LEWIS		1516 BLAIRMOOR CT	GROSSE POINTE WOODS	MI	48236
BUCKMAN JASON	BUCKMAN ERICA M	1517 BLAIRMOOR CT	GROSSE POINTE WOODS	MI	48236
MOY ROBERTA M		1520 BRY'S DR	GROSSE POINTE WOODS	MI	48236
ELLIS JAMES P		1520 EDMUNDTON DR	GROSSE POINTE WOODS	MI	48236
DYKSTRA GREGORY J		1521 BRY'S DR	GROSSE POINTE WOODS	MI	48236
LANDSIEDEL FREDERICK		1521 EDMUNDTON DR	GROSSE POINTE WOODS	MI	48236
OCCUPANT		1522 ALINE DR	GROSSE POINTE WOODS	MI	48236
WALKOWIAK RICHARD D	WALKOWIAK HEIDI A	1522 YORKTOWN ST	GROSSE POINTE WOODS	MI	48236
SLOTKA BRETT W		1528 BRY'S DR	GROSSE POINTE WOODS	MI	48236
ANDRUS JANINA		1529 BRY'S DR	GROSSE POINTE WOODS	MI	48236
STEIN WESLEY H		1529 YORKTOWN ST	GROSSE POINTE WOODS	MI	48236
OCCUPANT		1530 ALINE DR	GROSSE POINTE WOODS	MI	48236
KOSANKE CHARLES W		1530 BLAIRMOOR CT	GROSSE POINTE WOODS	MI	48236
EDER GEORGE		1533 BLAIRMOOR CT	GROSSE POINTE WOODS	MI	48236
PAGEL DORIS A		1535 ALINE DR	GROSSE POINTE WOODS	MI	48236
WEBB DEREK	WEBB CHRISTINA	1535 EDMUNDTON DR	GROSSE POINTE WOODS	MI	48236
JANUTOL CHRIS	JANUTOL ANNIE	1536 ALINE DR	GROSSE POINTE WOODS	MI	48236
ELSEY KATHLEEN M		1536 BRY'S DR	GROSSE POINTE WOODS	MI	48236
WALDVOGEL ROBERT		1536 EDMUNDTON DR	GROSSE POINTE WOODS	MI	48236
KYNASTON STEVE		1536 ROSLYN RD	GROSSE POINTE WOODS	MI	48236
OCCUPANT		1537 BRY'S DR	GROSSE POINTE WOODS	MI	48236
OCCUPANT		1539 ALINE DR	GROSSE POINTE WOODS	MI	48236
ANDERSON PAULINE		1543 YORKTOWN ST	GROSSE POINTE WOODS	MI	48236
REID SANDRA H		1544 ALINE DR	GROSSE POINTE WOODS	MI	48236
TROMBLEY RONALD	TROMBLEY NADI	1544 BRY'S DR	GROSSE POINTE WOODS	MI	48236
OCCUPANT		1544 ROSLYN RD	GROSSE POINTE WOODS	MI	48236
RZEPPA JOHN		1545 ALINE DR	GROSSE POINTE WOODS	MI	48236
NURSE DAVID R	COSTA JULIE L	1545 BRY'S DR	GROSSE POINTE WOODS	MI	48236
GRAHAM ROBERT R		1546 BLAIRMOOR CT	GROSSE POINTE WOODS	MI	48236
LEX DENNIS		1546 YORKTOWN ST	GROSSE POINTE WOODS	MI	48236
LILLICH HELMUT		1547 BLAIRMOOR CT	GROSSE POINTE WOODS	MI	48236
DOSS DEAN A	DOSS SHEILA A	1549 EDMUNDTON DR	GROSSE POINTE WOODS	MI	48236
OCCUPANT		1552 BRY'S DR	GROSSE POINTE WOODS	MI	48236

21336 Mack Ave - 1000' Radius

ownersname	ownersna_1	ownerstreet	ownercity	ownerstate	ownerzipco
BAHR MICHAEL		1552 EDMUNDTON DR	GROSSE POINTE WOODS	MI	48236
SPEZIA KENNETH J		1552 ROSLYN RD	GROSSE POINTE WOODS	MI	48236
STOWELL CHARLES	STOWELL BARBARA	1553 BRYN DR	GROSSE POINTE WOODS	MI	48236
ADAMS KELLY L		1554 ALINE DR	GROSSE POINTE WOODS	MI	48236
OCCUPANT		1555 ALINE DR	GROSSE POINTE WOODS	MI	48236
ROJAS FLORAMANTE B		1557 YORKTOWN ST	GROSSE POINTE WOODS	MI	48236
RAUCH GERALD A	RAUCH TRACY A	1560 BLAIRMOR CT	GROSSE POINTE WOODS	MI	48236
MCMANUS ROBERT	MCMANUS ROCHELLE	1560 BRYN DR	GROSSE POINTE WOODS	MI	48236
FRIEDMANN MARGARET A		1560 ROSLYN RD	GROSSE POINTE WOODS	MI	48236
HOWARD JOSEPH G		1561 BRYN DR	GROSSE POINTE WOODS	MI	48236
RUSSELL DORIS		1563 BLAIRMOR CT	GROSSE POINTE WOODS	MI	48236
DYKES DAVID J		1563 EDMUNDTON DR	GROSSE POINTE WOODS	MI	48236
GUASTELLA WILLIAM L		1564 ALINE DR	GROSSE POINTE WOODS	MI	48236
MCDONALD VIVIEN		1565 ALINE DR	GROSSE POINTE WOODS	MI	48236
DUSTER MARY		1568 BRYN DR	GROSSE POINTE WOODS	MI	48236
WITTWER ALFRED P		1568 EDMUNDTON DR	GROSSE POINTE WOODS	MI	48236
DONALDSON RICHARD		1568 ROSLYN RD	GROSSE POINTE WOODS	MI	48236
CARINO CHRISTYN		1569 BRYN DR	GROSSE POINTE WOODS	MI	48236
KORKMAZ WALID	KORKMAZ ANNIE	1571 YORKTOWN ST	GROSSE POINTE WOODS	MI	48236
BIORDI GIULIANA		1574 ALINE DR	GROSSE POINTE WOODS	MI	48236
STRASZ THOMAS E II		1575 ALINE DR	GROSSE POINTE WOODS	MI	48236
MANIACI CHUCK		1576 BLAIRMOR CT	GROSSE POINTE WOODS	MI	48236
MAHER PATRICK	MAHER MARY	1576 BRYN DR	GROSSE POINTE WOODS	MI	48236
FUHRMAN FAWN LEE		1576 ROSLYN RD	GROSSE POINTE WOODS	MI	48236
KORESKY KEVIN	KORESKY LYSSA	1577 BLAIRMOR CT	GROSSE POINTE WOODS	MI	48236
GRAY GILBERT H	GRAY MARY	1577 BRYN DR	GROSSE POINTE WOODS	MI	48236
LAWLIS TIMOTHY C	LAWLIS DONNA L	1577 EDMUNDTON DR	GROSSE POINTE WOODS	MI	48236
PICKELHAUPT TERRY R		1577 ROSLYN RD	GROSSE POINTE WOODS	MI	48236
SOLOMON ADELE M		1584 ALINE DR	GROSSE POINTE WOODS	MI	48236
STEIGELMAN JOHN A	STEIGELMAN MARY E	1584 BRYN DR	GROSSE POINTE WOODS	MI	48236
SMITH RUSSELL D	SMITH KATHRYN	1584 EDMUNDTON DR	GROSSE POINTE WOODS	MI	48236
DAMORE PENELOPE		1584 ROSLYN RD	GROSSE POINTE WOODS	MI	48236
GIMPERT JOSEPH		1585 ALINE DR	GROSSE POINTE WOODS	MI	48236
KAISER CHARLES J	KAISER MARY A	1585 BRYN DR	GROSSE POINTE WOODS	MI	48236
VENET GARY D JR	VENET KIMBERLY	1585 ROSLYN RD	GROSSE POINTE WOODS	MI	48236
FIKANY JOSEPH R		1587 YORKTOWN ST	GROSSE POINTE WOODS	MI	48236
GEORGE GARY		1589 ALINE DR	GROSSE POINTE WOODS	MI	48236
DUNCAN BRUCE		1590 BLAIRMOR CT	GROSSE POINTE WOODS	MI	48236
PICKETT THOMAS L II		1591 EDMUNDTON DR	GROSSE POINTE WOODS	MI	48236
SANDERCOTT SHIRLEY		1592 BRYN DR	GROSSE POINTE WOODS	MI	48236
MATTILA JOAN BRENDA		1592 ROSLYN RD	GROSSE POINTE WOODS	MI	48236
ABDULLAH GEORGE TONY	ABDULLAH YVONNE	1593 BLAIRMOR CT	GROSSE POINTE WOODS	MI	48236
DIORETO SALLY A		1593 BRYN DR	GROSSE POINTE WOODS	MI	48236
ZETTLE RONALD K	ZETTLE LUANN M	1593 ROSLYN RD	GROSSE POINTE WOODS	MI	48236
ATRASZ ANTHONY G		1594 ALINE DR	GROSSE POINTE WOODS	MI	48236
OCCUPANT		1595 ALINE DR	GROSSE POINTE WOODS	MI	48236
SCHULTHEIS JULIAN N	STRASZ MARY M	1600 BRYN DR	GROSSE POINTE WOODS	MI	48236
DANIELS JILL T		1600 ROSLYN RD	GROSSE POINTE WOODS	MI	48236
POPE RONALD	POPE KELLY	1601 BRYN DR	GROSSE POINTE WOODS	MI	48236
OCCUPANT		1601 ROSLYN RD	GROSSE POINTE WOODS	MI	48236
HENRY ROBERT A		1604 ALINE DR	GROSSE POINTE WOODS	MI	48236
DELY EDWIN R		1604 EDMUNDTON DR	GROSSE POINTE WOODS	MI	48236
PARENT BRIAN J		1605 ALINE DR	GROSSE POINTE WOODS	MI	48236

