

#2015-47 Central States Tower/ Verizon Wireless— Special Use Permit & Zoning Variation Project Review for Planning and Zoning Commission

Meeting Date: August 19, 2015

Request: A Special Use Permit for a wireless communication tower and a

variation from Article 2-400 to allow the monopole tower to be setback less than 110% of the height of the tower, 143 feet, from

all property lines.

Location: 6521 Commercial Road

Acreage: 43,750 square feet

Existing Zoning: M (Manufacturing)

Surrounding Properties: North: B-2 (General Commercial)

South: M (Manufacturing)
East: M (Manufacturing)

West: B-2 (General Commercial)

Staff Contact: Kathryn Cowlin (815.356.3798)

Background:

- Existing Use: The property currently improved with an industrial building being used by Le Walt Glass.
- <u>Background</u>: The petitioner explored locating the wireless communication facilities on existing private towers and public utilities. According to the petitioner, there are currently no existing structures that could accommodate the communications facility within the petitioner's targeted area.
- <u>UDO Requirements</u>: A special use permit is required for wireless communication towers. Wireless communication facilities are required to be setback 110% of the height of the tower from all property lines.

Development Analysis:

General

• Request: The petitioner is requesting a special use permit for a wireless communications tower and a zoning variation from Article 2-400 to allow the monopole tower to be setback less than 110% of the height of the tower, 143 feet, from all property lines. The closest that the tower would be to the property lines would be approximately 58 feet.

• <u>Land Use</u>: The land use map shows the area as Industry. This land use designation is appropriate for this use.

Zoning: The site is zoned M (Manufacturing).



Proposed Development Description

- The height of the tower is 130 feet.
- The communication facility will be enclosed by a 6-foot chain link fence with a barbwire crown.

2030 Comprehensive Land Use Plan Review:

The Comprehensive Plan designates the subject property as Industry, which allows for existing and future manufacturing uses.

This project meets the following goal:

Land Use - Industry

Goal: Support manufacturing uses within the community which contribute to the regional and local economy and Crystal Lake's live, work, play philosophy.

This can be accomplished with the following supporting action:

Supporting Action: Expand and attract manufacturing users which provide jobs, services, and products strengthening the City's economy.

Findings of Fact:

SPECIAL USE PERMIT

Special Uses require a separate review because of their potential to impact surrounding properties

and the orderly development of the City. Section 2-400 of the Unified Development Ordinance establishes standard for all Special Uses in Crystal Lake. The criteria are as follows:

1.	That the proposed use is necessary or desirable, at the location involved, to provide a service or facility which will further the public convenience and contribute to the general welfare of the neighborhood or community.		
	☐ Meets ☐ I	Does not meet	
2.	That the proposed use improvements in the vicin	will not be detrimental to the value of other properties or ty.	
	☐ Meets ☐ I	Does not meet	
3.	located and this Ordinance bulk regulations, parking	comply with the regulations of the zoning district in which it is generally, including, but not limited to, all applicable yard and and loading regulations, sign control regulations, watershed, egulations, Building and Fire Codes and all other applicable City	
	☐ Meets ☐ I	Does not meet	
4.	will adequately address o	I not negatively impact the existing off-site traffic circulation; n-site traffic circulation; will provide adequate on-site parking I, will contribute financially, in proportion to its impact, to rking systems.	
	☐ Meets ☐ I	Does not meet	
5.	service delivery systems a	I not negatively impact existing public utilities and municipal and, if required, will contribute financially, in proportion to its spublic utility systems and municipal service delivery systems.	
	☐ Meets ☐ I	Does not meet	
6.	noise, or water pollution; g	all not impact negatively on the environment by creating air, round contamination; or unsightly views.	
	Meets	Does not meet	
7.	adequate screening to re covers, trees and shrubs compatible or complement	I maintain, where possible, existing mature vegetation; provide sidential properties; provide landscaping in forms of ground and provide architecture, which is aesthetically appealing, stary to surrounding properties and acceptable by community ed in Article 4, Development and Design Standards.	
	☐ Meets ☐ I	Does not meet	
8.	other than the City such as	l meet standards and requirements established by jurisdictions Federal, State or County statutes requiring licensing procedures s, and submit written evidence thereof.	

	Meets	Does not meet
9.	That the proposed use Special Use Permit is	e shall conform to any stipulations or conditions approved as part of a sued for such use.
	☐ Meets	Does not meet
10	That the proposed us as provided in this se	e shall conform to the standards established for specific special uses ction.
	☐ Meets	Does not meet
		wireless communication facilities. All radio transmission towers and lities must comply with the following standards:
1.		signed to meet the wind loading requirements specified in the tandards Institute TIA-222-F Report, as amended.
	☐ Meets	Does not meet
	Meets standard per v	erification letter from Mr. Tindall of Sabre Industries.
2.	structural integrity of federal standards, loc by the American Nat is determined a towe persons or property, to into compliance. Fa	shall provide documentation to the City demonstrating that the of the towers and antenna will continue to comply with state and cal building codes, and the applicable standards for towers published ional Standards Institute (ANSI), as amended. If, upon inspection, it er fails to comply with such standards and constitutes a danger to the owner shall be notified that he/she has 30 days to bring the tower tilure to bring the tower into compliance within 30 days shall removal of the tower at the owner's expense.
	Meets	Does not meet
	Meets standard per v	erification letter from Mr. Tindall of Sabre Industries.
3.	_	s communication or radio transmission towers shall not exceed 200 sured from the tower base to the highest point of the tower and any transmitting device.
	☐ Meets	Does not meet
	Meets standard, the n	nonopole is 130 feet in height.
4.	demonstrate that all	nses: The operator shall provide documentation to the City to franchises and licenses required by law for the construction and/or or antenna have been obtained.
	☐ Meets	Does not meet
	The petitioner's appl	ication does not provide sufficient documentation.
5.	Towers shall either	maintain a galvanized steel finish or, subject to any applicable

standards of the FAA, be painted a neutral color (i.e., light grey) to reduce visual

	obtrusiveness or painted in a sky-tone above the top of surrounding trees and in an earth-tone below the treetop level.					
	Meets	Does not meet				
	The petitioner's appli	cation does not provide sufficient documentation.				
6.	At a tower site, the design of buildings and related structures shall, to the maximum extent practicable, use materials, colors and architectural styles, that blend into the natural setting and surrounding buildings.					
	☐ Meets	Does not meet				
	The petitioner's appli	cation does not provide sufficient documentation.				
7.	Storage: No outside s	torage shall be allowed on any facility site.				
	☐ Meets	Does not meet				
8.	Lighting: Towers shall not be artificially lighted, unless required by the FAA or other applicable authority.					
	Meets	Does not meet				
9.	A single sign measuring no more than two square feet in size shall be located on or near the tower, and shall identify the tower owner, the street address of the tower, the owner's identification code for the tower, and a twenty-four-hour emergency contact telephone number.					
	Meets	Does not meet				
	The petitioner's applethey may not plan to	ication does not provide signage details, as there is a possibility that include signage.				
10.	No commercial advertising shall be allowed on the tower or its related facilities.					
	Meets	Does not meet				
11.	_	guy anchors, equipment buildings, and any other appurtenances nall be considered as being located on one zoning lot.				
	☐ Meets	Does not meet				
	The petitioner submit single zoning lot.	ted a site plan demonstrating that all equipment will be located on a				
12.	standards. Self suppo	ommunications facilities shall comply with the following setback orting and monopole towers shall be setback from all property lines to of the height of the tower.				
	Meets	Does not meet				
	The petitioner is requesting a zoning variation for this criteria.					

13.	Equipment buildings associated with a wireless communication facility shall meet the minimum setback requirements for the zoning district where located.
	☐ Meets ☐ Does not meet
	Meets standard, all equipment is greater than the 15-foot minimum interior yard setback and the 20-foot rear yard setback requirements.
14.	Separation: If an applicant proposes a new wireless communications tower or radio transmission tower within 1,200 feet of an existing tower, the applicant shall submit a statement indicating the reasons why the existing tower(s) was inadequate or unavailable. The Zoning Administrator shall allow the owner of such existing tower an opportunity to comment prior to making a decision.
	☐ Meets ☐ Does not meet
	The petitioner submitted an affidavit that there are no existing structures within the 1200-foot radius.
15.	Collocation: New wireless communication or radio transmission towers shall provide evidence that the tower is structurally designed to support at least three additional users, and provide a written statement that the owner of the tower is willing to permit other user(s) to attach communication facilities, on a commercially reasonable basis, which do not interfere with the primary purpose of the tower. The site plan shall indicate a location for at least one equipment building in addition to that proposed for use by the applicant. A tower which is modified or reconstructed to accommodate the collocation of an additional antenna shall be of the same tower type as the existing tower, unless a monopole is determined more appropriate at the specific location. If an existing tower is increased in height or reconstructed to accommodate the collocation of additional antenna it shall meet the height restrictions outlined within this section of the Ordinance.
	☐ Meets ☐ Does not meet
	The petitioner submitted plans demonstrating that co-location is possible on the proposed tower.
16.	Landscaping: Unless existing vegetation provides a buffer strip, all property lines along roadways or visible to existing abutting or nearby buildings (within 1/4 mile radius), for all facilities shall be landscaped as follows: a. With six-foot to eight-foot evergreen shrubs planted in an alternate pattern, five feet on center and within 15 feet of the site boundary; or
	1 1771 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

- b. With at least one row of deciduous trees, not less than 2 1/2 inch to three inches caliper measured three feet above grade, and spaced not more than 30 feet apart and within 25 feet of the site boundary; or
- c. With at least one row of evergreen trees at least four to five feet in height when planted, and spaced not more than 15 feet apart within 40 feet of the site boundary.
- d. In lieu of the foregoing, the Planning and Zoning Commission may determine that the existing vegetation must be supplemented to meet an equivalent means of achieving the desired goal of minimizing the visual impact.

	☐ Meets
	The site plan calls for 6-foot tall Arborvitae screening planted in an alternate pattern at ten feet on center. The requirement states the evergreen shrubs shall be planted five feet on center.
17.	Security fencing: Towers, guy anchor supports, and ground-based equipment buildings shall be enclosed by security fencing not less than eight feet in height and equipped with an appropriate anti-climbing device.
	☐ Meets ☐ Does not meet
	The proposed security fencing is 6 feet in height with a one foot barb wire crown.
18.	Radiation reporting: It shall be demonstrated that the proposed tower, antenna, and supporting equipment complies with FCC nonionizing radiation requirements for individual and combined facilities.
	☐ Meets ☐ Does not meet
	The petitioner's application does not provide sufficient documentation.
19.	Interference: No wireless communications tower, antenna, or supporting equipment shall interfere with equipment operated by the City of Crystal Lake.
	☐ Meets ☐ Does not meet There are no City utility easements on the subject property.

Recommended Conditions:

If a motion to recommend approval of the petitioner's request is made, it should be with the following conditions:

- 1. Approved plans, reflecting staff and advisory board recommendations, as approved by the City Council:
 - A. Application (received 07/30/15)
 - B. Existing Tower Analysis (received 07/30/15)
 - C. Plan Set (received 07/30/15, dated 07/28/15)
 - D. Plat of Survey (received 07/30/15, dated 05/12/15
- 2. Towers shall either maintain a galvanized steel finish or, subject to any applicable standards of the FAA, be painted a neutral color (i.e., light grey) to reduce visual obtrusiveness or painted in a sky-tone above the top of surrounding trees and in an earth-tone below the treetop level.
- 3. The design of buildings and related structures shall, to the maximum extent practicable, use materials, colors and architectural styles, which blend into the natural setting and surrounding buildings.
- 4. The operator shall provide documentation to the City to demonstrate that all franchises and licenses required by law for the construction and/or operation of a tower or antenna have been obtained.

- 5. No outside storage shall be allowed on any facility site.
- 6. Towers shall not be artificially lighted, unless required by the FAA or other applicable authority.
- 7. A single sign measuring no more than two square feet in size can be located on or near the tower, and shall identify the tower owner, the street address of the tower, the owner's identification code for the tower, and a twenty-four-hour emergency contact telephone number.
- 8. No commercial advertising shall be allowed on the tower or its related facilities.
- 9. The petitioner shall work with staff to enhance the landscaping buffer along the property lines.
- 10. The security fencing shall measure 8 feet in height.
- 11. The driveway leading to the new cell tower will need to be paved per City standards.
- 12. It shall be demonstrated that the proposed tower, antenna, and supporting equipment complies with FCC nonionizing radiation requirements for individual and combined facilities.
- 13. The petitioner shall address all of the review comments and requirements of the Community Development, Public Works, Fire and Police Departments.

RECEIVED
JUL 3 0 2015

2015 47

City of Crystal Lake BY: Development Application

PIN Number(s): <u>/9-08-276-607</u>

Office Use Only
File #

Project Title: IL-00-8777 Crystal Lake South - CST/Verigon Wireless Action Requested **Preliminary PUD** Annexation Preliminary Plat of Subdivision Comprehensive Plan Amendment Conceptual PUD Review Rezoning **Final PUD Special Use Permit** Final PUD Amendment Variation **Final Plat of Subdivision** Other Petitioner Information Owner Information (if different) Central States Tower Name: Home State BANK NA; LAND Trust #4439 Name: % TNG Wireless Address: 6521 Commercial Roas Address: 1829 Foether DRIVE Crystal Lake, IL 60014 Indianapolis, IN 46231 Phone: 317-979-1212 Phone: 815-459-5252 Fax: 317-203-0940 E-mail: Darrey @ THGENterprises 1/c. com E-mail: feddersenc @ aol. com Property Information Project Description: Installation of a 180' Tall Monopole Wireless Structure and associates ground shelter & Eggipment without an enclosed, fences compound Project Address/Location: 6521 Commercial RD. Crystal Lake, IL 60014

Development Team	Please include address, phone, fax and e-mail
Developer: Central States Lower 323 Sour 6080-201-8500 / Devantin@ Ce	7+ HALEST, #100 Wheaton, IL 10187
Architect: Chysolidates Land Surveyous BO 309-649-3484 / John & Clstano	OW. Commerce De # 700 Peopla, I'L 61615
r = f	
Engineer: Austidales Lans Fievezores	
Landscape Architect: N/H	
Planner: NA	
Surveyor: Ansoludate Land Sarveyors	S
Other:	
Signatures PETTIONER: Print and Sign name (if different	nodgrass 7/39/3015 From owner) Date
As owner of the property in question, I hereby au CHRIS VICE PRESIDE	thorize the seeking of the above requested action. L. JOHNSON NT & SR. TRUST OFFICER 7/29/15
OWNER: Print and Sign name	Date 1

NOTE: If the property is held in trust, the trust officer must sign this petition as owner. In addition, the trust officer must provide a letter that names all beneficiaries of the trust.

This instrument is executed by Home State Bank/National Association, Crystal Lake, IL., not personally but solely as Trustee as aforesaid. All the covenants and conditions to be performed hereunder by Home State Bank/National Association are undertaken by it solely as Trustee as aforesaid and not individuely, and no personal liability shall be asserted or be enforceable against Home State Bank/National Association by reason of any of the covenants, statements, representations or warranties contained in this instrument.

Development Team	Please include address, phone, fax and e-mail
Developer: Central States lower 323 South A 630-221-8500 / Brianm@Centra	The St. #100 Wheaton, IL 60187
Architect: Cousdidates Land Surveyors 1300 W 309-692-3484) John & Clistano, con	1. Commerce De #700 Peoria, IL 6161
Attorney: N/A	
Engineer: Consolidated Land Sieverores	
Landscape Architect: N/A	
Planner: NA	
Surveyor: Ansolidate Lans Sarveyons	
Other:	
· 	
PETITIONER: Print and Sign name (if different from	gass 7/29/2015 Date
As owner of the property in question, I hereby authori	
OWNER: Print and Sign name	Date

NOTE: If the property is held in trust, the trust officer must sign this petition as owner. In addition, the

trust officer must provide a letter that names all beneficiaries of the trust.

Please include address, phone, fax and e-mail



TRUST DEPARTMENT

CERTIFICATION OF TRUSTEE

I, Chris L. Johnson, Vice President & Sr. Trust Officer for Home State Bank/National Association, Crystal Lake, Illinois, do hereby certify that Home State Bank/NA is the trustee of the following trust:

Land Trust # 4439

and, as trustee, do further certify that the beneficial ownership of said trust as indicated by its records is as follows:

Beneficial Owner(s)

Douglas Fedderson

Collateral Assignee(s)

Home State Bank, N.A.

Home State Bank does not by this certification make any warranties, representations or certifications as to the holdings of the trust, the state of title of any real property held therein, or any assignment of beneficial interest not acknowledged by it as trustee.

Home State Bank/NA as Trustee Under Trust 4439

Dy T

Chris L. Johnson

Vice President & Sr. Trust Officer

Subscribed and Sworn to before me this 29th day of July, 2015.

