# CITY OF FRANKLIN PLAN COMMISSION MEETING\* FRANKLIN CITY HALL COUNCIL CHAMBERS 9229 W. LOOMIS ROAD, FRANKLIN, WISCONSIN AGENDA

THURSDAY, JUNE 6, 2019, 7:00 P.M.

- A. Call to Order and Roll Call
- B. Approval of Minutes
  - 1. Approval of regular meeting of May 23, 2019.
- C. **Public Hearing Business Matters** (action may be taken on all matters following the respective Public Hearing thereon)
  - 1. ACTION PDR, INC., A RESIDENTIAL PROPERTY DAMAGE REPAIR CONTRACTOR, FIRE AND WATER DAMAGE REPAIR BUSINESS. Special Use application by Justin Johnson, President of Action PDR, Inc., a residential property damage repair contractor, to operate a fire and water damage repair business, primarily for insurance companies, out of an existing 1,700 square foot structure (900 square feet will be warehouse use and 800 square feet will be office use; employee vehicles will be parked outside at the front of the building (3/4 ton pick-up trucks and cargo vans)), with hours of operation from 7:00 a.m. to 6:00 p.m. weekdays, occasional Saturdays, and any time emergency repair work is required, property zoned M-1 Limited Industrial District, located at 10700 West Venture Drive, Suite F; Tax Key No. 705-8989-011. A PUBLIC HEARING IS SCHEDULED FOR THIS MEETING UPON THIS MATTER.
  - 2. UNITED STATES CELLULAR OPERATING COMPANY LLC INSTALLATION OF A TELECOMMUNICATIONS TOWER MONOPOLE AT ANDY'S GAS STATION. Special Use application by United States Cellular Operating Company LLC, to allow for the installation of a 125 foot monopole tower at Andy's gas station. The lease area (approximately 3,600 square feet (which includes a 2,304 square foot fenced compound), located in the northwest corner of the property) will consist of a gravel surface and will include a chain-link fence, the tower and ground equipment, and a 30 foot wide United States Cellular Access and Utility Easement is also proposed adjacent to the lease area located at 5120 West Ryan Road, property zoned B-3 Community Business District, bearing Tax Key No. 882-9999-002. A PUBLIC HEARING IS SCHEDULED FOR THIS MEETING UPON THIS MATTER.
- D. **Business Matters** (no Public Hearing is required upon the following matters; action may be taken on all matters)

Franklin Plan Commission Agenda 6/6/19 Page 2

1. **WYNDHAM HOMES LAND DIVISION.** Certified Survey Map application by Wyndham Homes LLC, to divide an existing approximately 4.97 acre property into two separate lots (Lot 1, with an existing single-family residence (which will be razed), will be approximately 2.48 acres and Lot 2 will be approximately 2.48 acres), property located at 3031 West Forest Hill Avenue, zoned R-3 Suburban/Estate Single-Family Residence District; Tax Key No. 832-9901-000.

#### E. Adjournment

\*Supporting documentation and details of these agenda items are available at City hall during normal business hours.

[Note: Upon reasonable notice, efforts will be made to accommodate the needs of disabled individuals through appropriate aids and services. For additional information, contact the City Clerk's office at (414) 425-7500.]

#### **REMINDERS:**

Next Regular Plan Commission Meeting: June 20, 2019

<sup>\*\*</sup>Notice is given that a majority of the Common Council may attend this meeting to gather information about an agenda item over which they have decision-making responsibility. This may constitute a meeting of the Common Council per *State ex rel. Badke v. Greendale Village Board*, even though the Common Council will not take formal action at this meeting.

City of Franklin Plan Commission Meeting May 23, 2019 Minutes unapproved

#### A. Call to Order and Roll Call

Mayor Steve Olson called the May 23, 2019 regular Plan Commission meeting to order at 7:00 p.m. in the Council Chambers at Franklin City Hall, 9229 West Loomis Road, Franklin, Wisconsin.

Present were Commissioners, Patricia Hogan, Adam Burckhardt, Alderman Mark Dandrea and City Engineer Glen Morrow. Excused was Commissioners Kevin Haley and David Fowler. Also present were Planning Manager Joel Dietl, Principal Planner Ben Kohout, City Attorney Jesse Wesolowski and Alderwoman Kristin Wilhelm.

#### **B.** Approval of Minutes

1. Regular Meeting of May 9, 2019.

Commissioner Hogan moved and Commissioner Burckhardt seconded approval of the May 9, 2019 minutes of the regular meeting of the Plan Commission. On voice vote, all voted 'aye'. Motion carried (4-0-2).

#### **C. Public Hearing Business Matters**

#### 1. STAR TRUCKING LLC OVER-THE-ROAD TRUCKING COMPANY BUSINESS. Natural

Resource Features Special Exception application by Boris Strbac, owner, Star Trucking LLC, to allow an existing gravel parking area and to remain within protected natural resource features consisting of 0.102 acres of wetland buffer and 0.22 acres of shore buffer (of which 0.106 acres are also wetland setback) to construct a gravel parking lot for an over-the-road trucking company business with a maximum of thirteen semi-trucks and trailers parked overnight on the east side of the property, such property zoned M-1 Limited Industrial District and C-1 Conservancy District, located at 11141 West Forest Home Avenue; Tax Key No. 704-9990-003.

Planning Manager Joel Dietl presented the request by Boris Strbac, owner, Star Trucking LLC, to allow an existing gravel parking area and to remain within protected natural resource features consisting of 0.102 acres of wetland buffer and 0.22 acres of shore buffer (of which 0.106 acres are also wetland setback) to construct a gravel parking lot for an over-the-road trucking company business with a maximum of thirteen semi-trucks and trailers parked overnight on the east side of the property, such property zoned M-1 Limited Industrial District and C-1 Conservancy District, located at 11141 West Forest Home Avenue.

The Official Notice of Public Hearing was read in to the record by Principal Planner Ben Kohout and the Public Hearing was opened at 7:05 and closed at 7:10.

Commissioner Burckhardt moved and no one seconded a motion to recommend approval of the Start Trucking LLC Natural Resource Features Special Exception pursuant to the Standards, Findings and Decision recommended by the Plan Commission and Common Council consideration of the Environmental Commission recommendations. Therefore the motion failed due to lack of a second.

Alderman Dandrea moved and Commissioner Hogan

seconded a motion to recommend denial of the Star Trucking LLC Natural Resource Features Special Exception. On voice vote, all voted 'aye'. Motion was approved (4-0-2).

2. WOODLAND'S EDGE AT FRANKLIN SENIOR INDEPENDENT LIVING APARTMENT COMPLEX **DEVELOPMENT.** Special Use Amendment application by Herman & Kittle Properties, Inc., for construction of a 48-unit senior independent living apartment complex consisting of 6 separate one-story cottage style buildings (one 12-unit, approximately 10,000 square feet, one 10-unit, approximately 8,400 square feet, one 8unit, approximately 6,800 square feet, and three 6-unit buildings, approximately 6,750 square feet each, with 8 units proposed as market rate units) (30 one-bedroom and 18 twobedroom units)) and a separate clubhouse, and associated landscaping, lighting, sanitary sewer, storm sewer and building elevation plans [the facility will be designed, marketed and restricted to those 55 years and older with household incomes of 30%, 50% and 60% of Area Median Household Income], upon property zoned R-8 Multiple-Family Residence District, located at 3709 West College Avenue; Tax Key No. 713-9996-003 [this application is amending Resolution No. 2017-7330, which approved a Special Use Amendment allowing a two story, 48 unit multi-family senior independent living apartment complex development use (formerly named "The Lakeview at Franklin") that did not move forward following use and site plan approvals].

Planning Manager Joel Dietl presented the request by Herman & Kittle Properties, Inc., for construction of a 48unit senior independent living apartment complex consisting of 6 separate one-story cottage style buildings (one 12-unit, approximately 10,000 square feet, one 10-unit, approximately 8,400 square feet, one 8-unit, approximately 6,800 square feet, and three 6-unit buildings, approximately 6,750 square feet each, with 8 units proposed as market rate units) (30 one-bedroom and 18 two-bedroom units)) and a separate clubhouse, and associated landscaping, lighting, sanitary sewer, storm sewer and building elevation plans [the facility will be designed, marketed and restricted to those 55 years and older with household incomes of 30%, 50% and 60% of Area Median Household Income], upon property zoned R-8 Multiple-Family Residence District, located at 3709 West College Avenue.

The Official Notice of Public hearing was read in to the record by Principal Planner Kohout and the Public Hearing was opened at 7:24 p.m. and closed at 8:02 p.m.

Alderman Dandrea moved and Commissioner Hogan seconded a motion to recommend approval of a Resolution to amend Resolution No. 2017-7246 imposing conditions and restrictions for the approval of a Special Use for a single-story, 48 unit multi-family senior independent living apartment complex development use located at 3709 West College Avenue to allow for construction of Woodland's Edge at Franklin 48 unit senior independent living apartment complex subject to addition of the suggestion in the staff report pertaining to architecture and that all resident parking be provided in garages. On voice vote, all voted 'aye'. Motion carried (4-0-2).

#### **D.** Business Matters

## 2. TAX INCREMENTAL DISTRICT NO. 5 PLANNED

City Attorney Jesse Wesolowski presented the request by the Developer who has requested the issuance of temporary

**DEVELOPMENT DISTRICT NO. 37** (THE ROCK SPORTS COMPLEX/BALLPARK COMMONS) BALLPARK **COMMONS SPORTS ANCHORED** MIXED-USE DEVELOPMENT PROJECT TEMPORARY OCCUPANCY PERMITS FOR THE **BUILDING C1 (OFFICE/RETAIL)** AND THE STADIUM USES AND ADDITIONAL/FUTURE **BUILDINGS USES.** The Developer has requested the issuance of temporary occupancy permits for the Building C1 (office/retail) and the Stadium uses north of West Rawson Avenue in the Ballpark Commons development and additional/future buildings uses. This subject is provided for the Plan Commission's information.

occupancy permits for the Building C1 (office/retail), the Stadium uses north of West Rawson Avenue, and additional/future building uses in the Ballpark Commons development.

The City Attorney further noted that this subject was provided for the Plan Commission's information, and that no action was required.

## 3. POLISH COMMUNITY CENTER PARKING LOT EXPANSION AND CREATION.

Unified Development Ordinance §15-3.0433 Planned Development District No. 28 (Polish Festivals, Inc. - Polish Community Center) Minor Amendment and Site Plan Amendment applications by Polish Heritage Alliance, Inc., applicant/property owner, Planned Development District No. 28 Amendment to allow additional parking spaces, in excess of the current number of parking spaces allowed by Planned Development District No. 28; Site Plan Amendment to expand the easterly parking lot to create 36 new parking stalls, 360 feet of new curb and gutter, 122 feet of storm sewer, lights and grading work (12,687 square feet of additional paved asphalt surface), removal of 28 existing trees which will be replaced with evergreen and canopy/shade trees, and to construct a new parking lot on the southwest side of the Polish

Planning Manager Joel Dietl presented the request by Polish Heritage Alliance, Inc., applicant/property owner, Planned Development District No. 28 Amendment to allow additional parking spaces, in excess of the current number of parking spaces allowed by Planned Development District No. 28; Site Plan Amendment to expand the easterly parking lot to create 36 new parking stalls, 360 feet of new curb and gutter, 122 feet of storm sewer, lights and grading work (12,687 square feet of additional paved asphalt surface), removal of 28 existing trees which will be replaced with evergreen and canopy/shade trees, and to construct a new parking lot on the southwest side of the Polish

#### **Minor Amendment Determination**

City Engineer Morrow moved and Alderman Dandrea seconded a motion determining the proposed amendment to be a Minor Amendment. On voice vote, all voted 'aye'. Motion carried (4-0-2).

#### **Planned Development District Ordinance Amendment**

Commissioner Hogan moved and Commissioner Burckhardt seconded a motion to recommend approval of an Ordinance to amend §15-3.0433 of the Unified Development Ordinance, Planned Development District No. 28 (Polish Festivals, Inc. – Polish Community Center) to allow for additional parking (6941 South 68<sup>th</sup> Street) All voted "aye". Motion carried (4-0-2).

#### **Site Plan Amendment**

Commissioner Hogan moved and City Engineer Morrow seconded a motion to approve a Resolution amending the Site Plan for property located at 6941 South 68<sup>th</sup> Street to allow for expansion of the easterly parking lot and creation of a southwest parking lot for the Polish Community Center (Tax Key No. 743-8978-004) with addition of a new condition, condition number 8, removing the proposed conditions pertaining to required UDO landscaping standards and that the applicant shall instead replace all existing native trees and all landscape plan required trees as they are removed or may die within this or other future projects within five years of such project approvals, on a one to one basis with native trees on the premises, or, if no room is available for the viable survival of said replacement trees on the premises, with an approved street tree placement, as approved by the City Engineer or designee, and that the applicant shall present a landscaping plan reflecting this condition subject to staff review and approval prior to final approval of this parking lot project showing the proposed planting placement and tree species satisfying these landscaping standards for this project. All voted "aye". Motion carried (4-0-2).

PLANNED DEVELOPMENT **DISTRICT NO. 37 (THE ROCK** SPORTS COMPLEX/BALLPARK **COMMONS) BASEBALL** STADIUM TEMPORARY USES AND STADIUM SIGNAGE REVIEW REQUIREMENT. The applicant is required, for the first annual review, to submit all plans and details for all semi-portable, semi-temporary, temporary, and product hawking structures, uses, and activities planned to occur at the stadium, to the Plan Commission for review and approval pursuant to Condition No. 4. of Plan Commission Resolution No. 2018-016; the applicant is required to submit a stadium Sign Plan clearly identifying all sign types, sizes, locations, colors, materials and lighting, and clearly identify which signage is viewable outside of the stadium, to the Plan Commission for review and approval pursuant to Condition No. 13. of Plan Commission Resolution No. 2018-016;

Planning Manager Joel Dietl presented a PLANNED DEVELOPMENT DISTRICT NO. 37 (THE ROCK SPORTS COMPLEX/BALLPARK COMMONS) BASEBALL STADIUM TEMPORARY USES AND STADIUM SIGNAGE REVIEW REQUIREMENT. The applicant is required, for the first annual review, to submit all plans and details for all semi-portable, semi-temporary, temporary, and product hawking structures, uses, and activities planned to occur at the stadium, to the Plan Commission for review and approval pursuant to Condition No. 4. of Plan Commission Resolution No. 2018-016; the applicant is required to submit a stadium Sign Plan clearly identifying all sign types, sizes, locations, colors, materials and lighting, and clearly identify which signage is viewable outside of the stadium, to the Plan Commission for review and approval pursuant to Condition No. 13. of Plan Commission Resolution No. 2018-016; property zoned Planned Development District No. 37 (The Rock Sports Complex/Ballpark Commons) and FW Floodway District, located at approximately 7005 South Ballpark Drive.

Commissioner Hogan moved and Alderman Dandrea seconded a motion to further revise the applicant's proposed baseball stadium temporary uses request as set forth in the Project Description/Analysis section of the Staff Report to property zoned Planned Development District No. 37 (The Rock Sports Complex/Ballpark Commons) and FW Floodway District, located at approximately 7005 South Ballpark Drive. the Plan Commission Meeting of May 23, 2019 subject to: addition of staff comment #1; revision of staff comment #2 to also approve fireworks on the opening week Thursday and Monday for this year only; revision of staff comment #3 to allow the scout camp out use subject to the provision of additional details to, and approvals from, the Police, Fire, and Health Departments, and that plans be submitted for City review at least two weeks before each event; and addition of staff comments #4, 5, 6, 7, and 8 All voted "aye". Motion carried (4-0-2).

Commissioner Hogan and City Engineer Morrow seconded a motion to approve the Baseball Stadium signage subject to the staff's review and approval. All voted "aye". Motion carried (4-0-2).

#### Adjournment

Commissioner Hogan moved and Alderman Dandrea seconded a motion to adjourn the Plan Commission meeting of May 23, 2019 at 9:17 p.m. All voted 'aye'; motion carried. (4-0-2).

#### CITY OF FRANKLIN

#### REPORT TO THE PLAN COMMISSION

#### Meeting of June 6, 2019

#### **Special Use**

**RECOMMENDATION:** City Development Staff recommends approval of the proposed Special Use application for a Fire and Water Damage Clean Up and Repair business use for Action PDR, Inc., upon property located at 10700 West Venture Drive, Suite F, subject to the conditions set forth in the attached draft resolution.

**Project Name:** Action PDR, Inc., Special Use

**Project Address:** 10700 West Venture Drive, Suite F

**Applicant:** Action PDR, Inc., Justin Johnson

Owners (property): Kendall Breunig (dba Sunset Investors)

Current Zoning (easement area): M-1 Limited Industrial District

**Use of Surrounding Properties:** Automobile dealerships to the north and south and

industrial uses to the east and west

**Applicant Action Requested:** Recommendation of approval to the Common Council for

the proposed Special Use application for a fire and water damage clean up and repair business use upon property

located at 10700 West Venture Drive, Suite F.

#### **Introduction:**

On March 18, 2019, Justin Johnson filed a Special Use application with the Department of City Development for a fire and water damage clean up and repair business use out of an existing structure upon property located at 10700 West Venture Drive, Suite F. The property is zoned M-1 Limited Industrial District, which allows Standard Industrial Classification (SIC) Title No. 1521 "General Contractors-Single-Family Houses" as a Special Use.

#### **Project Description/Analysis:**

According to the applicant, Action PDR, Inc., is a residential property damage repair contractor that does fire and water damage repirs, primarily for insurance companies. Their number of employees working out of the property are anticipated at 3, with subcontractors reporting to the job site. The hours of operation are proposed to be from 7:00 am to 6:00 pm, Monday through Friday, Saturdays on occasion and any time when there is emergency work to be done.

They anticipate on occupying 900 s.f. of space for warehouse use and 800 s.f. on the second floor space as office use.

For vehicles related to the business, they state in the project summary employee vehicles will be parked outside in front of the building and include <sup>3</sup>/<sub>4</sub> Ton pick up trucks and cargo vans, which are rated at 6,000 pounds. A cube van is proposed to be stored at EZ Self Storage facility adjacent to this property. If vehicles 8,000 pounds or greater were to be proposed to be stored

overnight, a special use request would need to be made for this. The applicant is not proposing this. Staff has no concerns with the proposed parking situation.

The applicant is not proposing any exterior building or site modifications at this time. The applicant is also not proposing any outside storage of materials with this request, nor would staff approve of this.

#### **Staff Recommendation:**

City Development Staff recommends approval of the proposed Special Use application for a fire and water damage clean up and repair business use for Action PDR, Inc., upon property located at 10700 West Venture Drive, Suite F, subject to the conditions set forth in the attached draft resolution.

#### CITY OF FRANKLIN

MILWAUKEE COUNTY [Draft 5-30-19]BK

RESOLUTION NO. 2019-

A RESOLUTION IMPOSING CONDITIONS AND RESTRICTIONS FOR THE APPROVAL OF A SPECIAL USE FOR A RESIDENTIAL PROPERTY DAMAGE REPAIR BUSINESS PERFORMING FIRE AND WATER DAMAGE REPAIRS USE UPON PROPERTY LOCATED AT 10700 WEST VENTURE DRIVE, SUITE F (JUSTIN JOHNSON, PRESIDENT OF ACTION PDR, INC., APPLICANT)

WHEREAS, Justin Johnson, President of Action PDR, Inc., a residential property damage repair contractor, having petitioned the City of Franklin for the approval of a Special Use within an M-1 Limited Industrial District under Standard Industrial Classification Title No. 1521 "General Contractors-Single-Family Houses", to operate a fire and water damage repair business, primarily for insurance companies, out of an existing 1,700 square foot structure (900 square feet will be warehouse use and 800 square feet will be office use; employee vehicles will be parked outside at the front of the building (3/4 ton pick-up trucks and cargo vans)), with hours of operation from 7:00 a.m. to 6:00 p.m. weekdays, occasional Saturdays, and any time emergency repair work is required, upon property located at 10700 West Venture Drive, Suite F, bearing Tax Key No. 705-8989-011, more particularly described as follows:

Parcel 2 of Certified Survey Map No. 4804, being a part of the North West 1/4 of the North West 1/4 of Section 5, in Township 5 North, Range 21 East in the City of Franklin, County of Milwaukee, State of Wisconsin, being a redivision of Parcel Nos. 2 and 3 of Certified Survey Map No. 4743, recoded on August 21, 1986, Reel 1942, Image 1197, as Document No. 5953282; and

WHEREAS, such petition having been duly referred to the Plan Commission of the City of Franklin for a public hearing, pursuant to the requirements of §15-9.0103D. of the Unified Development Ordinance, and a public hearing having been held before the Plan Commission on the 6th day of June, 2019, and the Plan Commission thereafter having determined to recommend that the proposed Special Use be approved, subject to certain conditions, and the Plan Commission further finding that the proposed Special Use upon such conditions, pursuant to §15-3.0701 of the Unified Development Ordinance, will be in harmony with the purposes of the Unified Development Ordinance and the Comprehensive Master Plan; that it will not have an undue adverse impact upon adjoining property; that it will not interfere with the development of neighboring property; that it will be served adequately by essential public facilities and services; that it will not cause undue traffic congestion; and that it will not result in damage to property of significant importance to nature, history or the like; and

WHEREAS, the Common Council having received such Plan Commission

JUSTIN JOHNSON, PRESIDENT OF	ACTION PDR, INC	- SPECIAL USE
RESOLUTION NO. 2019		
Page 2		

recommendation and also having found that the proposed Special Use, subject to conditions, meets the standards set forth under §15-3.0701 of the Unified Development Ordinance.

NOW, THEREFORE, BE IT RESOLVED, by the Mayor and Common Council of the City of Franklin, Wisconsin, that the petition of Justin Johnson, President of Action PDR, Inc., for the approval of a Special Use for the property particularly described in the preamble to this Resolution, be and the same is hereby approved, subject to the following conditions and restrictions:

- 1. That this Special Use is approved only for the use of the subject property by Justin Johnson, President of Action PDR, Inc., successors and assigns, as a fire and water damage repair business use, which shall be developed in substantial compliance with, and operated and maintained by Justin Johnson, President of Action PDR, Inc., pursuant to those plans City file-stamped May 23, 2019 and annexed hereto and incorporated herein as Exhibit A.
- 2. Justin Johnson, President of Action PDR, Inc., successors and assigns, shall pay to the City of Franklin the amount of all development compliance, inspection and review fees incurred by the City of Franklin, including fees of consults to the City of Franklin, for the Action PDR, Inc. fire and water damage repair business, within 30 days of invoice for same. Any violation of this provision shall be a violation of the Unified Development Ordinance, and subject to §15-9.0502 thereof and §1-19. of the Municipal Code, the general penalties and remedies provisions, as amended from time to time.
- 3. The approval granted hereunder is conditional upon Justin Johnson, President of Action PDR, Inc. and the fire and water damage repair business use for the property located at 10700 West Venture Drive, Suite F: (i) being in compliance with all applicable governmental laws, statutes, rules, codes, orders and ordinances; and (ii) obtaining all other governmental approvals, permits, licenses and the like, required for and applicable to the project to be developed and as presented for this approval.
- 4. There shall be no outside storage of vehicles, except for vehicles which do not exceed 8,000 pounds rated gross vehicle weight.
- 5. There shall be no outdoor storage of materials allowed on the property.

#### 6. [other conditions, etc.]

BE IT FURTHER RESOLVED, that in the event Justin Johnson, President of Action PDR, Inc., successors or assigns, or any owner of the subject property, does not comply with one or any of the conditions and restrictions of this Special Use Resolution, following a ten (10) day notice to cure, and failure to comply within such time period, the Common Council,

JUSTIN JOHNSON, PRESIDENT OF ACTION PDR, INC. – SPECIAL U	SE
RESOLUTION NO. 2019	
PAGE 3	

upon notice and hearing, may revoke the Special Use permission granted under this Resolution.

BE IT FURTHER RESOLVED, that any violation of any term, condition or

restriction of this Resolution is hereby deemed to be, and therefore shall be, a violation of the Unified Development Ordinance, and pursuant to §15-9.0502 thereof and §1-19. of the Municipal Code, the penalty for such violation shall be a forfeiture of no more than \$2,500.00, or such other maximum amount and together with such other costs and terms as may be specified therein from time to time. Each day that such violation continues shall be a separate violation. Failure of the City to enforce any such violation shall not be a waiver of that or any other violation.

BE IT FURTHER RESOLVED, that this Resolution shall be construed to be such Special Use Permit as is contemplated by §15-9.0103 of the Unified Development Ordinance.

BE IT FURTHER RESOLVED, pursuant to §15-9.0103G. of the Unified Development Ordinance, that the Special Use permission granted under this Resolution shall be null and void upon the expiration of one year from the date of adoption of this Resolution, unless the Special Use has been established by way of the issuance of an occupancy permit for such use.

BE IT FINALLY RESOLVED, that the City Clerk be and is hereby directed to obtain the recording of a certified copy of this Resolution in the Office of the Register of Deeds for Milwaukee County, Wisconsin.

ced at a regular i	<u> </u>	ouncil of the City of Franklin thi	is
	a regular meeting of the	Common Council of the City of 9.	ΣÍ

	FION NO. 2019		ON PDR, INC. – SPECIAL USE
THOL			APPROVED:
			Stephen R. Olson, Mayor
ATTEST:			
Sandra L.	Wesolowski, C	ity Clerk	
AYES	,	ABSENT	

#### **Benjamin Kohout**

From:

Benjamin Kohout

Sent:

Wednesday, May 22, 2019 5:51 PM

To:

justin@actionpdr.com

Cc:

Kendall Breunig; Joel Dietl; Gail Olsen

Subject:

Staff Comments for June 6 Special Use for 10700 W Venture Drive

**Attachments:** 

10700 Site Photos 11x17.pdf; 180213 Franklin Venture C100.pdf; Action PDR Special Use

application.pdf; Legal Description for 10700 W.docx; Special Use General Standards

Response.docx; ZONIG-CO.DOC

Justin,

Nice speaking with you on the phone today.

Staff has reviewed your request and offers the following comments:

- 1. No outside storage of vehicles, except for vehicles which do not exceed 8,000 pounds rated gross vehicle weight.
- 2. No outdoor storage of materials be allowed on the property.

Fire Department:

No Comments

Police Department:

No Comments

Engineering:

No Comments

Please provide this office with 12 collated copies of the original submittal materials, which I am attaching to this email, by no later than Friday, May 24 by 5pm. If you plan on delivering sometime next week, please our office know (Gail or myself) asap.

Regards,

#### Ben Kohout, AICP

Principal Planner City of Franklin 9229 W. Loomis Rd. Franklin, WI 53132 O: (414) 425-4024

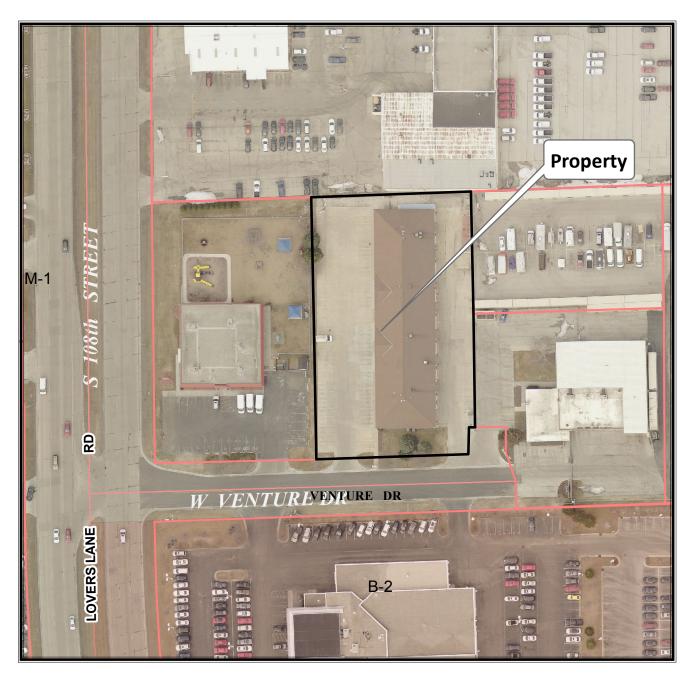
bkohout@franklinwi.gov

City of Franklin Planning Website

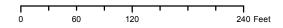




## 10700 W. Venture Drive TKN: 705 8989 011



Planning Department (414) 425-4024

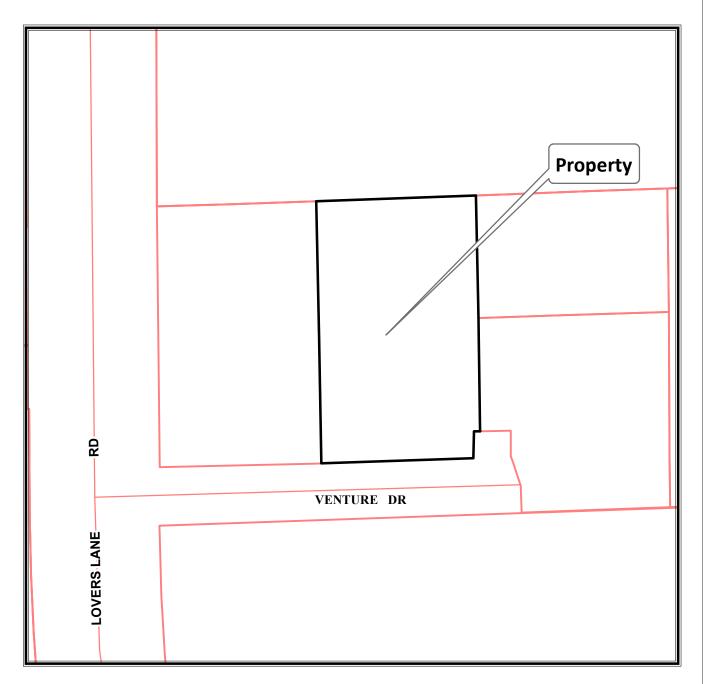


NORTH 2017 Aerial Photo

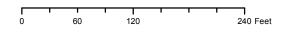
This map shows the approximate relative location of property boundaries but was not prepared by a professional land surveyor. This map is provided for informational purposes only and may not be sufficient or appropriate for legal, engineering, or surveying purposes.



10700 W. Venture Drive TKN: 705 8989 011



Planning Department (414) 425-4024



NORTH 2017 Aerial Photo

This map shows the approximate relative location of property boundaries but was not prepared by a professional land surveyor. This map is provided for informational purposes only and may not be sufficient or appropriate for legal, engineering, or surveying purposes.

Planning Department
9229 West Loomis Road
Franklin, Wisconsin 53132
Email: generalplanning@franklinwi.gov



Phone: (414) 425-4024 Fax: (414) 427-7691

Web Site: www.franklinwi.gov

Date of Application:

Date: \_\_\_\_\_

### SPECIAL USE / SPECIAL USE AMENDMENT APPLICATION

Complete, accurate and specific information must be entered. Please Print.

Complete, accurate and specific inform	nation must be entered. <u>Please Print.</u>
Applicant (Full Legal Name[s]):	Applicant is Represented by: (contact person)(Full Legal Name[s])
Name: Justin Johnson	Name:
Company: Action PDR, Inc	Company:
Mailing Address: 11102 W. Denis Ave	Mailing Address:
City / State: Hales Corners WI Zip: 53130	City / State: Zip:
Phone: 414-755-9534	Phone:
Email Address: justin@actionpdr.com	Email Address:
Project Property Information:	
Property Address: 10700 W Venture Drive, Suite F	Tax Key Nos: _7050499000
Property Owner(s): Sunset Investors Venture, LLC	
c/o Kendall Breunig	Existing Zoning: M-1
Mailing Address: 10535 W College Ave	Existing Use:
City / State: Franklin WI Zip: 53132	Proposed Use: SIC 1521 Fire and water damage clean up and repair
Email Address: ken@sunsetinvestors.com	Future Land Use Identification: M-1
*The 2025 Comprehensive Master Plan Future Land Use Map is available	
Consid the Considition Amendment of the Consideration	
Special Use/Special Use Amendment submittals for review must include and b	
This Application form accurately completed with original signature(s). Facsi	
	000 Special Use Amendment
	50, New Special Use under 4,000 square feet
Legal Description for the subject property (WORD.doc or compatible format One copy of a response to the General Standards, Special Standards (if ap	
One copy of a response to the General Standards, Special Standards (if ap the Unified Development Ordinance available at <a href="https://www.franklinwi.gov">www.franklinwi.gov</a> .	plicable), and Considerations found in Section 15-3.0701(A), (B), and (C) of
Seven (7) complete <u>collated</u> sets of Application materials to include:	
One (1) original and six (6) copies of a written Project Summary, including	ag description of any naw building construction and site work
interior/exterior building modifications or additions to be made to prope	erty, site improvement costs, estimate of project value and any other
information that is available.)	
Three (3) folded full size, drawn to scale copies (at least 24" x 36") of the	e Site Plan/Site Plan Amendment package. (The submittal should include
only those plans/items as set forth in Section 17-7.0101, 15-7.0301 and	15-5.0402 of the Unified Development Ordinance that are impacted by the
development. (e.g., Site Plan, Building Elevations, Landscape Plan, Outdo Four (4) folded reduced size (11"x17") copies of the Site Plan/Site Plan A	oor Lighting Plan, Natural Resource Protection Plan, etc.)
One colored copy (11"x17") of the building elevations, if applicable.	amendment package.
Three copies of the Natural Resource Protection Plan and report, if applicable	le (see Section 15 4 0102 & 15 7 0201 of the UDO)
Email (or CD ROM) with all plans/submittal materials. Plans must be submitted	
<ul> <li>Upon receipt of a complete submittal, staff review will be conducte</li> <li>Special Use/Special Use Amendment requests require Plan Commis</li> </ul>	
The applicant and property owner(s) hereby certify that: (1) all statements and other	information submitted as part of this application are true and correct to the best
of applicant's and property owner(s)' knowledge; (2) the applicant and property ow	mer(s) has/have read and understand all information in this application; and (3)
the applicant and property owner(s) agree that any approvals based on representations of building and buildin	tions made by them in this Application and its submittal, and any subsequently
issued building permits or other type of permits, may be revoked without notice if execution of this application, the property owner(s) authorize the City of Franklin and	there is a breach of such representation(s) or any condition(s) of approval. By
a.m. and 7:00 p.m. daily for the purpose of inspection while the application is under	review. The property owner(s) grant this authorization even if the property has
been posted against trespassing pursuant to Wis. Stat. §943.13.	remain the property of the top grant this dethicited to even it the property has
(The applicant's signature must be from a Managing Member if the business is an	LLC, or from the President or Vice President if the business is a corporation. A
signed applicant's authorization letter may be provided in lieu of the applicant's	signature below, and a signed property owner's authorization letter may be
provided in lieu of the property of wner's signature[s] below. If more than one, all of	the owners of the property must sign this Application).
Lull mung	Total Indian
Signature - Property Owner BREUNILL MANAGER + OWNER	Signature - Applicant
Name & Title (PRINT)	Justin Johnson, Fresident
Date:	Name & Title (PRINT)  Date: 3/11/19
Signature - Property Owner	Signature - Applicant's Representative
Name & Title (PRINT)	Name & Title (PRINT)

Date: \_\_\_\_\_

#### **Zoning Compliance Application**

#### PROJECT SUMMARY

For: Action PDR, Inc

Date: March 11, 2019

**Location:** 10700 W. Venture Drive

Suite F

Franklin WI 53132

**Action PDR, Inc** is a residential Property Damage Repair contractor that does fire and water damage repairs, primarily for insurance companies.

**New Building Construction:** None, Cost \$0

**Site Work:** None, Cost \$0

**Interior and Exterior modifications**: None, Cost \$0

**Number of Employees**: 3. Could grow by a couple more in the future. Additional subcontractors hired on larger repair projects primarily work at the job site.

**Hours of Operation:** 7am to 6pm weekdays, Saturdays on occasion, and any time when there is emergency repair work being done.

**Size of Suite:** 1,700sf, which consists of 900sf of warehouse, 800sf of second floor office. The shop will be for storing equipment and construction materials.

**Vehicles:** Employee vehicles will be parked outside in front of the building. Vehicles are ¾ ton pick up trucks and cargo vans which are rated as 6,000 pounds. A cube van will be stored at EZ Self Storage next door.

#### DIVISION 15-3.0700 SPECIAL USE STANDARDS AND REGULATIONS

#### SECTION 15-3.0701 GENERAL STANDARDS FOR SPECIAL USES

- **A. General Standards.** No special use permit shall be recommended or granted pursuant to this Ordinance unless the applicant shall establish the following:
- 1. **Ordinance and Comprehensive Master Plan Purposes and Intent.** The proposed use and development will be in harmony with the general and specific purposes for which this Ordinance was enacted and for which the regulations of the zoning district in question were established and with the general purpose and intent of the City of Franklin Comprehensive Master Plan or element thereof.
  - M-1 is the preferred location per the UDO for General and Specialty Contractors. The only other Zoning they are allowed in is Landfill. SIC 1521 is single family housing construction. About 70% of Action PDR's work is on single family, other 30% is on commercial buildings, which would be SIC 1751 which is a Permitted use.
- 2. **No Undue Adverse Impact.** The proposed use and development will not have a substantial or undue adverse or detrimental effect upon or endanger adjacent property, the character of the area, or the public health, safety, morals, comfort, and general welfare and not substantially diminish and impair property values within the community or neighborhood.
  - Use by a Remodeling contractor will not have an undue adverse impact. No outside storage is requested. The building does not abut a residential district. Many other tenants in the building are specialty contractors, which are similar. On site work is mainly storage of equipment inside of their warehouse space.
- 3. **No Interference with Surrounding Development.** The proposed use and development will be constructed, arranged, and operated so as not to dominate the immediate vicinity or to interfere with the use and development of neighboring property in accordance with the applicable zoning district regulations.
  - This is occupancy of an existing office/warehouse suite used prior by an HVAC contractor. It is fenced fron Holz Chevrolet and Kindercare. No outside storage, so it will not interfere in any way.
- 4. **Adequate Public Facilities.** The proposed use and development will be served adequately by essential public facilities and services such as streets, public utilities including public water supply system and sanitary sewer, police and fire protection, refuse disposal, public parks, libraries, schools, and other public facilities and utilities or the applicant will provide adequately for such facilities.

- Adequate Public Facilities exist. This is an existing 30 year old building with all utilities existing already. There is a screened refuse disposal area shared by all the building tenants located behind the building.
- 5. **No Traffic Congestion.** The proposed use and development will not cause undue traffic congestion nor draw significant amounts of traffic through residential streets. Adequate measures will be taken to provide ingress and egress so designed as to minimize traffic congestion in the public streets.
  - This is a low volume traffic business. On very rare occasion a customer might come to the office and there is sufficient parking for customers and employees in the front of the building.
- 6. **No Destruction of Significant Features.** The proposed use and development will not result in the destruction, loss, or damage of any natural, scenic, or historic feature of significant importance.
  - There is no destruction and there is no construction. This is an existing building.
- 7. **Compliance with Standards.** The special use shall, in all other respects, conform to the applicable regulations of the district in which it is located, except as such regulations may, in each instance, be modified by the Common Council pursuant to the recommendations of the Plan Commission. The proposed use and development shall comply with all additional standards imposed on it by the particular provision of this Division and Ordinance authorizing such use.

#### All M-1 Zoning standards are complied with.

**B.** Special Standards for Specified Special Uses. When the zoning district regulations authorize a special use in a particular zoning district and that special use is indicated as having special standards, as set forth in Section 15-3.0702 and 15-3.0703 of this Division, a Special Use Permit for such use in such zoning district shall not be recommended or granted unless the applicant shall establish compliance with all such special standards.

#### None listed.

- **C.** <u>Considerations</u>. In determining whether the applicant's evidence establishes that the foregoing standards have been met, the Plan Commission and the Common Council shall consider the following:
- 1. **Public Benefit**. Whether and to what extent the proposed use and development at the particular location requested is necessary or desirable to provide a service or a facility that is in the interest of the public convenience or that will contribute to the general welfare of the neighborhood or community.

- The majority of Action PDR's work is within 30 miles of their office. So their services will be marketed in Franklin and surrounding areas.
- 2. **Alternative Locations**. Whether and to what extent such public goals can be met by the location of the proposed use and development at some other site or in some other area that may be more appropriate than the proposed site.
  - M-1 is the only zoning a remodeling contractor fits in Franklin. There is very limited M-1 zoning in Franklin.
- 3. **Mitigation of Adverse Impacts**. Whether and to what extent all steps possible have been taken to minimize any adverse effects of the proposed use and development on the immediate vicinity through building design, site design, landscaping, and screening.
  - The office entrance is visible to the public and landscaped. The truck access and overhead door are to the rear and pretty much impossible for the public to see from any street. Other than parking and loading at the garage door, no other activity takes place outside.
- 4. **Establishment of Precedent of Incompatible Uses in the Surrounding Area.** Whether the use will establish a precedent of, or encourage, more intensive or incompatible uses in the surrounding area.
  - Numerous other specialty contractors are approved uses, as well as commercial carpentry contractors, which is very close. Simply changing the customer base to more commercial would make Action PDR and Approved Use. This is the zoning district the UDO pushes this type of contractor to.

#### Legal Description for 10700 W. Venture Drive, Franklin

Parcel 2 of Certified Survey Map No. 4804, being a part of the North West ¼ of the North West ¼ of Section 5, in Township 5 North, Range 21 East in the City of Franklin, County of Milwaukee, State of Wisconsin, being a redivision of parcel nos. 2 and 3 of Certified Survey Map No. 4743, recoded on August 21, 1986, Reel 1942, Image 1197, as Document No. 5953282

10700 W. VENTURE DRIVE OCCUPANCY SCHEDULE			REQUIRED	COMPANY	
	OWNER	TENANT	PARKING	VEHICLES ON-SITE	
Α	KENDALL BREUNIG	LOWER: SUNSHINE PRODUCTS, LLC	4.8	0	
		UPPER: PACKAGING PARTNERS	5.6	0	
В	KENDALL BREUNIG	WE CARE LAWN CARE	3.1	0	
С	KENDALL BREUNIG	LOWER: A2Z BATHROOM REPAIRS	1.7	0	
		UPPER: BADGER ALARM & SECURITY	5.6	0	
D	KENDALL BREUNIG	TIGHTSEAL EXTERIORS	2.6	1	
			3.1	0	
Е	KENDALL BREUNIG	POSS PAINTING	0.9	0	
F	KENDALL BREUNIG	LOWER: FRANKLIN CITY INVESTMENTS LLC	2.6	0	
		UPPER: ACTION PDR, INC	3.6	0	
G	KENDALL BREUNIG	LOWER: SPECIALTY PRODUCTS, INC. 4.8 0			
		UPPER: INTERACTIVE MARKETING PROMOTIO	UPPER: INTERACTIVE MARKETING PROMOTIONS 5.6 0		TOTAL
Н	KENDALL BREUNIG	INTERACTIVE MARKETING PROMOTIONS	6.0	0	51

<b>5</b> 1/1	OTINIO I ANDOGADE GOLIEDIU E	7.05	OOIENITIEIO MANG
EXI	STING LANDSCAPE SCHEDULE	TYPE	SCIENTIFIC NAME
Α	SPREADING JUNIPERS: FULLY DEVELPED HEDGE	SHRUB	JUNIPERUS COMMUNIS
В	NORWAY MAPLE (6" ∅)	SHADE TREE	ACER PLATANOIDES
С	20' COLORADO GREEN SPRUCE	EVERGREEN	PICEA PUNGENS
D	24' DOUG FIR	EVERGREEN	PICEA PUNGENS
Е	15' MULLBERRY (16"Ø)	CANDY TREE	MORUS RUBRA
F	20' MULLBERRY (20"Ø)	CANDY TREE	MORUS RUBRA
G	MUGO PINE	EVERGREEN	PINUS MUGO
Н	BARBERRY	SHRUB	BERBERIS
J	MIYABE MAPLE (STATE STREET MAPLE) (2.5"Ø)	SHADE TREE	ACER MIYABEI
K	MULCH BED w/ (20) STELLA DE ORO DAY LILY	PERENIAL	HOMOCALLIS STELLA DE ORO

### GENERAL NOTES

PARKING

PARKING IS NOT ASSIGNED. IN GENERAL, THE PARKING FOR ANY UNIT IS NEAR THEIR FRONT DOOR, BUT CAN BE ANYWHERE IN THE WEST PARKING LOT.

REAR LOADING AREA:

IS FOR LOADING AND SHORT TERM PARKING ONLY.

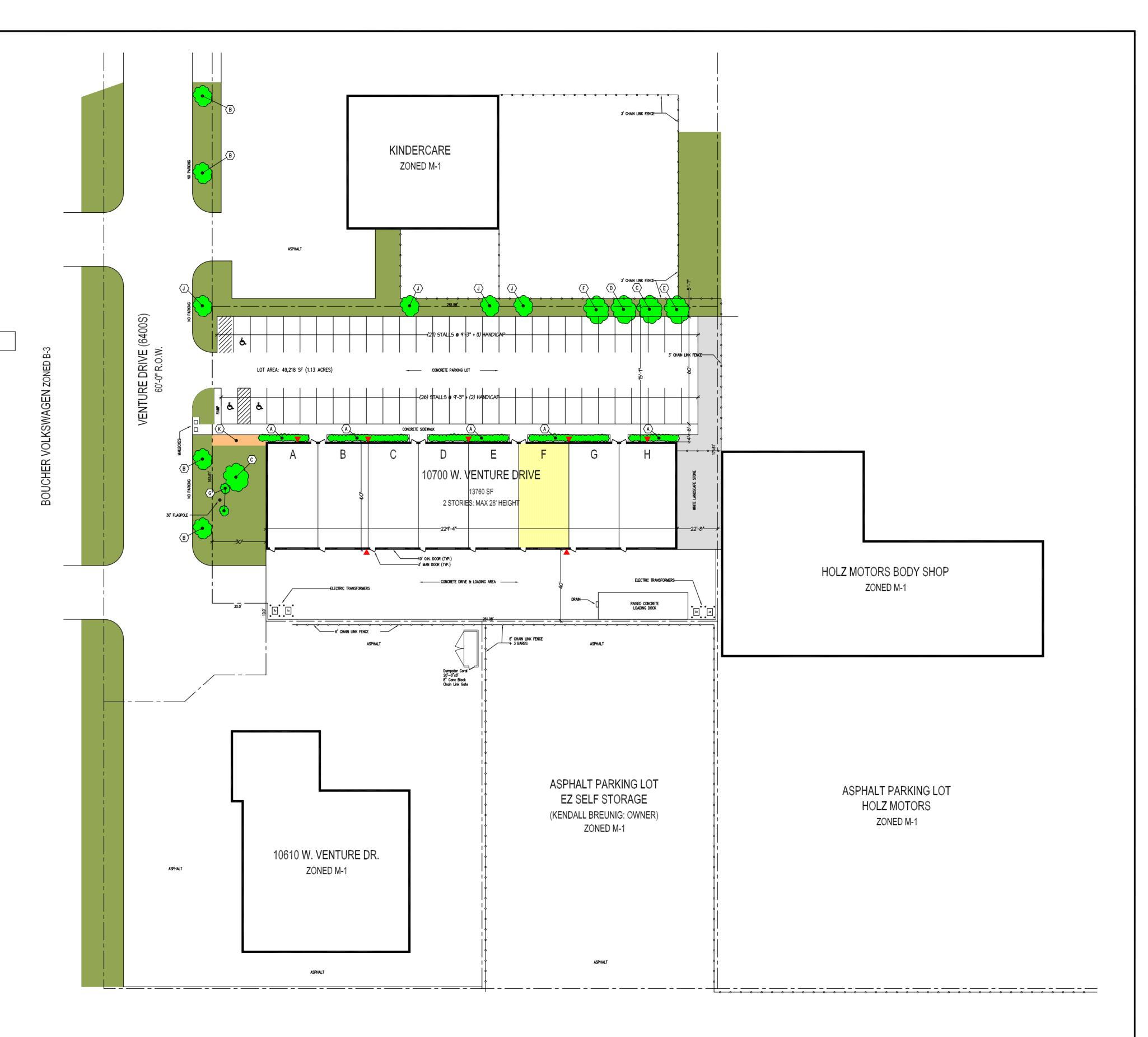
SIGNAG

SIGNAGE IS ALLOWED BY LEASE FOR EACH SPACE ON THE 10' x 20" INTERNALLY LIT SIGNS ON THE FRONT OF EACH SUITE, AND ON THE ENTRANCE DOOR GLASS TO EACH UNIT. THERE ARE 8 SUCH SIGNS ON THE BUILDING, ONE FOR EACH SUITE, AND HAVE BEEN THERE SINCE THE BUILDING WAS CONSTRUCTED IN 1987. LIGHTS ARE ON TIMERS FOR 5pm-11pm.

LIGHTING:

= 70 WATT LED WALL PACK MOUNTED 17' HIGH

SETBACK SCHEDULE	REQUIRED per M-1	PROVIDED
FRONT YARD	30'-0"	75'-7"
REAR YARD	15'-0"	40'-0"
SIDE YARD	20'-0"	22'-8"
CORNERSIDE YARD	30'-0"	30'-0"





SITE and LANDSCAPE PLAN

Scale: 1'' = 30' - 0

SUNS SNNS

Revisions:

Drawn By:

Checked By: -

SITE PLAN

Date: February 13, 2018

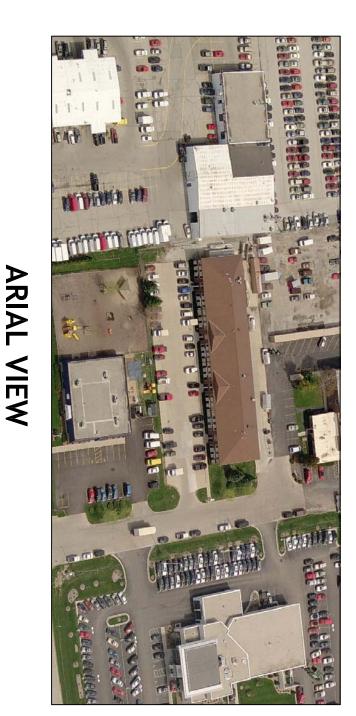
5 W. College Franklin, WI 414-529-8352

Sheet No.