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ownersname	ownersna_1	ownerstreet	ownercity	ownerstate	ownerzipco
SHERRY FRANK E	MASON-SHERRY RENEE	1605 EDMUNTON DR	GROSSE POINTE WOODS	MI	48236
ASLANIAN ANTHONY		1606 BLAIRMOR CT	GROSSE POINTE WOODS	MI	48236
COLE CLAUDE A	COLE MARLISE A	1607 BLAIRMOR CT	GROSSE POINTE WOODS	MI	48236
ORSINI MARY LOUISE A		1607 YORKTOWN ST	GROSSE POINTE WOODS	MI	48236
ESHMAN ERIC M	ESHMAN NADIN	1608 BRYN DR	GROSSE POINTE WOODS	MI	48236
MILLER GREGORY H JR		1608 ROSLYN RD	GROSSE POINTE WOODS	MI	48236
ATZENHOFER MICHAEL J		1609 BRYN DR	GROSSE POINTE WOODS	MI	48236
PERRI MICHAEL		1609 ROSLYN RD	GROSSE POINTE WOODS	MI	48236
OCCUPANT		1614 ALINE DR	GROSSE POINTE WOODS	MI	48236
RIGGS KATELYN		1615 ALINE DR	GROSSE POINTE WOODS	MI	48236
OCCUPANT		1616 BRYN DR	GROSSE POINTE WOODS	MI	48236
METRY SEAN		1616 ROSLYN RD	GROSSE POINTE WOODS	MI	48236
HENDRIX PAUL A	HENDRIX ANNABELLE L	1617 BRYN DR	GROSSE POINTE WOODS	MI	48236
MICHAEL NANCY L		1617 ROSLYN RD	GROSSE POINTE WOODS	MI	48236
GERSTNER RICHARD J		1619 EDMUNTON DR	GROSSE POINTE WOODS	MI	48236
MUCCIOLI NATHAN		1620 BLAIRMOR CT	GROSSE POINTE WOODS	MI	48236
ALINE PROPERTY LLC		1620 FAIRHOLME RD	GROSSE POINTE WOODS	MI	48236
LAPANSIE MARK	LAPANSIE KATHLEEN	1623 BLAIRMOR CT	GROSSE POINTE WOODS	MI	48236
KREUTZANS DUANE E		1624 ALINE DR	GROSSE POINTE WOODS	MI	48236
OCCUPANT		1624 BRYN DR	GROSSE POINTE WOODS	MI	48236
NAZARKO FISNIK		1624 ROSLYN RD	GROSSE POINTE WOODS	MI	48236
MCKAY KAREN L	MCKAY LINDA	1625 ALINE DR	GROSSE POINTE WOODS	MI	48236
OCCUPANT		1625 BRYN DR	GROSSE POINTE WOODS	MI	48236
DINAN WILLIAM E	DINAN MARY R	1625 ROSLYN RD	GROSSE POINTE WOODS	MI	48236
BARIL CATHERINE C		1632 BRYN DR	GROSSE POINTE WOODS	MI	48236
LEECH MARY F		1632 HAMPTON RD	GROSSE POINTE WOODS	MI	48236
GOOSEN EDWARD C		1632 ROSLYN RD	GROSSE POINTE WOODS	MI	48236
FEENY SHAWN M		1633 BRYN DR	GROSSE POINTE WOODS	MI	48236
BIDIGARE JAMES L		1633 EDMUNTON DR	GROSSE POINTE WOODS	MI	48236
OCCUPANT		1633 ROSLYN RD	GROSSE POINTE WOODS	MI	48236
OCCUPANT		1634 ALINE DR	GROSSE POINTE WOODS	MI	48236
SCHRAGE JOHN M	SCHRAGE JEAN P	1634 EDMUNTON DR	GROSSE POINTE WOODS	MI	48236
MORRIS CLIFFORD H		1635 ALINE DR	GROSSE POINTE WOODS	MI	48236
PAAVOLA JAMES O		1636 BLAIRMOR CT	GROSSE POINTE WOODS	MI	48236
SHEA BRIAN G		1637 BLAIRMOR CT	GROSSE POINTE WOODS	MI	48236
EDWARDS ELIZABETH		1640 BRYN DR	GROSSE POINTE WOODS	MI	48236
POOLE JAMES	POOLE NAM L	1640 ROSLYN RD	GROSSE POINTE WOODS	MI	48236
REED STUART W	REED CARLA J	1641 BRYN DR	GROSSE POINTE WOODS	MI	48236
CLARK CAROLYN F		1641 ROSLYN RD	GROSSE POINTE WOODS	MI	48236
JENDRE LISA CATHERINE		1642 HAMPTON RD	GROSSE POINTE WOODS	MI	48236
KRONNER JOHN M	KRONNER JILLIAN M	1645 BLAIRMOR CT	GROSSE POINTE WOODS	MI	48236
CASINELLI MARIELLA		1646 ALINE DR	GROSSE POINTE WOODS	MI	48236
THORN LINDA L		1647 ALINE DR	GROSSE POINTE WOODS	MI	48236
PATROSSO ALBERT A		1647 EDMUNTON DR	GROSSE POINTE WOODS	MI	48236
AKERS SPENCER		1648 BRYN DR	GROSSE POINTE WOODS	MI	48236
BEATTIE EDWARD L	BEATTIE PATRICIA M	1648 HAMPTON RD	GROSSE POINTE WOODS	MI	48236
WIETECHKA GEORGE A	WIETECHKA KELLY K	1648 ROSLYN RD	GROSSE POINTE WOODS	MI	48236
KOSMACK RICHARD R	KOSMACK MARGERY A	1649 BRYN DR	GROSSE POINTE WOODS	MI	48236
BEARDEN RANDY JR	HALE LINDSAY M	1649 ROSLYN RD	GROSSE POINTE WOODS	MI	48236
FILIPOWICZ LEON-HANNA		1650 BLAIRMOR CT	GROSSE POINTE WOODS	MI	48236
CAMERON DUGALD		1653 BLAIRMOR CT	GROSSE POINTE WOODS	MI	48236
CASTLE LORRAINE RENO MELBA		1656 ALINE DR	GROSSE POINTE WOODS	MI	48236
PRUDDEN ELIZABETH P		1656 BRYN DR	GROSSE POINTE WOODS	MI	48236

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ownersname	ownersna_1	ownerstreet	ownercity	ownerstate	ownerzipco
HOLMES MICHAEL		1656 HAMPTON RD	GROSSE POINTE WOODS	MI	48236
MARTIN DAVID	MARTIN KERRI	1656 ROSLYN RD	GROSSE POINTE WOODS	MI	48236
DUNCAN WILLIAM		1657 ALINE DR	GROSSE POINTE WOODS	MI	48236
POST CYNTHIA L	POST VICTORIA A	1657 BRY'S DR	GROSSE POINTE WOODS	MI	48236
PICKFORD DARREN		1657 ROSLYN RD	GROSSE POINTE WOODS	MI	48236
HAERENS VICTOR G		1676 ALINE DR	GROSSE POINTE WOODS	MI	48236
MURPHY GEORGE J		1676 BRY'S DR	GROSSE POINTE WOODS	MI	48236
ABDEL SAYED EHAB M		1677 BRY'S DR	GROSSE POINTE WOODS	MI	48236
BETZLER ROBERT	BETZLER HOLLY	1679 ALINE DR	GROSSE POINTE WOODS	MI	48236
DEHELEAN JOSEPHINE		1680 HAMPTON RD	GROSSE POINTE WOODS	MI	48236
LANE MICHAEL	LANE KATHLEEN	1680 ROSLYN RD	GROSSE POINTE WOODS	MI	48236
POPKIN STEVEN M	POPKIN DEBRA	1681 ROSLYN RD	GROSSE POINTE WOODS	MI	48236
SILLERY SUZANNE		1684 BRY'S DR	GROSSE POINTE WOODS	MI	48236
KOSEK THOMAS J		1685 BRY'S DR	GROSSE POINTE WOODS	MI	48236
KENT STEPHEN BARRY		1686 ALINE DR	GROSSE POINTE WOODS	MI	48236
SHARPLES JAMES T	SHARPLES DENISE M	1688 HAMPTON RD	GROSSE POINTE WOODS	MI	48236
OCCUPANT		1688 ROSLYN RD	GROSSE POINTE WOODS	MI	48236
SPENCE SEAN DAVID	SPENCE AMY LOUISE	1689 ROSLYN RD	GROSSE POINTE WOODS	MI	48236
BERGER BRUCE C		1691 ALINE DR	GROSSE POINTE WOODS	MI	48236
YAQUINTO ANGELA		1692 BRY'S DR	GROSSE POINTE WOODS	MI	48236
LONG JESSICA		1693 BRY'S DR	GROSSE POINTE WOODS	MI	48236
TOMCZAK LOUIS F		1696 ALINE DR	GROSSE POINTE WOODS	MI	48236
PHILLIPS MARK	WITTMAN BETH	1696 HAMPTON RD	GROSSE POINTE WOODS	MI	48236
GIBBONS REBECCA A		1696 ROSLYN RD	GROSSE POINTE WOODS	MI	48236
NOWACKI JASON	NOWACKI REBECCA	1697 ROSLYN RD	GROSSE POINTE WOODS	MI	48236
ORLANDO FREDERICK V		1700 BRY'S DR	GROSSE POINTE WOODS	MI	48236
KERBY PAUL R		1701 ALINE DR	GROSSE POINTE WOODS	MI	48236
FLY EDWARD	FLY CATHERINE	1701 BRY'S DR	GROSSE POINTE WOODS	MI	48236
OCCUPANT		1704 HAMPTON RD	GROSSE POINTE WOODS	MI	48236
GORTON C		1704 ROSLYN RD	GROSSE POINTE WOODS	MI	48236
MICHAEL JOSEPH		1705 ROSLYN RD	GROSSE POINTE WOODS	MI	48236
JANUTOL PETER		1708 ALINE DR	GROSSE POINTE WOODS	MI	48236
THIEDE PHYLLIS		1708 BRY'S DR	GROSSE POINTE WOODS	MI	48236
CEZIL SAMUEL	CEZIL VENESHIA	1709 BRY'S DR	GROSSE POINTE WOODS	MI	48236
VONDRACK CLAUDIA		1712 HAMPTON RD	GROSSE POINTE WOODS	MI	48236
SOLAK BERNADETTE		1712 ROSLYN RD	GROSSE POINTE WOODS	MI	48236
SCHULTZ PATRICIA A		1713 ALINE DR	GROSSE POINTE WOODS	MI	48236
JOHNSON MARY CLAIRE		1713 ROSLYN RD	GROSSE POINTE WOODS	MI	48236
DANIEL TIMOTHY A	TAYLOR DEBORAH	1716 BRY'S DR	GROSSE POINTE WOODS	MI	48236
MARONE MICHAEL R	MARONE VILMA Y	1717 BRY'S DR	GROSSE POINTE WOODS	MI	48236
BARTOLD LAURENCE	BARTOLD MARIA	1718 ALINE DR	GROSSE POINTE WOODS	MI	48236
LANGE KATHLEEN F		1720 HAMPTON RD	GROSSE POINTE WOODS	MI	48236
KAYE SUSAN M		1720 ROSLYN RD	GROSSE POINTE WOODS	MI	48236
ROMAN DAVID		1721 ROSLYN RD	GROSSE POINTE WOODS	MI	48236
KASZA GEORGE J		1723 ALINE DR	GROSSE POINTE WOODS	MI	48236
DESMET LINDA		1724 BRY'S DR	GROSSE POINTE WOODS	MI	48236
FERRARI GARY A	FERRARI MARY F	1725 BRY'S DR	GROSSE POINTE WOODS	MI	48236
OCCUPANT		1728 HAMPTON RD	GROSSE POINTE WOODS	MI	48236
OCCUPANT		1728 ROSLYN RD	GROSSE POINTE WOODS	MI	48236
WILGER BRIAN R	WILGER KIMBERLY A	1729 ROSLYN RD	GROSSE POINTE WOODS	MI	48236
LENTINE ANNA L		1730 ALINE DR	GROSSE POINTE WOODS	MI	48236
ROZEWSKI CHRISTOPHER		1732 BRY'S DR	GROSSE POINTE WOODS	MI	48236
LOVELACE DARYL	LOVELACE LYNN	1732 PRESTWICK RD	GROSSE POINTE WOODS	MI	48236