Notary Public

"OFFICIAL SEAL"

JILL HEFFRON

NOTARY PUBLIC, STATE OF ILLINOIS
My Commission Expires 12/29/2017

BEFORE THE PLANNING AND ZONING COMMISSION OF THE CITY OF CRYSTAL LAKE, MCHEN-RY COUNTY, ILLINOIS

IN THE MATTER OF THE APPLICA-TION OF Central Sales Tower c/o TNG Wire-

<u>LEGAL NOTICE</u>

Notice is hereby given in compliance with the Unified Development Ordinance (UDO) of the City of Crystal Lake, Illinois, that a public hearing will be held before the Planning and Zoning Commission of the City of Crystal Lake upon the application of Central States Tower of TMS Wireless seeking a Special Use Permit and variation to allow a wireless communication tower at 6521 Commercial Road, Crystal Lake, Illinois, PIN: 19-08-276-007

This application is filed for the purpose of seeking a Special Use Permit pursuant to Article 2-400 to allow a wireless communications tower and a variation from Article 2-400(C)(48)(ix) to allow the monopole tower to be selback less than 110% of the height of the tower from all properly lines, as well as any other variations as necessary to complete the project as proposed. Plans for this project can be viewed at the Crystal Lake Community Development Department at City Hall.

A public hearing before the Planning and Zoning Commission for this request will be held at 7:30 p.m. on Wednesday August 19, 2015, at the Crystal Lake City Hall, 100 West Woodstock Street, at which time and place any person determining to be heard may be present.

determining to 2-present.
Tom Hayden, Chairperson Planning and Zoning Commission City of Crystal Lake

(Published in the Northwest Herald August 4^{th} , 2015.) NW 7121

Evystal Lake Illinois



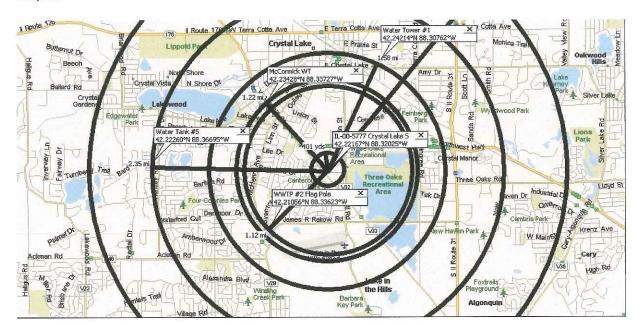
Existing Water Tank and Existing Tower Analysis - City of Crystal Lake

The existing Water Tank and existing tower coordinates were provided by the City of Crystal Lake.

We took those coordinates and entered them into a mapping software. The subject property is indicated at the center of all of these maps. IL-00-577 Crystal Lake S. We then used the software to show radial distances from the subject property.

The first ring is the 1200' separation distance required under the ordinance.

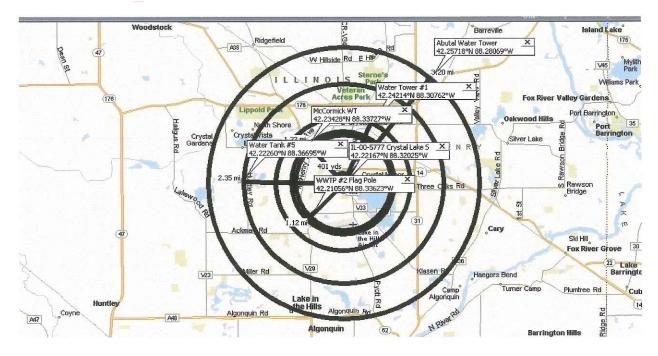
Map #1



Map #1 shows the closest exiting tower, WTTP #2 Flag Pole is located 1.12 miles southwest of the subject property. The next closest structure is the McCormick WT which is 1.22 miles to the Northwest. Third closest is Water Tank #1 which is located 1.58 miles to the northeast. Last site indicated on this map is the Water Tank #5 and that site is 2.35 miles to the West of the subject property.

Map #2 continued on Next Page:



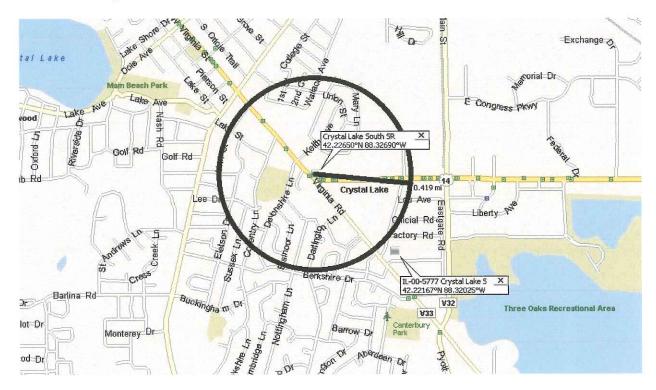


Map # 2 shows the remaining existing structures provided by the City of Crystal Lake, Abutal Water Tower. That Tank is located 3.20 Miles to the northeast of the subject property.

The original target coordinates for our search were 42.2265 / -088.3269 and we were given a search ring of approximately 4/10's of a mile. To find a willing landowner in the area that had a property that was allowable under a special exception we need to go outside our search area a small amount. Even that distance required RF Engineering approval.

Search Area map on next page:

Search Area Map:



All of the existing structures are too far away from the target area and would create service issues within the target area and also cause interference issues with existing sites. Each of the closest exiting sites are approximately 7/10's of a mile beyond the acceptable search parameters.

STATE OF INDIANA			
)		
COUNTY OF HENDRICKS)		

AFFIDAVIT

Darren S. Snodgrass, after being first duly sworn, states upon his oath that:

As the President of TNG Wireless and working on behalf of our client, Verizon Wireless and their tower development company, Central States Tower, I made all diligent efforts to locate and identify existing structures of height that would meet the needs of my client having given me a target coordinate of 42.2265 / -088.3269 and a search radius of one half mile. Further I made all diligent efforts to locate any existing structures of height within the 1200 foot radius of the selected candidate with coordinates of 42.22167 / -088.32025 as required under the wireless ordinance for the City of Crystal Lake. Having performed said effort I swear under oath that no structure of height currently exists that meets my client's criteria.

Darren S. Snodgrass

President

TNG Wireless

A Division of TNG Enterprises LLC

Email: Darren@TNGEnterprisesllc.com

Subscribed and sworn to before me this

__ day of

- Man

Notary Public

OFFISIAL SEAL
RICKEY J. DODSON, JR.
NOTARY PUBLIC – INDIANA
HENDRICKS COUNTY
My Comm. Expires May 11, 2016



Sole Tenancy Illinois .ory			
MAIL TO:		MILEY THIS TO BE A	TEUE
Maksymonko & Slater	100	COPY OF THE OUT	NAL.
109 North Main Street	A CAN	NATIONAL TITLE WO	RK, INC.
Algonquin, Illinois 60102	Procession	NATIONALTITLE	
NAME & ADDRESS OF TAXPAYER:			
Douglas Feddersen			
6521 Commercial Drive			
Crystal Lake, Illinois 60014	REC	ORDER'S STAM	P
The contract of the contract o			
THE GRANTOR Raymond E. and Susan L.	Ramos, a married couple		
of the Village of Cary Cou		State of	Illinois
	Ten (10)	A Shaperoon of Assessment	DOLLARS
and other good and valuable considerations in han	d paid,		
CONVEY and WARRANT to Home State	Bank NA; Trust Number	4439, Dated Jur	ie 13, 1996
(GRANTEE'S ADDRESS) 40 Grant St	reet		
of the <u>City</u> of <u>Crystal Lake</u> Couras Sole Tenant, all interest in the following describe to wit:	nty of <u>McHenry</u> d Real Estate situated in the	State of County of McHen	Olinois ry, State of Illinois,
THE EAST 175 FEET OF LOT LAKE INDUSTRIAL CENTER, 8, TOWNSHIP 43 NORTH, RAI MERIDIAN, ACCORDING TO 1955 AS DOCUMENT NO. 2923 MCHENRY COUNTY, ILLINO	, A SUBDIVISION OF P NGE 8 EAST OF THE T THE PLAT THEREOF R 393, IN BOOK 12 OF PI	ART OF SECTION OF SECTION OF SECULIARY PRINCIP.	ON AL 10,
hereby releasing and waiving all rights under and by TO HAVE AND TO HOLD said premises Sole To Permanent Index Number(s)19-08-276-007 Property Address:6521 Commercial Drive, Cr	enant.	emption Laws of the	ne State of Illinois.
DATED this day of	May	2000 .	
Jagma Hogme	(Seal)	en Ha	MG (Seal)
Raymond E. Ramos	Susan L.	Ramos	
	(Seal)		(Seal)

WARRANIY DELD

NOTE: PLEASE TYPE OR PRINT NAME BELOW ALL SIGNATURES



	STATE OF ILLINOIS) County of McHenry) ss	<i>(</i>
	I, the undersigned, a Notary Public in and for sa Raymond E. Ramos and Susan L. Ray	id County, in the State aforesaid, DO HEREBY CERTIFY THAT
	delivered the said instrument as their therein set forth, including the release and waive	free and voluntary act for the uses and purposes
	Given under my hand and notarial seal, this	1st day of May 20 00
	My commission expires on MULL	Colly france Notary Public
		OFFICIAL SEAL KELLY PHINNEY NOTARY PUBLIC, STATE OF ILLINOIS MY COMMISSION EXPIRES: 06/21/03
		McHENRY COUNTY - ILLINOIS TRANSFER STAMP
7	IMPRESS SEAL HERE NAME and ADDRESS OF PREPARER:	EXEMPT UNDER PROVISIONS OF PARAGRAPH SECTION 4, REAL ESTATE TRANSFER ACT.
	R. Winston Slater 109 N. Main Street Algonquin, Illinois 60102 847-658-1400	DATE: Buyer, Seller or Representative
		1

**This conveyance must contain the name and address of the Grantee for tax billing purposes: (Chap. 55 ILCS 5/3-5020) and name and address of the person preparing the instrument: (Chap. 55 ILCS 5/3-5022).



July 29, 2015

Mr. Yuri Dobrowolsky Central States Tower 323 South Hale Street, Suite 100 Wheaton, IL 60187

RE: Proposed 125 ft Sabre Monopole for #IL-00-5777, Crystal Lake South, IL

Dear Mr. Dobrowolsky,

Upon receipt of order, we propose to design and supply the above referenced Sabre monopole for a Basic Wind Speed of 90 mph with no ice and 40 mph with 3/4" ice, Structure Class II, Exposure Category C, and Topographic Category 1, in accordance with the Telecommunications Industry Association Standard ANSI/TIA-222-G, "Structural Standard for Antenna Supporting Structures and Antennas".

When designed according to this standard, the wind pressures and steel strength capacities include several safety factors, resulting in an overall minimum safety factor of 25%. Therefore, it is highly unlikely that the monopole will fail structurally in a wind event where the design wind speed is exceeded within the range of the built-in safety factors.

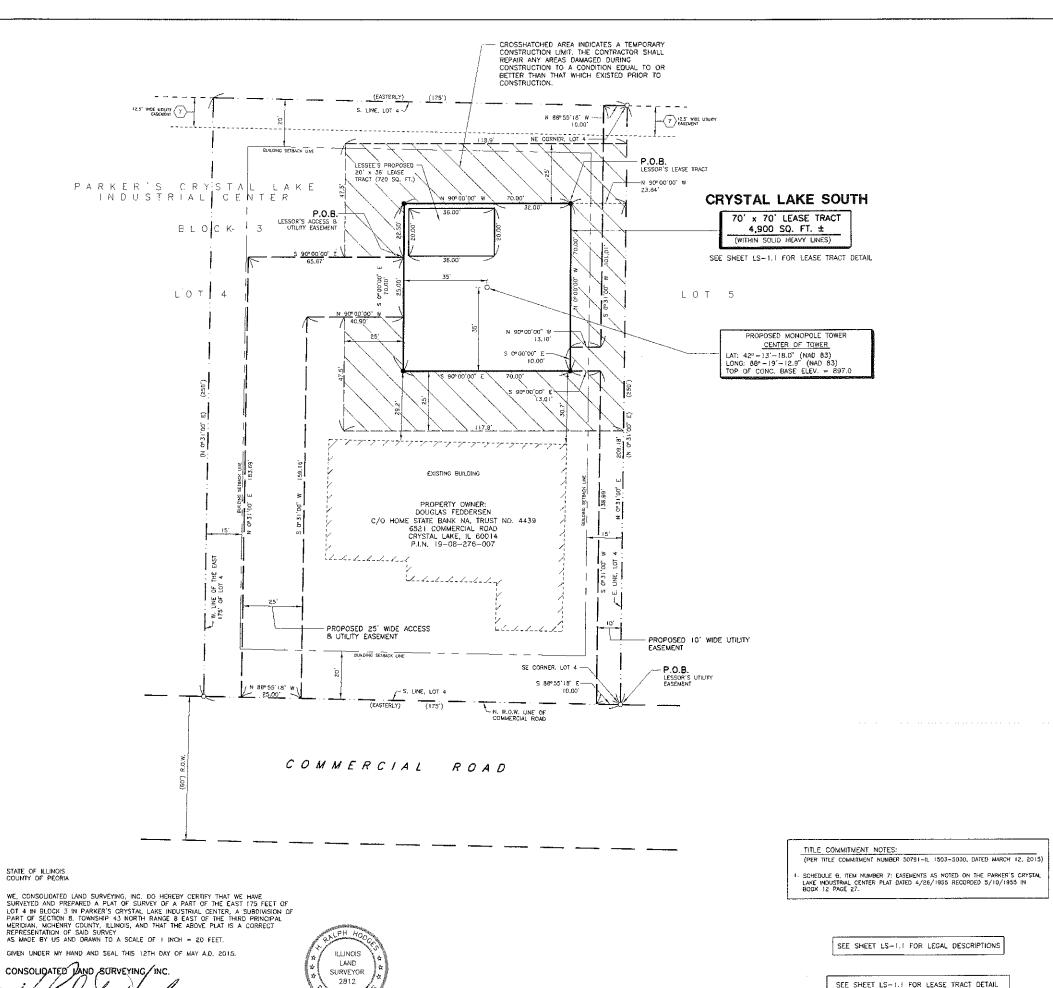
Should the wind speed increase beyond the capacity of the built-in safety factors, to the point of failure of one or more structural elements, the most likely location of the failure would be within one of the monopole shaft sections. This would result in a buckling failure mode, where the steel shaft would bend beyond its elastic limit (beyond the point where the shaft would return to its original shape upon removal of the wind load).

Therefore, the overall effect of an extreme wind event would be localized buckling of the monopole shaft. Assuming that the wind pressure profile is similar to that used to design the monopole, the shaft will buckle at the location of the highest combined stress ratio in the upper portion of the monopole. This would result in the portion of the monopole above "folding over" onto the portion below, essentially collapsing upon itself. *Please note that this letter only applies to a monopole designed and manufactured by Sabre Towers & Poles*.

Sincerely,

Keith J. Tindall, S.E. Vice President of Engineering OS1-006014
SIOUX CITY
IOWA
OF ILLING
MARGINALISM

SICERCE CORPICES 11-30-16

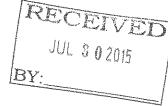


H. RALPH HODGES, JULINOIS PROFESSIONAL LAW SURVEYOR NO. 2812

EXPIRES: 11-30-16

Arbeit Cymritatifram.g. Magwegy, mae NORTHWEST HWY JAMES R. RAKOW ROAD

LOCATION MAP



LEGEND

BOUNDARY, LINE . OF. LEASE . SITE .. PARENT PARCEL RIGHT OF WAY LINE BUILDING SETBACK LINE EXISTING PROPERTY LINE PROPOSED EASEMENT LINE 0 SURVEY PIPE OR ROD FOUND

(250')

SHEET NUMBER

JOB NUMBER

SEE SHEET LS-LJ FOR LEASE TRACT DETAIL



----- FXISTING FASEMENT LINE

IRON ROD SET

INFORMATION OF RECORD



CHICAGO SMSA LIMITED PARTNERSHIP, D.B.A. VERIZON WIRELESS

REAL ESTATE MANAGER: OCTAVIO HERRERA 1515 EAST WOODFIELD RD. SCHAUMBURG, IL 60173

OFFICE: (847) 619-4142 CONSTRUCTION MANAGER:

OFFICE: (636) 793-9278

1300 W. COMMERCE DR. STE. 700

LAND SURVEYORS AND PROFESSIONAL ENGINEERS PHONE: 309-692-3434 FAX: 309-692-3433

PROFESSIONAL DESIGN FIRM NO. 184-002758

THIS DRAWING IS COPYRIGHTED AND IS THE SQLE PROPERTY OF CONSOLIDATED LAND SURVEYING, INC. REPRODUCTION OR OTHER USE OF THIS DRAWING OR THE HOFBAAHON CORNAMED HEREIN WITHOUT THE WRITTEN PERMISSION OF CONSOLIDATED LAND SURVEYING, INC. IS PROHIBITED.

