PLANNING COMMISSION AGENDA CITY OF PRAIRIE VILLAGE TUESDAY, MAY 6, 2014 7700 MISSION ROAD 7:00 P.M.

I.	ROLL CALL		
II.	INTRODUCTION OF NEW COMMISSION MEMBERS		
III.	APPROVAL OF PC MINUTES - APRIL 1, 2014		
IV.	ELECTION OF OFFICERS		
V.	PUBLIC HEA PC2014-03		
VI.	NON-PUBLIC PC2014-110	CHEARINGS Temporary Use Permit for a Summer Camp 4801 West 79th Street Zoning: R-1a Applicant: Children's Mercy South	
	PC2014-111	Site Plan Approval for Wireless Communication Antenna 7700 Mission Road Zoning: R-1a Applicant: Selective Site Consultants for Sprint	
	PC2014-112	Site Plan Approval for Wireless Communication Antenna 7231 Mission Road Zoning: R-1a Applicant: Selective Site Consultants for Sprint	
	PC2014-113	Site Plan Approval for Wireless Communication Antenna 9011 Roe Avenue Zoning: R-1a Applicant: Global Signal Acquisition for Sprint	
	PC2013-103	Revised Sign Standards - First National Bank Building 4200 West 83rd Street Zoning: C-2 Applicant: Scott Schultz, Luminous Neon	

VIII. ADJOURNMENT

Plans available at City Hall if applicable
If you cannot be present, comments can be made by e-mail to
Cityclerk@Pvkansas.com

*Any Commission members having a conflict of interest, shall acknowledge that conflict prior to the hearing of an application, shall not participate in the hearing or discussion, shall not vote on the issue and shall vacate their position at the table until the conclusion of the hearing.

PLANNING COMMISSION MINUTES April 1, 2014

ROLL CALL

The Planning Commission of the City of Prairie Village met in regular session on Tuesday, April 1, 2014, in the Municipal Building Council Chambers at 7700 Mission Road. Chairman Ken Vaughn called the meeting to order at 7:00 p.m. with the following members present: Nancy Wallerstein, Bob Lindeblad, Gregory Wolf; Randy Kronblad and Nancy Vennard.

The following persons were present in their advisory capacity to the Planning Commission: Ron Williamson, City Planning Consultant; Kate Gunja, Assistant City Administrator; Jim Brown, Building Official and Joyce Hagen Mundy, City Clerk/Planning Commission Secretary.

APPROVAL OF MINUTES

Nancy Vennard moved the approval of the Planning Commission minutes of March 4, 2014. The motion was seconded by Nancy Wallerstein and passed unanimously.

PUBLIC HEARINGS

There were no public hearings.

NON PUBLIC HEARINGS

PC2014-02 Request for Special Use Permit for Private School 7457 Cherokee

Brian Gordon, Executive Director of Global Montessori Academy, reported that the requested traffic study was completed. He has been in communication with Mr. Williamson and is in agreement with the staff recommendation.

Mr. Williamson noted there are several schools in the area and traffic backs up on southbound Belinder Avenue. The applicant has prepared a Traffic Impact Study which concludes that trips generated by GMA will not significantly impact the intersection.

The trip generation for private schools was taken from the ITE Manual. Private schools generate a high volume of traffic and because this school is relocating from the Plaza, it may generate more trips than a typical private school. Therefore, Staff recommends that the Site Plan be approved with a condition that the operation will be evaluated during the school year and adjustments may be required to accommodate the traffic. This could include the dedication of right-of-way on Belinder Avenue to construct a turn lane. Also, GMA needs to work with the Police Department to prepare a traffic flow plan that will be communicated to the parents.

The applicant proposed to install moveable barriers on the east and south boundaries of the elementary school play area. It is important that the barriers remain moveable in the event traffic needs to use Cherokee Drive for access.

The applicant submitted a Site Plan for approval by the Planning Commission. Since the proposed use is within an existing building, a detailed Site Plan was not required; however, the applicant needs to submit more detail for the proposed outdoor classroom area on the east side of the building.

Chairman Ken Vaughn led the Commission in the following consideration of the Site Plan criteria:

A. The site is capable of accommodating the buildings, parking areas, and drives with the appropriate open space and landscape.

The proposed Montessori School will be within an existing structure and parking and access will be accommodated within the existing north parking lot.

- B. Utilities are available with adequate capacity to serve the proposed development. This site is currently served by utilities and they should be adequate to serve the proposed use.
- C. The plan provides for adequate management of stormwater runoff.

 No changes in the existing site are proposed and therefore stormwater runoff will not be affected.
- D. The plan provides for safe ingress/egress and internal traffic circulation.

The existing parking area on the north side will provide adequate ingress/egress for the proposed use. Currently the parents park and walk children in, at drop-off, and out, at pick-up. GMA plans to continue this procedure. Belinder Avenue currently backs up at 75th Street in the morning rush hour and this use will further aggravate that problem. A Traffic Impact Study has been prepared to address this issue.

E. The plan is consistent with good land planning and site engineering design principles.

The site is consistent with good land planning and design.

F. An appropriate degree of compatibility will prevail between the architectural quality of the proposed building and the surrounding neighborhood.

It is not proposed to change the external appearance of the building except for some minor items; however, some site changes are proposed.

G. The plan represents an overall development pattern that is consistent with Village Vision and other adopted planning policies.

One of the primary objectives of Village Vision is to encourage reinvestment in the community to maintain the quality of life in Prairie Village. The proposed Montessori School is an amenity that sets Prairie Village apart from other competing communities in the metropolitan area. This application for approval of the Montessori School is

consistent with Village Vision in encouraging reinvestment; providing multiple uses in existing buildings and making better use of underutilized facilities.

Ken Vaughn noted the outdoor lighting condition. Mr. Williamson stated as there are no exterior changes being made to the existing building, this will address any existing lighting that may not be in compliance. The fire and building codes for this different use of the building are being addressed by the Fire Department and the Building Official. Mr. Vaughn stated this is a wonderful reuse of this building.

Nancy Wallerstein noted the close proximity of the operating hours for the proposed school and Belinder Elementary School and expressed some concern with traffic congestion. Mr. Gordon responded that the school caters to working families and that approximately half of its students arrive early and stay until after 4 o'clock.

Ron Williamson replied the main problem with stack generally occurs in the morning hours and if this occurs the school will need to work with the Police Department to address it.

Gregory Wolf moved the Planning Commission approve the Site Plan for the Global Montessori School at 7457 Cherokee Drive subject to the following conditions:

- 1. That any outdoor lighting installed shall be in accordance with the lighting ordinance.
- 2. That the applicant meet all requirements of the building and fire codes.
- 3. That the applicant submit a more detailed Site Plan for the proposed outdoor classroom to be reviewed and approved by Staff.
- 4. That any proposed modifications to the exterior of the building, including doors, etc., be subject to the review and approval of Staff for architectural compatibility.
- 5. That the conclusions and recommendations of the Traffic Impact Study be accepted at this time which states that the proposed school will not significantly impact the intersections. However, traffic will be monitored by the Police and Public Works Departments during the school year and if traffic does become an issue, the applicant will work with City Staff to implement a solution. One possibility may be the dedication of additional right-of-way for Belinder Avenue to construct a turn lane at the 75th Street intersection.
- 6. That the barriers for the elementary school play area be moveable in case access is needed from Cherokee Drive.
- 7. That the applicant work with the Police Department to prepare a traffic flow plan to be communicated to the people that will be dropping off and picking up students.

The motion was seconded by Randy Kronblad and passed unanimously.

PC2014-109 Site Plan Approval for Exterior Seating Einstein Brothers Bagels 6970 Mission Road

Kylie Stock with Lega C Properties addressed the Commission on behalf of Einstein Bagel who is locating in the space previously occupied by Dolce Bakery and Starbucks,

and proposes to have an outdoor seating area. Einstein Bagel has reviewed the staff recommendation and is in agreement with the conditions of approval.

Ron Williamson stated the proposed outdoor seating area includes three four-top tables under the canopy and one four-top table on each end of the canopy. This is approximately 300 sq. ft. The distance between the columns and the curb is 60". In order to meet ADA accessibility through this area, an unobstructed walkway of 48" must be maintained and the distance between the face of the wall and the columns is 12'. Vehicle overhang could be 24" which reduces the accessible walkway to 36". The applicant proposes to place the tables closer to the building and maintain a 36" wide walkway adjacent to the columns. This would increase the outdoor space in the Center from 7,780 sq. ft. to 8,080 sq. ft. and would increase the Center sq. ft. from 301,886 to 302,186.

The square footage of Village Center has been agreed upon between the City and the owners. The off-street parking requirement for mixed office/commercial centers over 300,000 square feet is 3.5 spaces per 1,000 square feet. The addition of 300 sq. ft. for the outdoor seating area will increase the required parking from 1,057 spaces to 1,058 spaces. The Center provides 1,160 spaces and has an excess of 102 spaces. Based on the agreed upon parking calculation method, the applicant will need to submit a floor plan indicating the amount of area designated as storage and the Center will need to update the square footage chart, indicating the change in storage area and patio area. The Handicap Parking sign will need to be relocated because it is within the 36" walkway. It could easily be moved to the brick column. Also, the two existing planters will need to be located where they do not encroach into the 36" walkway on either side of the column.

Chairman Ken Vaughn led the Commission in review of the follow criteria:

A. The site is capable of accommodating the building, parking areas and drives with appropriate open space and landscape.

The site is capable of accommodating the seating area provided an ADA accessible walkway is available. The walkway between the curb and the building columns is only 60" and with vehicle overhang it would be reduced to 36". The 48" width allows for a wheelchair and a pedestrian to pass. The applicant is proposing a minimum 36" walkway width on the north side of the columns and will meet the requirement.

- B. Utilities are available with adequate capacity to serve the proposed development. Utilities are currently in place serving the Prairie Village Center and are adequate to serve this minor expansion for outdoor seating.
- C. The plan provides for adequate management of stormwater runoff. There will be no increase in impervious surface so stormwater is not an issue.

- D. The plan provides for safe and easy ingress, egress, and internal traffic circulation. The proposed site will utilize existing driveways and the general circulation of the Center will not be changed. Adequate pedestrian accessibility will need to be maintained between the columns and the parking lot, and the columns and the building façade.
- E. The plan is consistent with good land planning and good site engineering design principles.

The addition of outdoor seating will help create a more vibrant atmosphere for the Center and is consistent with good land planning practices. The primary site design issue is the need to maintain a minimum 36" walkway for ADA accessibility on both sides of the columns.

F. An appropriate degree of compatibility will prevail between the architectural quality of the proposed building and the surrounding neighborhood.

No changes are proposed to the building façade. The brick columns and other features will remain as they are now.

G. The plan represents an overall development pattern that is consistent with the comprehensive plan and other adopted planning policies.

One of the principles of the Village Vision was to focus on redevelopment and reinvestment in the community. These issues have become primary goals for the City and this project represents a step in that direction. This is the opportunity to enhance and intensify the use of the building that will generate additional revenues for the City.

Bob Lindeblad moved the Planning Commission approve the proposed site plan for Einstein Bagel's outdoor seating area, 6970 Mission Road, subject to the following conditions:

- 1. That all lighting used to illuminate the outdoor area be installed in such a way as to not create any glare off the site and be in conjunction with the outdoor lighting regulations.
- 2. That a minimum 36" wide accessible walkway be maintained on both sides of the columns.
- 3. That the Handicap Parking sign be relocated and the planters be moved so that they do not encroach into the 36" walkway.
- 4. That the square footage chart and drawings for Prairie Village Center be updated and submitted to the City in order to determine the appropriate square footage for the parking requirement.

The motion was seconded by Nancy Wallerstein and passed unanimously.

OTHER BUSINESS

Information on permitted uses in R-1a

Ron Williamson briefly reviewed information that had been distributed to the City Council and discussed with them on March 3, 2014. The Council requested information on what was allowed in Prairie Village in Single Family Residential Districts compared to other Johnson County cities. The intent was to determine whether there are uses that

should be removed and/or moved to a different process. The MXD discussion was primarily a review to determine if it met the projected needs of the future.

Mr. Williamson noted that when the Conditional Use Permit was included in the State Statutes, it was envisioned to be a separate procedure from Special Use Permits. However, case law has determined over the years that Conditional Use Permits and Special Use Permits are used interchangeably and should follow the same procedures. Therefore, after further analysis, the Conditional Use Chapter should be eliminate and the list of uses wither transferred to Special Use Permits, Site Plan review or Staff review.

NEXT MEETING

The filing deadline for the May 6th meeting is Friday, April 4th. To date an application for renewal of the Special Use Permit for KCATC located in the Faith Lutheran Church facility has been submitted as well as a temporary use permit request for a summer camp program operating out the Kansas City Christian School. We anticipate taking action on the Preliminary and Final Plat for Chadwick Court at the May meeting and consideration of an application by Sprint for wireless antenna on the tower at 7700 Mission Road.

ADJOURNMENT

With no further business to come before the Commission, Chairman Ken Vaughn adjourned the meeting at 7:18 p.m.

Ken Vaughn Chairman

LOCHNER

STAFF REPORT

TO: Prairie Village Planning Commission

FROM: Ron Williamson, FAICP, Lochner, Planning Consultant

DATE: May 6, 2014, Planning Commission Meeting Project # 000009686

Application: PC 2014-03

Request: Renewal of Special Use Permit for KcATC Child Care Center

Property Address: Faith Lutheran Church, 4805 W. 67th Street

Applicant: Kansas City Autism Training Center (KcATC)

Current Zoning and Land Use: R-1A Single-Family Residential District - Church

Surrounding Zoning and Land Use: North: R-1A Single-Family District - Single Family Dwellings

East: R-1A Single-Family District – Single Family Dwellings
 South: R-1A Single-Family District – Single Family Dwellings
 West: R-1B Single-Family District – Single Family Dwellings

Legal Description: Metes and Bounds

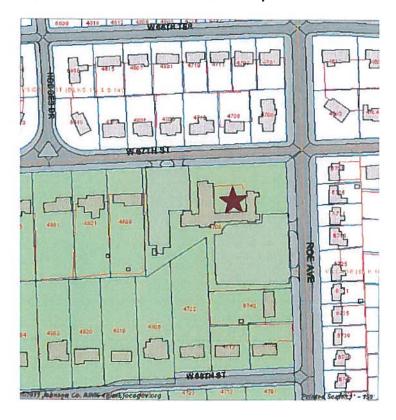
Property Area: 2.97 acres

Related Case Files: PC 2011-02 Special Use Permit for KcATC Child Care Center

PC 2008-02 Special Use Permit for T-Mobile PC 2008-05 Special Use Permit for T-Mobile

Attachments: Application, Site Plan, Project Photos

General Location Map



Aerial Map



COMMENTS:

The Kansas City Autism Training Center (KcATC) is requesting renewal of the Special Use Permit to operate a child care center in the Faith Lutheran Church located at 4805 W. 67th Street. KcATC plans to provide care for up to 60 children between the ages of 2-1/2 to 12. The center will operate year around Monday - Friday, 7:30 am to 5:30 pm. The center will be closed holidays; and spring, summer and winter breaks. The projected enrollment includes 18 children diagnosed with autism receiving one-on-one therapy and 42 non-autistic children enrolled in the preschool.