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ownersname	ownersna_l	ownerstreet	ownercity	ownerstate	ownerzipco
OCCUPANT		1733 BRYN DR	GROSSE POINTE WOODS	MI	48236
PAPA BARBARA		1735 ALINE DR	GROSSE POINTE WOODS	MI	48236
GAGE MARY K		1736 HAMPTON RD	GROSSE POINTE WOODS	MI	48236
TIMMERMANS STEVEN M		1736 ROSLYN RD	GROSSE POINTE WOODS	MI	48236
SEIDLE SUSAN		1737 ROSLYN RD	GROSSE POINTE WOODS	MI	48236
CLARK LISA L		1740 ALINE DR	GROSSE POINTE WOODS	MI	48236
REDZINIAK JONATHAN	REDZINIAK MYRON S	1740 BRYN DR	GROSSE POINTE WOODS	MI	48236
OCCUPANT		1741 BRYN DR	GROSSE POINTE WOODS	MI	48236
HEIKE ANNE M		1744 HAMPTON RD	GROSSE POINTE WOODS	MI	48236
OCCUPANT		1744 ROSLYN RD	GROSSE POINTE WOODS	MI	48236
OCCUPANT		1745 ALINE DR	GROSSE POINTE WOODS	MI	48236
MAURICE MAUREEN P		1745 ROSLYN RD	GROSSE POINTE WOODS	MI	48236
LEBLANC DANIEL		1749 BRYN DR	GROSSE POINTE WOODS	MI	48236
MCKEAN IDA		1752 ALINE DR	GROSSE POINTE WOODS	MI	48236
MICHAUX HAROLD W	MICHAUX LYNN E	1752 HAMPTON RD	GROSSE POINTE WOODS	MI	48236
HART GLORIA		1753 ROSLYN RD	GROSSE POINTE WOODS	MI	48236
LUCIDO JOSEPH J JR	LUCIDO JANE M	1756 BRYN DR	GROSSE POINTE WOODS	MI	48236
HERMAN FREDERICK G	HERMAN VICKI	1757 ALINE DR	GROSSE POINTE WOODS	MI	48236
CARRON DAVID		1757 BRYN DR	GROSSE POINTE WOODS	MI	48236
ATHERTON BRIAN	ATHERTON ERIKA	1760 HAMPTON RD	GROSSE POINTE WOODS	MI	48236
MILLER TOM L		1760 ROSLYN RD	GROSSE POINTE WOODS	MI	48236
GOULD LYNN		1761 ROSLYN RD	GROSSE POINTE WOODS	MI	48236
ROWLETT JOSEPHINE A		1762 ALINE DR	GROSSE POINTE WOODS	MI	48236
DONOVAN JOHN A	MELISE ANNE M	1764 BRYN DR	GROSSE POINTE WOODS	MI	48236
OCCUPANT		1765 BRYN DR	GROSSE POINTE WOODS	MI	48236
BISCHOFF JOHN A		1767 ALINE DR	GROSSE POINTE WOODS	MI	48236
OCCUPANT		1768 HAMPTON RD	GROSSE POINTE WOODS	MI	48236
OCCUPANT		1768 ROSLYN RD	GROSSE POINTE WOODS	MI	48236
LINK DAVID W	SPILOS SALLY A	1769 ROSLYN RD	GROSSE POINTE WOODS	MI	48236
HIGGINS ILONA K	MELISE ANNE M	1772 BRYN DR	GROSSE POINTE WOODS	MI	48236
PRIEBE ROBERT	PRIEBE ELIZABETH	1773 BRYN DR	GROSSE POINTE WOODS	MI	48236
TALLAREK GLEN E		1774 ALINE DR	GROSSE POINTE WOODS	MI	48236
OCCUPANT		1776 HAMPTON RD	GROSSE POINTE WOODS	MI	48236
OCCUPANT		1776 ROSLYN RD	GROSSE POINTE WOODS	MI	48236
SKAFF MARIANA M		1777 ROSLYN RD	GROSSE POINTE WOODS	MI	48236
TELEGADAS JAMES		1779 ALINE DR	GROSSE POINTE WOODS	MI	48236
TELEGADAS JAMES		1779 ALINE DR	GROSSE POINTE WOODS	MI	48236
SHAYA BASAM B		1781 BRYN DR	GROSSE POINTE WOODS	MI	48236
OCCUPANT		1784 ALINE DR	GROSSE POINTE WOODS	MI	48236
KIRK ERNEST CRAIG		1784 HAMPTON RD	GROSSE POINTE WOODS	MI	48236
ISMAKU SOKOL	TOMINI ENKELEJDA	1784 ROSLYN RD	GROSSE POINTE WOODS	MI	48236
BARONI SABINA		1785 ROSLYN RD	GROSSE POINTE WOODS	MI	48236
KLINE KENNETH J	KLINE CHRISTINE	1788 BRYN DR	GROSSE POINTE WOODS	MI	48236
LEVIGNE JOSEPH L		1789 BRYN DR	GROSSE POINTE WOODS	MI	48236
SHUBIK RICHARD P		1792 HAMPTON RD	GROSSE POINTE WOODS	MI	48236
GOZDOR KEVIN		1792 ROSLYN RD	GROSSE POINTE WOODS	MI	48236
OCCUPANT		1793 ROSLYN RD	GROSSE POINTE WOODS	MI	48236
SMITH MARK C	SMITH LYNNE H	1794 ALINE DR	GROSSE POINTE WOODS	MI	48236
LANZA CHERON		1796 BRYN DR	GROSSE POINTE WOODS	MI	48236
OCCUPANT		1797 BRYN DR	GROSSE POINTE WOODS	MI	48236
DECRAENE ROBERT J	DECRAENE JULIE K	1799 ALINE DR	GROSSE POINTE WOODS	MI	48236
OCCUPANT		1800 HAMPTON RD	GROSSE POINTE WOODS	MI	48236
OCCUPANT		1800 ROSLYN RD	GROSSE POINTE WOODS	MI	48236

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ownersname	ownersna_1	ownerstreet	ownercity	ownerstate	ownerzipco
OLSON BRADLEY P		1801 ROSLYN RD	GROSSE POINTE WOODS	MI	48236
HOFFMAN JOHN T		1804 BRYN DR	GROSSE POINTE WOODS	MI	48236
HARRY BARBARA F		1805 BRYN DR	GROSSE POINTE WOODS	MI	48236
BRYN GERALD L		1806 ALINE DR	GROSSE POINTE WOODS	MI	48236
PATTERSON MICHAEL J	PATTERSON DIANE	1808 HAMPTON RD	GROSSE POINTE WOODS	MI	48236
CONNOR JOSEPH M IV	CONNOR CHRISTINA T	1808 LITTLESTONE RD	GROSSE POINTE WOODS	MI	48236
STORRS DANIEL		1808 ROSLYN RD	GROSSE POINTE WOODS	MI	48236
INGRAM ROBERT P	INGRAM JULIE A	1809 ROSLYN RD	GROSSE POINTE WOODS	MI	48236
STAPLETON NANCY S		1811 ALINE DR	GROSSE POINTE WOODS	MI	48236
SAHADI PAUL	SAHADI KAREN	1812 BRYN DR	GROSSE POINTE WOODS	MI	48236
RAMSEY CLARE A		1813 BRYN DR	GROSSE POINTE WOODS	MI	48236
KRISHNAN MURALI	KRISHNAN LATHA	1816 ALINE DR	GROSSE POINTE WOODS	MI	48236
COHN MARK S	OEHMKE CAROL	1816 HAMPTON RD	GROSSE POINTE WOODS	MI	48236
ZEIMEN JOHN J	ZEIMEN KIRSTEN M	1816 ROSLYN RD	GROSSE POINTE WOODS	MI	48236
SCANLON MICHAEL W		1817 ROSLYN RD	GROSSE POINTE WOODS	MI	48236
BRADLEY ROBERT		1820 BRYN DR	GROSSE POINTE WOODS	MI	48236
KOSOWAN DOLORES L		1821 ALINE DR	GROSSE POINTE WOODS	MI	48236
RAUSCH PAULA S		1821 BRYN DR	GROSSE POINTE WOODS	MI	48236
OCCUPANT		1824 HAMPTON RD	GROSSE POINTE WOODS	MI	48236
KENNEDY JOHN		1824 ROSLYN RD	GROSSE POINTE WOODS	MI	48236
LUPO JAMES V		1825 ROSLYN RD	GROSSE POINTE WOODS	MI	48236
LAWLIS WALTER		1826 ALINE DR	GROSSE POINTE WOODS	MI	48236
BERTOLINI PETER		1828 BRYN DR	GROSSE POINTE WOODS	MI	48236
CAIRNS CONSTANCE		1829 BRYN DR	GROSSE POINTE WOODS	MI	48236
KOMASARA JEFFREY M		1831 ALINE DR	GROSSE POINTE WOODS	MI	48236
VAISEY RONALD A		1832 HAMPTON RD	GROSSE POINTE WOODS	MI	48236
MURAWSKI MADELINE T		1832 ROSLYN RD	GROSSE POINTE WOODS	MI	48236
DIRITA VITTORIO	DIRITA ISABELLE	1836 ALINE DR	GROSSE POINTE WOODS	MI	48236
OCCUPANT		1836 BRYN DR	GROSSE POINTE WOODS	MI	48236
CLINE RICHARD	CLINE ANDREA	1837 BRYN DR	GROSSE POINTE WOODS	MI	48236
COBB JENNIFER L		1840 HAMPTON RD	GROSSE POINTE WOODS	MI	48236
WILSON FRANK C		1840 ROSLYN RD	GROSSE POINTE WOODS	MI	48236
GERANGAYA BERNARD JOVIR		1841 ALINE DR	GROSSE POINTE WOODS	MI	48236
FARRELL SYLVIA B		1841 ROSLYN RD	GROSSE POINTE WOODS	MI	48236
FORTHOFFER DANIEL W		1844 BRYN DR	GROSSE POINTE WOODS	MI	48236
OCCUPANT		1845 BRYN DR	GROSSE POINTE WOODS	MI	48236
OCCUPANT		1846 ALINE DR	GROSSE POINTE WOODS	MI	48236
OLSON STEVEN	OLSON MICHELLE	1848 HAMPTON RD	GROSSE POINTE WOODS	MI	48236
TAYLOR JOANNE F		1848 ROSLYN RD	GROSSE POINTE WOODS	MI	48236
SHIMKO JAMES		1849 ROSLYN RD	GROSSE POINTE WOODS	MI	48236
CHOMIS DONALD R II		1851 ALINE DR	GROSSE POINTE WOODS	MI	48236
SULLIVAN THOMAS		1852 BRYN DR	GROSSE POINTE WOODS	MI	48236
TURKUS CATHERINE		1853 BRYN DR	GROSSE POINTE WOODS	MI	48236
OCCUPANT		1856 HAMPTON RD	GROSSE POINTE WOODS	MI	48236
OCCUPANT		1856 ROSLYN RD	GROSSE POINTE WOODS	MI	48236
HENRY MARY		1857 ROSLYN RD	GROSSE POINTE WOODS	MI	48236
YAMIN TRACY		1860 BRYN DR	GROSSE POINTE WOODS	MI	48236
KIRLES EDMUND N		1861 BRYN DR	GROSSE POINTE WOODS	MI	48236
DIMITRAKOPOULOS ANASTASIOIS		1864 ROSLYN RD	GROSSE POINTE WOODS	MI	48236
OCCUPANT		1865 ROSLYN RD	GROSSE POINTE WOODS	MI	48236
OCCUPANT		1868 BRYN DR	GROSSE POINTE WOODS	MI	48236
CHASDI RICHARD	APPLEBAUM SHARON	1869 BRYN DR	GROSSE POINTE WOODS	MI	48236
OCCUPANT		1950 ROSLYN RD	GROSSE POINTE WOODS	MI	48236