PREPARED BY: HRH 5-12-15

ALL RIGHTS RESERVED

RON FAULY 500 TECHNOLOGY DRIVE 2ND FLOOR WELDON SPRING, MO 63304

IL 00-5777

SITE NAME:

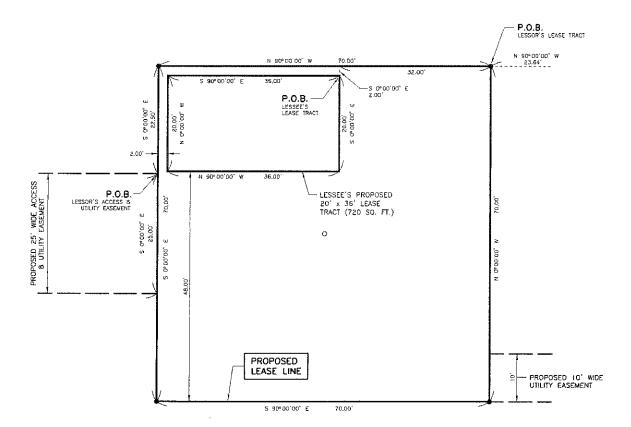
CRYSTAL LAKE SOUTH

SHEET NAME

LESSEE

PLAT OF SURVEY

9468-43-8-8B-03



PROPOSED LEASE TRACT DETAIL

SEE SHEET LS-I FOR PLAT OF SURVEY

LEGAL DESCRIPTION PROPOSED 20' x 36' LEASE TRACT 720 SO, FT, ±

A 20 FOOT BY 36 FOOT LEASE TRACT AND UTILITY EASEMENT BEING A PART OF LOT 4 IN BLOCK 3 IN PARKER'S CRYSTAL LAKE INDUSTRIAL CENTER, A SUBDIVISION OF PART OF SECTION 8, TOWNSHIP 43 NORTH, RANGE 8 EAST OF THE THIRD PRINCIPAL MERIDIAN, BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCING AT THE SOUTHEAST CORNER OF SAID LOT 4; THENCE NORTH 00°-31'-00" EAST (BEARINGS ASSUMED FOR THE PURPOSE OF DESCRIPTION ONLY) ALONG THE EAST LINE OF SAID LOT 4, A DISTANCE OF 209.18 FEET; THENCE NORTH 90° -00'-00'' WEST, A DISTANCE OF 23.64 FEET; THENCE CONTINUING NORTH $90^{\circ}-00'-00''$ WEST, A DISTANCE DISTANCE OF 23.84 FEET; THENCE COMINIONING MORTH 90°-00°-00 -00 WEST, A DISTANCE OF 2.00 FEET TO THE POINT OF BEGINNING OF THE TRACT TO BE DESCRIBED; THENCE CONTINUING SOUTH 00°-00'-00" EAST, A DISTANCE OF 2.00 FEET; THENCE NORTH 90°-00'-00" WEST, A DISTANCE OF 20.00 FEET; THENCE NORTH 90°-00'-00" WEST, A DISTANCE OF 20.00 FEET; THENCE NORTH 90°-00'-00" WEST, A DISTANCE OF 20.00 FEET; THENCE SOUTH 90°-00'-00" EAST, A DISTANCE OF 36.00 FEET TO THE POINT OF BEGINNING, CONTAINING 720 SOUARE FEET, MORE OR LESS, SITUATED IN THE COUNTY OF MICHIGAN AND STATE OF MILITIANIES. MCHENRY AND STATE OF ILLINOIS.

LEGAL DESCRIPTION PROPOSED 70' x 70' LEASE TRACT 4,900 sq. ft. ±

A 70 FOOT BY 70 FOOT LEASE TRACT AND UTILITY EASEMENT BEING A PART OF LOT 4 IN BLOCK 3 IN PARKER'S CRYSTAL LAKE INDUSTRIAL CENTER, A SUBDIVISION OF PART OF SECTION 8, TOWNSHIP 43 NORTH, RANGE 8 EAST OF THE THIRD PRINCIPAL MERIDIAN, BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCING AT THE SOUTHEAST CORNER OF SAID LOT 4: THENCE NORTH OO" -31'-00" COMMENCING AT THE SOUTHEAST CORNER OF SAID LOT 4; THENCE NORTH 00°-31'-00" EAST (BEARINGS ASSUMED FOR THE PURPOSE OF DESCRIPTION ONLY) ALONG THE EAST LINE OF SAID LOT 4, A DISTANCE OF 209.18 FEET; THENCE NORTH 90°-00'-00" WEST, A DISTANCE OF 23.64 FEET TO THE POINT OF BEGINNING OF THE TRACT TO 8E DESCRIBED: THENCE CONTINUING NORTH 90°-00'-00" WEST, A DISTANCE OF 70.00 FEET; THENCE SOUTH 00°-00'-00" EAST, A DISTANCE OF 70.00 FEET; THENCE SOUTH 90°-00'-00" EAST, A DISTANCE OF 70.00 FEET; THENCE NORTH 00°-00'-00" WEST, A DISTANCE OF 70.00 FEET TO THE POINT OF BEGINNING, CONTAINING 4,900 SQUARE FEET, MORE OR LESS, SITUATED IN THE COUNTY OF MCHENRY AND STATE OF ILLINOIS.

LEGAL DESCRIPTION PROPOSED 25' WIDE ACCESS & UTILITY EASEMENT

A 25 FOOT WIDE ACCESS AND UTILITY EASEMENT BEING A PART OF LOT 4 IN BLOCK 3 IN PARKER'S CRYSTAL LAKE INDUSTRIAL CENTER, A SUBDIVISION OF PART OF SECTION 8, TOWNSHIP 43 NORTH, RANGE 8 EAST OF THE THIRD PRINCIPAL MERIDIAN, BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCING AT THE SOUTHEAST CORNER OF SAID LOT 4; THENCE NORTH 00°-31'-00" EAST (BEARINGS ASSUMED FOR THE PURPOSE OF DESCRIPTION ONLY) ALONG THE EAST LINE OF SAID LOT 4, A DISTANCE OF 209.18 FEET; THENCE NORTH 90°-00'-00" WEST, A DISTANCE OF 23.64 FEET; THENCE CONTINUING NORTH 90°-00'-00" WEST, A DISTANCE DISTANCE OF 23.64 FEET; THENCE CONTINUING NORTH 90°-00'-00" WEST, A DISTANCE OF 70.00 FEET. THENCE SOUTH 00°-00'-00" EAST, A DISTANCE OF 22.50 FEET TO THE POINT OF BEGINNING OF THE EASEMENT TO BE DESCRIBED: THENCE CONTINUING SOUTH 00°-00'-00'-00' EAST, A DISTANCE OF 25.00 FEET; THENCE NORTH 90°-00'-00' WEST, A DISTANCE OF 40.90 FEET; THENCE SOUTH 00°-31'-00' WEST, PARALLEL WITH THE EAST LINE OF SAID LOT 4, A DISTANCE OF 159.16 FEET TO A POINT ON THE SOUTH LINE OF SAID LOT 4; THENCE NORTH 80°-55'-18" WEST ALONG THE SOUTH LINE OF SAID LOT 4, A DISTANCE OF 183.69 FEET; THENCE SOUTH 90°-00'-00' EAST, A DISTANCE OF 65.67 FEET TO THE POINT OF BEGINNING, SITUATED IN THE COUNTY OF MCHENRY AND STATE OF ILLINOIS.

LEGAL DESCRIPTION PROPOSED 10' WIDE UTILITY EASEMENT

A 10 FOOT WIDE UTILITY EASEMENT BEING A PART OF LOT 4 IN BLOCK 3 IN PARKER'S CRYSTAL LAKE INDUSTRIAL CENTER, A SUBDIVISION OF PART OF SECTION 8, TOWNSHIP 43 NORTH, RANGE 8 EAST OF THE THIRD PRINCIPAL MERIDIAN, BEING MORE PARTICULARLY DESCRIPTION AS COLLOWS. DESCRIBED AS FOLLOWS:

COMMENCING AT THE SOUTHEAST CORNER OF SAID LOT 4 AS THE POINT OF BEGINNING OF...
THE EASEMENT TO BE DESCRIBED; THENCE NORTH 00°—31'-00' EAST (BEARINGS
ASSUMED FOR THE PURPOSE OF DESCRIPTION ONLY) ALONG THE EAST LINE OF SAID LOT
4, A DISTANCE OF 250 FEET TO THE NORTHEAST CORNER OF SAID LOT 4; THENCE NORTH
88°—55'-18" WEST ALONG THE NORTH LINE OF SAID LOT 4, A DISTANCE OF 10,00 FEET; THENCE SOUTH 00° -31'-00" WEST, PARALLEL WITH THE EAST LINE OF SAID LOT 4, A DISTANCE OF 101.01 FEET; THENCE NORTH 90°-00'-00" WEST, A DISTANCE OF 13.10 DISTANCE OF 101.01 FEET; THENCE NORTH 90"-00"-00" WEST, A DISTANCE OF 10.00 FEET; THENCE SOUTH 90"-00"-00" EAST, A DISTANCE OF 13.01 FEET; THENCE SOUTH 90"-00"-00" EAST, A DISTANCE OF 13.01 FEET; THENCE SOUTH 00"-31"-00" WEST, PARALLEL WITH THE EAST LINE OF SAID LOT 4, A DISTANCE OF 138.99 FEET TO A POINT ON THE SOUTH LINE OF SAID LOT 4; THENCE SOUTH 88"-55"-18" EAST ALONG THE SOUTH LINE OF SAID LOT 4, A DISTANCE OF 10.00 FEET TO THE POINT OF BEGINNING, SITUATED IN THE COUNTY OF MCHENRY AND STATE OF ILLINOIS.

LEGAL DESCRIPTION EXISTING PARENT PARCEL

THE EAST 175 FEET OF LOT 4 IN BLOCK 3 IN PARKER'S CRYSTAL LAKE INDUSTRIAL CENTER, A SUBDIVISION OF PART OF SECTION 8, TOWNSHIP 43 NORTH RANGE B EAST OF THE THIRD PRINCIPAL MERIDIAN, ACCORDING TO THE PLAT THEREOF RECORDED MAY 10, 1955 AS DOCUMENT NO, 292393, IN BOOK 12 OF PLATS, PAGE 27 IN MCHENRY COUNTY,

CHICAGO SMSA LIMITED PARTNERSHIP, 0.8.A. VERIZON WIRELESS

REAL ESTATE MANAGER: OCTAVIO HERRERA 1515 EAST WOODFIELD RO. SCHAUMBURG, IL 60173 OFFICE: (847) 619-4142

CONSTRUCTION MANAGER: RON PAULY 500 TECHNOLOGY DRIVE 2ND FLOOR WELDON SPRING, MO 63304 OFFICE: (636) 793-9278

CLS

1300 W. COMMERCE OR, STE. 700 PEORIA, ILLINOIS 61615

LAND SURVEYORS
AND PROFESSIONAL ENGINEERS

PHONE: 309-692-3434 FAX: 309-692-3433

PROFESSIONAL DESIGN FIRM NO. 184-002756

THIS DRAWING IS COPYRIGHTED AND IS THE SOLE PROPERTY OF CONSOLIDATE LAND SURVEYING, INC., REPRODUCTION OF OTHER USE OF THIS BRAWING OR THE INFORMATION CONTARED HEREM WITHOUT THE WITHOUT PERMISSION OF CONSOLIDATED LAND SURVEYING, INC. IS PROMISITED.

ALL RIGHTS RESERVED (C) 2015

	PREP	ARED	H۲:	HRH	5-12-15
_					·····

	1					
		1	1			
			1			
- 3						
- 3			ŀ			
-			ŀ			
						
			ļ	1		
		!				
- 3			Į.			
	i		l			
			ľ			



IL 00-5777

SITE NAME:

CRYSTAL LAKE SOUTH

SHEET NAME

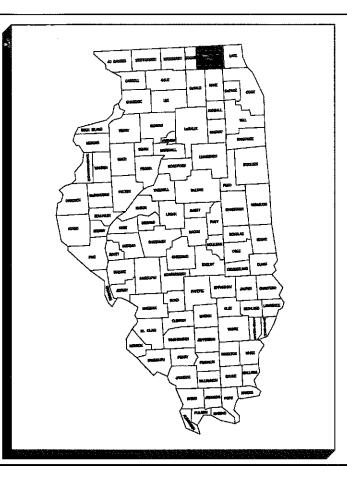
LESSEE

PLAT OF SURVEY LEGAL DESCRIPTIONS

SHEET NUMBER

JOB NUMBER

9468-43-8-88-03





SITE NAME: CRYSTAL LAKE SOUTH CST SITE #: IL 00-5777

CHICAGO SMSA LIMITED PARTNERSHIP

D.B.A. VERIZON WIRELESS

SITE NAME: CRYSTAL LAKE PROJECT NUMBER: 20130992166 **LOCATION CODE: 281875**

'CEIVED

JUL 3 0 2015

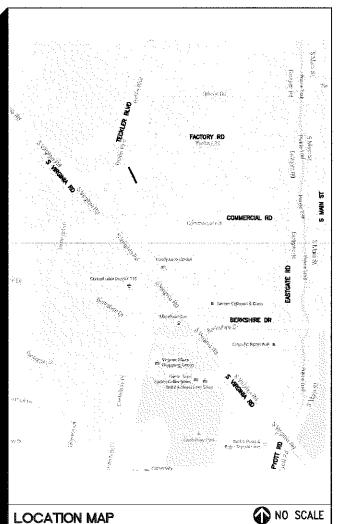
BY

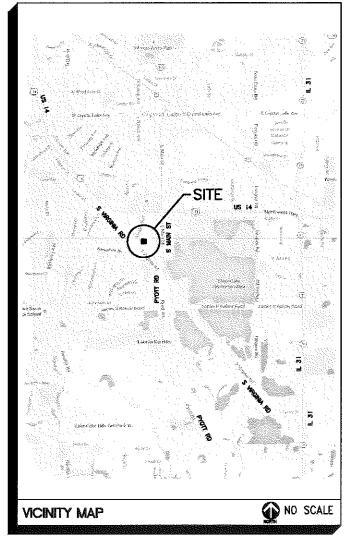


- I. PROPOSED RAWLAND SITE
- 2. PROPOSED OVERALL HEIGHT OF THE MONOPOLE TOWER STRUCTURE TO BE 130'-O" A.G.L. TO THE TOP OF THE LIGHTNING ROD
- 3. PROPOSED CENTERLINE OF ANTENNAS TO BE MOUNTED AT 120'-0" A.G.L.
- 4. PROPOSED RIGHT-HANDED PREFABRICATED UNMANNED EQUIPMENT SHELTER (11'-6" x 21'-9 1/2")
- 5. PROPOSED DIESEL GENERATOR (48KW MAX)
- 6. PROPOSED 70' x 70' LEASE TRACT

FIBER COORDINATION IS NOT COMPLETE (PENDING FIBER CONTACT).
PRIOR TO CONSTRUCTION, CONTACT
DESIGNER FOR UPDATE.