C-100







# **FRONT ENTRY**



# **REAR ELEVA**

APR 8 2008	

APPLICANT:

#### CITY OF FRANKLIN

#### REPORT TO THE PLAN COMMISSION

#### Meeting of June 6, 2019

#### **Special Use**

**RECOMMENDATION:** City Development Staff recommends approval of the proposed Special Use Application, subject to the conditions in the draft resolution.

**Project Name:** United States Cellular Operating Co., LLC

**Project Address:** 5120 W. Ryan Rd.

**Applicant:** Richard Rogers, United States Cellular Operating Co., LLC

Owners (property): 5100 LLC (aka Andy's Gas Station)
Current Zoning: B-3, Community Business District

**Applicant Action Requested:** Recommendation of approval of the Special Use

Application

#### **Introduction:**

On October 1, 2018, the applicant filed a Special Use Application requesting to install a monopole tower at the Andy's Gast Station property located at 5120 West Ryan Road.

This item was re-noticed due to a lack of detail in the notification scheduled to be held at the Plan Commission meeting on May 9, 2019 and per approval from the applicant, was republished and properly noticed to be heard at the June 6, 2019 Plan Commission meeting.

Attached to this report is a Wisconsin Legislative Council Information Memorandum regarding State law related to cell phone transmission towers. This memo outlines the process and submittal requirements for new towers and substantial changes (class 1) and minor changes (class 2) for cell phone transmission towers. The memo also provides a list of items in which the City may not do in consideration of new towers or class 1 or class 2 collocations.

As required by State law, a sworn statement was not received from the applicants indicating the need for additional network capacity near the intersection of Ryan Road and 51<sup>st</sup> Street. Information was provided in a statement preopared by Jeff Banaszek of U.S. Cellular does explain why the site was chosen and why US Cellular did not choos to collocate on a nearby tower. However, the applicant did not supply information regarding colocation possibilities as of the writing of this staff summary, which is a State requirement.

Staff would just note that the nearest towers are located at 8222 S. 51<sup>st</sup> St., approximately 9,000 feet to the north and 5572 W. Airways Avenue, approximately 2,500 feet southwest of the proposed US Cellular site.

#### **Project Description/Analysis:**

The lease area for US Cellular is 50' x 72' (3,600 square feet) and will consist of a concrete pad for current and future equipment and gravel surface. The lease area will include a chain-link fence, the tower, and ground equipment. A gravel turnaround area is also proposed adjacent to the lease area.

The proposed monopole tower is 129-feet in height (125-foot overall height with appurtenances). All equipment is either contained within the proposed fenced in area, on the pole or directly mounted to the pole.

The City Ordinances call for submitting a landscape plan, a natural resource protection plan (or letter from qualified personnel specified in UDO stating no natural resources) and other additional items referenced in Staff Comments sent to the applicants on October 24, 2018. Some of the items have been addressed while others have not been addressed and are outlined in the attached resolution for consideration by the Plan Commission.

#### **Staff Recommendation:**

City Development Staff recommends approval of the proposed cellular tower, subject to the conditions in the draft resolution.

MILWAUKEE COUNTY [Draft 5-30-19]BK

RESOLUTION NO. 2019-\_\_\_\_

A RESOLUTION IMPOSING CONDITIONS AND RESTRICTIONS
FOR THE APPROVAL OF A SPECIAL USE TO ALLOW FOR THE
INSTALLATION OF A 125 FOOT TELECOMMUNICATIONS TOWER
MONOPOLE AT ANDY'S GAS STATION PROPERTY LOCATED AT 5120
WEST RYAN ROAD, BEARING TAX KEY NO. 882-9999-002
(UNITED STATES CELLULAR OPERATING COMPANY LLC, APPLICANT)

WHEREAS, United States Cellular Operating Company LLC having petitioned the City of Franklin for the approval of a Special Use under in part, §15-3.0805 WIRELESS TELECOMMUNICATIONS TOWERS AND ANTENNAS, subs. G. Special Uses, and §15-3.0701 GENERAL STANDARDS FOR SPECIAL USES, of the City of Franklin Unified Development Ordinance, to allow for the installation of a 125 foot telecommunications tower monopole at Andy's gas station. The lease area (approximately 3,600 square feet (which includes a 2,304 square foot fenced compound), located in the northwest corner of the property) will consist of a gravel surface and will include a chain-link fence, the tower and ground equipment, and a 30 foot wide United States Cellular Access and Utility Easement is also proposed leading from S. 51st St., westerly across the existing parking lot area to the lease area located at 5120 West Ryan Road, property zoned B-3 Community Business District, more particularly described as follows:

## UNITED STATES CELLULAR OPERATING COMPANY LLC LEASE PARCEL:

A part of the Southeast Quarter (SE1/4) of the Southwest Quarter (SW1/4) of Section Twenty-Three (23), Township Five (5) North, Range Twenty-One (21) East, City of Franklin, Milwaukee County, Wisconsin containing 3,600 square feet (0.083 acres) of land and being described by: Commencing at the South Quarter Corner of said Section 23; thence N00°-24′-05″W 475.00 feet along the east line of the SW1/4 of said Section 23; thence S88°-22′-14″W 381.43 feet; thence S01°-37′-46″E 20.71 feet to the point of beginning; thence S01°-03′-48″E 50.00 feet; thence S88°-56′-12″W 72.00 feet; thence N00°-23′-52″W 50.00 feet; thence N88°-56′-12″E 72.00 feet to the point of beginning, being subject to any and all easements and restrictions of record.

#### 30' WIDE INGRESS/EGRESS & UTILITY EASEMENT:

A part of the Southeast Quarter (SE1/4) of the Southwest Quarter (SW1/4) of Section Twenty-Three (23), Township Five (5) North, Range Twenty-One (21) East, City of Franklin, Milwaukee County, Wisconsin containing 16,208 square feet (0.372 acres) of land and being Fifteen (15) feet each side of and parallel with the following described line: Commencing at the South Quarter Corner of said Section 23; thence N00°-24′-05″W 455.85 feet along the east

UNITED STATES CELLULAR OPERATING COMPANY LLC – SPECIAL USE RESOLUTION NO. 2019-\_\_\_\_\_Page 2

line of the SW1/4 of said Section 23; thence S88°-22′-14″W 33.04 feet to a point on the west line of S. 51st Street; thence continue S88°-22′-14″W 424.95 feet; thence S00°-23′-52″E 70.00 feet to the point of beginning; thence N88°-56′-12″E 18.31 feet to a point herein after referred to as "Point A"; thence continue N88°-56′-12″E 36.69 feet to the point of termination. Also, beginning at said Point "A"; thence S43°-27′-54″E 50.77 feet; thence S89°-56′-09″E 101.72 feet; thence N00°-03′-51″E 56.98 feet; thence S89°-56′09″E 240.48 feet; thence S54°-08′-19″E 35.32 feet to a point on the West Right of Way line of S. 51st Street and the point of termination. The side lot lines of said easement are to be shortened or lengthened to terminate on the West Right of Way line of S. 51st Street.

#### 10' WIDE UTILITY EASEMENT:

A part of the Southeast Quarter (SE1/4) of the Southwest Quarter (SW1/4) of Section Twenty-Three (23), Township Five (5) North, Range Twenty-One (21) East, City of Franklin, Milwaukee County, Wisconsin containing 8,045 square feet (0.185 acres) of land and being Five (5) feet each side of and parallel with the following described line: Commencing at the South Quarter Corner of said Section 23; thence N00°-24′-05″W 455.85 feet along the east line of the SW1/4 of said Section 23; thence S88°-22′-14″W 33.04 feet to a point on the West Right of Way line of S. 51st Street and the point of beginning; thence continue S88°-22′-14″W 251.78 feet to a point herein after referred to as "Point B"; thence S01°-37′-46″E 19.62 feet to the point of termination. Also, beginning at said "Point B", thence S88°-22′-14″W 173.17 feet; thence S00°-23′-52″E 359.95 feet to a point on the North Right of Way line of W. Ryan Road and the point of termination. The side lot lines of said easement shall be shortened or lengthened to terminate on the North Right of Way line of W. Ryan Road and the West Right of Way line of S. 51st Street.

#### ANDY'S PROPERTY (Tax Key No. 882-9999-002)

Part of the Southeast 1/4 of the Southwest 1/4 of Section 23, Town 5 North, Range 21 East, City of Franklin, Milwaukee County, Wisconsin and being more particularly described as follows: Commencing at the Southeast corner of the Southwest 1/4 of said Section 23; thence North 00°24'05" West along the East line of the Southwest 1/4 of said Section 23, 60.02 feet to a point on the North right-o-way line of West Ryan Road and to the point of beginning; thence continuing North 00°24'05" West along said East line, 414.98 feet; thence South 88°22'46" West, 473.00 feet; thence South 00°24'05" East, 414.98 feet to said North right-of-way line; thence North 88°22'46" East along said right-of-way line, 473.00 feet to the point of beginning and containing

# UNITED STATES CELLULAR OPERATING COMPANY LLC – SPECIAL USE RESOLUTION NO. 2019-\_\_\_\_\_Page 3

4.505 acres (196,241 sq. ft.) of land, more or less, and being subject to all easements and restrictions of record; and

WHEREAS, such petition having been duly referred to the Plan Commission of the City of Franklin for a public hearing, pursuant to the requirements of \$15-3.0805 and \$15-9.0103D. of the Unified Development Ordinance, and a public hearing having been held before the Plan Commission on the 9th day of May, 2019, and the Plan Commission thereafter having determined to recommend that the proposed Special Use be approved, subject to certain conditions, and the Plan Commission further finding that the proposed Special Use upon such conditions, pursuant to \$15-3.0701 of the Unified Development Ordinance, will be in harmony with the purposes of the Unified Development Ordinance and the Comprehensive Master Plan; that it will not have an undue adverse impact upon adjoining property; that it will not interfere with the development of neighboring property; that it will be served adequately by essential public facilities and services; that it will not cause undue traffic congestion; and that it will not result in damage to property of significant importance to nature, history or the like; and

WHEREAS, the Common Council having received such Plan Commission recommendation and also having found that the proposed Special Use, subject to conditions, meets the standards set forth under \$15-3.0805 and \$15-3.0701 of the Unified Development Ordinance; recognizing, that in part, \$15-3.0805 WIRELESS TELECOMMUNICATIONS TOWERS AND ANTENNAS, and \$15-3.0701 GENERAL STANDARDS FOR SPECIAL USES, of the City of Franklin Unified Development Ordinance, include terms and provisions thereof which have been preempted by Wis. Stat. \$ 66.0404 Mobile tower siting regulations, as they pertain to the subject application. Wis. Stat. \$ 66.0404(4) Limitations, provides in part: "[w]ith regard to an activity described... [mobile tower installation], a political subdivision *may not* do any of the following: \*\*\*

- (c) Enact an ordinance prohibiting the placement of a mobile service support structure in particular locations within the political subdivision. \*\*\*
- (g) Disapprove an application to conduct an activity described... [mobile tower installation] based solely on aesthetic concerns. \*\*\*
- (L) Disapprove an application based solely on the height of the mobile service support structure or on whether the structure requires lighting. \*\*\*
- (p) Disapprove an application based on an assessment by the political subdivision of the suitability of other locations for conducting the activity. \*\*\*
- (r) Impose a setback or fall zone requirement for a mobile service support structure that is different from a requirement that is imposed on other types of commercial structures. \*\*\*
- (u) Limit the height of a mobile service support structure to under 200 feet. \*\*\*\*"; and that such terms and provisions which have been preempted have not been applied to the subject application review and approval.

UNITED	STATES C	ELLULAR	<b>OPERATIN</b>	G COMPAN'	Y LLC - SI	PECIAL US	SE
RESOLU	TION NO.	2019					
Page 4							

NOW, THEREFORE, BE IT RESOLVED, by the Mayor and Common Council of the City of Franklin, Wisconsin, that the petition of United States Cellular Operating Company LLC, for the approval of a Special Use for the property particularly described in the preamble to this Resolution, be and the same is hereby approved, subject to the following conditions and restrictions:

- 1. That this Special Use is approved only for the use of the subject property by United States Cellular Operating Company LLC (d/b/a US Cellular), successors and assigns, for the telecommunications tower monopole installation use, which shall be developed in substantial compliance with, and operated and maintained by United States Cellular Operating Company LLC (d/b/a US Cellular), pursuant to those plans City file-stamped March 29, 2019 and annexed hereto and incorporated herein as Exhibit A.
- 2. United States Cellular Operating Company LLC (d/b/a US Cellular), successors and assigns, shall pay to the City of Franklin the amount of all development compliance, inspection and review fees incurred by the City of Franklin, including fees of consults to the City of Franklin, for the United States Cellular Operating Company LLC (d/b/a US Cellular) telecommunications tower monopole installation use, within 30 days of invoice for same. Any violation of this provision shall be a violation of the Unified Development Ordinance, and subject to §15-9.0502 thereof and §1-19. of the Municipal Code, the general penalties and remedies provisions, as amended from time to time.
- 3. The approval granted hereunder is conditional upon the United States Cellular Operating Company LLC (d/b/a US Cellular) telecommunications tower monopole installation use, for the property located as set forth above: (i) being in compliance with all applicable governmental laws, statutes, rules, codes, orders and ordinances; and (ii) obtaining all other governmental approvals, permits, licenses and the like, required for and applicable to the project to be developed and as presented for this approval.
- 4. Applicant shall amend the site plan by placing the width of all right-of-ways and label "ROW" and resubmit for City Development staff approval prior to building permit approval.
- 5. Applicant shall submit a Natural Resource Protection Plan to the City Development staff as required by Section 15-7.0103-Q of the UDO, or a letter from a qualified natural resource specialist meeting UDO criteria stating no natural resources require protection prior to building permit approval.
- 6. Applicant shall submit a landscape plan to the City Development staff for approval

# UNITED STATES CELLULAR OPERATING COMPANY LLC – SPECIAL USE RESOLUTION NO. 2019-\_\_\_\_\_Page 5

per Section 15-7.0103(R) and 15-7.0300 of the UDO prior to building permit approval.

- 7. Applicant shall submit a written project summary for the proposed development per Section 15-7.0103-CC of the UDO to the City Development staff prior to building permit approval.
- 8. Applicant shall amend the site plan by labeling the ultimate right-of-way line on the Site Plan and showing on the site plan the proposed Monopole complies with the minimum setback requirement per Table 15-5.0103 and Section 15-5.0108B and submitting to the City Development staff for approval prior to building permit approval.
- 9. An engineering certification shall be provided to the Department of City Development for review and approval that evaluates the fall zone of the tower related to buildings and parking areas onsite and adjacent buildings and properties, prior to issuance of a Building Permit.
- 10. A structural analysis of the tower, stamped by a Structural Engineer, shall be submitted for Department of City Development review and approval that demonstrates the strength of the pole to support the current equipment proposed as well as demonstrate the feasibility of the planned future collocation as indicated by the applicant, prior to issuance of a Building Permit.
- 11. No fencing onsite shall contain barb wire.
- 12. A gravel surface shall be allowed within the fenced-in area only; any improved areas outside of the fenced-in area shall be paved.
- 13. A Building Permit shall be issued prior to the commencement of any work. All applicable City and State building and electrical codes shall be met.
- 14. Upon the event of the monopole no longer serving the special use as described herein, the applicant shall remove the pole within 90 days.
- 15. Details related to ice shedding and ice throw risk as well as mitigation measures shall be submitted for Department of City Development staff review and approval, prior to the issuance of a Building Permit.
- 16. An erosion control plan shall be submitted for Engineering Department review and approval prior to the issuance of a Building Permit.
- 17. If the monopole collapses for any reason, the applicant shall remove the pole from the site within 12 hours. In cases of emergency where the City must move or relocate a

# UNITED STATES CELLULAR OPERATING COMPANY LLC – SPECIAL USE RESOLUTION NO. 2019-\_\_\_\_\_Page 6

fallen pole, the applicant is responsible for all related costs.

- 18. The applicant shall install, keep and maintain all parts of the system in good and proper operating condition.
- 19. If signage will be proposed, a sign permit will need to be approved by the City prior to installation of the signage.
- 20. The applicant shall maintain and operate the system in full compliance with the laws, statutes, orders, rules and regulations of the Federal Communication Commission, the United States Congress or the State of Wisconsin. [Amended 12-15-1998 by Ord. No. 98-1526]

#### 21. [other conditions, etc.]

BE IT FURTHER RESOLVED, that in the event United States Cellular Operating Company LLC, successors or assigns, or any owner of the subject property, does not comply with one or any of the conditions and restrictions of this Special Use Resolution, following a ten (10) day notice to cure, and failure to comply within such time period, the Common Council, upon notice and hearing, may revoke the Special Use permission granted under this Resolution.

BE IT FURTHER RESOLVED, that any violation of any term, condition or restriction of this Resolution is hereby deemed to be, and therefore shall be, a violation of the Unified Development Ordinance, and pursuant to \$15-9.0502 thereof and \$1-19. of the Municipal Code, the penalty for such violation shall be a forfeiture of no more than \$2,500.00, or such other maximum amount and together with such other costs and terms as may be specified therein from time to time. Each day that such violation continues shall be a separate violation. Failure of the City to enforce any such violation shall not be a waiver of that or any other violation.

BE IT FURTHER RESOLVED, that this Resolution shall be construed to be such UNITED STATES CELLULAR OPERATING COMPANY LLC – SPECIAL USE RESOLUTION NO. 2019-\_\_\_\_\_Page 7

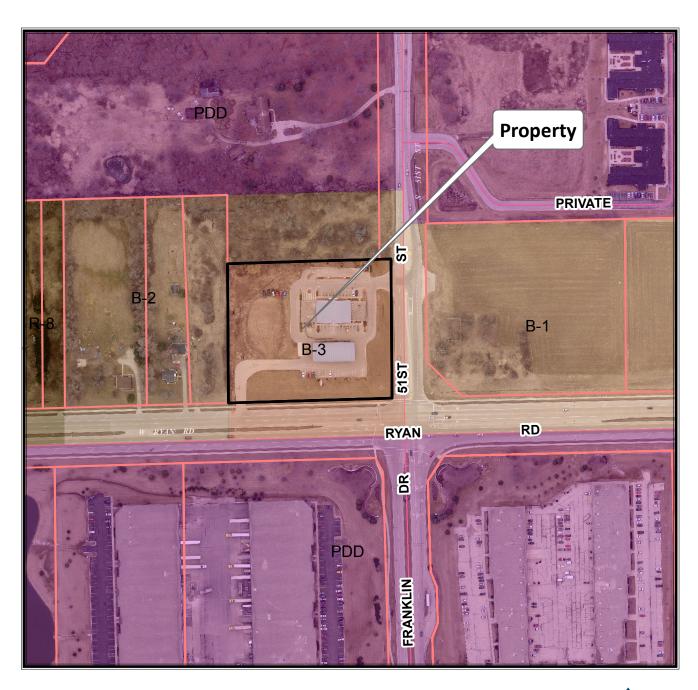
Special Use Permit as is contemplated by §15-9.0103 of the Unified Development Ordinance.

BE IT FURTHER RESOLVED, pursuant to \$15-9.0103G. of the Unified Development Ordinance, that the Special Use permission granted under this Resolution shall be null and void upon the expiration of one year from the date of adoption of this Resolution,

UNITED STATES CELLULAR OPERATING CORESOLUTION NO. 2019	DMPANY LLC – SPECIAL USE
Page 7	
unless the Special Use has been established by wafor such use.	ay of the issuance of an occupancy permit
BE IT FINALLY RESOLVED, that the Cit the recording of a certified copy of this Resolution Milwaukee County, Wisconsin.	•
Introduced at a regular meeting of the Con day of	nmon Council of the City of Franklin this
Passed and adopted at a regular meeting Franklin this day of	
	APPROVED:
- -	Stephen R. Olson, Mayor
ATTEST:	
Sandra L. Wesolowski, City Clerk	
AYES NOES ABSENT	



5120 W. Ryan Road TKN: 882 9999 002



Planning Department (414) 425-4024

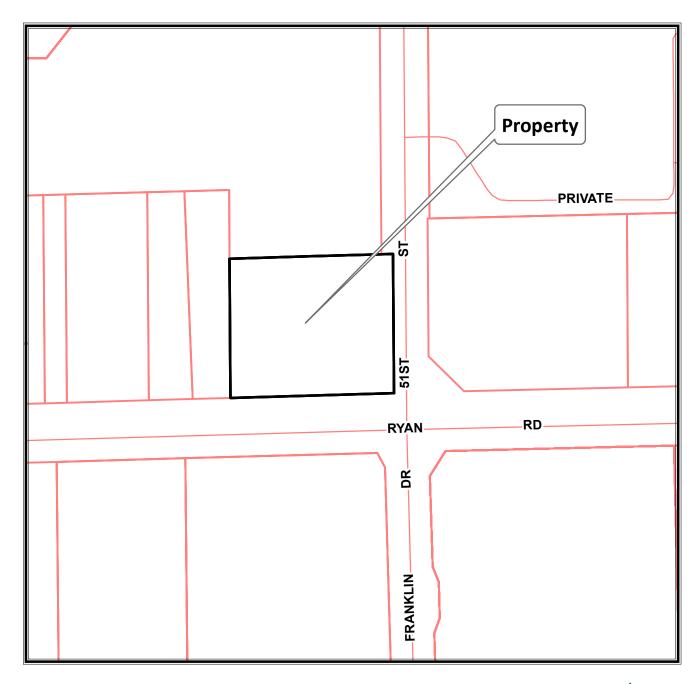


NORTH 2017 Aerial Photo

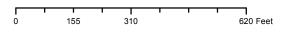
This map shows the approximate relative location of property boundaries but was not prepared by a professional land surveyor. This map is provided for informational purposes only and may not be sufficient or appropriate for legal, engineering, or surveying purposes.



5120 W. Ryan Road TKN: 882 9999 002



Planning Department (414) 425-4024



NORTH 2017 Aerial Photo

This map shows the approximate relative location of property boundaries but was not prepared by a professional land surveyor. This map is provided for informational purposes only and may not be sufficient or appropriate for legal, engineering, or surveying purposes.

## SWORN STATEMENT OF JESSE HERNANDEZ IN SUPPORT OF NEW TOWER CONSTRUCTION PURSUANT TO WIS. STAT §66.0404

- 1. My name is Jesse Hernandez.
- 2. I am a radio frequency engineer employed by United States Cellular Operating Company LLC.
- 3. My job duties include responsibility over the placement of the mobile service support structure being proposed at 5120 W. Ryan Road in the City of Franklin.
- 4. This sworn statement is made pursuant to Wis. Stat. §66.0404(2)(b)6.
- 5. US Cellular has coverage and system capacity problems in the subject area and needs to build a tower to provide enhanced coverage and significantly more capacity to maintain a viable and properly functioning network. There are no existing towers or structures in the area that USCOC can collocate on. There is a monopole tower approximately ½ mile southwest of the proposed location and this tower was evaluated by US Cellular. The tower is at maximum capacity and does not have enough loading to accommodate US Cellular. There are no other tall structures in the area that could accommodate US Cellular's equipment. Consequently, a new tower must be built to address US Cellular's engineering needs.

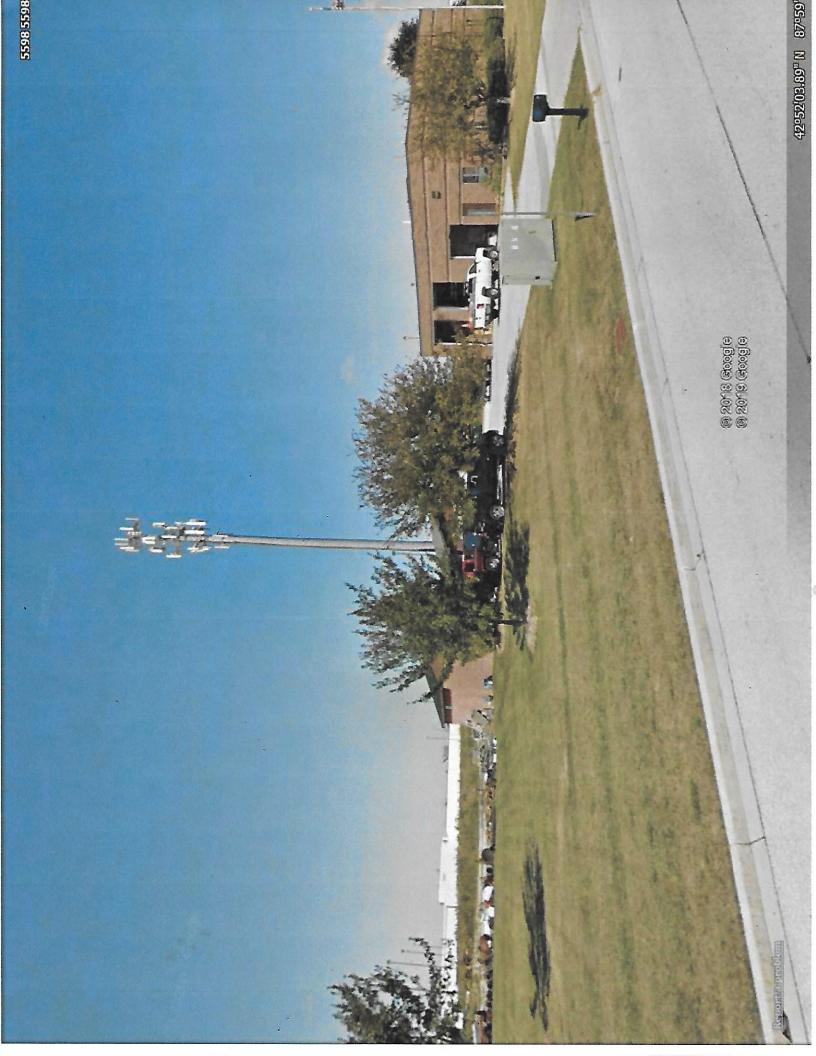
Jesse Hernandez, US Cellular RF Engineer

Witness:

Signed:

Date: 4/28/1

ION NAVARIO







W Ryan Rd

W Ryan Rd



# FRANKLIN INDUSTRIAL PARK (#784700) FRANKLIN, WISCONSIN **CONSTRUCTION DRAWINGS 125' MONOPOLE**

**Edge** 

624 WATER STREET
PRAIRIE DU SAC, WI 53578
608.644.1449 VOICE
608.644.1549 FAX
www.edgeconsult.com



TITLE SHEET FRANKLIN INDUSTRIAL PARK (#784700) FRANKLIN, WISCONSIN

DAVID C. LYSHEK 39472 PRAIRIE DU SAC SSIONAL ENGINE

A DULY LICENSED PROFESSIONAL ENGINEER

TJT 01/29/19 REV. A TJT 02/21/19 REV. B LMK 04/04/19 REV. 0 4/4/2019 18791

INT. DATE: DESCRIPTION:

PERMIT CDs

G-001

SITE LOCATION MAPS	SHEET INDEX	DIRECTORY	PROJECT INFO	SCOPE OF WORK		
SITE LOCATION MAPS  Froemming Park  Whitwaukee County Sports Camples  Whit	SHEET TITLE  G-001 TITLE SHEET  G-002 GENERAL SPECIFICATIONS  G-003 GENERAL SPECIFICATIONS  G-004 GENERAL SPECIFICATIONS  1-3 TOPOGRAPHIC SITE SURVEY *	CLIENT: U.S. CELLULAR - CEDAR RAPIDS 4201 RIVER CENTER CT. NE SUITE 101 CEDAR RAPIDS, IA 52402 CONTACT: KEVIN HAINES PHONE: 319.560.3944  ENGINEERING COMPANY: EDGE CONSULTING ENGINEERS, INC. 624 WATER STREET PRAIRIE DU SAC, WI 53578 PROJECT MANAGER: DAVE LYSHEK PHONE: 608.644.1449 FAX: 608.644.1549	SITE LOCATION: 5120 W. RYAN ROAD FRANKLIN, WI 53132  E911 ADDRESS: TBD  SITE #: 784700  PROPERTY OWNER: ANDY K. KHULLAR 8200 W. BROWN DEER ROAD, SUITE 301 MILWAUKEE, WI 53223  SITE COORDINATES (PER 1-A CERTIFICATE): AT TOWER BASE TBD  PLSS INFORMATION: PART OF 51/4 OF THE SW1/4, SECTION 23, T.5N., R.21E., CITY OF FRANKLIN, MILWAUEE COUNTY WISCONSIN  TAX KEY NUMBER: 882-9999-002	PROJECT DESCRIPTION:  125 MONOPOLE OUTDOOR LTE EQUIPMENT LEASE AREA: 50' x 72'  LOADING TYPE: PLUMBING DIAGRAM #X109 E// B71/B12 / B2/B4  PROPOSED ANTENNAS: (6) LTE PANEL ANTENNAS  PROPOSED RF EQUIPMENT: (2) SURGE PROTECTOR DEVICES (SDP) (6) REMOTE RADIO UNITS (RRU)  PROPOSED CABLING: (1) 1-1/4" POWER CABLE		
SITE LOCATION SUBSTRIP STREET OF THE STREET	A-201 EQUIPMENT PAD ELEVATIONS A-501 EQUIPMENT PAD DETAILS E-101 GROUNDING PLAN E-501 GROUNDING DETAILS			* 1		
Andy & Gas Station	E-502 GROUNDING DETAILS E-503 UTILITY DETAILS E-504 UTILITY RACK DETAILS	UTILITY INFORMATION  ELECTRIC SERVICE PROVIDER: WE ENERGIES	ENGINEER SEAL:	I HEREBY CERTIFY THAT THIS PLAN SET WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION OTHER THAN THE EXCEPTION: NOTED IN THE SHEET INDEX, AND THAT I AM		

FIBER PROVIDER:

PREPARED BY OTHERS

CONTRACTOR SHALL VERIEVALL PLANS AND EXISTING DIMENSIONS/CONDITIONS ON SITE. IMMEDIATELY NOTIFY
ENGINEER OF ANY DISCREPANCIES PRIOR TO PERFORMING

ANY WORK OR BE RESPONSIBLE FOR THE SAME.

TBD

TO OBTAIN LOCATION OF PARTICIPANTS'

UNDERGROUND FACILITIES BEFORE YOU DIG IN WISCONSIN, CALL DIGGERS HOTLINE

TOLL FREE: 1-800-242-8511

FAX A LOCATE: 1-800-242-5811

WI STATUTE 182.0175 (1974) REQUIRES MIN. OF 3 WORK DAYS NOTICE BEFORE YOU EXCAVATE

### **GENERAL REQUIREMENTS**

- . SITE WORK SHALL BE COMPLETED IN ACCORDANCE WITH THESE PLANS AND SPECIFICATIONS (U.S. CELLULAR STANDARD PLANS AND SPECIFICATIONS) AND THE REFERENCED STANDARDS
- A. ALL APPLICABLE LOCAL, STATE AND FEDERAL CODES AND REGULATIONS.
- B. UNIFORM BUILDING CODE (UBC) BUILDING OFFICIALS & CODE ADMINISTRATORS (BOCA) AS APPLICABLE.
- C. AMERICAN CONCRETE INSTITUTE (ACI).
- D. AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM).
- ELECTRONICS INDUSTRIES ASSOCIATION STANDARDS (EIA/TIA-222-F) MOST CURRENT VERSION ADOPTED BY SUBJECT STATE.
- F. OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA)
- WHERE A CONFLICT OCCURS BETWEEN REFERENCED STANDARDS AND U.S. CELLULAR STANDARD PLANS AND SPECIFICATIONS. THE MORE STRINGENT STANDARD SHALL APPLY.
- 3. THE FACILITY IS AN UNOCCUPIED SPECIALIZED MOBILE RADIO FACILITY.
- PLANS ARE NOT TO BE SCALED AND ARE INTENDED TO BE A DIAGRAMMATIC UTLINE ONLY, UNLESS NOTED OTHERWISE THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT, AND LABOR NECESSARY TO COMPLETE ALL INSTALLATIONS AS INDICATED ON THE DRAWINGS.
- PRIOR TO THE SUBMISSIONS OF THE BIDS, THE CONTRACTOR SHALL VISIT THE JOB SITE AND BECOME FAMILIAR WITH THE FIELD CONDITIONS. ANY DISCREPANCIES ARE TO BE BROUGHT TO THE ATTENTION OF THE OWNER'S REPRESENTATIVE.
- . THE CONTRACTOR SHALL RECEIVE IN WRITING, AUTHORIZATION TO PROCEED BEFORE STARTING WORK ON ANY ITEM NOT CLEARLY IDENTIFIED BY THE CONTRACT DOCUMENTS
- . THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY OTHERWISE NOTED.
- 3. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK USING BEST SKILLED PERSONNEL. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES AND FOR COORDINATING ALL PORTIONS OF THE WORK UNDER THE CONTRACT INCLUDING CONTACT AND COORDINATION WITH THE LANDLORDS ALITHORIZED REPRESENTATIVE
- THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS OF THE SITE AND NOTIFY THE OWNER'S REPRESENTATIVE OF ANY DISCREPANCIES BEFORE STARTING ANY WORK.
- 10. WHEN CONTRACTOR'S ACTIVITIES IMPEDE OR OBSTRUCT TRAFFIC FLOW, CONTRACTOR SHALL PROVIDE TRAFFIC CONTROL DEVICES, SIGNS, AND FLAGMEN IN ACCORDANCE WITH PART VI OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AS PUBLISHED BY THE FEDERAL HIGHWAY ADMINISTRATION.
- 11. THE CONTRACTOR SHALL COORDINATE SITE ACCESS AND SECURITY WITH THE PROPERTY OWNER AND U.S. CELLULAR PRIOR TO CONSTRUCTION.
- 12. THE CONTRACTOR SHALL MAKE NECESSARY PROVISIONS TO PROTECT EXISTING IMPROVEMENTS SUCH AS BUT NOT LIMITED TO, PAVING, CURBS, AGRICULTURAL CROPS, DRAIN TILE, FENCES, LANDSCAPING, GALVANIZED SURFACES, ETC. AND UPON COMPLETION OF WORK REPAIR ANY DAMAGE THAT OCCURRED DURING CONSTRUCTION.
- 13. THE LOCATIONS OF UTILITIES SHOWN ON THE PLAN ARE BASED ON EXISTING RECORDS, FIELD LOCATIONS OR OWNER SUPPLIED INFORMATION AND MAY NOT BE ACCURATE. THE CONTRACTOR SHALL MARK ALL PUBLIC & PRIVATE UTILITIES. THE CONTRACTOR SHALL CALL THE LOCAL "ONE CALL" PROVIDER A MINIMUM OF THREE BUSINESS DAYS PRIOR TO EXCAVATING TO ALLOW MEMBER UTILITIES TO LOCATE THEIR FACILITIES. THE PROPERTY OWNER SHALL BE NOTIFIED IN A SIMILAR FASHION TO ALLOW HIM TO LOCATE HIS PRIVATE UTILITIES.
- WHEN EXCAVATING AROUND UTILITIES, THE CONTRACTOR SHALL USE REASONABLE CARE
  IN LOCATING AND PROTECTING UTILITIES. U.S. CELLULAR SHALL BE NOTIFIED IMMEDIATELY
  OF ANY CONFLICTS BETWEEN EXISTING UTILITIES AND PROPOSED CONSTRUCTION.
- 15. DAMAGE TO PUBLIC OR PRIVATE UTILITIES SHALL BE REPORTED TO U.S. CELLULAR AND THE OWNER OF THE UTILITY IMMEDIATELY. ANY DAMAGE RESULTING FROM CONTRACTOR'S NEGLIGENCE OR FAILURE TO ACT WITH DUE REGARD SHALL BE REPAIRED AT CONTRACTOR'S EXPENSE.
- 16. UNLESS OTHERWISE NOTED ON THE PLANS, CONTRACTOR SHALL ASSUME ALL SURFACE FEATURES SUCH AS BUILDINGS, PAVEMENTS, LANDSCAPING FEATURES AND PLANTS ARE TO BE SAVED AND PROTECTED FROM DAMAGE.
- 17. KEEP THE CONSTRUCTION SITE CLEAN, HAZARD FREE, AND DISPOSE OF ALL DIRT, DEBRIS, RUBBISH AND REMOVE EQUIPMENT NOT SPECIFIED AS REMAINING ON THE PROPERTY. LEAVE PREMISES IN CLEAN CONDITION AND FREE FROM PAINT SPOTS, DUST, OR SMUDGES OF ANY NATURE

- 18. THE CONTRACTOR SHALL PROVIDE ON-SITE TRASH RECEPTACLES FOR COLLECTION OF NON-TOXIC DEBRIS. ALL TRASH SHALL BE COLLECTED ON A DAILY BASIS.
- ALL TOXIC AND ENVIRONMENTALLY HAZARDOUS SUBSTANCES SHALL BE USED AND DISPOSED OF IN ACCORDANCE WITH MANUFACTURER SPECIFICATIONS. UNDER NO CIRCUMSTANCES SHALL RINSING OR DUMPING OF THESE SUBSTANCES OCCUR ON-SITE.
- 20. THE CONTRACTOR SHALL MAINTAIN AND SUPPLY U.S. CELLULAR WITH AS-BUILT PLANS UPON COMPLETION OF THE PROJECT.
- MEANS AND METHODS OF CONSTRUCTION INCLUDING, BUT NOT LIMITED TO, THE DESIGN AND PLACEMENT OF FORMS AND SHORING ARE THE RESPONSIBILITY OF THE CONTRACTOR.
- 2. THE GENERAL CONTRACTOR SHALL COORDINATE/ASSIST DIFFERENT TRADE CONTRACTORS IN TERMS OF COORDINATION OF SITE ACCESS
- ALL ARCHITECTURAL, MECHANICAL & ELECTRICAL SYSTEM AND COMPONENTS IN THIS
  FACILITY SHALL BE INSTALLED TO RESIST WIND, ICE AND SNOW FORCES AS PER NATIONAL
  STANDARDS AND BUILDING CODES (LATEST ADOPTED EDITION).
- 24. U.S. CELLULAR WILL OBTAIN NECESSARY PERMITS AND LICENSES FROM THE FEDERAL COMMUNICATIONS COMMISSION (FCC) AND THE FEDERAL AVIATION ADMINISTRATION (FAA). UNLESS OTHERWISE NOTED IN THE PLANS OR SPECIAL PROVISIONS, CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AND PAYING FOR ALL OTHER PERMITS NECESSARY FOR CONSTRUCTION.
- 25. U.S. CELLULAR WILL ORDER AND PAY FOR ANY NECESSARY ELECTRIC AND TELEPHONE UTILITY INSTALLATIONS TO THE POINT OF TERMINATION AS SHOWN ON THE PROJECT PLANS. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION WITH UTILITIES.
- 26. U.S. CELLULAR WILL PROVIDE PRIMARY HORIZONTAL AND VERTICAL CONTROL FOR CONSTRUCTION. CONTRACTOR WILL BE RESPONSIBLE TO CORRECTLY TRANSFER LINE AND GRADE. THE CONTRACTOR SHALL PROVIDE ANY ADDITIONAL STAKING OR RE-STAKING.
- 27. U.S. CELLULAR MAY RETAIN THE SERVICES OF A TESTING LABORATORY TO PERFORM QUALITY ASSURANCE TESTING ON VARIOUS PORTIONS OF THE CONTRACTORS WORK. WHEN REQUESTED, THE CONTRACTOR SHALL INFORM THE TESTING LABORATORY AND ASSIST THEM IN COMPLETING TESTS.
- 28. THE CONTRACTOR SHALL PROVIDE ANY TEMPORARY UTILITIES OR FACILITIES IT DEEMS NECESSARY TO COMPLETE IT'S WORK. THIS INCLUDES, BUT IS NOT LIMITED TO WATER, SEWER, POWER, TELEPHONE, HEAT, LIGHTING OR SECURITY.
- 29. NOTIFY ENGINEER 2 DAYS IN ADVANCE OF INITIATING SITE CONSTRUCTION ACTIVITIES.

### **DEMOLITION**

- PERFORM DEMOLITION AND REMOVAL OF EXISTING MATERIALS OR STRUCTURES AS SHOWN ON THE PLANS AND AS SPECIFIED IN SPECIAL CONDITIONS. PROTECT EXISTING FACILITIES OR STRUCTURES THAT ARE TO REMAIN.
- 2. COMPLETE DEMOLITION IN A SYSTEMATIC MANNER BEGINNING AT THE HIGHEST LEVEL.
- 3. NEATLY SAW OR CUT JOINTS AT THE LIMITS OF REMOVAL; WHENEVER POSSIBLE LOCATE CUTS AT EXISTING JOINTS.
- PATCH AND REPAIR ANY DAMAGED SURFACES OR STRUCTURAL MEMBERS AT THE LIMITS OF REMOVAL.
- REMOVAL DEMOLITION DEBRIS FROM THE SITE ON A REGULAR BASIS. DISPOSE ALL DEBRIS
  OFFSITE IN ACCORDANCE WITH STATE AND LOCAL REGULATIONS. BURNING OF MATERIAL
  SHALL NOT BE ALLOWED UNLESS OTHERWISE NOTED IN THE PLANS OR SPECIAL
  PROVISIONS.

### **CLEARING AND GRUBBING**

- I. REMOVE TREES, STUMPS, SHRUBS, GRASS AND OTHER VEGETATION AS SHOWN ON THE PLANS TO ALLOW FOR CONSTRUCTION OF NEW CELLULAR FACILITIES.
- WHEN POSSIBLE, NEATLY TRIM OR CUT BACK EXISTING TREES OR VEGETATION TO ALLOW FOR CONSTRUCTION OF NEW CELLULAR FACILITIES.
- 3. WHEN CLEARING TREES, PROTECT ALL SURROUNDING STRUCTURES, PAVEMENTS AND LANDSCAPING BY TOPPING, TRIMMING AND USING GUY LINES.
- COMPLETELY REMOVE ALL STUMPS AND ROOTS. STUMPS AND ROOTS MAY BE REMOVED BY GRUBBING, CHIPPING OR GRINDING.
- DISPOSE OF ALL DEBRIS OFFSITE IN ACCORDANCE WITH STATE AND LOCAL REGULATIONS. BURNING OF MATERIAL SHALL NOT BE ALLOWED UNLESS OTHERWISE NOTED IN THE PLANS OR SPECIAL PROVISIONS

### **EARTHWORK**

- REMOVE TOPSOIL FROM BENEATH ALL PROPOSED ROADS, PARKING AREAS, BUILDINGS AND AREAS TO RECEIVE MORE THAN 6" OF FILL. STOCKPILE TOPSOIL FOR USE DURING RESTORATION.
- 2. ALL TREES DESIGNATED TO REMAIN SHALL BE PROTECTED DURING CONSTRUCTION BY A 5 FOOT HIGH TREE BARRIER UTILIZING WIRE FENCING. OR PROTECTIVE SAFETY NETTING.
- 3. GRADE AREAS IN ACCORDANCE WITH ELEVATIONS AND GRADES SHOWN ON THE PLANS OR AS NECESSARY IN GRADING TO PROVIDE DRAINAGE.
- FILL MATERIAL USED IN GRADING OPERATIONS SHALL CONSIST OF EARTH WHICH IS FREE
  OF DEBRIS, BOULDERS OR ORGANIC MATERIAL. FILL SHALL BE PLACED IN 12" LIFTS AND
  COMPACTED TO 90% OF MODIFIED PROCTOR MAXIMUM DRY DENSITY.
- ALL FILL SHALL BE TESTED FOR FIELD DENSITY. TESTS SHALL BE TAKEN IN EACH LIFT OF FILL AT LOCATIONS DESIGNATED BY THE OWNER'S REPRESENTATIVE.
- 6. SELECT GRANULAR FILL SHALL BE USED WHEN FILLING OR BACKFILLING BENEATH AND/OR AROUND ANY STRUCTURES, ROADS OR PARKING AREAS. SELECT FILL SHALL BE PLACED IN 9" LIFTS AND COMPACTED TO 95% OF THE MODIFIED PROCTOR MAXIMUM DRY DENSITY. SELECT GRANULAR FILL SHALL CONSIST OF SAND, GRAVEL OR MIXTURE OF SAND AND GRAVEL FREE OF ORGANIC MATERIAL. THE MATERIAL SHALL HAVE A 2" MAXIMUM SIZE, LESS THAN 10% PASSING NO. 200 SIEVE, A PLASTICITY INDEX OF 6 OR LESS, AND A UNIFORMITY COEFFICIENT OF 5 OR GREATER.
- 7. ALL DISTURBED AREAS SHALL BE RESTORED AS SOON AS POSSIBLE WITH 4" TOPSOIL, SEED, FERTILIZER AND MULCH. GRASS SEED SHALL BE A SUITABLE MIX CONTAINING BOTH ANNUAL AND PERENNIAL VARIETIES OF FESCURE, RYE AND BLUEGRASS. FERTILIZER SHALL CONTAIN A MINIMUM OF 10% EACH OF NITROGEN, PHOSPHORIC ACID AND POTASH. MULCH SHALL BE A STRAW OR HAY MIXTURE FREE OF NOXIOUS WEED SEEDS. APPLY SEED AND FERTILIZER AS RECOMMENDED BY MANUFACTURER. MULCH SHALL BE CRIMPED AFTER APPLICATION.
- 8. THE CONTRACTOR SHALL VERIFY, UPON COMPLETION OF DEVELOPMENT, THE SITE IS PROPERLY STABILIZED AND ALL INDICATED SWALES AND STORMWATER FACILITIES ARE CONSTRUCTED AS INDICATED ON THE PLANS.
- 9. TOWER, TOWER FOUNDATIONS, SLABS, MODULAR BUILDINGS, AND ELECTRICAL AND MECHANICAL FEATURES ARE TO BE DESIGNED AND SPECIFIED BY OTHERS.

### **EROSION CONTROL**

- CONTRACTOR SHALL PROVIDE EROSION CONTROL MEASURES IN ACCORDANCE WITH THE MOST STRINGENT OF: PROJECT PLANS, SPECIAL PROVISIONS, APPLICABLE STATE DEPARTMENT OF NATURAL RESOURCES OR LOCAL ORDINANCES.
- ESTABLISH EROSION CONTROL MEASURES PRIOR TO STARTING CONSTRUCTION AND MAINTAIN THROUGHOUT CONSTRUCTION. INSPECT EROSION CONTROL MEASURES FOLLOWING EACH RAINFALL EVENT AND REPAIR AS NECESSARY.
- 3. SEDIMENTATION CONTROL SHALL BE ACCOMPLISHED DURING CONSTRUCTION THROUGH THE USE OF SILT FENCING PLACED AS SHOWN ON THE ATTACHED PLAN. THE CONTROL DEVICES SHALL BE SET AT THE ONSET OF SITE GRADING TO PREVENT SILTING OF THE EXISTING STORMWATER FACILITIES.

### **ROAD AND PARKING AREA CONSTRUCTION**

- PREPARE SUBGRADE FOR ROADS AND PARKING AREAS IN ACCORDANCE WITH "EARTHWORK" SECTION.
- PROOF ROLL ROAD TO IDENTIFY UNSUITABLE MATERIALS. EXCAVATE UNSUITABLE MATERIAL AND DISPOSE OFFSITE. BACKFILL UNDERCUT EXCAVATION USING 3" BREAKER RUN MATERIAL. BREAKER RUN MATERIAL SHALL BE CRUSHED STONE MEETING THE FOLLOWING GRADATION:

3. PLACE CRUSHED AGGREGATE BASE COURSE IN MAXIMUM OF 6" THICK LIFTS IN ACCORDANCE WITH DETAIL DRAWINGS. MOISTURE CONDITION BASE COURSE AS NECESSARY TO ACHIEVE COMPACTION. BASE COURSE SHALL BE COMPACTED TO 95% OF THE MODIFIED PROCTOR MAXIMUM DRY DENSITY. BASE COURSE MATERIAL SHALL MEET THE FOLLOWING REQUIREMENTS:

3" BASE COURSE SIEVE SIZE % WEIGHT PASSING 2-1/2" 25-60 3/8" 0-5 1-1/2" BASE COURSE 1-1/2' 70-100 3/4' 55-95 3/8" 30-65 25-55 #200 0-10

- PLACE BASE COURSE WITH CROWN OR UNIFORM SLOPE AS NECESSARY TO PROVIDE DRAINAGE FROM THE SITE.
- GEOTEXTILE FABRIC SHALL BE USED IN THE EVENT OF UNSTABLE SOIL CONDITIONS. VERIFICATION OF SUCH CONDITIONS IS THE RESPONSIBILITY OF THE CONTRACTOR.