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FROMM RICHARD C	FROMM SHARON M	1951 SHOREPOINTE RD	GROSSE POINTE WOODS	MI	48236
FONG ALVIN MON	FONG HONG AL	1952 BRYN DR	GROSSE POINTE WOODS	MI	48236
DANIELSON ROBERT B	DANIELSON MYRA J	1952 HAMPTON RD	GROSSE POINTE WOODS	MI	48236
SERAFANO PETER M	SERAFANO AMINEH	1953 BRYN DR	GROSSE POINTE WOODS	MI	48236
OCCUPANT		1953 ROSLYN RD	GROSSE POINTE WOODS	MI	48236
THURBER CHERYL		1955 SHOREPOINTE RD	GROSSE POINTE WOODS	MI	48236
OCCUPANT		1960 ROSLYN RD	GROSSE POINTE WOODS	MI	48236
PECK CYNTHIA		1961 BRYN DR	GROSSE POINTE WOODS	MI	48236
PARENTE JOSEPH		1961 ROSLYN RD	GROSSE POINTE WOODS	MI	48236
BONGIORNO ALEXANDER J	BONGIORNO MARGARET A	1961 SHOREPOINTE RD	GROSSE POINTE WOODS	MI	48236
KILATES MARIA CRISTINA		1965 SHOREPOINTE RD	GROSSE POINTE WOODS	MI	48236
SEMENJUK JANET A		1966 BRYN DR	GROSSE POINTE WOODS	MI	48236
LINDNER DAVID		1966 HAMPTON RD	GROSSE POINTE WOODS	MI	48236
OCCUPANT		1967 ROSLYN RD	GROSSE POINTE WOODS	MI	48236
ALLEN RICHARD		1968 ROSLYN RD	GROSSE POINTE WOODS	MI	48236
FREDERICK ROBERT B		1971 SHOREPOINTE RD	GROSSE POINTE WOODS	MI	48236
OCONNOR MEGHANN M		1974 BRYN DR	GROSSE POINTE WOODS	MI	48236
OCCUPANT		1974 HAMPTON RD	GROSSE POINTE WOODS	MI	48236
GILLIS COLIN	GILLIS ERIN	1974 ROSLYN RD	GROSSE POINTE WOODS	MI	48236
HETZLER JOHN	HETZLER LAURA	1975 BRYN DR	GROSSE POINTE WOODS	MI	48236
VAUGHN JOSEPH	VAUGHN FRANCES	1975 SHOREPOINTE RD	GROSSE POINTE WOODS	MI	48236
OCCUPANT		1977 ROSLYN RD	GROSSE POINTE WOODS	MI	48236
ERBECKER FRANK J	ERBECKER PATRICIA M	1979 SHOREPOINTE RD	GROSSE POINTE WOODS	MI	48236
FORMICOLA GRACE		1980 BRYN DR	GROSSE POINTE WOODS	MI	48236
ALFANO THOMAS		1980 HAMPTON RD	GROSSE POINTE WOODS	MI	48236
SNYDER MARYANN		1980 ROSLYN RD	GROSSE POINTE WOODS	MI	48236
BENEDETTINI DANTE M		1981 BRYN DR	GROSSE POINTE WOODS	MI	48236
MOTT DEBRA J		1981 ROSLYN RD	GROSSE POINTE WOODS	MI	48236
K B INVESTMENT		19815 MACK AVE	GROSSE POINTE WOODS	MI	48236
LEWANDOWSKI RICHARD	LEWANDOWSKI SUZANNE	1983 SHOREPOINTE RD	GROSSE POINTE WOODS	MI	48236
COMPTON TAMME		1988 BRYN DR	GROSSE POINTE WOODS	MI	48236
MARL PATRICIA A		1988 HAMPTON RD	GROSSE POINTE WOODS	MI	48236
OCCUPANT		1988 ROSLYN RD	GROSSE POINTE WOODS	MI	48236
KOLAKOWSKI GARY E	KOLAKOWSKI DENISE	1989 BRYN DR	GROSSE POINTE WOODS	MI	48236
CLAPHAN JEFFREY	CLAPHAN EMILY C	1989 ROSLYN RD	GROSSE POINTE WOODS	MI	48236
CARTER MARK A	CARTER LAURA M	1989 SHOREPOINTE RD	GROSSE POINTE WOODS	MI	48236
CORONA RICHARD	CORONA ELIZABETH	1993 SHOREPOINTE RD	GROSSE POINTE WOODS	MI	48236
ERICKSON ELSIE		1994 BRYN DR	GROSSE POINTE WOODS	MI	48236
OCCUPANT		1994 ROSLYN RD	GROSSE POINTE WOODS	MI	48236
LOSINSKI GREG		1995 BRYN DR	GROSSE POINTE WOODS	MI	48236
OCCUPANT		1995 ROSLYN RD	GROSSE POINTE WOODS	MI	48236
GROSSE ANDREE		1999 SHOREPOINTE RD	GROSSE POINTE WOODS	MI	48236
CROOK MATTHEW	CROOK VANESSA	2002 BRYN DR	GROSSE POINTE WOODS	MI	48236
FELL MICHAEL J	FELL SUSAN	2002 HAMPTON RD	GROSSE POINTE WOODS	MI	48236
FINLEY MARY KATHERINE		2002 ROSLYN RD	GROSSE POINTE WOODS	MI	48236
JORDAN ADRIENNE		2003 BRYN DR	GROSSE POINTE WOODS	MI	48236
COBB CARL	COBB TYLENE	2003 ROSLYN RD	GROSSE POINTE WOODS	MI	48236
MILLS JOHN D	MILLS DIANE C	2003 SHOREPOINTE RD	GROSSE POINTE WOODS	MI	48236
BAUER JAMES		2008 BRYN DR	GROSSE POINTE WOODS	MI	48236
MASSERANG DONALD W		2009 BRYN DR	GROSSE POINTE WOODS	MI	48236
EVERETT EMILY M		2009 ROSLYN RD	GROSSE POINTE WOODS	MI	48236
CARSWELL KENNETH E	CARSWELL RITA	2009 SHOREPOINTE RD	GROSSE POINTE WOODS	MI	48236
OCCUPANT		2013 SHOREPOINTE RD	GROSSE POINTE WOODS	MI	48236

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SCHLOSS GLENIS		2016 BRYN DR	GROSSE POINTE WOODS	MI	48236
HALVORSEN EUGENE A	HALVORSEN JOY L	2016 ROSLYN RD	GROSSE POINTE WOODS	MI	48236
VERBEKE JULIE A		2017 ROSLYN RD	GROSSE POINTE WOODS	MI	48236
CONWAY K	SPAGNOLO C	2019 SHOREPOINTE RD	GROSSE POINTE WOODS	MI	48236
LABARA ONOFRIO J		20207 MACK AVE	GROSSE POINTE WOODS	MI	48236
OTIOTIO JOSEPHINE		2022 ROSLYN RD	GROSSE POINTE WOODS	MI	48236
OCCUPANT		2023 BRYN DR	GROSSE POINTE WOODS	MI	48236
LATINIS JOHN		2023 ROSLYN RD	GROSSE POINTE WOODS	MI	48236
OCCUPANT		2023 SHOREPOINTE RD	GROSSE POINTE WOODS	MI	48236
GRESWELL NORMA		2029 SHOREPOINTE RD	GROSSE POINTE WOODS	MI	48236
HUNT RICHARD D		2030 BRYN DR	GROSSE POINTE WOODS	MI	48236
OCCUPANT		2030 ROSLYN RD	GROSSE POINTE WOODS	MI	48236
HEWLETT YVONNE		2031 BRYN DR	GROSSE POINTE WOODS	MI	48236
CRUZ YURENE C	CRUZ ORTELIZA I	2031 ROSLYN RD	GROSSE POINTE WOODS	MI	48236
BARRETT NANCY C		2033 SHOREPOINTE RD	GROSSE POINTE WOODS	MI	48236
SAXTON WILLIAM M		2037 SHOREPOINTE RD	GROSSE POINTE WOODS	MI	48236
OCCUPANT		2038 BRYN DR	GROSSE POINTE WOODS	MI	48236
GOODWIN MARC		2039 ROSLYN RD	GROSSE POINTE WOODS	MI	48236
TOCCO JOHN	TOCCO MARY	2041 SHOREPOINTE RD	GROSSE POINTE WOODS	MI	48236
OCCUPANT		2044 BRYN DR	GROSSE POINTE WOODS	MI	48236
KWIATKOWSKI ROBERT F		2044 ROSLYN RD	GROSSE POINTE WOODS	MI	48236
MCLARTY TIMOTHY	MCLARTY JILL	2045 BRYN DR	GROSSE POINTE WOODS	MI	48236
STEDMAN JOYCE		2047 SHOREPOINTE RD	GROSSE POINTE WOODS	MI	48236
MANN STEPHANIE		2050 BRYN DR	GROSSE POINTE WOODS	MI	48236
OCCUPANT		2050 ROSLYN RD	GROSSE POINTE WOODS	MI	48236
OCCUPANT		2051 SHOREPOINTE RD	GROSSE POINTE WOODS	MI	48236
OCCUPANT		2057 SHOREPOINTE RD	GROSSE POINTE WOODS	MI	48236
MASSON NICKOLAUS		2058 ROSLYN RD	GROSSE POINTE WOODS	MI	48236
KAYE JEFFREY M		2059 BRYN DR	GROSSE POINTE WOODS	MI	48236
HONN ANN		2061 SHOREPOINTE RD	GROSSE POINTE WOODS	MI	48236
OCCUPANT		2064 ROSLYN RD	GROSSE POINTE WOODS	MI	48236
OCCUPANT		2065 BRYN DR	GROSSE POINTE WOODS	MI	48236
ANDRULIS KATHLEEN		2066 BRYN DR	GROSSE POINTE WOODS	MI	48236
OCCUPANT		2073 BRYN DR	GROSSE POINTE WOODS	MI	48236
KUZENKO JUDITH A		2074 BRYN DR	GROSSE POINTE WOODS	MI	48236
OCCUPANT		2079 BRYN DR	GROSSE POINTE WOODS	MI	48236
CARLESIMO DEBORAH	CARLESIMO FERNIE	2082 BRYN DR	GROSSE POINTE WOODS	MI	48236
STALLINGS MICHAEL C	STALLINGS STEPHANIE D	2090 BRYN DR	GROSSE POINTE WOODS	MI	48236
OCCUPANT		20964 MACK AVE	GROSSE POINTE WOODS	MI	48236
OCCUPANT		20968 MACK AVE	GROSSE POINTE WOODS	MI	48236
LANDIS SCOTT		2098 BRYN DR	GROSSE POINTE WOODS	MI	48236
KING FRANCIS X		21002 MACK AVE	GROSSE POINTE WOODS	MI	48236
M A X INVESTMENT COMPANY		21003 MACK AVE	GROSSE POINTE WOODS	MI	48236
OCCUPANT		21012 MACK AVE	GROSSE POINTE WOODS	MI	48236
OCCUPANT		21016 MACK AVE	GROSSE POINTE WOODS	MI	48236
OCCUPANT		21019 MACK AVE	GROSSE POINTE WOODS	MI	48236
OCCUPANT		21020 MACK AVE	GROSSE POINTE WOODS	MI	48236
OCCUPANT		21023 MACK AVE	GROSSE POINTE WOODS	MI	48236
OCCUPANT		21027 MACK AVE	GROSSE POINTE WOODS	MI	48236
NEW VISIONS OF YOU		21028 MACK AVE	GROSSE POINTE WOODS	MI	48236
OCCUPANT		21031 MACK AVE	GROSSE POINTE WOODS	MI	48236
RKCK LLC		21034 MACK AVE	GROSSE POINTE WOODS	MI	48236
ANDARY PROPERTIES		21114 MACK AVE	GROSSE POINTE WOODS	MI	48236