The original Special Use Permit was considered and recommended for approval by the Planning Commission on May 3, 2011, and approved by the Governing Body on May 16, 2011, subject to the following conditions:

- 1. That the child care center be approved for a maximum of 50 children and be contained within the existing building and courtyard as presented by the applicant.
- 2. That the child care center be permitted to operate year-round from 7:00 am to 6:00 pm subject to the licensing requirements by the Kansas Department of Health and Environment.
- 3. That the Special Use Permit be issued for the child care center for a period of three years from the date of City Council approval and that if the applicant desires to continue the use after that time period expires, they shall file a new application for reconsideration by the Planning Commission and City Council.
- 4. If this permit is found not to be in compliance with the terms of the approval of the Special Use Permit, it will become null and void within 90 days of notification of noncompliance unless noncompliance is corrected.

KcATC will provide professional, research-based interventions and training for children with a pervasive developmental disorder and their families. This center will also provide education to parents, educators, therapists and other direct service providers in the Kansas City area.

A recent study indicates that one (1) out of every 110 children born has autism, and that if a child is born with autism; there is a higher chance that siblings will also be autistic. Unfortunately, autism seems to be increasing and facilities need to be established to provide the proper care and training.

According to the plans submitted, the child care center occupies two floors of the education wing of the church. Four classrooms, an office, and a storage room are used on the ground floor and four rooms are used on the first floor. There is an existing courtyard that is accessed from the ground floor that serves as the outdoor exercise and play area. The courtyard is bound by the building on the east, west and south sides and a wall and fence complete the enclosure on the north side.

A neighborhood meeting was not required since no one appeared at the original approval.

There has been a court decision that Special Use Permits are in reality a change in use and should be considered in the same manner as a zoning change is considered using the "Golden Factors". The Special Use Permit ordinance has factors for consideration

similar but not identical to the "Golden Factors" and therefore, both sets of factors will be presented.

The Planning Commission shall make findings of fact to support its recommendation to approve, conditionally approve, or disapprove this Special Use Permit. In making its decision, consideration should be given to any of the following factors that are relevant to the request:

FACTORS FOR CONSIDERATION SPECIFIC TO SPECIAL USE PERMITS:

1. The proposed special use complies with all applicable provisions of these regulations including intensity of use regulations, yard regulations, and use limitations.

The child care program is contained within an existing building and fenced playground which is in compliance with the zoning regulations.

2. The proposed special use at the specified location will not adversely affect the welfare or convenience of the public.

The child care program will be an asset to the community because it will provide a much needed service for taking care of children with pervasive developmental disorders. Continued approval of this location will allow the expansion of a much needed service.

3. The proposed special use will not cause substantial injury to the value of other property in the neighborhood in which it is to be located.

The child care center is located within an existing structure and will not create any problems for the adjacent property in the neighborhood. The City has not received any complaints on the use since it started operation.

4. The location and size of the special use, the nature and intensity of the operation involved in or conducted in connection with it, and the location of the site with respect to streets giving access to it, are such that this special use will not dominate the immediate neighborhood so as to hinder development and use of neighboring property in accordance with the applicable zoning district regulations. In determining whether the special use will so dominate the immediate neighborhood, consideration shall be given to: a) the location, size and nature of the height of the building, structures, walls and fences on the site; and b) the nature and extent of landscaping and screening on the site.

The child care center is within an existing building and no new construction will occur. Therefore, the use will not have a dominating effect on the existing neighborhood.

 Off-street parking and loading areas will be provided in accordance with standards set forth in these regulations and said areas shall be screened from adjoining residential uses and located so as to protect such residential uses from any injurious affect.

The child care center uses the existing off-street parking and loading areas adjacent to Roe Avenue that are currently being provided by the church. The child care center will not be operating at the same time as other events at the church and should not create a conflict. The parking lot is large and should easily accommodate the traffic and parking needs.

6. Adequate utility, drainage and other necessary utilities have been or will be provided.

Since this use occupies an existing facility, utility services are already provided.

7. Adequate access roads or entrance and exit drives will be provided and shall be so designed to prevent hazards and to minimize traffic congestion in public streets and allevs.

Adequate entrance and exit drives currently exist off Roe Avenue and the child care center utilizes the existing infrastructure that is already in place.

8. Adjoining properties and the general public will be adequately protected from any hazardous or toxic materials, hazardous manufacturing processes, obnoxious odors, or unnecessary intrusive noises.

This particular use does not have any hazardous materials, processes, odors or intrusive noises that accompany it.

9. Architectural style and exterior materials are compatible with such styles and materials used in the neighborhood in which the proposed structure is to be built or located.

The special use has not required any changes in the exterior architecture or style of the existing building.

GOLDEN FACTORS FOR CONSIDERATION:

1. The character of the neighborhood;

The neighborhood is predominantly single-family dwellings to the north, south, east, and west. The existing property is a church.

2. The zoning and uses of property nearby;

North: R-1A Single-Family District - Single Family Dwellings East: R-1A Single-Family District - Single Family Dwellings South: R-1A Single-Family District - Single Family Dwellings West: R-1B Single-Family District - Single Family Dwellings

3. The suitability of the property for the uses to which it has been restricted under its existing zoning;

The property is zoned R-1A Single-Family Residential District which permits single-family dwellings, churches, schools, public building, parks, group homes and other uses that may be permitted either as a conditional use or special use. The property has a variety of uses available and it can accommodate uses that complement the primary use as a church.

4. The extent that a change will detrimentally affect neighboring property;

The use has been in existence for approximately two years and has not created any detrimental neighborhood issues. The renewal request is for 60 students; an increase of 10 students.

5. The length of time of any vacancy of the property;

The church was built in 1961 and, to our knowledge, has never been vacant.

6. The relative gain to public health, safety and welfare by destruction of value of the applicant's property as compared to the hardship on other individual landowners;

The project is within an existing building that will not have any exterior modifications. The applicant will be able to better utilize the property and no hardship will be created for adjacent property owners.

7. City staff recommendations;

The use has been in operation for approximately two years with no complaints; the use is within an existing building with no exterior changes; the use will have minimal impact on the neighborhood; and the use provides a needed service for preschool children that is in demand in Prairie Village. It is recommended that it be approved for five years so that it can be reevaluated to be sure that it does not adversely affect the neighborhood.

8. Conformance with the Comprehensive Plan.

One of the primary objectives of Village Vision is to encourage reinvestment in the community to maintain the quality of life in Prairie Village. The child care center is an amenity that will improve quality of life in Prairie Village and help make it a desirable location for young families. This application for renewal of the Special Use Permit of the child care center is consistent with Village Vision in encouraging reinvestment; providing multiple uses in existing buildings and making better use of underutilized facilities.

RECOMMENDATIONS:

It is the recommendation of Staff that the Planning Commission find favorably on both sets of factors and recommend approval of the KcATC Child Care Center at 4805 W. 67th Street to the Governing Body subject to the following conditions:

- 1. That the child care center be approved for a maximum of 60 children and be contained within the existing building and courtyard as presented by the applicant.
- 2. That the child care center be permitted to operate year-round from 7:00 am to 6:00 pm subject to the licensing requirements by the Kansas Department of Health and Environment.
- 3. That the Special Use Permit be issued for the child care center for a period of five (5) years from the date of Governing Body approval and that if the applicant desires to continue the use after that time period expires, they shall file a new application for reconsideration by the Planning Commission and Governing Body.
- 4. That the child care center be in compliance with all state and local code requirements.
- 5. If this permit is found not to be in compliance with the terms of the approval of the Special Use Permit, it will become null and void within 90 days of notification of noncompliance unless noncompliance is corrected.

Site Plan Approval

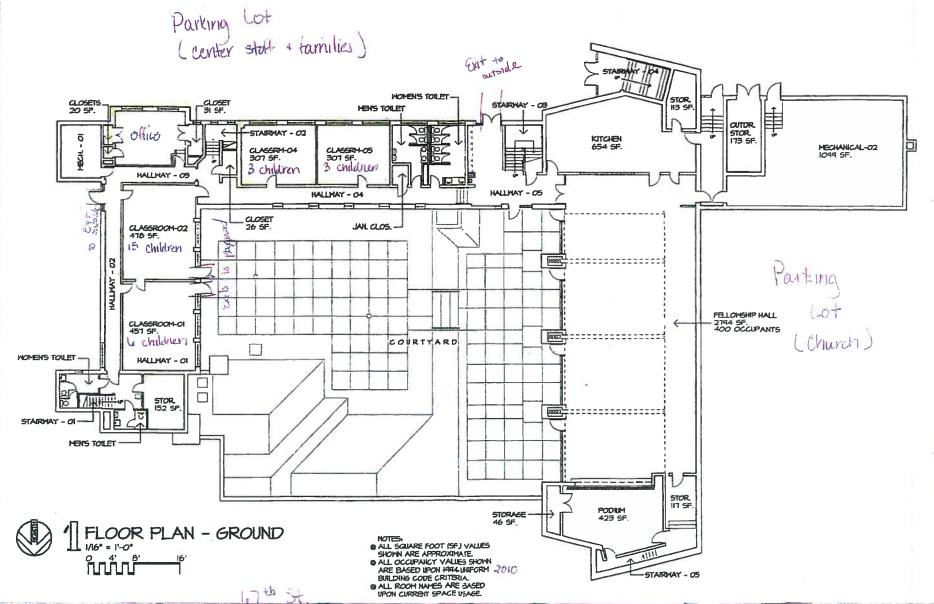
Since the use is entirely contained within an existing building and courtyard, and no physical changes are proposed to the exterior of the building or site, site plan approval is not necessary.



Courtyard Playground



Classroom Area



SPECIAL USE PERMIT APPLICATION

CITY OF PRAIRIE VILLAGE, KANSAS	For Office Use Only Case No.: PC2014-03 Filing Fees: 925 Deposit: 9500
	Date Advertised:
APPLICANT: Kansas City Autism Training Center, Inc.	PHONE: 913-432-5454
ADDRESS: 4805 West 67th St., Prairie Village, KS 662	208 E-MAIL: ron@kcatc.net
OWNER: Ron Johnson, Executive Director	PHONE: 913-432-5454
ADDRESS: 4805 West 67th St., Prairie Village, KS	ZIP: 66208
LOCATION OF PROPERTY: 4805 West 67th St., Pra	airie Village, KS 66208
LEGAL DESCRIPTION: Faith Evangelical Lutheran	Church, Inc.
ADJACENT LAND USE AND ZONING: <u>Land Use</u>	Zoning
North Residential South Residential East Residential West Residential	R-1A R-1A R-1B R-1A
Present Use of Property: Church/ Child Care Center	er .

Please complete both pages of the form and return to:
Planning Commission Secretary
City of Prairie Village
7700 Mission Road
Prairie Village, KS 66208

Does the proposed special use meet the following standards? If yes, attach a separate Sheet explaining why.

		<u>Yes</u>	_No_
1.	Is deemed necessary for the public convenience at that location.	X	
2.	Is so designed, located and proposed to be operated that the public health, safety, and welfare will be protected.	X	
3.	Is found to be generally compatible with the neighborhood in which it is proposed.	X	
4.	Will comply with the height and area regulations of the district in which it is proposed.	X	
5.	Off-street parking and loading areas will be provided in accordance with the standards set forth in the zoning regulations, and such areas will be screened from adjoining residential uses and located so as to protect such residential use from any injurious effect.	X	
6.	Adequate utility, drainage, and other such necessary facilities have been or will be provided.	X	
Should this special use be valid only for a specific time period? Yes No			
SIC	If Yes, what length of time? ENATURE: Aud Johnson DAT	e: <u>3/2</u>	5/14
BY	Ronald L Johnson	,	, .
TIT	LE: Executive Director		

Attachments Required:

- Site plan showing existing and proposed structures on the property in questions, and adjacent property, off-street parking, driveways, and other information.
- Certified list of property owners

Application No. Pc 2014-03

Address

Ronald L. Jo	ohnson , being duly sworn upon his oath, deposes and states:
Kansas City	Autism Training Center, Inc. Executive Director
1.	I am the (owner of) (attorney for) (agent of) the property described in the attached notice upon which an application has been filed before the Planning Commission of the City of Prairie Village, Kansas.
2.	On the day ofN/A, 20 a public information meeting was held pursuant to the Citizen Participation Policy adopted on June 6, 2000, by the Planning Commission
3.	On the day of, 2014, I did comply with notification requirements to landowners as stated Section 19.28.020, of the Prairie Village Zoning Regulations and notified in letter by certified mail all owners of land located within 200 feet of the described real property. Notice was mailed to the following:
	<u>Name</u> <u>Address</u>
See C	Certified Mail Receipts and spreadsheet list.
l cert	tify that the foregoing is true and correct.
	Name 4805 West 67th Street
	Prairie Village, KS 66208

AFFIDAVIT

STATE OF KANSAS)	
COUNTY OF JOHNSON)	
Lyle Niedens	, being duly sworn upon his oath, disposes and
President Faith Evangelical Lutheran Church states:	
That he is the (owner) (attorney fo	r) (agent of) the tract of land for which the
application was filed. That in accordance	e with Section 19.28.025 of the Prairie Village
Zoning Regulations, the applicant placed	and maintained a sign, furnished by the City,
on that tract of land. Said sign was a mir	nimum of two feet above the ground line and
within five feet of the street right-of-way li	ne in a central position of the tract of land and
had no visual obstruction thereto.	<i>n</i>
	Owner/Attorney for/Agent of)
Subscribed and sworn to before me this	21st day of pril , 2014.
KIM HARRINGTON Notary Public, State of Kansas My Appointment Expires	Notary Public of Planning Commission Secretary

Carolyn	Novinger	4608 W 67th St
Ravi	Dasari	4700 W 67th St
Aleta	Cress	4700 W 68th St
Michael and Terri	Dunn	4708 W 67th St
Troy Sackett	Janet Moore	4712 W 68th St
Leo	Goertz Trustee	4716 W 67th St
Harold	Neptune Trustee	4722 W 68th St
Patrick	Ink	4800 W 67th St
William and Bette	Tiernan	4806 W 67th St
John	Faerber	4806 W 68th St
Loredana	Molteni Trustee	4809 W 67th St
Ronald Reed	Catherine Crichton-Reed	4810 W 67th St
Christopher and Jane	Wooldridge	4810 W 68th St
Gina	Robinson	4820 W 68th St
Curtis	Catenhauser	4821 W 67th St
Sarah Shouse	Jeff Koenigs	6619 Hodges Dr
Larry and Jackie	Kamin	6701 Roe Ave
Brian and Jennifer	Egan	6705 Roe Ave
Benjamin and Marla	Washburn	6711 Roe Ave
Cynthia	Anderson Trustee	6719 Roe Ave
Karen	Miller	6725 Roe Ave
Christopher and Allyson	Gray	6731 Roe Ave
Thompson Real Estate		6735 Roe Ave
A1A Property LLC		6739 Roe Ave
Jay	Julian	6740 Roe Ave
Tina	Brennan	6743 Roe Ave

CarolynNovinger 4608W 67th St Prairie Village,Kansas 66208 Ravi Dasari 4700W 67th St Prairie Village,Kansas 66208 Aleta Cress 4952 Westwood Ter Kansas City MO (44/12

Michael and TerriDunn 4708W 67th St Prairie Village, Kansas 66208 Troy Sackett Janet Moore 4712W 68th St Prairie Village,Kansas 66208 Leo Goertz Trustee 4716W 67th St Prairie Village,Kansas 66208

Harold Neptune Trustee 4722W 68th St Prairie Village, Kansas 66208 Patrick Ink
17 Pipes Loop
Covington LA 70435