Consulting Engineers, Inc. 624 WATER STREET
PRAIRIE DU SAC, WI 53878
608.644.1449 VOICE
608.644.1549 FAX

LIENT:



U.S. CELLULAR - CEDAR RAPIDS 1201 RIVER CENTER CT. NE SUITE 1 CEDAR RAPIDS, IA 52402 PHONE: 319.560.3944

GENERAL SPECIFICATIONS
FRANKLIN INDUSTRIAL PARK (#784700)
FRANKLIN, WISCONSIN

SHEET TITLE:

| SUBMITTAL: | INT. | DATE: | DESCRIPTION: | TJT | 01/29/19 | REV. A | TJT | 02/21/19 | REV. B | LMK | 04/04/19 | REV. 0 | CHECKED | DL | PLOT | A44/0440 | PLOT | PLOT | A44/0440 | PLOT | PLOT | A44/0440 | PLOT | PLO

PLOT DATE 18791

PROJECT 18791

SET TYPE PERMIT CDS

G-002

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### **CONCRETE AND STEEL REINFORCEMENT**

- CONCRETE SHALL BE MIXED AND DELIVERED IN ACCORDANCE WITH ASTM C94. CONCRETE SHALL BE 6 BAG MIX HAVING A 28 DAY COMPRESSIVE STRENGTH OF 4000 PSI, MAXIMUM AGGREGATE SIZE OF 1", MAXIMUM WATER CEMENT RATIO OF 0.45, AIR ENTRAINMENT OF 6% +/- 1%, AND SLUMP OF 3" +/- 1". DEVIATIONS FROM THE MIX MUST BE APPROVED BY U.S.
- CONCRETE CONSTRUCTION SHALL BE COMPLETED IN ACCORDANCE WITH THE MOST STRINGENT OF: PROJECT PLANS, SPECIAL PROVISIONS, OR THE AMERICAN CONCRETE INSTITUTE (ACI) PUBLICATIONS. CONCRETE WORK FOR TOWER FOUNDATIONS SHALL BE COMPLETED IN ACCORDANCE WITH PLANS AND SPECIFICATIONS PROVIDED BY THE TOWER
- FORM MATERIALS WILL COMPLY WITH ACI 301. PLYWOOD FORMS SHALL BE APA B-B PLYFORM CLASS I SOUND SHEETS. LUMBER SHALL BE SPRUCE-PINE-FIR SPECIES #2 OR BETTER GRADE. TUBULAR COLUMN FORMS MAY BE SPIRALLY WOUND LAMINATED FIBER MATERIAL. FORM TIES SHALL BE REMOVABLE OR SNAP-OFF METAL TYPE.
- CONCRETE SHALL BE MADE OF CEMENT MEETING THE REQUIREMENTS OF ASTM C150, NORMAL, TYPE I PORTLAND. FINE AND COARSE AGGREGATES FOR CONCRETE SHALL MEET THE REQUIREMENTS OF ASTM C33.
- PLACE, SUPPORT AND SECURE REINFORCEMENT STEEL AT LOCATIONS SHOWN ON PLANS. REINFORCING STEEL SHALL BE PLACED IN ACCORDANCE WITH ACI 315. REBAR YIELD STRENGTH = 60,000 PSI.
- AIR ENTRAINING ADMIXTURES SHALL MEET THE REQUIREMENTS OF ASTM C260; WATER REDUCING ADMIXTURES SHALL MEET THE REQUIREMENTS OF ASTM C494, TYPE A. ALL OTHER ADMIXTURES ARE PROHIBITED WITHOUT PRIOR APPROVAL BY U.S. CELLULAR.
- VAPOR BARRIER SHALL BE 6 MIL THICK POLYETHYLENE, MEETING THE REQUIREMENTS OF ASTM D2103.
- CURING COMPOUND SHALL MEET THE REQUIREMENTS OF ASTM C309.
- WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185.
- ALL CONSTRUCTION AND EXPANSION JOINTS SHALL BE INSTALLED PER THE DRAWINGS. 10
- ALL EXPOSED CORNERS OF CONCRETE WORK SHALL BE CHAMFERED 3/4 " UNLESS NOTED 11.
- PLACE, SUPPORT AND SECURE REINFORCEMENT STEEL AT LOCATIONS SHOWN ON PLANS. REINFORCING STEEL SHALL BE PLACED IN ACCORDANCE WITH ACI 315.
- 13. ALL FORM WORK SHALL BE RIGID, TIGHT, LEVEL, PLUMB AND SUFFICIENTLY SHORED TO RESIST CONSTRUCTION LOAD CONDITIONS. COAT FORMS WITH RELEASE AGENT PRIOR TO
- PREPARE SUBGRADE FOR CONCRETE IN ACCORDANCE WITH PROJECT PLANS AND SPECIAL PROVISION. DO NOT PLACE CONCRETE ON FROZEN SUBGRADE
- PROVIDE U.S. CELLULAR A MINIMUM OF 48 HRS. NOTICE PRIOR TO PLACING CONCRETE TO 15. ALLOW FOR INSPECTION AND SCHEDULING OF TESTING.
- LITHIZE CHUTES TROUGHS OR CONVEYORS TO PLACE CONCRETE SO THAT HANDLING OF 16. CONCRETE IS MINIMIZED. AVOID SEGREGATION OF THE AGGREGATE AND DISTURBING
- UNIFORMLY CONSOLIDATE CONCRETE USING HAND TOOLS OR MECHANICAL VIBRATORS. THOROUGHLY CONSOLIDATE EACH LAYER PRIOR TO PLACING SUBSEQUENT LAYERS.
- WHEN PLACING OPERATIONS ARE TEMPORARILY SUSPENDED, THE UNFINISHED FACE OF THE POUR SHALL BE COVERED WITH WET BURLAP UNTIL PLACING OPERATIONS ARE RESUMED. WHEN PLACING OPERATIONS ARE SUSPENDED FOR MORE THAN 30 MINUTES. PROVIDE AN BONDING AGENT TO CONSTRUCTION JOINT.
- TROWEL FINISH SURFACES UNLESS OTHERWISE DIRECTED ON THE PLANS.
- AFTER FINAL FINISHING, PROVIDE POLYETHYLENE VAPOR BARRIER OR CURING COMPOUND TO MAINTAIN MOISTURE AND TEMPERATURE OF CONCRETE.
- IN EXTREME WEATHER PLACE AND CURE CONCRETE IN ACCORDANCE WITH EITHER ACI 306R-89 FOR COLD WEATHER OR ACI 305R-89 FOR HOT WEATHER.
- WELDING OF REINFORCING STEEL IS PROHIBITED
- REMOVE FORMS IN A MANNER THAT DOES NOT DAMAGE THE CONCRETE. FILL AND PATCH 23. POCKETS OR HOLES ON EXPOSED SURFACES USING MORTAR MIXTURE.
- PROVIDE TEST CYLINDERS AS FOLLOWS:

A. EQUIPMENT ENCLOSURE

- 1 CYLINDER AT 7 DAYS.
- 1 CYLINDER AT 14 DAYS 2 CYLINDERS AT 28 DAYS.
- NOTIFY ENGINEER 48 HOURS IN ADVANCE OF TOWER FOUNDATION INSTALLATION.
- REFER TO TOWER MANUFACTURER SPECIFICATIONS REGARDING FOUNDATION 26.

### **CHAINLINK FENCING**

- 1.1 THIS SECTION COVERS THE REQUIREMENTS FOR THE MATERIALS AND THE CONSTRUCTION OF SITE FENCING, SEE SITE PLAN AND DRAWINGS FOR DETAILS.
- 2.0 SPECIAL REQUIREMENTS:
- ALL WIRE, FABRIC, FITTINGS, HARDWARE AND STEEL MEMBERS USED FOR SITE AREA 2.1 FENCING SHALL BE HOT DIPPED GALVANIZED (ASTM A153) OR OTHER APPROVED NON CORROSIVE MATERIAL AND CONFORM TO FEDERAL SPEC RR-F-191G (1-25-74).
- 2.2 ALL NON-CORROSIVE MATERIAL SHALL BE PRE-APPROVED BY THE PROJECT MANAGER.
- ANY DAMAGE TO GALVANIZING OR NON-CORROSIVE COATING DURING CONSTRUCTION SHALL BE REPAIRED ACCORDING TO MANUFACTURER'S RECOMMENDED METHODS.
- 3.0 GATE:
- 3.1 LOCATION OF GATE SHALL CONFORM TO THE SITE PLAN.
- ALL JOINTS BETWEEN TUBULAR GATE MEMBERS SHALL BE WELDED OR HEAVY FITTINGS 3.2 PROVIDING RIGID AND WATERTIGHT CONNECTIONS.
- 3.3 GATE HINGES SHALL PROVIDE FOR 180 DEGREE RADIUS GATE SWING, ALL HINGE NUTS SHALL BE ON THE INSIDE AND DOUBLE-NUT TO DETER UNAUTHORIZED ENTRY.
- BARBED WIRE GUARD SHALL BE INSTALLED ON TOP OF GATES. ADEQUATE CLEARANCE SHALL BE MAINTAINED TO ALLOW GATE OPERATION.
- 3.5 GATE SHALL BE INSTALLED PLUMB AND SHALL OPEN AND CLOSE FREELY.
- 3.6 GATE POSTS SHALL NOT BE SHARED AS A CORNER POST.
- 4.0 FENCE POSTS:
- LOCATION OF CORNER POSTS SHALL BE DETERMINED FROM STAKES AND PROPERTY PINS INSTALLED BY THE REGISTERED LAND SURVEYOR UNDER CONTRACT FOR THE PROJECT. IF THE STAKES ARE NOT PRESENT OR DO NOT CONFORM TO THE SITE PLAN, CONSULT WITH
- 4.2 CORNER POSTS SHALL BE SET WITHIN ONE INCH (1") OF DIMENSIONS INDICATED ON THE
- 4.3 FENCE POSTS SHALL BE VERTICALLY PLUMB IN ALL PLANES WITHIN 1/2 INCH (1/2").
- LINE POSTS BETWEEN CORNER AND GATE POSTS SHALL BE EQUALLY SPACED WITH A TEN FOOT (10') MAXIMUM SPACING. GATE POST LOCATIONS SHALL BE IN ACCORDANCE WITH SITE PLAN AND SHALL BE VERIFIED WITH THE PROJECT MANAGER.
- 4.5 ALL FOUR CORNERS POSTS AND BOTH GATE POSTS SHALL BE CONNECTED TO THE SITE GROUNDING SYSTEM (REFER TO GROUNDING SYSTEM STANDARD)
- FENCE POST OUTSIDE DIAMETER (O.D.) ARE MINIMUM SPECIFICATIONS. LARGER SIZES MAY BE SUBSTITUTED WITH APPROVAL FROM PROJECT MANAGER.
- 5.0 FABRIC
- FABRIC SHALL BE TENSIONED PER MANUFACTURER'S RECOMMENDATIONS TO PRESENT A
- FABRIC SHALL BE SECURED AT CORNER AND GATE POSTS USING STRETCHER BARS AND
- 5.3 FABRIC SHALL BE SECURED TO THE TOP RAIL AND BRACE RODS USING TIE CLIPS.





U.S. CELLULAR - CEDAR RAPIDS 4201 RIVER CENTER CT. NE SUITE 1 CEDAR RAPIDS, IA 52402 PHONE: 319.560.3944

RANKLIN INDUSTRIAL PARK (#784700) FRANKLIN, WISCONSIN **CIFICATIONS** S Z

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NT. DATE: DESCRIPTION: TJT 01/29/19 REV. A 02/21/19 REV. B LMK 04/04/19 REV. 0

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G-003 C EDGE CONSULTING ENGINEERS. INC

### **ELECTRICAL NOTES**

### 1.0 GENERAL

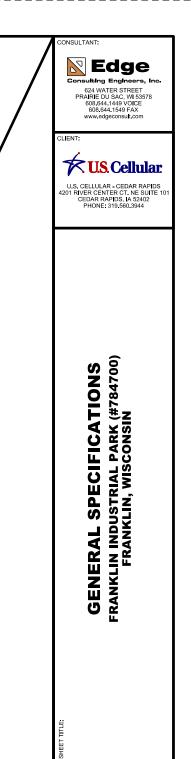
- I.1 CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS, INSURANCE, EQUIPMENT, INSTALLATION, CONSTRUCTION TOOLS, TRANSPORTATION, ETC. FOR A COMPLETE AND PROPERLY OPERATING SYSTEM ENERGIZED THROUGHOUT AS INDICATED ON DRAWINGS, AS SPECIFIED HEREIN AND/OR AS OTHERWISE REQUIRED.
- 1.2 CONTRACTOR IS TO COORDINATE WITH UTILITY COMPANY FOR CONNECTION OF PERMANENT POWER TO THE SITE.
- 1.3 CONTRACTOR SHALL OBTAIN ALL NECESSARY BUILDING PERMITS, INSPECTIONS AND APPROVALS, AND PAY ALL REQUIRED FEES PURSUANT TO THE WORK.
- 1.4 ALL WORK SHALL BE IN STRICT ACCORDANCE WITH THE LATEST VERSION OF THE NATIONAL ELECTRICAL CODE AND ANY APPLICABLE NATIONAL, STATE AND LOCAL CODES. ALL COMPONENTS SHALL BE ILL APPROVED.
- 1.5 CONTRACTOR SHALL BEFORE SUBMITTING HIS BID, VISIT THE SITE OF THE PROJECT AND BECOME FAMILIAR WITH THE CONDITIONS. NO ALLOWANCE WILL BE MADE FOR EXISTING CONDITIONS OR FAILURE OF THE CONTRACTOR TO OBSERVE THEM.
- 1.6 EXACT LOCATION OF ALL EQUIPMENT SHALL BE COORDINATED WITH OWNER AND OTHER TRADES.
- 1.7 CONTRACTOR SHALL PROVIDE ALL VERIFICATION OBSERVATION TESTS AND EXAMINE ALL WORK PRIOR TO ORDERING THE ELECTRICAL EQUIPMENT AND THE ACTUAL CONSTRUCTION, CONTRACTOR SHALL ISSUE A WRITTEN NOTICE OF ALL FINDINGS TO THE ARCHITECT/ENGINEER LISTING ALL MALFUNCTIONS, FAULTY EQUIPMENT AND DISCREPANCIES
- 1.8 ALL MATERIALS AND EQUIPMENT SHALL BE NEW AND IN SAFE CONDITION WHEN INSTALLED AND SHALL BE OF THE BEST GRADE AND OF THE SAME MANUFACTURER THROUGHOUT FOR EACH CLASS OR GROUP OF EQUIPMENT (SEE NOTE 1.7 FOR EXCEPTIONS). MATERIALS SHALL MEET WITH APPROVAL OF THE DIVISION OF INDUSTRIAL SAFETY AND ALL GOVERNING BODIES HAVING JURISDICTION. MATERIALS SHALL BE MANUFACTURED IN ACCORDANCE WITH APPLICABLE STANDARDS ESTABLISHED BY ANSI, NEMA, NBFU AND "UL" LISTED.
- 1.9 WHERE EQUIPMENT IS SPECIFIED BY MANUFACTURER AND TYPE, SUBSTITUTION SHALL ONLY BE MADE WITH THE APPROVAL OF THE ENGINEER. THE CONTRACTOR SHALL SUBMIT DETAILS OF PROPOSED MATERIALS, REASON FOR CHANGE AND CHANGE IN CONTRACT AMOUNT.
- 1.10 EACH CONDUCTOR OF EVERY SYSTEM SHALL BE PERMANENTLY LABELED WITH ENGRAVED PLASTIC LABELS FOR EACH PANELBOARD, PULL BOX, J-BOX, SWITCH BOX, ETC. IN COMPLIANCE WITH OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA)
- 1.11 THESE PLANS ARE DIAGRAMMATIC ONLY AND ARE TO BE FOLLOWED AS CLOSELY AS POSSIBLE
- 1.12 THE TEMPERATURE RATING ASSOCIATED WITH THE AMPACITY OF A CONDUCTOR SHALL BE SO SELECTED AND COORDINATED AS TO NOT EXCEED THE LOWEST TEMPERATURE RATING OF ANY CONNECTED TERMINATION, CONDUCTOR, OR DEVICE.
- 1.13 ALL ENCLOSURES CONTAINING THE SERVICE CONDUCTORS-SERVICE RACEWAY, CABLE ARMOR, BOXES, FITTINGS, CABINETS MUST BE EFFECTIVELY BONDED TOGETHER.
- 1.14 ALL UNDERGROUND CONDUIT SHALL BE PVC SCHEDULE 40 UNLESS OTHERWISE SPECIFIED, WITH UV PROTECTION (UNLESS NOTED OTHERWISE) AT A MINIMUM DEPTH SPECIFIED BY NATIONAL STATE AND LOCAL CODDES, IT IS REQUIRED AND WILL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR TO NOTIFY THE DIGGER HOTLINE OR OTHER SUCH NOTIFYING AGENCY PRIOR TO THE START OF DIGGING, TRENCHING, EXCAVATION, OR OTHER SUCH EARTH REMOVAL; SEE G-001 FOR NOTIFICATION REQUIREMENTS.
- 1.15 THE UNDERGROUND SERVICE ENTRANCE WORK MUST BE CONSTRUCTED ACCORDING TO THE LOCAL BUILDING CODE, NEC & UTILITY STANDARDS. THE ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE ELECTRICAL UTILITY BEFORE QUOTING AND DURING THE CONSTRUCTION

### **ELECTRICAL NOTES (CONTINUED)**

- 2.0 MATERIALS, ELECTRICAL WIRING AND RACEWAYS
- 2.1 ALL CIRCUIT BREAKERS, FUSES, CONDUCTORS AND ELECTRICAL EQUIPMENT SHALL HAVE AN INTERRUPTING SHORT CIRCUIT TO WHICH THEY MAY BE SUBJECTED AND A MINIMUM OF 10,000 AIC RATING UNLESS SPECIFIED OTHERWISE.
- 2.2 PLASTIC PLATES FOR ALL SWITCHES, RECEPTACLES, TELEPHONE AND BLANKED OUTLETS SHALL HAVE ENGRAVED LETTERING WHERE INDICATED ON THE DRAWINGS. WEATHERPROOF RECEPTACLES SHALL HAVE SIERRA "WPD 8" LIFT COVER PLATES.
- 2.3 METER SOCKET AMPERAGE, VOLTAGE AND NUMBER OF PHASES SHALL BE AS NOTED ON THE DRAWINGS AND MANUFACTURED BY SQUARE "D" COMPANY OR AN APPROVED EQUAL.
- 2.4 INSTALLATION OF RIGID METAL CONDUIT SHALL COMPLY WITH THE APPLICABLE PROVISIONS OF ARTICLES 300 & 346-NEC. SHALL BE UL APPROVED.
- 2.5 INSTALLATION OF ELECTRICAL METALLIC TUBING (EMT) SHALL COMPLY WITH THE APPLICABLE PROVISIONS OF ARTICLES 300 & 348-NEC. SHALL BE U.L. APPROVED.
- 2.6 INSTALLATION OF INTERMEDIATE METAL CONDUIT (IMC) SHALL COMPLY WITH THE APPLICABLE PROVISIONS OF ARTICLES 300 & 348-NEC. SHALL BE UL APPROVED.
- 2.7 PLASTIC CONDUIT SHALL BE SCHEDULE 40, HIGH IMPACT, POLYVINYL CHLORIDE AND SHALL BE USED WITH UNTHREADED SOLVENT CEMENT PLASTIC CONDUIT FITTINGS. COUPLINGS SHALL HAVE A CENTER STOP TO TYPE ENSURE PROPER SEATING. CONDUIT SHALL BE MANUFACTURED BY CARLON OR ACCEPTABLE EQUAL SHALL BE IN COMPLIANCE WITH ART 300 & 347-NEC, UL APPROVED.
- 2.8 ALL WIRING OF ALL KINDS MUST BE INSTALLED IN CONDUIT, UNLESS OTHERWISE NOTED OR APPROVED BY THE ELECTRICAL ENGINEER.
- 2.9 ALL WIRING SHALL BE IN ACCORDANCE WITH THE (NEC) NATIONAL ELECTRICAL CODE OR AS INDICATED ON PLANS
- 2.10 RACEWAYS SHALL BE STEEL GALVANIZED AND/OR PAINTED, WITH SIZE AS SPECIFIED AND IN ACCORDANCE WITH THE (NEC) NATIONAL ELECTRICAL CODE UNLESS OTHERWISE NOTED ON PLANS. ALL RACEWAYS SHALL BE APPROVED PRIOR TO INSTALLATION.
- 2.11 JUNCTION BOXES OR PULL BOXES SHALL MEET (NEC) NATIONAL ELECTRICAL CODE STANDARDS AND AS APPROVED FOR INSTALLATION OF RACEWAYS AND WIRING.
- 2.12 THE RACEWAY AND WIRING INSTALLATION SHALL BE GROUNDED PERMANENTLY AND EFFECTIVELY IN ACCORDANCE WITH ARTICLE 250 OF THE (NEC) NATIONAL ELECTRICAL CODE
- 2.13 THE CONTRACTOR SHALL BE AWARE THAT ALL STATE AND LOCAL CODES SHALL APPLY TO THIS INSTALLATION AND MUST BE ADHERED TO.

### 3.0 SCOPE OF WORK

- 3.1 THE CONTRACTOR SHALL PROVIDE ALL ELECTRICAL WIRING AND EQUIPMENT UNLESS OTHERWISE INDICATED, MAIN COMPONENTS ARE AS FOLLOWS:
  - A. PROVIDE ELECTRICAL SERVICE AS INDICATED ON THE DRAWINGS.
    B. PROVIDE FIBER CONDUIT WITH PULL WIRE AS INDICATED HEREIN AND ON
    - C. COORDINATE ELECTRICAL SERVICE WITH LOCAL POWER COMPANY.
  - E. COORDINATE FIBER SERVICE WITH LOCAL FIBER COMPANY.
    F. INSTALL WIRE AND CONDUIT AS INDICATED. PROVIDE CABLE SUPPORTS AS INDICATED.
    - G. PROVIDE GROUNDING AS INDICATED.
- 3.2 ONE SET OF COMPLETE ELECTRICAL "AS INSTALLED" OR "AS-BUILT" DRAWINGS AT THE COMPLETION OF THE JOB SHOWING ACTUAL DIMENSIONS, ROUTINGS AND CIRCUITS SHALL BE PROVIDED TO CLIENT. ALL BROCHURES, OPERATING MANUALS, CATALOGS, SHOP DRAWINGS, ETC. SHALL BE TURNED OVER TO CLIENT AT JOB COMPLETION.
- 3.3 PATCH, REPAIR AND PAINT ANY AREA THAT HAS BEEN DAMAGED IN THE COURSE OF
- 3.4 UPON COMPLETION OF WORK, CONDUIT CONTINUITY, SHORT CIRCUIT, AND GROUNDING FALL POTENTIAL TEST WILL BE MADE FOR APPROVAL. SUBMIT TEST REPORTS TO CLIENT. CLEAN PREMISES OF ALL DEBRIS RESULTING FROM WORK AND LEAVE IN A COMPLETE AND UNDAMAGED CONDITION.
- 3.5 THE COMPLETE JOB SHALL BE GUARANTEED FOR A PERIOD OF ONE (1) YEAR AFTER THE DATE OF SITE ACCEPTANCE BY CLIENT. ANY WORK MATERIAL OR EQUIPMENT FOUND TO BE FAULTY DURING THAT PERIOD SHALL BE CORRECTED AT ONCE, UPON WRITTEN NOTIFICATION, AND AT THE EXPENSE OF THE CONTRACTOR.
- 3.6 THE ELECTRICAL CONTRACTOR SHALL VERIFY THE ELECTRICAL EQUIPMENT PROVIDED BY



\*INTENTIONALLY

SPACE,

THIS

SUBMITTAL:

INT. DATE: DESCRIPTION:

TJT 01/29/19 REV. A

TJT 02/21/19 REV. B

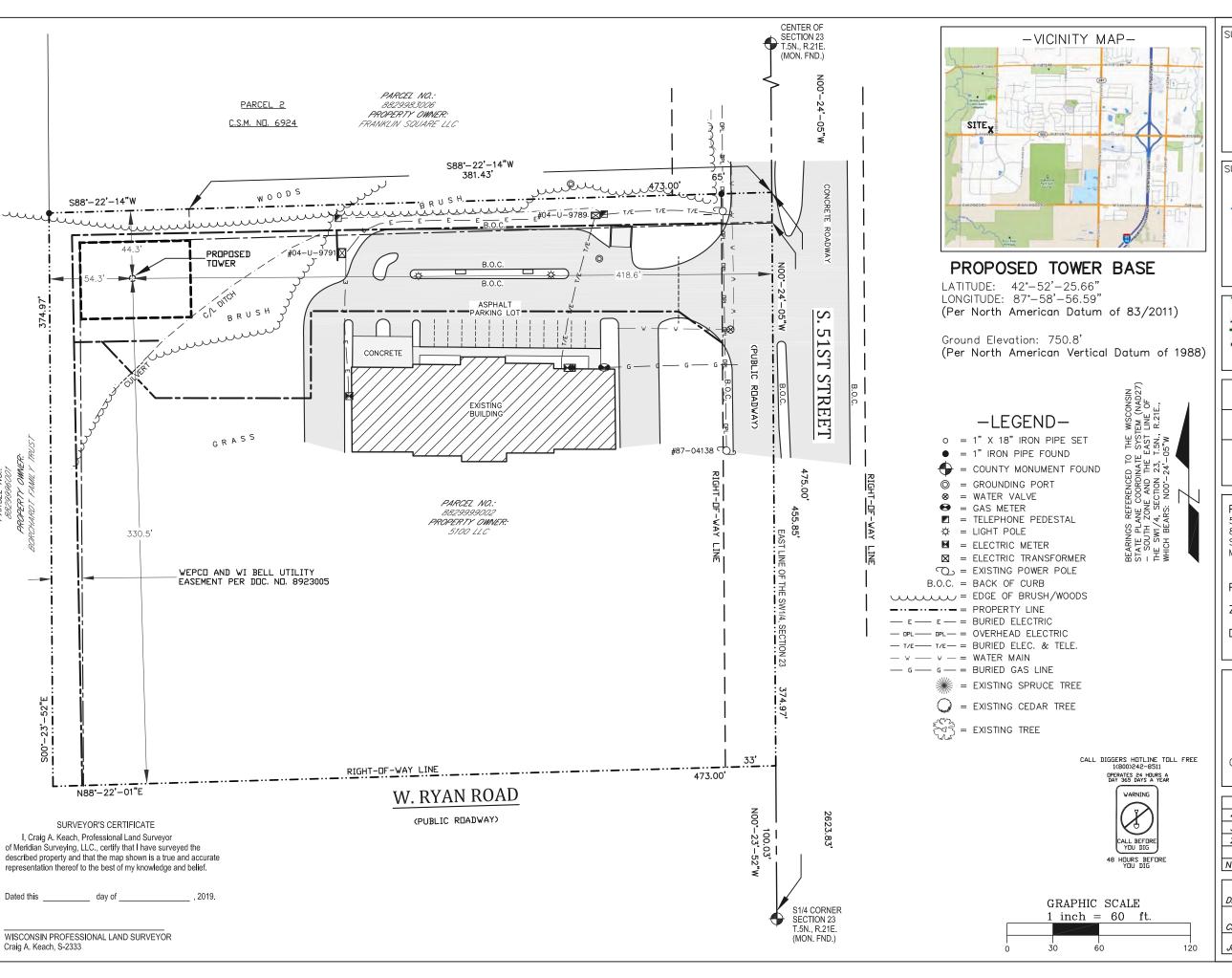
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PLOT 4/4/2019
PROJECT 18791

SHEET G-004

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SURVEYED FOR:

**Edge** 

Consulting Engineers, Inc.

624 Water Street Prairie du Sac, WI 53578 608,644,1449 voice 608,644,1549 fax www.edgeconsult.com

SURVEYED FOR:



8410 BRYN MAWR AVENUE CHICAGO, IL 60631



SURVEYING, LLC

N9637 Friendship Drive Office: 920-993-0881 Kaukauna, W 54130 Fax: 920-273-6037

SITE NAME: FRANKLIN INDUSTRIAL PARK

SITE NUMBER: 784700

SITE ADDRESS: 5112 W. RYAN ROAD FRANKLIN, WI 53132

PROPERTY OWNER:

5100 LLC 8200 W. BROWN DEER ROAD SUITE 301

SUITE 301 MILWAUKEE, WI 53223

PARCEL NO.: 882-9999-002

**ZONED:** COMMERCIAL

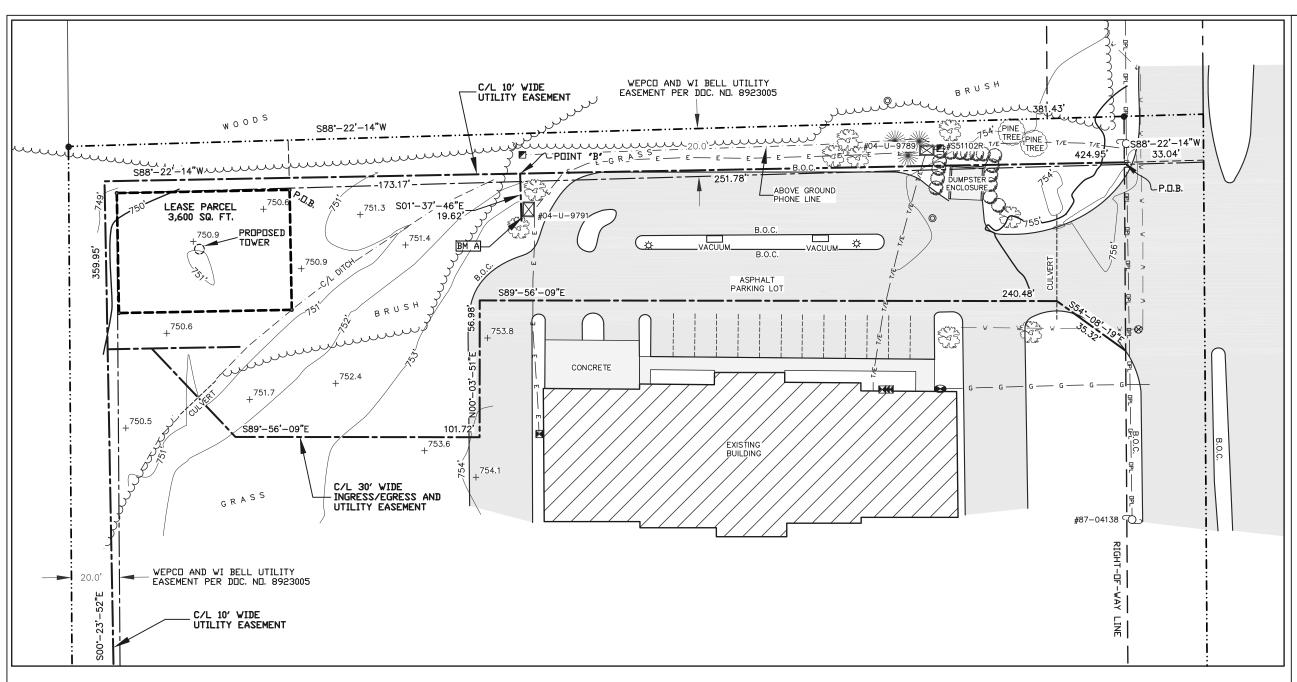
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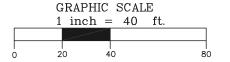
# LEASE EXHIBIT US CELLULAR

BEING A PART OF THE SE1/4 OF THE SW1/4, SECTION 23, T.5N., R.21E., CITY OF FRANKLIN, MILWUAKEE COUNTY, WISCONSIN

4	2/12/19	Revised Tower, Lease & Ease.	JB
3	2/8/19	Revised Tower, Lease & Ease.	JD
2	5/2/18	Added Tower, Lease, & Ease.	JB
1	4/18/18	Preliminary Survey	JD
NO.	DATE	DESCRIPTION	BY

DRAWN BY:	J.D.	FIELD DATE:	WORK	4/1	6/18	
CHECKED BY:	S. C. D.	FIELD	BOOK:	M-45	, PG. 5.	3
JOB NO.:	10217	SHEET	1	OF	3	





### BENCHMARK INFORMATION

SITE BENCHMARK: (BM A) TOP OF SW CORNER OF CONCRETE BASE OF

ELECTRIC TRANSFORMER NO. 04-U-9791

ELEVATION: 753.79'

### SURVEYOR'S CERTIFICATE

I, Craig A. Keach, Professional Land Surveyor of Meridian Surveying, LLC., certify that I have surveyed the described property and that the map shown is a true and accurate representation thereof to the best of my knowledge and belief.

Dated this \_\_\_ \_\_\_ day of \_\_\_\_\_

WISCONSIN PROFESSIONAL LAND SURVEYOR Craig A. Keach, S-2333

### -LEGEND-

o = 1" X 18" IRON PIPE SET

= 1" IRON PIPE FOUND

= COUNTY MONUMENT FOUND

⊗ = WATER VALVE

● = GAS METER

■ = TELEPHONE PEDESTAL

■ = ELECTRIC METER

■ ELECTRIC TRANSFORMER

CO = EXISTING POWER POLE B.O.C. = BACK OF CURB

= EDGE OF BRUSH/WOODS

-··- = PROPERTY LINE

— ε — ε — = BURIED ELECTRIC - OPL- OVERHEAD ELECTRIC

— T/E— T/E— = BURIED ELEC. & TELE.

-  $\vee$  - -  $\vee$  - = WATER MAIN - G- G- BURIED GAS LINE AGS JEI ME/A

= EXISTING SPRUCE TREE

= EXISTING CEDAR TREE EXISTING TREE

### SURVEY NOTES:

- -THE LOCATION OF THE EXISTING UTILITIES, AS SHOWN ON THIS PLAN, ARE APPROXIMATE ONLY. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY ACTUAL LOCATION AND DEPTH OF ALL EXISTING UTILITIES. THE OWNER AND THE SURVEYOR SHALL NOT BE RESPONSIBLE FOR ANY OMISSION OR VARIATION FROM THE LOCATION SHOWN.
- -DIGGERS HOTLINE TICKET NO. 20181506471 & 20181600863.
- -NO TITLE SEARCH FOR PARCEL OWNERSHIP OR EXISTENCE OR NONEXISTENCE OF RECORDED OR UNRECORDED EASEMENTS HAS BEEN COMPLETED AS PART OF THIS SURVEY.
- -THIS IS NOT A BOUNDARY SURVEY OF THE PARENT PARCEL. THIS SURVEY REPRESENTS THE LEASE AREA AND EASEMENTS ONLY.

-ACCORDING TO FEDERAL EMERGENCY AGENCY MAPS, THE PROPOSED TELECOMMUNICATIONS SITE IS LOCATED IN ZONE "X", COMMUNITY PANEL NO. 55079C0226E, DATED SEPTEMBER 26 2008, AND IS NOT IN A SPECIAL FLOOD HAZARD AREA. ZONE "X" IS DESIGNATED AS: "AREAS DETERMINED TO BE OUTSIDE OF 500-YEAR FLOOD PLAIN".

-THE PRESENCE AND LOCATION OF WETLANDS HAS NOT BEEN DETERMINED ON THIS PROPERTY. WETLANDS SHOULD ONLY BE DETERMINED BY ACTUAL FIELD DELINEATION PERFORMED BY A QUALIFIED WETLAND SPECIALIST.

SURVEYED FOR:

# **Edge**

### Consulting Engineers, Inc.

624 Water Street Prairie du Sac. WI 53578 608.644.1449 voice 608.644.1549 fax www.edgeconsult.com

SURVEYED FOR:



8410 BRYN MAWR AVENUE CHICAGO, IL 60631

SURVEYING, LLC

N9637 Friendship Drive Office: 920-993-0881 Kaukauna, WI 54130 Fax: 920-273-6037

SITE NAME: FRANKLIN INDUSTRIAL PARK

> SITE NUMBER: 784700

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5100 LLC 8200 W. BROWN DEER ROAD

MILWAUKEE, WI 53223

PARCEL NO.: 882-9999-002

ZONED: COMMERCIAL

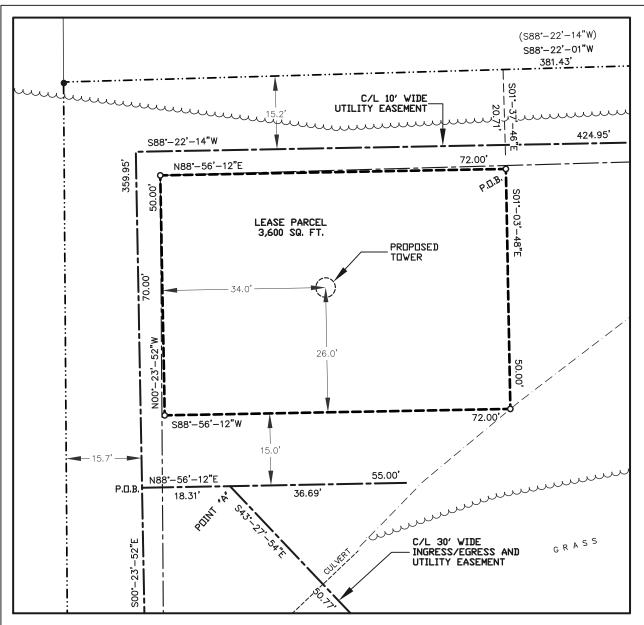
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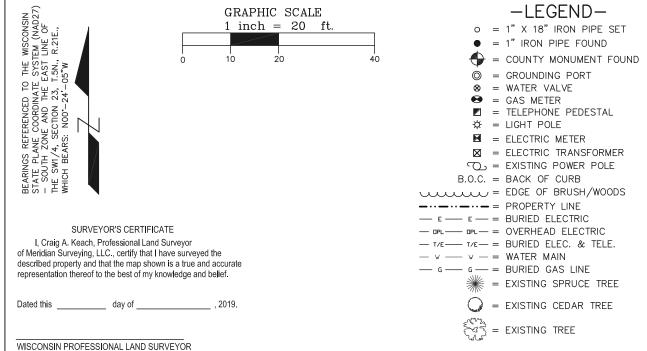
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CHECKED BY:	S. C. D.	FIELD	BOOK:	M−45,	PG.	53
JOB NO.:	10217	SHEET	2	OF	3	





Craig A. Keach, S-2333

### LEASE PARCEL

A part of the Southeast Quarter (SE1/4) of the Southwest Quarter (SW1/4) of Section Twenty-Three (23), Township Five (5) North, Range Twenty-One (21) East, City of Franklin, Milwaukee County, Wisconsin containing 3,600 square feet (0.083 acres) of land and being described by:

Commencing at the South Quarter Corner of said Section 23; thence N00°-24'-05"W 475.00 feet along the east line of the SW1/4 of said Section 23; thence S88°-22'-14"W 381.43 feet; thence S01°-37'-46"E 20.71 feet to the point of beginning; thence S01°-03'-48"E 50.00 feet; thence S88°-56'-12"W 72.00 feet; thence N00°-23'-52"W 50.00 feet; thence N88°-56'-12"E 72.00 feet to the point of beginning, being subject to any and all easements and restrictions of record.

### 30' WIDE INGRESS/EGRESS & UTILITY EASEMENT

A part of the Southeast Quarter (SE1/4) of the Southwest Quarter (SW1/4) of Section Twenty-Three (23), Township Five (5) North, Range Twenty-One (21) East, City of Franklin, Milwaukee County, Wisconsin containing 16,208 square feet (0.372 acres) of land and being Fifteen (15) feet each side of and parallel with the following described line:

Commencing at the South Quarter Corner of said Section 23; thence N00°-24'-05"W 455.85 feet along the east line of the SW1/4 of said Section 23; thence S88°-22'-14"W 33.04 feet to a point on the west line of S. 51st Street; thence continue S88°-22'-14"W 424.95 feet; thence S00°-23'-52"E 70.00 feet to the point of beginning; thence N88°-56'-12"E 18.31 feet to a point herein after referred to as "Point A"; thence continue N88°-56'-12"E 36.69 feet to the point of termination. Also, beginning at said Point "A"; thence S43°-27'-54"E 50.77 feet; thence S89°-56'-09"E 101.72 feet; thence N00°-03'-51"E 56.98 feet; thence S89°-56'09"E 240.48 feet; thence S54°-08'-19"E 35.32 feet to a point on the West Right of Way line of S. 51rst Street and the point of termination. The side lot lines of said easement are to be shortened or lengthened to terminate on the West Right of Way line of S. 51rst Street.

### 10' WIDE UTILITY EASEMENT

A part of the Southeast Quarter (SE1/4) of the Southwest Quarter (SW1/4) of Section Twenty-Three (23), Township Five (5) North, Range Twenty-One (21) East, City of Franklin, Milwaukee County, Wisconsin containing 8,045 square feet (0.185 acres) of land and being Five (5) feet each side of and parallel with the following described line:

Commencing at the South Quarter Corner of said Section 23; thence N00°-24'-05"W 455.85 feet along the east line of the SW1/4 of said Section 23; thence S88°-22'-14"W 33.04 feet to a point on the West Right of Way line of S. 51st Street and the point of beginning; thence continue S88°-22'-14"W 251.78 feet to a point herein after referred to as "Point B"; thence S01°-37'-46"E 19.62 feet to the point of termination. Also, beginning at said "Point B", thence S88°-22'-14"W 173.17 feet; thence S00°-23'-52"E 359.95 feet to a point on the North Right of Way line of W. Ryan Road and the point of termination. The side lot lines of said easement shall be shortened or lengthened to terminate on the North Right of Way line of W. Ryan Road and the West Right of Way line of S. 51st Street

SURVEYED FOR:



Consulting Engineers, Inc.

624 Water Street Prairie du Sac, WI 53578 608,644,1449 voice 608,644,1549 fax www.edgeconsult.com

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MILWAUKEE, WI 53223

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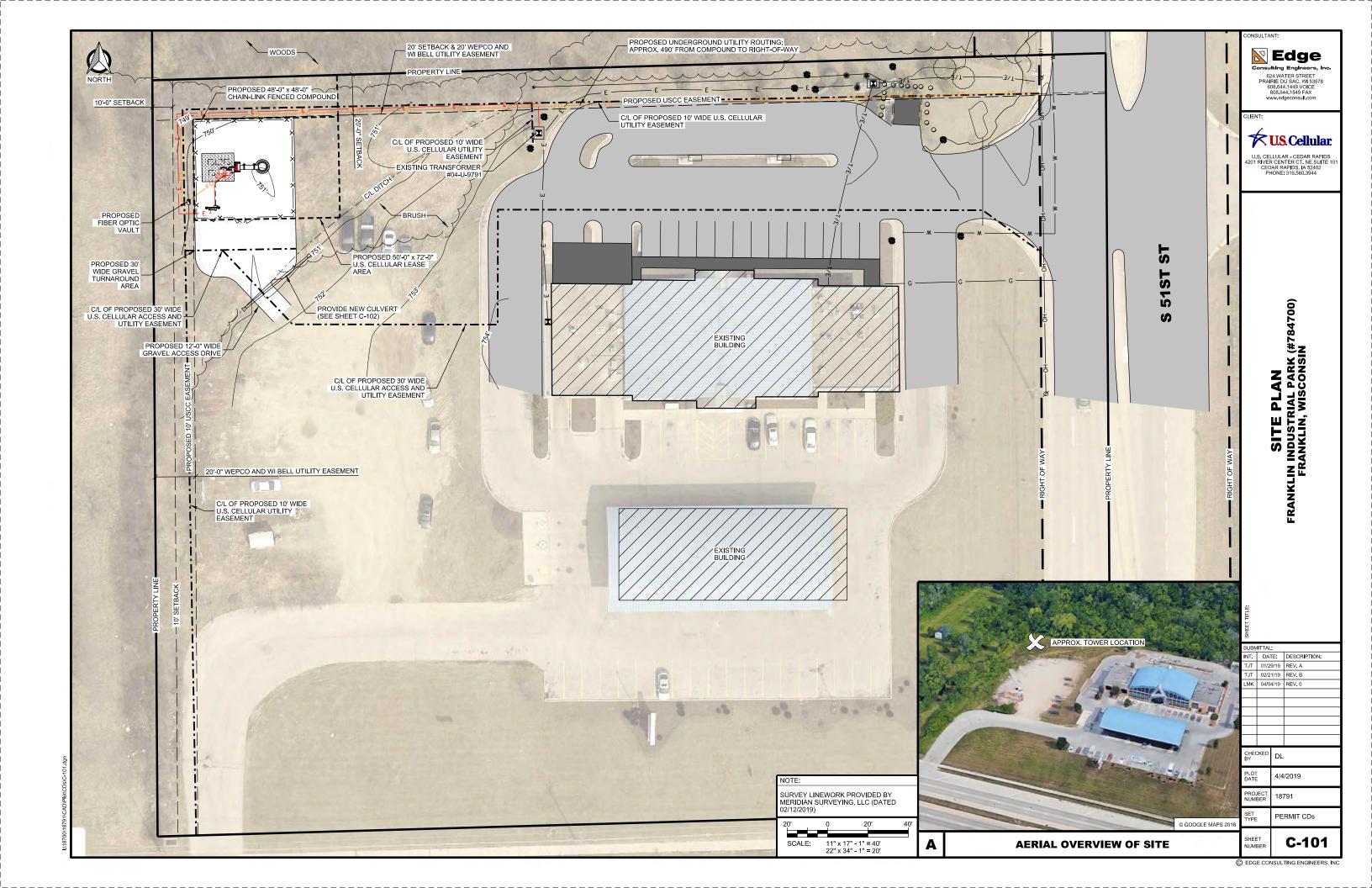
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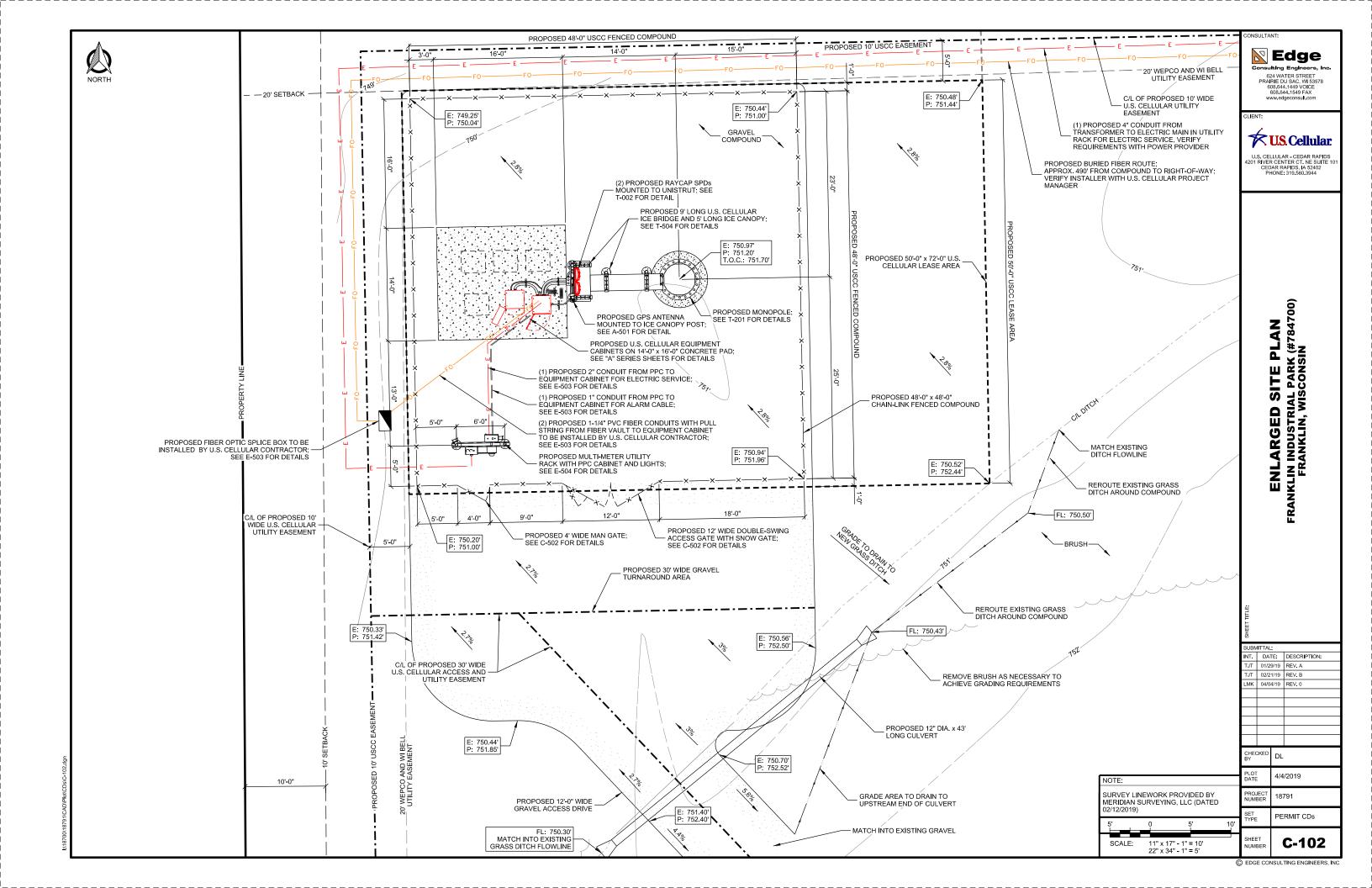
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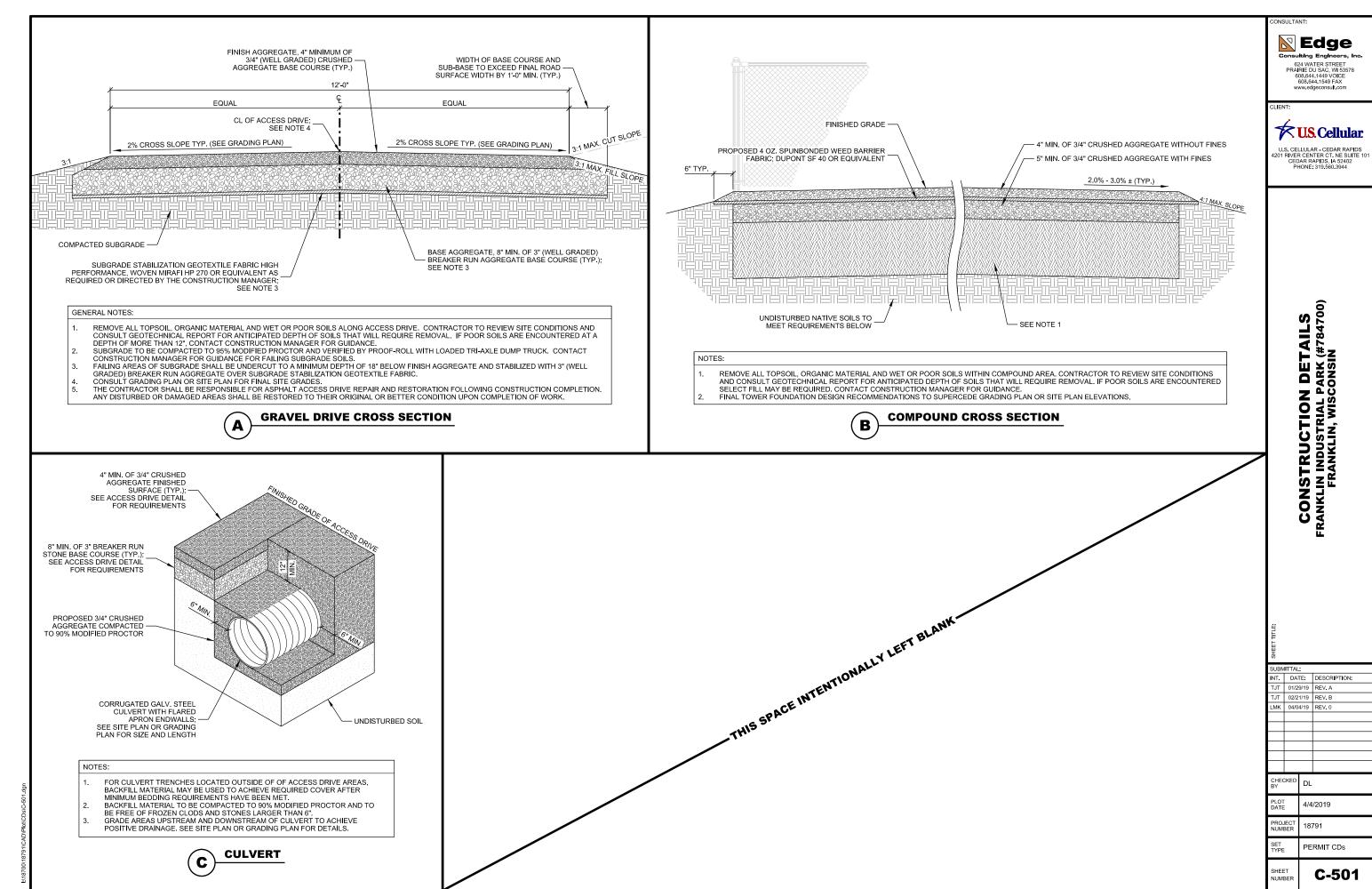
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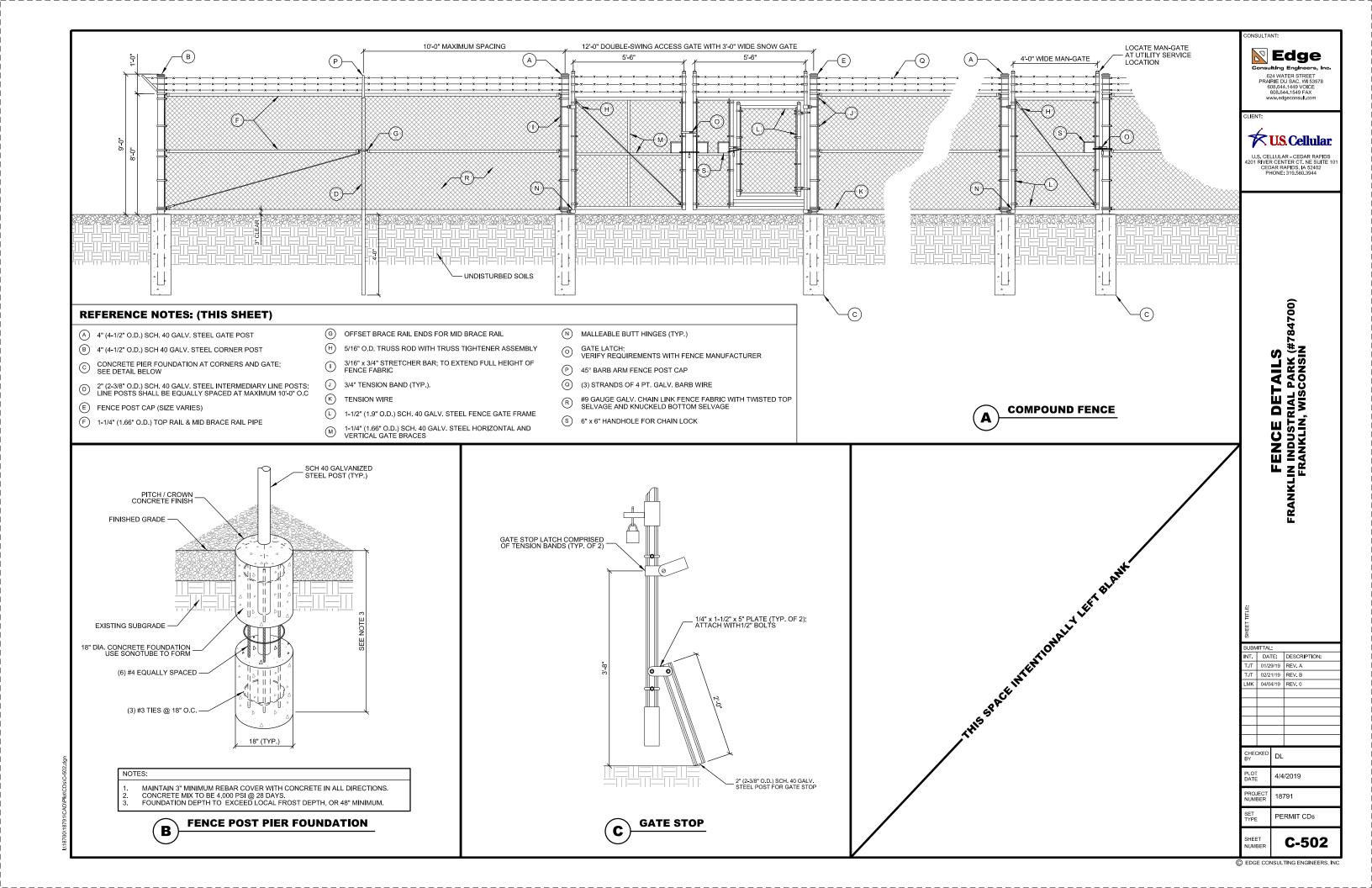
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JOB NO.: 1	0217	SHEET	3	OF	3	