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FRANCIS-NESI VENTURES		21115 MACK AVE	GROSSE POINTE WOODS	MI	48236
OCCUPANT		21123 MACK AVE	GROSSE POINTE WOODS	MI	48236
OCCUPANT		21127 MACK AVE	GROSSE POINTE WOODS	MI	48236
OCCUPANT		21138 MACK AVE	GROSSE POINTE WOODS	MI	48236
OCCUPANT		21139 MACK AVE	GROSSE POINTE WOODS	MI	48236
OCCUPANT		21142 MACK AVE	GROSSE POINTE WOODS	MI	48236
CAVALLO INVESTMENTS LLC		21150 MACK AVE	GROSSE POINTE WOODS	MI	48236
OCCUPANT		21205 MACK AVE	GROSSE POINTE WOODS	MI	48236
OCCUPANT		21211 MACK AVE	GROSSE POINTE WOODS	MI	48236
LINDA & KELLY LLC		21219 MACK AVE	GROSSE POINTE WOODS	MI	48236
SPOUTZ CHARLES G II	SPOUTZ DEBORAH A	21277 GOETHE ST	GROSSE POINTE WOODS	MI	48236
OCCUPANT		21300 MACK AVE	GROSSE POINTE WOODS	MI	48236
RADKE JEFFREY	RADKE LAUREN	21325 GOETHE ST	GROSSE POINTE WOODS	MI	48236
CROSSPOINTE CHRISTIAN CHURCH		21336 MACK AVE	GROSSE POINTE WOODS	MI	48236
SUTTON KIMBERLY K		21375 GOETHE ST	GROSSE POINTE WOODS	MI	48236
OCCUPANT		21401 MACK AVE	GROSSE POINTE WOODS	MI	48236
RAFAILL DENNIS		21420 GOETHE ST	GROSSE POINTE WOODS	MI	48236
LEONE ANDREW	LEONE DIANA	21423 GOETHE ST	GROSSE POINTE WOODS	MI	48236
RICHARDS PAUL E	RICHARDS DIANE M	21450 GOETHE ST	GROSSE POINTE WOODS	MI	48236
HAWKSLEY CHRISTOPHER	HAWKSLEY LII-MIIN	21473 GOETHE ST	GROSSE POINTE WOODS	MI	48236
HOGAN JAMES	HOGAN GEORGETTE	21490 GOETHE ST	GROSSE POINTE WOODS	MI	48236
OHORODNIK JULIUS M		21520 GOETHE ST	GROSSE POINTE WOODS	MI	48236
MCASLAN SCOTT		21521 GOETHE ST	GROSSE POINTE WOODS	MI	48236
RUSSELL INVESTMENTS INC		510 COLONIAL CT	GROSSE POINTE WOODS	MI	48236
WAGNER DANIEL K		656 PERRIEN PL	GROSSE POINTE WOODS	MI	48236
MCSKIMMING SCOTT W	MCSKIMMING KATHERINE B	724 CANTERBURY RD	GROSSE POINTE WOODS	MI	48236
LYONS PAMELA		731 S OXFORD RD	GROSSE POINTE WOODS	MI	48236
KOUEITER GEORGE		895 AVON CT	GROSSE POINTE WOODS	MI	48236
ANDONIADES ANTHONY		938 S RENAUD RD	GROSSE POINTE WOODS	MI	48236
BERING GROUP INCORPORATED		983 HOLLYWOOD AVE	GROSSE POINTE WOODS	MI	48236
HANSON'S RUNNING SHOP, INC.		20964 MACK AVE	GROSSE POINTE WOODS	MI	48236
ATTORNEY SEAN BYRNE, PLLC		21002 MACK AVE	GROSSE POINTE WOODS	MI	48236
BELICA & ASSOCIATES, LLC		21002 MACK AVE	GROSSE POINTE WOODS	MI	48236
FRANCIS X. KING, LAW OFFICE		21002 MACK AVE	GROSSE POINTE WOODS	MI	48236
G.P. PHYSICIANS X-RAY, INC.		21003 MACK AVE	GROSSE POINTE WOODS	MI	48236
CARE		21012 MACK AVE	GROSSE POINTE WOODS	MI	48236
INVESTORS MGMT. SVCS.		21012 MACK AVE 2ND FL	GROSSE POINTE WOODS	MI	48236
EDIBLE ARRANGEMENTS		21016 MACK AVE	GROSSE POINTE WOODS	MI	48236
SUBWAY		21020 MACK AVE	GROSSE POINTE WOODS	MI	48236
SPA SERENITY		21023 MACK AVE	GROSSE POINTE WOODS	MI	48236
WOODS DENTAL/CAROL J. QUINN, DDS		21024 MACK AVE	GROSSE POINTE WOODS	MI	48236
SAMIRAS FAMILY FASHION		21027 MACK AVE	GROSSE POINTE WOODS	MI	48236
MAC SUNGA CUSTOM TAILORING		21031 MACK AVE	GROSSE POINTE WOODS	MI	48236
MERCHANT'S FINE WINE		21034 MACK AVE	GROSSE POINTE WOODS	MI	48236
BOW WOW BAKE SHOPPE, LLC		21035 MACK AVE	GROSSE POINTE WOODS	MI	48236
HARRINGTON COMMUNICATIONS, LLC		21043 MACK AVE	GROSSE POINTE WOODS	MI	48236
HARRINGTON DRAGICH, PLLC		21043 MACK AVE	GROSSE POINTE WOODS	MI	48236
BIGGBY COFFEE		21110 MACK AVE	GROSSE POINTE WOODS	MI	48236
F.L. ANDARY REALTY CO., INC		21114 MACK AVE	GROSSE POINTE WOODS	MI	48236
FRANCIS & FRANCIS		21115 MACK AVE	GROSSE POINTE WOODS	MI	48236
HARBOR FINANCIAL SERVICES		21115 MACK AVE	GROSSE POINTE WOODS	MI	48236
RUSSELL'S BARBER SHOP		21123 MACK AVE	GROSSE POINTE WOODS	MI	48236
NURSING UNLIMITED, INC		21131 MACK AVE	GROSSE POINTE WOODS	MI	48236

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GROSSE POINTE LAUNDRY		21138 MACK AVE	GROSSE POINTE WOODS	MI	48236
GROSSE POINTE COMPUTER		21142 MACK AVE	GROSSE POINTE WOODS	MI	48236
THE EAR CENTER, INC.		21142 MACK AVE 1	GROSSE POINTE WOODS	MI	48236
HUNGRY HOWIES PIZZA		21143 MACK AVE	GROSSE POINTE WOODS	MI	48236
JOSEF'S EUROPEAN PASTRY SHOP		21150 MACK AVE	GROSSE POINTE WOODS	MI	48236
KITTYS DOCTOR		21205 MACK AVE	GROSSE POINTE WOODS	MI	48236
DELIGHT BAKERY & CAFE		21211 MACK AVE	GROSSE POINTE WOODS	MI	48236
UNCLE PAULS PIZZA		21215 MACK AVE	GROSSE POINTE WOODS	MI	48236
KUSCH & RAUBOLT, D.D.S., P.L.L.C.		21219 MACK AVE	GROSSE POINTE WOODS	MI	48236
SUNRISE ASSISTED LIVING OF GROSSE PTE WOODS		21260 MACK AVE	GROSSE POINTE WOODS	MI	48236
ANN M. TOBIN, ATTORNEY		21300 MACK AVE	GROSSE POINTE WOODS	MI	48236
FINANCIAL MANAGEMENT CONSULTANTS		21300 MACK AVE	GROSSE POINTE WOODS	MI	48236
LAW OFFICES OF ROBERT H. FORTUNATE		21300 MACK AVE	GROSSE POINTE WOODS	MI	48236
COMERICA, MACK/BRYS 251		21303 MACK AVE	GROSSE POINTE WOODS	MI	48236
BURNS FINANCIAL SERVICES		21304 MACK AVE	GROSSE POINTE WOODS	MI	48236
TOWNE MORTGAGE		21304 MACK AVE 1 - 5	GROSSE POINTE WOODS	MI	48236
CONTEMPORARY FAMILY DENTISTRY, PC		21308 MACK AVE	GROSSE POINTE WOODS	MI	48236
GROSSE POINTE NEWS/SCS CONNECTION		21316 MACK AVE	GROSSE POINTE WOODS	MI	48236
ARNELL PATRICIA		360 LINCOLN	GROSSE POINTE	MI	48230
RABAUT VINCENT C	RABAUT LYNDA M	425 WASHINGTON	GROSSE POINTE	MI	48230
PULEO PEPPINO	PULEO-TAGUE ELIZABETH	487 LAKE LAND	GROSSE POINTE	MI	48230
ROBERT'S THOMAS W	ROBERTS SARA E	706 RIVARD BLVD	GROSSE POINTE	MI	48230
CONN EMMYLOU		840 WASHINGTON RD	GROSSE POINTE	MI	48230-1291
JOHNSON JAMES J		101 HANDY PL	GROSSE POINTE FARMS	MI	48236
DOMBROWSKI JOCELYN		102 MERRIWEATHER RD	GROSSE POINTE FARMS	MI	48236
COTZIAS INVESTMENT GROUP INC		18472 MACK AVE	GROSSE POINTE FARMS	MI	48236
ANDRUS DOUGLAS E	ANDRUS J DENNIS	279 VINCENNES PL	GROSSE POINTE FARMS	MI	48236
MITCHELL ERIC S	HALDANE LAURI	1103 BERKSHIRE	GROSSE POINTE PARK	MI	48230
YORKSHIRE PARTNERS LLC		1258 YORKSHIRE RD	GROSSE POINTE PARK	MI	48230
TODHUNTER JOHN	TODHUNTER GAVIE	1259 BEDFORD	GROSSE POINTE PARK	MI	48230
J MCKENNA FAMILY LLC		15200 WINDMILL POINTE	GROSSE POINTE PARK	MI	48230
ANDRZEJCZAK ANDREA L		15417 ESSEX	GROSSE POINTE PARK	MI	48230
RODEMICH JOHN		962 BEACONSFIELD AVE	GROSSE POINTE PARK	MI	48230
GARGARO EUGENE A JR		22 RENAUD RD	GROSSE POINTE SHORES	MI	48236
FONTANA LEGACY LLC		31 FONTANA LN	GROSSE POINTE SHORES	MI	48236
SEID-ARABI MANAF		735 LAKE SHORE RD	GROSSE POINTE SHORES	MI	48236
ATTAR VICTOR M	ATTAR GLADYS	75 MOORLAND DR	GROSSE POINTE SHORES	MI	48236
QUAZ REALTY LLC		757 BALLANTYNE RD	GROSSE POINTE SHORES	MI	48236
HENEIN NAIRA S		785 LAKE SHORE DR	GROSSE POINTE SHORES	MI	48236
GARLAPATI ADINARAYANA		80 N DUVAL RD	GROSSE POINTE SHORES	MI	48236
BURKE THOMAS P		88 S DEEPLANDS RD	GROSSE POINTE SHORES	MI	48236
LEVICK LYDIA DIANA		9 FAIRLAKE LN	GROSSE POINTE SHORES	MI	48236
REED HARRIET A		925 BALLANTYNE RD	GROSSE POINTE SHORES	MI	48236
JASMUND & JASMUND LLC		341 LAKEWOOD DR	BLOOMFIELD HILLS	MI	48304
DEVINE DIANE E		4511 LAKEVIEW CT	BLOOMFIELD HILLS	MI	48301
SARACINO VINCE		501 WATTLES RD	BLOOMFIELD HILLS	MI	48304
SMYLY THOMAS	SMYLY CYNTHIA	737 SATTERLEE	BLOOMFIELD HILLS	MI	48304
FLECK MICHAEL T	FLECK WILLIAM H	47A POCONO RIDGE RD	BROOKFIELD	CT	06804
DETTLOFF DONALD J & DETTLOFF MAE J	DETTLOFF DAVID J LIFE ESTATE	11536 APPLEJACK CT	CINCINNATI	OH	45249
ZUREK LAWRENCE A	ZUREK DOROTHY A	18726 WOODS DR	CLINTON TOWNSHIP	MI	48036
SORIANO ADRIAN	SORIANO GRACE	34250 PENNSYLVANIA	CLINTON TOWNSHIP	MI	48035
GUSTAFSON CYNTHIA	SMITH BRENDA	37735 VIA ROSALIE	CLINTON TOWNSHIP	MI	48036
VANSKLIG DUCKETS INVESTMENT GROUP		42619 WALKER	CLINTON TOWNSHIP	MI	48038