William and Bette Tiernan 4806W 67th St Prairie Village,Kansas 66208

John Faerber 4806W 68th St Prairie Village,Kansas 66208 Loredana Molteni Trustee 4809W 67th St Prairie Village,Kansas 66208 Ronald Reed Catherine Crichton-Reed 4810W 67th St Prairie Village,Kansas 66208

Christopher and JaneWooldridge 4810W 68th St Prairie Village,Kansas 66208 Gina Robinson 4820W 68th St Prairie Village,Kansas 66208 Curtis Catenhauser 4821W 67th St Prairie Village,Kansas 66208

Sarah Shouse Jeff Koenigs 6619Hodges Dr Prairie Village,Kansas 66208

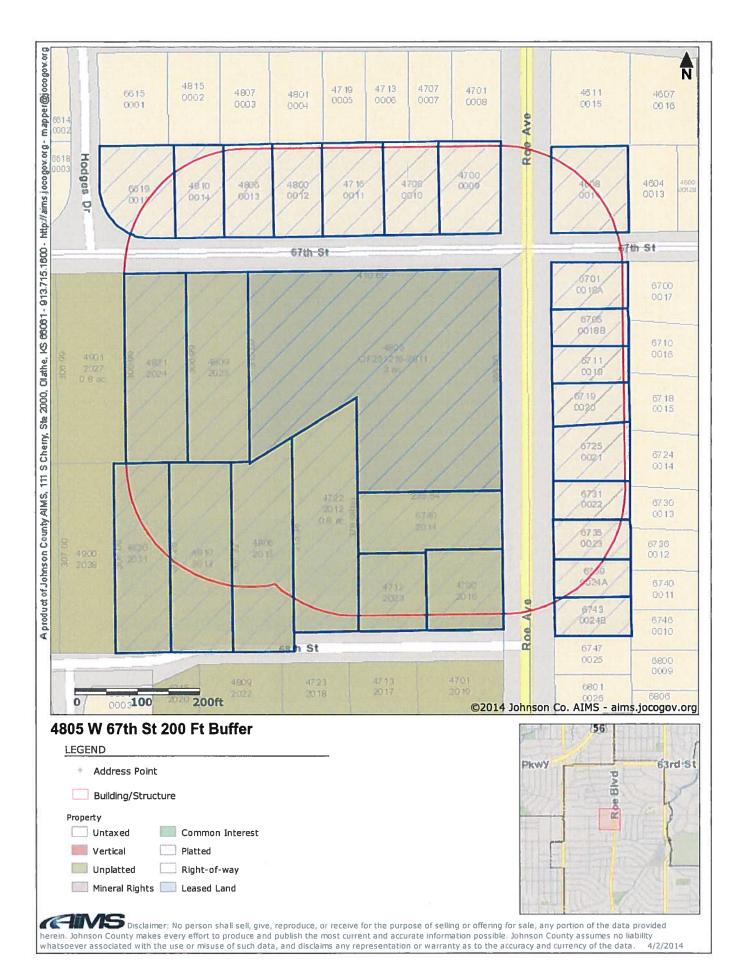
Larry and JackieKamin 6701Roe Ave Prairie Village,Kansas 66208 Brian and JenniferEgan 6705Roe Ave Prairie Village,Kansas 66208

Benjamin and Marla Washburn 6711Rce Ave Prairie Village,Kansas 66208

Cynthia Anderson Trustee 6719Roe Ave Prairie Village,Kansas 66208 Karen Miller 6725Roe Ave Prairie Village,Kansas 66208

Christopher and Allyson Gray 6731Roe Ave Prairie Village,Kansas 66208 Thompson Real Estate 6735Roe Ave Prairie Village,Kansas 66208 A1A Property LLC
6739Rde Ave
Praise Village, Kansas 66208
1010 Westloop PL
Manhall an ICS
66502.

Jay Julian 6740Roe Ave Prairie Village,Kansas 66208 Tina Brennan
12850 Pembroke C.Y
Llaws od Ks 66209



LOCHNER

STAFF REPORT

TO:

Prairie Village Planning Commission

FROM:

Ron Williamson, FAICP, Lochner, Planning Consultant

DATE:

May 6, 2014, Planning Commission Meeting

Project # 000009686

Application:

PC 2014-110

Request:

Temporary Use Permit for an ADHD Summer Treatment Program

Property Address:

4801 W. 79th Street

Applicant:

Children's Mercy South

Current Zoning and Land Use:

R-1A Single-Family District – Kansas City Christian School

Surrounding Zoning and Land Use: North: R-1B Single-Family District - Single Family Dwellings

East: R-1A Single-Family District – Single Family Dwellings
South: R-1A Single-Family District – Single Family Dwellings
West: R-1A Single-Family District – Single Family Dwellings
West: R-1A Single-Family District – Single Family Dwellings

Legal Description:

Metes and Bounds

Property Area:

7.44 acres

Related Case Files:

N/A

Attachments:

Application

General Location Map



Aerial Map



COMMENTS:

Children's Mercy South is proposing to provide an eight-week Summer Treatment Program for approximately 40 children with ADHD. The program is proposed to be held at the Kansas City Christian School from June 2, 2014 to July 25, 2014. The hours of operation will be 7:30 am to 5:30 pm; Monday, Tuesday, Wednesday, and Friday. The program will use three classrooms, the cafeteria, the gymnasium, and the outdoor playgrounds. The proposed Summer Treatment Program will use the existing building, parking lots, and outdoor areas and there will be no changes made to the property. Therefore, no site plan was required.

Since the short-term use is for more than 30 days, it requires Planning Commission approval.

The Planning Commission may approve the temporary use permit provided that the application meets the following:

1. The applicant shall submit in written form a complete description of the proposed use, including drawings of proposed physical improvements, estimated accumulation of automobiles and persons, hours of operation, length of time requested, and other characteristics and effects on the neighborhood.

The applicant has provided a detailed description of the proposed operation, as follows:

The applicant has submitted a two-page description of the program and stated on the application that it will be provided from 7:30 am to 5:30 pm; Monday, Tuesday, Wednesday, and Friday from June 2nd until July 25th. There will be no external changes to the facility or grounds so it should have no adverse effects on the neighborhood. This provides needed service for the community and is a good use of a facility that would remain unused for the summer.

2. If approved, a specific time period shall be determined and a short-term permit shall not be operated longer than the period stipulated in the permit.

The applicant has requested that the short-term use be approved for the period from June 2, 2014 to July 25, 2014, and that would be the maximum time of operation that would be permitted.

3. Upon cessation of the short-term permit, all materials and equipment shall be promptly removed and the property restored to its normal condition. If after giving full consideration to the effect of the requested short-term permit on the neighborhood and the community, the Planning Commission deems the request reasonable, the permit for the short-term use may be approved. Conditions of operations, provision for surety bond, and other reasonable safeguards may be written into the permit. Such permit may be approved in any zoning district.

There will be no external changes to the building and grounds; therefore, no adverse effects on the adjacent neighborhood.

RECOMMENDATION:

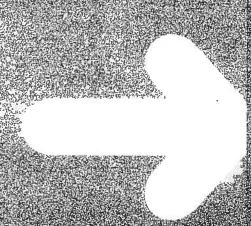
It is the recommendation of Staff that the Planning Commission approve the temporary use permit for an ADHD Summer Treatment Program at 4801 W. 79th Street subject to the following conditions:

- 1. That the temporary use permit for the ADHD Summer Treatment Program be approved for a period from June 2, 2014 to July 25, 2014.
- 2. That the hours of operation shall be from 7:30 am to 5:30 pm on Monday, Tuesday, Wednesday, and Friday.
- 3. That the Summer Treatment Program use the existing building, parking, driveways, and playgrounds and will make no external changes to the property.
- 4. That the applicant properly maintain the exterior area of the property and will leave it in an acceptable condition when the program ends on July 25th.

Date: 3|26|14

TEMPORARY USE PERMIT APPLICATION City of Prairie Village, Kansas

2011 10	Wa C t.	andreas I Omeros
<u> </u>		reatment Program
		Phone 913-696-5740
Address 5520 Colle	ye Blvd	City/State/ZipOverland Park, KS 6621
Is the organization (chec Non-profit Authorize	k all that apply): t Civi d to do business in the S	ic Incorporated state of Kansas
E	le / activity	Trade show Street Fair Promotional venture / entertainment
Please give a complete d	escription of proposed us	se: 8 week Summer Day Treatment Widren with Abtto
Attach any descriptive me the proposed use. We have gymn. Please indicate what type NONE Hours of Operation:	West 79th St, (laterials such as plans, m will be using 30 nasium and outcomes of signs, flags or other 30-5:30 Hon, Tues, U	
Estimated accumulation	of automobiles 33-	25 and persons 40 campers 20 counselors
Other characteristics and		d leading
	See reverse for con-	
	Date	Rec'd by
Check to follow): ¹⁵	



WHAT DOES A TYPICAL DAY AI STP LOOK LIKE?

oup spen is two hours daily in classroams conducted by special ediplorars. These specialists is curry out behavior incidite thorographic against designed, to hear children's inobjects in a classroam context. The remainder of each day consists of regressional group activities that implement a valiety of treating of components.

QUESTIONS?

For more information regarding Childrenis Alteror 30 maet Trediment Phogram altedso visit. — 17 www.childrenismercy.org/adhāsīp





FOR MORE INFORMATION GAIL

The Children's Marcy Summer Treatment Program. Phone: 913: 696-5748

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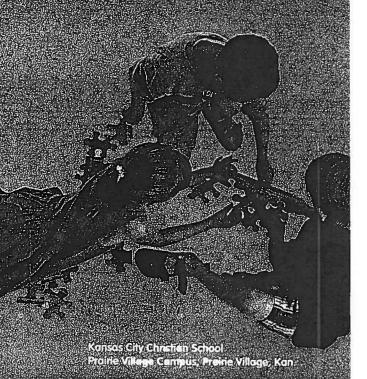
Kansas Ein Christian School Fraine Village Campus 480 West virt Street Straine Village KS-81/08

ChildrensMercy.org/adhasto

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Children s Mercy is an eabal approximity affirmally. adjuniom player and a United Way, agency 02 (14).

SUMMER TREATMENT PROGRAM



WHAT IS THE SUMMER TREATMENT PROGRAM (STP)?

For Kids

Something more than medication to help improve an ADHD child's behavior. Children's Mercy Summer Treatment Program (STP) is an eightweek, therapeutic day camp designed for children with Attention Deficit Hyperactivity Disorder and related problems. STP offers an award-winning comprehensive treatment that is tailored to each child's behavioral, emotional and learning difficulties. While the Children's Mercy STP is highly structured and emphasizes treatment, most children enjoy the program tremendously, as they would any summer camp.

For Parents

Children's Mercy STP also provides evening meetings with parents to discuss ADHD treatments and give parents the tools to extend the gains from STP to the child's natural environment. The sessions help parents work with their children to change unacceptable behavior at home, reduce noncompliant and disruptive behaviors, improve homework task skills, and improve relationships with parents and siblings.

HOW WILL STP HELP?

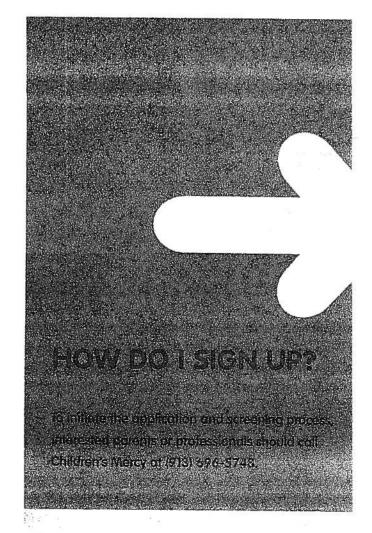
STP will help to develop the child's problem-solving and social skills, and help the child gain the social awareness necessary to enable him or her to get along better with other children. The camp will develop the child's abilities to follow through with instructions and complete tasks. STP will also improve the child's learning skills and academic performance as well as the child's self-esteem. STP will help to teach parents how to develop, reinforce, and maintain these positive changes.

WHO IS ELIGIBLE?

Children ages 6-13 are eligible to participate in the program with enrollment limited to those who meet certain criteria. Referrals can be made by school personnel, mental health professionals, physicians or parents.

PROGRAM STAFF

The STP is implemented by highly-trained, undergraduate paraprofessional therapists. students pursuing advanced degrees in psychology, and educational specialists. Doctoral level psychologists supervise the psychosocial and behavioral aspects of the program, while developmental pediatricians and/ or primary care physicians supervise the medical aspects of the program. In general, there are five staff members for every group of 15 children. If medically indicated, the Children's Mercy STP staff will also evaluate the effectiveness of the child's medication. The STP uses only treatments that have been welldocumented and shown to be effective through research. However, our program staff continues to carefully evaluate treatment effectiveness, both at the individual level and for the program as a whole.





LOCHNER

STAFF REPORT

TO:

Prairie Village Planning Commission

FROM:

Ron Williamson, FAICP, Lochner, Planning Consultant

DATE:

May 6, 2014, Planning Commission Meeting

Project # 000009686

Application:

PC 2014-111

Request:

Site Plan Approval to Add Three Antennas on the Cell Tower

Property Address:

7700 Mission Road, City Hall

Applicant:

Sprint

Current Zoning and Land Use:

R-1A Municipal Office Complex

Surrounding Zoning and Land Use: North: R-1A Single-Family District - SM East High School

East: R-1A Single-Family District – Single Family Dwellings

South: R-1A Single-Family District - Church

West: R-1A Single-Family District – Single Family Dwellings

Legal Description:

Prairie Village Municipal Office Complex Tract 1

Property Area:

Cell Tower Compound - approximately 3,200 sq. ft., 0.07 acres

Municipal Office Complex - 16.75 acres

Related Case Files:

PC 2014-108 Site Plan Approval for Verizon Wireless

PC 2014-107 Site Plan Approval for AT&T PC 2011-114 Site Plan Approval for AT&T

PC 2009-17 Special Use Permit Renewal for Sprint

PC 2006-19 Special Use Permit Renewal for Cingular Wireless

PC 2005-115 Final Plat Municipal Office Complex

PC 2004-09 Special Use Permit for Sprint PC 2001-05 Special Use Permit for AT&T

PC 2000-05 Special Use Permit for General Dynamics for Metricom

PC 1997-04 Special Use Permit to Replace Tower

Attachments:

Application, Site Plan, Project Photos

General Location Map



Aerial Map



STAFF COMMENTS:

Sprint is requesting approval to add three new antenna panels and a fiber optic cable to upgrade its communications network for higher capacity and speed. Sprint also proposes to remove some existing equipment boxes and install new equipment within existing cabinets. It should be noted that the three existing equipment cabinets have been removed. The fiber optic cable will be inside the tower. Currently Sprint is at the 110' elevation on the tower and has only three panel antennas. The new antennas will be approximately 13" wide by 64" long. The antennas and the supporting equipment will add approximately 120 lbs. for each location; for a total of about 360 lbs.

A structural analysis has been prepared and states that the monopole or tower is structurally capable of supporting the existing and proposed antennas, their mounting equipment, and the coaxial and fiber optic cable inside the tower. The structural report varied from the AT&T structural report and the difference is that the earlier report overestimated the size of the Sprint panels.