PROJECT SUMMARY CONSULTING TEAM SHEET INDEX SHEET No. DESCRIPTION DIRECTOR OF CONSTRUCTION: CRYSTAL LAKE SOUTH YURI DORROWOLSKY TITLE SHEET CENTRAL STATES TOWER III, LLC, A DELAWARE LIMITED LIABILITY COMPANY SITE PLAN SITE ADDRESS: 323 SOUTH HALE STREET, SUITE 100 WHEATON, IL 30187 6521 COMMERCIAL ROAD CRYSTAL LAKE, IL 60014 PHONE: (630) 221-8500 X104 ALCONOLIN TOWNSHIP Č-4 MCHENRY COUNTY ELECTRICAL COMPANY: FIBER_PROVIDER: COMMONWEALTH LS-1. PROPERTY OWNER: **EDISON** A-1 DOUGLAS FEDDERSEN 123 ENERGY WAY ROCKFORD, IL 61109 MIKE PERRON A-1.1 C/O HOME STATE BANK NA, TRUST NO. 4439 A-1.3 6521 COMMERCIAL ROAD (815) 477-5204 ACCT# 0899111070 CRYSTAL LAKE, IL 60014 A-1.4 ANTENNA INFORMATION 815-459-5252 ANTENNA INFORMATION A-2 ICE BRIDGE/COAX PROFILE WITH GROUNDING FIRE DEPARTMENT: SHELTER AND GROUNDING SCHEMATIC WITH LEGEND A-3 GEOGRAPHIC COORDINATES: CRYSTAL LAKE LATITUDE: 42"-13"-18.0" LONGITUDE: 088"-19"-12.9" FIRE STATION #1 GROUNDING DETAILS & NOTES 100 W. WOODSTOCK STREET UTILITY ROUTING PLAN & NOTES A.M.S.L.: ELEV. 897.0 CRYSTAL LAKE, IL 60014 E-2 TRENCH DETAILS TEL: (B15) 356-3640 UTILITY PLAN, DETAILS & NOTES CURRENT ZONING: SITE DETAILS M-MANUFACTURING SHELTER FOUNDATION STRUCTURAL ENGINEER: SHELTER MANUFACTURER: D-2 GROUNDING DETAILS FIBREBOND CORPORATION FIBREBOND CORPORATION FENCING DETAILS 1300 Dayenport Drive linden, Louisians 71866 1-800-824-2614 SP-1 SPECIFICATIONS ZONING OFFICE & BUILDING PERMIT DATA: SP-2 CRYSTAL LAKE PLANNING & ECONOMIC DEVELOPMENT SPECIFICATIONS SITE PHOTOS 100 W. WOODSTOCK STREET SHELTER DETAILS CRYSTAL LAKE, IL 60014 SHELTER DETAILS 815-356-3615 HANDICAP REQUIREMENTS: 8-3 SHELTER DETAILS COST OF BUILDING PERMIT: TO BE DETERMINED SHELTER DETAILS SHELTER ITEM LIST NTC-1 NOTICE TO CONTRACTORS SURVEYOR/ENGINEER; CLS DIRECTIONS TO SITE CONSOLIDATED LAND SURVEYING, INC FROM SCHAUMBURG, TURN RIGHT ONTO N MEACHAM RD. TURN LEFT 1300 W. COMMERCE DR. STE. 700 · PEORIA, ILLINOIS 61615 LAND SURVEYORS AND PROFESSIONAL ENGINEERS ONTO IL-62 W/E ALCONQUIN RD. SLIGHT RIGHT ONTO ALCONQUIN RD. TURN RIGHT ONTO PYOTT RD. TURN LEFT ONTO S VIRGINIA RD. TURN RIGHT ONTO COMMERCIAL RD. SITE IS LOCATED ON THE LEFT 309-692-3434 TOWER PLANS AND BUILDING PLANS ARE PROVIDED BY OTHERS AND HAVE BEEN COMBINED AND COMPILED INTO THESE CONSTRUCTION PLANS, SEE GENERAL NOTE 3 ON SHEET C2. PROFESSIONAL DESIGN FIRM NO. 184-0027

ENLARGED SITE PLAN GENERAL NOTES, EROSION CONTROL FOUNDATION PLAN AND DETAILS LESSEE PLAT OF SURVEY LESSEE PLAT OF SURVEY LEGAL DESCRIPTIONS TOWER ELEVATION & NOTES ANTENNA INFORMATION ANTENNA INFORMATION ANTENNA INFORMATION

IL 00-5777

CHICAGO SMISA LIMITED PARTNERSHIP, D.B.A. VERIZON WIRELESS REAL ESTATE MANAGER:

OCTAMO HERRERA 1515 EAST WOODFIELD RD. OFFICE: (847) 619-4142

CONSTRUCTION MANAGER: RON PAULY SOO TECHNOLOGY DRIVE 2ND FLOOR WELDON SPRING, MO 63304

OFFICE: (636) 793-9278

CONSOLIDATED LAND SURVEYE 1300 W. COMMERCE DR. STE. 700 PEORIA, ILLINOIS 61615

LAND SURVEYORS
AND PROFESSIONAL ENGINEERS PHONE: 309-692-3434 FAX: 309-692-3433

© 2015

ALL RIGHTS RESERVED

EXPIRES: 11-30-15

7-28-15 ADDED LANDSCAPING PER CITY COMMENTS

SITE NAME: **CRYSTAL** LAKE

SOUTH

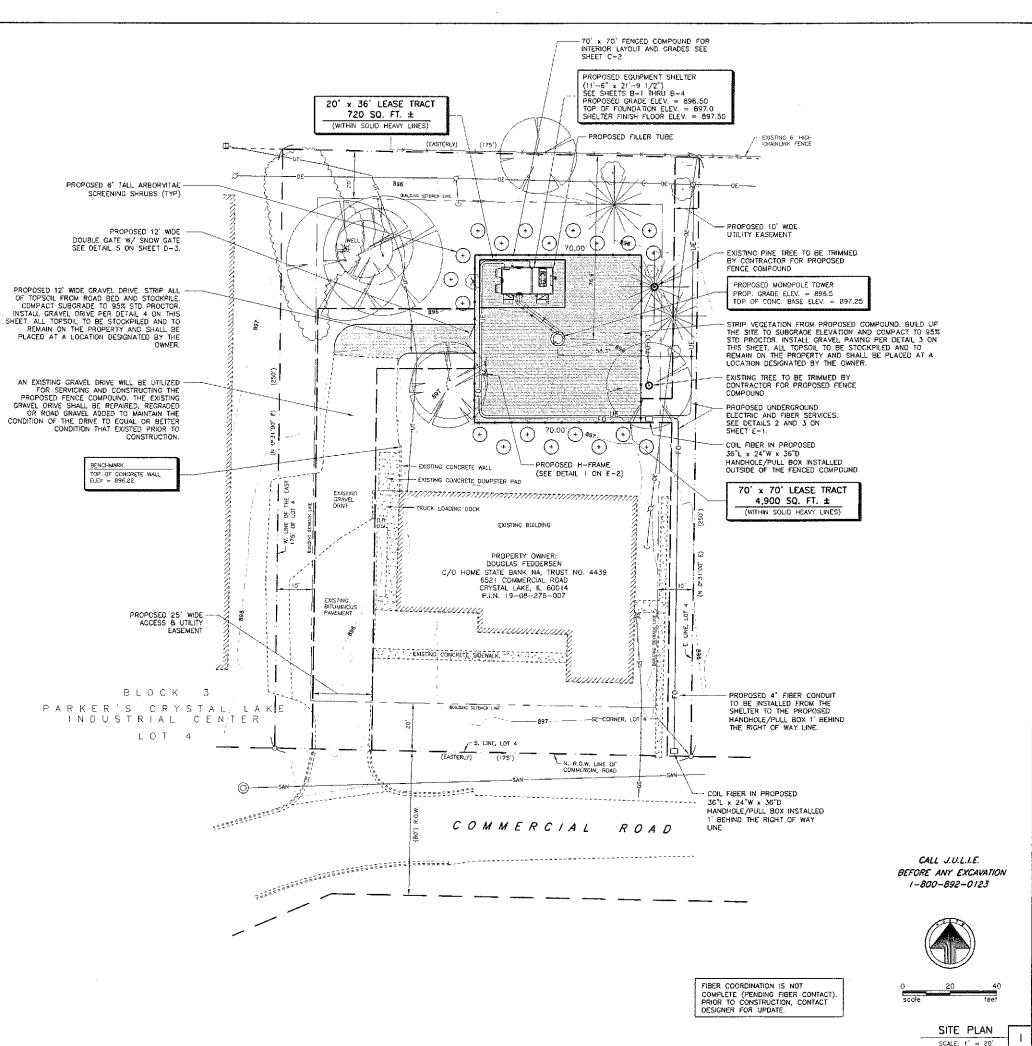
SHEET NAME

TITLE SHEET

SHEET NUMBER

JOB NUMBER

9468-43-8-68-03



BENCHMARK DATUM

LOCATION: TOP OF CONCRETE WALL ADJACENT TO DUMPSTER AREA ELEVATION: 898.22

ZZZZZZ EXISTING BUILDING LINE IRON ROD SET SURVEY PIPE OR ROD FOUND EXISTING CONTOUR ELEVATION EXISTING SPOT ELEVATION EXISTING METER EXISTING VALVE 0 EXISTING MANIFOLE UNITAL POLE UTILITY POLE WITH TRANSFORMER TELEPHONE PEDESTAL SANITARY SEWER ------ W------ WATERNAIN GAS SERVICE ----- GS------UNDERGROUND ELECTRIC OVERHEAD ELECTRIC UNDERGROUND TELEPHON

LEGEND

X 675.25 OR G75x25 PROPOSED SPOT ELEVATION 755 PROPOSED CONTOUR ELEVATION CONCRETE SURFACE GRAVEL SURFACE FENCE LINE \odot TREE BUSH

(3)

STEESESSES EXISTING CURB AND GUTTER

INFORMATION OF RECORD

- COMPACIFO SUBGRADE OR FILE TO 95% STO

PROCTOR DENSITIES OR PROOF ROLL

CONSTRUCTION NOTES

CRYSTAL LAKE
PLANNING B ECONOMIC DEVELOPMENT DEPARTMENT
100 W. WOODSTOCK STREET CRYSTAL LAKE, IL 60014 (815) 356-3614

ZONING OFFICE &

BUILDING PERMIT DATA

COST OF BUILDING PERMIT: UNKNOWN

THE CONTRACTOR IS RESPONSIBLE FOR PICKING UP THE BUILDING PERMIT AND FOR PAYING PERMIT FEES

SPECIAL CONSTRUCTION NOTES

 ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST CELL SITE AND RADIO STATION PROTECTION ENGINEERING CONSIDERATIONS, PRACTICE 08-887-030-085, ISSUE 2, DATED JULY 2001, PAGES 1-69.

2. 24 HOURS NOTICE SHALL BE GIVEN TO THE CONSTRUCTION MANAGER AND THE RESPONSIBLE SITE TECHNICIANS PRIOR TO CLOSING TRENCHES FOR INSPECTION OF GROUNDING.

3. THE CONTRACTOR SHALL NOTIFY THE PROPERTY CONTACT OR OWNER A MINIMUM OF 24 HOURS PRIOR TO ENTERING THE PROPERTY.

4. THE CONTRACTOR SHALL COMPLY WITH ALL OCCUPATIONAL SAFETY AND HEALTH STANDARDS ISSUED UNDER THE OSH ACT THAT APPLY TO ACTIONS AND CONDUCT OF WORKERS AND PERSONNEL ON THE JOB SITE.

THE CONTRACTOR MUST FURNISH ALL EMPLOYEES A SAFE AND HEALTHFUL WORKING ENVIRONMENT FREE FROM RECOGNIZED HAZARDS.

5. THE CONTRACTOR SHALL PROVIDE PERSONAL PROTECTIVE EQUIPMENT FOR ALL WORKERS AND

7. THE SITE CONTRACTORS SHALL BE MINDFULL OF KEEPING THE ACCESS DRIVE AND THE PUBLIC STREET CLEAN OF DEBRIS, MUD AND DIRT DURING CONSTRUCTION. THEY SHALL PROVIDE CLEAN—UP AT LEAST TWICE DAILY AS NEEDED OR AS DIRECTED BY THE TOWNSHIP INSPECTIONS DEPARTMENT.

2

SEE PLAN FOR SLOPE DIRECTION

GRAVEL SECTION SHOWN SHALL EXTEND TO THE PROPOSED LEASE LINE UNLESS OTHERWISE SHOWN ON THIS PEAN. MATCH EXISTING GRADE

7 49 30 6" OF 3/4" FINE CRUSHED STONE COMPACTED TO 95% STD. PROCTOR 6" OF 2"-3" OVERSIZE STONE
COMPACTED TO 95% STD. PROCTOR - LAYER OF GRAVEL STABILIZATION FABRIC - COMPACTED SUBGRADE OR FILL TO 95% STO PROCTOR DENSITIES OR PROOF ROLL

GRAVEL COMPOUND PAVING DETAIL 3 NOT TO SCALE

12'-0" 6'-0" _ _ _ 6' -0" SEE PLAN FOR SLOPE DIRECTION 5.0 6° OF 3/4" FINE CRUSHED STONE COMPACTED TO 95% STO. PROCTOR

_6" OF 2"-3" OVERSIZE STONE "COMPACTED TO 95% STO, PROCTOR

GRAVEL ACCESS DRIVE DETAIL

NOT TO SCALE

The locations of existing utilities shown on this It ine locations of existing utilates shown on this sheet are only approximate and may not be complete. The contractor shall verify location of all utilities in the field prior to commencing construction. Protect all existing utilities which are fa remain. Upon discovery of unknown or conceoled utilities, notify orchitect/owner immediately. Coll J.U.L.I.E. at 1-800-892-0123.

2. All proposed construction work shell be in accordance with the lotest edition of the standard specifications for road and bridge construction in Illinois.

3. All utility trenches in structural areas shall be backfilled to subgrade with trench backfill material and compacted to at least 95 percent of maximum dry density as determided by the standard practor

4. A minimum of 8 inches of lopsoil shall be 4. A minimum of a ficties or rapsol stall be placed in all unpowed disturbed areas. Topsoil sho be fertile, friable, sandy loam and shall be free of rools, affeks and any other extraneous materials and toxic substances. Finish grade all unpowed disturbed oreas to a condition suitable for

5. Traffic control during construction shall be in accordance with stote and city requirements. At oil times traffic control and construction procedures shall be performed in a way as to provide reasonable safely to all involved, including, but not limited to, construction workers, motorists and pedestrions. The safety of all involved shall be the safe responsibility of the contractor.

6. All existing surrounding areas and property shall be properly protected from damage and left undamaged from operations of the contractor. If such damage occurs, it shall be the sole responsibility of the contractor.

Contractor shall verify all dimensions shown on

Contractor shall acquire all permits that are required by the local authorities, and all construction work shall be performed in compliance with the requirements of all applicable local, state and federal laws, regulations and rules.

See lower and building plans for respective site

10. Elevations are above mean sea level.

Do not scale any dimensions from this

12. All existing recorded easements are indicated iz. All existing recorded edistributions or indicates an this drawing to the best of the surveyors knowledge per visual inspection, survey drawings and information received from the developer. Contractor shall contact J.U.L.I.E. at 1—800—892—0123-48 hours prior to start of construction to have underground utilities located and marked.

All construction shall conform to the 1995 BOCA code, NEC code, IBC 2003 and per local

CHICAGO SMSA LIMITEO PARTNERSHIP, D.B.A. VERIZON WIRELESS

REAL ESTATE MANAGERS

OCTAVIO HERRERA 1515 EAST WOODFIELD RD.

SCHAUMBURG, IL 60173 OFFICE: (847) 619-4142

CONSTRUCTION MANAGER:

500 TECHNOLOGY DRIVE 2ND FLOOR

WELDON SPRING MO 63304

OFF:CE: (636) 793-9278

RON PAULY

CLS W. COMMERCE DR. STE. 700 PEORIA, ILLINOIS 61615

LAND SURVEYORS AND PROFESSIONAL ENGINEERS

PHONE: 309-692-3434 FAX: 309-692-3433 ROFESSIONAL DESIGN FIRM NO. 184-00275

THIS DRAWING IS COPYRIGHTED AND IS THE SOLE PROPERTY OF CONSOLIDATIVE LAND SURVEYING, INC., REPRODUCTION OR OTHER USE OF THIS THAMMED FREIN THE INFORMATION CONTINEED HERBIN MITHOUT THE WITTEN PERMISSION OF CONSOLIDATED LAND SURVEYING, INC. IS PROHIBITED.

ALL RIGHTS RESERVED (C) 2015

PREPARED BY: HRH 5-12-15

7-28-15 AODED LANDSCAPING PER CITY COMMENTS



IL 00-5777

SITE NAME:

CRYSTAL LAKE SOUTH

SHEET NAME

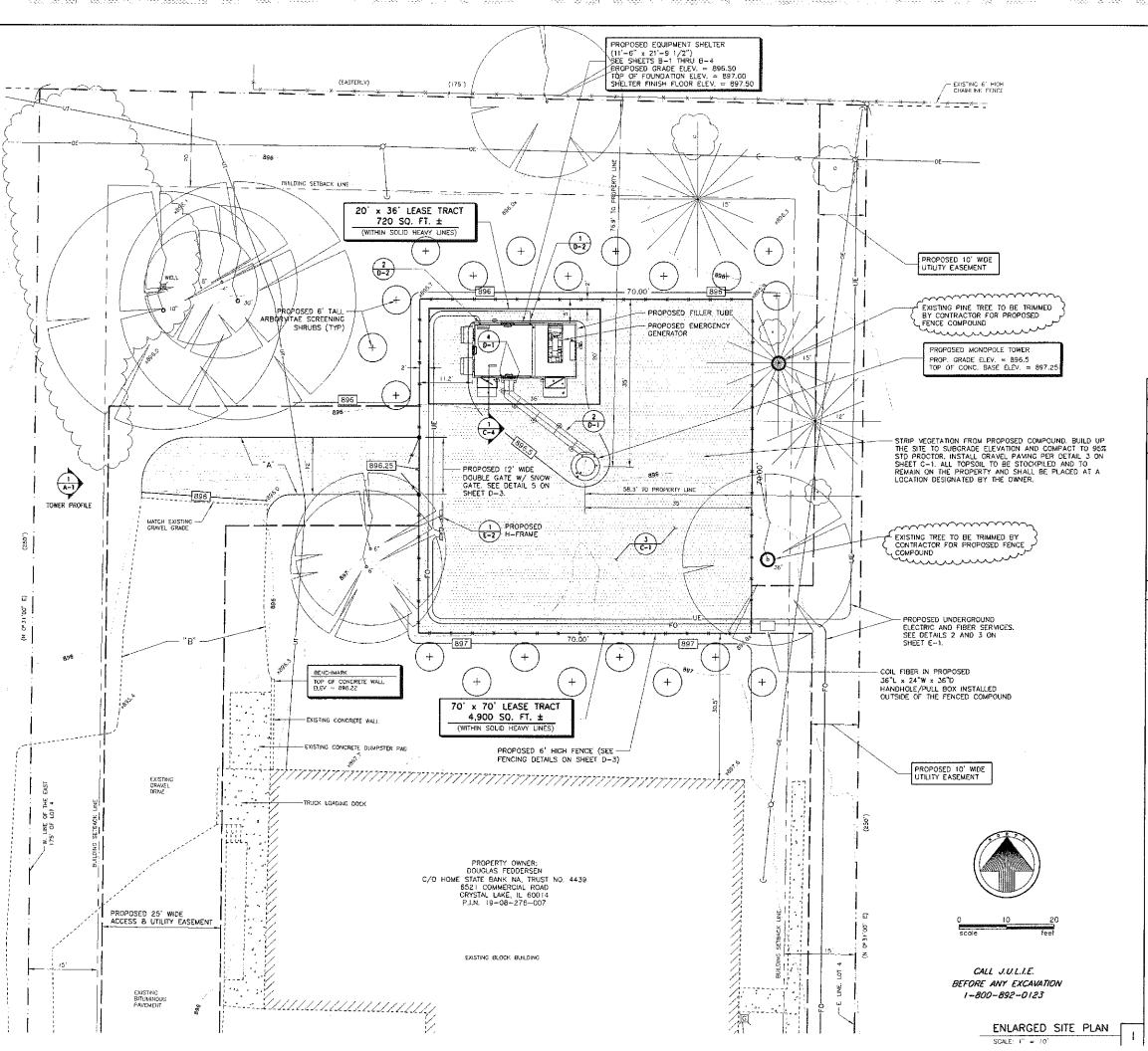
SITE PLAN

SHEET NUMBER



JOB NUMBER 9468-43-8-88-03

5



"PROPOSED 12" WIDE GRAVEL DRIVE. STRIP ALL
OF TOPSOIL FROM ROAD BED AND STOCKPILE.
COMPACT SUBGRADE TO 95% STD PROCTOR.
INSTALL GRAVEL DRIVE PER DETAIL 4 ON SHEET
C-1. MATCH EXISTING ADJACENT GRADES. ALL
TOPSOIL TO BE STOCKPILED AND TO REMAIN ON
THE PROPERTY AND SHALL BE PLACED AT A
LOCATION DESIGNATED BY THE OWNER.