© EDGE CONSULTING ENGINEERS. INC





TWIN658LU000G

# 8-Port Panel Antenna

(2x) 617-906 | (2x) 1695-2700 MHz



TWIN658LU000G

Length

Width

Depth

Survival Wind Speed

Net Weight - Antenna Only

Antenn

Windload

Connector

Radome Color

Radome Material

Width

Lightning Protection (Grounding Type)

Shipping Weight

Shipping Volume

MECHANICAL SPECIFICATIONS

TWIN DUAL BAND | 8-PORT PANEL | XPOL | 65° | 2433 MM (95.8 IN)

Calculation

Frontal

Lateral

Туре

Quantity

Position

mm (in)

mm (in)

mm (in)

kg (lbs)

N (lbf)

N (lbf)

mm (in)

mm (in) mm (in)

kg (lbs)

m3 (ft3)

km/h (mph)

km/h (mph)

8-Port Panel Antenna (2x) 617-906 | (2x) 1695-2700 MHz

2433 (95.8)

660 (26.0)

214 (8.4)

TBD

161 (100)

1364 (308)

240 (54)

241 (150)

4.3-10 Female

8

Bottom

ANSI 70 Gray

UV Stabilized ABS or Hips

Direct Ground TBD

TBD

TBD

TBD

TBD

65° 2433 mm

### TWIN DUAL BAND | 8-PORT PANEL | XPOL | 65° | 2433 MM (95.8 IN)

	Frequency Range (MHz)	617-906	617-906	1695-2700	1695-2700
>	Array	■ R1	■ R2	<b>™</b> Y1	₩ Y2
VIE	Connector	1-2	3-4	5-6	7-8
OVERVIEW	Connector Type	4.3-10 Female Long Neck	4.3-10 Female Long Neck	4,3-10 Female Long Neck	4.3-10 Female Long Neck
5	Polarization	XPOL	XPOL	XPOL	XPOL
PRODUCT	Azimuth Beamwidth (avg)	65°	65°	65°	65°
~	Electrical Downtilt	0-10°	0-10°	2-10"	2-10°
	Dimensions	24	133 x 660 x 214 mm	(95.8 x 26.0 x 8.4	in)



ELECTR	ICAL SPECIFICATIONS	Low Band		R1 R2						
Frequenc	y Range	MHz	A 10 -	(2x) 617-906						
Frequenc	y Sub-Range	MHz	617-698	698-798	800-906					
Polarizatio	on		70.	(2x) ±45°						
	Low Tilt	dBi	15.1	15,2	15.5					
c .	Mid Tilt	dBi	15.2	15.3	15.6					
Gain	High Tilt	dBi	15.3	15.4	15.7					
	Over all Tilts	dBi	15.2 ± 0.6	15.3 ± 0.5	15.6 ± 0.5					
Azimuth E	Beamwidth (3 dB)	degrees	68.9 ± 2.6	68.6 ± 3.2	68.4 ± 4.3					
Elevation	Beamwidth (3 dB)	degrees	10.0 ± 0.7	10.0 ± 0.7 9.0 ± 0.5						
Electrical	Downtilt	degrees	0-10							
Impedano	DE .	Ohms		50						
VSWR				1.5:1						
	termodulation for 2x20 W Carriers	dBm (dBc)	< -110 (< -153)							
	Back Ratio 80° from boresite	dB	> 27.7 > 27		> 26.0					
	lelobe Rejection r Above Main Beam	dB	> 20.6	> 19	> 17.9					
	ar Discrimination nical Boresight (0°)	dB	> 20.8	> 21	> 23.1					
Maximum	Power Per Port	Watts		500						
Interband	/Intraband Isolation	dB	25/30	25/30	25/30					

Standard values based on NGMN-P-BASTA version 9.6 recommendation.

Quoted performance parameters are provided to offer typical, peak or range values only and may vary as a result of normal testing, manufacturing and operational conditions. Extreme operational conditions and/or stress on structural supports is beyond our control. Such conditions may result in damage to this product. Improvements to products may be made without notice.

CONNECTING PEOPLE + TECHNOLOGY REV082318NA

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1 of 6

REV082318NA

**ANTENNA SPECIFICATIONS** 

# Quoted performance parameters are provided to offer typical, peak or range values only and may vary as a result of normal testing, manufacturing and operational conditions. Extreme operational conditions and/or stress on structural supports is beyond our control. Such conditions may result in damage to this product. Improvements to products may be made without notice.

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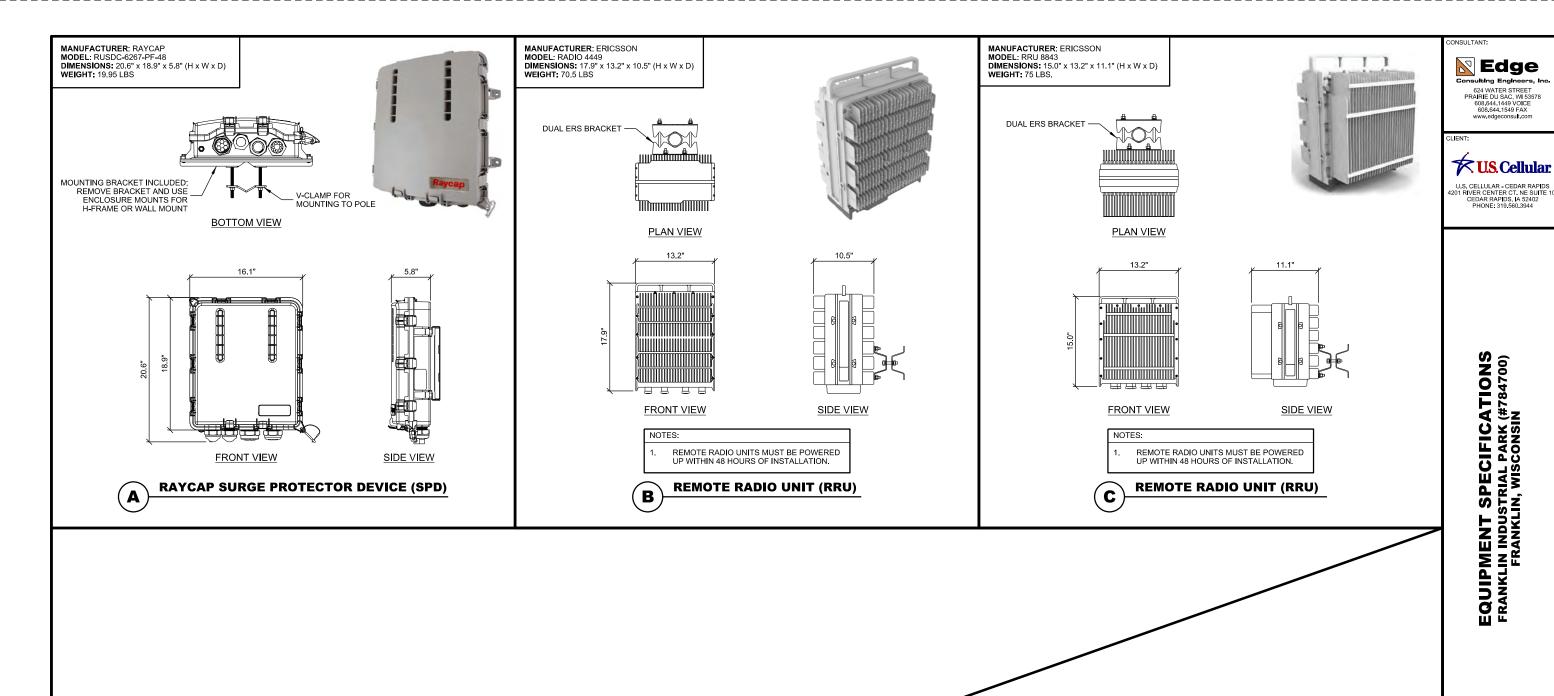
U.S. CELLULAR - CEDAR RAPIDS 4201 RIVER CENTER CT. NE SUITE 10 CEDAR RAPIDS, IA 52402 PHONE: 319.560.3944

# ANTENNA SPECIFICATIONS FRANKLIN INDUSTRIAL PARK (#784700) FRANKLIN, WISCONSIN

INT. DATE: DESCRIPTION: TJT 01/29/19 REV. A TJT 02/21/19 REV. B LMK 04/04/19 REV. 0

CHECKED BY	DL
PLOT DATE	4/4/2019
PROJECT NUMBER	18791
SET TYPE	PERMIT CDs

T-001



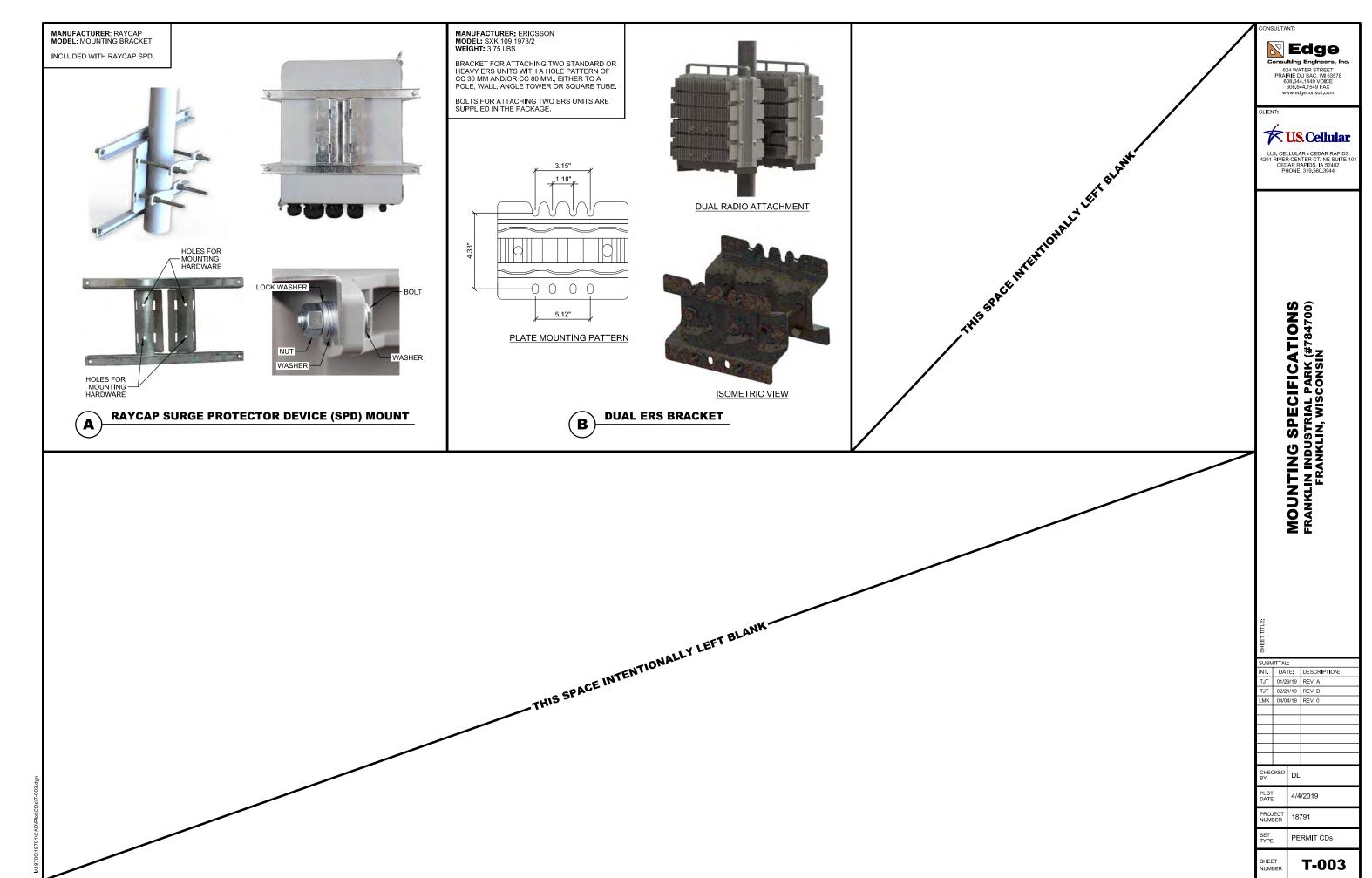
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SUBMITTAL: INT. DATE: DESCRIPTION: TJT 01/29/19 REV. A
TJT 02/21/19 REV. B
LMK 04/04/19 REV. 0 CHECKED

4/4/2019 18791 SET TYPE PERMIT CDs

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T-002



# SITE ELEVATION FRANKLIN INDUSTRIAL PARK (#784700) FRANKLIN, WISCONSIN

SUBMITTAL:

CHECKED

INT. DATE: DESCRIPTION:

TJT 01/29/19 REV. A

TJT 02/21/19 REV. B

LMK 04/04/19 REV. 0

**Edge** 

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**US.**Cellular

U.S. CELLULAR - CEDAR RAPIDS 4201 RIVER CENTER CT. NE SUITE 10 CEDAR RAPIDS, IA 52402 PHONE: 319.560.3944

NOTES:

CONTRACTOR TO VERIFY HEIGHT AND DIRECTION OF ANTENNAS WITH PROJECT MANAGER. CONTRACTOR TO VERIFY LIGHTNING ROD EXTENDS 2' MIN. ABOVE ALL ANTENNAS & EQUIPMENT.



PERMIT CDs

T-201

4/4/2019

18791

Propo	osec	Loading	:																		
Antenna	Infor	mation:							Radio I	nformation:						Other:					
												Band							2000		
Sector	Ant ID	Ant Manufac.	Ant Model	Ant Qty	Rad Ctr.	Mech Tilt	Radome Notes	Azi	Tech	B12 Radio	Radio Qty	Tower! Ground Mounted - 2T2R!4T4R	B2 Radio	Radio Qty	Towerl Ground Mounted - 2 T 2 R 1 4 T 4 R	Cable type	Cable Qty	Coax Size	Raycap Box Qty	Top Bias-T	TMA
Alpha	1	Amphenol	TWIN658LU000G-T	2	120	0	Shared	60	LTE	4449	1	TM-2T4R	8843	1	TM-4T4R	Hybrid	1	Hybrid 1-1/4"	1		
Alpha																Power	1	1-1/4"	1		
Alpha																					
Beta	1	Amphenol	TWIN658LU000G-T	2	120	0	Shared	180	LTE	4449	1	TM-2T4R	8843	1	TM-4T4R						
Beta																					
Beta																					
Gamma	1	Amphenol	TWIN658LU000G-T	2	120	0	Shared	300	LTE	4449	1	TM-2T4R	8843	1	TM-4T4R						
Gamma																					
Gamma																					
Total:											3										

NOTE:

ALL ANTENNA AZIMUTHS TO BE FROM TRUE NORTH.



ANTENNA AND EQUIPMENT LAYOUT

SCALE: 11" x 17" - 1/4" = 1'-0" 22" x 34" - 1/2" = 1'-0"

PER U.S. CELLULAR RDP DATED 04/04/2019 PROVIDED BY OTHERS

SHEET T-301

INT. DATE: DESCRIPTION:

TJT 01/29/19 REV. A

TJT 02/21/19 REV. B

LMK 04/04/19 REV. 0

4/4/2019

18791

PERMIT CDs

**Edge** 

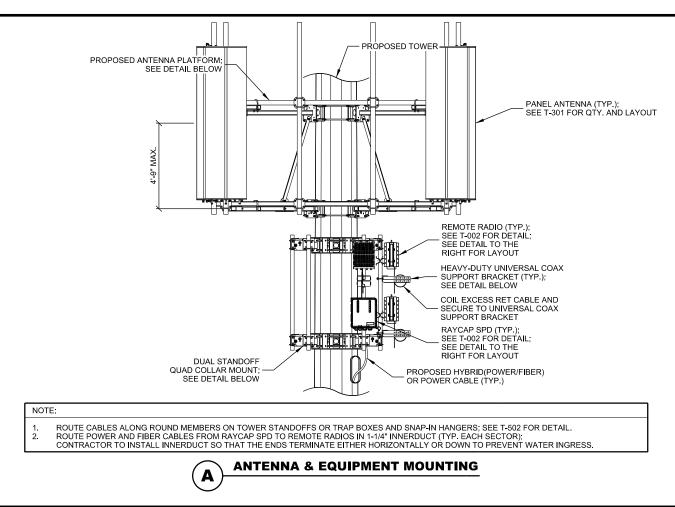
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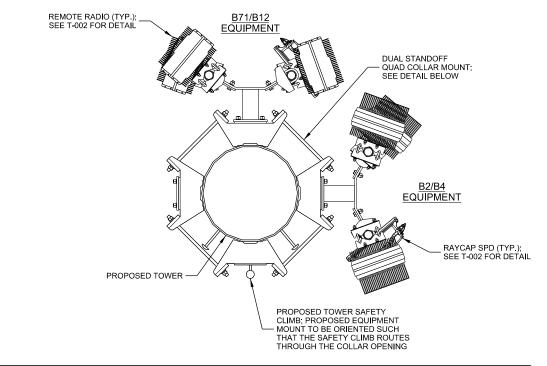
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ANTENNA AND EQUIPMENT CONFIGURATION FRANKLIN INDUSTRIAL PARK (#784700) FRANKLIN, WISCONSIN

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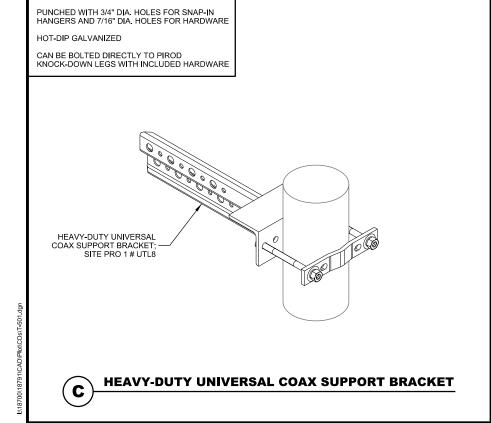




### NOTE:

- THIS DETAIL IS A GENERAL SCHEMATIC, SEE T-301 FOR ACTUAL TOWER ORIENTATION AND EQUIPMENT QUANTITIES. RAYCAP SPD AND REMOTE RADIOS AND MAY NOT BE INSTALLED ON TOWER LEGS THAT HAVE CLIMBER PEGS/SAFETY CLIMBS;
- CONTRACTOR TO AVOID PEGS/SAFETY CLIMB AS NECESSARY
- CONTRACTOR TO AVOID PEGS/SAFETY CLIMB AS NECESSARY.
  PER TIA STANDARDS: FALL PROTECTION ANCHORAGES SHALL BE AVAILABLE AT A MAXIMUM SPACING OF FOUR (4) FEET OVER THE HEIGHT NOT EQUIPPED WITH A SAFETY CLIMB SYSTEM OR OVER THE LENGTH OF THE OBSTRUCTION TO THE CLIMBING FACILITY.

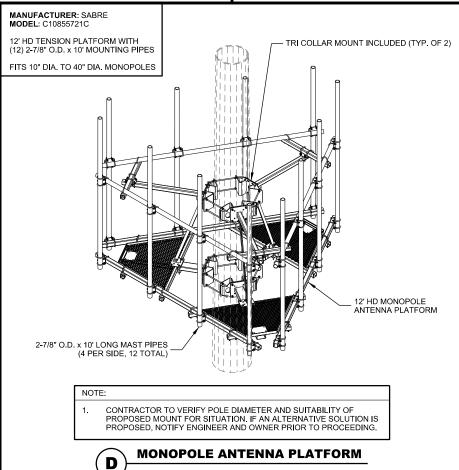


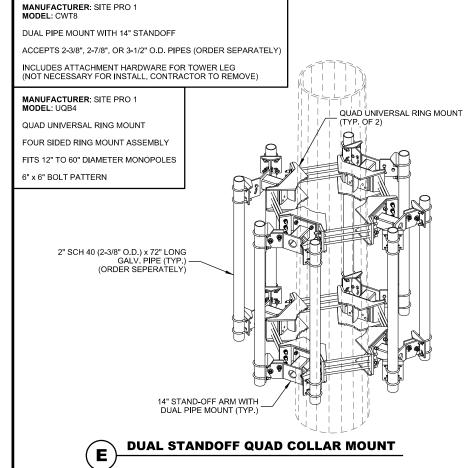


MANUFACTURER: SITE PRO 1

HEAVY-DUTY UNIVERSAL SUPPORT BRACKET

MOUNTS TO ROUND MEMBERS (1-1/2" O.D. TO 5-1/2" O.D.)





INSTALLATION DETAILS FRANKLIN INDUSTRIAL PARK (#784700) FRANKLIN, WISCONSIN

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**VS.** Cellular

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T-501

EUPEN CABLE LENGTH	
HYBRID CABLE QUANTITY FROM EQUIPMENT CABINET	1
POWER CABLE QUANTITY FROM EQUIPMENT CABINET	1
LENGTH ALONG ICE BRIDGE	15 FT
LENGTH FROM T.O.C. TO TOWER TOP RAYCAP SPD	115 FT
TOTAL LENGTH OF HYBRID CABLE	130 FT
ROUNDED LENGTH **	140 FT
U.S. CELLULAR PRE-ORDERED HYBRID CABLE LENGTH	TBD
* 410' MAX = TYPICAL HYBRID CABLE	

\* 550' MAX = LOW INDUCTANCE HYBRID CABLE

RET CABLE INFO				
ANTENNA TO REMOTE RADIO				
	QUANTITY	LEN	GTH	
ALPHA SECTOR	2	32.8 FT	10 m	
BETASECTOR	2	32.8 FT	10 m	
GAMMA SECTOR	2	32.8 FT	10 m	

\* STANDARD RET CABLE LENGTH OF 10 METERS; RF APPROVAL REQ'D FOR ADDITIONAL RET CABLE LENGTH

RAYCAP S	PD TO REMO	TE RADIO (B71	/B12)
1	QUANTITY	LENGTH	
ALPHA SECTOR	2	16.4 FT	5 m
BETA SECTOR	2	16.4 FT	5 m
GAMMA SECTOR	2	16.4 FT	5 m
RAYCAP	SPD TO REMO	OTE RADIO (B2	/B4)
	QUANTITY	LENGTH	
ALPHA SECTOR	2	16.4 FT	5 m
BETA SECTOR	2	16.4 FT	5 m
GAMMA SECTOR	2	16.4 FT	5 m

POWER JUMPER CABLE INFO (SHELTER)

RAYCAP SPD TO POWER BAY RACK

\* MAXIMUM JUMPER LENGTH OF 6m (19.7°)

B71/12 RAYCAP

	QUANTITY	LENGTH	
ALPHA SECTOR	2	16.4 FT	5 m
BETA SECTOR	2	16.4 FT	5 m
GAMMA SECTOR	2	16.4 FT	5 m
RAYCAP	SPD TO REMO	TE RADIO (B2	/B4)
	QUANTITY	LENGTH	
ALPHA SECTOR	1	16.4 FT	5 m
BETA SECTOR	1	16.4 FT	5 m
GAMMA SECTOR	1	16.4 FT	5 m

FIBER JUMPER CABLE INFO (SHELTER)

LENGTH

10 m

32.8 FT

32.8 FT

RAYCAP SPD TO FIF RACK

COA	X JUMPER CA	BLE INFO	
REMOTE RADIO TO ANTENNA (B71/B12)			
	QUANTITY	LENGTH	
ALPHA SECTOR	4	25 FT *	
BETA SECTOR	4	25 FT *	
GAMMA SECTOR	4	25 FT *	
REMO	TE RADIO TO ANT	ENNA (B2/B4)	
	QUANTITY	LENGTH	
ALPHA SECTOR	8	25 FT *	
BETA SECTOR	8	25 FT*	
	8	25 FT*	

MANUFACTURER: EUPEN MODEL: EUCAHYBRID 114-12AWG6 (HYBRID)
MINIMUM BENDING RADIUS: 360mm (14") MAXIMUM PULLING STRENGTH: 150 daN MAXIMUM HANGER SPACING: 1.0 m APPROX. WEIGHT: 2300 kg/km (1.55 LB/FT)

1-1/4" HYBRID FIBER OPTIC CABLE WITH 48V ENERGY FEEDER IN CORRUGATED ALUMINUM SHIELDING WITH UV RESISTANT PE JACKET.

MAXIMUM CABLE LENGTH OF 410'.

MODEL: EUCAPOWER 114-12AWG6 (POWER)
MINIMUM BENDING RADIUS: 360mm (14") MAXIMUM PULLING STRENGTH: 150 daN MAXIMUM HANGER SPACING: 1.0 m APPROX. WEIGHT: 2300 kg/km (1.55 LB/FT) 1-1/4" CABLE WITH 48V ENERGY FEEDER IN CORRUGATED ALUMINUM SHIELDING WITH UV RESISTANT PE JACKET.

MANUFACTURER: EUPEN

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CABLE DETAILS FRANKLIN INDUSTRIAL PARK (#784700) FRANKLIN, WISCONSIN

POWER CABLE CROSS SECTION



**POWER CABLE ISOMETRIC** 

5b

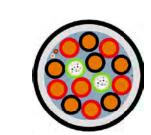
TX RX

6a

TX RX

5a

**EUPEN HYBRID AND POWER CABLES** 













32.8 FT

32.8 FT

LENGTH

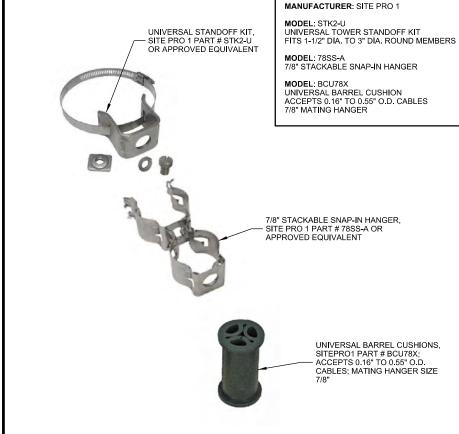
10 m

10 m

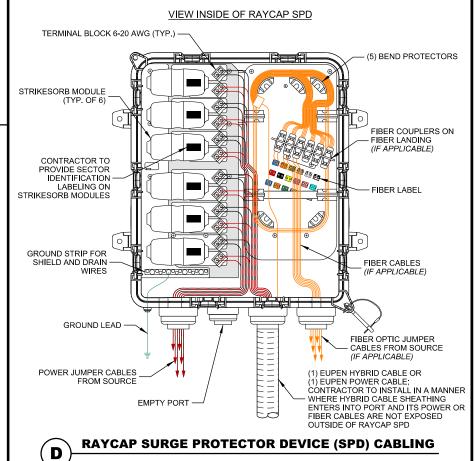
## **CABLE LENGTHS**

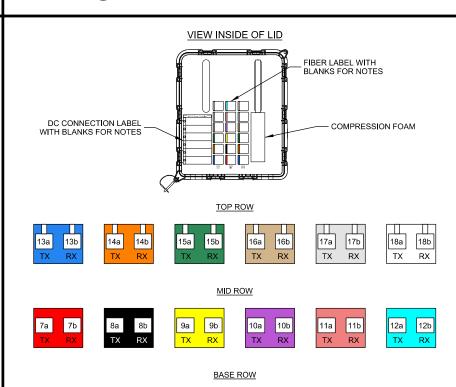
B71/12 RAYCAP

B2/B4 RAYCAP



**JUMPER ATTACHMENT** 





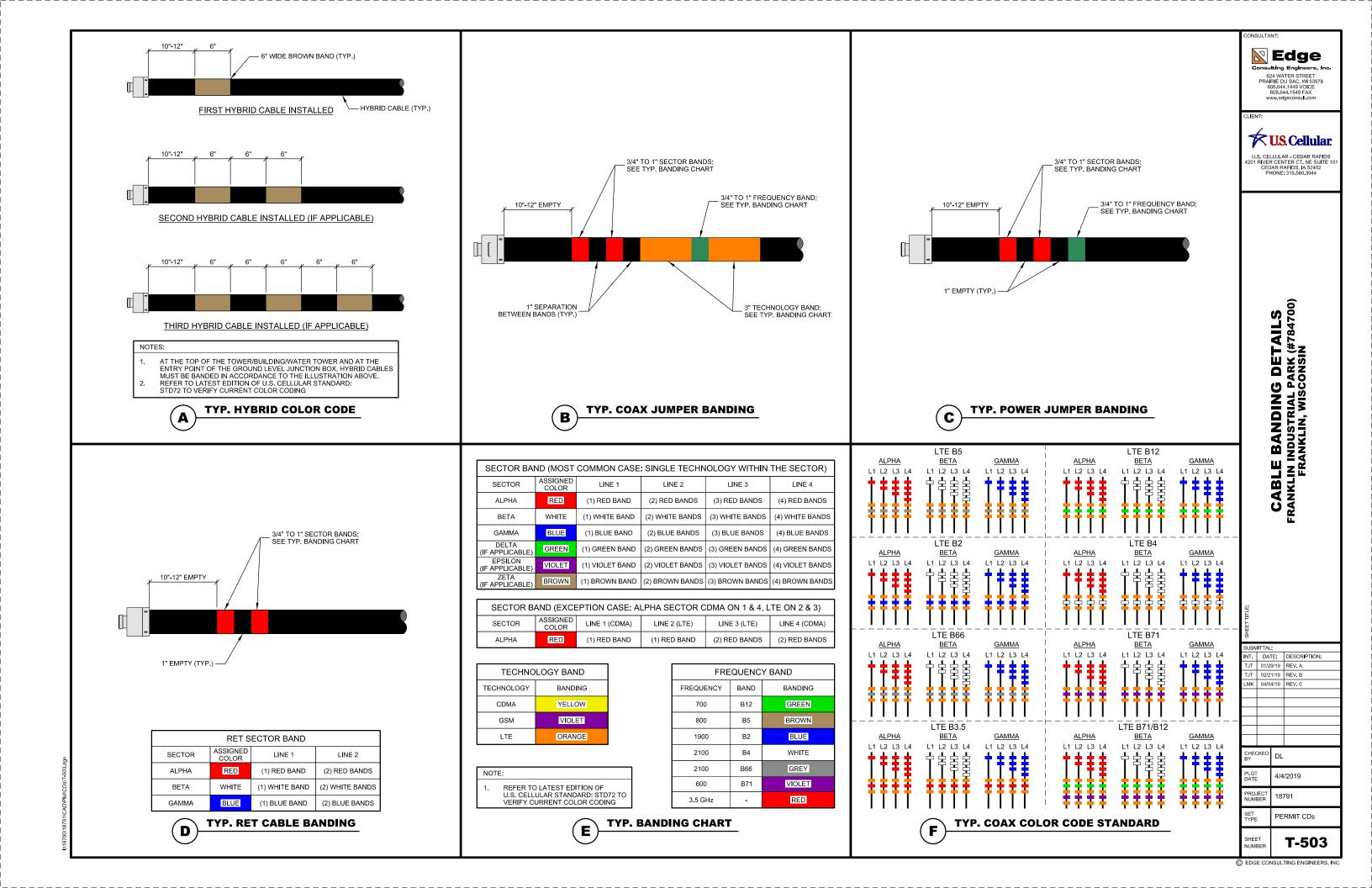
**FIBER LABEL** E

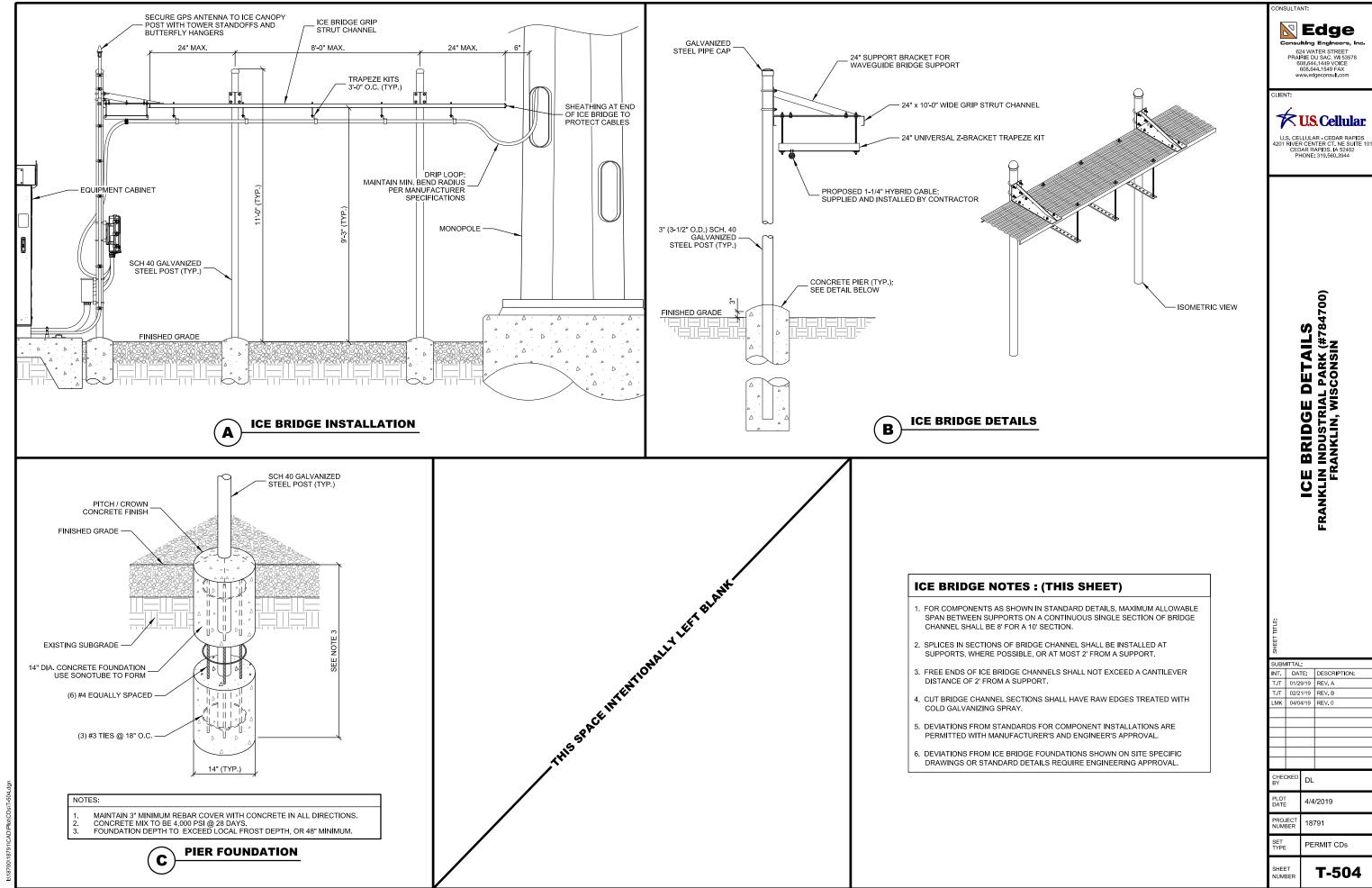
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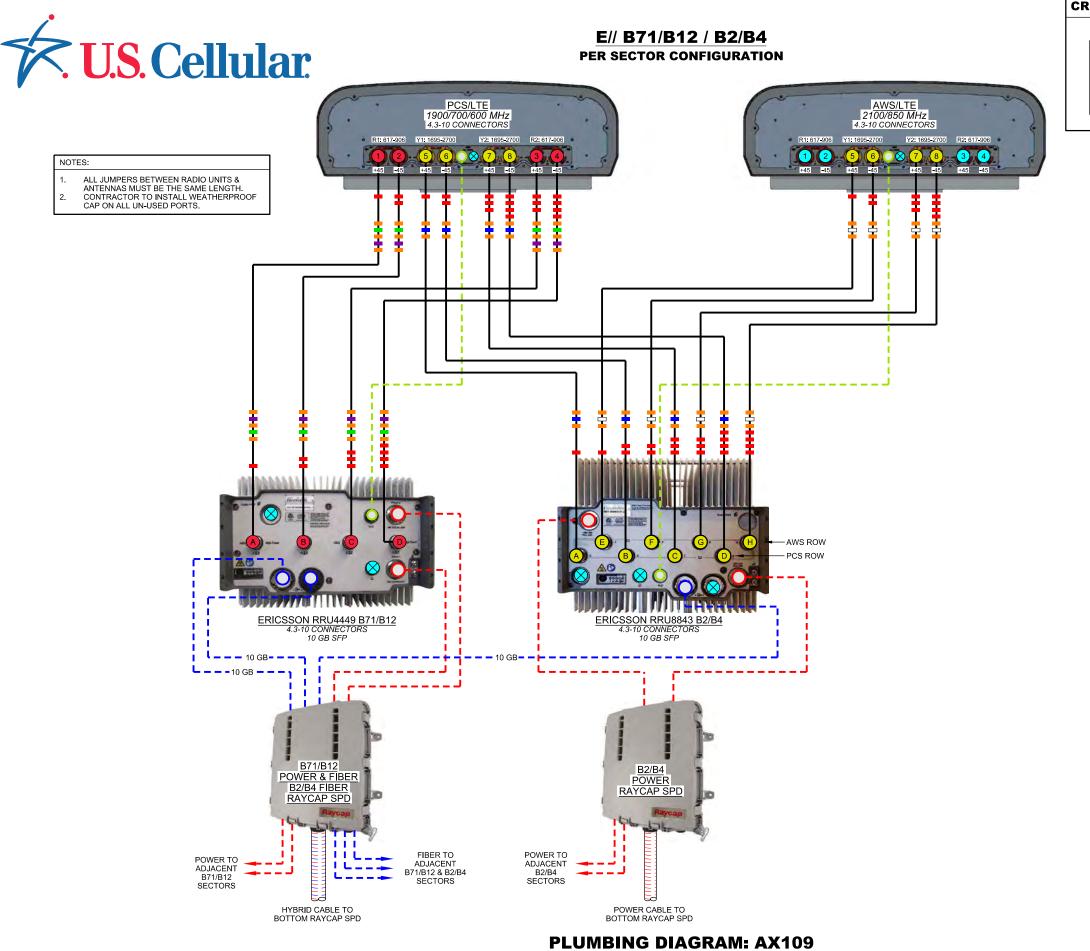
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T-502







### **CROSS POLE ANT. TO RADIO PORT DIAGRAM**

ANTENNA UNIT R/PORT B or F 3RD R/BRANCH ANT/PORT 2 RADIO R/PORT D or H 4TH R/BRANCH ANT/PORT 4

**CABLE LEGEND** 

EUPEN HYBRID CABLE

EUPEN POWER CABLE

WEATHERPROOF CAP

1/2" COAX JUMPER FIBER JUMPER POWER JUMPER RET JUMPER MID BAND PORT LOW BAND PORT

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PLUMBING DIAGRAM FRANKLIN INDUSTRIAL PARK (#784700) FRANKLIN, WISCONSIN

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4/4/2019

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SHEET T-505

Edge

DATE CREATED: 03/26/2019

### **EQUIPMENT:**

- A LTE EQUIPMENT CABINET WITH MOUNTING PLINTH; SEE A-002 FOR DETAILS
- B BATTERY BACKUP CABINET; SEE A-002 FOR DETAILS
- RAYCAP SPD SECURED TO ICE BRIDGE; © SEE C-102 FOR QUANTITY
- (D) 12" x 12" x 6" FIBER/POWER JUNCTION BOX SECURED TO UNISTRUT
- E GROUND BAR ON INSULATORS

### **CONDUITS:**

- 1-1/4" (1.66" O.D.) SCH. 40 PVC CONDUIT STUB-UPS WITH PULL STRING TO F FIBER VAULT (TYP. OF 2); STUB-UP CONDUITS IN FRONT CORNER OF COMPOUND FOR MICROWAVE DISH INSTALLATIONS
- (G) 2" (2-3/8" O.D.) SCH. 40 PVC CONDUIT STUB-UP WITH PULL STRING TO PPC
- $\stackrel{\mbox{\scriptsize H}}{\mbox{\scriptsize H}}$  1" (1-1/4" O.D.) SCH. 40 PVC CONDUIT STUB-UP TO WITH PULL STRING FOR ALARM CABLING TO PPC
- $\begin{tabular}{ll} $2-1/2"$ (2-7/8" O.D.) LIQUID-TIGHT FLEXIBLE METALLIC CONDUIT FROM LTE EQUIPMENT CABINET PLINTH TO JUNCTION BOX (TYP. OF 2) \\ \end{tabular}$
- 2-1/2" (2-7/8" O.D.) LIQUID-TIGHT FLEXIBLE METALLIC CONDUIT FROM BATTERY BACKUP CABINET TO LTE EQUIPMENT CABINET PLINTH FOR
- 2" (2-3/8" O.D.) LIQUID-TIGHT FLEXIBLE METALLIC CONDUIT FROM LTE (K) EQUIPMENT CABINET TO UNISTRUT RACK FOR MICROWAVE DISH CABLING
- 1" (1-1/4" O.D.) LIQUID-TIGHT FLEXIBLE METALLIC CONDUIT FROM LTE 1" (1-1/4" O.D.) LIQUID-HOFT FLEADLE MELTINES GOLD EQUIPMENT CABINET PLINTH TO UNISTRUT RACK FOR GPS CABLING
- 1-1/2" (1.9" O.D.) LIQUID-TIGHT FLEXIBLE METALLIC CONDUIT FROM M JUNCTION BOX TO RAYCAP SPD FOR POWER CABLING (TYP. OF PER RAYCAP SPD)
- $\fbox{N}$   $^{1-1/4"}$  (1.66" O.D.) LIQUID-TIGHT FLEXIBLE METALLIC CONDUIT FROM JUNCTION BOX TO RAYCAP SPD FOR FIBER CABLING (TYP. OF PER RAYCAP SPD)
- $\bigcirc \ \ 3/4" \ (1"\ O.D.) \ LIQUID-TIGHT FLEXIBLE METALLIC CONDUIT FROM LTE EQUIPMENT CABINET FOR GROUND LEAD (TYP. OF 2)$
- 3/4" (1" O.D.) LIQUID-TIGHT FLEXIBLE METALLIC CONDUIT FROM BATTERY
- Q LIQUID-TIGHT CONDUIT FITTING (TYP.)
- ROXTEC WEATHERPROOF SEAL (IF APPLICABLE); SIZE TO ACCEPT MICROWAVE DISH CABLING QUANTITY AND DIAMETER
- S 1'-0" UNISTRUT CONDUIT TIE DOWN (TYP.); SEE A-501 FOR DETAILS

### **EQUIPMENT PAD RACK:**

- T 2'-0" WIDE x 5'-0" LONG ICE BRIDGE; SEE A-501 FOR DETAILS
- P-1000T GALV. UNISTRUT OR APPROVED EQUIV.; U) UNISTRUT TO BE CUT TO LENGTH TO ENSURE PROPER FASTENING TO POST WITHOUT EXCESS
- UNISTRUT END CAP AT EACH END OF UNISTRUT; SITE PRO 1 #: UNICAP OR APPROVED EQUIV.;
- W HYBRID CABLE;
  MAINTAIN MINIMUM BEND RADIUS
- (X) HEAVY-DUTY UNIVERSAL COAX SUPPORT BRACKET; SEE A-501 FOR DETAILS
- GPS ANTENNA SECURED TO ICE BRIDGE POST; SEE A-501 FOR DETAILS
- Z CONCRETE PIER; SEE A-501 FOR DETAILS

### **CONCRETE AND REINFORCING NOTES:**

- ALL CONCRETE CONSTRUCTION SHALL BE IN ACCORDANCE WITH LOCAL BUILDING CODE REQUIREMENTS AND MOST CURRENT VERSION OF ACI STANDARDS.
- OF ACI STANDARDS.