In October 2009, the Planning Commission approved the Special Use Permit Renewal for this tower and the approval was based on the new Wireless Communications Ordinance. Changes in the installation for carriers are required to be submitted to the Planning Commission for site plan review and approval. The Planning Commission approved similar upgrades for AT&T and Verizon Wireless in March.

Since no neighbors have appeared at previous neighborhood meetings and the changes were not major, the applicant was not required to hold a neighborhood meeting.

The Planning Commission shall give consideration to the following criteria in approving or disapproving a site plan:

- A. The site is capable of accommodating the building, parking areas and drives with appropriate open space and landscape.
 - The proposed improvements will occur on the existing tower which according to the structural report is adequate to accommodate the proposed improvements.
- B. Utilities are available with adequate capacity to serve the proposed development.

 Adequate utilities are available to serve this location.
- c. The plan provides for adequate management of stormwater runoff.
 - No additional impervious area will be created because all improvements will be on the tower.
- D. The plan provides for safe and easy ingress, egress, and internal traffic circulation.
 - The site utilizes the existing driveway and parking lot for circulation that currently serves it and no changes are proposed.
- E. The plan is consistent with good land planning and good site engineering design principles.
 - The applicant has prepared a structural analysis and the tower is sufficient to carry the additional load.
- F. An appropriate degree of compatibility will prevail between the architectural quality of the proposed building and the surrounding neighborhood.

The tower has been at this location for more than twenty years and the proposed installation consists of adding three antennas, which is a minor improvement compared to the size of the tower. The tower is located in the Municipal Complex and has very little impact on surrounding residential areas.

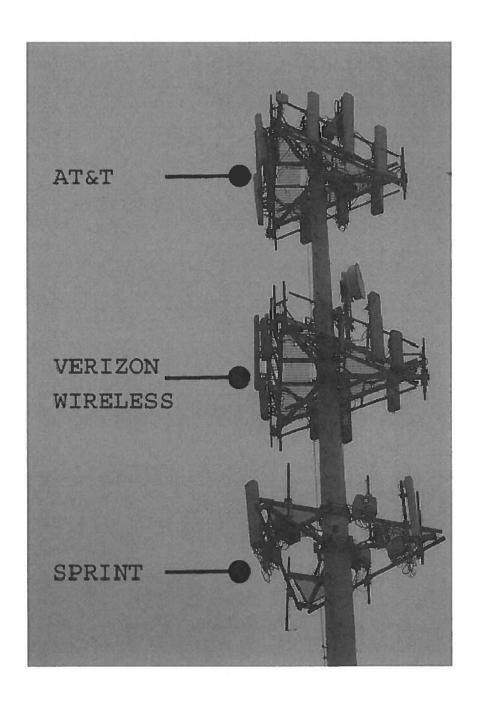
G. The plan represents an overall development pattern that is consistent with the comprehensive plan and other adopted planning policies.

Wireless communications are not specifically addressed in Village Vision. Generally it falls into maintaining and improving infrastructure.

RECOMMENDATION:

It is the recommendation of Staff that the Planning Commission approve the proposed site plan for Sprint subject to the following conditions:

- 1. That the antennas be installed as shown on the proposed site plan.
- 2. That all wiring be contained inside the tower.
- 3. That the new equipment be installed in the existing cabinets.





Planning Commission Application

For Office Use Only	Please complete this form and return with
Case No.: <i>fc 2014-111</i>	Information requested to:
Filing Fee:	Assistant City Administrator
Deposit:	City of Prairie Village
Date Advertised:	7700 Mission Rd.
Date Notices Sent:	Prairie Village, KS 66208
Public Hearing Date: 5/6/14	Flaine Village, NO 00200
Address: 7700 Mission Roa Location of Property: 7700 M.	d, Prairie Village Kszip: 66208 ission Rd, Prairie Village, Ks
Legal Description: See atta	
detail) Adding addition	of the following: (Describe proposal/request in all antennas to existing tower
and adding one cat	pinet to ground equipment
AGRI	EEMENT TO PAY EXPENSES
the PRAIRIE VILLAGE BOARD OF ZON (City) for	n with the PRAIRIE VILLAGE PLANNING COMMISSION or NING APPEALS of the CITY OF PRAIRIE VILLAGE, KANSAS n, CITY may incur certain expenses, such as publication
costs, consulting fees, attorney fees and	
result of said application. Said costs submitted by CITY to APPLICANT. It its commissions will be effective until or not APPLICANT obtains the relief r	
Applicant's Signature/Date	Owner's Signature/Date

EXHIBIT B

DESCRIPTION OF SPRINT PCS' COMMUNICATION FACILITY AND USE OF SPRINT PCS' PORTION OF PREMISES

The Sprint PCS' portion of Premises is defined as follows:

A TRACT OF LAND LOCATED IN THE SOUTHEAST QUARTER OF SECTION 21, TOWNSHIP 12 SOUTH, RANGE 25 EAST, IN PRAIRIE VILLAGE, JOHNSON COUNTY, KANSAS MORE PARTICULARLY DESCRIBED AS FOLLOWS: COMMENCING AT THE SOUTHEAST CORNER OF SAID SOUTHEAST QUARTER; THENCE NORTH 02° 20′ 39″ WEST ALONG THE EAST LINE OF SAID SOUTHEAST QUARTER A DISTANCE OF 1297.69 FEET; THENCE SOUTH 87° 39′ 21″ WEST LEAVING SAID EAST LINE A DISTANCE OF 309.05 FEET TO THE POINT OF BEGINNING OF THE TRACT OF LAND TO BE DESCRIBED; THENCE SOUTH 27° 39′ 15″ WEST A DISTANCE OF 25.00 FEET; THENCE NORTH 62° 20′ 45″ WEST A DISTANCE OF 20.00 FEET; THENCE NORTH 27° 39′ 15″ WEST A DISTANCE OF 25.00 FEET; THENCE SOUTH 62° 20′ 45″ A DISTANCE OF 20.00 FEET TO THE POINT OF BEGINNING. CONTAINS 500 SQUARE FEET OR 0.011 ACRES MORE OR LESS.

The location and orientation of Tenant's space on the Tower and space on the ground for Tenant's equipment compound are as follows:

- Space at approximately the 110-foot elevation for three (3) EMS Model RR65-17-02DPL2 panel antennas measuring 48" x 8" x 2.5" (Height x Width x Depth) to be flush mounted to the monopole, along with three (3) coaxial cables measuring 1 1/4 inches in diameter.
- Ground space totaling approximately 500 square feet to the west southwest of, and immediately adjacent to, the existing equipment compound, as more particularly described above as the Sprint PCS Portion of Premises, for the installation of up to six (6) equipment cabinets measuring approximately 6' x 3.5' x 2.5' (Height x Width x Depth).

All of the above-mentioned ground space, antennas and related equipment are more particularly described on the attached Architectural Drawings dated October 14, 2004 labeled as Sprint, Site Name: Prairie Village City Monopole, Site Number KC60XC727-C, Colocation-Monopole, containing the following Sheet Numbers: T-1, LS-1, C-1, A-1 through A-5 inclusive, E-1 through E-5 inclusive, and GN-1 through GN-2 inclusive.

Owners Initials PUS
Sprint PCS Initials:



TOWER ANALYSIS REPORT

Sprint

KC60XC727, Prairie Village City Monopole

SSC # KS-0394-A

March 7, 2014

SSC Inc.

9900 W. 109th St., Suite 300, Overland Park, KS, 66210 Ph: (913) 438-7700 Fax: (913) 438-7777

serve solve communicate

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Source of Data	3
Antenna and Transmission Lines	3
Structural Analysis of Tower Results	4
Foundation Analysis Results	5
Recommendations	5
General Conditions Appendix	хΑ
Structural Calculations and Diagrams Appendix	х В



GENERAL TOWER INFORMATION

Date:

March 7, 2014

Site Name:

Prairie Village City Monopole

Site Location:

Prairie Village, Johnson County, KS

Site Number:

KC60XC727

Proposed Carrier: Tower Height:

Sprint

Tower Type:

150' Monopole

Tower Manufacturer:

Valmont

Design Standard:

TIA-222-G

Structural Classification:

II

Wind Loading:

90 mph w/o ice

Wind and Ice Loading:

40 mph w/ 1.00" ice

Serviceability Criteria:

60 mph w/o ice

Exposure Category:

В

Topographic Category:

1

Seismic Criteria:

 $S_s = 0.13$

SSC Project Number:

SSC # KS-0394-A

Sprint KC60XC727, Prairie Village City Monopole SSC # KS-0394-A, page 3

Introduction

Selective Site Consultants, Inc. (SSC) has performed a structural analysis for the referenced existing communication tower. The purpose of this analysis is to determine the overall stability and structural adequacy of the existing structure to accommodate the proposed changed condition in accordance with TIA-222-G.

Source of Data

Our analysis is based on information regarding the tower structure and contained in original tower drawings by Valmont (Order No. 10578-91) dated September 13, 1991. Existing antenna information was obtained from a rigorous structural analysis report from Black & Veatch (Project # 122041) dated December 3, 2013 and current photos. Proposed antenna information is obtained from a POR sheet, dated February 2014 and constructing drawings by SSC, dated February 21, 2014.

This analysis assumes the monopole is fabricated from A572 Gr. 65 ksi steel and the base plate is fabricated from A871 Gr. 60 ksi steel. Anchor Bolts are assumed as A615 Gr. 75 ksi. All other steel assumed to be 36 ksi.

A rigorous structural analysis was performed utilizing tnxTower Version 6.1 software. The calculations were performed in accordance with TIA-222-G 'Structural Standard for Antenna Supporting Structures and Antennas'. The tower was analyzed for TIA-222-G specified load combinations, with the specified loads, as reproduced in General Tower Information of this report. Structural Classification, Exposure Category, and Topographic Category are also listed General Tower Information of this report. Topographic Category and the height of topographic features were estimated from USGS Quadrangle maps. This analysis considers wind from all specified directions. See the Appendix B for structural calculations.

Antenna and Transmission Line Loading

Our understanding of the antenna and transmission line loading conditions is shown below.

Antenna Status	Qty	Antenna Vender	Antenna Type	CL Elev. Ant./Mount	Mount	Azimuth	Feed Line
	3	CSS	XDUO6-80-R w/ (12) TMAs				(12) 1-5/8"
	1	Powerwave	P65-17-XLH-RR w/ (1) RRH		_		Coax, (2) 3/8" RET
Existing (AT&T)		800 10765 w/ (1) RRH	150'/150'	Platform w/	Sectored	Cable, (1) 3/8"	
	1	Kathrein	800 10766 w/ (1) Dist. Box & (1) RRH		Handrails	Handrails	Fiber Cable, &
	3	Andrew	SBNH-1D6565C				(2) 3/4" DC Cables

Sprint KC60XC727, Prairie Village City Monopole SSC # KS-0394-A, page 4

Antenna and Transmission Line Loading, continued

Antenna Status	Qty	Antenna Vender	Antenna Type	CL Elev. Ant./Mount	Mount	Azimuth	Feed Line	
Existing	1	Unknown	12" x 12" Panel Antenna	150'/150'	Same as above	Unknown	(1) 1/2" Coax	
Existing	1	Andrew	HP 3	130'/130'	Pipe Mount	Unknown	(1) 1-3/32" Coax	
Existing	1	Raycap	Dist. Box & (3) RRUs	125'/125'	Ring Mount	Unknown		
	6	Decibel	731DG65VTAXM w/ (6) TMAs		Platform	Sectored	(10) 1-5/8" Coax &	
Existing (VZW)	3	Amphenol	BXA-70063-8CF-6	123'/123'	w/ Handrails	Sectored	(3) 7/8" Coax	
	3	Amphenol	BXA-171063-12CF-2		Handrails	Tiandrans	Sectored	
Existing (Sprint)	3	RFS	APXVERR18-C w/ (3) Dist. Boxes & (12) RRUs	109'/109'	Low-	Sectored	(1) 1-5/8" Hybrid Cable	
Proposed (Sprint)	3	Commscope	TTTT65AP-1XR w/ (3) RRHs	109 /109	Profile Platform	Sectored	(1) 5/8" Fiber Cables	
Existing	1	Unknown	20' Omni	64'/54'	Standoff Mount	N/A	(1) 3/8" Coax	

Notes:

- 1. In addition to the above listed antennas, the tower was analyzed with a lightning rod at elevation 150'.
- 2. All feed lines are assumed to be located inside of the monopole.

Structural Analysis of Tower Results

The analysis of the existing tower with the proposed loadings installed indicates no member overstressing according to TIA-222-G Structural Standard. Results of the analysis are shown in the following table and calculations may be found in Appendix B:

Tower Section	Max % Allowable Stress
Pole Steel (150'-95.6667')	80.1
Pole Steel (95.6667'-46.75')	85.5
Pole Steel (46.75'-0')	94.8
Base Plate	73.5
Anchor Rods	64.0

Sprint KC60XC727, Prairie Village City Monopole SSC # KS-0394-A, page 5

Foundation Analysis Results

An analysis was performed on the existing foundation with reactions corresponding to the proposed factored loading. Existing foundation information was obtained from a foundation investigation from FDH Engineering, dated May 11, 2011 contained in a Black & Veatch analysis dated December 3, 2013, and analyzed using geotechnical information from Terracon Consultants (Project # 02105210), dated October 20, 2010. Assuming the original foundation was properly installed per the noted drawings, the existing foundation can be considered adequate for the proposed loading condition.

Recommendations

It is our conclusion that the tower as analyzed **does comply** with TIA-222-G Structural Standards under the proposed loading condition.

If the existing loading conditions are different or change from those analyzed, this report shall be deemed obsolete and further investigation will be required.

If you have any questions or comments, please do not hesitate to call.

Sincerely,

Tyler Monnett, E.P.T.

Tyler Monnett, E.I.T.

APPENDIX A

General Conditions

Please note that SSC makes no warranties, expressed or implied in connection with this report and disclaims any liability arising from original design, material, fabrication and erection deficiencies for this tower.

It is the responsibility of the Client to ensure that information provided by the Client to SSC and used in this analysis is correct. This information is assumed correct unless notified otherwise by the Client.

This analysis assumes the tower steel is in its original state with no deterioration due to improper erection procedures or field modifications and does not consider fabrication quality. The recommendations, conclusions, and opinions contained in this report pertain only to the analysis of the tower structure and the load carrying capacity of its members.

This analysis assumes any suggested modifications are installed as recommended and is not intended to address temporary conditions of the tower as modifications are being performed. It is strongly recommended that the Installer of any tower modification thoroughly assess installation procedures and how temporary conditions present while modifications are being performed influence tower members. Installer is responsible for sequence of operation and any required temporary bracing or strengthening of tower during modification operations. SSC is not responsible for the conclusions, opinion, or recommendations made by others based on the information we supply.