"B" AN EXISTING GRAVEL DRIVE WILL BE UTILIZED FOR SERVICING AND CONSTRUCTING THE PROPOSED FENCE COMPOUND. THE EXISTING GRAVEL ORIVE SHALL BE REPAIRED, REGRADED OR ROAD GRAVEL ADDED TO MAINTAIN THE CONDITION OF THE DRIVE TO ECUAL OR BETTER CONDITION THAT EXISTED PRIOR TO CONSTRUCTION.

FIBER COORDINATION IS NOT COMPLETE (PENDING FIBER CONTACT). PRIOR TO CONSTRUCTION, CONTACT DESIGNER FOR UPDATE.

BENCHMARK DATUM

LOCATION: TOP OF CONCRETE WALL ADJACENT TO DUMPSTER PAD

ELEVATION: 898.22

GENERAL NOTES

I. SEE SHEET C-I FOR LEGEND.

2. SEE SHEET G-3, SP-1 & SP-2 FOR CONSTRUCTION NOTES & SPECIFICATIONS.

3. TOWER PLANS, BUILDING PLANS, GROUNDING PLANS AND ANTENNA CONFIGURATION DESIGN WERE PROVIDED BY DIFFERENT ENGINEERING FIRMS AND EQUIPMENT MANUFACTURES. CONSOLIDATED LAND SURVEYING, INC. HAS COMBINED AND COMPILED THIS DATA INTO CONSTRUCTION PLANS FOR THIS PROJECT.

4. ALL SITE PREPARATION AND UTILITIES CONSTRUCTION CONCERNING GRAVEL, PAYEMENTS, TRENCHING, BACKFILLING, STORM SEWER, EXCAVATION, ETC., IF NOT SPECIFICALLY DETAILED OR SPECIFIED SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE LATEST EDITION OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION IN ILLINOIS AND ARE AVAILABLE AT OUR OFFICE FOR EXAMINATION.

CONTRACTOR NOTES

- I. IF THE CONTRACTOR ENCOUNTERS A CONFLICT OR DISCREPANCY BETWEEN THE PLAN VERSUS SITE CONDITIONS OR LOCAL CODES, HE SHALL CONTACT THE OWNER OR OWNER'S REPRESENTATIVE TO ADDRESS AND RESOLVE THESE CONFLICTS OR DISCREPANCIES, PRIOR TO BIDDING.
- 2. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR CONTACTING THE ELECTRICAL POWER PROVIDER AND INCLUDING THE COST OF OBTAINING ELECTRICAL SERVICE IN THEIR BID.
- 3. THE CONTRACTOR SHALL INCLUDE IN THEIR BID AND IS RESPONSIBLE FOR THE COST OF THE ANTENNA MOUNTS, COAX SUPPORTS, AS NEEDED, THE COAX BRIDGE AND ALL NECESSARY HARDWARE.
- 4. THE CONTRACTOR SHALL INCLUDE IN THEIR BID AND IS RESPONSIBLE FOR THE PROPOSED ANTENNA INSTALLATION WORK AND ALL NECESSARY HARDWARE SUCH AS (BUT NOT LIMITED TO), THE TOP TOWER MOUNTS, THE INSIDE TOWER MOUNTS THE COAX BRIDGE, CABLE LADDER, ANTENNA MOUNTS AND MOUNTS FOR THE COAX BRIDGE.
- 5. THE CONTRACTOR SHALL INCLUDE IN THEIR BID AND IS RESPONSIBLE FOR THE COST OF EXTENDING THE GENERATOR VENT PIPE 6 INCHES ABOVE THE ROOF LINE AFTER THE BUILDING IS IN PLACE.
- 6. THE CONTRACTOR SHALL INCLUDE IN THEIR BID AND IS RESPONSIBLE FOR THE COST OF INSTALLING THE GPS ANTENNA ON A 1 1/4" DIA CALVANIZED PIPE, ANTENNA MOUNTS AND ALL NECESSARY HARDWARE AND BRACKETS. THE GPS ANTENNA SHALL BE MOUNTED TO THE COAX BRIDGE AS SHOWN ON THE PLAN.
- THE CONTRACTOR SHALL SWEEP TEST ALL COAX LINES AND VERIFY WITH OPERATIONS PERSONNEL PRIOR TO PULLING OFF THE JOB. THE CONTRACTOR SHALL PROVIDE A MINIMUM OF 48 HOURS NOTICE PRIOR TO THE TIME OF THE SWEEP TEST.
- 8. THE CONTRACTOR SHALL BRING THE COAX LINES FROM THE COAX BRIDGE TO INSIDE THE EQUIPMENT SHELTER BEFORE CUTTING THE COAX.
- 9. THE CONTRACTOR IS RESPONSIBLE FOR REVIEWING ALL CONSTRUCTION DOCUMENTS AND CONSTRUCTION PLANS PRIOR TO SUBMITTLING THEIR BID. THE SUBMITTLE OF THEIR BID ACKNOWLEDGES THAT THEIR REVIEW OF SUCH DOCUMENTS AND PLANS ARE COMPLETE.
- 10. THE CONTRACTOR SHALL COMPLY WITH ALL OCCUPATIONAL SAFETY AND HEALTH STANDARDS ISSUED UNDER THE OSH ACT THAT APPLY TO ACTIONS AND CONDUCT OF WORKERS AND PERSONNEL ON THE JOB SITE.
- II. THE CONTRACTOR MUST FURNISH ALL EMPLOYEES A SAFE AND HEALTHFUL WORKING ENVIRONMENT FREE FROM RECOGNIZED HAZARDS.
- 12. THE CONTRACTOR SHALL PROVIDE PERSONAL PROTECTIVE EQUIPMENT FOR ALL WORKERS AND PERSONNEL.
- 13. LOCATION OF ANY FIELD TILE IS UNKNOWN. CONTRACTOR SHALL FIELD VERRY TILE LOCATIONS PRIOR TO CONSTRUCTION. AS WELL AS USE CAUTION TO PREVENT ANY DAMAGE TO SAID TILE. ANY DAMAGE THAT OCCURS DURING CONSTRUCTION TO FIELD TILE SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO REPAIR AND/OR REPLACE.

CHICAGO SMSA LIMITEO PARTNERSHIP, D.B.A. VERIZON WRELESS

> REAL ESTATE MANAGER: OCTAVIO HERRERA 1515 EAST WOODFIELD RD. SCHAUMBURG, IL 60173 OFFICE: (847) 619-4142

CONSTRUCTION MANAGER: RON PAULY 500 TECHNOLOGY BRIVE 2ND FLOOR WELDON SPRING, MO 63304 OFFICE: (636) 793-9278

CG

CONSOLIDATED LAND SURV

1300 W. COMMERCE DR. STE. 700 PEORIA, ILLINOIS 61615

LAND SURVEYORS AND PROFESSIONAL ENGINEERS

PHONE: 309-692-3434 FAX: 309-692-3433

THIS DRAWING IS COPYRIGHTED AND IS THE SCILE PROPERTY OF CONSOLIDATED LAND SURVEYING, INC., REPRODUCTION OR OTHER USE OF THIS DRAWING OR THE INFORMATION CONTAINED HEREIN WITHOUT THE WRITTEN PERMISSION OF CONSOLIDATED LAND SURVEYING, INC. IS PROHIBITED.

ALL RIGHTS RESERVED (C) 2015

PREPARED BY: HRH 5-12-15

-		
	7-28-15	ADDED LANDSCAPING PER CITY COMMENTS



IL 00-5777

SITE NAME:

CRYSTAL LAKE SOUTH

SHEET NAME

ENLARGED SITE PLAN

SHEET NUMBER

C-2

JOB NUMBER

9468-43-8-8B-03

EROSION AND SEDIMENT CONTROL MEASURES:

UNLESS OTHERWISE INDICATED, ALL VEGETATION AND STRUCTURAL EROSION AND SEDIMENT CONTROL PRACTICES WILL BE CONSTRUCTED AND MAINTAINED ACCORDING TO MINIMUM STANDARDS AND SPECIFICATIONS OF THE ILLINOIS ENVIRONMENTAL PROTECTION AGENCY FOR

SCHEDULE OF EROSION AND SEDIMENT CONTROL MEASURES:

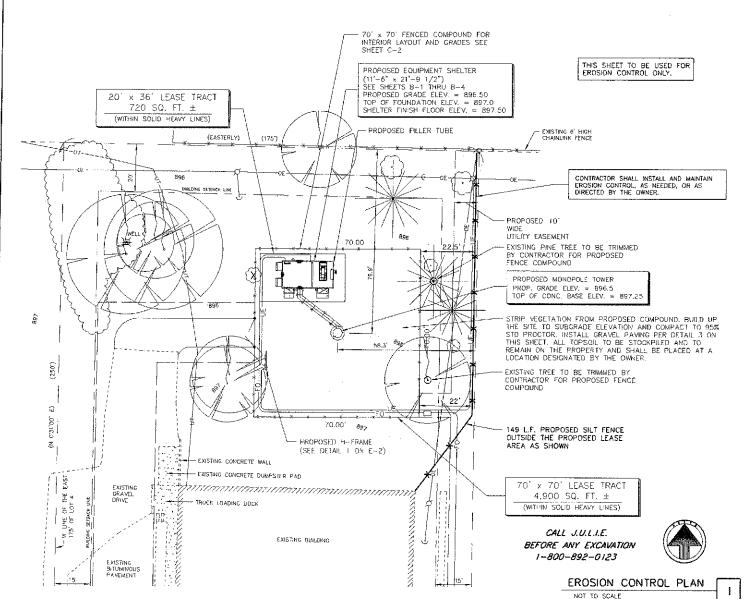
THE FOLLOWING SEQUENCE OF EVENTS AND EROSION CONTROL MEASURES SHALL BE INCORPORATED INTO THE CONSTRUCTION SCHEDULE FOR THIS PROJECT AND SHALL APPLY TO ALL CONSTRUCTION ACTIVITIES WITHIN THE PROJECT LIMITS:

- 1. ALL STORM WATER MANAGEMENT FACILITIES INCLUDING EROSION CONTROL ARE TO BE INSTALLED AND MADE OPERATIONAL AS A FIRST STEP BEFORE THE START OF CLEARING AND GRUBBING OPERATIONS.
- 2. ALL UNPAYED AREAS AND/OR AREAS DISTURBED BY CONSTRUCTION SHALL HAVE TOPSOIL PLACED AND BE SEEDED.
- 3. ALL DISTURBED AREAS, WHICH ARE NOT DESIGNATED FOR PAVING, UTILITY OR STRUCTURAL USES OR AREAS THAT HAVE BEEN STRIPPED AND HAVE FINAL GRADE ESTABLISHED, SHALL HAVE PERMANENT SOIL STABILIZATION APPLIED WITHIN SEVEN DAYS THEREAFTER. ALL STRIPPED AREAS THAT DO NOT HAVE FINAL GRADE ESTABLISHED, SHALL HAVE TEMPORARY SOIL STABILIZATION APPLIED WITHIN SEVEN DAYS THEREAFTER.
- 4. INLET PROTECTION SHALL BE INSTALLED AT ALL STORM WATER STRUCTURES (WHEN PRESENT) TO PREVENT SEDIMENT FROM ENTERING THE STORM SEWER SYSTEM.
- 5. A WEEKLY RECORD OF EROSION/SEDIMENT CONTROL MEASURES AND MAINTENANCE SHALL BE MAINTAINED BY THE CONTRACTOR.
 THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL EROSION CONTROL MEASURES AND MAINTENANCE THROUGHOUT THE LIFE OF

EROSION AND SEDIMENT CONTROL MAINTENANCE:

IN GENERAL, ALL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE CHECKED AFTER EACH RAINFALL OR WEEKLY, WHICHEVER IS MOST FREQUENT, AND SHOULD BE CLEANED AND REPAIRED ACCORDING TO THE FOLLOWING SCHEDULE:

- 1. SILT FENCES SHALL BE CHECKED AFTER EVERY RAINFALL AND AT LEAST DAILY DURING PROLONGED PERIODS OF RAIN, SEDIMENTS MUST BE REMOVED WHEN DEPOSITS REACH APPROXIMATELY 1/2 THE HEIGHT OF THE SILT FENCE.
- 2. STRAW BALE BARRIERS WILL BE CHECKED REGULARLY FOR UNDERMINING OR DETERIORATION OF THE BALES.
- 3. ALL SEEDED AREAS WILL BE CHECKED REGULARLY TO SEE THAT A GOOD STAND IS MAINTAINED, AREAS SHOULD BE FERTILIZED AND RE—SEEDED AS NEEDED.
- 4 ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE DISPOSED OF WITHIN 30 DAYS FOLLOWING FINAL SITE STABILIZATION OR AFTER THE TEMPORARY MEASURES ARE NO LONGER NEEDED, UNLESS OTHERWISE AUTHORIZED BY THE CONSTRUCTION MANAGER/ ENGINEER.

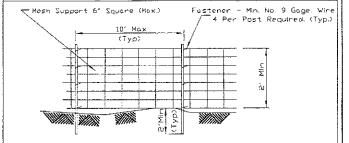


GENERAL NOTES

- I. SCHEDULE: THE CONSTRUCTION OF THE SITE REQUIRES A CERTAIN SEQUENCE OF EVENTS TO MINIMIZE CONSTRUCTION TIME REQUIRED UNTIL AVAILABILITY OF CELLULAR TELEPHONE SERVICE.
- 2. BENCHMARK: SEE SURVEY FOR ADDITIONAL INFORMATION
- 2. BENCHMARK: SEE SURVEY FOR ADDITIONAL INFORMATION.