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SCOTT RICHARD A	SCOTT JULIA F	PO BOX 227	CROSS VILLAGE	MI	49723
CLARK GARY F	KING CAROLYN	19147 GAINSBOROUGH	DETROIT	MI	48223
AMINI YUSEF		5515 ASHLEY ST	DETROIT	MI	48236
DAUDLIN GEORGE E		7720 W CHICAGO	DETROIT	MI	48204
VERICREST FINANCIAL INCORPORATED		23938 REASEARCH DR STE 300	FARMINGTON HILLS	MI	48335
HARTEMAYER LIMITED PARTNERSHIP		2601 CHESTNUT AVE UNIT 3502	GLENVIEW	IL	60026
RIVIERA MACK LLC		35464 JEFFERS COURT	HARRISON TOWNSHIP	MI	48045
WILLIAMS JOHN A	WILLIAMS SARA E	36 GOODRICH AVE	HILLSDALE	MI	49242
COMERICA BANK		2800 POST OAK BLVD STE 4200	HOUSTON	TX	77056
MALEY KEVIN F		4731 ST JOSEPH	LISLIE	IL	60532-1819
ADRID JOSEPH E	ADRID KIMBERLY A	16338 HOWARD DR	MACOMB TOWNSHIP	MI	48092
MASI ADELE		52841 HUNTERS POINTE DR	MACOMB TOWNSHIP	MI	48042
POZIOS KONSTANTINOS E		29323 STONECROFT	MOUNT CLEMENS	MI	48043
RIINA LEONARD		1982 INDIAN LAKE RD	NATIONAL CITY	MI	48748-9624
BERNIER LIVING TRUST		1324 E DUNBAR DR	PHOENIX	AZ	85042
AMAN MOHAMMAD M		5912 BROADMOOR DR	PLANO	TX	75093
HANSON KEITH		255 CROSS CREEK BLVD	ROCHESTER HILLS	MI	48306
NGPCP/BRYS CENTRE LLC		27172 WOODWARD AVE STE 150	ROYAL OAK	MI	48067
BARTO GARY	BARTO JOAN	5271 VINE RD	SAINT CLAIR	MI	48079
OCCUPANT		21401 GREATER MACK AVE	SAINT CLAIR SHORES	MI	48080
OCCUPANT		21420 GREATER MACK AVE	SAINT CLAIR SHORES	MI	48080
OCCUPANT		21423 GREATER MACK AVE	SAINT CLAIR SHORES	MI	48080
OCCUPANT		21480 GREATER MACK AVE	SAINT CLAIR SHORES	MI	48080
OCCUPANT		21501 GREATER MACK AVE	SAINT CLAIR SHORES	MI	48080
OCCUPANT		21607 GREATER MACK AVE	SAINT CLAIR SHORES	MI	48080
OCCUPANT		21620 GREATER MACK AVE	SAINT CLAIR SHORES	MI	48080
OCCUPANT		21621 GREATER MACK AVE	SAINT CLAIR SHORES	MI	48080
OCCUPANT		21711 GREATER MACK AVE	SAINT CLAIR SHORES	MI	48080
GAGLIO JOSEPH		21730 KRAMER	SAINT CLAIR SHORES	MI	48080
OCCUPANT		21800 GREATER MACK AVE	SAINT CLAIR SHORES	MI	48080
OCCUPANT		21900 SHOREPOINTE LN	SAINT CLAIR SHORES	MI	48080
OCCUPANT		21901 SHOREPOINTE LN	SAINT CLAIR SHORES	MI	48080
OCCUPANT		21904 SHOREPOINTE LN	SAINT CLAIR SHORES	MI	48080
OCCUPANT		21905 SHOREPOINTE LN	SAINT CLAIR SHORES	MI	48080
OCCUPANT		21908 SHOREPOINTE LN	SAINT CLAIR SHORES	MI	48080
OCCUPANT		21909 SHOREPOINTE LN	SAINT CLAIR SHORES	MI	48080
OCCUPANT		21912 SHOREPOINTE LN	SAINT CLAIR SHORES	MI	48080
OCCUPANT		21913 SHOREPOINTE LN	SAINT CLAIR SHORES	MI	48080
OCCUPANT		21916 SHOREPOINTE LN	SAINT CLAIR SHORES	MI	48080
OCCUPANT		21917 SHOREPOINTE LN	SAINT CLAIR SHORES	MI	48080
OCCUPANT		21920 SHOREPOINTE LN	SAINT CLAIR SHORES	MI	48080
OCCUPANT		21921 SHOREPOINTE LN	SAINT CLAIR SHORES	MI	48080
OCCUPANT		21924 SHOREPOINTE LN	SAINT CLAIR SHORES	MI	48080
OCCUPANT		21925 SHOREPOINTE LN	SAINT CLAIR SHORES	MI	48080
OCCUPANT		21928 SHOREPOINTE LN	SAINT CLAIR SHORES	MI	48080
OCCUPANT		21929 SHOREPOINTE LN	SAINT CLAIR SHORES	MI	48080
OCCUPANT		21932 SHOREPOINTE LN	SAINT CLAIR SHORES	MI	48080
OCCUPANT		21933 SHOREPOINTE LN	SAINT CLAIR SHORES	MI	48080
OCCUPANT		21936 SHOREPOINTE LN	SAINT CLAIR SHORES	MI	48080
OCCUPANT		21937 SHOREPOINTE LN	SAINT CLAIR SHORES	MI	48080
OCCUPANT		21940 SHOREPOINTE LN	SAINT CLAIR SHORES	MI	48080
OCCUPANT		21941 SHOREPOINTE LN	SAINT CLAIR SHORES	MI	48080
OCCUPANT		21945 SHOREPOINTE LN	SAINT CLAIR SHORES	MI	48080

21336 Mack Ave - 1000' Radius

ownersname	ownersna_1	ownerstreet	ownercity	ownerstate	ownerzipco
OCCUPANT		21949 SHOREPOINTE LN	SAINT CLAIR SHORES	MI	48080
OCCUPANT		21950 CHALON ST	SAINT CLAIR SHORES	MI	48080
OCCUPANT		21950 EDMUNTON ST	SAINT CLAIR SHORES	MI	48080
OCCUPANT		21951 CHALON ST	SAINT CLAIR SHORES	MI	48080
OCCUPANT		21953 SHOREPOINTE LN	SAINT CLAIR SHORES	MI	48080
OCCUPANT		21957 SHOREPOINTE LN	SAINT CLAIR SHORES	MI	48080
OCCUPANT		21961 SHOREPOINTE LN	SAINT CLAIR SHORES	MI	48080
OCCUPANT		21965 SHOREPOINTE LN	SAINT CLAIR SHORES	MI	48080
OCCUPANT		21969 SHOREPOINTE LN	SAINT CLAIR SHORES	MI	48080
OCCUPANT		22000 CHALON ST	SAINT CLAIR SHORES	MI	48080
OCCUPANT		22000 EDMUNTON ST	SAINT CLAIR SHORES	MI	48080
OCCUPANT		22000 MAUER ST	SAINT CLAIR SHORES	MI	48080
OCCUPANT		22001 CHALON ST	SAINT CLAIR SHORES	MI	48080
OCCUPANT		22001 EDMUNTON ST	SAINT CLAIR SHORES	MI	48080
OCCUPANT		22001 SHOREPOINTE LN	SAINT CLAIR SHORES	MI	48080
OCCUPANT		22005 SHOREPOINTE LN	SAINT CLAIR SHORES	MI	48080
OCCUPANT		22009 SHOREPOINTE LN	SAINT CLAIR SHORES	MI	48080
OCCUPANT		22013 SHOREPOINTE LN	SAINT CLAIR SHORES	MI	48080
OCCUPANT		22016 SHADY LN	SAINT CLAIR SHORES	MI	48080
OCCUPANT		22017 SHOREPOINTE LN	SAINT CLAIR SHORES	MI	48080
OCCUPANT		22021 SHOREPOINTE LN	SAINT CLAIR SHORES	MI	48080
OCCUPANT		22024 SHADY LN	SAINT CLAIR SHORES	MI	48080
OCCUPANT		22025 SHOREPOINTE LN	SAINT CLAIR SHORES	MI	48080
OCCUPANT		22029 SHOREPOINTE LN	SAINT CLAIR SHORES	MI	48080
OCCUPANT		22033 SHOREPOINTE LN	SAINT CLAIR SHORES	MI	48080
OCCUPANT		22037 SHOREPOINTE LN	SAINT CLAIR SHORES	MI	48080
OCCUPANT		22041 SHOREPOINTE LN	SAINT CLAIR SHORES	MI	48080
OCCUPANT		22045 SHOREPOINTE LN	SAINT CLAIR SHORES	MI	48080
OCCUPANT		22049 SHOREPOINTE LN	SAINT CLAIR SHORES	MI	48080
OCCUPANT		22050 CHALON ST	SAINT CLAIR SHORES	MI	48080
OCCUPANT		22050 EDMUNTON ST	SAINT CLAIR SHORES	MI	48080
OCCUPANT		22050 MAUER ST	SAINT CLAIR SHORES	MI	48080
OCCUPANT		22051 CHALON ST	SAINT CLAIR SHORES	MI	48080
OCCUPANT		22051 EDMUNTON ST	SAINT CLAIR SHORES	MI	48080
OCCUPANT		22053 SHOREPOINTE LN	SAINT CLAIR SHORES	MI	48080
OCCUPANT		22057 SHOREPOINTE LN	SAINT CLAIR SHORES	MI	48080
OCCUPANT		22061 SHOREPOINTE LN	SAINT CLAIR SHORES	MI	48080
OCCUPANT		22065 SHOREPOINTE LN	SAINT CLAIR SHORES	MI	48080
OCCUPANT		22100 CHALON ST	SAINT CLAIR SHORES	MI	48080
OCCUPANT		22100 EDMUNTON ST	SAINT CLAIR SHORES	MI	48080
OCCUPANT		22100 MAUER ST	SAINT CLAIR SHORES	MI	48080
OCCUPANT		22100 SHADY LN	SAINT CLAIR SHORES	MI	48080
OCCUPANT		22101 CHALON ST	SAINT CLAIR SHORES	MI	48080
OCCUPANT		22101 EDMUNTON ST	SAINT CLAIR SHORES	MI	48080
OCCUPANT		22101 MAUER ST	SAINT CLAIR SHORES	MI	48080
OCCUPANT		22110 CHALON ST	SAINT CLAIR SHORES	MI	48080
OCCUPANT		22110 EDMUNTON ST	SAINT CLAIR SHORES	MI	48080
OCCUPANT		22110 MAUER ST	SAINT CLAIR SHORES	MI	48080
OCCUPANT		22110 SHADY LN	SAINT CLAIR SHORES	MI	48080
OCCUPANT		22111 CHALON ST	SAINT CLAIR SHORES	MI	48080
OCCUPANT		22111 EDMUNTON ST	SAINT CLAIR SHORES	MI	48080
OCCUPANT		22111 MAUER ST	SAINT CLAIR SHORES	MI	48080
OCCUPANT		22115 SHADY LN	SAINT CLAIR SHORES	MI	48080