APPENDIX B

Structural Calculations and Diagrams Existing Tower with Proposed Loading

2	2	-
Length (ft) 52.00	50.25	54.33
Number of Sides	12	12
Thickness (in) 0.3438	0.3125	0.2188
Socket Length (ft)	5.25	4.33
Top Dia (in) 32.9298	24.9125	16.3500
Bot Dia (in) 42,2900	34.5000	26.1300
Grade	A572-65	
Weight (K) 15.4 7.3	5.4	2.7
0.011	95.7 ft	95.7 ft
ALL REACTIONS ARE FACTORED AXIAL 64 K SHEAR 4 K TORQUE 1 kip-ft 40 mph WIND - 1.0000 in ICE AXIAL 32 K SHEAR 22 K TORQUE 2 kip-ft REACTIONS - 90 mph WIND		

DESIGNED APPURTENANCE LOADING

TYPE	ELEVATION	TYPE	ELEVATION
Lightning Rod	150	(2) TMA	123
PiROD 12' Platform w / handrails	150	(2) TMA	123
XDUO6-80-R	150	BXA-70063-8CF-EDIN-X	123
XDUO6-80-R	150	BXA-70063-8CF-EDIN-X	123
XDUO6-80-R	150	BXA-70063-BCF-EDIN-X	123
(4) TMA	150	BXA-171063-12CF-EDIN-X	123
(4) TMA	150	BXA-171063-12CF-EDIN-X	123
(4) TMA	150	BXA-171063-12CF-EDIN-X	123
P65-17-XLH-RR w/ Pipe Mount	150	PIROD 12' Platform w / handrails	123
9442 RRH2X40-07-L	150	APXVERR18-C	109
800 10765	150	APXVERR18-C	109
9442 RRH2X40-07-L	150	APXVERR18-C	109
800 10766	150	(2) RRUS	109
DC6-48-60-18-8F	150	(2) RRUS	109
9442 RRH2X40-07-L	150	(2) RRUS	109
SBNH-1D6565C	150	(2) RRUS A2 Module	109
SBNH-1D6565C	150	(2) RRUS A2 Module	109
SBNH-1D6565C	150	(2) RRUS A2 Module	109
12"x12"	150	DC6-48-60-18-8F	109
Pipe Mount [PM 601-1]	130	DC6-48-60-18-8F	109
3' Dish w/o Radome	130	DC6-48-60-18-8F	109
DC6-48-60-18-8F	125	TTTT65AP-1XR	109
RRUS	125	TTTT65AP-1XR	109
RRUS	125	TTTT65AP-1XR	109
RRUS	125	FZHJ-RRH	109
Side Arm Mount [SO 102-1]	125	FZHJ-RRH	109
(2) 731DG65VTAXM	123	FZHJ-RRH	109
(2) 731DG65VTAXM	123	Platform Mount [LP 303-1]	109
(2) 731DG65VTAXM	123	3" Dia 20' Omni	64
(2) TMA	123		

MATERIAL STRENGTH

GRADE	Fy	Fu	GRADE	Fy	Fu
A572-65	65 ksi	80 ksi	Re-		

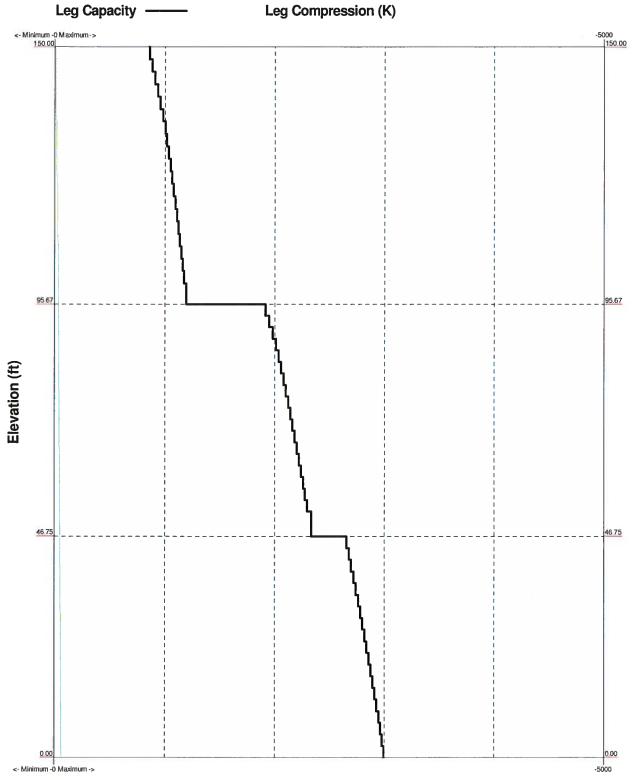
TOWER DESIGN NOTES

- 1. Tower is located in Johnson County, Kansas.
 2. Tower designed for Exposure B to the TIA-222-G Standard.
 3. Tower designed for a 90 mph basic wind in accordance with the TIA-222-G Standard.
 4. Tower is also designed for a 40 mph basic wind with 1.00 in ice. ice is considered to increase in thickness with height.
 5. Deflections are based upon a 60 mph wind.
 6. Tower Structure Class II.
 7. Topographic Category 1 with Crost Height of 0.00 ft.

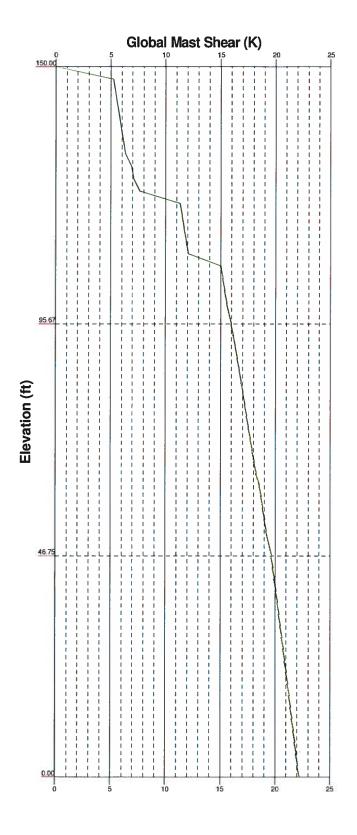
- 7. Topographic Category 1 with Crest Height of 0.00 ft 8. TOWER RATING: 94.8%

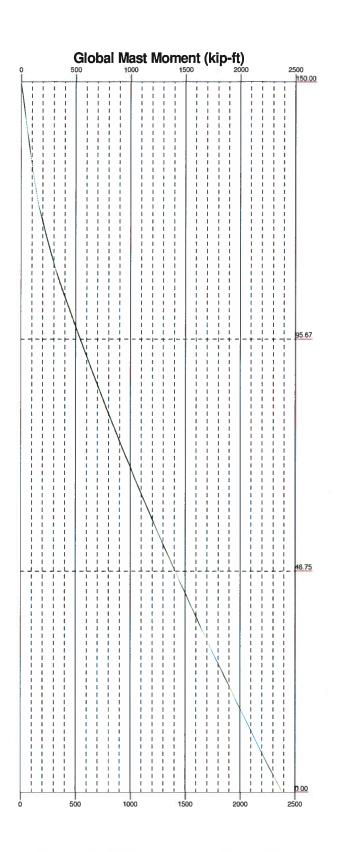
SSC	^{Job:} KS-0394-A				
9900 W 109th St #300	Project: Prairie VIII	age City Monopole			
Overland Park, KS 66210	COR A	Drawn by: Brennan Sedlacek	App'd:		
Phone: (913) 438-7700		Date: 03/07/14	Scale: NTS		
FAX:	Path: O:\Tower Analysis\K\$	5-0394\KS-0394-Atmx Analysis\KS-0394-A.er	Dwg No. E-1		

TIA-222-G - 90 mph/40 mph 1.0000 in Ice Exposure B
Leg Compression (K)

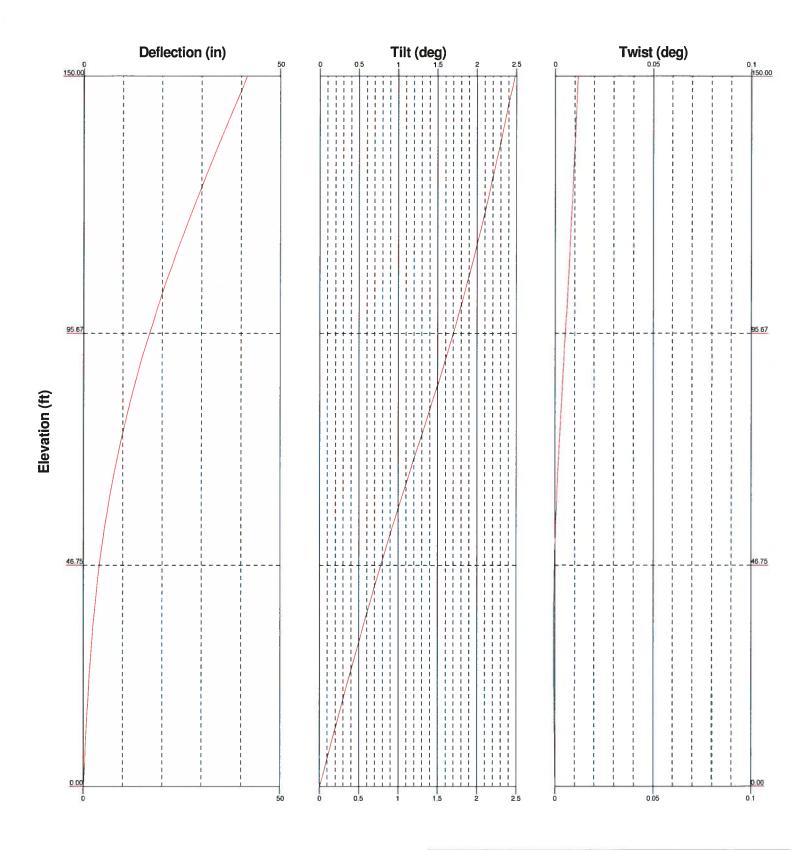


SSC	^{Job:} KS-0394-A		4
9900 W 109th St #300	Project: Prairie VIIIa	age City Monopole	
Overland Park, KS 66210	^{Client:} Sprint	Drawn by: Brennan Sediacek	App'd:
Phone: (913) 438-7700	Code: TIA-222-G	Date: 03/07/14	Scale: NTS
FAX:	Path: O:\Tower Analysis\KS	6-0394\KS-0394-A\tnx Analysis\KS-0394-A.en	Dwg No. E-3



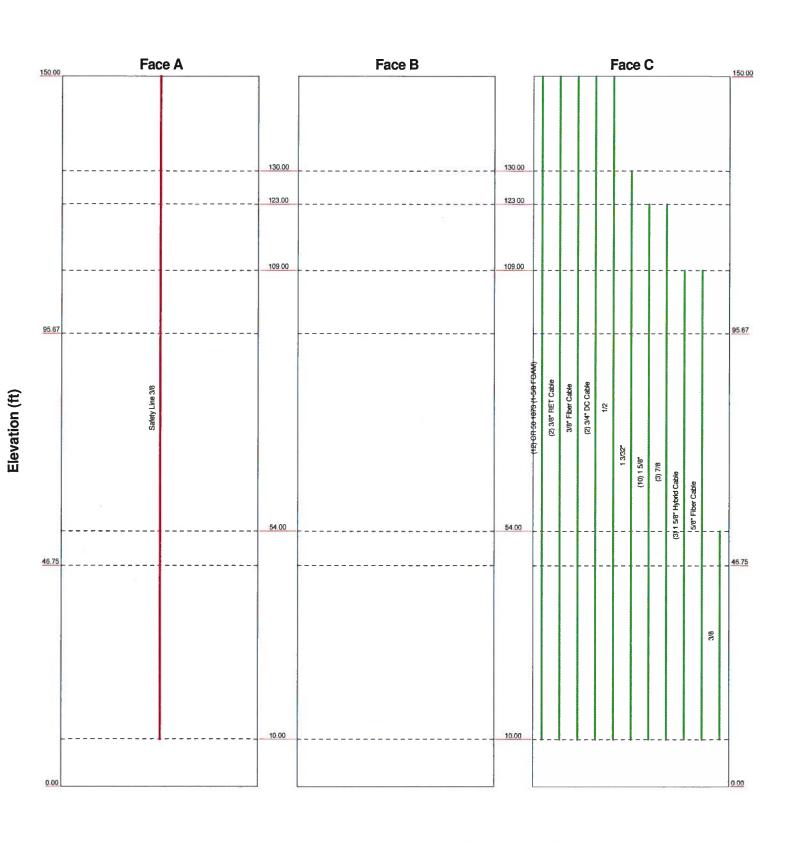






SSC	^{Job:} KS-0394-A				
9900 W 109th St #300	Project: Prairie Villa	age City Monopole			
Overland Park, KS 66210		Drawn by: Brennan Sedlacek	App'd:		
Phone: (913) 438-7700	Code: TIA-222-G		Scale: NTS		
	Path: O:\Tower Analysis\KS	-0394/KS-0394-Attnx Analysis/KS-0394-A er	Dwg No. E-5		

______ Round ______ Flat ______ App In Face _____ App Out Face _____ Truss Leg



SSC	lob: KS-0394-A			
	Project: Prairie Village City Monopole			
Overland Park, KS 66210		Drawn by: Brennan Sedlacek	App'd:	
Phone: (913) 438-7700	Code: TIA-222-G	Date: 03/07/14	Scale: NTS	
FAX:	Path: O:\Tower Analysis\K\$	5-0394\KS-0394-A\tnx Analysis\KS-0394-A.en	Dwg No. E-7	

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Overland Park, KS 66210 Phone: (913) 438-7700 FAY:	Client	Sprint	Designed by Brennan Sedlacek

Tower Input Data

There is a pole section.

This tower is designed using the TIA-222-G standard.

The following design criteria apply:

FAX:

Tower is located in Johnson County, Kansas.

Basic wind speed of 90 mph.

Structure Class II.

Exposure Category B.

Topographic Category 1.

Crest Height 0.00 ft.

Nominal ice thickness of 1.0000 in.

Ice thickness is considered to increase with height.

Ice density of 56 pcf.

A wind speed of 40 mph is used in combination with ice.

Temperature drop of 50 °F.

Deflections calculated using a wind speed of 60 mph.

A non-linear (P-delta) analysis was used.

Pressures are calculated at each section.

Stress ratio used in pole design is 1.

Local bending stresses due to climbing loads, feed line supports, and appurtenance mounts are not considered.