  ALL CONCRETE UNLESS SPECIFICALLY NOTED SHALL BE NORMAL WEIGHT (145 PCF) AND SHALL ACHIEVE A 28-DAY COMPRESSIVE STRENGTH (FC) OF 4.000 PSI. EXPOSED EXTERIOR CONCRETE TO BE AIR ENTRAINED WITH 6% +/- 1% AIR CONTENT. CONTRACTOR TO PERFORM CONCRETE SLUMP TEST (4" MAX SLUMP). NO WATER TO BE ADDED AFTER SLUMP HAS BEEN MEASURED.
- ALL CONCRETE REINFORCING SHALL BE ASTM A615 GRADE 60 AND PLACED IN ACCORDANCE WITH ACI STANDARDS REMOVE ALL ORGANIC MATERIAL, SOFT AND/OR UNSUITABLE SOILS WITHIN FOUNDATION FOOTPRINT. DO NOT UTILIZE THESE SOILS FOR BACKFILL
- CONSULT GEOTECHNICAL INVESTIGATION REPORT FOR ANTICIPATED SOIL CONDITIONS AND CONSTRUCTION CONSIDERATIONS.
- FOUNDATION DESIGN BASED ON A PRESUMPTIVE SOIL BEARING CAPACITY OF 2000 PSF AND MAX. PLASTICITY INDEX OF 20, CONTRACTOR TO CONFIRM BEARING SOILS MEET THESE CONDITIONS BEFORE INSTALLATION.
- SOILS NOT MEETING THE DESIGN BEARING STRENGTH SHALL BE UNDERCUT AND REPLACED WITH 3-INCH BREAKER STONE, UNDERCUT ONE FOOT ON EACH SIDE OF THE FOOTING FOR EVERY FOOT IN DEPTH. CONSULT WITH ENGINEER FOR REQUIRED UNDERCUT DEPTH. CONTRACTOR TO ENSURE POSITIVE DRAINAGE FROM ALL
- FOUNDATIONS.





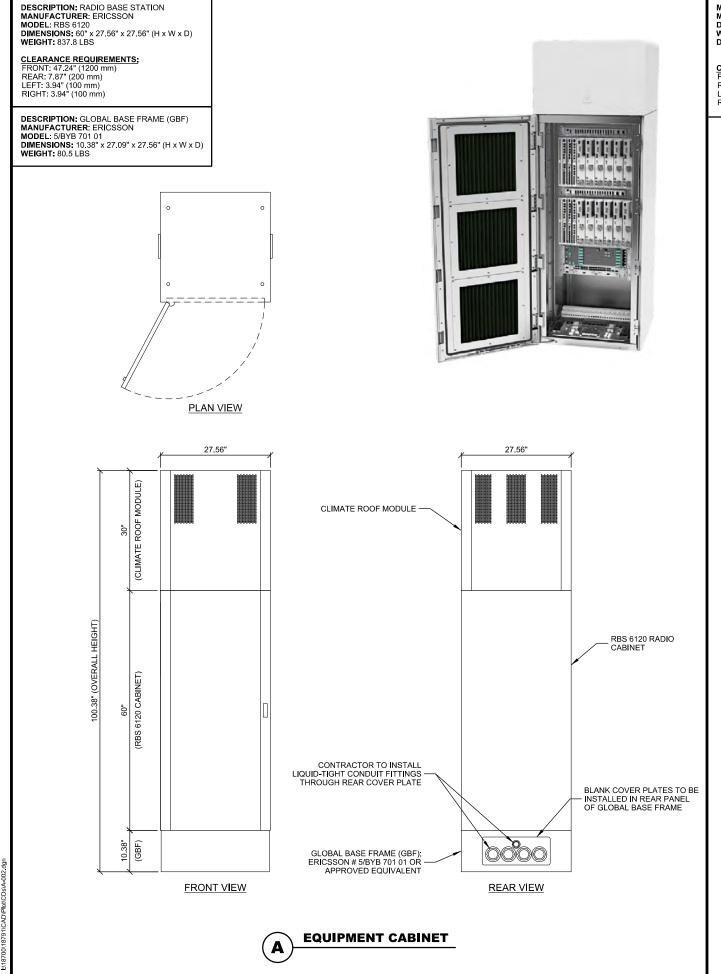
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# EQUIPMENT PAD NOTES FRANKLIN INDUSTRIAL PARK (#784700) FRANKLIN, WISCONSIN

INT. DATE: DESCRIPTION: TJT 01/29/19 REV. A TJT 02/21/19 REV. B LMK 04/04/19 REV. 0

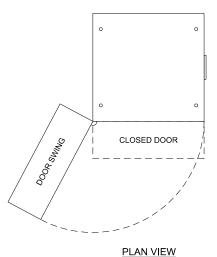
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A-001

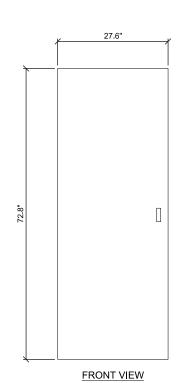


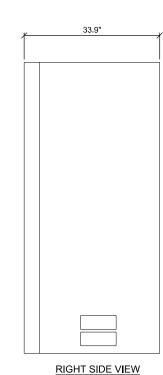
MANUFACTURER: ERICSSON MODEL: B174 DIMENSIONS: 72.8 x 27.6" x 33.9" (H x W x D) WEIGHT: 297.6 LBS (WITHOUT BATTERIES) DESCRIPTION: A 48 V/840 Ah OUTDOOR BATTERY BACKUP SYSTEM

CLEARANCE REQUIREMENTS: FRONT: 28" (700 mm) REAR: 8" (200 mm) LEFT: 39" (1000 mm) RIGHT: 10" (250 mm)









NOTES:

- CONTRACTOR TO INSTALL 1/2" THICK SKIRTBOARD RUBBER MAT BENEATH CABINET; PAD TO HAVE A 1/2" SMALLER FOOTPRINT THAN THE CABINET, PERIMETER OF PAD TO BE SEALED WITH OUTDOOR GRADE 100% SILICONE CAULK. ERICSSON IS RESPONSIBLE FOR FINAL INSTALLATION OF PROPOSED BBS 6101 BATTERY SYSTEM WITH ASSOCIATED
- PLUMBING AND EQUIPMENT.

  CONTRACTOR TO VERIFY EQUIPMENT REQUIREMENTS WITH ERICSSON PRIOR TO INSTALLATION.



**BATTERY BACKUP SYSTEM** 

**Edge** 

624 WATER STREET
PRAIRIE DU SAC, WI 53578
608.644.1449 VOICE
608.644.1549 FAX
www.edgeconsult.com



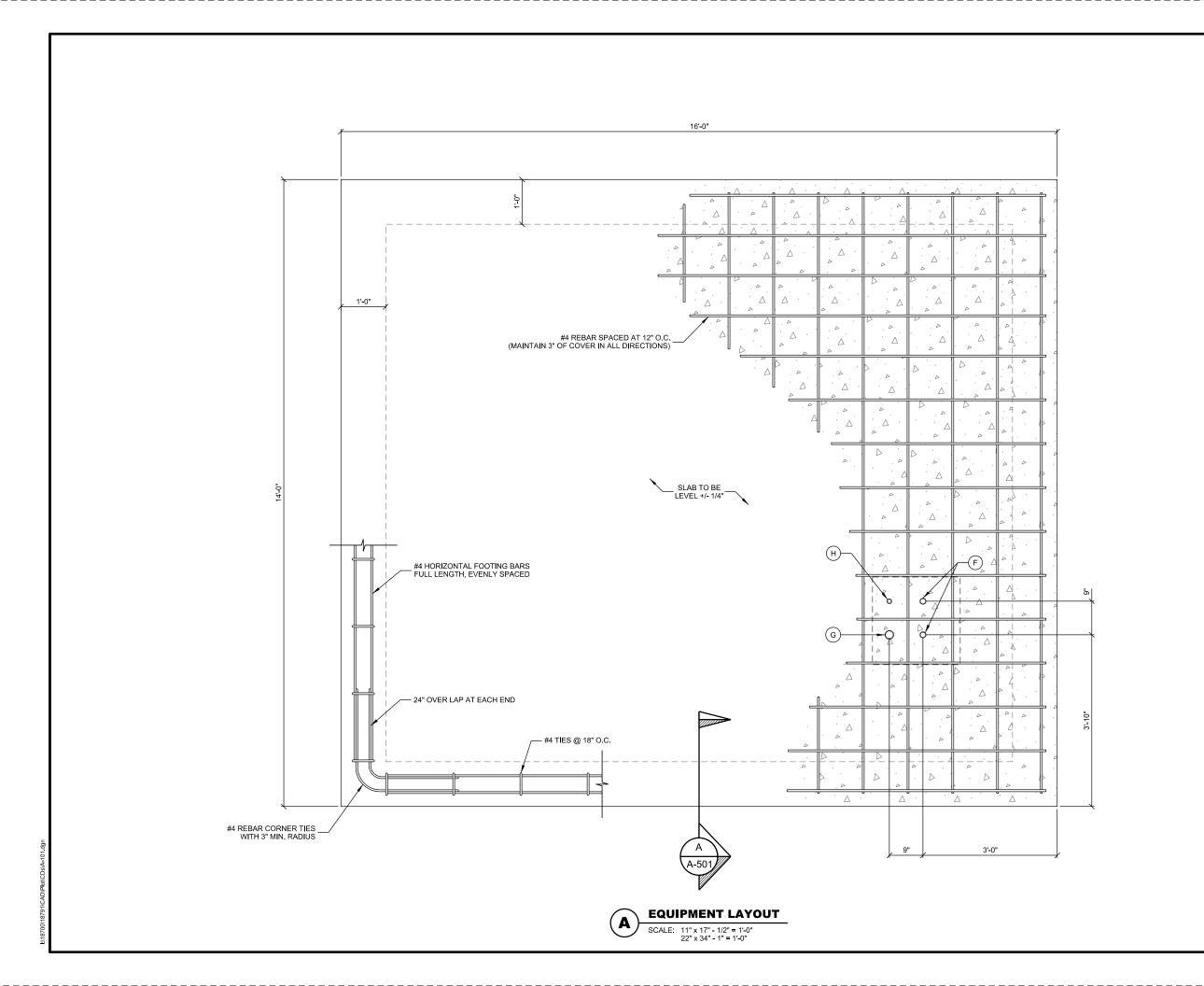
U.S. CELLULAR - CEDAR RAPIDS 4201 RIVER CENTER CT. NE SUITE 10 CEDAR RAPIDS, IA 52402 PHONE: 319.560.3944

EQUIPMENT CABINET SPECIFICATIONS FRANKLIN INDUSTRIAL PARK (#784700) FRANKLIN, WISCONSIN

INT. DATE: DESCRIPTION: TJT 01/29/19 REV. A
TJT 02/21/19 REV. B LMK 04/04/19 REV. 0

4/4/2019 18791 PERMIT CDs

A-002



Consulting Engineers, Inc.
624 WATER STREET
PRAIRIE DU SAC, WI 53578
608.644.1449 VOICE
608.644.1549 FAX
www.edgeconsult.com

CLIENT:



U.S. CELLULAR - CEDAR RAPIDS 4201 RIVER CENTER CT. NE SUITE 10 CEDAR RAPIDS, IA 52402 PHONE: 319.560.3944

> EQUIPMENT PAD PLAN FRANKLIN INDUSTRIAL PARK (#784700) FRANKLIN, WISCONSIN

SHEET TITLE:

SUBMITTAL:
INT. DATE: DESCRIPTION:

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TJT 02/21/19 REV. B

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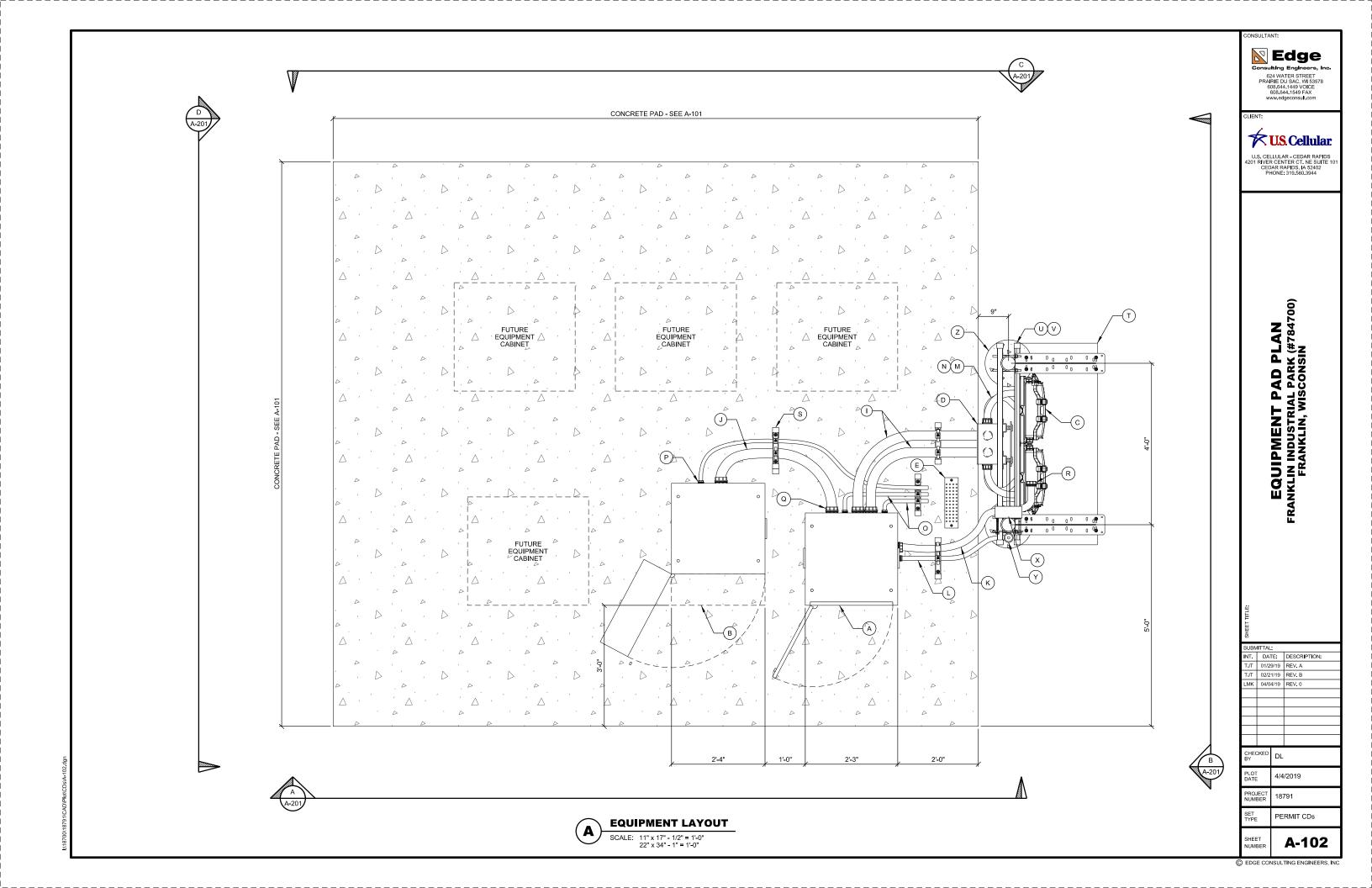
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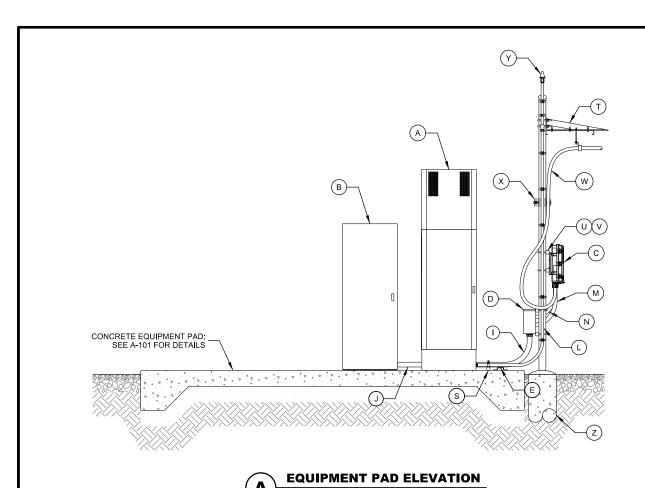
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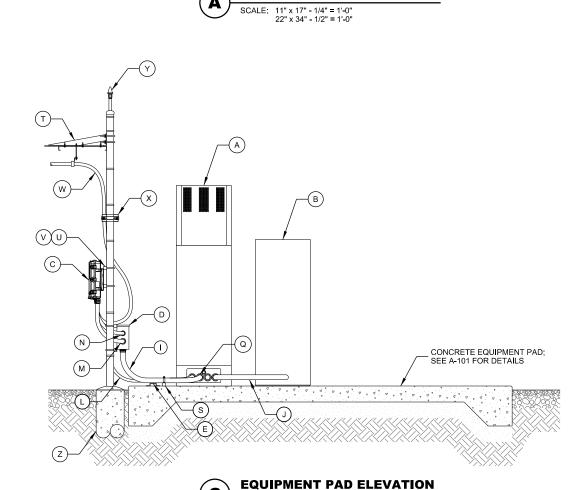
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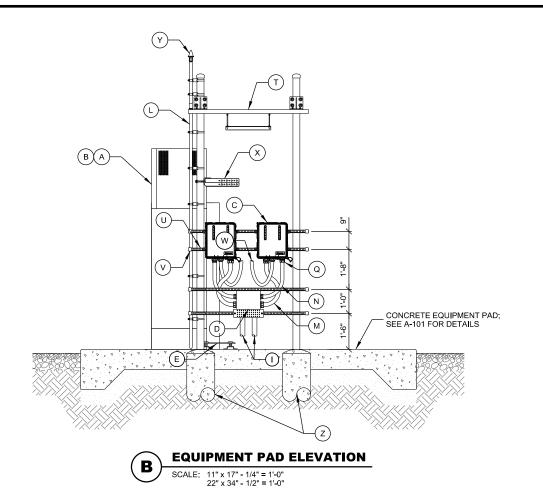
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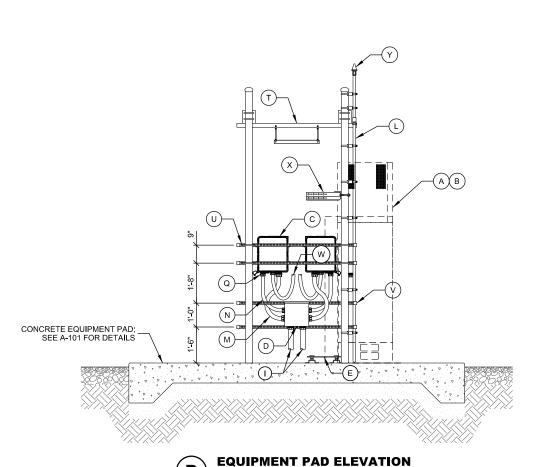






SCALE: 11" x 17" - 1/4" = 1'-0" 22" x 34" - 1/2" = 1'-0"





SCALE: 11" x 17" - 1/4" = 1'-0" 22" x 34" - 1/2" = 1'-0"



**Edge** 

624 WATER STREET
PRAIRIE DU SAC, WI 53578
608.644.1449 VOICE
608.644.1549 FAX
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**US.**Cellular

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PERMIT CDs

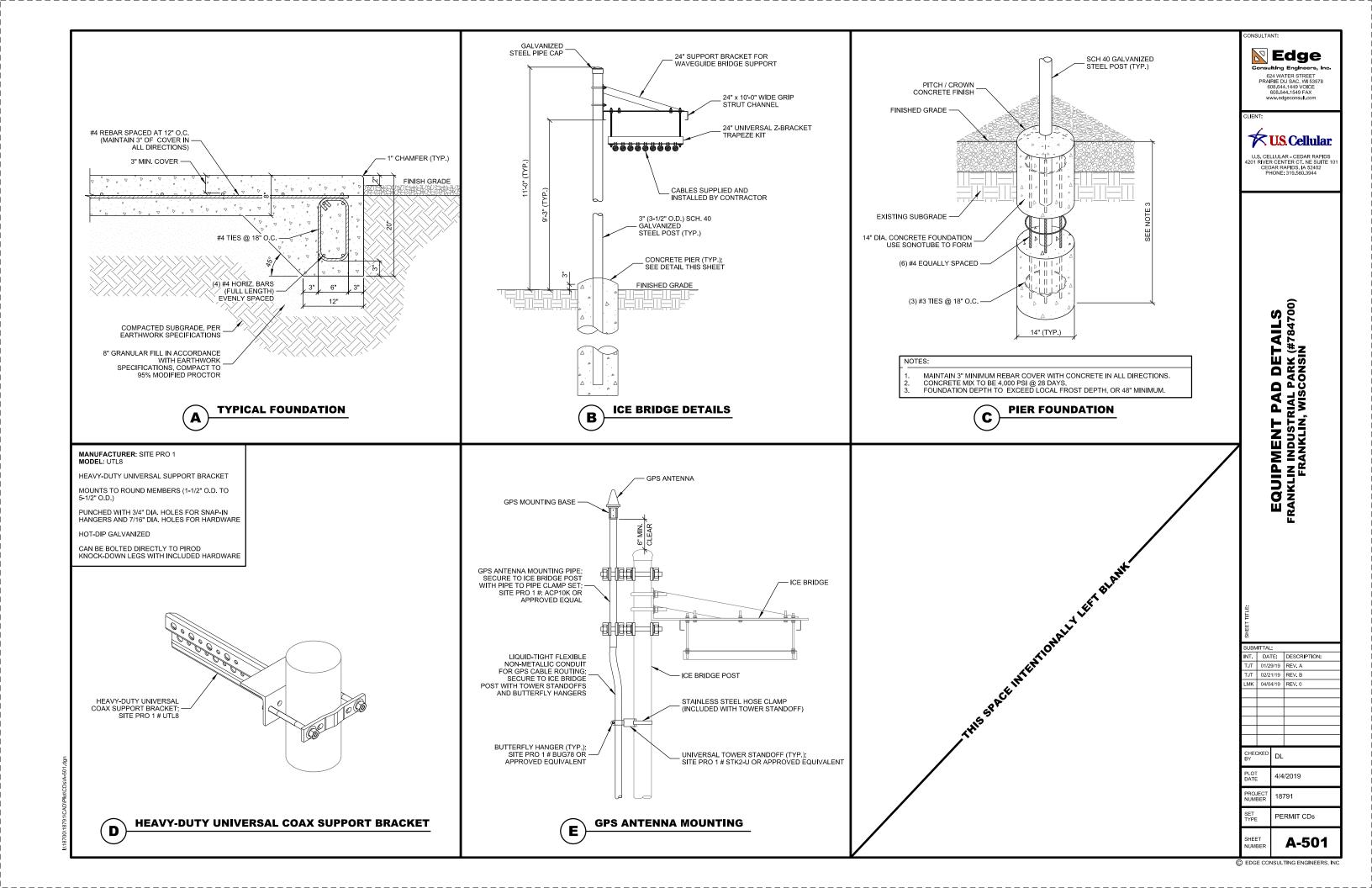
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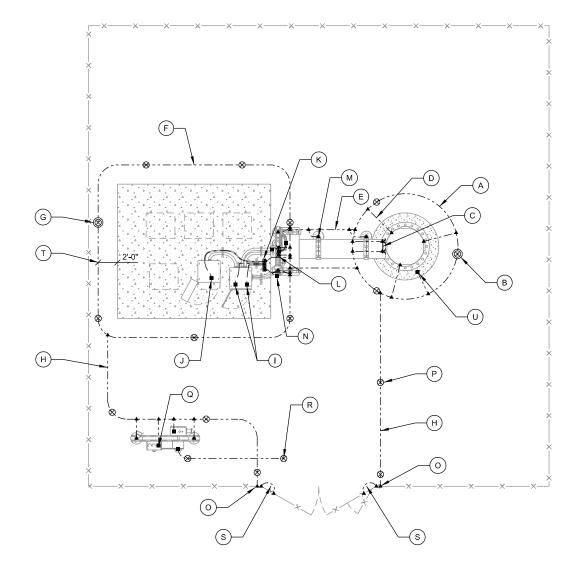


### **KEYNOTES: (THIS SHEET)**

- (A) TOWER GROUND RING, #2 SOLID TINNED COPPER
- (B) TOWER GROUND RING INSPECTION WELL; SEE E-502 FOR DETAIL
- TOWER GROUND BAR (TGB) WITH (2) GROUNDS FROM TGB TO TOWER GROUND RING; SEE E-501 FOR DETAIL
- GROUND LEAD FROM TOWER STEEL TO TOWER GROUND RING (TYP. OF 3); SEE E-501 FOR DETAIL
- GROUND LEAD FROM EQUIPMENT GROUND RING TO TOWER GROUND RING (TYP. OF 2), #2 SOLID TINNED COPPER
- (F) EQUIPMENT GROUND RING, #2 SOLID TINNED COPPER
- (G) EQUIPMENT GROUND RING INSPECTION WELL; SEE E-502 FOR DETAIL
- GROUND LEAD FROM GROUND RING TO FENCE POST; SEE E-502 FOR
- I TE FOUIPMENT CABINET GROUNDING: (1) LEAD FROM MASTER GROUND BAR TO GROUND BAR INSIDE RBS CABINET AND (1) LEAD FROM MASTER GROUND BAR TO RBS PLINTH, #2 INSULATED COPPER (TYP.): ROUTE THROUGH NEW PENETRATIONS AND LIQUID-TIGHT CONDUIT FITTINGS THROUGH BACK OF MOUNTING PLINTH
- (1) GROUND LEAD FROM BATTERY CABINET STEEL TO MASTER GROUND BAR, #2 INSULATED COPPER; ROUTE IN LIQUID TIGHT FLEXIBLE NON-METALLIC CONDUIT BETWEEN BATTERY CABINET AND LTE CABINET AND OUT NEW PENETRATION THROUGH SIDE OF LTE CABINET PLINTH
- MASTER GROUND BAR (MGB) MOUNTED HORIZONTALLY TO CONCRETE PAD ON INSULATIONS; (2) GROUNDS FROM MGB TO EQUIPMENT GROUND RING: SEE E-501 FOR DETAIL
- COLLECTOR GROUND BAR (CGB) MOUNTED TO UNISTRUT RACK ON INSULATORS; (2) CGB GROUNDS FROM CGB TO EQUIPMENT GROUND RING; SEE E-501 FOR JUNCTION BOX AND RAYCAP SPD GROUNDING
- $\begin{picture}(60,0)\put(0,0){\line(0,0){10}}\put(0,0){\line(0,0){10}$
- (N) GROUND GPS UNIT TO ICE CANOPY POST
- EXOTHERMIC CONNECTION AT FENCE POST;
   SEE SHEET E-502 FOR DETAIL
- (P) GROUND ROD (TYP.)
- GROUND UTILITY RACK CABINETS AND POSTS (TYP.), @ GROUND UTILITY TOOK OF W #2 SOLID TINNED COPPER
- GROUND ELECTRIC METER TO (2) INDEPENDENT GROUND RODS, SPACED 10' O.C. WITH #2 SOLID TINNED COPPER
- GATE GROUND LEAD GROUND LEADS TO GATE POST; SEE E-502 FOR DETAIL
- MAINTAIN 2' SEPARATION BETWEEN GROUND RINGS
- TOWER FOUNDATION GROUND, #2 SOLID TINNED COPPER;

### **NOTES: (THIS SHEET)**

- ALL EXTERIOR GROUNDING SHALL MEET OR EXCEED THE CURRENT NEC
- AND NFPA 780 CODE.
  THE GROUNDING SYSTEM & CONDUCTORS SHALL BE INSPECTED PRIOR TO BACK FILLING WITH RESULTS APPROVED BY THE CARRIER. THE SYSTEM SHALL PROVIDE 5 OHM OR LESS RESISTANCE UPON COMPLETION.
- HIGH COMPRESSION TYPE CONNECTORS SHALL BE USED FOR SECONDARY GROUNDING CONDUCTOR TO MAIN GROUNDING CONDUCTOR CONNECTIONS. AFTER INSPECTION CONNECTIONS SHALL BE WRAPPED WITH ELECTRICAL VINYL TAPE.
- ALL MECHANICAL CONNECTIONS SHALL INCLUDE ANTI-OXIDANT COMPOUND BETWEEN LUG & CONNECTION POINT. SCRAPE PAINT FROM OBJECT BEING CONNECTED TO. TOUCH UP PAINT ANY EXPOSED METAL
- AFTER CONNECTION IS INSTALLED.
  GROUNDING CONDUCTORS SHALL MAINTAIN, TO THE EXTENT PRACTICAL A HORIZONTAL OR DOWNWARD DIRECTION FREE FROM UP AND DOWN POCKETS. THE RADIUS OF BEND SHALL NOT BE LESS THAN 8" AND THE
- ANGLE OF ANY BEND SHALL NOT BE SHARPER (LESS) THAN 90°. THE MAXIMUM HORIZONTAL AND VERTICAL SPACING BETWEEN GROUNDING CONDUCTOR (NOT IN CONDUIT) SUPPORTS SHALL NOT
- IF A GROUNDING CONDUCTOR IS INSTALLED IN FERROUS METAL CONDUITS, THE CONDUCTOR SHALL BE BONDED TO THE TOP AND BOTTOM OF THE CONDUIT.
- ALL NON-INSULATED GROUND LEADS EXTENDING ABOVE GROUND LEVEL SHALL BE ENCASED IN 3/4" PVC & SEALED WITH SILICONE ON BOTH ENDS. ALL CADWELD CONNECTIONS SHALL BE COATED WITH ZINGA TO PREVENT
- CORROSION. GROUND RINGS & TOP OF RODS SHALL BE INSTALLED AT 30" BELOW FINISHED GRADE.
- INSTALL 18" x 18" COPPER PLATES IN LIEU OF GROUND RODS WHEN INSTALLING OVER TOWER FOUNDATION OR WHERE DRIVING GROUND RODS IS NOT FEASIBLE. REFER TO GEOTECH REPORT FOR SOIL



### **GROUNDING LEGEND: (THIS SHEET)**

— - - GROUND LEAD

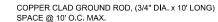


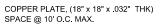
 $\otimes$ 

EXOTHERMIC OR UL RATED IRREVERSIBLE CONNECTION

MECHANICAL CONNECTION

GROUND INSPECTION WELL





NOTE:

. THE PROVIDED GROUNDING PLAN IS NOT SITE SPECIFIC AND IS MEANT TO REPRESENT A TYPICAL GROUNDING CONFIGURATION.

🔀 Edge 624 WATER STREET PRAIRIE DU SAC, WI 53578



U.S. CELLULAR - CEDAR RAPIDS 4201 RIVER CENTER CT. NE SUITE 1 CEDAR RAPIDS, IA 52402 PHONE: 319.560.3944

GROUNDING PLAN
KLIN INDUSTRIAL PARK (#784700)
FRANKLIN, WISCONSIN

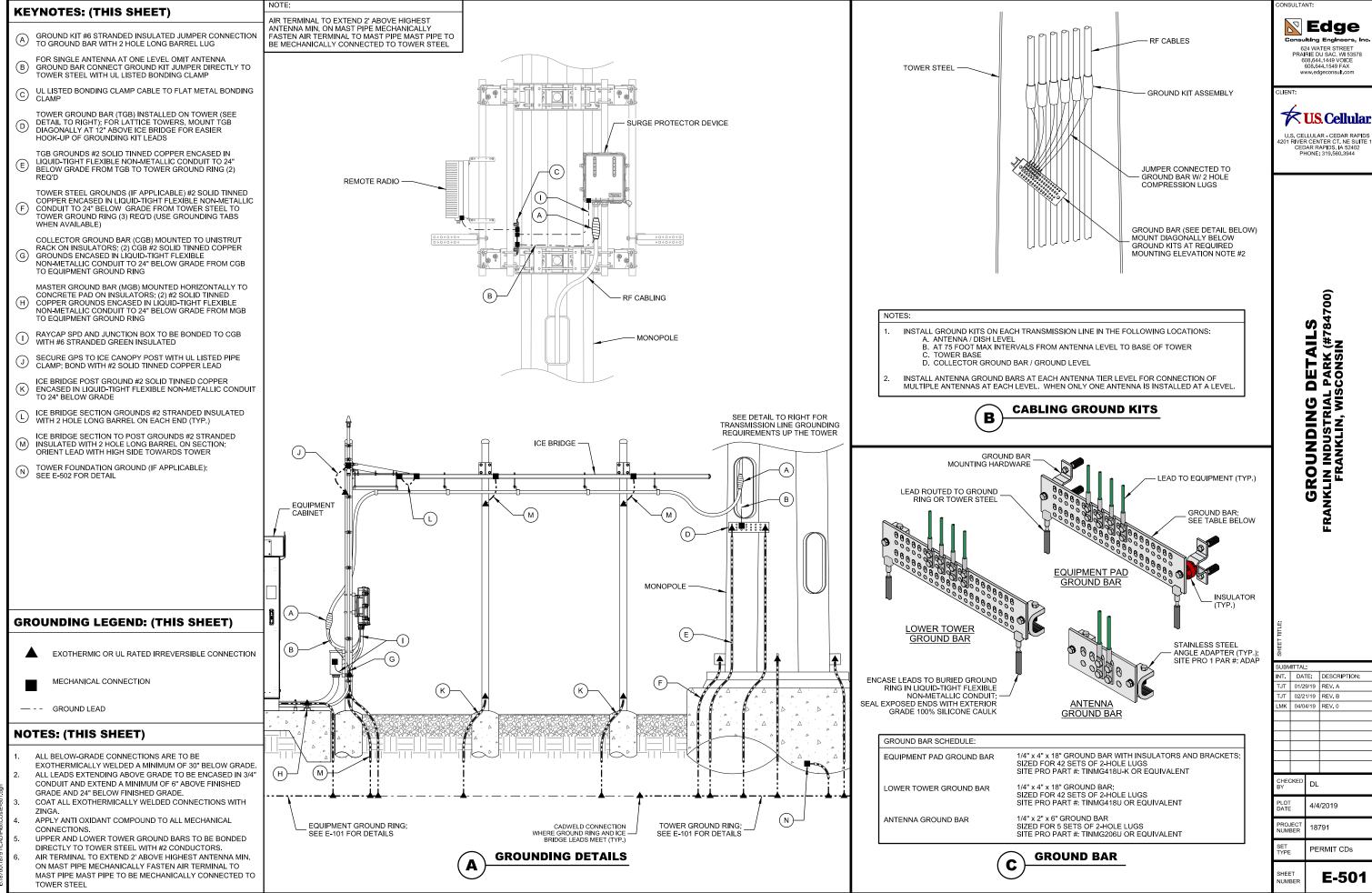
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4/4/2019 18791

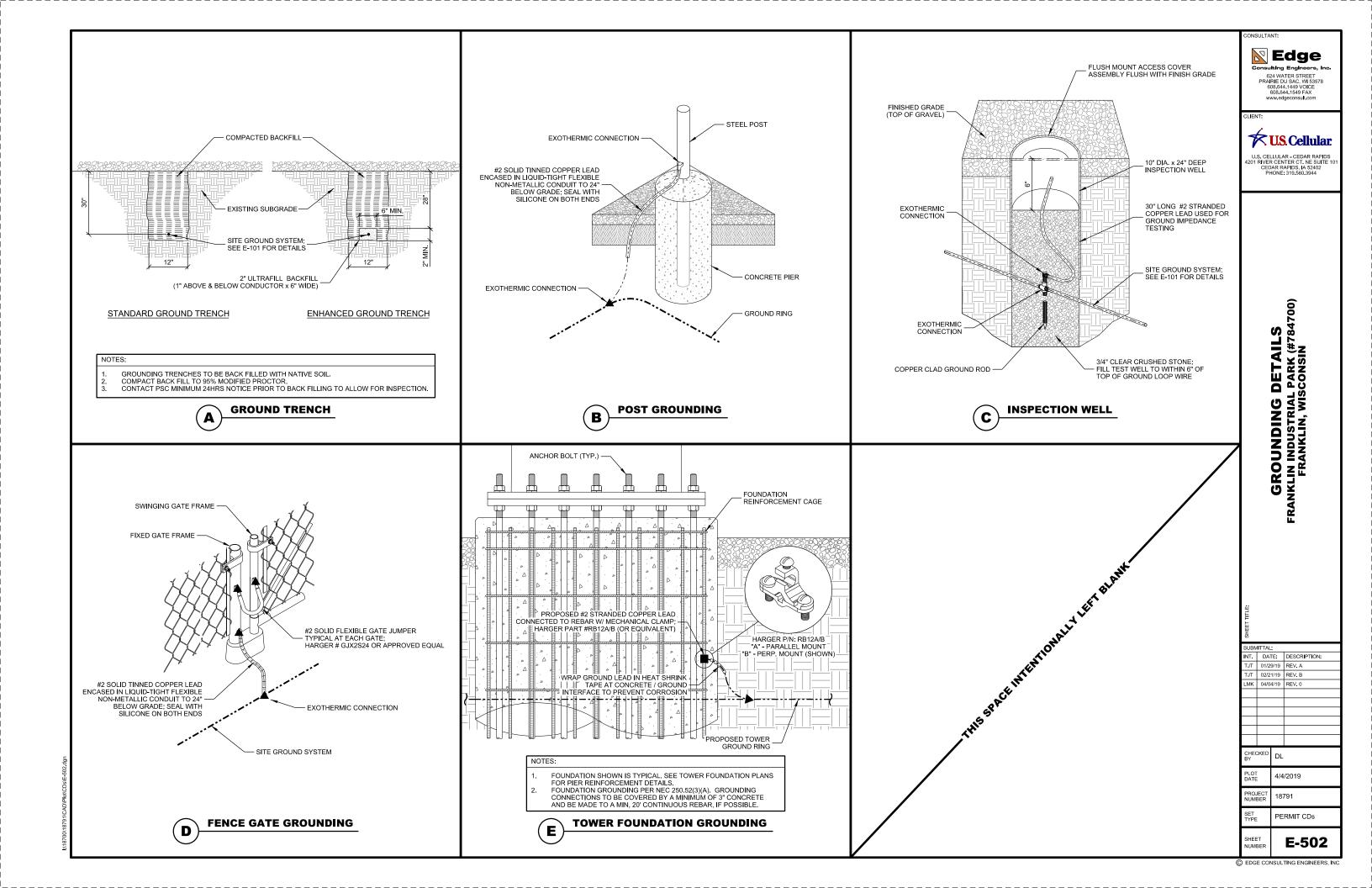
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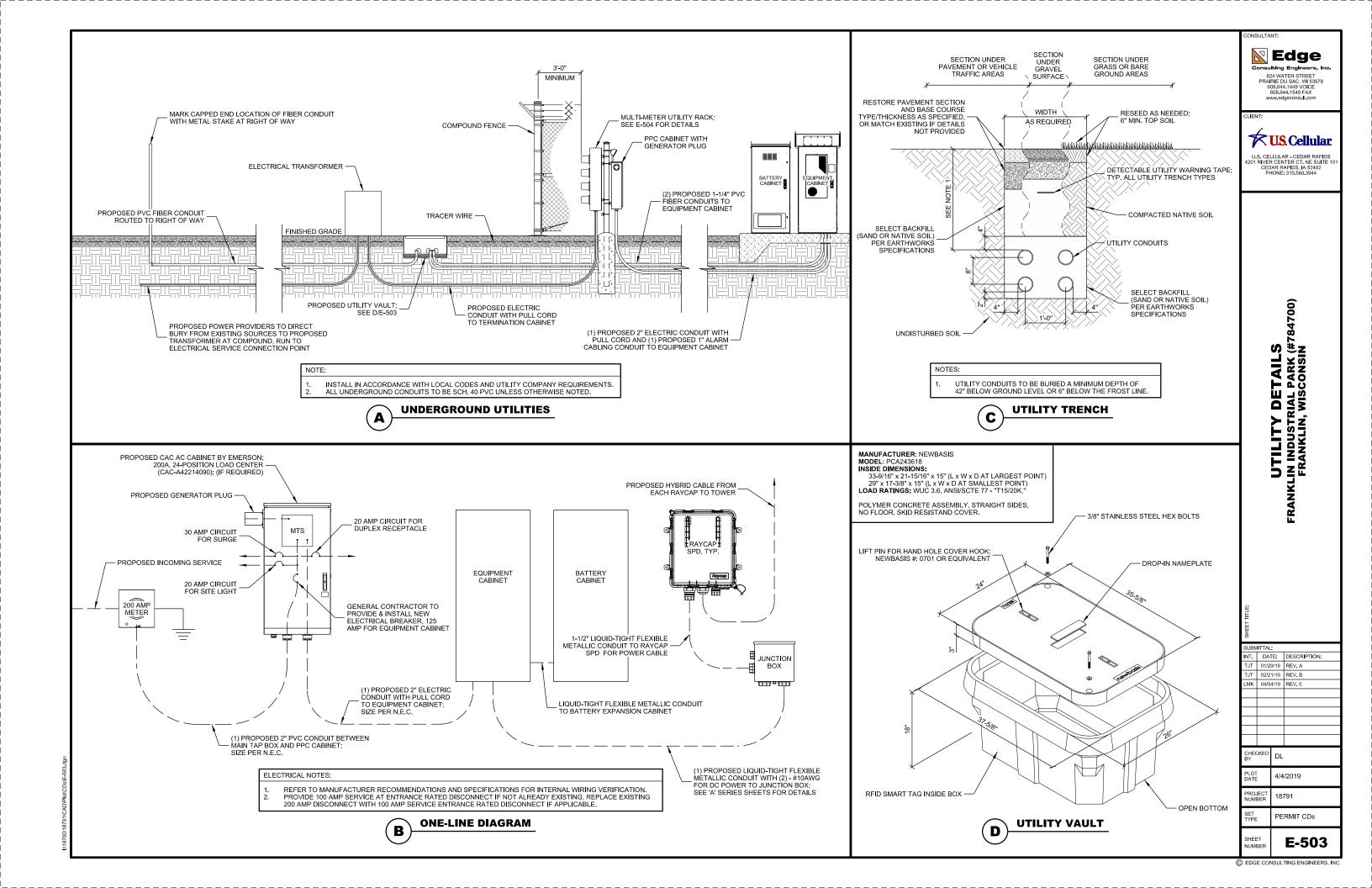
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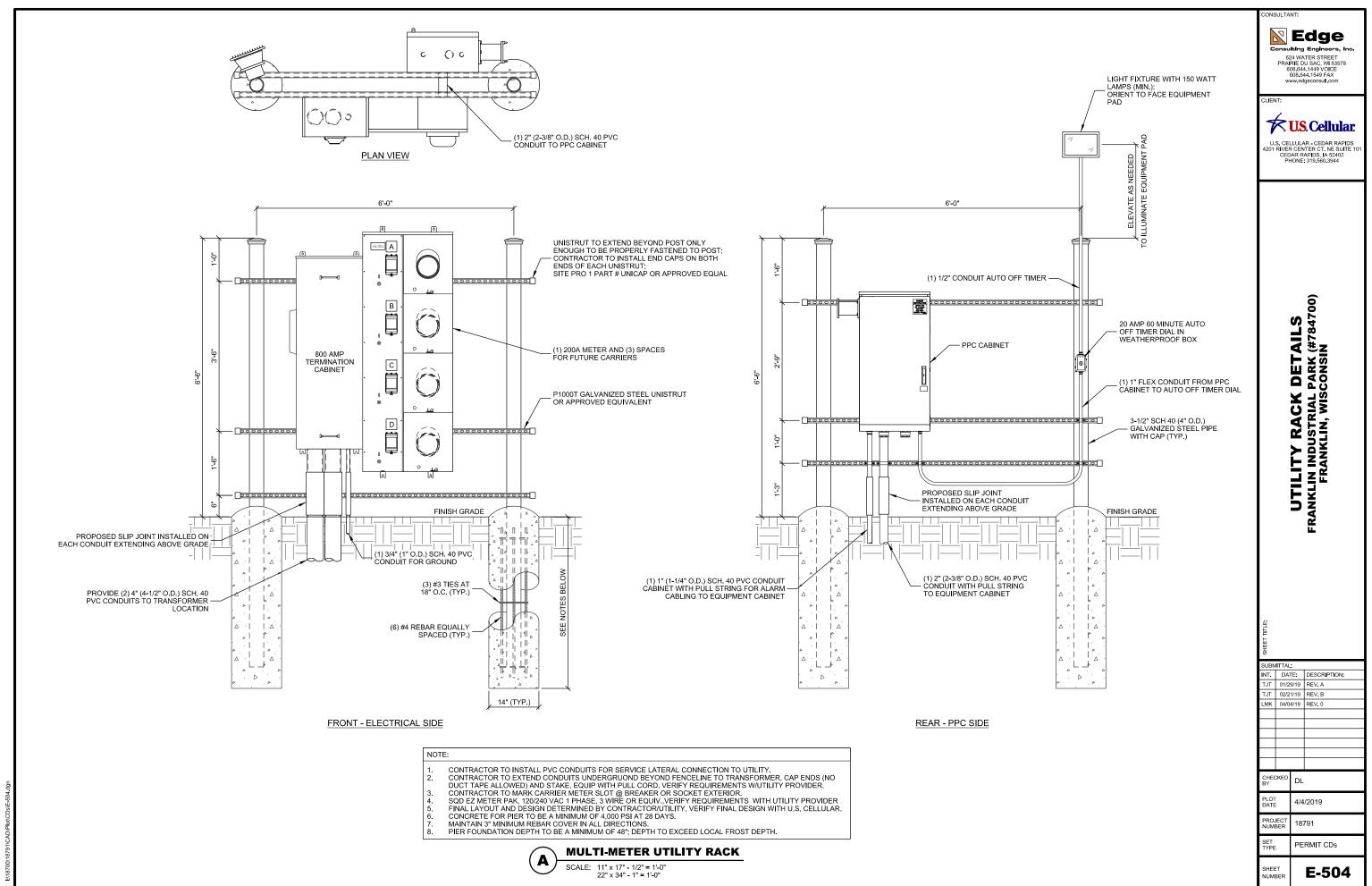
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## CITY OF FRANKLIN

### REPORT TO THE PLAN COMMISSION

## Meeting of June 6, 2019

# **Certified Survey Map**

**RECOMMENDATION:** City Development Staff recommends approval of the Certified Survey Map for Wyndham Homes, LLC, subject to the conditions as noted in the attached draft resolution.

**Project Name:** Wyndham Homes, LLC

**Project Location:** 3031 West Forest Hill Avenue (Tax Key No: 832-9901-

000)

**Property Owner:** Wyndham Homes, LLC **Applicant:** Wyndham Homes, LLC

**Agent:** Daniel A. Kanitz, Wyndham Homes, LLC

**Current Zoning:** R-3, Suburban/Estate Single-Family Residence District

**2025 Comprehensive Plan:** Residential

**Use of Surrounding Properties:** Single-family residential to the north, south, east and west.

**Applicant's Action Requested:** Recommendation of approval of the CSM

### **Project Description/Analysis:**

On February 22, 2019, the applicant submitted an application for a Certified Survey Map. The property is located at 3031 West Forest Hill Avenue and has one existing residence upon it and is zoned as R-3, as are the surrounding properties. The applicant desires to split the lot one time to create two single-family residential lots, each at 125 feet in width and 108,208 square feet (2.48 acres) in size. Proposed Lot 1 has an existing single-family residence located upon it.

There is exsiting sanitary sewer along Forest Hill Avenue. There is no public water service available nearby and applicant will need to request the public water main be extended. If denied by the City, a well system would need to be approved through the City Engineering office.

There are deficiencies in the supplied NRPP map, which excludes a delineation of the wetlands noted in the supplied report completed by One Source Consulting, dated February 18, 2019. There are numerous conditions of approval relating to meeting the NRPP requirements of the City of Franklin UDO proposed by staff as conditions of approval in the supplied resolution.

# **Staff Recommendation:**

City Development Staff recommends approval of the Certified Survey Map, subject to the conditions as noted in the attached draft resolution.

### CITY OF FRANKLIN

MILWAUKEE COUNTY [Draft 5-31-19]BK

RESOLUTION NO. 2019-\_\_\_\_

A RESOLUTION CONDITIONALLY APPROVING A 2 LOT CERTIFIED SURVEY MAP, BEING A PART OF THE SOUTHEAST 1/4 OF THE SOUTHEAST 1/4 OF SECTION 13, TOWNSHIP 5 NORTH, RANGE 21 EAST, IN THE CITY OF FRANKLIN, MILWAUKEE COUNTY, WISCONSIN (WYNDHAM HOMES LLC, OWNER) (3031 WEST FOREST HILL AVENUE)

WHEREAS, the City of Franklin, Wisconsin, having received an application for approval of a certified survey map, such map being a part of the Southeast 1/4 of the Southeast 1/4 of Section 13, Township 5 North, Range 21 East, in the City of Franklin, Milwaukee County, Wisconsin, more specifically, of the property located at 3031 West Forest Hill Avenue, bearing Tax Key No. 832-9901-000, Wyndham Homes LLC, applicant; said certified survey map having been reviewed by the City of Franklin Plan Commission and the Plan Commission having recommended approval thereof pursuant to certain conditions; and

WHEREAS, the Common Council having reviewed such application and City of Franklin Plan Commission recommendation, and the Common Council having determined that such proposed certified survey map is appropriate for approval pursuant to law upon certain conditions.

NOW, THEREFORE, BE IT RESOLVED, by the Mayor and Common Council of the City of Franklin, Wisconsin, that the Certified Survey Map submitted by Wyndham Homes LLC, as described above, be and the same is hereby approved, subject to the following conditions:

- 1. That any and all objections made and corrections required by the City of Franklin, by Milwaukee County, and by any and all reviewing agencies, shall be satisfied and made by the applicant, prior to recording.
- 2. That all land development and building construction permitted or resulting under this Resolution shall be subject to impact fees imposed pursuant to §92-9. of the Municipal Code or development fees imposed pursuant to §15-5.0110 of the Unified Development Ordinance, both such provisions being applicable to the development and building permitted or resulting hereunder as it occurs from time to time, as such Code and Ordinance provisions may be amended from time to time.
- 3. Each and any easement shown on the Certified Survey Map shall be the subject of separate written grant of easement instrument, in such form as provided within the *City of Franklin Design Standards and Construction Specifications* and such form

#### WYNDHAM HOMES LLC – CERTIFIED SURVEY MAP RESOLUTION NO. 2019-\_\_\_\_ Page 2

and content as may otherwise be reasonably required by the City Engineer or designee to further and secure the purpose of the easement, and all being subject to the approval of the Common Council, prior to the recording of the Certified Survey Map.