 3. CONSTRUCTION STAKING: THE GENERAL CONTRACTOR SHALL CONTACT THE SURVEYOR TO SCHEDULE CONSTRUCTION STAKING AT LEAST 48 HOURS PRIOR TO SITE LAYOUT. SURVEYOR TO STAKE LEASE AREA CORNERS, SHELTER CORNERS, FENCE CORNERS, CENTER OF TOWER AND CENTERING OF ALL ACCESS AND UTILITY EASEMENTS. ANY SITE CONSTRUCTION LAYOUT WORK DONE BY ANY OTHER(S) THAN CONSOLIDATED LAND SURVEYING INC., SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR STORTUCTION FOR PROPROVEMENTS SHALL HAVE A RESPONSIBILITY IN CHECKING AND VERIFYING GRADE ELEVATIONS PRIOR TO INSTALLATION OF SABL IMPROVEMENTS. THE CONTRACTOR SHALL ALSO USE QUALIFIED AND COMPETENT PERSONNEL THAT CAN RECOGNIZE AND UNDERSTAND PROPER CONSTRUCTION FECHNOLIES AND PROCEDURES AND CAN RECOGNIZE INREGULARITIES OF CONFLICTS ON THE PLANS OR ON THE CONSTRUCTION SHALL MOSTLY THE CONSTRUCTION SHALL NOTIFY THE CONSTRUCTION MANAGER AND/ORE REGINEER OF ANY DISCREPANCIES, CONFLICTS OR ERRORS FOUND ON THE PLANS OR ON THE CONSTRUCTION MANAGER AND/ORE REGINEER OF ANY DISCREPANCIES, CONFLICTS OR ERRORS FOUND ON THE PLANS OR ON THE CONSTRUCTION SHALL NOTIFY THE CONSTRUCTION MANAGER AND/ORE REGINEER OF ANY DISCREPANCIES, CONFLICTS OR ERRORS FOUND ON THE PLANS OR ON THE CONSTRUCTION SHALL NOTIFY THE CONSTRUCTION MANAGER AND/ORE REGINEER OF ANY DISCREPANCIES, CONFLICTS OR ERRORS FOUND ON THE PLANS OR ON THE CONSTRUCTION SITE IMMEDIATELY.
- 4. SITE CLEARING EXCAVATION AND FILL: ALL NEW SHELTER AND TOWER LOCATIONS SHALL BE CLEARED OF ALL TOPSOIL AND VEGETATION. CONTRACTOR SHALL USE EXCAVATED MATERIAL FROM FOUNDATION EXCAVATION AND SHALL PROVIDE SPREAD AND COMPACT GRAVEL AS REQUIRED TO BRING SHELTER UP TO ELEVATIONS AS INDICATED BY THE FINAL GRADE ELEVATIONS AS SHOWN ON THE PLANS.
- S. SHELTER LOCATION: THE GENERAL CONTRACTOR SHALL VERIFY THAT THE SHELTER FOUNDATION IS LOCATED CORRECTLY WITH RESPECT TO EXISTING OR PROPOSED SHELTER(S), TOWER AND FENCE CORNERS. THE CONTRACTOR MUST NOTIFY THE ARCHITECT/ENGINEER OF ANY DISCREPANCIES PRIOR TO POURING CONCRETE.
- 6. PREFABRICATED SHELTER: THE GENERAL CONTRACTOR SHALL PROVIDE ALL LABOR. EQUIPMENT AND MATERIALS FOR THE PROPER LIFTING OF THE SHELTER FROM THE TRANSPORT TRUCK BED TO THE FINAL POSITION ON THE CONCRETE FOUNDATION. THE SHELTER SHALL BE LIFTED INTO PLACE BY USING EIGHT (8) LIFTING EYELETS PROVIDED BY THE SHELTER MANUFACTURER REQUIRES EIGHT (8) 3/4" DIAMETER, 15' LONG STEEL CABLES CONNECTED TO THE SPREADER BAR. IF THE SPREADER BAR. IF THE SPREADER BAR. IF THE SPREADER BAR. IF SHELTER, CORNER PROTECTORS WILL NOT NEED TO BE USED. THE APPROXIMATE WEIGHT OF THE SHELTER CORNER PROTECTORS WILL NOT NEED TO BE USED. THE APPROXIMATE WEIGHT OF THE SHELTER TO THE CONCRETE SLAB WITH STEEL PLATES AND ANCHOR BOLTS PROVIDED BY THE SHELTER MANUFACTURER. THE GOLPHENT IS RELITER MANUFACTURER. THE GOLPHENT SHELTER S
- 7. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION OF THE ELECTRICAL DISCONNECT, DOOR CANOPIES (WITH CAULKING), EXTERIOR LIGHT FIXTURE, GENERATOR LOOSE SHIP MATERIALS, INCLUDING FUELING, START UP AND TESTING (COORDINATE WITH OPERATIONS TO SET GENERATOR ROUTINE RUN DATE).
- 8. UTILITIES: THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE EXCAVATION AND PROPER BACK FILLING OF THERCHES REQUIRED FOR UNDERGROUND TELEPHONE AND ELECTRICAL UTILITIES. SEE SHEET D-1 AND D-2 FOR THE UTILITY TRENCH PLAN AND DETAILS. COORDINATE SERVICE DATE WITH THE RESPECTIVE UTILITY COMPANIES.
- 9. THE GENERAL CONTRACTOR SHALL INSTALL THE TOWER FOUNDATION, INCLUDING THE ANCHOR BOLTS AS FURNISHED BY THE TOWER MANUFACTURER. TOWER FABRICATION, ERECTION, AND ANTENNA INSTALLATION. SHALL BE BY OTHERS.
- 10. ACCESS DRIVEWAY: THE GENERAL CONTRACTOR SHALL CONSTRUCT THE ACCESS DRIVEWAY PER THE ALIGNMENT AND CROSS SECTION ON THE DRAWINGS. IF ANY AREA OF CONSTRUCTION REQUIRES MORE FILL OF AGGREGATE STONE THAN SHOWN ON THE DRAWINGS, THE GENERAL CONTRACTOR SHALL NOTIFY THE CONSTRUCTION MANAGER AND/OR ENGINEER FOR APPROVAL OF THE SIZE, TYPE AND QUANTITY OF STONE/FILL NECESSARY, AND SHALL NOT BE USED UNTIL APPROVAL BY THE CONSTRUCTION MANAGER/ENGINEER.
- II. ANTENNAS INSTALLATION: ALL ANTENNAS AND LINES AND ICE BRIDGE SHALL BE INSTALLED BY THE ANTENNA CONTRACTOR. DURING THIS WORK THE GENERAL CONTRACTOR SHALL BE LIMITED TO THE WORK WHICH CAN BE PERFORMED IN THE VICINITY OF THE TÜWER.
- 12. HERBICIDE: AFTER PLACEMENT AND COMPACTING OF FILL AROUND THE PREFABRICATED SHELTER AND BEFORE PLACEMENT OF LIMESTONE SURFACE, A WEED BARRIER SHALL BE PLACED AND HERBICIDE SHALL BE SPRAYED OVER ALL DISTURBED AREAS.
- 13. TRASH REMOVAL: THE GENERAL CONTRACTOR SHALL REMOVE ALL TRASH AS CREATED BY HIMSELF AND HIS SUBCONTRACTORS AND ALSO BY OTHER CONTRACTORS, INCLUDING CABLE REELS, CARBBOARD BOXES AND PACKAGNIG THE GENERAL CONTRACTOR SHALL PROVIDE A TRASH DUMPSTER (40 YARD ROLL—OFF) ON THE SITE UNTIL ALL CONSTRUCTION WORK AND EQUIPMENT INSTALLATION WORK HAS BEEN COMPLETED. ALL TRASH SHALL BE REMOVED FROM THE SITE IN A TIMELY FASHION TO A LEGAL DISPOSAL AREA. FAILURE TO PROVIDE A DUMPSTER ON SITE WILL RESULT IN A \$1,000.00 REDUCTION IN THE CONTRACT AMOUNT.
- 14. FINAL CLEAN UP: UPON COMPLETION OF ALL WORK BY THE GENERAL CONTRACTOR AND ALL OTHER CONTRACTORS ON THIS PROJECT, THE GENERAL CONTRACTOR SHALL STRIP AND CLEAN THE FLOOR OF THE SHELTER USING AN INDUSTRIAL STRIPPING MACHINE. THE FINISHED FLOOR SHALL BE CLEAN AND DUST FREE. NO SURFACE FINISHES SHALL BE APPLIED THE GENERAL CONTRACTOR IS ALSO RESPONSIBLE FOR THE REMOVAL OF ALL EXCESS MATERIALS FROM INSIDE THE SHELTER ALONG WITH SHIPMENT OF NOTED MATERIALS BACK TO THE OWNER.
- IS. GENERAL CONTRACTOR SHALL REQUEST DELIVERY OF ANTENNAS AND MISCELLANEOUS MATERIALS WHEN READY TO RECEIVE AND INVENTORY. ANY SHORTAGES MUSY BE REPORTED TO THE CONSTRUCTION MANAGER WITHIN 48 HOURS OF DELIVERY.
- 16. THE GENERAL CONTRACTOR SHALL PROVIDE AND MAINTAIN A PORTABLE TOILET ON SITE DURING THE DURATION OF THE CONSTRUCTION PROJECT.
- 17. UNDERGROUND UTILITY LOCATION: CONTACT J.U.L.I.E. (800) 892-0123 AT LEAST 4B HOURS PRIOR TO DIGGING.
- 18. THE CONTRACTOR WILL, UPON BECOMING AWARE OF SUBSURFACE OR LATENT PHYSICAL CONDITIONS DIFFERING FROM THOSE DISCLOSED BY THE ORIGINAL SOIL INVESTIGATION WORK, PROMPTLY NOTHEY THE OWNER VERBALLY TO PERMIT VERIFICATION OF THE CONDITIONS, AND IN WRITING, AS TO THE NATURE OF THE DIFFERING CONDITIONS, NO CLAIM BY THE CONTRACTOR FOR ANY CONDITIONS OFFERING FROM THOSE ANTICIPATED IN THE PLANS AND SPECIFICATIONS AND DISCLOSED BY THE STUDIES WILL BE ALLOWED UNLESS THE CONTRACTOR HAS SO NOTHED THE OWNER, VERBALLY AND IN WRITING, AS REQUIRED ABOVE, OF SUCH DIFFERING SUBSURFACE
- 19. THE GENERAL CONTRACTOR SHALL NOTIFY THE CONSTRUCTION MANAGER 48 HOURS PRIOR TO POURING CONCRETE FOR SHELTER FOUNDATION.
- 20. CONCRETE CORES (3 CYLINDERS PER TRUCK) ARE TO BE TAKEN AND TESTED BY A QUALIFIED CONCRETE TESTING COMPANY. THE GENERAL CONTRACTOR SHALL PROVIDE THREE (3) COPIES OF TESTING RESULTS TO THE CONSTRUCTION MANAGER. FAILURE TO PROVIDE WRITTEN TESTS WILL RESULT IN A \$1,000.00 DEDUCTION FROM CONTRACT. THE GENERAL CONTRACTOR WILL BE HELD RESPONSIBLE FOR ANY ABDITIONAL COSTS IN TESTING DUE TO DELAYS BY THE GENERAL CONTRACTOR OR HIS SUBCONTRACTORS.
- 21. BEFORE AND DURING CONSTRUCTION, THE CONTRACTOR SHALL PROVIDE ADEQUATE EROSION CONTROL AS NECESSARY IN THE FORM OF SILT FENCES FOR THE SITE AND BALES AROUND ANY EXISTING MANHOLES, INLETS, OR CATCHBASINS (WHEN PRESENT) SUSCEPTIBLE TO EROSION. PROSION CONTROL MEASURES SHALL BE PERIODICALLY INSPECTED TO ENSURE PROPER FUNCTION. EROSION CONTROL SHALL BE REMOVED UPON COMPLETION OF WORK BY THE CONTRACTOR.
- 22. THE CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE TO EXISTING PAVED, CONCRETE, OR GRAVEL PARKING AREAS AND DRIVES. CONTRACTORS SHALL PHOTOGRAPH AND VIDEOTAPE EXISTING PARKING AREAS AND DRIVES PRIOR TO CONSTRUCTION. ANY DAMAGE CAUSED DURING CONSTRUCTION SHALL BE REPLACED TO EXISTING OR BETTER CONDITIONS AT NO ADDITIONAL COST.
- 23. GRADE AND RE-SEED ALL AREAS DISTURBED DURING CONSTRUCTION PER EROSION AND SEDIMENT CONTROL NOTES AND DETAILS ON THIS SHEET TO MATCH EXISTING SURROUNDINGS ATTER, WORK IS COMPLETE OR AS WEATHER PERMITS WITH APPROVAL FROM THE PROPERTY

SILT FENCE PLAN



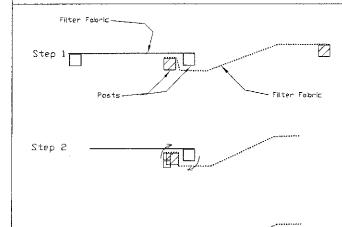
ELEVATION -Filter Fabric - Direction Of Flow -Compacted Backfill

FABRIC ANCHOR DETAIL

- Top and batton wires of mesh support shall be min. gage no.9.
 Interneolate wires of mesh supports shall be min. gage no. 11.
 Temporary sediment fence shall be installed prior to any grading with the stalled prior to any grading with the shall be installed prior to any grading with the shall be installed prior to any grading with the shall be installed prior to any grading with the shall be installed prior to any grading with the shall be min.
- in the area to be protected. They shall be maintained throughout the construction period and removed in conjunction with the final grading
- Filter fabric shall meet the requirements of material specification
 592 Geotextile Table 1 or 2, Class I with equivalent opening size of
- at least 30 for nonwoven and 50 for woven. 5. Fence post shall be either standard steel post or wood post with a minmum sectional area 3.0 sq.in.
- 6. The mesh support may be anitted if a maximum of 5^{\prime} is used for post

REFERENCE Project Designed Date		U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE	IL-66	RD DWG. NO.
Checked Date Approved Date		ILLINOIS ·	SHEET	1 DF 1 3-3-95

SILT FENCE



ATTACHING TWO SILT FENCES

Step 3

- (DTES):

 Place the end post of the second fence inside the end post of the

 first fence.

 Rotate both posts at least 180 degrees in a clockwise direction to

 create a tight seal with the fabric material.

 Drive both posts a minimum of 2 feet into the ground and bury the flap.

USDA NRCS 1L-620 NATURAL RESOURCES CONSERVATION SERVICE SMEET 2 OF 8 ILLINOIS BATE 1-29-99 CHICAGO SMSA LIMITED PARTNERSHIP, D.B.A. VERIZON WIRELESS

REAL ESTATE MANAGER: OCTAVIO HERRERA 1515 EAST WOODFIELD RD. SCHAUMBURG N. 60173 OFFICE: (847) 619-4142

CONSTRUCTION MANAGER: RON PAULY 500 TECHNOLOGY DRIVE 2ND FLOOR WELDON SERING MO 63304 OFFICE: (636) 793-9278

W. COMMERCE DR. STE. : PEORIA, ILLINOIS 61615

LAND SURVEYORS AND PROFESSIONAL ENGINEERS

PHONE: 309-692-3434 FAX: 309-692-3433

THIS DRAWING IS COPYRIGHTED AND IS THE SOLE PROPERTY OF CONSOLIDATED LAND SURVEYING, INC. REPRODUCTION OR OTHER USE OF THIS DRAWING OR THE INFORMATION CONTINEED HEREIN WITHOUT THE WRITTEN PERMISSION OF CONSOLIDATED LAND SURVEYING, INC. IS PROHBITED.