Options

Consider Moments - Legs Consider Moments - Horizontals Consider Moments - Diagonals Use Moment Magnification

- Use Code Stress Ratios
- Use Code Safety Factors Guys Escalate Ice Always Use Max Kz Use Special Wind Profile
- √ Include Bolts In Member Capacity Leg Bolts Are At Top Of Section Secondary Horizontal Braces Leg Use Diamond Inner Bracing (4 Sided) Add IBC .6D+W Combination

Distribute Leg Loads As Uniform Assume Legs Pinned

- Assume Rigid Index Plate
- Use Clear Spans For Wind Area Use Clear Spans For KL/r Retension Guys To Initial Tension
- Bypass Mast Stability Checks
- Use Azimuth Dish Coefficients
- Project Wind Area of Appurt. Autocalc Torque Arm Areas SR Members Have Cut Ends Sort Capacity Reports By Component Triangulate Diamond Inner Bracing Use TIA-222-G Tension Splice Capacity Exemption

Treat Feedline Bundles As Cylinder Use ASCE 10 X-Brace Ly Rules Calculate Redundant Bracing Forces Ignore Redundant Members in FEA SR Leg Bolts Resist Compression All Leg Panels Have Same Allowable Offset Girt At Foundation

Consider Feedline Torque Include Angle Block Shear Check Poles

Include Shear-Torsion Interaction Always Use Sub-Critical Flow Use Top Mounted Sockets

Tapered Pole Section Geometry

Section	Elevation	Section Length	Splice Length	Number of	Top Diameter	Bottom Diameter	Wall Thickness	Bend Radius	Pole Grade
	ft	ft	ft	Sides	in	in	in	in	
LI	150.00-95.67	54.33	4.33	12	16.3500	26.1300	0.2188	4.0000	A572-65 (65 ksi)
L2	95.67-46.75	53.25	5.25	12	24.9125	34.5000	0.3125	4.0000	A572-65 (65 ksi)

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Section	Elevation ft	Section Length ft	Splice Length ft	Number of Sides	Top Diameter in	Bottom Diameter in	Wall Thickness in	Bend Radius in	Pole Grade
L3	46.75-0.00	52.00	· · · · · · · · · · · · · · · · · · ·	12	32.9298	42.2900	0.3438	4.0000	A572-65 (65 ksi)

		Tapered Pole Properties												
Section	Tip Dia. in	Area in²	I in⁴	r in	C in	I/C in³	J in⁴	It/Q in ²	w in	w/t				
L1	16.9268	11.3624	377.3931	5.7750	8.4693	44.5601	764.7007	5.5923	3.7956	17.351				
	27.0518	18.2512	1564.0656	9.2762	13.5353	115.5542	3169.2210	8.9827	6.4166	29.333				
L2	26.5990	24.7538	1912.0408	8.8068	12.9047	148.1665	3874.3131	12.1830	5.8391	18.685				
	35.7170	34.4012	5132.0854	12.2391	17.8710	287.1739	10398.9964	16.9312	8.4085	26.907				
L3	35.0698	36.0686	4888.5251	11.6658	17.0576	286.5891	9905.4772	17.7519	7.9039	22,993				
	43.7818	46.4293	10427.1099	15.0168	21.9062	475.9886	21128.1516	22.8511	10.4125	30.291				

Tower Elevation	Gusset Area (per face)	Gusset Thickness	Gusset Grade A	djust. Factor A _f	Adjust. Factor A _r	Weight Mult.	Double Angle Stitch Bolt Spacing Diagonals	Double Angle Stitch Bolt Spacing Horizontals
ft	fi²	in					in	in
L1 150.00-95.67			·	1	1	1		
L2 95.67-46.75				1	1	1		
L3 46.75-0.00				1	1	1		

Monopole Base Plate Data

Base Plate D	oto
	ala
Base plate is square	
Base plate is grouted	√
Anchor bolt grade	A615-75
Anchor bolt size	2.2500 in
Number of bolts	12
Embedment length	96.0000 in
$\mathbf{f_c}$	3 ksi
Grout space	2.5000 in
Base plate grade	A633-60
Base plate thickness	2.5000 in
Bolt circle diameter	50.2800 in
Outer diameter	56.2800 in
Inner diameter	24.0000 in
Base plate type	Plain Plate

Feed Line/Linear Appurtenances - Entered As Round Or Flat

Description	Sector	Component Type	Placement	Total Number	Number Per Row		Width or Diameter	Perimeter	Weight
			ft				in	in	plf
Safety Line 3/8	A	Surface Ar (CaAa)	150.00 - 10.00	1	1	0.000	0.3750		0.22

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Overland Park, KS 66210 Phone: (913) 438-7700	Client	Sprint	Designed by

Feed Line/Linear Appurtenances - Entered As Area

Description	Face or	Allow Shield	Component Type	Placement	Total Number		$C_A A_A$	Weight
	Leg		••	ft			ft²/ft	plf
CR 50 1873 (1-5/8	С	No	Inside Pole	150.00 - 10.00	12	No Ice	0.00	0.83
FOAM)						1/2" Ice	0.00	0.83
						1" Ice	0.00	0.83
3/8" RET Cable	C	No	Inside Pole	150.00 - 10.00	2	No Ice	0.00	0.54
						1/2" Ice	0.00	0.54
						1" Ice	0.00	0.54
3/8" Fiber Cable	C	No	Inside Pole	150.00 - 10.00	1	No Ice	0.00	0.00
						I/2" Ice	0.00	0.00
		47				1" Ice	0.00	0.00
3/4" DC Cable	C	No	Inside Pole	150.00 - 10.00	2	No Ice	0.00	0.00
						1/2" Ice	0.00	0.00
						1" Ice	0.00	0.00
1/2	C	No	Inside Pole	150.00 - 10.00	1	No Ice	0.00	0.25
						1/2" Ice	0.00	0.25
*						1" Ice	0.00	0.25
1 3/32"	С	No	Inside Pole	130.00 - 10.00	1	No Ice	0.00	0.00
						1/2" Ice	0.00	0.00
						1" Ice	0.00	0.00
1 5/8"	C	No	Inside Pole	123.00 - 10.00	10	No Ice	0.00	1.04
						1/2" Ice	0.00	1.04
						1" Ice	0.00	1.04
7/8	С	No	Inside Pole	123.00 - 10.00	3	No Ice	0.00	0.54
						1/2" Ice	0.00	0.54
						1" Ice	0.00	0.54
**								
1 5/8" Hybrid Cable	C	No	Inside Pole	109.00 - 10.00	3	No Ice	0.00	1.04
·						1/2" Ice	0.00	1.04
						1" Ice	0.00	1.04
5/8" Fiber Cable	C	No	Inside Pole	109.00 - 10.00	1	No Ice	0.00	0.00
						1/2" Ice	0.00	0.00
						1" Ice	0.00	0.00

3/8	C	No	Inside Pole	54.00 - 10.00	1	No Ice	0.00	0.40
						1/2" Ice	0.00	0.40
						1" Ice	0.00	0.40

Feed Line/Linear Appurtenances Section Areas

Tower Section	Tower Elevation	Face	A_R	A_F	C _A A _A In Face	C _A A _A Out Face	Weight
	ft		ft²	ft²	ft ²	ft²	K
L1	150.00-95.67	A	0.000	0.000	2.037	0.000	0.01
		В	0.000	0.000	0.000	0.000	0.00
		С	0.000	0.000	0.000	0.000	0.98
L2	95.67-46.75	Α	0.000	0.000	1.834	0.000	0.01
		В	0.000	0.000	0.000	0.000	0.00
		C	0.000	0.000	0.000	0.000	1.30
L3	46.75-0.00	Α	0.000	0.000	1.378	0.000	0.01
		В	0.000	0.000	0.000	0.000	0.00
		С	0.000	0.000	0.000	0.000	0.99

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Food Line/Linear	Amminutananaa	Castian Ava	A MARIA LAS
Feed Line/Linear	Appurtenances	Section Are	eas - with ice

Tower Section	Tower Elevation	Face or	lce Thickness	A_R	A_F	C _A A _A In Face	C _A A _A Out Face	Weight
	ft	Leg	in	ft²	ft²	ft²	ft²	K
L1 150.00-95.67	150.00-95.67	Α	2.278	0.000	0.000	26.790	0.000	0.41
		В		0.000	0.000	0.000	0.000	0.00
		C		0.000	0.000	0.000	0.000	0.98
L2	95.67-46.75	Α	2.158	0.000	0.000	24.119	0.000	0.37
		В		0.000	0.000	0.000	0.000	0.00
		C		0.000	0.000	0.000	0.000	1.30
L3 46.75-0.0	46.75-0.00	Α	1.927	0.000	0.000	17.240	0.000	0.25
		В		0.000	0.000	0.000	0.000	0.00
		C		0.000	0.000	0.000	0.000	0.99

Feed Line Center of Pressure

Section	Elevation	CP_X	CPz	CP _X Ice	CP _Z Ice
	ft	in	in	in	in
L1	150.00-95.67	-0.0469	-0.0271	-0.4265	-0.2462
L2	95.67-46.75	-0.0470	-0.0271	-0.4688	-0.2707
L3	46.75-0.00	-0.0362	-0.0209	-0.3735	-0.2157

Shielding Factor Ka

Tower	Feed Line	Description	Feed Line	Ka	Ka
Section	Record No.		Segment Elev.	No Ice	lce
L1	1	Safety Line 3/8	95.67 - 150.00	1.0000	1.0000
L2	1	Safety Line 3/8	46.75 - 95.67	1.0000	1.0000

Discrete Tower Loads

Description	Face or Leg	Offset Type	Offsets: Horz Lateral	Azimuth Adjustment	Placement		C _A A _A Front	C _A A _A Side	Weigh
			Vert fi ft	٥	ft		ft²	ft²	K
Lightning Rod	A	From Leg	0.00 0.00 2.00	0.0000	150.00	No Ice 1/2" Ice 1" Ice	0.25 0.66 0.97	0.25 0.66 0.97	0.03 0.03 0.04
* PiROD 12' Platform w /	Α	From Leg	0.00	0.0000	150.00	No Ice	26.30	26.30	1.92

SSC 9900 W 109th St #300 Overland Park, KS 66210 Phone: (913) 438-7700 FAX:

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Project		Date
	Prairie Village City Monopole	07:55:09 03/07/14
Client		Designed by
	Sprint	Brennan Sedlacek

Description	Face or	Offset Type	Offsets: Horz	Azimuth Adjustment	Placement		C _A A _A Front	C₄A₄ Side	Weigh
	Leg		Lateral						
			Vert ft	0	ft		ft²	fi²	K
			ft		Jί		Ji	Ji	Λ
handrails			<i>ft</i> 0.00			1/2" Ice	35.60	35.60	2.34
			1.50			I" Ice	44.90	44.90	2.76
XDUO6-80-R	Α	From Leg	3.00	0.0000	150.00	No Ice	9.05	5.57	0.05
			0.00			1/2" Ice	9.62	6.04	0.10
XDUO6-80-R	В	From Leg	0.00 3.00	0.0000	150.00	1" Ice No Ice	10.20 9.05	6.51 5.57	0.16 0.05
AD000-00-K	ь	1 Tolli Leg	0.00	0.0000	150.00	1/2" Ice	9.62	6.04	0.03
			0.00			1" Ice	10.20	6.51	0.16
XDUO6-80-R	С	From Leg	3.00	0.0000	150.00	No Ice	9.05	5.57	0.05
		Ü	0.00			1/2" Ice	9.62	6.04	0.10
			0.00			1" Ice	10.20	6.51	0.16
(4) TMA	Α	From Leg	3.00	0.0000	150.00	No Ice	1.69	0.85	0.02
			0.00			1/2" Ice	1.87	0.98	0.03
	_		0.00			1" Ice	2.05	1.13	0.05
(4) TMA	В	From Leg	3.00	0.0000	150.00	No Ice	1.69	0.85	0.02
			0.00			1/2" Ice	1.87	0.98	0.03
(4) TMA	С	From Leg	0.00 3.00	0.0000	150.00	1" Ice No Ice	2.05 1.69	1.13 0.85	0.05 0.02
(4) 1141A	C	110111 Leg	0.00	0.0000	150.00	1/2" Ice	1.87	0.83	0.02
			0.00			1" Ice	2.05	1.13	0.05
P65-17-XLH-RR w/ Pipe	Α	From Leg	3.00	0.0000	150.00	No Ice	11.47	8.58	0.10
Mount	• • •	205	0.00	0.0000		1/2" Ice	12.08	9.94	0.18
			0.00			1" Ice	12.71	11.08	0.27
9442 RRH2X40-07-L	Α	From Leg	3.00	0.0000	150.00	No Ice	2.12	1.77	0.06
		•	0.00			1/2" Ice	2.32	1.97	0.08
			0.00			1" Ice	2.54	2.17	0.10
800 10765	В	From Leg	3.00	0.0000	150.00	No Ice	8.66	4.99	0.05
			0.00			1/2" Ice	9.23	5.46	0.10
	_		0.00			1" Ice	9.81	5.93	0.16
9442 RRH2X40-07-L	В	From Leg	3.00	0.0000	150.00	No Ice	2.12	1.77	0.06
			0.00			1/2" Ice	2.32	1.97	0.08
800 10766	С	Enom Lon	0.00	0.0000	150.00	1" Ice	2.54	2.17	0.10
800 10700	C	From Leg	3.00 0.00	0.0000	150.00	No Ice 1/2" Ice	11.31 11.93	6.80 7.38	0.06 0.12
			0.00			1" Ice	12.55	7.56 7.98	0.12
DC6-48-60-18-8F	С	From Leg	3.00	0.0000	150.00	No Ice	1.47	1.47	0.02
200 10 00 10 01	Ŭ	Trom Log	0.00	0.0000	150.00	1/2" Ice	1.67	1.67	0.04
			0.00			1" Ice	1.88	1.88	0.06
9442 RRH2X40-07-L	В	From Leg	3.00	0.0000	150.00	No Ice	2.12	1.77	0.06
			0.00			1/2" Ice	2.32	1.97	0.08
			0.00			1" Ice	2.54	2.17	0.10
SBNH-1D6565C	Α	From Leg	3.00	0.0000	150.00	No Ice	11.45	7.70	0.07
			0.00			1/2" Ice	12.06	8.29	0.13
	_	_	0.00	15		1" Ice	12.69	8.89	0.21
SBNH-1D6565C	В	From Leg	3.00	0.0000	150.00	No Ice	11.45	7.70	0.07
			0.00			1/2" Ice	12.06	8.29	0.13
CDNIII 1DCECEC	0	P	0.00	0.0000	150.00	1" Ice	12.69	8.89	0.21
SBNH-1D6565C	С	From Leg	3.00	0.0000	150.00	No Ice	11.45	7.70	0.07
			0.00 0.00			1/2" Ice 1" Ice	12.06 12.69	8.29 8.89	0.13
12"x12"	С	From Leg	3.00	0.0000	150.00	No Ice	1.40	1.40	0.21 0.03
1 % A 1 %	-	. Tom Leg	0.00	0.0000	150.00	1/2" Ice	1.56	1.56	0.05
			0.00			1" Ice	1.73	1.73	0.05
**									
Pipe Mount [PM 601-1]	Α	From Leg	0.00	0.0000	130.00	No Ice	3.00	0.90	0.07
•		-	0.00			1/2" Ice	3.74	1.12	0.08

SSC 9900 W 109th St #300 Overland Park, KS 66210 Phone: (913) 438-7700 FAX:

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Project	Prairie Village City Monopole	Date 07:55:09 03/07/14
Client	Traine vinage only Monopole	
	Sprint	Designed by Brennan Sedlacek

Description	Face or	Offset Type	Offsets: Horz	Azimuth Adjustment	Placement		$C_A A_A$ Front	C _A A _A Side	Weight
	Leg		Lateral Vert						
			ft	0	fi		ft^2	ft²	K
			ft		-				
***			ft						
Side Arm Mount [SO 102-1]	Α	From Leg	0.00	0.0000	125.00	No Ice	1.50	1.50	0.03
_			0.00			1/2" Ice	1.74	1.75	0.04
			0.00			1" Ice	1.98	2.00	0.04
DC6-48-60-18-8F	В	From Leg	1.00	0.0000	125.00	No Ice	1.47	1.47	0.02
			0.00			1/2" Ice	1.67	1.67	0.04
phile	A	Enorm I on	0.00	0.0000	125.00	1" Ice No Ice	1.88	1.88	0.06
RRUS	Α	From Leg	1.00 0.00	0.0000	125.00	1/2" Ice	3.79 4.05	1.51 1.69	0.06 0.08
			0.00			1" Ice	4.32	1.89	0.08
RRUS	В	From Leg	1.00	0.0000	125.00	No Ice	3.79	1.51	0.11
11100	_		0.00	0.0000	125.00	1/2" Ice	4.05	1.69	0.08
			0.00			1" Ice	4.32	1.89	0.11
RRUS	C	From Leg	1.00	0.0000	125.00	No Ice	3.79	1.51	0.06
		_	0.00			1/2" Ice	4.05	1.69	0.08
			0.00			1" Ice	4.32	1.89	0.11