- 4. Wyndham Homes LLC, successors and assigns, and any developer of the Wyndham Homes LLC 2 lot certified survey map project, shall pay to the City of Franklin the amount of all development compliance, inspection and review fees incurred by the City of Franklin, including fees of consults to the City of Franklin, within 30 days of invoice for same. Any violation of this provision shall be a violation of the Unified Development Ordinance, and subject to §15-9.0502 thereof and §1-19. of the Municipal Code, the general penalties and remedies provisions, as amended from time to time.
- 5. The approval granted hereunder is conditional upon Wyndham Homes LLC and the 2 lot certified survey map project for the property located at 3031 West Forest Hill Avenue: (i) being in compliance with all applicable governmental laws, statutes, rules, codes, orders and ordinances; and (ii) obtaining all other governmental approvals, permits, licenses and the like, required for and applicable to the project to be developed and as presented for this approval.
- 6. Applicant shall submit to the Community Development Department a revised Natural Resource Protection Plan Map, and labeled as such, and meeting requirements of the UDO, showing wetland areas mentioned in the Natural Resource Protection Plan along the roadway, prior to recording of the CSM.
- 7. Applicant shall show all wetlands, wetland buffers, wetland setbacks on the face of the CSM as mentioned in the NRPP report dated February 18, 2019 from One Source Consulting, and in the office of the Community Development Department prior to recording of the CSM.
- 8. Applicant shall supply a letter from the Wisconsin Department of Natural Resources and the United States Army Corps of Engineers to the City Development Department stating if wetlands are present within the property limits of the proposed CSM and under their jurisdiction and if they are under their jurisdiction, then wetlands would need to be delineated on the face of the CSM, per the UDO requirements, prior to recording of the CSM.
- 9. Applicant shall apply for a Natural Resource Special Exception prior to any new or altered driveway installations which may go through any delineated wetlands prior to building permit issuance of a new single-family residence.

#### WYNDHAM HOMES LLC – CERTIFIED SURVEY MAP RESOLUTION NO. 2019-\_\_\_\_ Page 3

- 10. Applicant shall submit to the Community Development Department a revised Natural Resource Protection Plan Map showing qualified woodland areas mentioned in the Natural Resource Protection Plan along the rear of the property, or, if the woodlands present on the property do not qualify for a mature or young woodland, a statement from a certified Arborist, or equivalent, shall attest in written format how the woodlands do not qualify due to not meeting the definitions of young or mature woodlands, prior to recording of the CSM.
- 11. Applicant shall submit to the Community Development Department a Conservation Easement document to include any applicable Natural Resource Protection elements including, but not limited to, wetlands and woodlands which qualify per the UDO, prior to recording of the CSM.
- 12. Applicant shall show on the face of the CSM language that a new single-family residence may be subject to a greater front yard setback in areas where greater than required front yard setback is required per the City of Franklin Unified Development Ordinance prior to recording of the CSM.

#### 13. [other conditions, etc.]

BE IT FURTHER RESOLVED, that the Certified Survey Map, certified by owner, Wyndham Homes LLC, be and the same is hereby rejected without final approval and without any further action of the Common Council, if any one, or more than one of the above conditions is or are not met and satisfied within 180 days from the date of adoption of this Resolution.

BE IT FINALLY RESOLVED, that upon the satisfaction of the above conditions within 180 days of the date of adoption of this Resolution, same constituting final approval, and pursuant to all applicable statutes and ordinances and lawful requirements and procedures for the recording of a certified survey map, the City Clerk is hereby directed to obtain the recording of the Certified Survey Map, certified by owner, Wyndham Homes LLC, with the Office of the Register of Deeds for Milwaukee County.

	LUTION N		– CERTIFIED ——	SURVEY I	MAP
		•	ar meeting of		n Council of the City of Franklin this
Frankl		_	at a regular r f	-	he Common Council of the City of 2019.
				APPI	ROVED:
				Steph	nen R. Olson, Mayor
ATTE	ST:				
Sandra	a L. Wesolo	wski, City	Clerk	_	
AYES	NC	DES	ABSENT		

#### **Benjamin Kohout**

From: Benjamin Kohout

**Sent:** Tuesday, May 28, 2019 10:33 AM

**To:** Gail Olsen; Joel Dietl

**Subject:** FW: 3031 W. Forest Hill - Wyndham Homes CSM for June 6 agenda

FYI.

#### Ben Kohout, AICP

Principal Planner
City of Franklin
9229 W. Loomis Rd.
Franklin, WI 53132
O: (414) 425-4024
bkohout@franklinwi.gov
City of Franklin Planning Website



From: Wyndham Homes <wyndhamhomeswi@gmail.com>

Sent: Tuesday, May 28, 2019 10:28 AM

To: Benjamin Kohout < BKohout@franklinwi.gov>

Subject: 3031 W. Forest Hill

#### Ben

We agree to your terms and conditions that need to be met and items that need further evaluations that will take time to complete.

I am working with DNR for Culverts, I am working with Arborist to prepare woodland survey site field report.

12 copies dropped off Friday for June 6 Planning Commission meeting

Dan Kanitz

Wyndham Homes

#### City of Franklin Department of City Development

Date: April 26, 2019

To: Wyndham Homes, LLC From: City Development Staff

RE: Wyndham Homes, LLC Certified Survey Map – Staff Comments

Please be advised that City Staff has reviewed the above application for the property located at 3031 West Forest Hill Avenue. Department comments are as follows for the Certified Survey Map Application submitted by Wyndham Homes, LLC and date stamped by the City of Franklin on February 22, 2019.

#### **Unified Development Ordinance (UDO) Requirements**

#### General

1. There is a wooded area at the rear of the subject property, which includes a large wetland according to the 2005 Wisconsin Wetland Inventory. Attached, please find a map of the property identifying the boundary of the wetland according to the 2005 Wisconsin Wetland Inventory. A Natural Resource Protection Plan including a field delineation conducted by a qualified environmental consultant will be required to determine whether or not a wetland or woodland, in accordance with Division 15-4.0100 of the UDO, exist on the property.

#### **Certified Survey Map**

- 2. Please graphically depict all required wetland buffers and wetland setbacks per Section 15-7.0702-B of the UDO.
- 3. Please remember to indicate all dates of revision per Section 15-7.0702-H of the UDO.
- 4. Please graphically indicate the location of any conservation easements per Section 15-7.0702-P of the UDO.
- 5. Please submit a Natural Resource Protection Plan (NRPP) as required by Section 15-7.0702-Q, and Section 15-9.0309-D of the UDO. The NRPP shall meet the requirements of Division 17-7.0200 of the UDO.

#### **Natural Resource Protection Plan**

- 1. Please indicate the proposed name of the development, project, Certified Survey Map, subdivision plat, or condominium per Section 15-7.0201-A of the UDO.
- 2. Please indicate the location of the proposed development, project, Certified Survey Map, subdivision plat, or condominium per Section 15-7.0201-B of the UDO.

- 3. Please indicate the names, address and telephone number of the owner per Section 15-7.0201-C of the UDO.
- 4. Please include the date of the Natural Resource Plan submittal and all applicable revision dates per Section 15-7.0201-D of the UDO.
- 5. Please show the site boundary line of the site with dimensions using a solid line. Also, indicate the total land area encompassed by the site per Section 15-7.0201-E of the UDO.
- 6. Please show the location of all proposed lot lines, right-of-way lines and easements per Section 15-7.0201-F of the UDO.
- 7. Please show the location, ownership, widths, and names of all existing and previously platted streets, right-of-ways, parks, and other public or open spaces location within or adjacent to the subject property per Section 15-7.0201-G of the UDO.
- 8. Please show the location and dimensions of all easements and neighboring property boundary lines per Section 15-7.0201-H of the UDO.
- 9. Per Section 15-7.0201-I of the UDO, please provide the location and extent of existing natural resource features as defined by Divisions 15-4.0100 and 15-11.0100.
- 10. Please graphically and numerically depict those natural resource features that will be disturbed and those that will be preserved per Section 15-7.0201-J of the UDO.
- 11. Per Section 15-7.0201-K of the UDO, please provide a graphic illustration and notes relating those natural resource features, which are to be preserved, will actually be preserved in perpetuity using conservation easements, deed restrictions, protective covenants, etc.
- 12. Please provide a drawing legend containing the scale of the drawing, date of preparation, north arrow, and existing and proposed contours (two foot intervals) per Section 15-7.0201-L of the UDO.
- 13. Please reduce the sheet size for the Natural Resource Protection Plan to a size less than or equal to the site plan per Section 15-7.0201-M of the UDO.

#### **Staff Recommendations**

#### **Certified Survey Map**

14. Please indicate the owners and existing zoning of the adjacent properties.: R-3 Suburban/Estate Single-Family Residence District

#### Natural Resource Protection Plan (NRPP)

- 15. The applicant shall indicate all Natural Resource Features not impacted by development in Conservation Easements. Please provide Conservation Easement Documents and Exhibits for City Staff review. Attached, please find the City's Conservation Easement template.
- 16. Please clarify through the assured wetland delineator, Dave Meyer, if there are other wetlands or other areas of natural resources on the property other than the referenced roadside ditch on page one (NRPP dated February 18, 2019 from One Source Consulting).

#### Other

- 17. Please submit a lot coverage calculation for Lot 1 of the proposed Certified Survey Map to prove the newly created lot will be in compliance with the 15% maximum lot coverage (maximum percent of lot area) of the R-3 District.
- 18. It appears at one time there was a small accessory structure located along the south lot line of the proposed Lot 1. Has this accessory structure been removed? If not, the shed would need to be permitted or razed along with the existing residence, as zoning requirements do not permit a stand-alone accessory structure on R zoned properties without a residence. Contact the Building Inspections office at 414-425-0084 with this requirement.
- 19. Please note a new single-family residence on Lot 2 may be subject to Section 15-2.0203-B Determination of Average Front Yard Setback in Areas Where Greater than Required Front Yard Setback is Provided, of the UDO.

#### **Engineering Staff Comments**

20. Please see the attached Engineering Department comments.

#### **Fire Department Staff Comments**

21. The Fire Department has no concerns with the proposed lot division.

#### **Police Department Staff Comments**

22. The Franklin Police Department has no concerns with reference to the application for a Certified Survey Map to divide an existing lot into two separate lots. The location is 8473 S. 47<sup>th</sup> St. Lot 1 will be 1.14 acres, and lot 2 will be .98 acres.

#### **Milwaukee County Comments**

23. Please see the attached comment from the Milwaukee County Register of Deeds Office.

#### Franklin

**Planning Department** 9229 West Loomis Road Franklin, Wisconsin 53132



Phone: (414) 425-4024 Fax: (414) 427-7691

Web Site: www.franklinwi.gov

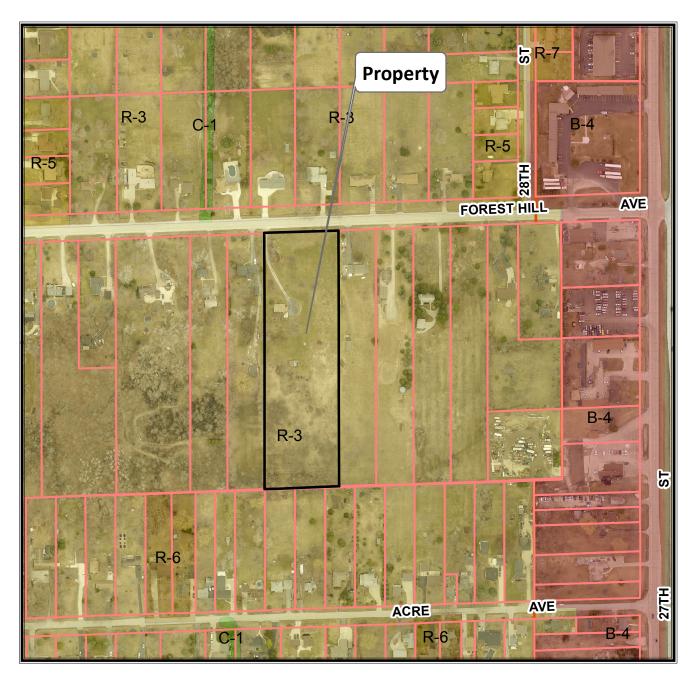
Date of Application:	

### CERTIFIED SURVEY MAP (CSM) APPLICATION Complete accurate and specific information must be entered. Place Print

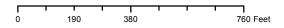
Complete, accurate and specific inform	nation must be enterea. <u>Please Print.</u>
Applicant (Full Legal Name[s]): Name: Wyndham Hames LLC	Applicant is Represented by: (contact person)(Full Legal Name[s])  Name: Danie A. Kanitz
Company: Wyndham Homes	Company: Wyndham Homes
Mailing Address: 5665 S. 108th St.	Mailing Address: 5665 5-108 + 754
City/State: HALESGRNERS, WI Zip: 53130	City/State: HALES CORNERS, WI Zip: 53136
Phone: 414 881 2707	Phone: 414 881 2707
Email Address: wyndhamhomes wieg mail, com	Email Address: Wyncham homes wiegmailrom
Project Property Information:  Property Address: 3031 W. FOREST Hill AVE  Property Owner(s): Wyndham Homes	Tax Key Nos: 832 9901 000
1.056.1) 0.11.0.1(4).	Existing Zoning: R-3 Soborban/estate Stasle fam)
Mailing Address: 5665 S. 108 th St.	Existing Use: R-3 subustion 185 tale congleta unity
City/State: HALES CORNERS WI Zip: 53130	Proposed Use: R-3 suburlan lestate single Amili
Email Address: wyndham hom es wi agmail.com	
*The 2025 Comprehensive Master Plan Future Land Use Map is available	
Certified Survey Maps shall be prepared as provided in § 236.34 (1m) (c) Wis.	Stats. and Division 15-7.0700 of the Unified Development Ordinance.
Certified-Survey Map submittals for review must include and be accompanied	by the following:
Milwaukee County Review Fee, payable to Milwaukee County Register of D	
Two (2) original map copies for Milwaukee County review, prepared at	
This Application form accurately completed with original signature(s). Facs	imiles and copies will not be accepted.
Application Filing Fee, payable to City of Franklin: \$1,500	
Seven (7) complete sets of Application materials, for City of Franklin review	to include:
Project Summary: a written detailed description of the project: One (1)	
Map Copies: One (1) original map copy and six (6) map copies prepare	
As may be required, seven (7) copies of a "Natural Resource Protection Plan	
If applicable, three (3) copies of the Natural Resource Protection report (se	
If applicable, one copy of the Site Intensity and Capacity Calculations (see D	
Email (or CD ROM) with all plans and submittal materials in Adobe PDF. (M	lay be waived by City Planner.)
<ul> <li>Upon receipt of a complete submittal, staff review will be conduct</li> <li>All Certified Survey Map requests require Plan Commission review</li> </ul>	· · · · · · · · · · · · · · · · · · ·
•All Certified Survey Map requests shall comply with Chapter 236 o	f the Wisconsin State Statutes.
The applicant and property owner(s) hereby certify that: (1) all statements and	
to the best of applicant's and property owner(s)' knowledge; (2) the applicant	
application; and (3) the applicant and property owner(s) agree that any applicant and property owner(s) agree that any applicant and property owner(s) agree that any applicant are stated as a state of the state of	
submittal, and any subsequently issued building permits or other type o representation(s) or any condition(s) of approval. By execution of this applicat	
enter upon the subject property(ies) between the hours of 7:00 a.m. and 7:00	
The property owner(s) grant this authorization even if the property has been po	
(The applicant's signature must be from a Managing Member if the busin	ess is an LLC, or from the President or Vice President if the business is a
corporation. A signed applicant's authorization letter may be provided in	lieu of the applicant's signature below, and a signed property owner's
authorization letter may be provided in lieu of the property owner's signature	e[s] below. If more than one, all of the owners of the property must sign this
Application).	
Wyndrem tomes LLC	
	Signature - Applicant
Signature-Property when Henry member wy rohum Homes Lic	DANVIEL A. KANITE G
Name & Title (PRINT) Date: 220-2019	Name & Title (PRINT)  Date: 2-20-2019
	Date:
Jemes Jans	Circles As Provide December 2
Signature-Property Owner ANITZ	Signature - Applicant's Representative
Name & Title (PRINT)	Name & Title (PRINT)
Date: Date:	Date:



# 3031 W. Forest Hill Ave. TKN 832 9901 000



Planning Department (414) 425-4024

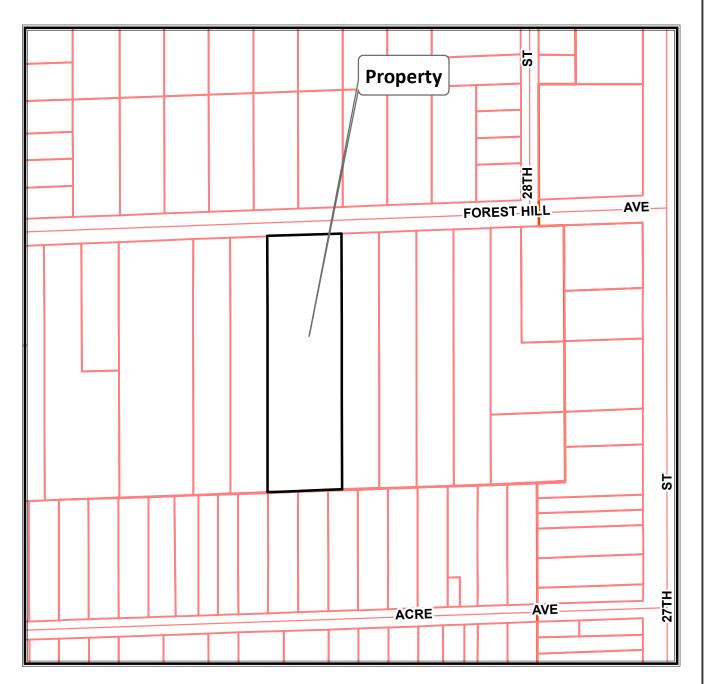


NORTH 2017 Aerial Photo

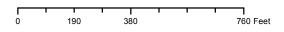
This map shows the approximate relative location of property boundaries but was not prepared by a professional land surveyor. This map is provided for informational purposes only and may not be sufficient or appropriate for legal, engineering, or surveying purposes.



# 3031 W. Forest Hill Ave. TKN 832 9901 000



Planning Department (414) 425-4024



NORTH 2017 Aerial Photo

This map shows the approximate relative location of property boundaries but was not prepared by a professional land surveyor. This map is provided for informational purposes only and may not be sufficient or appropriate for legal, engineering, or surveying purposes.



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PHONE: (262) 781-9005 www.onesourceconsuit.com

# City of Franklin - Natural Resource Protection Plan for 3031 W. Forest Hill Ave.

February 18, 2019

Wyndham Homes is proposing two single family residential homes at 3031 W. Forest Hill Avenue in the City of Franklin. The development is located on a 4.96 acre parcel on the south side of W. Forest Hill Avenue and west of S. 27<sup>th</sup> Street (SW 1/4 of the SE 1/4 of Section 13, T5N R21 E). A study area was developed and extends not less than 50 feet beyond the planned disturbance limits associated with the construction of two single family homes with associated driveways and site grading.

There is one wetland within the study area that is associated with the roadside ditch running along the south side of W. Forest Hill Avenue across the width of the property. The wetlands were field delineated by Dave Meyer, a WDNR assured delineator. No other natural resources were identified within the study area by Dave Meyer, Wetland and Waterway Consulting.



Photograph 1 (Sept 2018): Looking north from W. Forest Hill Ave.



Photograph 1 (Sept 2018): Looking north from W. Forest Hill Ave.

#### NATURAL RESOURCE PROTECTION PLAN

A wetland buffer of 30' and a wetland setback of 50' will be maintained to preserve the wetland ditch as shown on the Plat of Survey. The total area of wetland setback area is 0.29 acres.

A wetland impact of 60 square feet for installation of each driveway culvert as required by the City of Franklin for access to the properties is anticipated. The total wetland impact will not exceed 120 square feet. This impact will occur within the study area, but outside of the parcel boundary within the W. Forest Hill Avenue right-of-way.

A wetland buffer impact of 1,500 square feet for the installation of each driveway is anticipated. The total wetland buffer impact will not exceed 3,000 square feet.

The natural resources will be protected with an increased front setback of 50 feet. No other permanent protection measures are proposed since the wetland is located within the City of Franklin's right-of-way for W. Forest Hill Avenue.

#### **MITIGATION**

For this residential development, the applicant will apply for a special exception for wetland disturbance and wetland buffer disturbance with no proposed mitigation for the wetland ditch impacts.

#### SITE INTENSITY SUMAMRY

In accordance with Section 15-3.0504 the "Site Intensity and Capacity for Residential Uses", the Maximum Number of Permitted Development Units for the parcel is 13 residential dwelling units. There are 0.29 acres of natural resource features which have been designated for protection.

#### ATTACHMENTS:

- Natural Resource Protection Plan Checklist
- Plat of Survey with Natural Resource Features
- Wetland Delination Report Dated February 2, 2019

This natural resource protection plan has been prepared thru the collaborative efforts of Dave Meyer, Wetland and Waterway Consulting; Craig Donze, One Source Consulting and Metropolitan Survey Service.

		NATURAL RESOURCE PROTECTION PLAN CHECKLIST for 3031 W. Forest Hill Avenue	
Staff Use	Complete or NA	Natural Resources that must be Identified, Measured, Graphically Depicted	Ordinance #
	None	Steep Slopes, measured & graphically Indicated	15-4.0102-A
	None	Woodlands and Forests, as defined, measured & graphically indicated	15-4.0102-B
	None	Lakes and Ponds, measured & graphically Indicated	15-4.0102-C
	None	Streams, measured & graphically Indicated	15-4.0102-D
	None	Shore Buffers, measured & graphically Indicated	15-4.0102-E
	None	Floodplain(s), Floodway(s) & Floodland(s), measured & graphically Indicated	15-4.0102-F
	None	Drainageways (as defined in the City of Franklin Unified Development Ordinance), measured & graphically indicated	15-4.0102-G
	Yes	Wetlands and Shoreland Wetlands, measured & graphically Indicated	15-4.0102-H
	Yes	Project Name	15-7.0201-A
	Yes	Location (physical address and/or Section - 1/4 Section information)	15-7.0201-B
	Yes	Scale, North Arrow, Contours (2' interval)	15-7.0702-L
	Yes	Names, Addresses, Telephone #s of Owners, Subdividers, Lessee & Developer	15-7.0201-C
	Yes	Date and all applicable revision dates	15-7.0201-D
	Yes	Site Boundary	15-7.0201-E
	Yes	Lot Lines, Right-of-Way lines and Easements	15-7.0201-F
	Yes	Existing Streets	15-7.0201-G
	None	Easements along property boundaries adjacent to the site	15-7.0201-H
	Yes	Location and extent of existing Natural Resource features	15-7.0202-I
	Yes	Disturbed and Preserved Nat. Resource Features (shown graphically and in	
	res	numerical sequence on plan)	15-7.0702-J
	Yes	Method of Natural Resource Preservation (Conservation Easement)	15-7.0702-K
	Yes	Site Intensity Calculations	15-7.0702-N
	Yes	Mitigation Plan (See attached pages)	15-4.0103
	Yes	Name of Person Performing Wetland Delineation Date of Wetland Delineation	
	Yes	50 Wetland Building Setback Lines, identified & dimensioned	
	None	75 Shoreland Buffer Areas, identified & dimensioned	

	Craig Donze, PE PLS
Signature of the	person preparing this checklist

Staff Notes Review	iewer's Initials
--------------------	------------------

Wyndham Homes, LLC.

West Forest Hill Avenue, Franklin, Wisconsin LOCATION:

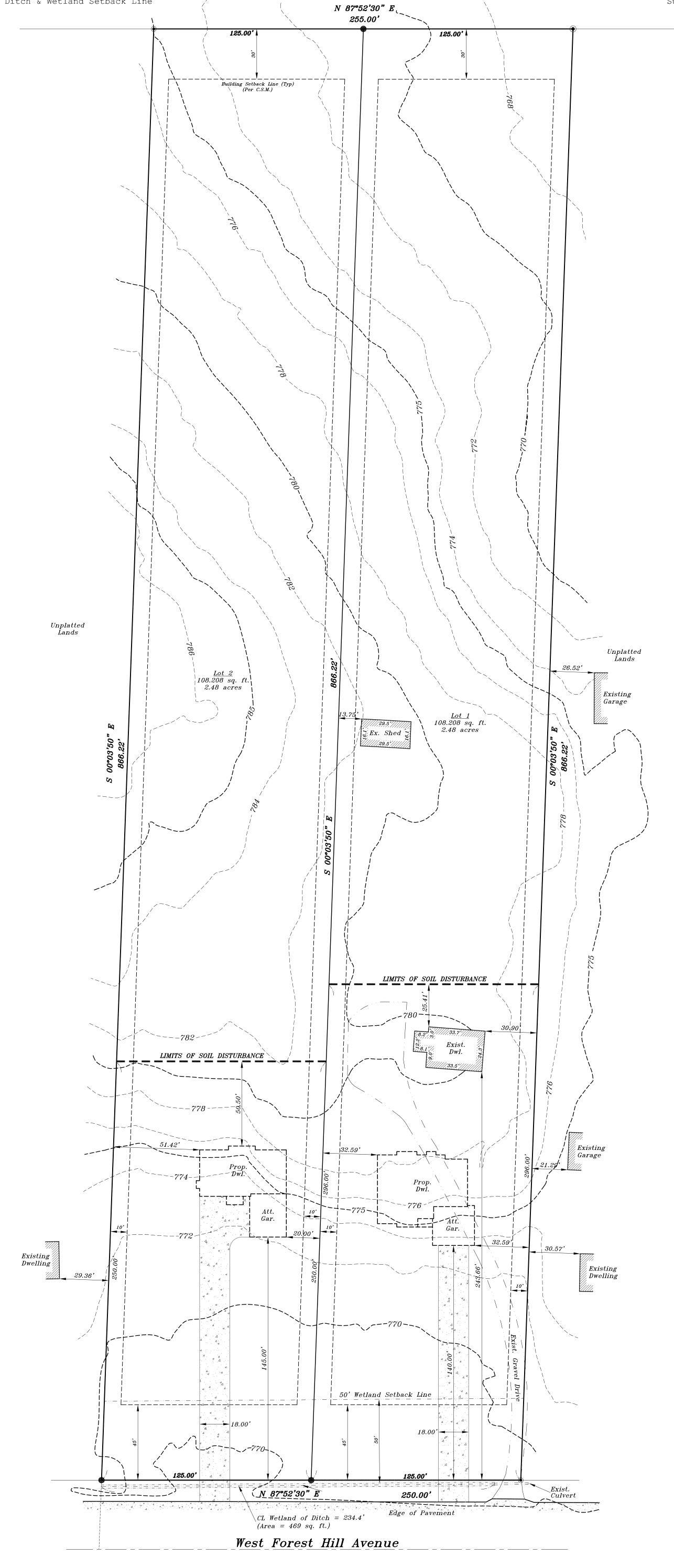
LEGAL DESCRIPTION:

CERTIFIED SURVEY MAP NO. \_\_\_\_\_, being a part of the Southwest 1/4 of Section 13, Township 5 North, Range 21 East, in the City of Franklin, Milwaukee County, Wisconsin.

December 18, 2018 (Drawing Only)
January 30, 2018 Added Existing Dwelling & Shed
February 12, 2019 Added Gravel Drive, Existing Culverts, Ditchline.
February 13, 2019 Added Area of Ditch & Wetland Setback Line

Unplatted Lands

Survey No. NRPP Report - Wyndham



GRAPHIC SCALE

1 inch = 30 ft.

Note: Certified Survey Map from which Subject Property is Derived has not been Recorded with Milwaukee County



I HEREBY CERTIFY THAT I HAVE SURVEYED THE ABOVE DESCRIBED PROPERTY AND THAT THE ABOVE MAP IS A TRUE REPRESENTATION THEREOF AND SHOWS THE SIZE AND LOCATION OF THE PROPERTY. ITS EXTERIOR BOUNDARIES, THE LOCATION OF ALL VISIBLE STRUCTURES AND DIMENSIONS OF ALL PRINCIPAL BUILDINGS THEREON, BOUNDARY FENCES, APPARENT EASEMENTS AND ROADWAYS AND VISIBLE ENCROACHMENT, IF ANY.

THIS SURVEY IS MADE FOR THE EXCLUSIVE USE OF THE PRESENT OWNERS OF THE PROPERTY, AND ALSO THOSE WHO PURCHASE, MORTGAGE, OR GUARANTEE THE TITLE THERETO WITHIN

Dennis C. Sauer **Professional Land Surveyor S-2421** 

Proposed finished yard, 1st floor or top of foundation grade shown on this drawing is a suggested grade and should be verified by the owner, builder or municipality

METROPOLITAN SURVEY SERVICE, INC. ROFESSIONAL LAND SURVEYORS AND CIVIL ENGINEERS 9415 West Forest Home Avenue, Suite 202 Hales Corners, Wisconsin 53130 FAX (414) 529-9787 PH. (414) 529-5380 email address: survey@metropolitansurvey.com

• — Denotes Iron Pipe Found © — Denotes Iron Pipe Set 000.0 — Denotes Proposed Grade

-x--x---x---Denotes Proposed Silt Screen

#### **DIVISION 15-3.0500** SITE INTENSITY AND CAPACITY CALCULATIONS

# SECTION 15-3.0501 NATURAL RESOURCE PROTECTION AND SITE INTENSITY AND CAPACITY CALCULATIONS FOR RESIDENTIAL AND NONRESIDENTIAL USES REQUIRED

- A. **Recognition of Natural Resource Features.** This Ordinance recognizes that landforms, parcel size and shape, and natural resource features vary from site to site and that development regulations must take into account these variations. The maximum density or intensity of use allowed in any zoning district is controlled by the various district standards set forth for each of the various zoning districts of this Ordinance.
- B. When Natural Resource Protection and Site Intensity and Capacity Calculations Are Required. Natural resource protection is required for all development and the site intensity and capacity calculations set forth in this Division shall be made for each parcel of land to be used or built upon in the City of Franklin including all new Certified Survey Maps, Preliminary Plats, condominiums, multiple-family residential developments, all nonresidential development, and as may be required elsewhere in this Ordinance except as excluded under the provisions of Section 15-3.0501C. of the Unified Development Ordinance.
- C. Exclusions (When Natural Resource Protection and Site Intensity and Capacity Calculations Are Not Required). Natural resource protection shall not be required and the site intensity and capacity calculations set forth in this Division shall not be required for the construction of singlefamily and two-family residential development located on non-divisible existing lots of record within existing platted Subdivisions (with an approved Final Plat), Certified Survey Maps, and Condominiums existing on August 1, 1998, the effective date of this Ordinance or for which a natural resource protection plan and site intensity capacity calculations were filed at the time of division after August 1, 1998. A Natural Resource Protection Plan shall not be required with an application for certified survey map approval where a single property zoned I-1Institutional District is divided as a result of a public work of improvement for street extension purposes, with related public sanitary sewer and water work for which special assessment was made, into two or more parcels through the property fee acquisition by the City for the extension of the public street. The foregoing exclusions from Natural Resource Protection Plan submission requirements for certified survey map applications shall only be available upon the conditions that in lieu of the Plan submission requirement, the certified survey map application shall be accompanied by the "best available information" as to the existence of any natural resource features, such as existing topographical maps, wetland inventories, and other such inventories as may be available; and that a Natural Resource Protection Plan must be submitted upon any further development of any portion of the mapped property. A Natural Resource Protection Plan shall also not be required with an application for certified survey map approval where lots are being created from a larger surrounding parcel, with the larger in area in relation to the lots created remnant parcel being vacant, or already having being developed by the existence of a principal structure and not being the subject of current further development application, and with the only natural resources within the map area being upon the remnant parcel and being more than 500 feet away from the lots being created. The foregoing exclusion from Natural Resource Protection Plan submission requirement for certified survey map applications shall only be available upon the conditions that i) in lieu of the Natural Resource Protection Plan submission requirement, the Certified Survey Map application shall show upon its face the existence of any natural resource features, as identified in §15-4.0102, located on

the parcels of the Certified Survey Map based upon the "best available" information; (ii) that a Natural Resource Protection Plan must be submitted upon any further development of the "remnant" parcel; and iii) the following note shall be placed upon the face of such Certified Survey Map: "The Natural Resource Features identified herein are not based upon field surveys. In the event of further land division or development of a parcel herein with any such Natural Resource Feature, a complete NRPP with field surveys is required for said parcel" For the purposes of this section, the Zoning Administrator shall not require that the "best available" information be a "first source" of information, as identified in §15-4.0102A., B., C., D., and G. Notwithstanding any other provision of this Ordinance, natural resource protection and any such related Natural Resource Protection Plan, shall not be required and the site intensity and capacity calculations set forth in this Division shall not be required for any accessory use structure or accessory use development or for an addition or modification to an existing principal structure development which does not increase the existing developed structure and impervious surface area upon the parcel by more than 50% or 2,500 square feet, whichever is smaller, where natural resource feature(s) are not within 100 feet of the area to be disturbed by the new development, upon a parcel supporting an existing principal structure with an existing principal use; determination as to whether natural resource features are within 100 feet of the area to be disturbed, the boundaries of which shall be clearly identified within application materials, shall be made by the City Engineer or designee; however, if any resources identified by the Southeastern Wisconsin Regional Planning Commission in PR 176 or in PR 42, as may be amended from time to time, as Primary or Secondary Environmental Corridor and/or Isolated Natural Resources Area, are located on the site by the City Engineer or designee, but are outside of 100 feet of the area to be disturbed, a written plan shall be provided by the applicant detailing the protective measures that will be implemented to prevent such natural resource feature(s) adverse impacts, which shall be subject to approval by the Plan Commission and shall be installed as may be provided on site as detailed within the plan as a condition of application approval.

#### SECTION 15-3.0502 CALCULATION OF BASE SITE AREA

The *base site area* shall be calculated as indicated in Table 15-3.0502 for each parcel of land to be used or built upon in the City of Franklin as referenced in Section 15-3.0501 of this Ordinance.

#### Table 15-3.0502

#### WORKSHEET FOR THE CALCULATION OF BASE SITE AREA FOR BOTH RESIDENTIAL AND NONRESIDENTIAL DEVELOPMENT

STEP 1:	Indicate the total gross site area (in acres) as determined by an actual on-site boundary survey of the property.	4.96 acres
STEP 2:	Subtract ( - ) land which constitutes any existing dedicated public street rights-of-way, land located within the ultimate road rights-of-way of existing roads, the rights-of-way of major utilities, and any dedicated public park and/or school site area.	- 0.00 acres
STEP 3:	Subtract ( - ) land which, as a part of a previously approved development or land division, was reserved for open space.	- 0.00 acres
STEP 4:	In the case of "Site Intensity and Capacity Calculations" for a proposed residential use, subtract ( - ) the land proposed for nonresidential uses;  or  In the case of "Site Intensity and Capacity Calculations" for a proposed nonresidential use, subtract ( - ) the land proposed for residential uses.	- 0.00 acres
STEP 5:	Equals "Base Site Area"	= 4.96 acres

## SECTION 15-3.0503 CALCULATION OF THE AREA OF NATURAL RESOURCES TO BE PROTECTED

All land area with those natural resource features as described in Division 15-4.0100 of this Ordinance and as listed in Table 15-3.0503 and lying within the *base site area* (as defined in Section 15-3.0502), shall be measured relative to each natural resource feature present. The actual land area encompassed by each type of resource is then entered into the column of Table 15-3.0503 titled "Acres of Land in Resource Feature." The acreage of each natural resource feature shall be multiplied by its respective *natural resource protection standard* (to be selected from Table 15-4.0100 of this Ordinance for applicable agricultural, residential, or nonresidential zoning district) to determine the amount of resource protection land or area required to be kept in open space in order to protect the resource or feature. The sum total of all resource protection land on the site equals the *total resource protection land*. The *total resource protection land* shall be calculated as indicated in Table 15-3.0503.

Table 15-3.0503

WORKSHEET FOR THE CALCULATION OF RESOURCE PROTECTION LAND

Natural Resource Feature	Upon Z (circle app Table 15-4.01	ion Standard Honing District olicable standa 100 for the typolich the parcel	Type rdfrom e of zoning	Acres of Land in	Resource Feature
	Agricultural District	Residential District	Non- Residential District.		
Steep Slopes:					
10-19%	0.00	0.60	0.40	X 0.00 =	0.00
20-30%	0.65	0.75	0.70	X 0.00 =	0.00
+ 30%	0.90	0.85	0.80	X 0.00 =	0.00
Woodlands & Forests:					
Mature	0.70	0.70	0.70	X 0.00 =	0.00
Young	0.50	0.50	0.50	X 0.00 =	0.00
Lakes & Ponds	1	1	1	X 0.00 =	0.00
Streams	1	1	1	X 0.00 =	0.00
Shore Buffer	1	1	1	X 0.00 =	0.00
Floodplains	1	1	1	X 0.00 =	0.00
Wetland Buffers	1	1	1	X 0.29 =	0.29
Wetlands & Shoreland Wetlands	1	1	1	X 0.00 =	0.00
TOTAL RESOURCE PROTECT (Total of Acres of Land in Resour		rotected)		•	0.29

**Note:** In conducting the calculations in Table 15-3.0503, if two or more natural resource features are present on the same area of land, only the most restrictive resource protection standard shall be used. For example, if floodplain and young woodlands occupy the same space on a parcel of land, the resource protection standard would be 1.0 which represents the higher of the two standards.

## SECTION 15-3.0504 CALCULATION OF SITE INTENSITY AND CAPACITY FOR RESIDENTIAL USES

In order to determine the maximum number of dwelling units which may be permitted on a parcel of land zoned in a residential zoning district, the site intensity and capacity calculations set forth in Table 15-3.0504 shall be performed.

#### **Table 15-3.0504**

## WORKSHEET FOR THE CALCULATION OF SITE INTENSITY AND CAPACITY FOR RESIDENTIAL DEVELOPMENT

	CALCULATE MINIMAL REQUIRED ON-SITE OPEN SPACE Take	
	Base Site Area (from Step 5 in Table 15-3.0502): 4.96 Acres	
STEP 1:	Multiple by Minimum <i>Open Space Ratio (OSR)</i> (see specific residential zoning district OSR standard): X 0.00	
	Equals MINIMUM REQUIRED ON-SITE OPEN SPACE =	0.00 acres
	CALCULATE NET BUILDABLE SITE AREA:	
	Take <i>Base Site Area</i> (from Step 5 in Table 15-3.0502): 4.96Acres	
STEP 2:	Subtract <i>Total Resource Protection Land</i> from Table 15-3.0503) or <i>Minimum Required On-Site Open Space</i> (from Step 1 above), whichever is greater: - 0.29 Acres	
	Equals NET BUILDABLE SITE AREA =	4.67 acres
	CALCULATE MAXIMUM NET DENSITY YIELD OF SITE: Take	
	Net Buildable Site Area (from Step 2 above): 4.67 Acres	
STEP 3:	Multiply by Maximum <i>Net Density (ND)</i> (see specific residential zoning district ND standard): X 2.972	
	Equals MAXIMUM NET DENSITY YIELD OF SITE =	13 D.U.s
	CALCULATE MAXIMUM GROSS DENSITY YIELD OF SITE: Take	
	Base Site Area (from Step 5 of Table 15-3.0502): 4.96 Acres	
STEP 4:	Multiple by Maximum <i>Gross Density (GD)</i> (see specific residential zoning district GD standard): X 2.972	
	Equals MAXIMUM GROSS DENSITY YIELD OF SITE =	14 D.U.s
	DETERMINE MAXIMUM PERMITTED D.U.s OF SITE:	
STEP 5:	Take the <i>lowest</i> of Maximum Net Density Yield of Site (from Step 3 above) or Maximum Gross Density Yield of Site (from Step 4 above):	13 D.U.s
	<u>J</u>	J



2-2-19

Mr. Dan Kanitz Wyndham Homes 5665 S. 108<sup>th</sup> Street Hales Corners, WI 53130

#### Dear Mr. Kanitz:

Wetland & Waterway Consulting (WWC) has conducted a wetland delineation on property located in Sec. 13, T5N, R21E, City of Franklin, Milwaukee County. The delineation was conducted on 9-28-18 at your request. This site is under consideration for future development; therefore, location of the presence or absence of wetlands prior to construction is necessary.

#### Investigator

Dave Meyer, lead delineator, is an independent environmental consultant providing wetland delineations, environmental permitting services, site assessments, and planning advice. He obtained a master's degree in Natural Resources Management from Southern Illinois University-Carbondale in 1977. Mr. Meyer has held technical and administrative positions in wetland and water resources specialties with the Wisconsin Department of Natural Resources and the U.S. Army Corps of Engineers. He has satisfactorily completed the Reg IV Wetland Delineation training offered by the U.S. Army Corps of Engineers, the Advanced Wetland Delineation training conducted by the University of Wisconsin-LaCrosse in 2002 and 2007, the USACOE/WIDNR 1987 Wetland Delineation Manual Midwest Region Supplement Training in 2010, the Basic Hydric Soil ID training conducted by the University of Wisconsin-LaCrosse in 2011, the Wetland Training Institute's Advanced Hydrology for Jurisdictional Determinations in 2016, and the SEWRPC Environmental Corridor Delineation Workshops in 2004 and 2015. Mr. Meyer is recognized by the Wisconsin Department of Natural Resources as an Assured Delineator.

#### Methods

The site visit was conducted according to the guidelines identified in the U.S. Army Corps of Engineers' 1987 manual and the Midwest Regional Supplement. The plot size used was a 30 foot radius circle for trees, shrub/saplings, and woody vines, and a 5 foot radius circle for herbaceous vegetation.

Six data points were located in the subject parcel. Data was collected on the vegetation, soils, and hydrology at each point. The field investigation followed the technical approach described in the USACOE 1987 Manual. Refer to the map attached to the end of this report for locations of these points.

Roadside ditches and other drainage ditches internal to the site were identified if they displayed hydric vegetation. Flags were placed in the middle of the ditches at their beginning and ending points for the surveyor to locate. If the ditch was very long or had unusual bends or turns in it, additional flags were placed within the central parts of the ditch to assist in its location.

Resources utilized in the investigation included the NRCS county soil survey, Wisconsin Wetland Inventory mapping, topo mapping, aerial photos, and county plat mapping. Significant literature consulted includes:

- Curtis, John. 1971. The Vegetation of Wisconsin. University of Wisconsin Press, Madison, Wisconsin. 173 pp.
- Eggers, Steve and Donald Reed. 2011. Wetland Plants and Plant Communities of Minnesota and Wisconsin 3rd Edition. St. Paul District, U.S. Army Corps of Engineers, St. Paul, MN 478 pp.
- Peterson, Roger and Margaret McKenny. 1968. A Field Guide to Wildflowers of Northeastern and Northcentral North America. Houghton Mifflin Company, Boston, Mass. 420 pp.
- Swink, Floyd and Gerould Wilhelm. 1994. Plants of the Chicago Region. The Morton Arboretum, Lisle, Illinois. 921 pp.

#### Results and Discussion

- \* This approximately 4.96 acre site is situated on the south side of W. Forest Hill Avenue just west of South 27<sup>th</sup> Street. The site consists of a single family home and outbuilding, mowed and maintained lawn, and upland wooded areas. The site slopes from W. Forest Hill Avenue up to the south at an approximate 5% grade. The house and outbuilding occupy the highest elevation of the parcel where the slope flattens out into a level area. The site then continues downslope to the south at an approximate 10% grade. The northern portion of the property is occupied by the residence and mowed lawn. The southern portion of the site is occupied by a stand of upland hardwood trees and shrubs.
- \* This site has not been previously delineated.
- \* The soil types mapped within the project boundaries are Blount silt loam (BlA) and Ozaukee silt loam (OzaB, OzaB2, OzaC2).
- \* The roadside ditch on the south side of W Forest Hill Avenue, for the entire distance of the parcel, supports hydric vegetation and is dominated by Kentucky bluegrass, riverbank grape, red osier dogwood, calico aster, wood sedge, box elder, and American elm. It is an average of 24 inches wide and did not have any water in it at the time of the delineation. The side slopes are dominated by tall fescue, English plantain, Kentucky bluegrass, Queen Anne's lace, and dandelion.
- \* The Wisconsin Wetland Inventory map does not show any wetland on the property.
- \* The vegetative, soil, and hydrology characteristics at each data point are described on the individual data sheets. Collectively, data point #'s 1 and 2 in the mowed lawn are dominated by tall fescue and Kentucky bluegrass in the herbaceous stratum and apple and pear trees in the tree stratum. Neither soil nor the required hydrology indicators are present. Data point #'s 3, 4, 5, and 6 are located in the wooded area on the south end of the site. Dominant vegetation in the tree stratum is box elder, American elm, common buckthorn, black walnut, and white ash; staghorn sumac, gray dogwood, cockspur hawthorn, prickly ash, and common buckthorn in the sapling/shrub stratum; and Canada goldenrod, daisy fleabane, Kentucky bluegrass, giant goldenrod, white avens, and redtop grass in the herbaceous stratum. Neither soil nor the required hydrology indicators are present at any of these data points.

No wetlands were discovered as a result of the delineation conducted on this parcel with the exception of the roadside ditch.

#### Precipitation Data

Precipitation data from the websites of the USDA Natural Resource Conservation Service, the National Oceanic and Atmospheric Administration (NOAA), and Racine WETS station WI6922 was examined. This antecedent data was reviewed and considered while making determinations concerning the presence and/or absence of wetlands during the field investigation.

Because the antecedent precipitation was normal, direct observation of saturated soils, and even the possibility of standing water, was potentially anticipated, although not expected. Other primary indicators as well as the secondary indicators were also searched for.

Note that when a site is delineated in the second half of the month, the current month and the previous 2 months are taken into consideration.

Condition Value Dry = 1 Normal = 2 Wet = 3

	Month	Normal	3 yrs. In 10 less than	3 yrs. In 10 more than	Observed precip.	Condition dry, wet, normal	Condition value	Month weight value	Product of previous two columns
current month	September	3.70	1.75	4.52	4.51	normal	2	3	6
1st prior month 2nd prior	August	4.08	2.76	4.88	5.46	wet	3	2	6
month	July	3.57	2.58	4.22	2.40	dry	1	1 <b>sum</b>	1 13

If sum

is

6-9 drier than normal

10 - 14 normal

15 - 18 wetter than normal

#### Conclusion

Antecedent precipitation was normal.

#### Conclusion

No wetlands are present on this site with the exception of the roadside ditch described above. Because this delineation was conducted by Mr. Meyer, an Assured Delineator, obtaining a concurrence letter from the Wisconsin Department of Natural Resources is not necessary. Concurrence with the finding of no wetlands on this parcel by the U.S. Army Corps of Engineers, however, must be obtained before

undertaking any alterations or modifications of this property. Activities affecting wetlands or surface waters may require permits from the U.S. Army Corps of Engineers, the Wisconsin Department of Natural Resources, and local municipal authorities. The client must obtain authorization from all proper regulatory authorities before altering, modifying, or using the property. If the required authorizations are not obtained, Wetland & Waterway Consulting, LLC shall not be liable or responsible for any resulting damages.