ALL RIGHTS RESERVED © 2015

PREPARED BY: HRH 5-12-15



IL 00-5777

SITE NAME:

CRYSTAL LAKE SOUTH

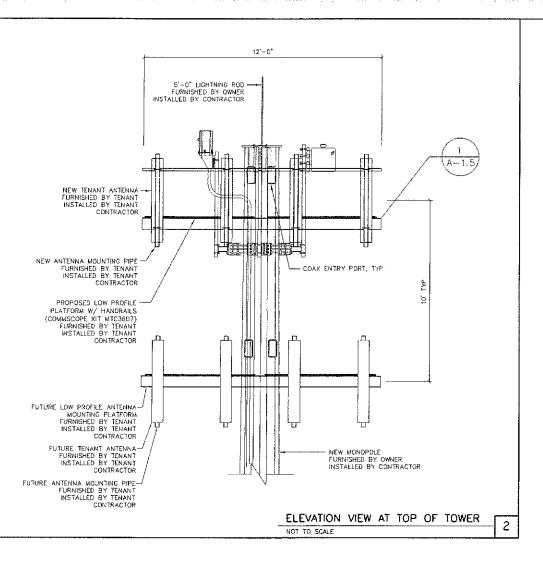
SHEET NAME

GENERAL NOTES EROSION CONTROL

SHEET NUMBER

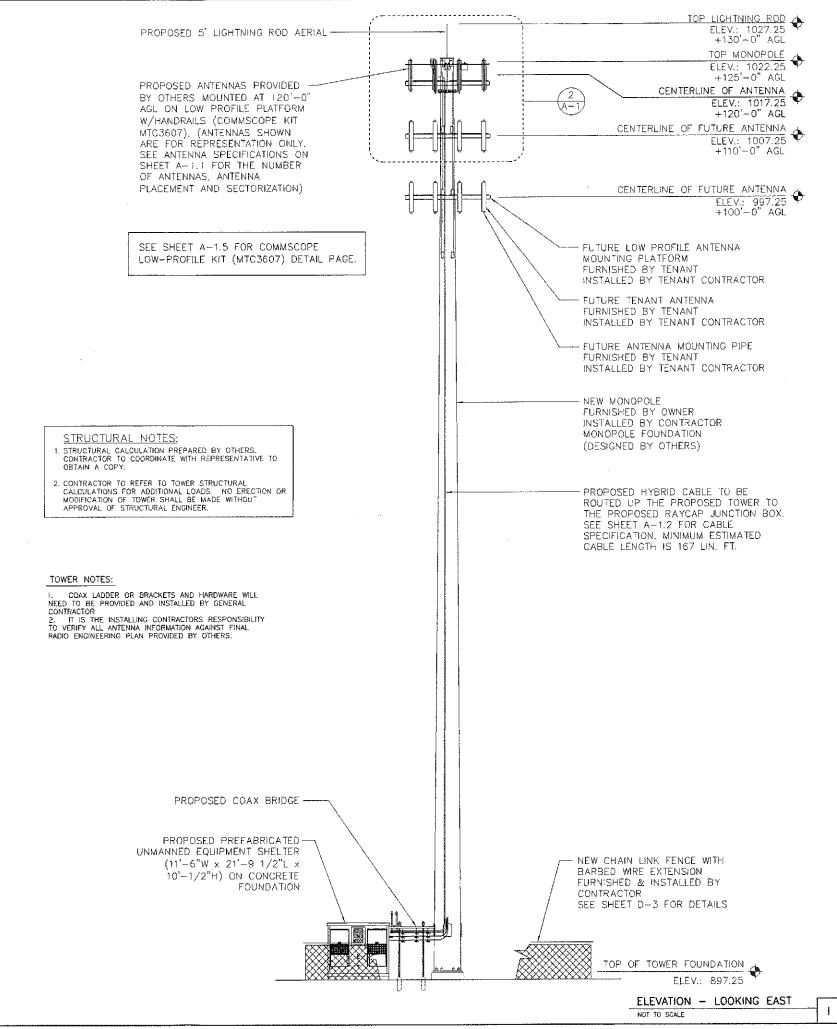
JOB NUMBER

9468-43-8-88-03



- 1. VERIFY EACH COAXIAL CABLE LENGTH, ROUTING AND ALL MOUNTING APPURTENANCES WITH OWNER PRIOR TO ORDERING.
- 2. THE MINIMUM COAXIAL CABLE LENGTH HAS BEEN ESTIMATED AT $\underline{-167}$ FEET EACH WITH A CORRESPONDING CABLE DIAMETER OF 1 5/8'. THIS CABLE LENGTH IS APPROXIMATE AND IS NOT TO BE USED FOR CONSTRUCTION. ACTUAL CABLE LENGTHS MAY VARY FROM ESTIMATED MINIMUM LENGTH AND MUST BE VERNIED.
- 3. TAG ALL MAIN CABLES (LABELED ACCORDING TO SPECS) AT FOUR (4) LOCATIONS:

 - A. I ID TAG ON THE BOTTOM 1/2" JUMPER COMING FROM THE LUCENT EQUIPMENT B. I ID TAG ON THE BOTTOM MAIN LINE INSIDE THE SHELTER NEAR THE MAIN CONNECTOR C. I ID TAG ON THE TOP MAIN LINE NEAR THE MAIN CONNECTOR
- D. I ID TAG ON THE TOP 1/2" JUMPER NEAR THE ANTENNA
- 4. CONTRACTOR TO AFFIX TAGS ON THE MAIN CABLES USING A MORE PERMANENT METHOD THAT TIE WRAPS. CONTACT CONSTRUCTION MANAGER FOR SUFFICIENT METHODS.
- 5. IN THE EVENT DIPLEXERS AND/OR OTHER EQUIPMENT IS ADDED INTO THE SYSTEM, TAGGING WILL BE CHANGED FROM NOTE 3. CONTACT CONSTRUCTION MANAGER FOR SUFFICIENT METHODS.
- 6. EACH COAX SHALL BE SUPPORTED COLUMN GRIP (CHINESE FINGER GRIP) HUNG FROM A J-HOOK AT TOP OF TOWER, (10' ABOVE FOR LATTICE TOWER).
- 7. EACH COAX SHALL BE GROUNDED AT THREE (3) LOCATIONS:
- A. TOWER PLATFORM OR V-FRAME
- B. TOWER BASE
- C. OUTSIDE EQUIPMENT SHELTER AT THE WAVEGUIDE ENTRY PORT
- COAXIAL CABLES TO BE SUPPORTED EVERY 3'-0" ON PLATFORM OR V-FRAME WITH STAINLESS
- 9. COAXIAL CABLES TO BE SUPPORTED EVERY 18" WITH STAINLESS STEEL HANGERS.
- 10. ANTENNA CONTRACTOR RESPONSIBLE FOR FABRICATION ENCLOSURE JUMPERS.
- 11. COAX TYPE WILL 8E AVA7-50 AIR FOAM DIELECTRIC CABLE FROM ANDREW TO REPLACE THE OLDER LDF7-50 CABLE.
- 12. THE CONTRACTOR SHALL USE PPC CONNECTORS ONLY, NO ANDREW CONNECTORS SHALL BE USED



CHICAGO SMSA LIMITED PARTNERSHIP, D.B.A. VERIZON WIRELESS

REAL ESTATE MANAGER: OCTAVIO HERRERA 1515 EAST WOODFIELD RD. SCHAUMBURG, IL 60173

CONSTRUCTION MANAGER; RON PAULY 500 TECHNOLOGY DRIVE 2ND_FLOOR WELDON SPRING, MO 63304 OFFICE: (636) 793-9278

OFFICE: (847) 619-4142

CLS CONSOLIDATED LAND SURVEYING

1300 W. COMMERCE DR. STE. 700 PEORIA, ILLINOIS 61615

LAND SURVEYORS
AND PROFESSIONAL ENGINEERS

PHONE: 309-692-3434 FAX: 309-692-3433

THIS DRAWING IS COPYRIGHTED AND IS THE SOLIL PROPIETY OF CONSOLIDATED LAND SUPERIOR, INC., REPRODUCTION OR OTHER USE OF THIS DRAWING OR THE INFORMATION CONTAINED HERBINGHOUT THE WRITHEN PERMISSION OF CONSOLIDATED LAND SURVEYING, INC. IS PROMISITED LAND SURVEYING, INC.

ALL RIGHTS RESERVED © 2015

PREPARED BY: HRH 5-12-15



IL 00-5777

SITE NAME:

CRYSTAL LAKE SOUTH

SHEET NAME

TOWER ELEVATION AND NOTES

SHEET NUMBER

JOB NUMBER

9468-43-8-88-03

LEGEND

- LEAD 6 FG FENCE GROUND: E.C. TO PROVIDE AND INSTALL #2 AWG BARE SOLID TINNED COPPER GROUND WIRE AT EACH FENCE GROWN FROST. GROUND WIRE TO BE BE WINN THROUGH FENCE FABRIC AND GAWKEDED THREE PLACES CADMICIDS REQUIRED AT 10P RAIL, BOTTOM OF CORNER POST, AND GROUND RING.
 - PLACES CADWELDS REQUIRED AT TOP RAIL, BOTTOM OF CORNER POST, AND GROUND RING.

 TO TOWER GROUND: E.C. SHALL PROVIDE AND INSTALL (1) 3/2 AWG BARE SOLID TINNED COPPER GROUND WIRE FROM THE TOWER BASE TO GROUNDING RING. BOTH CONNECTIONS ARE CADWELD.
 - CCC TOWER COAX GROUND: E.C. SHALL PROVIDE AND INSTALL (2) #2 AWG BARE SOLID TINNED COPPER GROUND WIRES FROM TOWER COAX GROUND BAR (TOB) TO THE GROUNDING RING, BOTH CONNECTIONS ARE CADWELD.
 - IBCG ICE BRIDGE CHANNEL GROUND: E.C. SHALL PROVIDE AND INSTALL (1) \$2 AWG BARE SOUD TRINED COPPER GROUND WIRE FROM ICE BRIDGE CHANNEL TO GROUNDING RING. BOTH CONNECTIONS ARE CADWELD.
 - IBSG ICE BRIDGE SUPPORT CROUND: E.C. SHALL PROVIDE AND INSTALL (1) #2 BARE SOLID TINING COPPER GROUND WIRE FROM ICE BRIDGE SUPPORT COLUMN TO GROUNDHMG RING. BOTH CONNECTIONS ARE CADWELD.
 - TVSS TRANSIENT VOLTAGE SURCE SUPPRESSER: E.C. TO INSTALL PER TOWER MANUFACTURERS REQUIREMENTS.
 - TVSG TRANSIENT VOLTAGE SURGE SUPPRESSER GROUND: E.C. SHALL PROVIDE AND INSTALL (1) #2 BARE SOLID THINKED GROUND WIRE FROM PROVIDED SURGE SUPPRESSER TO GROUNDING RING. CONNECTION TO SURGE SUPPRESSER IS MECHANICAL. CONNECTION TO GROUNDING RING IS CADWELD.
 - TOWER CDAX GROUND BAR: E.C. TO PROVIDE AND INSTALL (2) 20"x4"x1/4" COPPER GROUND BARS ON THE TOWER. ONE TO BE LOCATED ANTIENNA MOUNT ELEVALIDE (ATTACHED TO TOWER STEEL), THE OTHER AT THE BASE OF TOWER ADJACEDAT TO TICE BRIDGE (ISOLATED FROM TOWER STEEL).
 - ACG AIR CONDITIONER GROUND: E.C. TO PROVIDE AND INSTALL (1) \$2 ANG BARE SOLID TINNED COPPER GROUND WIRE FROM CABINET OF HVAC UNIT TO GROUNDING RING. CONNECTION TO GROUNDING RING IS CADWELD (TYPICAL OF 2).
 - TSG TELCO SERVICE GROUND: E.C. TO PROVIDE AND INSTALL (1) #2 AWG BARE SOLID THINED COPPER GROUND FROM TELCO GROUND BAR IN 1 1/2" PVC SLEEVE TO (1) B"-0"x5/8" & CLAD STEEL GROUND ROD (TOP AT 42" BELOW FINISH GRADE). SEAL SHELTER PENETRATION WITH CLEAR SILLICONE SEALANT.
 - ESG ELECTRICAL SERVICE GROUND: E.C. SHALL PROVIDE AND INSTALL \$2 AWG BARE SOLID TINNED COPPER GROUND FROM MAIN A70 SERVICE DISCONNECT SWITCH NEUTRAL BUS BAR TO ONE SEPARATE 6"-0"15/8"6. COPPER CLAD STEEL GROUND ROD TOP AT 42" BELOW THISH GRADE). CONNECTION TO BUS BAR TO BE MECHANICAL, CONNECTION TO GROUND ROD TO BE CADWELD.
 - GNG GENERATOR HOOD GROUND: E.C. TO PROVIDE AND INSTALL (1) \$2 AWG BARE SOLID TINNED COPPER GROUND WIRE FROM GENERATOR INTAKE AND EXHAUST HOOD TO GROUNDING RING. CONNECTION TO CABINET IS MECHANICAL. CONNECTION TO GROUNDING RING IS CADWELD (NOT NEEDED IF HOOD IS FIBERGLASS).
 - MECHANICAL CONNECTION TO GROUNDING RING IS CADWELD (NOT NEEDED IF HOOD IS FIBERGLASS).

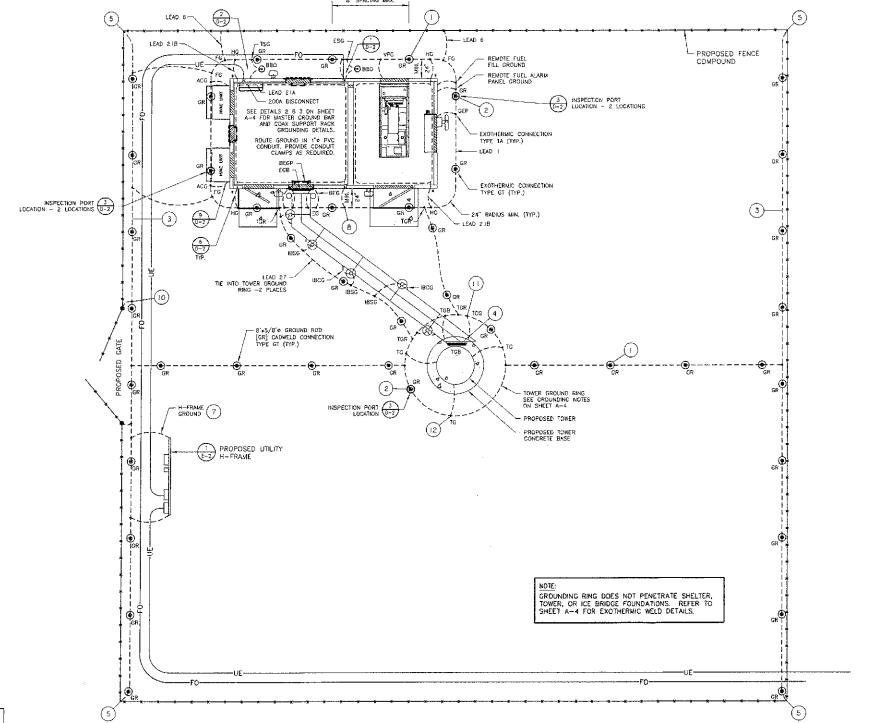
 HG HALD GROUND: E.C. TO INSTALL 22 AWG BARE SOLID TINNED COPPER GROUND WIRE THIND USE THIND USE PROVIDED CONNECTION TO GROUNDING RING SELTER PENETRATION TO GROUNDING RING IS CADWELD. SEAL BOTH SIDES OF SHELTER PENETRATION WITH CLEAR SILICONE SEALANT (TYPICAL OF 4).
 - BOOD TO BURIED OBJECTS: E.C. TO PROVIDE AND INSTALL #2 BARE SOLID TINNED COPPER GROUND WIRE FROM GROUND ROD TO GROUNDING RING AT TSG AND ESC. BOTH CONNECTIONS ARE CADWELD.
 - BESP BUILDING ENTRY GROUND BAR: E.C. TO PROVIDE AND INSTALL 20"x16"x1/4" COPPER GROUND PLATE ON INTERIOR OF SIDE WALL BELOW COAR BUILDING ENTRY LOCATION.
 - BEG BUILDING ENTRY GROUND: E.C. TO PROVIDE AND INSTALL (2) #2 AWG BARE SOLID TINNED COPPER WIRE FROM BEGS TO GROUNDING RING. E.C. TO PROVIDE OPENING IN SIDE WALL SIMILAR TO DETAIL 9/D-2 AND SEAL BOTH ENDS WEATHER TIOHT. BOTH CONNECTIONS ARE CADWELD.
 - EGB EXTERIOR GROUND BAR: E.C. TO PROVIDE AND INSTALL 20"x4"x1/4" COPPER GROUND BAR ON EXTERIOR OF SIDE WALL BELOW COAX BUILDING ENTRY LOCATION.
 - EG EXTERIOR GROUND. E.C. TO PROVIDE AND INSTALL (2) \$2 AWG BARE SOLID TINNED COPPER WIRES FROM EGB TO GROUNDING RING. BOTH CONNECTIONS ARE CADWELD.
 - CEG COAX ENTRY GROUND: E.C. TO PROVIDE AND INSTALL (1) #6 AWG BARE SOLID TINNED COPPER WARE FROM COAX BUILDING ENTRY TO EGB. CONNECTION AT COAX PLATE CADWELD, CONNECTION AT EGB 2 HOLE LUG MCCHANICAL.
- PBG POWER BOARD GROUND: E.C. TO PROVIDE AND INSTALL INSULATED #2 AWG STRANDED COPPER WIRE FROM EXTERIOR GROUND RING WITH SUFFICIENT LENGTH COILED INSIDE TO REACH TOP OF DELTA POWER BOARD. CONNECTION AT GROUND RING TO BE CADWELD.
- LEAD 3 GR 8'-0"x5/8" & COPPER CLAD STEEL GROUND ROD DRIVEN VERTICAL TO 42" BELOW GRADE (OR FROST LINE WHICHEVER IS GREATER). SPACING OF THE GROUND RODS SHALL BE 8" MAXIMUM, ALL CONNECTIONS TO BE CADWELD.
 - * EXISTING SHELTER PENETRATION LOCATION REFER TO DETAIL 6/D-2.
- LEAD 5 MGB MASTER GROUND BAR: E.C. TO PROVIDE AND INSTALL (2) #2 AWG BARE SOLID TINNED COPPER WIRES FROM MGB TO GROUNDING RING. CONNECTION TO GROUNDING RING CADWELDED. SEAL BOTH SIDES OF SHELTER PENETRATION WITH CLEAR SILICONE SEALANT. (TYPICAL OF 2)
 - GEP GENERATOR EXHAUST PIPE: E.C. TO PROVIDE AND INSTALL (1) #2 AWG BARE SOLID TINNED COPPER GROUND WIRE FROM GENERATOR EXHAUST PIPE TO GROUNDING RING. CONNECTION TO EXHAUST PIPE AND GROUNDING RING SHOULD BE CADMEDID.
 - VPC VENT PIPE GROUND: E.C. TO PROVIDE AND INSTALL (1) #2 AWG BARE SOLID TINNED COPPER WIRES FROM VENT PIPE TO GROUNDING RING. CONNECTION TO VENT PIPE AND GROUNDING RING SHOULD BE CADWELDED.
- LEAD 27 TGR TOWER GROUND RING: E.C. TO PROVIDE AND INSTALL A MINIMUM OF (2) #2 AWG BARE SOLID TINNED COPPER WIRES FROM LEAD 1 TO THE EXTERNAL RADIO TOWER GROUND RING.
- EAO 21A IHR INTERIOR HALO RING: THIS IS THE INTERIOR HALO RING THE E.C. IS TO PROVIDE AND INSTALL #2 AWG INSULATED COPPER WIRE AROUND THE INTERIOR OF THE EQUIPMENT SHELTER.