PiROD 12' Platform w /	Α	From Leg	0.00	0.0000	123.00	No Ice	26.30	26.30	1.92
handrails			0.00			1/2" Ice	35.60	35.60	2.34
(2) 731DG65VTAXM	Α	From Leg	1.50 2.50	0.0000	122.00	1" Ice No Ice	44.90	44.90 3.27	2.76
(2) 731DG03 V TAXIVI	A	Fiolii Leg	0.00	0.0000	123.00	1/2" Ice	6.07 6.47	3.63	0.02 0.06
			0.00			1" Ice	6.87	4.00	0.10
(2) 731DG65VTAXM	В	From Leg	2.50	0.0000	123.00	No Ice	6.07	3.27	0.02
(=,	_		0.00	0.0000	120.00	1/2" Ice	6.47	3.63	0.06
			0.00			1" Ice	6.87	4.00	0.10
(2) 731DG65VTAXM	C	From Leg	2.50	0.0000	123.00	No Ice	6.07	3.27	0.02
			0.00			1/2" Ice	6.47	3.63	0.06
			0.00			1" Ice	6.87	4.00	0.10
(2) TMA	Α	From Leg	2.50	0.0000	123.00	No Ice	1.69	0.85	0.02
			0.00			1/2" Ice	1.87	0.98	0.03
(2) Th (A	D	F I	0.00	0.0000	122.00	1" Ice	2.05	1.13	0.05
(2) TMA	В	From Leg	2.50 0.00	0.0000	123.00	No Ice	1.69	0.85	0.02
			0.00			1/2" Ice 1" Ice	1.87 2.05	0.98 1.13	0.03
(2) TMA	С	From Leg	2.50	0.0000	123.00	No Ice	1.69	0.85	0.05 0.02
(2) 111111	-	I Tom Leg	0.00	0.0000	125.00	1/2" Ice	1.87	0.98	0.02
			0.00			1" Ice	2.05	1.13	0.05
BXA-70063-8CF-EDIN-X	Α	From Leg	2.50	0.0000	123.00	No Ice	10.67	6.07	0.02
		•	0.00			1/2" Ice	11.27	6.64	0.08
			0.00			1" Ice	11.89	7.22	0.14
BXA-70063-8CF-EDIN-X	В	From Leg	2.50	0.0000	123.00	No Ice	10.67	6.07	0.02
			0.00			1/2" Ice	11.27	6.64	0.08
DV 4 700/2 0/05 EDIN V	0	F 1	0.00	0.0000	102.00	1" Ice	11.89	7.22	0.14
BXA-70063-8CF-EDIN-X	С	From Leg	2.50	0.0000	123.00	No Ice	10.67	6.07	0.02
			0.00 0.00			1/2" Ice	11.27	6.64	0.08
BXA-171063-12CF-EDIN-X	Α	From Leg	2.50	0.0000	123.00	1" Ice No Ice	11.89 4.79	7.22 3.62	0.14 0.02
1,1000 1201 LD1117A		1 TOTAL LUE	0.00	0.0000	123.00	1/2" Ice	5.24	4.06	0.02
			0.00			1" Ice	5.70	4.50	0.04
BXA-171063-12CF-EDIN-X	В	From Leg	2.50	0.0000	123.00	No Ice	4.79	3.62	0.02
		J	0.00			1/2" Ice	5.24	4.06	0.04
			0.00			1" Ice	5.70	4.50	0.08
BXA-171063-12CF-EDIN-X	C	From Leg	2.50	0.0000	123.00	No Ice	4.79	3.62	0.02
			0.00			1/2" Ice	5.24	4.06	0.04
مة ماد والدوال			0.00			1" Ice	5.70	4.50	0.08

SSC 9900 W 109th St #300 Overland Park, KS 66210 Phone: (913) 438-7700 FAX:

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Project		Date
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Client		Designed by
	Sprint	Brennan Sedlacek

Description	Face or	Offset Type	Offsets: Horz	Azimuth Adjustment	Placement		C _A A _A Front	C _A A _A Side	Weigl
	Leg		Lateral						
			Vert fi	o	ft		ft²	ft ²	K
			ft ft		,		,	,	
latform Mount [LP 303-1]	Α	From Leg	0.00	0.0000	109.00	No Ice	14.66	14.66	1.25
			0.00			1/2" Ice	18.87	18.87	1.48
A DVIVED DAG C		Б. т	1.50	0.0000	***	1" Ice	23.08	23.08	1.71
APXVERR18-C	Α	From Leg	2.50 0.00	0.0000	109.00	No Ice 1/2" Ice	8.26 8.81	5.28	0.06
			0.00			1" Ice	9.36	5.74 6.20	0.11 0.16
APXVERR18-C	В	From Leg	2.50	0.0000	109.00	No Ice	8.26	5.28	0.06
		· ·	0.00			1/2" Ice	8.81	5.74	0.11
			0.00			1" Ice	9.36	6.20	0.16
APXVERR18-C	С	From Leg	2.50	0.0000	109.00	No Ice	8.26	5.28	0.06
			0.00 0.00			1/2" Ice 1" Ice	8.81 9.36	5.74 6.20	0.11 0.16
(2) RRUS	Α	From Leg	2.50	0.0000	109.00	No Ice	3.79	1.51	0.16
(2) 1(1(0)	7.	r rom Leg	0.00	0.0000	102.00	1/2" Ice	4.05	1.69	0.08
			0.00			1" Ice	4.32	1.89	0.11
(2) RRUS	В	From Leg	2.50	0.0000	109.00	No Ice	3.79	1.51	0.06
			0.00			1/2" Ice	4.05	1.69	0.08
(2) DDIIC	С	From Los	0.00	0.0000	100.00	1" Ice No Ice	4.32	1.89	0.11
(2) RRUS	C	From Leg	2.50 0.00	0.0000	109.00	No Ice	3.79 4.05	1.51 1.69	0.06
			0.00			1" Ice	4.32	1.89	0.11
(2) RRUS A2 Module	Α	From Leg	2.50	0.0000	109.00	No Ice	1.87	0.42	0.02
			0.00			1/2" Ice	2.05	0.53	0.03
	_		0.00			1" Ice	2.24	0.65	0.04
(2) RRUS A2 Module	В	From Leg	2.50	0.0000	109.00	No Ice	1.87	0.42	0.02
			0.00			1/2" Ice 1" Ice	2.05 2.24	0.53 0.65	0.03 0.04
(2) RRUS A2 Module	С	From Leg	2.50	0.0000	109.00	No Ice	1.87	0.63	0.04
(-)		7 70 III 20g	0.00	0.0000	.07.00	1/2" Ice	2.05	0.53	0.03
			0.00			1" Ice	2.24	0.65	0.04
DC6-48-60-18-8F	Α	From Leg	2.50	0.0000	109.00	No Ice	1.47	1.47	0.02
			0.00			1/2" Ice	1.67	1.67	0.04
DC6-48-60-18-8F	В	From Leg	0.00 2.50	0.0000	109.00	1" Ice No Ice	1.88 1.47	1.88 1.47	0.06
DC0-40-00-10-01	D	1 Ioni Leg	0.00	0.0000	109.00	1/2" Ice	1.67	1.67	0.02
			0.00			1" Ice	1.88	1.88	0.06
DC6-48-60-18-8F	C	From Leg	2.50	0.0000	109.00	No Ice	1.47	1.47	0.02
			0.00			1/2" Ice	1.67	1.67	0.04
TTTTCSAD IVD		Erom Loo	0.00	0.0000	100.00	1" Ice	1.88	1.88	0.06
TTTT65AP-1XR	Α	From Leg	2.50 0.00	0.0000	109.00	No Ice 1/2" Ice	7.37 7.87	3.48 3.88	0.03 0.07
			0.00			1" Ice	8.37	4.28	0.12
TTTT65AP-1XR	В	From Leg	2.50	0.0000	109.00	No Ice	7.37	3.48	0.03
		•	0.00			1/2" Ice	7.87	3.88	0.07
	_	_	0.00			1" Ice	8.37	4.28	0.12
TTTT65AP-1XR	С	From Leg	2.50	0.0000	109.00	No Ice	7.37	3.48	0.03
			0.00 0.00			1/2" Ice 1" Ice	7.87 8.37	3.88 4.28	0.07 0.12
FZHJ-RRH	Α	From Leg	2.50	0.0000	109.00	No Ice	1.47	1.18	0.12
			0.00			1/2" Ice	1.65	1.34	0.07
			0.00			1" Ice	1.83	1.50	0.09
FZHJ-RRH	В	From Leg	2.50	0.0000	109.00	No Ice	1.47	1.18	0.06
			0.00			1/2" Ice	1.65	1.34	0.07
FZHJ-RRH	С	From Leg	0.00 2.50	0.0000	109.00	1" Ice No Ice	1.83 1.47	1.50 1.18	0.09 0.06
1 2113-RR11	C	r tom neg	0.00	0.0000	105.00	1/2" Ice	1.47	1.18	0.06
			0.00			1" Ice	1.83	1.50	0.09

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Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert	Azimuth Adjustment	Placement		C _A A _A Front	C _A A _A Side	Weight
			fi fi fi	0	ft		ft²	ft²	K
****** 3" Dia 20' Omni	С	None		0.0000	64.00	No Ice	4.00	4.00	0.06
						1/2" Ice 1" Ice	6.00 8.00	6.00 8.00	0.10 0.14

	Dishes										
Description	Face or Leg	Dish Type	Offset Type	Offsets: Horz Lateral Vert	Azimuth Adjustment	3 dB Beam Width	Elevation	Outside Diameter		Aperture Area	Weight
				ft	۰	٥	ft	ft		ft ²	K
3' Dish w/o Radome	С	Paraboloid w/o	From	1.00	0.0000		130.00	3.00	No Ice	7.07	0.05
		Radome	Leg	0.00					1/2" Ice	7.47	0.12
				0.00					1" Ice	7.86	0.19

Load Combinations

Comb.	Description	
No.	•	
1	Dead Only	
2	1.2 Dead+1.6 Wind 0 deg - No Ice	
3	0.9 Dead+1.6 Wind 0 deg - No Ice	
4	1.2 Dead+1.6 Wind 30 deg - No Ice	
5	0.9 Dead+1.6 Wind 30 deg - No Ice	
6	1.2 Dead+1.6 Wind 60 deg - No Ice	
7	0.9 Dead+1.6 Wind 60 deg - No Ice	
8	1.2 Dead+1.6 Wind 90 deg - No Ice	
9	0.9 Dead+1.6 Wind 90 deg - No Ice	
10	1.2 Dead+1.6 Wind 120 deg - No Ice	
11	0.9 Dead+1.6 Wind 120 deg - No Ice	
12	1.2 Dead+1.6 Wind 150 deg - No Ice	
13	0.9 Dead+1.6 Wind 150 deg - No Ice	
14	1.2 Dead+1.6 Wind 180 deg - No Ice	
15	0.9 Dead+1.6 Wind 180 deg - No Ice	
16	1.2 Dead+1.6 Wind 210 deg - No Ice	
17	0.9 Dead+1.6 Wind 210 deg - No Ice	
18	1.2 Dead+1.6 Wind 240 deg - No Ice	
19	0.9 Dead+1.6 Wind 240 deg - No Ice	
20	1.2 Dead+1.6 Wind 270 deg - No Ice	
21	0.9 Dead+1.6 Wind 270 deg - No Ice	
22	1.2 Dead+1.6 Wind 300 deg - No Ice	
23	0.9 Dead+1.6 Wind 300 deg - No Ice	
24	1.2 Dead+1.6 Wind 330 deg - No Ice	
25	0.9 Dead+1.6 Wind 330 deg - No Ice	
26	1.2 Dead+1.0 Ice+1.0 Temp	
27	1.2 Dead+1.0 Wind 0 deg+1.0 Ice+1.0 Temp	
28	1.2 Dead+1.0 Wind 30 deg+1.0 Ice+1.0 Temp	

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Comb.	Description	
No.		
29	1.2 Dead+1.0 Wind 60 deg+1.0 Ice+1.0 Temp	
30	1.2 Dead+1.0 Wind 90 deg+1.0 Ice+1.0 Temp	
31	1.2 Dead+1.0 Wind 120 deg+1.0 Ice+1.0 Temp	
32	1.2 Dead+1.0 Wind 150 deg+1.0 Ice+1.0 Temp	
33	1.2 Dead+1.0 Wind 180 deg+1.0 Ice+1.0 Temp	
34	1.2 Dead+1.0 Wind 210 deg+1.0 Ice+1.0 Temp	
35	1.2 Dead+1.0 Wind 240 deg+1.0 Ice+1.0 Temp	
36	1.2 Dead+1.0 Wind 270 deg+1.0 Ice+1.0 Temp	
37	1.2 Dead+1.0 Wind 300 deg+1.0 Ice+1.0 Temp	
38	1.2 Dead+1.0 Wind 330 deg+1.0 Ice+1.0 Temp	
39	Dead+Wind 0 deg - Service	
40	Dead+Wind 30 deg - Service	
41	Dead+Wind 60 deg - Service	
42	Dead+Wind 90 deg - Service	
43	Dead+Wind 120 deg - Service	
44	Dead+Wind 150 deg - Service	
45	Dead+Wind 180 deg - Service	
46	Dead+Wind 210 deg - Service	
47	Dead+Wind 240 deg - Service	
48	Dead+Wind 270 deg - Service	
49	Dead+Wind 300 deg - Service	
50	Dead+Wind 330 deg - Service	

FAX:

Maximum Member Forces

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
L1	150 - 95.6667	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-34.43	0.82	11.51
			Max. Mx	8	-11.62	-469.88	12.48
			Max. My	2	-11'.62	-11.65	473.07
			Max. Vy	8	15.59	-469.88	12.48
			Max. Vx	2	-15.55	-11.65	473.07
			Max. Torque	8			2.41
L2	95.6667 - 46.75	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-47.03	1.40	13.46
			Max. Mx	8	-19.91	-1305.28	24.07
			Max. My	2	-19.91	-29.71	1306.56
			Max. Vy	8	19.20	-1305.28	24.07
			Max. Vx	2	-19.16	-29.71	1306.56
			Max. Torque	8			2.40
L3	46.75 - 0	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-63.64	1.86	14.26
			Max. Mx	8	-31.89	-2385.64	35.76
			Max. My	2	-31.89	-48.39	2384.79
			Max. Vy	8	22.22	-2385.64	35.76
			Max. Vx	2	-22.18	-48.39	2384.79
			Max. Torque	8			2.38

Maximum Reactions

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Location	Condition	Gov.	Vertical	Horizontal, X	Horizontal, 2
		Load	K	K	K
		Comb.			
Pole	Max. Vert	27	63.64	-0.05	4.21
	Max. H _x	20	31.92	22.05	-0.01
	Max. H _z	2	31.92	-0.34	22.13
	Max. Mx	2	2384.79	-0.34	22.13
	Max. Mz	8	2385.64	-22.17	0.21
	Max. Torsion	8	2.37	-22.17	0.21
	Min. Vert	5	23.94	-11.27	19.13
	Min. H _x	8	31.92	-22.17	0.21
	Min. Hz	14	31.92	0.05	-22.03
	Min. Mx	14	-2358.15	0.05	-22.03
	Min. Mz	20	-2368.42	22.05	-0.01
	Min. Torsion	20	-2.06	22.05	-0.01