Sincerely

Dave Meyer

#### Attachments

- 1. Data points
- 2. Soil Survey and Wisconsin Wetland Inventory map
- 3. USGS topo map
- 4. Location map
- 5. Site photographs
- 6. Data point location map

WETLAND DETER	RMINATION	DATA FORM	<ul> <li>Midwest Region</li> </ul>	
Project/Site: W. Forest Hill Ave,	City	County: FVGN	klin s	ampling Date: $9-28-10$
Applicant/Owner:		w		ampling Point: 77 0
Investigator(s):	Secti	on, Township, Rar	nge: <u>Jec 13 TS</u>	NRZIE
Landform (hillstope, terrace, etc.): //////			(concave, convex, none):	Convex
Slope (%): ~ 3 Lat:	Long	:	<u> </u>	atum:
		43	NWI classificati	A /
Are climatic / hydrologic conditions on the site typical for this		702		
Are Vegetation, Soil, or Hydrotogy si				_
	-		Normal Circumstances" pres	
Are Vegetation, Soil, or Hydrotogy na			eded, explain any answers i	•
SUMMARY OF FINDINGS - Attach site map to		npling point k	ocations, transects, i	mportant features, etc.
Hydrophytic Vegetation Present? Yes No. Hydric Soil Present? Yes No.	_	is the Sampled	Area	
Wetland Hydrology Present?		within a Wetlan		No
Remarks	A 1	<u> </u>		
DP located in move	9 166	7		
VEGETATION - Use scientific names of plants.				
		minant indicator	Dominance Test worksh	ieet:
Tree Stratum (Plot size:)  1		ocies? Status	Number of Dominant Spec That Are OBL, FACW, or	
2			Total Number of Dominan	nt /
3			Species Across All Strata:	•
4		<del></del>	Percent of Dominant Spec	cies ~
5			That Are OBL, FACW, or	
Sapling/Shrub Stratum (Plot size:)	= To	tal Cover	Prevalence Index works	heet:
1			Total % Cover of:	
2.			OBL species	
3.			FACW species	x 2 =
4.			FAC species	x3=
5			FACU species	x4=
	= To	tal Cover	UPL species	x5=
Herb Stratum (Plot size:)			Column Totals:	(A) (B)
2 Testing abundances	25	F-MG	L	B/A =
3. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7.			Hydrophytic Vegetation	
a. Mitolium pratense	<u> </u>	TACH	1 - Rapid Test for Hyd	•
* D 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	<del>-</del>	-TAC	2 - Dominance Test is	
& PA PIETENIS	40_		3 - Prevalence Index	
7.	<del></del>	<del></del>	data in Remarks c	eptations <sup>1</sup> (Provide supporting or on a separate sheet)
8			i	ytic Vegetation¹ (Explain)
9.				,
10	<u>// ()</u> = To	tal Cover	<sup>1</sup> Indicators of hydric soil a be present, unless disturb	and wetland hydrology must sed or problematic.
Woody Vine Stretum (Plot size:) 1				
2			Hydrophytic Vegetation	
		tal Cover	Present? Yes_	No
Remarks: (Include photo numbers here or on a separate s			J	

rofile Descri	ption: (Describe t	o the depth	needed to docum	ent the ir	ndicator o	r confirm	the absence	of indicators.)	
Depth _	Matrix		Redox	Features	1				
inches)	Color (maist)	%	Color (moist)	%	Type'	Loc2	Texture	Remarks	
)-17 /	13/12 3/2	700					511+	oan	
<u></u>	TIL SIFE	700					<del></del>		
<del></del>								1	
7-24	104122/1	98 1	15/12 4/4	2	C	14	5:17	oan	
Type: C=Con	centration, D=Dep	letion, RM=F	Reduced Matrix, MS	=Masked	Sand Gra	ins.		: PL=Pore Lining, M=Matrix.	
tydric Soil In							Indicators	for Problematic Hydric Solis <sup>3</sup> :	
Histosol (A	<b>A1)</b>		Sandy G	leyed Ma	ıtrix (S4)		Coast	Prairie Redox (A16)	
Histic Epir	pedon (A2)			edox (S5	-			Surface (S7)	
Black Hist				Matrix (S	•			langanese Masses (F12)	
	Sulfide (A4)			-	neral (F1)		_ ·	Shallow Dark Surface (TF12)	
	Layers (A5)			Sleyed Ma			Other	(Explain in Remarks)	
2 cm Muci	•	- (844)		l Matrix (l	•				
	Below Dark Surfac	e (A11)		ark Surfa	ide (F6) inface (F7)		3Indicator	s of hydrophytic vegetation and	
	k Surface (A12) icky Mineral (S1)			epression				d hydrology must be present,	
	ky Peat or Peat (S	3)	11000x 2	oprocesio:				disturbed or problematic.	
	ayer (if observed):					·····	T		
reministra Li									
	.,								
Туре:			<del></del>				Hydric Soi	I Present? Yes No _	مسا
Туре:	nes):		**************************************			<u></u>	Hydric Soi	I Present? Yes No _	
Type: Depth (inch							Hydric Sol	I Present? Yes No _	
Type: Depth (inch	nes):				. =		Hydric Soi	I Present? Yes No_	
Type: Depth (Incl Remarks:  YDROLOG Wetland Hyde	nes):								
Type: Depth (Incl Remarks:  YDROLOG Wetland Hyde	nes):		ed: check all that ac	(Vlq				I Present? Yes No _	quire
Type: Depth (Incl Remarks:  YDROLOG Wetiand Hyde	nes):				res (B9)		Second		equire
Type: Depth (Incl Remarks:  YDROLOG Wetland Hydi Primary Indica	nes):  Y rology Indicators: ators (minimum of c		ed: check all that ac	ned Leav	•		Second Su	ary indicators (minimum of two re	quire
Type: Depth (Incl Remarks:  YDROLOG Wetland Hydi Primary Indica	SY rology Indicators: ators (minimum of s Nater (A1) er Table (A2)		ed: check all that ap Water-Stai Aquatic Fa True Aqua	ned Leav una (B13 tic Plants	(B14)		SecondSuDra	lary indicators (minimum of two re rface Soil Cracks (B6) ainage Patterns (B10) r-Season Water Table (C2)	<b>v</b>
Type: Depth (Inch Remerks:  YDROLOG Wetland Hydi Primery Indice Surface V High Wat	Prology Indicators: ators (minimum of of Vater (A1) er Table (A2) in (A3)		ed: check all that ap Water-Stai Aquatic Fa	ned Leav una (B13 tic Plants	(B14)		SecondSuDra	lary indicators (minimum of two re rface Soil Cracks (B8) ainage Patterns (B10)	oquire
Type: Depth (Inch Remarks:  YDROLOG Wetiand Hydi Primary Indica Surface V High Wat Saturation Water Ma	Prology Indicators: ators (minimum of of Vater (A1) er Table (A2) in (A3)		ed: check all that ap — Water-Stai — Aquatic Fa — True Aqua — Hydrogen	ned Leav una (B13 tic Plants Sulfide O	(B14) dor (C1)	ring Roots	SecondSuDriDriCri	lary indicators (minimum of two re rface Soil Cracks (B6) ainage Patterns (B10) r-Season Water Table (C2)	
Type: Depth (Inch Remarks:  YDROLOG Wetiand Hydi Primary Indica Surface V High Wat Saturation Water Ma	rology Indicators: ators (minimum of o Vater (A1) er Table (A2) in (A3) arks (B1) t Deposits (B2)		ed: check all that ap — Water-Stai — Aquatic Fa — True Aqua — Hydrogen	ned Leav una (B13 tic Plants Sulfide O Ihizosphe	i) (B14) dor (C1) ares on Liv		Second Su Dri Dri Cri (C3) Sa	iary indicators (minimum of two re rface Soil Cracks (B6) ainage Patterns (B10) r-Season Water Table (C2) ayfish Burrows (C8)	
Type: Depth (Incl Remarks: YDROLOG Wetland Hydi Primary Indics Surface V High Water Saturation Water Ma Sediment Drift Depo	rology Indicators: ators (minimum of o Vater (A1) er Table (A2) in (A3) arks (B1) t Deposits (B2)		ed: check all that ap Water-Stai Aquatic Fa True Aqua Hydrogen Oxidized F	ned Leav una (B13 tic Plants Sulfide O thizosphe of Reduce	i) (B14) dor (C1) ares on Liv ed Iron (C	4)	Second Su Dry Dry Cri (C3) Sa	iary indicators (minimum of two re rface Soil Cracks (B6) ainage Patterns (B10) r-Season Water Table (C2) ayfish Burrows (C8) turation Visible on Aerial Imagery	
Type: Depth (Incl Remarks: YDROLOG Wetland Hydi Primary Indics Surface V High Water Saturation Water Ma Sediment Drift Depo	rology Indicators: ators (minimum of states (A1) er Table (A2) in (A3) arks (B1) it Deposits (B2) oosits (B3) it or Crust (B4)		ed: check all that ap Water-Stai Aquatic Fa True Aqua Hydrogen Oxidized F	ned Leav luna (B13 tic Plants Sulfide O thizosphe of Reduct	i) (B14) dor (C1) ares on Liv ed Iron (C- ion in Tille	4)	Second Su Dri Cri (C3) Sa Siu 6) Ge	iary indicators (minimum of two re rface Soil Cracks (B6) sinage Patterns (B10) /-Season Water Table (C2) ayfish Burrows (C8) turation Visible on Aerial Imagery unted or Stressed Plants (D1)	
Type: Depth (Incl Remarks:  YDROLOG Wetland Hydi Primary Indica Surface V High Wate Saturation Water Ma Sediment Drift Depc Algai Mat Iron Depc	rology Indicators: ators (minimum of states (A1) er Table (A2) in (A3) arks (B1) it Deposits (B2) oosits (B3) it or Crust (B4)	ene is require	ed: check all that ap  Water-Stai  Aquatic Fa  True Aqua  Hydrogen  Oxidized F  Presence  Recent Iro  Thin Muck	ned Leaviuna (B13 tic Plants Sulfide O thizosphe of Reduct n Reduct	(B14) Idor (C1) Idor (C7)	4)	Second Su Dri Cri (C3) Sa Siu 6) Ge	lary indicators (minimum of two re rface Soil Cracks (B6) ainage Patterns (B10) y-Season Water Table (C2) ayfish Burrows (C8) turation Visible on Aerial Imagery inted or Stressed Plants (D1) omorphic Position (D2)	
Type: Depth (Incl Remarks:  YDROLOG Wetland Hydi Primary Indice Surface V High Wate Saturation Water Ma Sediment Drift Depo Algal Mat Iron Depo Inundatio	rology Indicators: ators (minimum of states (Ma) nr (A3) nr (A3) tr (B1) t Deposits (B2) osits (B3) t or Crust (B4) osits (B5)	one is require	ed: check all that ap  Water-Stai  Aquatic Fa  True Aqua  Hydrogen  Oxidized F  Presence  Recent Iro  Thin Muck	ned Leavenne (B13 tic Plants Sulfide O Rhizosphe of Reduct n Reducti Surface Well Data	(B14) dor (C1) deres on Lived Iron (C- don in Tille (C7) (D9)	4)	Second Su Dri Cri (C3) Sa Siu 6) Ge	lary indicators (minimum of two re rface Soil Cracks (B6) ainage Patterns (B10) y-Season Water Table (C2) ayfish Burrows (C8) turation Visible on Aerial Imagery inted or Stressed Plants (D1) omorphic Position (D2)	
Type:	rology Indicators: ators (minimum of states (Manum of sta	one is require	ed: check all that ap  Water-Stai  Aquatic Fa  True Aqua  Hydrogen  Oxidized F  Presence  Recent Iro  Thin Muck	ned Leavenne (B13 tic Plants Sulfide O Rhizosphe of Reduct n Reducti Surface Well Data	(B14) dor (C1) deres on Lived Iron (C- don in Tille (C7) (D9)	4)	Second Su Dri Cri (C3) Sa Siu 6) Ge	lary indicators (minimum of two re rface Soil Cracks (B6) ainage Patterns (B10) y-Season Water Table (C2) ayfish Burrows (C8) turation Visible on Aerial Imagery inted or Stressed Plants (D1) omorphic Position (D2)	
Type: Depth (Incl Remarks:  YDROLOG Wetland Hyde Surface V High Wate Saturation Water Ma Sediment Drift Depo Algal Mat Iron Depo Inundatio	rology Indicators: ators (minimum of states (Manum of sta	one is require	ed: check all that ap  Water-Stai  Aquatic Fa  True Aqua  Hydrogen  Oxidized F  Presence  Recent Iro  Thin Muck  Gauge or 188)  Other (Exp	ned Leav una (B13 tic Plants Sulfide O thizosphe of Reduce n Reduct Surface Well Data olain in Re	(B14) Idor (C1) Idor (C1) Idor (C1) Idor (C1) Idor (C0) Idor (C1) Idor (C7) Idor (C1)	4) d Soils (C	Second Su Dri Cri (C3) Sa Siu 6) Ge	lary indicators (minimum of two re rface Soil Cracks (B6) ainage Patterns (B10) y-Season Water Table (C2) ayfish Burrows (C8) turation Visible on Aerial Imagery inted or Stressed Plants (D1) omorphic Position (D2)	
Type: Depth (Incl Remarks:  YDROLOG Wetland Hyde Primary Indice Surface V High Water Ma Sediment Drift Depc Algal Mat iron Depc inundatio Sparsely Field Observ Surface Water	relogy Indicators: ators (minimum of state (A1) er Table (A2) in (A3) arks (B1) t Deposits (B2) osits (B3) t or Crust (B4) osits (B5) in Visible on Aerial Vegetated Concaviations: er Present?	Imagery (B7	ed: check all that ap  Water-Stai  Aquatic Fa  True Aqua  Hydrogen  Oxidized F  Presence  Recent iro  Thin Muck  Gauge or 1  BB)  Other (Exp	ned Leav una (B13 tic Plants Sulfide O thizosphe of Reduct n Reduct Surface Well Data blain in Re-	(B14) Idor (C1) Idor (C1) Idor (C1) Idor (C1) Idor (C0) Idor (C1) Idor (C7) Idor (C1)	4) d Soils (C	Second Su Dri Cri (C3) Sa Siu 6) Ge	lary indicators (minimum of two re rface Soil Cracks (B6) ainage Patterns (B10) y-Season Water Table (C2) ayfish Burrows (C8) turation Visible on Aerial Imagery inted or Stressed Plants (D1) omorphic Position (D2)	
Type:	relogy Indicators: ators (minimum of of Nater (A1) er Table (A2) in (A3) arks (B1) it Deposits (B2) osits (B3) or Crust (B4) osits (B6) in Visible on Aerial Vegetated Concavisations: er Present?	Imagery (B7 e Surface (E	ed: check all that ap  Water-Stai  Aquatic Fa  True Aqua  Hydrogen  Oxidized F  Presence  Recent Iro  Thin Muck  Gauge or 1  SS)  Other (Exp	ned Leavunna (B13 tic Plants Sulfide O thizosphe of Reduct n Reduct Surface Well Data plain in Re ches): ches):	(B14) (B14) (dor (C1) (dor (C1) (dores on Lived fron (C) (on in Tille (C7) (D9) (D9)	4) d Soils (C	Second Su Dri Cri (C3) Sa Sti 6) Ge	lary indicators (minimum of two re rface Soil Cracks (B6) ainage Patterns (B10) y-Season Water Table (C2) ayfish Burrows (C8) turation Visible on Aerial Imagery inted or Stressed Plants (D1) omorphic Position (D2)	(C9)

WETLAND DET	ERMINATION	DATA FORM	- Midwest Region
Project/Site: W. Forest Hill Ave,	CityR	County: FVGV	1/6/in Sampling Date: 9-28-19
Applicant/Owner:		·	state: WI Sampling Point: #24/
Investigator(s):	Secti	on, Township, Ra	
Landform (hillstope, terrace, etc.): //////	e		(concave, convex, none): CBNLX
Slope (%)(			
	C4 18/1	· <del></del>	Datum:
Soil Map Unit Name: DIOGLE SIIF 10	*** N 1/3	10 th	MAAL CHRRRILLEROUS.
Are climatic / hydrologic conditions on the site typical for t			
Are Vegetation, Soil, or Hydrology			"Normal Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrotogy	_naturally problem	atic? (If ne	eeded, explain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach site ma	p showing san	npling point l	ocations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes			
1	No	Is the Sampled	
Wetland Hydrology Present? Yes	No	within a Wetlar	nd? Yes No No
Do located in mov	ved law	2	
VEGETATION - Use scientific names of plant	ts.		
Tree Stratum (Plot size:		ninant indicator cies? Status	Dominance Test worksheet:
1. 44 /	76 COVEL SHE	Clesr Status	Number of Dominant Species That Are OBL, FACW, or FAC: (A)
2 Malhs Phmila	-75-	UPL	
3.—			Total Number of Dominant Species Across All Strata: (B)
4. Pros Compagnis	75 -	UPL	
5			Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)
	30 = To	tai Cover	
Sapling/Shrub Stratum (Plot size:)			Prevalence index worksheet:
1	<del></del>		Total % Cover of: Multiply by:
2			OBL species x 1 =
3			FACW species x2 = FAC species x3 =
<b>459</b> .		<del></del>	FAC species x 3 = FACU species x 4 =
		la! Cover	UPL species x 5 =
Herb Stratum (Plot size:)			Column Totals:(A)(B)
1.			
2. Olechone nodouses	_ <i></i>	FACL	Prevalence Index = B/A =
3 Pro materia			Hydrophytic Vegetation Indicators:
4. TUE MAIPHSII	_ 20 _	<u>/-/3 C</u>	1 - Rapid Test for Hydrophytic Vegetation
& Tritolian praterie	_	FAG	2 - Dominance Test is >50%
7		1 Pack	
8. Taraccum officinate		FAG	data in Remarks or on a separate sheet)
0. 75 75 75 75 75 75 75 75 75 75 75 75 75		1 /8(0)	Problematic Hydrophytic Vegetation¹ (Explain)
10.	<del></del>		
Woody Vine Stratum (Piot size:)	700 = To	al Cover	<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1			Hydrophytic
2	<del></del>		Vegetation
Company (top), do abote and to the company of the c		al Cover	Present? Yes No
Remarks: (Include photo numbers here or on a separate	e sheet.)		

Sampling Point: 2

•			onfirm the absence of Indicators.)
	atrix	Redox Features	
(inches) Color (mo	ist) %	Color (moist) % Type Lo	pc <sup>2</sup> Texture Remarks
<del></del>	<del></del>		
0-24 10123	13 100		Siltloan
<del></del>			
	<del></del>		•
	>=Depletion, RM=F	Reduced Matrix, MS=Masked Sand Grains.	
Hydric Soil Indicators:			indicators for Problematic Hydric Solls <sup>3</sup> :
Histosol (A1)		Sandy Gleyed Matrix (S4)	Coast Prairie Redox (A16)
Histic Epipedon (A2)		Sandy Redox (S5)	Dark Surface (S7)
Black Histic (A3)		Stripped Matrix (S6)	Iron-Manganese Masses (F12)
Hydrogen Sulfide (A4)		Loamy Mucky Mineral (F1)	Very Shallow Dark Surface (TF12)
Stratified Layers (A5)		Loamy Gleyed Matrix (F2)	Other (Explain in Remarks)
2 cm Muck (A10)	Curfore (A44)	Depleted Matrix (F3)	
Depleted Below Dark S		Redox Dark Surface (F6) Depleted Dark Surface (F7)	<sup>3</sup> Indicators of hydrophytic vegetation and
Thick Dark Surface (A: Sandy Mucky Mineral		Depleted Dark Surface (F7) Redox Depressions (F8)	wetland hydrology must be present,
5 cm Mucky Peat or Pe	•	Redux Depressions (FO)	unless disturbed or problematic.
Restrictive Layer (If obse	• •	<del></del>	unless disturbed of problematic.
	-		
		<del></del>	Hydric Soil Present? Yes No
Depth (Inches):		<del>-</del>	
	<del> </del>		
HYDROLOGY			
Wetland Hydrology Indic			
Primary Indicators (minimu	im of one is regulire		
Surface Water (A1)	III AI AIIA IS IBANIK	d; check all that apply)	Secondary indicators (minimum of two required)
	III OI OIIA IO IMANII	d: check all that apply) Water-Stained Leaves (B9)	Secondary indicators (minimum of two required) Surface Soil Cracks (B6)
High Water Table (A2)			
		Water-Stained Leaves (B9)	Surface Soil Cracks (B6)
High Water Table (A2)		Water-Stained Leaves (B9) Aquatic Fauna (B13)	Surface Soil Cracks (B6) Drainage Patterns (B10)
High Water Table (A2) Saturation (A3)	)	Water-Stained Leaves (B9) Aquatic Fauna (B13) True Aquatic Plants (B14)	Surface Soil Cracks (B6) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8)
High Water Table (A2) Saturation (A3) Water Marks (B1)	)	Water-Stained Leaves (B9) Aquatic Fauna (B13) True Aquatic Plants (B14) Hydrogen Sulfide Odor (C1)	Surface Soil Cracks (B6) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8)
High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2)	2)	Water-Stained Leaves (B9)     Aquatic Fauna (B13)     True Aquatic Plants (B14)     Hydrogen Sulfide Odor (C1)     Oxidized Rhizospheres on Living F	Surface Soil Cracks (B6) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Roots (C3) Saturation Visible on Aerial Imagery (C9) Stunted or Stressed Plants (D1)
High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B3)	2)	Water-Stained Leaves (B9)     Aquatic Fauna (B13)     True Aquatic Plants (B14)     Hydrogen Sulfide Odor (C1)     Oxidized Rhizospheres on Living Fauna (C4)	Surface Soil Cracks (B6) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Roots (C3) Saturation Visible on Aerial Imagery (C9) Stunted or Stressed Plants (D1)
High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Drift Deposits (B3) Algal Mat or Crust (B4)	) 2) )	Water-Stained Leaves (B9)     Aquatic Fauna (B13)     True Aquatic Plants (B14)     Hydrogen Sulfide Odor (C1)     Oxidized Rhizospheres on Living Fauna (C4)     Recent Iron Reduction in Tilled So	Surface Soil Cracks (B6)  Drainage Patterns (B10)  Dry-Season Water Table (C2)  Crayfish Burrows (C8)  Roots (C3)  Saturation Visible on Aerial Imagery (C9)  Stunted or Stressed Plants (D1)  Geomorphic Position (D2)
High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Drift Deposits (B3) Algai Mat or Crust (B4) Iron Deposits (B5)	) 2) ) Aerial Imagery (B7)	Water-Stained Leaves (B9)     Aquatic Fauna (B13)     True Aquatic Plants (B14)     Hydrogen Sulfide Odor (C1)     Oxidized Rhizospheres on Living Fauna (C4)     Recent Iron Reduction in Tilled So     Thin Muck Surface (C7)     Gauge or Well Data (D9)	Surface Soil Cracks (B6)  Drainage Patterns (B10)  Dry-Season Water Table (C2)  Crayfish Burrows (C8)  Roots (C3)  Saturation Visible on Aerial Imagery (C9)  Stunted or Stressed Plants (D1)  Geomorphic Position (D2)
High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Drift Deposits (B3) Algai Mat or Crust (B4) Iron Deposits (B6) Inundation Visible on A	) 2) ) Aerial Imagery (B7)	Water-Stained Leaves (B9)     Aquatic Fauna (B13)     True Aquatic Plants (B14)     Hydrogen Sulfide Odor (C1)     Oxidized Rhizospheres on Living Fauna (C4)     Recent Iron Reduction in Tilled Some Thin Muck Surface (C7)     Gauge or Well Data (D9)	Surface Soil Cracks (B6)  Drainage Patterns (B10)  Dry-Season Water Table (C2)  Crayfish Burrows (C8)  Roots (C3)  Saturation Visible on Aerial Imagery (C9)  Stunted or Stressed Plants (D1)  Geomorphic Position (D2)
High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on A Sparsely Vegetated C	2) ) Aerial Imagery (B7) oncave Surface (B	Water-Stained Leaves (B9)     Aquatic Fauna (B13)     True Aquatic Plants (B14)     Hydrogen Sulfide Odor (C1)     Oxidized Rhizospheres on Living Fauna (C4)     Recent Iron Reduction in Tilled So Thin Muck Surface (C7)     Gauge or Well Data (D9)     Other (Explain in Remarks)	Surface Soil Cracks (B6) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Roots (C3) Saturation Visible on Aerial Imagery (C9) Stunted or Stressed Plants (D1) Geomorphic Position (D2)
High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Drift Deposits (B3) Algai Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on A Sparsely Vegetated Co	2) ) Aerial Imagery (B7) oncave Surface (B	Water-Stained Leaves (B9)     Aquatic Fauna (B13)     True Aquatic Plants (B14)     Hydrogen Sulfide Odor (C1)     Oxidized Rhizospheres on Living Fauna (C4)     Recent Iron Reduction in Tilled So Thin Muck Surface (C7)     Gauge or Well Data (D9)     Other (Explain in Remarks)  Depth (Inches):	Surface Soil Cracks (B6)  Drainage Patterns (B10)  Dry-Season Water Table (C2)  Crayfish Burrows (C8)  Roots (C3)  Saturation Visible on Aerial Imagery (C9)  Stunted or Stressed Plants (D1)  Geomorphic Position (D2)
High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on A Sparsely Vegetated Co Field Observations: Surface Water Present? Water Table Present?	2) Aerial Imagery (B7) oncave Surface (B Yes N Yes N	Water-Stained Leaves (B9)     Aquatic Fauna (B13)     True Aquatic Plants (B14)     Hydrogen Sulfide Odor (C1)     Oxidized Rhizospheres on Living Fauna (C4)     Recent Iron Reduction in Tilled Somethin Muck Surface (C7)     Gauge or Well Data (D9)     Other (Explain in Remarks)  Depth (inches):  Depth (inches):	Surface Soil Cracks (B6) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Roots (C3) Saturation Visible on Aerial Imagery (C9) Stunted or Stressed Plants (D1) Dils (C6) Geomorphic Position (D2) FAC-Neutral Test (D5)
High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on A Sparsely Vegetated Co Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe)	2) Aerial Imagery (B7) oncave Surface (B Yes N Yes N	Water-Stained Leaves (B9)     Aquatic Fauna (B13)     True Aquatic Plants (B14)     Hydrogen Sulfide Odor (C1)     Oxidized Rhizospheres on Living Fauna (C4)     Recent Iron Reduction in Tilled So Thin Muck Surface (C7)     Gauge or Well Data (D9)     Other (Explain in Remarks)  Depth (Inches):     Depth (Inches):     Depth (Inches):	Surface Soil Cracks (B6) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Stunted or Stressed Plants (D1) Geomorphic Position (D2) FAC-Neutral Test (D5)  Wetland Hydrology Present? Yes No
High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on A Sparsely Vegetated Co Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe)	2) Aerial Imagery (B7) oncave Surface (B Yes N Yes N	Water-Stained Leaves (B9)     Aquatic Fauna (B13)     True Aquatic Plants (B14)     Hydrogen Sulfide Odor (C1)     Oxidized Rhizospheres on Living Fauna (C4)     Recent Iron Reduction in Tilled Somethin Muck Surface (C7)     Gauge or Well Data (D9)     Other (Explain in Remarks)  Depth (inches):  Depth (inches):	Surface Soil Cracks (B6) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Stunted or Stressed Plants (D1) Geomorphic Position (D2) FAC-Neutral Test (D5)  Wetland Hydrology Present? Yes No
High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on A Sparsely Vegetated Cofield Observations: Surface Water Present? Water Table Present? Saturation Present? Includes capillary fringe) Describe Recorded Data (6)	2) Aerial Imagery (B7) oncave Surface (B Yes N Yes N	Water-Stained Leaves (B9)     Aquatic Fauna (B13)     True Aquatic Plants (B14)     Hydrogen Sulfide Odor (C1)     Oxidized Rhizospheres on Living Fauna (C4)     Recent Iron Reduction in Tilled So Thin Muck Surface (C7)     Gauge or Well Data (D9)     Other (Explain in Remarks)  Depth (Inches):     Depth (Inches):     Depth (Inches):	Surface Soil Cracks (B6) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Stunted or Stressed Plants (D1) Geomorphic Position (D2) FAC-Neutral Test (D5)  Wetland Hydrology Present? Yes No
High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on A Sparsely Vegetated Co Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe)	2) Aerial Imagery (B7) oncave Surface (B Yes N Yes N	Water-Stained Leaves (B9)     Aquatic Fauna (B13)     True Aquatic Plants (B14)     Hydrogen Sulfide Odor (C1)     Oxidized Rhizospheres on Living Fauna (C4)     Recent Iron Reduction in Tilled So Thin Muck Surface (C7)     Gauge or Well Data (D9)     Other (Explain in Remarks)  Depth (Inches):     Depth (Inches):     Depth (Inches):	Surface Soil Cracks (B6) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Stunted or Stressed Plants (D1) Geomorphic Position (D2) FAC-Neutral Test (D5)  Wetland Hydrology Present? Yes No
High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4 Iron Deposits (B5) Inundation Visible on A Sparsely Vegetated Co Field Observations: Surface Water Present? Water Table Present? Saturation Present? Includes capillary fringe) Describe Recorded Data (6)	2) Aerial Imagery (B7) oncave Surface (B Yes N Yes N	Water-Stained Leaves (B9)     Aquatic Fauna (B13)     True Aquatic Plants (B14)     Hydrogen Sulfide Odor (C1)     Oxidized Rhizospheres on Living Fauna (C4)     Recent Iron Reduction in Tilled So Thin Muck Surface (C7)     Gauge or Well Data (D9)     Other (Explain in Remarks)  Depth (Inches):     Depth (Inches):     Depth (Inches):	Surface Soil Cracks (B6) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Stunted or Stressed Plants (D1) Geomorphic Position (D2) FAC-Neutral Test (D5)  Wetland Hydrology Present? Yes No
High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on A Sparsely Vegetated Cofield Observations: Surface Water Present? Water Table Present? Saturation Present? Includes capillary fringe) Describe Recorded Data (6)	2) Aerial Imagery (B7) oncave Surface (B Yes N Yes N	Water-Stained Leaves (B9)     Aquatic Fauna (B13)     True Aquatic Plants (B14)     Hydrogen Sulfide Odor (C1)     Oxidized Rhizospheres on Living Fauna (C4)     Recent Iron Reduction in Tilled So Thin Muck Surface (C7)     Gauge or Well Data (D9)     Other (Explain in Remarks)  Depth (Inches):     Depth (Inches):     Depth (Inches):	Surface Soil Cracks (B6) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Stunted or Stressed Plants (D1) Geomorphic Position (D2) FAC-Neutral Test (D5)  Wetland Hydrology Present? Yes No

WETLAND DETER	RMINATION	DATA FORM	- Midwest Region
Project/Site: W. Forest Hill Ave,	Citysc	county: FVGN	Klin Sampling Date: 9-28-19
Applicant/Owner:		·····	State: WI Sampling Point: #341
Investigator(s):	Section	on, Township, Rar	nge: Sec. 13 TSAI R 21/5
Landform (hillslope, terrace, etc.): hillslope		Local relief (	conceve, convex, none):
Slope (%):	Long:		Datum:
Soil Map Unit Name: D766 100 5 1/1 / 09 H	n Ozac	2	NWI classification:
Are climatic / hydrologic conditions on the site typical for this		es Paul No	
Are Vegetation // Soil // or Hydrology // sk			Normal Circumstances" present? YesNo
Are Vegetation			eded, explain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach site map s		•	•
		ipinig positit	cations, transects, important reatures, etc.
Hydrophytic Vegetation Present? Yes No Hydric Soil Present? Yes No No		is the Sampled	Area
Wetland Hydrology Present? Yes No		within a Wetlan	d? Yes No
Remarks:		L	
<b>VEGETATION</b> – Use scientific names of plants.			
		ninant Indicator	Dominance Test worksheet:
Tree Stratum (Plot size:)	% Cover Spe	cles? Status	Number of Dominant Species
2 Acer neglado	<del></del>	FAL	That Are OBL, FACW, or FAC:
27.57.7.4			Total Number of Dominant Species Across All Strata: (B)
4.			
5.			Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)
	3 = To	tai Coyer	
Sapilag/Shrub Stratum (Plot size: )	20	1 210	Prevalence index worksheet:
1. Cornas Pale Mosa		140	Total % Cover of:Multiply by:
3. Rhas tunhina		1 IPC	OBL species x1 = 70 FACW species X5 x2 = 70
3. JOHAS TYPETING			FAC species 6 x 3 = 195
6		<del></del>	FACU species 90 x4= 36 0
	25 = 10	tal Cover	UPL species x5= 2.5
Herb Stratum. (Plot size:)	14		Column Totals: 205 (A) 670 (B)
1. MO/1 deju CANGGENSIS	90 1	FALL	200
2. 1.00000000000000000000000000000000000	75	5-776	Prevalence Index = B/A = 3,3
3. Fragaria Virginiana	<del>\ 7</del>	FACG	Hydrophytic Vegetation Indicators:
5. Erijeron ammul	75	FAIL.	1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50%
5		1 19 (N	3 - Prevalence Index is ≤3.0¹
7. Kathania Siemini VIII	75	FOIW	4 - Morphological Adaptations¹ (Provide supporting
8. Sta phiotocham novee-anglice	75	FACL	data in Remarks or on a separate sheet)
9. Pod Protensu	40 -	FAC	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
10. Solidoro KIIGHTEA	20	FACH	1.
1 3 0	175 - TO	tal Cover	Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
Woody Vine Stratum (Plot size:)			
1	<del></del>	<del></del>	Hydrophytic Vegetation
2	= To	tal Cover	Present? Yes No
Remarks: (Include photo numbers here or on a separate s			I

		7
Sampling	Point:	ے

epth Matrix nches) Color (moist)	<u> </u>	Redo Color (moist)	x Features	Loc <sup>2</sup> T	exture		Remarks	
~ NJD 719	<del></del>				TEL	16		
-9 N-123/2	700					an		
24 101r3/4	100				44			
pe: C=Concentration, D=Dep dric Soit Indicators: Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A6)	etion, RM=Red	Sandy ( Sandy I Stripped Loamy	S=Masked Sand Gr Gleyed Matrix (S4) Redox (S5) d Matrix (S6) Mucky Mineral (F1) Gleyed Matrix (F2)	lr 	idicators ( Coast F Dark Su Iron-Ma Very St	for Problem Prairie Redo urface (S7) unganese M	asses (F12) Surface (TF1	Soils³:
2 cm Muck (A10) Depleted Below Dark Surface Thick Dark Surface (A12) Sandy Mucky Mineral (S1) 5 cm Mucky Peat or Peat (Sistrictive Layer (If observed):	3)	Deplete	od Matrix (F3) Dark Surface (F6) od Dark Surface (F7) Depressions (F8)	') <sup>3</sup>	wetland	hydrology	rtic vegetation must be pres r problematic	ent,
				1				_
Type: Depth (inches):				H	vdric Soil	Present?	Yes	No
Type: Depth (Inches): marks:				H	rdric Soil	Present?	Yes	No
Type: Depth (Inches): emerks:  DROLOGY  etland Hydrology Indicators:		check all that a	nnty)	H				
Type:	ne is required:	Water-Sta Aquatic F True Aqua Hydrogen Oxidized Presence Recent in Thin Muci	ained Leaves (B9) auna (B13) atic Plants (B14) sulfide Odor (C1) Rhizospheres on Li of Reduced Iron (C on Reduction in Tilli k Surface (C7) Well Data (D9)	ving Roots (C3)	Seconda Surfi Drail Dry Cray Satu Stun Geo	ny indicator ace Soil Cra nage Patter Season Wa rfish Burrow tration Visib	s (minimum s acks (B6) ns (B10) ter Table (C2 rs (C8) le on Aerial le ased Plants (i sition (D2)	of two required
Type: Depth (Inches): Depth (Inches): DROLOGY  etiand Hydrology Indicators: imary Indicators (minimum of c Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B6) Inundation Visible on Aerial Sparsely Vegetated Concav	ne is required:	Water-Sta Aquatic F True Aqua Hydrogen Oxidized Presence Recent in Thin Muci	ained Leaves (B9) auna (B13) atic Plants (B14) sulfide Odor (C1) Rhizospheres on Li of Reduced Iron (C on Reduction in Tilla k Surface (C7)	ving Roots (C3)	Seconda Surfi Drail Dry Cray Satu Stun Geo	ny indicators ace Soil Cra nage Patter Season Wa rfish Burrow iration Visib ated or Stres morphic Po	s (minimum s acks (B6) ns (B10) ter Table (C2 rs (C8) le on Aerial le ased Plants (i sition (D2)	of two required
Type:	ne is required: Imagery (B7) s Surface (B8)	Water-Sta Aquatic F True Aqua Hydrogen Oxidized Presence Recent in Thin Muci	ained Leaves (B9) auna (B13) atic Plants (B14) sulfide Odor (C1) Rhizospheres on Li of Reduced Iron (C on Reduction in Tilli k Surface (C7) Well Data (D9)	ving Roots (C3) :4) ed Solls (C6)	Seconda Surfi Drail Dry Cray Satu Stun Geo	ny indicators ace Soil Cra nage Patter Season Wa rfish Burrow iration Visib ated or Stres morphic Po	s (minimum s acks (B6) ns (B10) ter Table (C2 rs (C8) le on Aerial I ased Plants (i sition (D2)	of two required
Type:	me is required: Imagery (B7) e Surface (B8)	Water-Sta Aquatic F. True Aquatic F. Hydrogen Oxidized Presence Recent in Thin Muci Gauge or Other (Ex	ained Leaves (B9) auna (B13) attlc Plants (B14) sulfide Odor (C1) Rhizospheres on Li of Reduced Iron (Con Reduction in Tilli k Surface (C7) Well Data (D9) splain in Remarks) anches):	ving Roots (C3) :4) ed So∦s (C6)	Seconda Surfi Drail Dry- Cray Satu Stun Geo	ry indicators ace Soil Cra nage Patter Season Wa rish Burrow ration Visib sted or Stres morphic Po	s (minimum c acks (B6) ns (B10) ter Table (C2 is (C8) le on Aerial II ased Plants (I sition (D2) st (D5)	of two required
Type:	Imagery (B7) 8 Surface (B8) Yes No Yes No	Water-Sta Aquatic F True Aqua Hydrogen Oxidized Presence Recent in Thin Muci Gauge or Other (Ex	ained Leaves (B9) auna (B13) atic Plants (B14) sulfide Odor (C1) Rhizospheres on Li of Reduced Iron (C on Reduction in Tillia k Surface (C7) Well Data (D9) splain in Remarks) anches):	ving Roots (C3) 24) ed Soils (C6)  Wetland	Seconda Surfi Drail Dry Cray Satu Stun Geo FAC	ny indicators ace Soil Cra nage Patter Season Wa rfish Burrow iration Visib ated or Stres morphic Po	s (minimum c acks (B6) ns (B10) ter Table (C2 is (C8) le on Aerial II ased Plants (I sition (D2) st (D5)	of two required
Type: Depth (Inches): Demarks:  POROLOGY  Vetland Hydrology Indicators: Inmary Indicators (minimum of of Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algai Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Sparsely Vegetated Concaviteld Observations: Surface Water Present?	Imagery (B7) 8 Surface (B8) Yes No Yes No	Water-Sta Aquatic F True Aqua Hydrogen Oxidized Presence Recent in Thin Muci Gauge or Other (Ex	ained Leaves (B9) auna (B13) atic Plants (B14) sulfide Odor (C1) Rhizospheres on Li of Reduced Iron (C on Reduction in Tillia k Surface (C7) Well Data (D9) splain in Remarks) anches):	ving Roots (C3) 24) ed Soils (C6)  Wetland	Seconda Surfi Drail Dry Cray Satu Stun Geo FAC	ry indicators ace Soil Cra nage Patter Season Wa rish Burrow ration Visib sted or Stres morphic Po	s (minimum c acks (B6) ns (B10) ter Table (C2 is (C8) le on Aerial II ased Plants (I sition (D2) st (D5)	of two required

EILAND DE I ERMINA HUI	N DATA FURING	- inidwest region
Ave, Cin	County: FVGU	Kalin Sampling Date: 9-28-
	, , , , , , , , , , , , , , , , , , , ,	State: WI Sampling Point: # 4
	tion Township Dan	
, , , , , ,	-	
1// 9/ 9/16	Local relief (	concave, convex, none):
	:	NWI classification: NTM
	(4.2.	TTTT Gradultaria
		(If no, explain in Remarks.)
rlydrology significantly dist	turbed? Are "N	Normal Circumstances" present? Yes No
Hydrology naturally proble	matic? (If nee	eded, explain any answers in Remarks.)
Mach aite man abaudan ar	mulina maint la	anting transports important factures of
reach site map showing se	impling point to	cations, transects, important leatures, e
Yes No	In the Complet	A
- ASSES	1	
Yes No	within a wettan	d? Yes No No
names of plants.		
Absolute D	ominant indicator	Dominance Test worksheet:
) <u>% Cover_S</u>	pecies? Status	Number of Dominant Species
<del></del>	100	That Are OBL, FACW, or FAC: (A)
	PIKW	Total Number of Dominant
	-	Species Across All Strata: (B)
TICK	1-3C	Percent of Dominant Species
		That Are OBL, FACW, or FAC: (A/
· <u>'J</u> =1	Total Cover	Prevalence index worksheet:
)	FACIA	
		OBL species x1 =
		FACW species x 2 =
		FACULTURE X3 =
		FACU species x 4 =
<u>()</u> =1	ا بر،	UPL species x 5 =
adensis 15	FALL	Column Totals: (A) (E
		Prevalence Index = B/A =
106	FACW	Hydrophytic Vegetation indicators:
		1 - Rapid Test for Hydrophytic Vegetation
70	FAC	2 - Dominance Test is >50%
		3 - Prevalence Index is ≤3.0°
45	1 FAC	4 - Morphological Adaptations (Provide supporti
	/	data in Remarks or on a separate sheet)
77	FAC	Problematic Hydrophytic Vegetation¹ (Explain)
	•	
	Fotal Cover	¹Indicators of hydric soil and wetland hydrology must
)	Julian Cuver	be present, unless disturbed or problematic.
	1	
		Hydrophytic
		Hydrophytic Vegetation
	Fotal Cover	
	Service Service Solution Service State typical for this time of year?  Hydrology N significantly distributed by the stack site map showing services No Yes N	Section, Township, Rar  Local relief (  Long:  Siff oan Oza B)  The site typical for this time of year? Yes Park No  Hydrology N significantly disturbed? Are " Hydrology N naturally problematic? (If ne  Itach site map showing sampling point to  Yes No  Yes No  Yes No  Absolute Dominant indicator  % Cover Species? Status  Thus  T

00	
SU	IIL.

Sampling Point:

Profile Des	cription: (Describe	to the dep	th needed to docum	nent the i	ndicator	or confir	rm the absence of indicators.)
Depth	Matrix			x Feature	8		_
(inches)	Color (moist)	%	Color (moist)	%	_Type'	Loc <sup>2</sup>	Texture Remarks
0-7	104R3/2	700	<u></u>				Siltloan
		<del>,</del>					
			777577		. <del></del>	- <del></del>	
7-110	101/2 3/3	98	10-12-416	2	C	M	5)/ + 10am
			<del></del>			•	
						·	
	. <del> </del>					· <del></del>	
16-24	104R 4/4	98	124/24/6	2	۲.	M	clayloam
	Concentration, D=Dep	lation DM		2-Mackey	Sond G	raine	<sup>2</sup> Location: PL=Pore Lining, M=Matrix.
	I Indicators:	IBUOTI, INIVI	-Lengon Mattix' MC	3-MICIONOL	Janu G	<u>au 15.</u>	indicators for Problematic Hydric Solls <sup>3</sup> :
			A	N	. 4-1 / <b>^</b> 4\		·
Histos	• •			Sleyed Ma			Coast Prairie Redox (A16)
1 —	Epipedon (A2)			Redox (S5	•		Dark Surface (S7)
ı <del></del>	Histic (A3)			Matrix (S	-		Iron-Manganese Masses (F12)
	gen Sulfide (A4)			Mucky Mi			Very Shallow Dark Surface (TF12)
l .	ed Layers (A5)			Gleyed M			Other (Explain in Remarks)
_	fuck (A10)	(844)		d Matrix (	-		
	ed Below Dark Surfac	e (A11)		Dark Surfa			1. a
	Dark Surface (A12)			d Dark St	•	")	Indicators of hydrophytic vegetation and
· — ·	Mucky Mineral (S1)		Redox I	Depressio	ns (F8)		wetland hydrology must be present,
	tucky Peat or Peat (S						unless disturbed or problematic.
Restrictive	Layer (if observed):						
Туре: _			<del></del>				Mudda 0-11 Danas May
Depth (i	nches):						Hydric Soil Present? Yes No
HYDROL	OGY						
Wetland H	ydrology Indicators:	··· ··· · · · · · · · · · · · · · · ·	<del></del>	<del>~~~~</del>	····	<del></del>	
Primary Inc	licators (minimum of c	ne is requ	ired: check all that ac	(vlac			Secondary indicators (minimum of two required
i —	e Water (A1)		Water-Sta		(BQ (RQ)		Surface Soil Cracks (B6)
1	Vater Table (A2)		Aquatic Fa				Drainage Patterns (B10)
. –			-	•	•		
	tion (A3)		True Aqua				Dry-Season Water Table (C2)
l —	Marks (B1)		Hydrogen				Crayfish Burrows (C8)
1 —	ent Deposits (B2)		Oxidized F	•		•	
. —	eposits (B3)		Presence			•	Stunted or Stressed Plants (D1)
Algai N	flat or Crust (B4)		Recent Iro	n Reduct	ion in Till	ed Solls (C	
Iron D	eposita (B5)		Thin Muck	Surface	(C7)		FAC-Neutral Test (D5)
Inunda	ition Visible on Aeriai I	lmagery (E	37) Gauge or	Well Date	(D9)		
Sparse	ely Vegetated Concave	e Surface	(B8) Other (Exp	olain in Re	emarks)		
Field Obse	rvations:						
Surface W	ster Present? Y	68	No Depth (in	ches):			
Water Tab	e Present? Y	'es	No Depth (in	ches):			
Saturation			No Depth (in				etland Hydrology Present? Yes No
(includes c	apillary fringe)						
Describe R	ecorded Data (stream	gauge, m	onitoring well, aerial :	photos, p	revious ir	spections	s), if available:
Remarks:	<del></del>		<del></del>				
rvonianas.							
1							
1							

WETLAND DETER	IMINATION (	DATA FORM -	- Midwest Region
Project/Site: W. Forest Hill Ave,	(citylci	ounty: <i>FV6</i> 1	Klin Sampling Date: 9-28-19
Applicant/Owner:			State: War Sampling Point: FF 5 41
Investigator(s):	Section Section	on, Township, Ran	nge: Sec.13 TSAI R 21E
Landform (hillslope, terrace, etc.): ///s/onc		Local relief (	concave, convex, none):
Slope (%):	Long:		Datum:
	M OZGI	Large Ch	NWI classification: Alme
Are climatic / hydrologic conditions on the site typical for this	time of year? You	AS PENT PNO	• • • • • • • • • • • • • • • • • • • •
Are Vegetation, Soil, or Hydrotogy sign			Normal Circumstances" present? Yes No
Are Vegetation			eded, explain any answers in Remarks.)
		•	•
SUMMARY OF FINDINGS - Attach site map s	howing sam	pling point to	cations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No		to the Sampled	A
Hydric Soil Present? Yes No		is the Sampled within a Wetland	å
Wetland Hydrology Present? Yes No Remarks:		Willia Trongin	QT 165NV
ronano.			
VEGETATION – Use scientific names of plants.			**************************************
	Absolute Dom	ninant indicator	Dominance Test worksheet:
1	% Cover Spec		Number of Dominant Species
2. Fratinhs appealant	30	F-NC4	That Are OBL, FACW, or FAC: (A)
Malus Damila	<del>//&gt;</del> -		Total Number of Dominant
4. Julians micks	10 V	FACU	Species Across All Strata: (B)
5. Rhampus cethartica	<u> </u>	FAC	Percent of Dominant Species
0	85 = Tot	al Cover	That Are OBL, FACW, or FAC: (A/B)
Sapling/Shrub Stratum (Ptot size: // )	/^		Prevalence Index worksheet:
1. Conicera + Bella	10	- FACU	Total % Cover of:Multiply by:
2. Monni americana	10_	- FACW	OBL species x1=
3. Khanny schortica 4. Latthorylum americanum	7	UPL	FACW species x 2 =
5 Popul actionalis	93	NPL	FAC species x3 = FACU species x 4 =
Curnus racemosa	7.1 = The	CoverFAL	UPL species x 5 =
Herb Stratum (Plot size:)	108 6	ai Coverpore C	Column Totals: (A) (B)
1.			(5)
2 Carex Blance	7	EAC	Prevalence index = B/A =
3.		= 1	Hydrophytic Vegetation indicators:
4. Sym phyo trighum novae. Gaylia	<u>e d</u>	I-D(W	1 - Rapid Test for Hydrophytic Vegetation
6 State Canadensi	73	1-A14	2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.01
6. Solisto Canaceniii	<u> </u>	1-14.01	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
6. Simphyotrichum lateritlurum	5-	FAIW	data in Remarks or on a separate sheet)
9			Problematic Hydrophytic Vegetation1 (Explain)
10-Um phyotrichum Sacittitiun	70	UPL	
711	\$2_ = Tot	al Cover	Indicators of hydric soil and watland hydrology must be present, unless disturbed or problematic.
Woody Vine Stratum (Plot size:)	<del></del>	ļ	no present, umoss disturbed of presidentatio.
1		<del></del>	Hydrophytic Vegetation
2		tal Cover	Present? Yes No
Remarks: (Include photo numbers here or on a separate si		ai Cover	<u> </u>
	,		