21336 Mack Ave - 1000' Radius

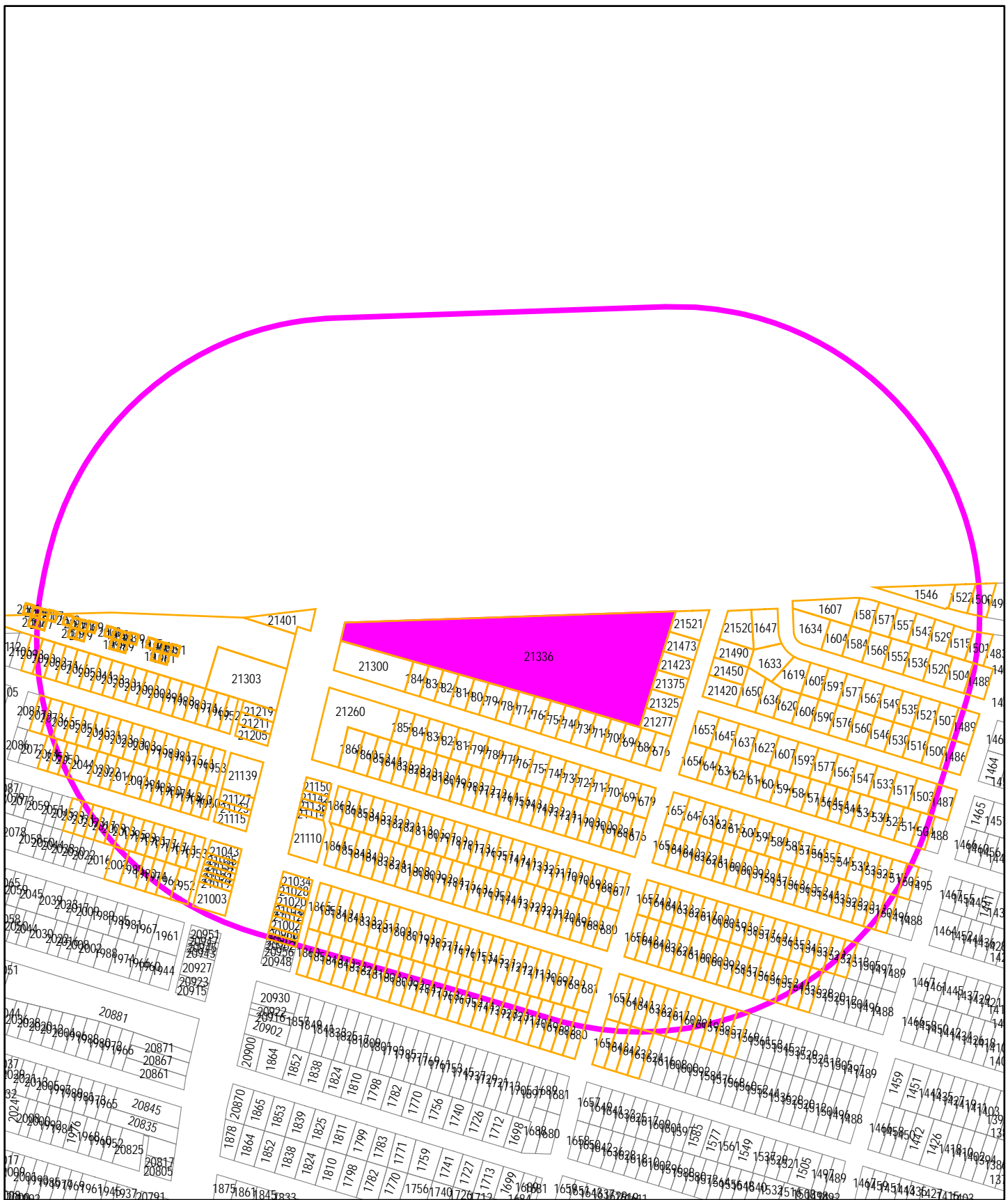
ownersname	ownersna_1	ownerstreet	ownercity	ownerstate	ownerzipco
OCCUPANT		22118 SHADY LN	SAINT CLAIR SHORES	MI	48080
OCCUPANT		22119 SHADY LN	SAINT CLAIR SHORES	MI	48080
OCCUPANT		22120 CHALON ST	SAINT CLAIR SHORES	MI	48080
OCCUPANT		22120 EDMUNTON ST	SAINT CLAIR SHORES	MI	48080
OCCUPANT		22120 MAUER ST	SAINT CLAIR SHORES	MI	48080
OCCUPANT		22121 CHALON ST	SAINT CLAIR SHORES	MI	48080
OCCUPANT		22121 EDMUNTON ST	SAINT CLAIR SHORES	MI	48080
OCCUPANT		22121 MAUER ST	SAINT CLAIR SHORES	MI	48080
OCCUPANT		22124 SHADY LN	SAINT CLAIR SHORES	MI	48080
OCCUPANT		22125 SHADY LN	SAINT CLAIR SHORES	MI	48080
OCCUPANT		22130 CHALON ST	SAINT CLAIR SHORES	MI	48080
OCCUPANT		22130 EDMUNTON ST	SAINT CLAIR SHORES	MI	48080
OCCUPANT		22130 MAUER ST	SAINT CLAIR SHORES	MI	48080
OCCUPANT		22130 SHADY LN	SAINT CLAIR SHORES	MI	48080
OCCUPANT		22131 EDMUNTON ST	SAINT CLAIR SHORES	MI	48080
OCCUPANT		22131 MAUER ST	SAINT CLAIR SHORES	MI	48080
OCCUPANT		22140 CHALON ST	SAINT CLAIR SHORES	MI	48080
OCCUPANT		22140 EDMUNTON ST	SAINT CLAIR SHORES	MI	48080
OCCUPANT		22140 MAUER ST	SAINT CLAIR SHORES	MI	48080
OCCUPANT		22141 CHALON ST	SAINT CLAIR SHORES	MI	48080
OCCUPANT		22141 EDMUNTON ST	SAINT CLAIR SHORES	MI	48080
OCCUPANT		22141 MAUER ST	SAINT CLAIR SHORES	MI	48080
OCCUPANT		22150 CHALON ST	SAINT CLAIR SHORES	MI	48080
OCCUPANT		22150 EDMUNTON ST	SAINT CLAIR SHORES	MI	48080
OCCUPANT		22150 MAUER ST	SAINT CLAIR SHORES	MI	48080
OCCUPANT		22151 CHALON ST	SAINT CLAIR SHORES	MI	48080
OCCUPANT		22151 MAUER ST	SAINT CLAIR SHORES	MI	48080
OCCUPANT		22157 MAUER ST	SAINT CLAIR SHORES	MI	48080
OCCUPANT		22160 CHALON ST	SAINT CLAIR SHORES	MI	48080
OCCUPANT		22160 MAUER ST	SAINT CLAIR SHORES	MI	48080
OCCUPANT		22161 MAUER ST	SAINT CLAIR SHORES	MI	48080
OCCUPANT		22170 CHALON ST	SAINT CLAIR SHORES	MI	48080
OCCUPANT		22171 MAUER ST	SAINT CLAIR SHORES	MI	48080
OCCUPANT		22180 CHALON ST	SAINT CLAIR SHORES	MI	48080
OCCUPANT		22181 CHALON ST	SAINT CLAIR SHORES	MI	48080
OCCUPANT		22190 CHALON ST	SAINT CLAIR SHORES	MI	48080
OCCUPANT		22200 CHALON ST	SAINT CLAIR SHORES	MI	48080
OCCUPANT		22210 CHALON ST	SAINT CLAIR SHORES	MI	48080
OCCUPANT		22300 EDMUNTON ST	SAINT CLAIR SHORES	MI	48080
OCCUPANT		22306 EDMUNTON ST	SAINT CLAIR SHORES	MI	48080
OCCUPANT		22310 EDMUNTON ST	SAINT CLAIR SHORES	MI	48080
OCCUPANT		22313 EDMUNTON ST	SAINT CLAIR SHORES	MI	48080
OCCUPANT		22317 EDMUNTON ST	SAINT CLAIR SHORES	MI	48080
OCCUPANT		22324 EDMUNTON ST	SAINT CLAIR SHORES	MI	48080
OCCUPANT		22325 EDMUNTON ST	SAINT CLAIR SHORES	MI	48080
OCCUPANT		22325 SAINT JOAN ST	SAINT CLAIR SHORES	MI	48080
OCCUPANT		22331 SAINT JOAN ST	SAINT CLAIR SHORES	MI	48080
OCCUPANT		22333 EDMUNTON ST	SAINT CLAIR SHORES	MI	48080
OCCUPANT		22337 SAINT JOAN ST	SAINT CLAIR SHORES	MI	48080
OCCUPANT		22343 SAINT JOAN ST	SAINT CLAIR SHORES	MI	48080
OCCUPANT		22400 SUNNYSIDE ST	SAINT CLAIR SHORES	MI	48080
OCCUPANT		22401 SUNNYSIDE ST	SAINT CLAIR SHORES	MI	48080
OCCUPANT		22406 EDMUNTON ST	SAINT CLAIR SHORES	MI	48080

21336 Mack Ave - 1000' Radius

ownersname	ownersna_1	ownerstreet	ownercity	ownerstate	ownerzipco
OCCUPANT		22407 SAINT JOAN ST	SAINT CLAIR SHORES	MI	48080
OCCUPANT		22413 SAINT JOAN ST	SAINT CLAIR SHORES	MI	48080
OCCUPANT		22414 EDMUNTON ST	SAINT CLAIR SHORES	MI	48080
OCCUPANT		22417 EDMUNTON ST	SAINT CLAIR SHORES	MI	48080
OCCUPANT		22419 SAINT JOAN ST	SAINT CLAIR SHORES	MI	48080
OCCUPANT		22421 EDMUNTON ST	SAINT CLAIR SHORES	MI	48080
OCCUPANT		22425 SAINT JOAN ST	SAINT CLAIR SHORES	MI	48080
OCCUPANT		22428 OVERLAKE ST	SAINT CLAIR SHORES	MI	48080
OCCUPANT		22432 OVERLAKE ST	SAINT CLAIR SHORES	MI	48080
OCCUPANT		22436 OVERLAKE ST	SAINT CLAIR SHORES	MI	48080
OCCUPANT		22440 EDMUNTON ST	SAINT CLAIR SHORES	MI	48080
OCCUPANT		22440 OVERLAKE ST	SAINT CLAIR SHORES	MI	48080
OCCUPANT		22441 EDMUNTON ST	SAINT CLAIR SHORES	MI	48080
OCCUPANT		22442 SUNNYSIDE ST	SAINT CLAIR SHORES	MI	48080
OCCUPANT		22448 SUNNYSIDE ST	SAINT CLAIR SHORES	MI	48080
OCCUPANT		22449 EDMUNTON ST	SAINT CLAIR SHORES	MI	48080
OCCUPANT		22500 OVERLAKE ST	SAINT CLAIR SHORES	MI	48080
OCCUPANT		22500 SUNNYSIDE ST	SAINT CLAIR SHORES	MI	48080
OCCUPANT		22501 EDMUNTON ST	SAINT CLAIR SHORES	MI	48080
OCCUPANT		22501 SAINT JOAN ST	SAINT CLAIR SHORES	MI	48080
OCCUPANT		22504 OVERLAKE ST	SAINT CLAIR SHORES	MI	48080
OCCUPANT		22507 E 8 MILE RD	SAINT CLAIR SHORES	MI	48080
OCCUPANT		22507 SAINT JOAN ST	SAINT CLAIR SHORES	MI	48080
OCCUPANT		22508 OVERLAKE ST	SAINT CLAIR SHORES	MI	48080
OCCUPANT		22512 OVERLAKE ST	SAINT CLAIR SHORES	MI	48080
OCCUPANT		22513 E 8 MILE RD	SAINT CLAIR SHORES	MI	48080
OCCUPANT		22513 SAINT JOAN ST	SAINT CLAIR SHORES	MI	48080
OCCUPANT		22516 OVERLAKE ST	SAINT CLAIR SHORES	MI	48080
OCCUPANT		22519 E 8 MILE RD	SAINT CLAIR SHORES	MI	48080
OCCUPANT		22519 SAINT JOAN ST	SAINT CLAIR SHORES	MI	48080
OCCUPANT		22520 OVERLAKE ST	SAINT CLAIR SHORES	MI	48080
OCCUPANT		22525 E 8 MILE RD	SAINT CLAIR SHORES	MI	48080
OCCUPANT		22525 SAINT JOAN ST	SAINT CLAIR SHORES	MI	48080
OCCUPANT		22530 OVERLAKE ST	SAINT CLAIR SHORES	MI	48080
OCCUPANT		22531 E 8 MILE RD	SAINT CLAIR SHORES	MI	48080
OCCUPANT		22531 SAINT JOAN ST	SAINT CLAIR SHORES	MI	48080
OCCUPANT		22537 SAINT JOAN ST	SAINT CLAIR SHORES	MI	48080
OCCUPANT		22600 OVERLAKE ST	SAINT CLAIR SHORES	MI	48080
OCCUPANT		22601 E 8 MILE RD	SAINT CLAIR SHORES	MI	48080
OCCUPANT		22601 OVERLAKE ST	SAINT CLAIR SHORES	MI	48080
OCCUPANT		22606 SAINT JOAN ST	SAINT CLAIR SHORES	MI	48080
OCCUPANT		22609 OVERLAKE ST	SAINT CLAIR SHORES	MI	48080
OCCUPANT		22612 SAINT JOAN ST	SAINT CLAIR SHORES	MI	48080
OCCUPANT		22617 OVERLAKE ST	SAINT CLAIR SHORES	MI	48080
OCCUPANT		22619 E 8 MILE RD	SAINT CLAIR SHORES	MI	48080
OCCUPANT		22624 OVERLAKE ST	SAINT CLAIR SHORES	MI	48080
OCCUPANT		22630 OVERLAKE ST	SAINT CLAIR SHORES	MI	48080
STONER AMY	STONER NANCY S	22944 GARY LN	SAINT CLAIR SHORES	MI	48080-2712
FRATTINI EDWARD		23061 LINGEMANN ST	SAINT CLAIR SHORES	MI	48080
HINSBY SUSAN G		PO BOX 653	SAINT CLAIR SHORES	MI	48080-0653
POPPLE CLIFFORD		1824 CRINELLA DR	SAINT HELENA	CA	94574
EME ENTERPRISES CORP		3194 NICKELBY	SHELBY TOWNSHIP	MI	48316
BEAUDETTE SUZANNE		53838 LYNNHAM LN	SHELBY TOWNSHIP	MI	48316