BALLOON REFERENCE NOTES

- 1 5/8"DIA XB" COPPER CLAD GROUND ROD BURIED 36" BELDW GRADE (MIN.)
- (2) GROUND ROD ACCESS WELL (MIN. OF 4 EACH PER COMPOUND)
- (3) (2 SOLID, TINNED, BARE COPPER WIRE GROUND RING (CONTINUOUS STRAND)
- 4 1/4"x4"x20" TINNED COPPER GROUND BAR. 2 TYP, AT BASE AND TOP OF TOWER. MOUNT DIRECT TO TOWER, DO NOT ISOLATE.
- (5) #2 SOLID, TWINED, BARE COPPER WIRE GROUND LEAD TO FENCE CORNER POST.
- (6) NOT USED
- 7 #2 SOLID. TINNED, BARE COPPER WIRE GROUND LEAD TO UTILITY H-FRAME SUPPORT POST
- 8 SERVICE ENTRANCE GROUND TO DEDICATED GROUND ROD
- §2 INSULATED, STRANDED COPPER GROUND LEAD ROUTED IN CONDUIT TO 200A LOAD CENTER.
- (10) #2 INSULATED, STRANDED COPPER BOND STRAP FROM GATE FRAME TO GATE POST. (TYP EACH GATE)
- (1) #2 SOLID, IMNED, BARE COPPER GROUND LEAD FROM GROUND BAR AT TOWER BASE TO GROUND RING, ROUTE IN 3/4" FLEX CONDUIT AND WEATHERPROOF OPEN END. (2 TYPICAL)
- (12) #2 SOLID, TINNED, BARE COPPER GROUND LEAD FROM BASE TO GROUND RING. (2 TYPICAL, 180' SEPARATION)
- (3) TOWER LIGHT CONTROLLER (GROUND PER MANUFACTURES RECOMMENDATIONS) (IF REQUIRED)



THE INTENT OF THIS DRAWING IS FOR GROUNDING SCHEMATICS ONLY, SEE SHEETS C-1 AND C-2 FOR SITE PLAN LAYOUT AND DIMENSIONS.



CHICAGO SMSA LIMITED PARTNERSHIP, D.B.A. VERIZON WIRELESS

REAL ESTATE MANAGER: OCTAVIO HERRERA 1515 EAST WOODFIELD RD. SCHAUMBURG, IL 60173 OFFICE: (847) 619-4142

CONSTRUCTION MANAGER: RON PAULY 500 TECHNOLOGY DRIVE 2ND FLOOR WELDON SPRING, MO 63304 OFFICE: (636) 793-9278

CLS

1300 W. COMMERCE DR. STE. 700 PEORIA, ILLINOIS 61615

LAND SURVEYORS AND PROFESSIONAL ENGINEERS

PHONE: 309-692-3434 FAX: 309-692-3433

THIS DRAWING IS COPYRIGHTED AND IS THE SOLE PROPERTY OF CONSOLIDATE LAND SURVEYING, MO. REPRODUCTION OR OTHER USE OF THIS DRAWING OR THE INFORMATION CONTAINED HEREIN WITHOUT THE WETTEN PERMISSION OF CONSOLIDATED LAND SURVEYING, INC. IS PROHIBITED.

ALL RIGHTS RESERVED © 2015

	PREPARED BY: HRH				5-12~15		
ĺ			T				
	L		4				
			-				
			Т				



IL 00-5777

SITE NAME:

CRYSTAL LAKE SOUTH

SHEET NAME

SHELTER AND TOWER GROUNDING SCHEMATIC WITH LEGEND

SHEET NUMBER

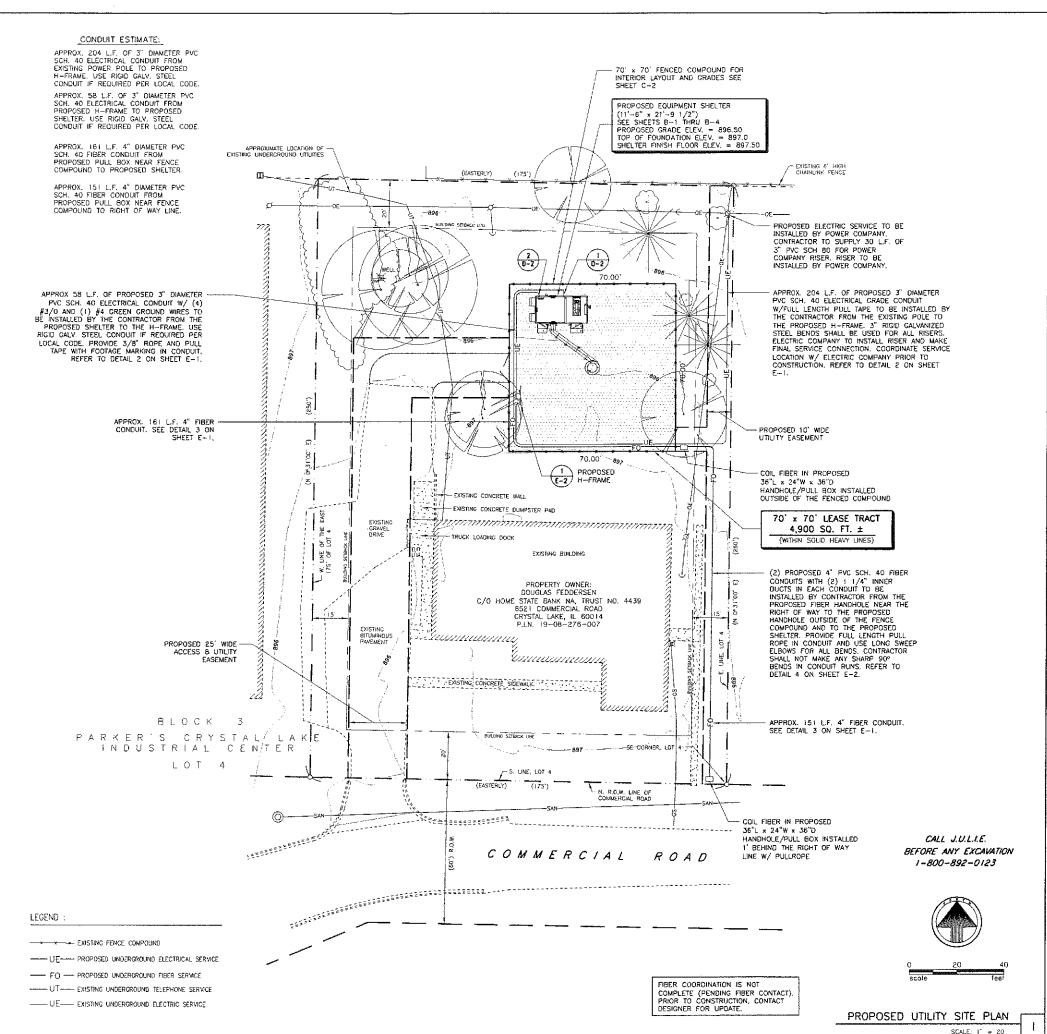


JOB NUMBER

9468-43-8-8B-03

UTILITY GENERAL NOTES

- UNLESS OTHERWISE NOTED, ALL WORK ON SHEETS A-2 AND E-1 SHALL BE PERFORMED BY THE E.C.
- THE E.C. MUST BE LICENSED TO PERFORM WORK IN THIS COUNTY, AND SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY ELECTRICAL PERMITS FROM LOCAL BUILDING DEPARTMENTS.
- 3. UNDERGROUND CONDUIT SHALL BE SCH. 40 PYC PLASTIC DUCT WITH ALL BENDS TO BE MINIMUM 18" RADIUS 900 SWEEP UNLESS NOTED OTHERWISE
- 4. ABOVE GRADE RISER CONDUIT TO BE GALVANIZED STEEL WITH MATCHING FITTINGS.
- 5. METERING PEDESTAL TO BE CONSTRUCTED OF GALVANIZED HARDWARE.
- E.C. SHALL CONTACT TELEPHONE AND ELECTRIC COMPANIES AT LEAST TWENTY (20) WORKING DAYS PRIOR TO NEEDING INSTALLATION OF ELECTRIC AND TELCO SERVICE. CONTACT NAMES AND PHONE NUMBERS ARE LISTED ON TITLE SHEET T-1.
- 7. ALL 2/C #22 SHLD CABLE SHALL BE BELDEN #8450 OR EQUAL.
- 8. ALL WIRE SHALL BE (600V THHN) U.N.O.
- SEAL ALL PENETRATIONS.
- 10. ALL WORK IS TO BE IN ACCORDANCE WITH NFPA, NEME, NEC, & ALL LOCAL CODES.
- REPAIR AND/OR REPLACE ANY DISTURBED AGGREGATE TO MATCH EXISTING SURROUNDINGS AND GRADE AFTER SUB—GRADE GROUNDING AND UTILITY WORK IS COMPLETE.
- CAUTION NEEDS TO BE TAKEN WHEN EXCAVATING FOR NEW SHELTER FOUNDATION SO NOT TO DAMAGE ANY EXISTING UNDERGROUND GROUNDING SYSTEM OR UTILITIES.
- 13. ANY EXCAVATION FOR FOUNDATIONS AND TRENCHING FOR UTILITIES WITHIN COMPOUND SHOULD BE DONE BY HAND, OR AS APPROVED BY THE CONSTRUCTION MANAGER.
- 14. NOT ALL NOTES OR DETAILS MAY BE APPLICABLE TO THE CONSTRUCTION OF THIS SITE DUE TO EXISTING SITE CONDITIONS.
- E.C. TO ADJUST LAYOUT TO SITE CONDITIONS WITH APPROVAL FROM CONSTRUCTION MANAGER.
- 16. ELECTRICAL SERVICE WILL BE 120/240V, 1PH, 3W.



CHICAGO SMSA LIMITED PARTNERSHIP, D.B.A. VERIZON WIRELESS

> REAL ESTATE MANAGER: OCTAVIO HERRERA 1515 EAST WOODFIELD RD. SCHAUMBURG, IL 60173 OFFICE: (847) 619-4142

CONSTRUCTION MANAGER: RON PAULY 500 TECHNOLOGY DRIVE 2ND FLOOR WELDON SPRING, MO 63304 OFFICE: (636) 793-9278

CLS

1300 W. COMMERCE DR. STE. 700 PEORIA, ILLINOIS 61615

LAND SURVEYORS AND PROFESSIONAL ENGINEERS

PHONE: 309-692-3434 FAX: 309-692-3433 PROFESSIONAL DESIGN TIRE NO. 181-002750

THIS DRAWING IS COPPRIGHTED AND IS THE SCLE PROPERTY OF CONSOLIDATED LAND SURVEYING, INC. REPRODUCTION OR OTHER USE OF THIS DRAWING OR THE INFORMATION CONTARED HEREIN MITHOUT THE WITTEN PERMISSION OF CONSOLIDATED LAND SURVEYING, INC. IS PROMBITED.

ALL RIGHTS RESERVED

PREPARED BY: HRH 5-12-15



SITE NAME:

IL 00-5777

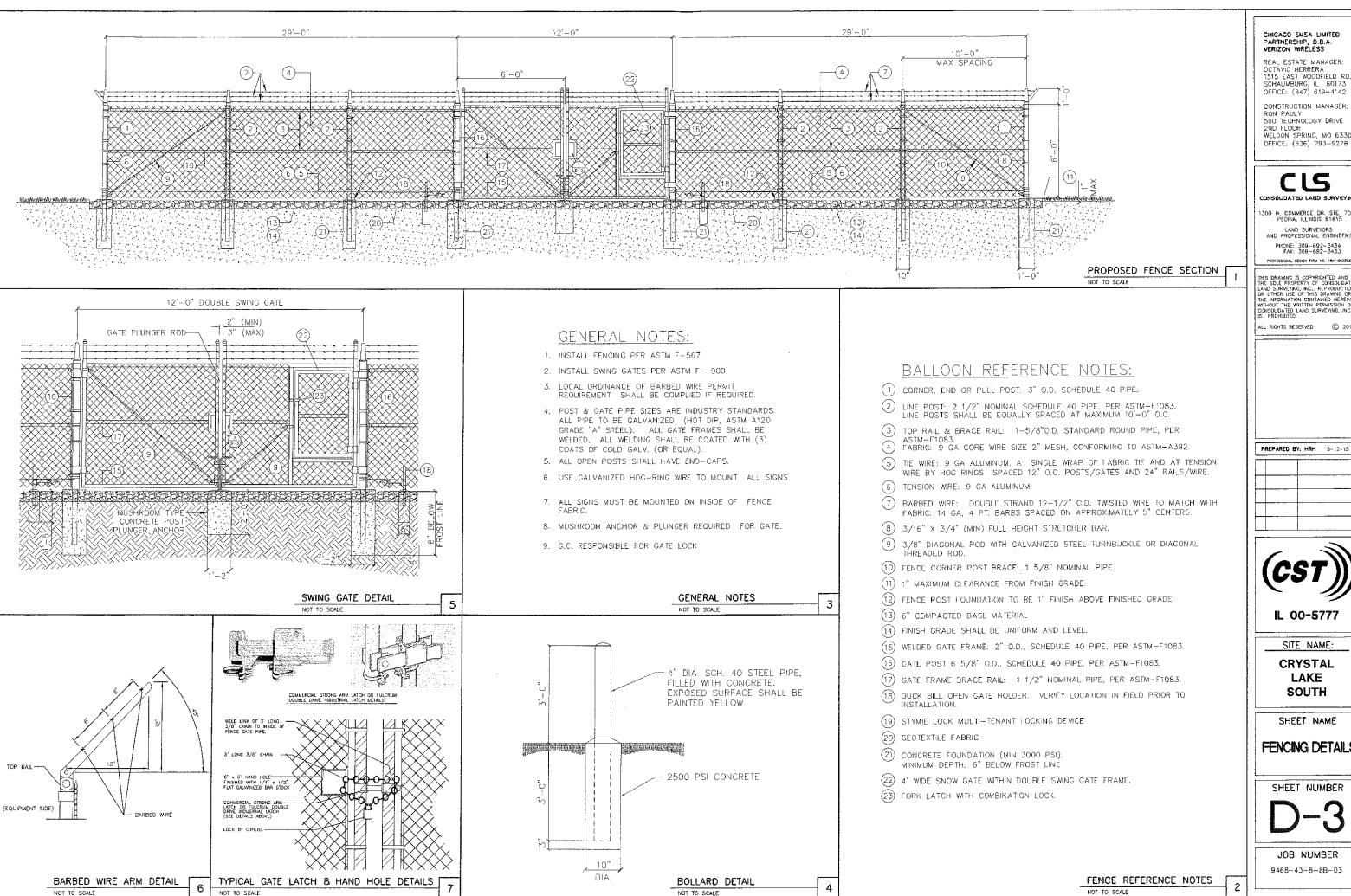
CRYSTAL LAKE SOUTH

SHEET NAME UTILITY PLAN, DETAILS AND NOTES

SHEET NUMBER

E-3

JOB NUMBER 9468-43-8-88-03



CHICAGO SMSA LIMITED PARTNERSHIP, D.B.A. VERIZON WIRELESS

REAL ESTATE MANAGER: OCTAVIO HERRERA 1515 EAST WOODFIELD RD. SCHAUMBURG, IL 60173 OFFICE: (847) 619-4142

CONSTRUCTION MANAGER; RON PAULY 500 TECHNOLOGY DRIVE 2ND FLOCR WELDON SPRING, MO 63304

CONSOLIDATED LAND SURVEYIN

1300 W. COMMERCE DR. STE. 700 PEORIA, JULINOIS 61615

LAND SURVEYORS AND PROFESSIONAL ENGINEERS PHONE: 309-692-3434 FAX: 309-692-3433

THIS DRAWING IS COPYRIGHTED AND IS THE SOLE PROPERTY OF CONSOLIDATE LAND SURVEYING, INC., REPRODUCTION OR OTHER USE OF THIS DRAWING OR THE INFORMATION CONTAINED HEREIN WITHOUT THE WRITTEN PERMISSION OF CONSOLIDATED LAND SURVEYING, INC. IS PROHIBITED.

ALL RIGHTS RESERVED (C) 2015

PREPARED BY: HRH 5-12-15



IL 00-5777

SITE NAME:

CRYSTAL LAKE SOUTH

SHEET NAME

FENCING DETAILS

SHEET NUMBER

JOB NUMBER 9468-43-8-8B-03