•	-	
•	rı	

		_
Sampling	Point:	

epth Matrix nches) Color (moist) %	Color (moist)	%	_Type'	Loc2	Texture		Remarks
	_						
-8 10/R 3/2 100					SITI	Dan	
	_ ·					,	
-16 10 1R 3/3 98	704R4/6	2	7	n	51/2/	Dan	
-24 2544/3 95	10 4R 4/6	-		16	CIL	l- Dan	
87 6.3 113 13	10 110 110			<u> </u>	3///	VOITE	<u> </u>
C-Cturken C-C	NA - Parking and Adaptive Add					: PL=Pore Link	\$4-\$4-\$4-
pe: C=Concentration, D=Depletion, F dric Soil Indicators:	M=Reduced Matrix, IM	-waskeo	Sano Gr	uns.			ic Hydric Solis <sup>3</sup> :
Histosol (A1)	Sandy (	Sleyed Ma	trix (S4)			Prairle Redox (	•
Histic Epipedon (A2)		Redox (S5				Surface (S7)	,
Black Histic (A3)	Stripper	i Matrix (S	6)		Iron-M	anganese Mass	ses (F12)
Hydrogen Sulfide (A4)	Loamy	Mucky Mir	neral (F1)		Very S	hallow Dark Su	rface (TF12)
Stratified Layers (A5)		Gleyed Ma			Other	(Explain in Rem	arks)
2 cm Muck (A10)		d Matrix (I	-				
Depleted Below Dark Surface (A11)	_	Dark Surfa			3,	and have a least of	
Thick Dark Surface (A12) Sandy Mucky Mineral (S1)		d Dark Su	•	)			vegetation and
5 cm Mucky Peat or Peat (83)	Kedox i	Depression	118 (FQ)			d hydrology mu: disturbed or pr	•
strictive Layer (If observed):					diliess	disturbed of pr	ODIE[HALIC.
Type:							
					Hydric Soil	Present? Ye	88 No <u>-</u>
Depth (Inches):marks:							
marks:							
merks:  DROLOGY  Itland Hydrology Indicators:							
merks:  DROLOGY  Itland Hydrology Indicators:  mary Indicators (minimum of one is re							ninimum of two reguli
DROLOGY  httand Hydrology Indicators: mary Indicators (minimum of one is re Surface Water (A1)	Water-Sta	ined Leav	•		Sur	ace Soil Crack	s (B6)
DROLOGY  Itland Hydrology Indicators: mary Indicators (minimum of one is re Surface Water (A1) High Water Table (A2)	Water-Sta	ined Leav suna (B13	)		Sur Dra	face Soil Cracks Inage Patterns	s (B6) (B10)
DROLOGY  Itland Hydrology Indicators: mary Indicators (minimum of one is re Surface Water (A1) High Water Table (A2) Saturation (A3)	Water-Sta Aquatic Fa True Aqua	ined Leav auna (B13 itic Plants	) (B14)		Sur Dra Dry	face Soil Cracks Inage Patterns Season Water	s (B6) (B10) Table (C2)
DROLOGY  International Hydrology Indicators:  International Hydrology Indicators:  International Hydrology Indicators:  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)	Water-Sta Aquatic Fo True Aqua Hydrogen	ined Leav auna (B13 itic Plants Suifide Or	) (B14) dor (C1)		Sur Dra Dry Cra	iace Soil Crack: inage Patterns Season Water yfish Burrows (	s (B6) (B10) Table (C2) C8)
marks:  DROLOGY  stand Hydrology Indicators: mary Indicators (minimum of one is re Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2)	Weter-Sta Aquatic Fa True Aqua Hydrogen Oxidized I	ined Leav suna (B13 itic Plants Suifide Oi Rhizosphe	) (B14) dor (C1) eres on Liv	-	Sur Dra Cra (C3) Sat	iace Soil Cracks inage Patterns Season Water yfish Burrows (Guration Visible o	s (B6) (B10) Table (C2) C8) In Aerial Imagery (C9
marks:  DROLOGY  stand Hydrology Indicators: mary Indicators (minimum of one is re Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3)	Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized I	ined Leave suna (B13 etic Plants Suifide Or Rhizosphe of Reduce	) (B14) dor (C1) ares on Liv ad Iron (C	4)	Sur Dra Dry Cra (C3) Sat Stu	face Soil Cracks inage Patterns Season Water yfish Burrows (6 uration Visible conted or Stressen	s (B6) (B10) Table (C2) C8) In Aerial Imagery (C9 d Plants (D1)
marks:  DROLOGY  International Hydrology Indicators:  mary Indicators (minimum of one is referred by the second of	Water-Sta Aquatic Formula Aquatic Fo	ined Leave auna (B13 atic Plants Sulfide Oc Rhizosphe of Reduce on Reducti	) (B14) dor (C1) ares on Lived Iron (C on in Tille	-	Sur Dra Dry Cra Sat Stu Geo	face Soil Cracks inage Patterns -Season Water yfish Burrows (( uration Visible o nted or Stresser morphic Postik	s (B6) (B10) Table (C2) C8) on Aerial Imagery (C9 d Plants (D1) on (D2)
marks:  DROLOGY  stand Hydrology Indicators: mary Indicators (minimum of one is re Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5)	Water-Sta Aquatic Formula Aqua	ined Leave auna (B13 atic Plants Sulfide Or Rhizosphe of Reduce on Reducti s Surface (	) (B14) dor (C1) les on Lived do Iron (C on in Tille (C7)	4)	Sur Dra Dry Cra Sat Stu Geo	face Soil Cracks inage Patterns Season Water yfish Burrows (6 uration Visible conted or Stressen	s (B6) (B10) Table (C2) C8) on Aerial Imagery (C9 d Plants (D1) on (D2)
marks:  DROLOGY  Intiand Hydrology Indicators:  mary Indicators (minimum of one is re  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Inundation Visible on Aerial Imagery	Water-Sta Aquatic Fi True Aqua Hydrogen Oxidized I Presence Recent Inc Thin Muck	ined Leave auna (B13 atic Plants Sulfide Or Rhizosphe of Reduce on Reducti a Surface ( Well Data	(B14) dor (C1) eres on Lived Iron (Con in Tille (C7) (D9)	4)	Sur Dra Dry Cra Sat Stu Geo	face Soil Cracks inage Patterns -Season Water yfish Burrows (( uration Visible o nted or Stresser morphic Postik	s (B6) (B10) Table (C2) C8) on Aerial Imagery (C9 d Plants (D1) on (D2)
DROLOGY  stland Hydrology Indicators: mary Indicators (minimum of one is re Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery Sparsely Vegetated Concave Surface	Water-Sta Aquatic Fi True Aqua Hydrogen Oxidized I Presence Recent Inc Thin Muck	ined Leave auna (B13 atic Plants Sulfide Or Rhizosphe of Reduce on Reducti a Surface ( Well Data	(B14) dor (C1) eres on Lived Iron (Con in Tille (C7) (D9)	4)	Sur Dra Dry Cra Sat Stu Geo	face Soil Cracks inage Patterns -Season Water yfish Burrows (( uration Visible o nted or Stresser morphic Postik	s (B6) (B10) Table (C2) C8) on Aerial Imagery (C9 d Plants (D1) on (D2)
DROLOGY  atland Hydrology Indicators: mary Indicators (minimum of one is re Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery Sparsely Vegetated Concave Surfaceld Observations:	Water-Sta  Aquatic Fi True Aqua Hydrogen Oxidized I Presence Recent Inc Thin Much (B7) Gauge or De (B8) Other (Ex	ined Leav auna (B13 atlic Plants Sulfide Or Rhizosphe of Reduce on Reducti s Surface ( Well Data plain in Re	(B14) dor (C1) eres on Lived Iron (Con in Tille (C7) (D9)	4)	Sur Dra Dry Cra Sat Stu Geo	face Soil Cracks inage Patterns -Season Water yfish Burrows (( uration Visible o nted or Stresser morphic Postik	s (B6) (B10) Table (C2) C8) on Aerial Imagery (C9 d Plants (D1) on (D2)
DROLOGY  Stiand Hydrology Indicators: many Indicators (minimum of one is re Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery Sparsely Vegetated Concave Surface Water Present?  Yes	Water-Sta Aquatic Formatte For	ined Leav auna (B13 allo Plants Sulfide Or Rhizosphe of Reduce on Reducti Surface ( Well Data plain in Re	(B14) dor (C1) eres on Lived Iron (Con in Tille (C7) (D9)	4)	Sur Dra Dry Cra Sat Stu Geo	face Soil Cracks inage Patterns -Season Water yfish Burrows (( uration Visible o nted or Stresser morphic Postik	s (B6) (B10) Table (C2) C8) on Aerial Imagery (C9 d Plants (D1) on (D2)
DROLOGY  atland Hydrology Indicators: mary Indicators (minimum of one is re Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery Sparsely Vegetated Concave Surface ald Observations: Irface Water Present? Yes  ater Table Present? Yes	Water-Sta Aquatic Formation Aquatic Formation True Aquatic Hydrogen Oxidized In Presence Recent Inc Thin Much (B7) Gauge or De (B8) Other (Ex	ined Leav auna (B13 alic Plants Sulfide Or Rhizosphe of Reduce on Reducti surface ( Well Data plain in Re ches):	(B14) dor (C1) eres on Lived Iron (Con in Tille (C7) (D9)	4) ad Soils (C	Sur Dra Dry Cra (C3) Sat Stu 6) Geo	face Soil Cracks inage Patterns -Season Water yfish Burrows (i uration Visible c nted or Stresser morphic Positic C-Neutral Test (	s (B6) (B10) Table (C2) C8) on Aerial Imagery (C9 d Plants (D1) on (D2) D5)
DROLOGY atiand Hydrology Indicators: many Indicators (minimum of one is re Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery Sparsely Vegetated Concave Surface and Observations: urface Water Present? Attention Present? Attentio	Water-Sta Aquatic Fi True Aqua Hydrogen Oxidized I Presence Recent inc Thin Muck (B7) Gauge or e (B8) Other (Ex No Depth (in	ined Leav auna (B13 atic Plants Sulfide Or Rhizosphe of Reduce on Reducti a Surface ( Well Data plain in Re ches): ches):	(B14)	4) ad Soils (C	Sur Dra Dry Cra (C3) Sat Stu 6) Gec FAC	face Soil Cracks inage Patterns -Season Water yfish Burrows (( uration Visible o nted or Stresser morphic Postik	s (B6) (B10) Table (C2) C8) on Aerial Imagery (C9 d Plants (D1) on (D2) D5)
etiand Hydrology Indicators: imary Indicators (minimum of one is re Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposite (B5) Inundation Visible on Aerial Imagery Sparsely Vegetated Concave Surface eld Observations: urface Water Present? Yes	Water-Sta Aquatic Fi True Aqua Hydrogen Oxidized I Presence Recent inc Thin Muck (B7) Gauge or e (B8) Other (Ex No Depth (in	ined Leav auna (B13 atic Plants Sulfide Or Rhizosphe of Reduce on Reducti a Surface ( Well Data plain in Re ches): ches):	(B14)	4) ad Soils (C	Sur Dra Dry Cra (C3) Sat Stu 6) Gec FAC	face Soil Cracks inage Patterns -Season Water yfish Burrows (i uration Visible c nted or Stresser morphic Positic C-Neutral Test (	s (B6) (B10) Table (C2) C8) on Aerial Imagery (C9 d Plants (D1) on (D2) D5)
DROLOGY  atland Hydrology Indicators: imary Indicators (minimum of one is re Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery Sparsely Vegetated Concave Surface and Observations: Inface Water Present? Atlanta Table Present?  Atlanta Table Pre	Water-Sta Aquatic Fi True Aqua Hydrogen Oxidized I Presence Recent inc Thin Muck (B7) Gauge or e (B8) Other (Ex No Depth (in	ined Leav auna (B13 atic Plants Sulfide Or Rhizosphe of Reduce on Reducti a Surface ( Well Data plain in Re ches): ches):	(B14)	4) ad Soils (C	Sur Dra Dry Cra (C3) Sat Stu 6) Gec FAC	face Soil Cracks inage Patterns -Season Water yfish Burrows (i uration Visible c nted or Stresser morphic Positic C-Neutral Test (	s (B6) (B10) Table (C2) C8) on Aerial Imagery (C9 d Plants (D1) on (D2) D5)
DROLOGY atland Hydrology Indicators: Imary Indicators (minimum of one is re Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery Sparsely Vegetated Concave Surface and Observations: Irface Water Present? Interaction Presen	Water-Sta Aquatic Fi True Aqua Hydrogen Oxidized I Presence Recent inc Thin Muck (B7) Gauge or e (B8) Other (Ex No Depth (in	ined Leav auna (B13 atic Plants Sulfide Or Rhizosphe of Reduce on Reducti a Surface ( Well Data plain in Re ches): ches):	(B14)	4) ad Soils (C	Sur Dra Dry Cra (C3) Sat Stu 6) Gec FAC	face Soil Cracks inage Patterns -Season Water yfish Burrows (i uration Visible c nted or Stresser morphic Positic C-Neutral Test (	s (B6) (B10) Table (C2) C8) on Aerial Imagery (C9 d Plants (D1) on (D2) D5)

	E I FUND DE I EKMINATION	I DATA FORM - Midwest Region	
Project/Site: W. Forest Hill	Ave, City	County: FVANKlin	Sampling Date: 9-28-19
Applicant/Owner:		State: WI	Sampling Point: # 641
Investigator(s):	/ // Sec	lion, Township, Range: Sec. 13 T	SN R 21F
Landform (hillslope, terrace, etc.):	hilslope	Local relief (concave, convex, none	con ved
Slope (%): = 3 Let:		-	Datum:
	pesilation Oza	. <i>F</i> 9	11 1000 1
		( # A.	Cauon.
		Yes No (If no, explain in	
Are Vegetation, Soil, or			present? Yes No
Are Vegetation, Soil, or	Hydrology naturally problem	natic? (If needed, explain any answ	ers in Remarks.)
SUMMARY OF FINDINGS - A	ttach site map showing sa	mpling point locations, transect	s, important features, etc.
Hydrophytic Vegetation Present?	Yes No	1- 1- 2	
Hydric Soil Present?	Yes No	Is the Sampled Area	
Wetland Hydrology Present?	Yes No	within a Wetland? Yes	No
Remarks:			
VEGETATION - Use scientific	names of plants.		
	Absolute Do	minant Indicator   Dominance Test wor	ksheet:
Tree Stratum (Plot size:		secies2 Status Number of Dominant	Species (/
1. Frading ampric	-8468 23	/-/d ( That Are OBL, FACW	, or FAC: (A)
2.		FAU Total Number of Dom	
3. Juylans Migra		Species Across All St	reta: (B)
4. 14/10-11 610-4 × 661		FOW Percent of Dominant :	Species / 7
5. Ulmus and ricani		IIME AIR OBL, PACY	or FAC: 6 (A/B)
Sapling/Shrub Stratum (Plot size:	- <u>6-3</u> T	otal Cover Prevalence Index wo	rksheet:
1. Chatherns CHS-	10 -	Total % Cover of:	Multiply by:
2. Rhamhal Cothe	Stice 25	FAC OBL species	x1=
3. Ulmul american		FACW species	x2=
4		FAC species	x3=
6		FACU species	×4=
	<u>40</u> = To	otal Cover UPL species	x5=
Herb Stratum (Plot size:	)	Column Totals:	(A) (B)
1. FACTORIO DICKIN	144 10	Prevalence Inde	x = B/A =
2. / / / / / / / / / / / / / / / / / / /	1	Hydrophytic Vegetal	
4. Phamoni cither	tice 18		Hydrophytic Vegetation
5 - 1		2 - Dominance Te	
8 Didela DI ante	4	FA(W) _ 3 - Prevalence In	_
7. 0		4 - Morphological	Adaptations <sup>1</sup> (Provide supporting
& Geum Canedense	50 -	data in Remar	ks or on a separate sheet)
9			ophytic Vegetation <sup>1</sup> (Explain)
10. ASIOITISSIFANTEE	30 .	FAW.	
0 01	7/D =T	Indicators of hydric s	oil and watland hydrology must turbed or problematic.
Managha Mana Chantainn 1891 at almas		be present, unless als	nuived of problematic.
Woody Vine Stratum (Plot size:		1	
1		Hydrophytic	
		Vegetation	es No
1			es No

•	^		
3	u	ш	┕

Sampling Point:	6

rofile Description: (Describe to the dept Depth Matrix	Redox Features	
inches) Color (moist) %	Color (moist) % Type L	oc <sup>2</sup> Texture Remarks
	•	,
)-15 /UTR 3/2/UD		siltloan
7.3 10 17=31= 700		<u> </u>
5-24 10-12314 100		Clantoan
		<del>- 7 - 7 - 7 - 7 - 7 - 7 - 7 - 7 - 7 - 7</del>
	Reduced Matrix, MS=Masked Sand Grains	. <sup>2</sup> Location: PL=Pore Lining, M=Matrix.
lydric Soil indicators:		indicators for Problematic Hydric Soils <sup>3</sup> :
Histosot (A1)	Sandy Gleyed Matrix (S4)	Coast Prairie Redox (A16)
Histic Epipedon (A2)	Sandy Redox (S5)	Dark Surface (S7)
Black Histic (A3)	Stripped Matrix (S6)	Iron-Manganese Masses (F12)
Hydrogen Sulfide (A4)	Loamy Mucky Mineral (F1)	Very Shallow Dark Surface (TF12)
Stratified Layers (A6)	Loamy Gleyed Matrix (F2)	Other (Explain in Remarks)
2 cm Muck (A10) Depleted Below Dark Surface (A11)	Depleted Matrix (F3)	
Depleted Below Dark Surface (A11) Thick Dark Surface (A12)	Redox Dark Surface (F6) Depleted Dark Surface (F7)	<sup>3</sup> Indicators of hydrophytic vegetation and
Sandy Mucky Mineral (S1)	Redox Depressions (F8)	wetland hydrology must be present,
5 cm Mucky Peat or Peat (S3)	TOGON DOPIGOSIONS (1 0)	unless disturbed or problematic.
lestrictive Layer (if observed):		
Type:		
Depth (inches):	····	Hydric Soil Present? Yes No
Remarks:		
YDROLOGY		
YDROLOGY Wetland Hydrology Indicators:	rad: about all that apply)	Secondary Indicators (minimum of two require
YDROLOGY Netland Hydrology Indicators: Primary indicators (minimum of one is requi		Secondary Indicators (minimum of two require
YDROLOGY Netland Hydrology Indicators: Primary Indicators (minimum of one is requi Surface Water (A1)	Water-Stained Leaves (B9)	Surface Soil Cracks (B6)
YDROLOGY  Netland Hydrology Indicators:  Primary Indicators (minimum of one is requi  Surface Water (A1)  High Water Table (A2)	Water-Stained Leaves (B9) Aquatic Fauna (B13)	Surface Soil Cracks (B6) Drainage Patterns (B10)
YDROLOGY  Netland Hydrology Indicators:  Primary Indicators (minimum of one is requi  Surface Water (A1)  High Water Table (A2)  Saturation (A3)	Water-Stained Leaves (B9) Aquatic Fauna (B13) True Aquatic Plants (B14)	<ul><li>Surface Soil Cracks (B6)</li><li>Drainage Patterns (B10)</li><li>Dry-Season Water Table (C2)</li></ul>
YDROLOGY  Netland Hydrology Indicators:  Primary Indicators (minimum of one is requi  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)	Water-Stained Leaves (B9) Aquatic Fauna (B13) True Aquatic Plants (B14) Hydrogen Sulfide Odor (C1)	<ul> <li>Surface Soil Cracks (B6)</li> <li>Drainage Patterns (B10)</li> <li>Dry-Season Water Table (C2)</li> <li>Crayfish Burrows (C8)</li> </ul>
YDROLOGY  Netland Hydrology Indicators:  Primary Indicators (minimum of one is requi  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)	Water-Stained Leaves (B9) Aquatic Fauna (B13) True Aquatic Plants (B14) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living	<ul> <li>Surface Soil Cracks (B6)</li> <li>Drainage Patterns (B10)</li> <li>Dry-Season Water Table (C2)</li> <li>Crayfish Burrows (C8)</li> <li>Roots (C3)</li> <li>Saturation Visible on Aerial Imagery (C9)</li> </ul>
YDROLOGY  Wetland Hydrology Indicators:  Primary Indicators (minimum of one is requi  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)	Water-Stained Leaves (B9) Aquatic Fauna (B13) True Aquatic Plants (B14) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Presence of Reduced Iron (C4)	Surface Soil Cracks (B6) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Roots (C3) Saturation Visible on Aerial Imagery (C9) Stunted or Stressed Plants (D1)
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# Surface Water Data Viewer Map



NAD\_1983\_HARN\_Wisconsin\_TM 0 1: 1,980 0.03 0.1 Miles

DISCLAIMER: The information shown on these maps has been obtained from various sources, and are of varying age, reliability and resolution. These maps are not intended to be used for navigation, nor are these maps an authoritative source or information about legal land ownership or public access. No warranty, expressed or implied, is made regarding accuracy, applicability for a particular use, completeness, or legality of the information depicted on this map. For more information, see the DNR Legal Notices web page: http://dnr.wi.gov/legal/

# Legend

Wetland Identifications and Confirmations

# Wetland Class Points

- Dammed pond
- Excavated pond
- Filled/drained wetland Filled excavated pond
- Wetland too small to delineate

# Filled Points

11

- Wetland Class Areas
- Upland

Wetland

# Filled Areas

- Wetland Class Points Dammed pond
- Excavated pond
- Filled excavated pond
- Filled/drained wetland
- Wetland too small to delineate

# Filled Points

Wetland Class Areas

- Wetland
- Upland
- Filled Areas NRCS Wisconsin Soils
- Soil Mapping Unit
- Rivers and Streams
- Lakes and Open water Intermittent Streams

Index to EN\_Image\_Basemap\_Leaf\_ Off

## Notes



### **Map Unit Legend**

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
BIA	Blount silt loam, 1 to 3 percent slopes	1.3	25.4%
OzaB	Ozaukee silt loam, 2 to 6 percent slopes	0.3	5.7%
OzaB2	Ozaukee silt loam, 2 to 6 percent slopes, eroded	2.1	40.9%
OzaC2	Ozaukee silt loam, 6 to 12 percent slopes, eroded	1.5	28.0%
Totals for Area of Interest		5.2	100.0%

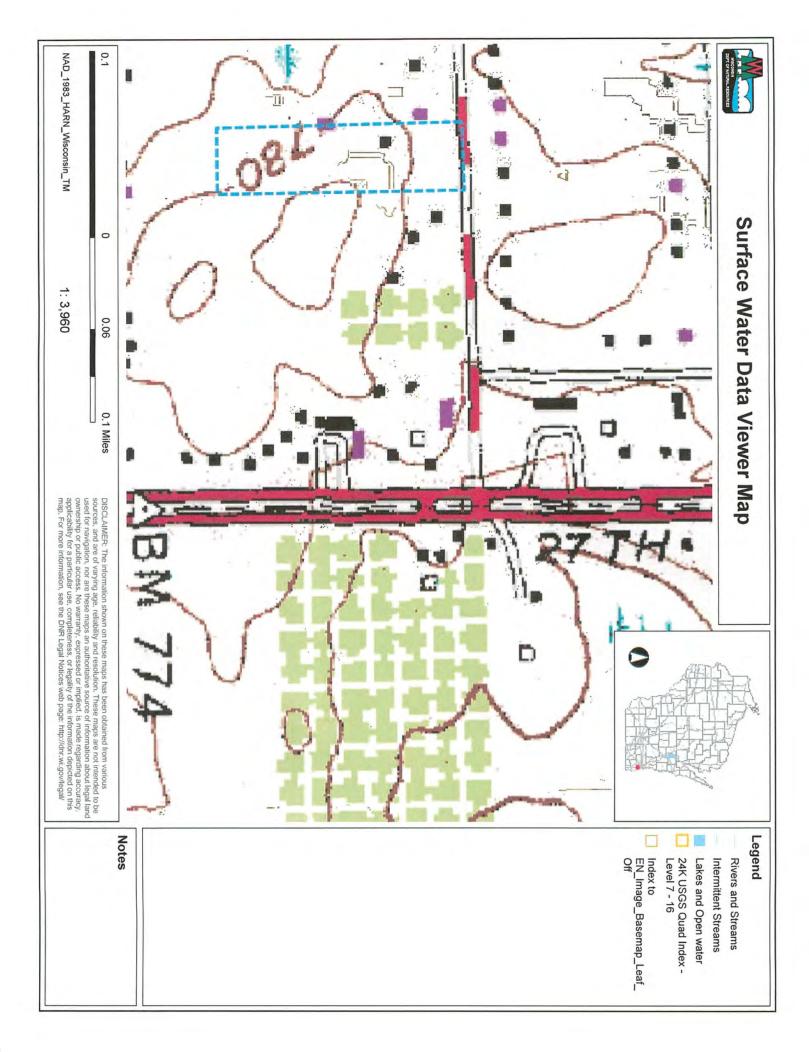
### Report—Hydric Soil List - All Components

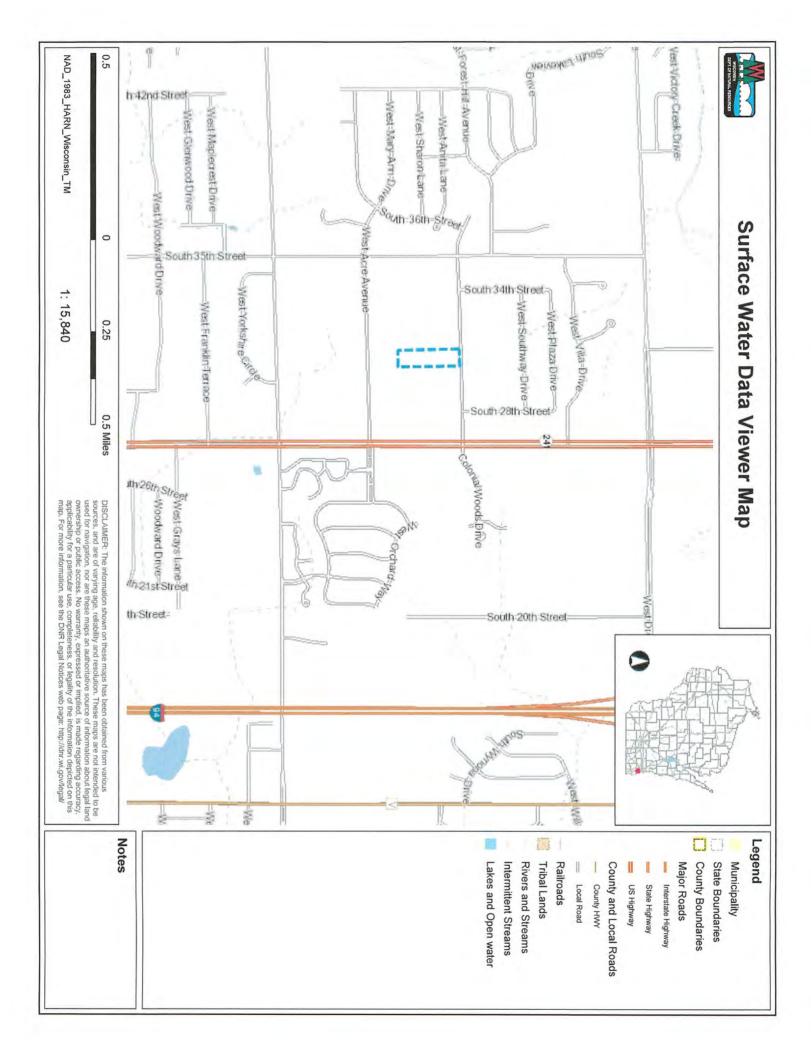
Map symbol and map unit name	Component/Local Phase	Comp.	Landform	Hydric status	Hydric criteria met
BIA: Blount silt loam, 1 to 3 percent slopes	Blount	90	Moraines	No	_
	Ashkum soils		Depressions	Yes	2,3
OzaB: Ozaukee silt loam, 2 to 6 percent slopes	Ozaukee	88-100	Ground moraines,end moraines	No	-
	Pewamo-Drained	0-7	Depressions on ground moraines,drainage ways on ground moraines	Yes	2
	Ashkum-Drained	0-7	End moraines,ground moraines	Yes	2
	Urban land	0-5	Ground moraines	No	-
OzaB2: Ozaukee silt loam, 2 to 6 percent slopes, eroded	Ozaukee-Eroded	88-100	Ground moraines,end moraines	No	-
	Ashkum-Drained	0-7	End moraines,ground moraines	Yes	2
	Pewamo-Drained	0-7	Drainageways on ground moraines,depressio ns on ground moraines	Yes	2
	Urban land	0-5	Ground moraines	No	-
OzaC2: Ozaukee silt loam, 6 to 12 percent slopes, eroded	Ozaukee-Eroded	88-100	End moraines,ground moraines	No	-
	Blount-Lake mighican lobe	0-7	Ground moraines,end moraines	No	-
	Urban land	0-5	Ground moraines	No	-
	Ozaukee-Severely eroded	0-5	Ground moraines,end moraines	No	-

### **Data Source Information**

Soil Survey Area: Milwaukee and Waukesha Counties, Wisconsin

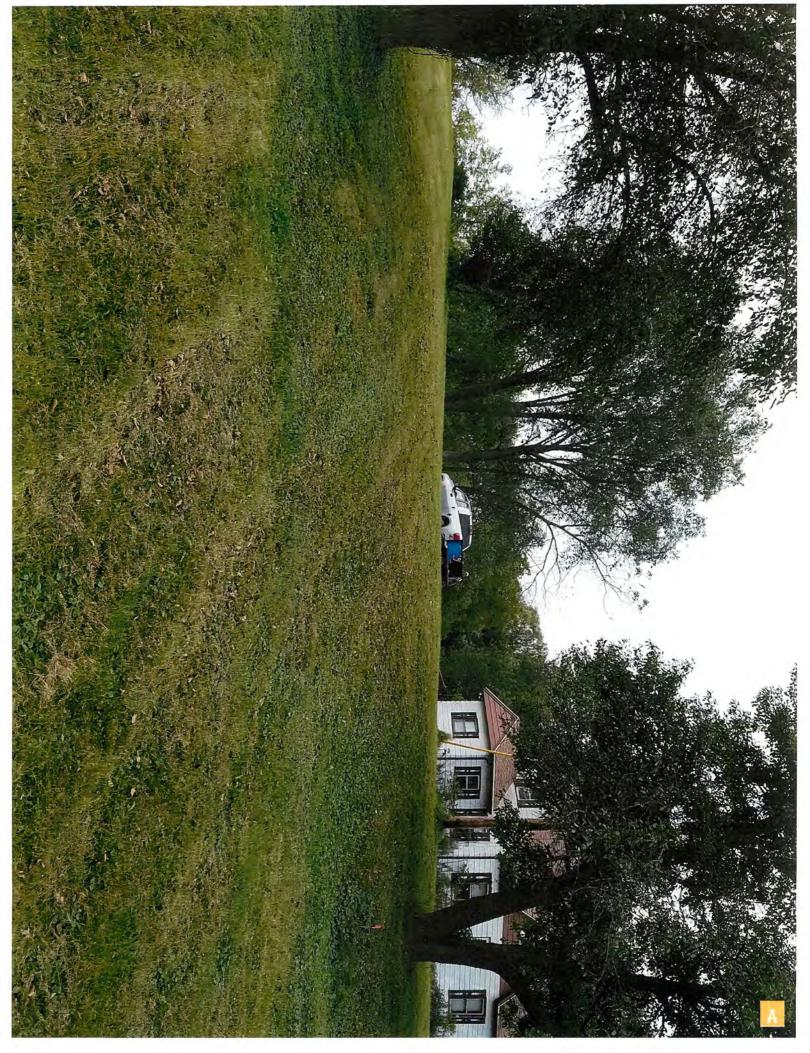
Survey Area Data: Version 14, Sep 12, 2018



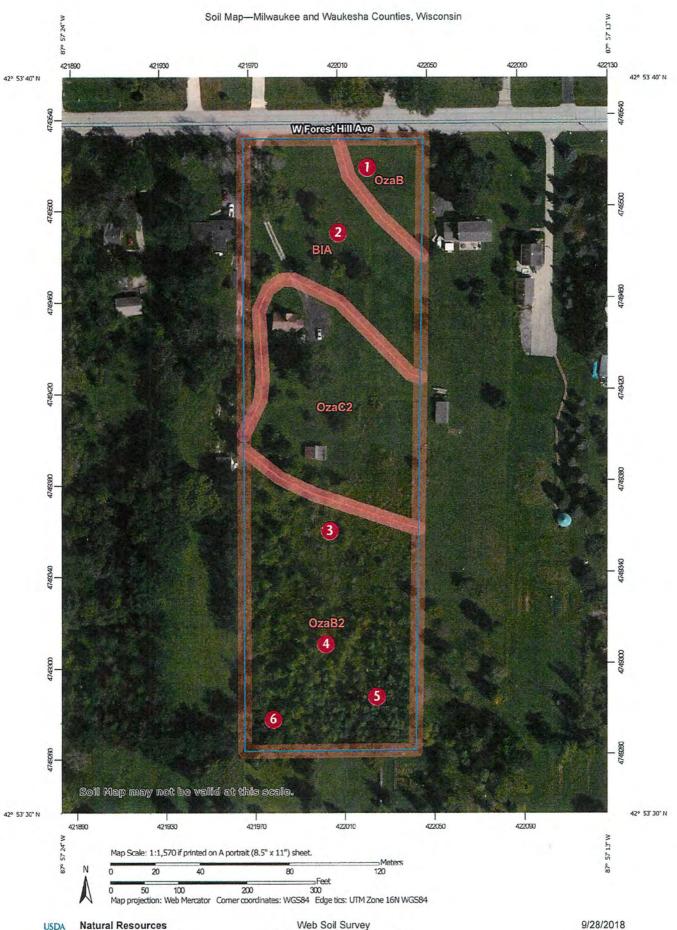


### **PHOTOGRAPHS**

Photo A	Standing in vicinity	of DP #2 viewing sou	th (upslope) toward house.
Photo B	Typical view of site	conditions at DP #'s 3	. 4. 5. and 6.







### 2/20/2019

Proposed Project Summary for 3031 W. Forest Hill Ave., Franklin, Wi. 53132.

This is a older residential neighborhood located on the east side of the city of Franklin. The zoning is R-3 suburban/estate single-family.

It is our intention to split the existing 5 acre parcel into two 2.50 acre lots that meet the R-3 district development standards. Dividing the lot in half directly down the middle will maintain the continuity of the existing lots on Forest Hill ave.

The new homes will have set backs that average the existing homes on Forest Hill Av. On lot 1 we are planning on building a 1800 sq. ft. ranch home with 3 car attached garage. On lot 2 we are planning on building a 2 story home with a 2 ½ car attached garage.

The back half of both lots is scattered young trees and heavy brush that is approx.300 ft deep by 125 ft. wide on each lot. The front of the lots are currently grass with several 4 fruit trees on lot 1. There is also some wild bushes and growth along the street side of the property that adds a rural appearance to the property. It is our intention to maintain the existing rural appearance. Grass is currently groomed to normal residential standards on the front half of the property. This look will be maintained before and during the construction of the new homes.

Our goal is to build to new homes that are in proportion to the existing homes in the area, placed on these two magnificent country look lots.

Lot owners Daniel A. Kanitz member Wyndham Homes and Dara Atlija Member Wyndham Homes.

Franklin
MAY 24 2019
City Development



### Dan Kanitz <wyndhamhomeswi@gmail.com>

### RE: [Non-DoD Source] 3031 NRPP (UNCLASSIFIED)

1 message

Kopka, Marie H CIV USARMY CEMVP (USA) < Marie.H.Kopka@usace.army.mil>

Tue, May 7, 2019 at 11:43 AM

To: "wyndhamhomeswi@gmail.com" <wyndhamhomeswi@gmail.com>

**CLASSIFICATION: UNCLASSIFIED** 

Good morning Mr. Kanitz,

Thank you for contacting the Corps of Engineers regarding your proposed project two install two culverts in associated with residential driveways at 3031 W. Forest Hill Avenue in the City of Franklin.

I know you have been working with Matt Groshek of our office regarding your proposed project and he had recommended that you to submit a jurisdictional determination request. In reviewing the One Source Consulting Natural Resource Protection Plan dated February 18, 2019, it appears that your project may qualify under our Minor Discharges General Permit which does not require the submittal of a permit application nor a Corps jurisdictional determination.

A copy of the Minor Discharges General Permit can be found here: https://www.mvp.usace.army.mil/Portals/57/docs/ regulatory/RGP/MinorDischarges\_RGP.pdf?ver=2018-02-22-093528-840. Please read through the permit to make sure your project would meet the terms and conditions.

At this point, you have two options. You could proceed with the project without further coordination with the Corps OR you can request a General Permit confirmation letter. If you request the latter, please let me know and we will log in the project and I'll assign to a Project Manager.

Thank you for your time, Marie

Marie H. Kopka, Lead Project Manager U.S. Army Corps of Engineers St. Paul District, Regulatory Branch Brookfield Field Office 250 N. Sunnyslope Road, Suite 296 Brookfield, Wisconsin 53005 Office: 651-290-5733 | Marie.H.Kopka@usace.army.mil

----Original Message----

From: Groshek, Matthew M CIV USARMY CEMVP (USA)

Sent: Tuesday, May 7, 2019 10:56 AM

To: Kopka, Marie H CIV USARMY CEMVP (USA) < Marie.H.Kopka@usace.armv.mil>

Subject: FW: [Non-DoD Source] 3031 NRPP

Franklin

MAY 242019

City Development

----Original Message----

From: Wyndham Homes [mailto:wyndhamhomeswi@gmail.com]

Sent: Tuesday, May 7, 2019 9:40 AM

To: Groshek, Matthew M CIV USARMY CEMVP (USA) < Matthew.M.Groshek@usace.army.mil>

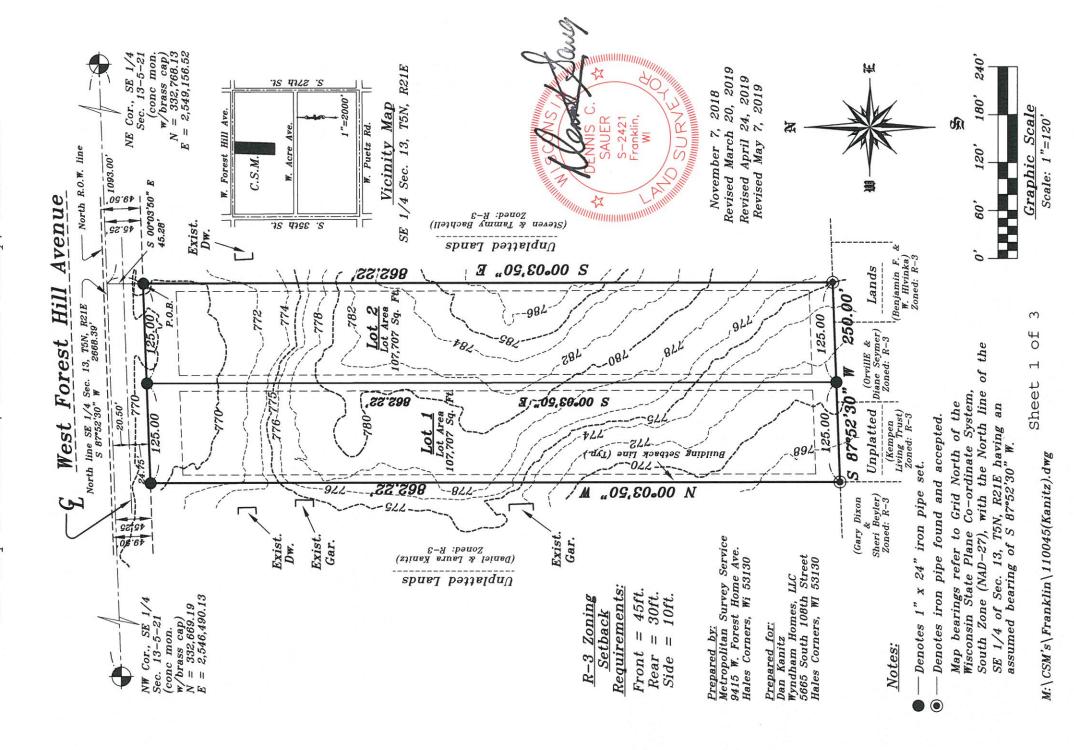
Subject: [Non-DoD Source] 3031 NRPP

hopefully this will open

Benjamin Kohout

City of Franklin Planning

in the East, of Wisconsin. 4 0 1/ Range Northwest North, County, and 2 east 1/4 an Township 5 Milwaukee Northeast of the Northe E Section 13, of Franklin, of part c City 1 the Q Being a Southeast



Franklin, Southeast of City the the of 1/4 in Northwest East, 21 Range and 1/4 5 North, Northeast Wisconsin. Township the Milwaukee County, of 13, part Section Being

# SURVEYOR'S CERTIFICATE

STATE OF WISCONSIN)
MILWAUKEE COUNTY) SS

said West 250.00 Southeast of West 250.00 feet a part of the Northeast 1/4 Section 13, Township Section 13, Township Section 13, Township Sounded square described as follows: Commencing at the Northeast corner of the Sou 1/4 of Section 13, Town 5 North, Range 21 East; thence S 87°52'30" 1093.00 feet; thence S 00°03'50" E, 45.28 feet to the South line of Forest Hill Avenue and the point of beginning; thence continuing S 00°03'50" E, 862.22 feet to a point; thence S 87°52'30" W, 250.00 fa point; thence N 00°03'50" W, 862.22 feet to the South line of sai do hereby certify: South line 215,414 said Said lands contain Milwaukee County, E, along Surveyor, divided and mapped, 'E, 862.22 feet to a point; the thence N 00°03'50" W, 862.22 full Avenue; thence N 87°52'30" Land 1/4 of Professional surveyed, divided to the Southeast 1 of beginning. in the City Franklin, Northwest 1/4 of the Sauer, point I, Dennis C. That I have s I have Forest Hill to the East,

direction the  $\mathbf{p}\mathbf{X}$ map division and land. land said survey, owner of such ILC, made Wyndham Homes, have Н That

exterior boundaries made. the all thereof of representation land division the land surveyed and the correct đ such map is That

the Division of dividing 236.34 Ordinance surveying, Chapter ith the provisions of C the Unified Development in Code Franklin Municipal with Wisconsin State Statutes and fully complied of City mapping the same. have the н That

November 7,20

Date

Rev. 3/20/19

Dennis C. Sauer

S-2421 Professional Land Surveyor DENNIS C. SAUER S-2421
FRANKLIN,
WILLIAM SURVEYOR

PREPARED FOR:

Frefrance For: Daniel Kanitz Wyndham Homes, LLC 5665 South 108<sup>th</sup> Street Hales Corners, WI 5313

PREPARED BY:

Metropolitan Survey Service 9415 West Forest Home Avenue Hales Corners, WI 53130

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NO.

SURVEY MAP

CERTIFIED

## OWNER'S CERTIFICATE

the dedicated Chapter Ordinance cansed of and accordance with the requirements Statutes and Unified Development ( have mapped WG that divided, of Franklin Municipal Code. certify be surveyed, di accordance with do hereby ţ owner, in State map map the City LLC, n this as 236.34 of the Wisconsin of ham Homes, described represented Division 15, Wyndham land as

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WITNESS	

Daniel Kanitz, Owner

STATE OF WISCONSIN)
Milwaukee COUNTY) SS

foregoing 20 who of be the same this the ç t known acknowledged came before me me to Kanitz, nent and instrument PERSONALLY Daniel

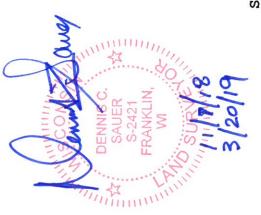
Notary Public State of Wisconsin My Commission Expires:

# COMMON COUNCIL APPROVAL

Franklin, of City of theday of Council this Common o the ρλ accepted No. and Resolution APPROVED

Stephen Olson, Mayor City of Franklin

Sandra L. Wesolowsi, Clerk City of Franklin



Wisconsin

Franklin,

Avenue, Home Forest LOCATION:

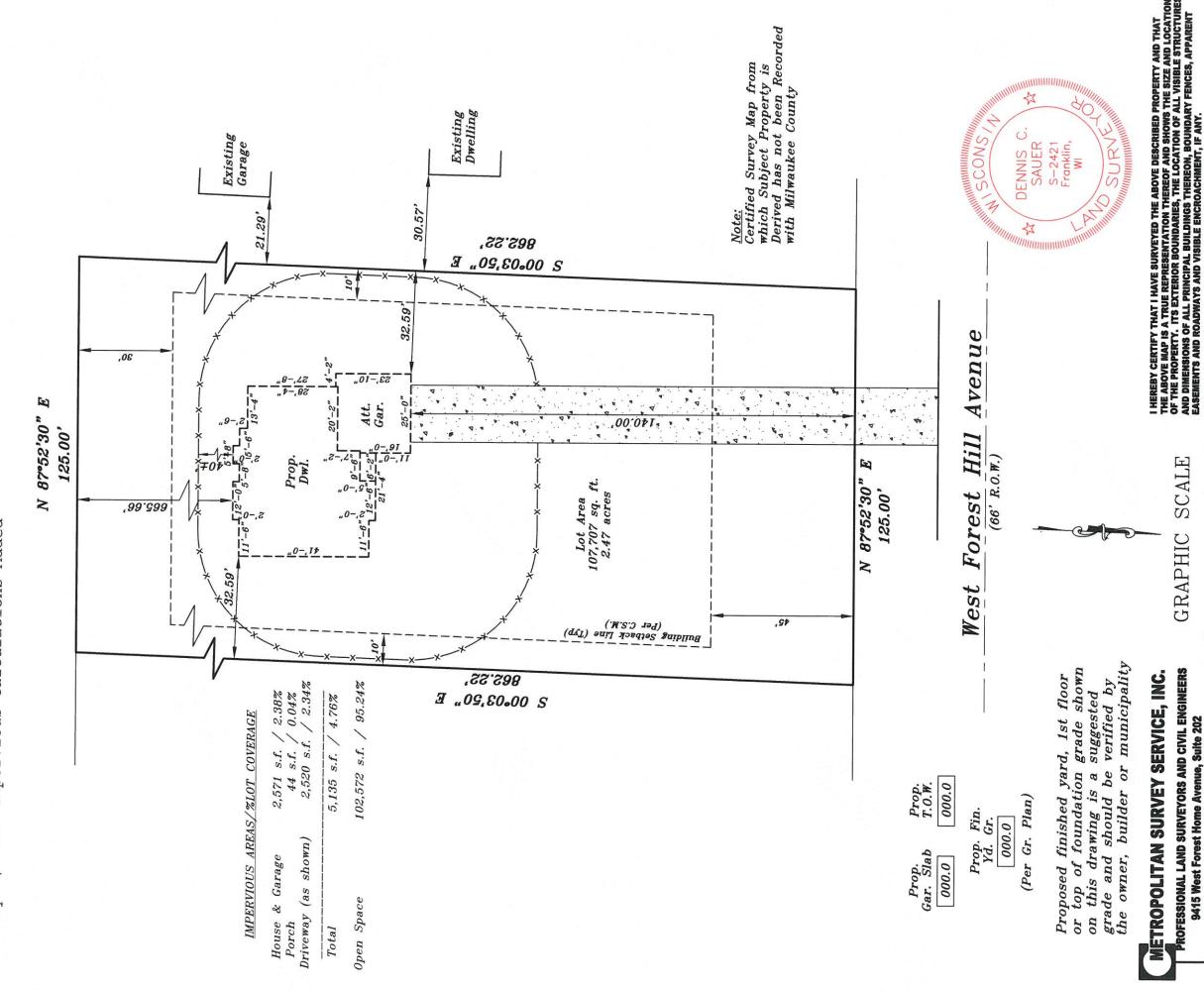
the Southeast Milwaukee Southwest 1/4 of City of Franklin, the the of in . part East, Ø being a , berr. Range No. 2 MAP Township in CERTIFIED

E Section 13,

V, Wisconsin. County, of

2018 (Drawing Only) Impervious Calculations Added December 6, May 7, 2019

110276 No. Survey



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Dennis C. Sauel

ERS OF THE PROPERTY ITLE THERETO WITHIN

THIS SURVEY IS MADE FOR THE EXCLUSIVE USE OF THE PRESENT AND ALSO THOSE WHO PURCHASE, MORTGAGE, OR GUARANTEE ONE (1) YEAR FROM THE DATE HEREOF.

( IN FEET inch = 30

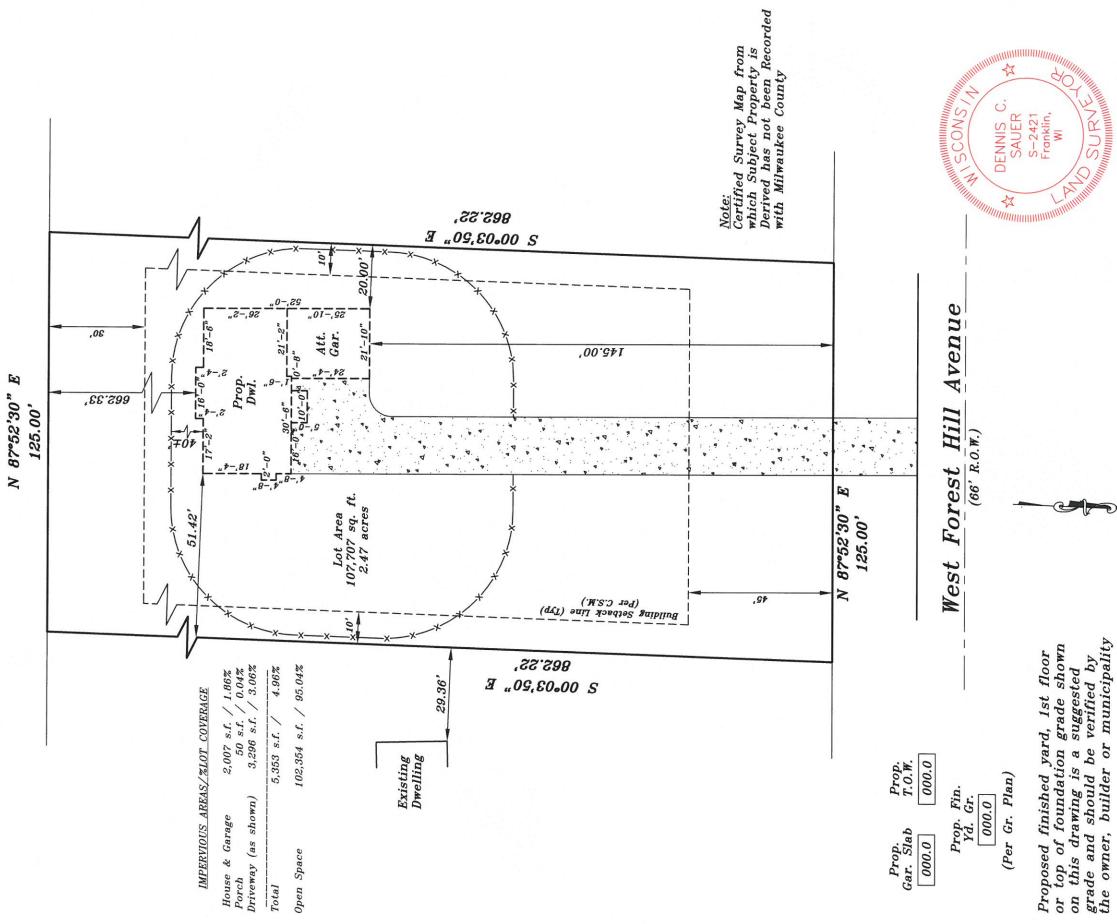
Wisconsin Franklin, Avenue, Forest Home

### DESCRIPTION LEGAL

the Southeast Milwaukee Southwest 1/4 of City of Franklin, the the of in part East, ಡ being a , bell Range NO. North, 2 in **CERTIFIED SURVEY MAP**Section 13, Township 5 Section 13, Wisconsin. County, of

2018 (Drawing Only) Impervious Calculations Added December 6, May 7, 2019

110277 No. Survey



TROPOLITAN SURVEY SERVICE, INC.

grac

ROFESSIONAL LAND SURVEYORS AND CIVIL ENGINEERS 9415 West Forest Home Avenue, Suite 202 Hales Corners, Wisconsin 53130 PH. (414) 529-5380 email address: survey@

Pipe Found Denotes Iron Pipe Set Denotes Iron 0

0.000

Denotes Proposed Grade

Denotes Proposed Silt Screen

SCALE (IN FEET) inch = 30 f GRAPHIC

CERTIFY THAT I HAVE SURVEYED THE ABOVE DESCRIBED PROPERTY IE MAP IS A TRUE REPRESENTATION THEREOF AND SHOWS THE SIZE A ROPERTY. ITS EXTERIOR BOUNDARIES, THE LOCATION OF ALL VISIBLI NSIONS OF ALL PRINCIPAL BUILDINGS THEREON, BOUNDARY FENCES TS AND ROADWAYS AND VISIBLE ENCROACHMENT, IF ANY.

This survey is made for the exclusive use of the present owners of the property and also those who purchase, mortgage, or guarantee the title thereto within one (1) year from the date hereof.