21336 Mack Ave - 1000' Radius

ownersname	ownersna_1	ownerstreet	ownercity	ownerstate	ownerzipco
1836 BRYE LLC		100 GALLERIA OFFICE CENTER STE 401	SOUTHFIELD	MI	48034
KUMON MATH READING SUCCESS OCCUPANT		21147 MACK AVE 43354 VIGUS CT.	STERLING HEIGHTS STERLING HEIGHTS	MI MI	48314 48314
HCRA PROPERTIES I LLC		333 N SUMMIT ST	TOLEDO	OH	43699-0086
HEALTH CARE REIT INC		4500 DORR ST	TOLEDO	OH	43615
ALLIED ACCEPTANCE CORPORATION		PO BOX 99342	TROY	MI	48099
SIGLER DEAN A		3802 ELIZABETH LAKE RD	WATERFORD	MI	48328
AT&T	Mr. Tim Black - Area Manager	100 S. Main Room 314	Mount Clemens	MI	48043
MichCon	Michael Sage, Permit Liaison	3150 E. Michigan Ave	Ypsilanti Township	MI	48198
Detroit Edison Company	Michael Blunden, Corp. Permit Coordinator	One Energy Plaza Dr.	Detroit	MI	48226
	PARKING LOT	1860 HAMPTON RD			



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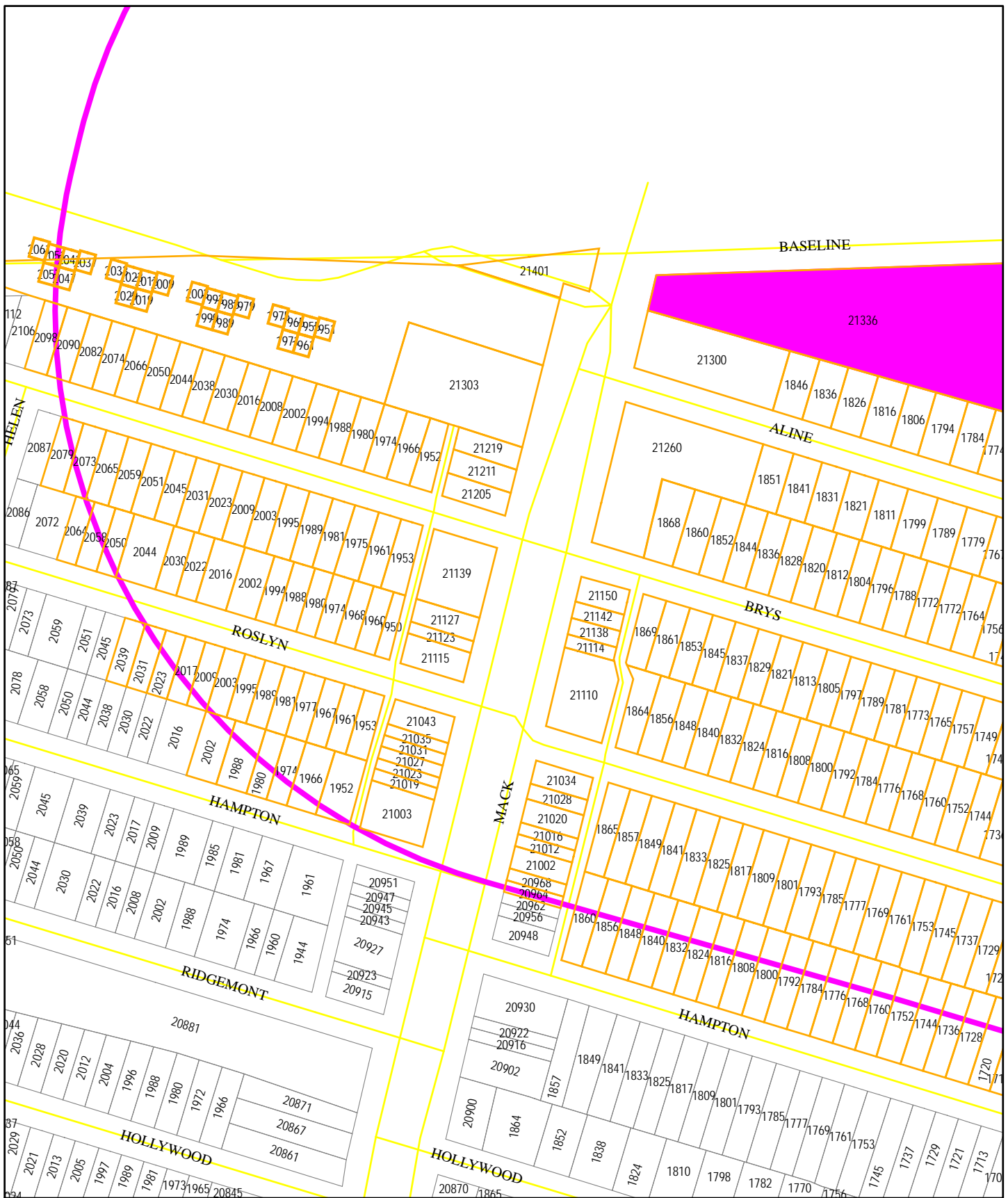


INFORMATION TECHNOLOGY DEPARTMENT
 Geographic Information Systems (GIS) Division

Subject: 21336 Mack Avenue

Date: 08/08/2013





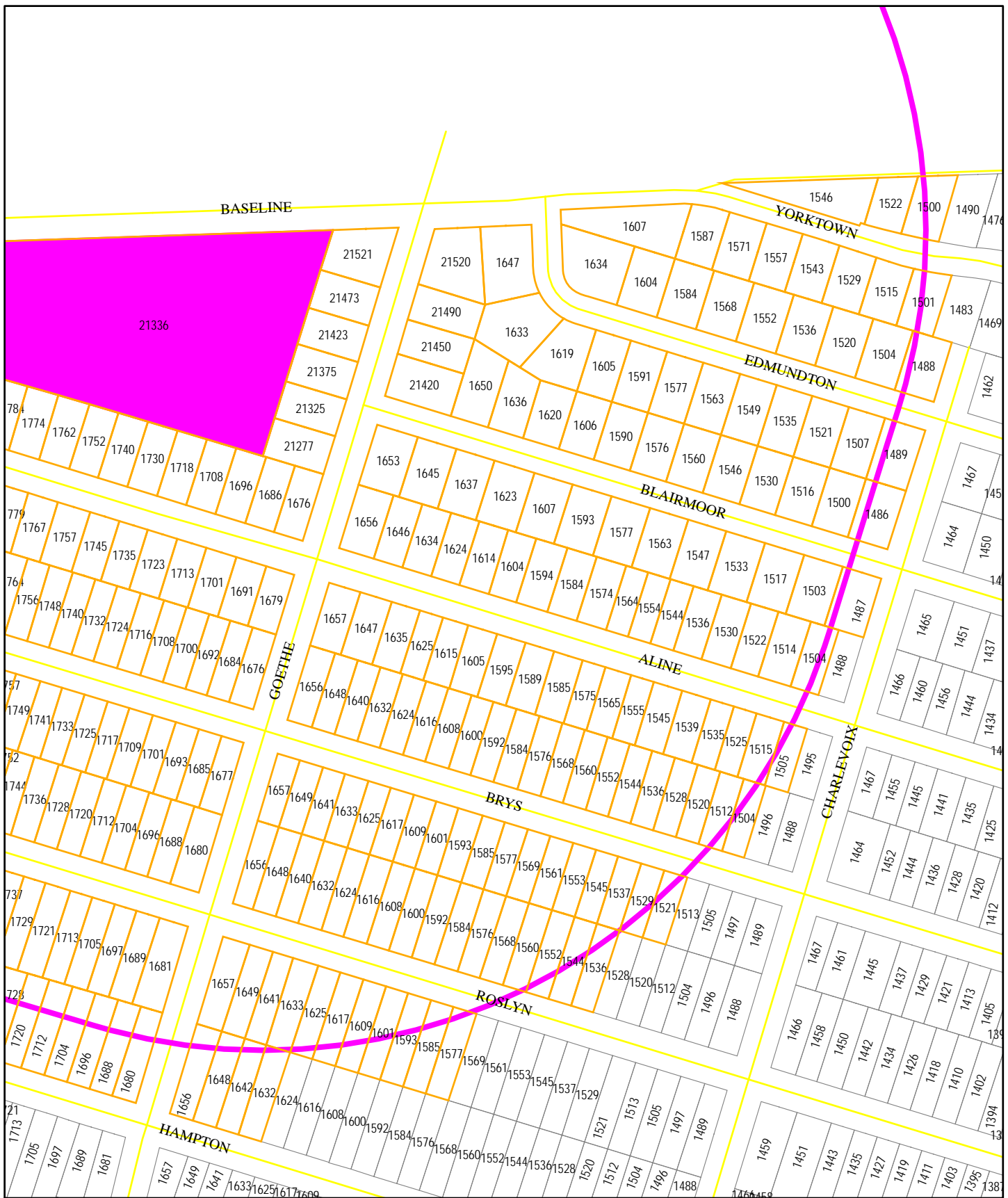
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 COPYRIGHT 1999 - 2013,
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INFORMATION TECHNOLOGY DEPARTMENT
 Geographic Information Systems (GIS) Division

Subject: 21336 Mack Avenue
 West Map
 Date: 08/08/2013





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INFORMATION TECHNOLOGY DEPARTMENT
 Geographic Information Systems (GIS) Division

Subject: 21336 Mack Avenue
 East Map

Date: 08/08/2013



Macomb County GIS

21420 GREATER MACK AVE

Tue Jul 30 2013 10:56:59 AM.



HALEY LAW FIRM, PLC

RECEIVED

August 5, 2013

AUG 07 2013
CITY OF GROSSE PTE. WOODS
BUILDING DEPT.

City of Grosse Pointe Woods
Attn: Gene Tutag, Building Official
20025 Mack Plaza Drive
Grosse Pointe Woods, MI 48236

RE: AT&T Mobility Site: MI1040
Stealth antenna facility at Milk River Lift Station

Dear Mr. Tutag,

Enclosed please find the following:

1. Special land use application;
2. Two (2) AT&T request for special land use project summaries;
3. One (1) CD with an electronic copy of the drawings and project summary;
4. One (1) set of 11' x 17' drawings;
5. \$1000.00 Application fee.

If you need anything else please call me.

Thank you,



Wallace R. Haley
Enclosure

10059 Bergin Road
Howell, MI 48843
517-518-8623
Fax: 517-518-8639

**City of Grosse Pointe Woods
BUILDING DEPARTMENT
Monthly Financial Report – July 2013**

Permits Issued:	192	
Rental Certificates:	14	Total: \$ 53,320
Vacant/Foreclosure:	2	

CODE ENFORCEMENT

Abandoned/Foreclosure Compl. Notices Issued:	2
# of Complaints Investigated by Code Enforcement:	43
Closed Due to Compliance:	36
Open for Longer Compliance Time:	7
Citations Issued:	1
Early Trash Notices:	7
Code Violation Notices to Residents:	29
Tall Grass Notices Issued:	44
Stop Work notices to Contractors (working w/o permit):	10
Outside Storage:	12

NEW BUSINESS

None