Tower Mast Reaction Summary

Load Combination	Vertical	Shear _x	Shearz	Overturning	Overturning	Torque
Combination	K	K	K	Moment, M_x kip - ft	Moment, M _z kip-ft	kip-ft
Dead Only	26.60	0.00	-0.00	-4.88	-0.13	0.00
1.2 Dead+1.6 Wind 0 deg - No	31.92	0.34	-22.13	-2384.79	-48.39	-0.05
Ice						
0.9 Dead+1.6 Wind 0 deg - No	23.94	0.34	-22.13	-2337.85	-47.35	-0.06
Ice						
1.2 Dead+1.6 Wind 30 deg - No	31.92	11.27	-19.13	-2060.87	-1218.71	-1.12
Ice						
0.9 Dead+1.6 Wind 30 deg - No	23.94	11.27	-19.13	-2020.11	-1195.41	-1.11
Ice	21.02	10.05		400000		
1.2 Dead+1.6 Wind 60 deg - No	31.92	19.25	-11.14	-1205.07	-2073.12	-2.01
Ice 0.9 Dead+1.6 Wind 60 deg - No	23.94	19.25	-11.14	-1180.58	-2033.57	-1.99
lce	23.94	19.23	-11.14	-1180.38	-2033.37	-1.99
1.2 Dead+1.6 Wind 90 deg - No	31.92	22.17	-0.21	-35.76	-2385.64	-2.37
Ice	31.72	22.17	-0.21	-33.70	-2303.04	-2.57
0.9 Dead+1.6 Wind 90 deg - No	23.94	22.17	-0.21	-33.50	-2340.13	-2.34
Ice	23.51	22.17	0.21	33.30	25 10.15	2.5
1.2 Dead+1.6 Wind 120 deg -	31.92	19.31	10.77	1141.78	-2080.48	-1.97
No Ice						
0.9 Dead+1.6 Wind 120 deg -	23.94	19.31	10.77	1121.62	-2040.76	-1.93
No Ice						
1.2 Dead+1.6 Wind 150 deg -	31.92	10.95	19.01	2032.64	-1174.32	-0.90
No Ice						
0.9 Dead+1.6 Wind 150 deg -	23.94	10.95	19.01	1995.45	-1151.90	-0.87
No Ice						
1.2 Dead+1.6 Wind 180 deg -	31.92	-0.05	22.03	2358.15	6.32	0.33
No Ice	00.04	0.05	00.00	001476		0.04
0.9 Dead+1.6 Wind 180 deg - No Ice	23.94	-0.05	22.03	2314.76	6.24	0.34
1.2 Dead+1.6 Wind 210 deg -	31.92	-11.04	19.12	2048.31	1185.98	1.44
No Ice	31.92	-11.04	19.12	2040.31	1103.90	1.44
0.9 Dead+1.6 Wind 210 deg -	23.94	-11.04	19.12	2010.81	1163.42	1.43
No Ice	23.74	-11.04	17.12	2010.01	1103.42	1.42
1.2 Dead+1.6 Wind 240 deg -	31.92	-19.14	11.07	1184.25	2057.25	2.02
No Ice						2.02
0.9 Dead+1.6 Wind 240 deg -	23.94	-19.14	11.07	1163.21	2018.08	2.00
No Ice						
1.2 Dead+1.6 Wind 270 deg -	31.92	-22.05	0.01	-3.79	2368.42	2.06
No Ice						

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Client	0.1.	Designed by
	Sprint	Brennan Sedlacek

Load Combination	Vertical	Shearx	Shearz	Overturning Moment, M _x	Overturning Moment, M _z	Torque
	K	K	K	kip-ft	kip-ft	kip-ft
0.9 Dead+1.6 Wind 270 deg -	23.94	-22.05	0.01	-2.20	2323.34	2.02
No Ice						
1.2 Dead+1.6 Wind 300 deg -	31.92	-19.06	-10.97	-1182.34	2046.38	1.68
No Ice						
0.9 Dead+1.6 Wind 300 deg -	23.94	-19.06	-10.97	-1158.30	2007.44	1.65
No Ice						
1.2 Dead+1.6 Wind 330 deg -	31.92	-10.96	-19.01	-2044.01	1174.69	0.89
No Ice						
0.9 Dead+1.6 Wind 330 deg -	23.94	-10.96	-19.01	-2003.58	1152.37	0.86
No Ice						
1.2 Dead+1.0 Ice+1.0 Temp	63.64	-0.00	-0.00	-14.26	1.86	0.00
1.2 Dead+1.0 Wind 0 deg+1.0	63.64	0.05	-4.21	-548.99	-6.62	-0.00
Ice+1.0 Temp						
1.2 Dead+1.0 Wind 30 deg+1.0	63.64	2.14	-3.64	-476.37	-270.89	-0.38
Ice+1.0 Temp						
1.2 Dead+1.0 Wind 60 deg+1.0	63.64	3.66	-2.11	-283.27	-463.97	-0.68
Ice+I.0 Temp	(2.4	4.00	0.00	10.10		
1.2 Dead+1.0 Wind 90 deg+1.0	63.64	4.22	-0.03	-19.48	-534.63	-0.80
Ice+1.0 Temp	(2.64	2.67	2.06	045.70	465.00	0.60
1.2 Dead+1.0 Wind 120	63.64	3.67	2.06	245.72	-465.38	-0.68
deg+1.0 Ice+1.0 Temp 1.2 Dead+1.0 Wind 150	63.64	2.09	3.62	444.94	-263.15	-0.35
deg+1.0 Ice+1.0 Temp	03.04	2.09	3.02	444.94	-203.13	-0.33
1.2 Dead+1.0 Wind 180	63.64	-0.01	4.19	517.74	2.89	0.05
deg+1.0 Ice+1.0 Temp	03.04	-0.01	4.19	317.74	2.09	0.03
1.2 Dead+1.0 Wind 210	63.64	-2.10	3.64	447.64	268.80	0.44
deg+1.0 Ice+1.0 Temp	05.04	-2.10	5.04	447.04	200.00	0.44
1.2 Dead+1.0 Wind 240	63.64	-3.64	2.10	253.08	464.87	0.68
deg+1.0 Ice+1.0 Temp		2.0 (2.10	200.00	101.07	0.00
1.2 Dead+1.0 Wind 270	63.64	-4.20	0.00	-14.03	535.30	0.75
deg+1.0 Ice+1.0 Temp			****			0.75
1.2 Dead+1.0 Wind 300	63.64	-3.63	-2.09	-279.40	463.05	0.63
deg+1.0 Ice+1.0 Temp						
1.2 Dead+1.0 Wind 330	63.64	-2.09	-3.62	-473.43	267.00	0.36
deg+1.0 Ice+1.0 Temp						
Dead+Wind 0 deg - Service	26.60	0.09	-5.50	-590.77	-12.00	-0.02
Dead+Wind 30 deg - Service	26.60	2.80	-4.75	-511.03	-300.24	-0.29
Dead+Wind 60 deg - Service	26.60	4.79	-2.77	-300.26	-510.69	-0.51
Dead+Wind 90 deg - Service	26.60	5.51	-0.05	-12.25	-587.62	-0.60
Dead+Wind 120 deg - Service	26.60	4.80	2.68	277.75	-512.46	-0.50
Dead+Wind 150 deg - Service	26.60	2.72	4.73	497.09	-289.27	-0.22
Dead+Wind 180 deg - Service	26.60	-0.01	5.47	577.26	1.47	0.09
Dead+Wind 210 deg - Service	26.60	-2.74	4.75	500.98	291.98	0.37
Dead+Wind 240 deg - Service	26.60	-4.76	2.75	288.20	506.56	0.51
Dead+Wind 270 deg - Service	26.60	-5.48	0.00	-4.39	583.17	0.52
Dead+Wind 300 deg - Service	26.60	-4.74	-2.73	-294.62	503.86	0.42
Dead+Wind 330 deg - Service	26.60	-2.72	-4.72	-506.81	289.19	0.22

Solution Summary

	Sui	m of Applied Force.	5		Sum of Reaction	ons	
Load	PX	PY	PZ	PX	PY	PZ	% Error
Comb.	K	K	K	K	K	8 K	
1	0.00	-26.60	0.00	0.00	26.60	0.00	0.000%
2	0.34	-31.92	-22.13	-0.34	31.92	22.13	0.000%
3	0.34	-23.94	-22.13	-0.34	23.94	22.13	0.000%
4	11.27	-31.92	-19.13	-11.27	31.92	19.13	0.000%
5	11.27	-23.94	-19.13	-11.27	23.94	19.13	0.000%

Inx Tower Job KS-0394-A Page 12 of 15 SSC 9900 W 109th St #300 Project Date 07:55:09 03/07/14 Overland Park, KS 66210 Phone: (913) 438-7700 FAX: Client Sprint Designed by Brennan Sedlacek

	Su	m of Applied Force	s	···	Sum of Reaction	ıs	
Load	PX	PY	PZ	PX	PΥ	PZ	% Error
Comb.	K	K	K	K	K	K	
6	19.25	-31.92	-11.14	-19.25	31.92	11.14	0.000%
7	19.25	-23.94	-11.14	-19.25	23.94	11.14	0.000%
8	22.17	-31.92	-0.21	-22.17	31.92	0.21	0.000%
9	22.17	-23.94	-0.21	-22.17	23.94	0.21	0.000%
10	19.31	-31.92	10.77	-19.31	31.92	-10.77	0.000%
11	19.31	-23.94	10.77	-19.31	23.94	-10.77	0.000%
12	10.95	-31.92	19.01	-10.95	31.92	-19.01	0.000%
13	10.95	-23.94	19.01	-10.95	23.94	-19.01	0.000%
14	-0.05	-31.92	22.03	0.05	31.92	-22.03	0.000%
15	-0.05	-23.94	22.03	0.05	23.94	-22.03	0.000%
16	-11.04	-31.92	19.12	11.04	31.92	-19.12	0.000%
17	-11.04	-23.94	19.12	11.04	23.94	-19.12	0.000%
18	-19.14	-31.92	11.07	19.14	31.92	-11.07	0.000%
19	-19.14	-23.94	11.07	19.14	23.94	-11.07	0.000%
20	-22.05	-31.92	0.01	22.05	31.92	-0.01	0.000%
21	-22.05	-23.94	0.01	22.05	23.94	-0.01	0.000%
22	-19.06	-31.92	-10.97	19.06	31.92	10.97	0.000%
23	-19.06	-23.94	-10.97	19.06	23.94	10.97	0.000%
24	-10.96	-31.92	-19.01	10.96	31.92	19.01	0.000%
25	-10.96	-23.94	-19.01	10.96	23.94	19.01	0.000%
26	0.00	-63.64	0.00	0.00	63.64	0.00	0.000%
27	0.05	-63.64	-4.21	-0.05	63.64	4.21	0.000%
28	2.14	-63.64	-3.64	-2.14	63.64	3.64	0.000%
29	3.66	-63.64	-2.11	-3.66	63.64	2.11	0.000%
30	4.22	-63.64	-0.03	-4.22	63.64	0.03	0.000%
31	3.67	-63.64	2.06	-3.67	63.64	-2.06	0.000%
32	2.09	-63.64	3.62	-2.09	63.64	-3.62	0.000%
33	-0.01	-63.64	4.19	0.01	63.64	-4.19	0.000%
34	-2.10	-63.64	3.64	2.10	63.64	-3.64	0.000%
35	-3.64	-63.64	2.10	3.64	63.64	-2.10	0.000%
36	-4.20	-63.64	0.00	4.20	63.64	-0.00	0.000%
37	-3.63	-63.64	-2.09	3.63	63.64	2.09	0.000%
38	-2.09	-63.64	-3.62	2.09	63.64	3.62	0.000%
39	0.09	-26.60	-5.50	-0.09	26.60	5.50	0.000%
40	2.80	-26.60	-4.75	-2.80	26.60	4.75	0.000%
41	4.79	-26.60	-2.77	-4.79	26.60	2.77	0.000%
42	5.51	-26.60	-0.05	-5.51	26.60	0.05	0.000%
43	4.80	-26.60	2.68	-4.80	26.60	-2.68	0.000%
44	2.72	-26.60	4.73	-2.72	26.60	-4.73	0.000%
45	-0.01	-26.60	5.47	0.01	26.60	-5.47	0.000%
46	-2.74	-26.60	4.75	2.74	26.60	-4.75	0.000%
47	-4.76	-26.60	2.75	4.76	26.60	-2.75	0.000%
48	-5.48	-26.60	0.00	5.48	26.60	-0.00	0.000%
49	-4.74	-26.60	-2.73	4.74	26.60	2.73	0.000%
50	-2.72	-26.60	-4.72	2.72	26.60	4.72	0.000%

Non-Linear Convergence Results

Load	Converged?	Number	Displacement	Force
Combination		of Cycles	Tolerance	Tolerance
1	Yes	4	0.00000001	0.00000001
2	Yes	5	0.0000001	0.00040075
3	Yes	5	0.0000001	0.00017125
4	Yes	6	0.00000001	0.00056007
5	Yes	6	0.0000001	0.00016192
6	Yes	6	0.0000001	0.00058927

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SSC 9900 W 1091h St #300	Project	Prairie Village City Monopole	Date 07:55:09 03/07/14	
Overland Park, KS 66210 Phone: (913) 438-7700 FAX:	Client	Sprint	Designed by Brennan Sedlacek	

7	Yes	6	0.00000001	0.00017260
8	Yes	5	0.0000001	0.00077945
9	Yes	5	0.0000001	0.00033540
10	Yes	6	0.0000001	0.00052858
11	Yes	6	0.00000001	0.00015516
12	Yes	6	0.00000001	0.00055599
13	Yes	6	0,0000001	0.00016492
14	Yes	5	0.00000001	0.00012213
15	Yes	5	0.00000001	0.00005445
16	Yes	6	0.00000001	0.00056877
17	Yes	6	0.00000001	0.00016832
18	Yes	6	0.00000001	0.00053718
19	Yes	6	0.00000001	0.00015677
20	Yes	5	0.0000001	0.00045008
21	Yes	5	0.00000001	0.00019173
22	Yes	6	0.0000001	0.00057285
23	Yes	6	0.00000001	0.00016913
24	Yes	6	0.0000001	0.00054534
25	Yes	6	0.0000001	0.00015996
26	Yes	5	0.0000001	0.00006263
27	Yes	6	0.00015835	0.00031014
28	Yes	6	0.00015740	0.00051446
29	Yes	6	0.00015710	0.00054847
30	Yes	6	0.00015776	0.00031707
31	Yes	6	0.00015679	0.00042932
32	Yes	6	0.00015639	0.00045373
33	Yes	6	0.00015703	0.00027816
34	Yes	6	0.00015636	0.00046844
35	Yes	6	0.00015678	0.00044060
36	Yes	6	0.00015782	0.00031366
37	Yes	6	0.00015719	0.00054138
38	Yes	6	0.00015749	0.00050696
39	Yes	4	0.0000001	0.00050347
40	Yes	5	0.0000001	0.00014298
41	Yes	5	0.0000001	0.00016520
42	Yes	4	0.0000001	0.00071370
43	Yes	5	0.0000001	0.00011778
44	Yes	5	0.00000001	0.00013612
45	Yes	4	0.0000001	0.00046156
46	Yes	5 5	0.0000001	0.00014412
47	Yes	5	0.0000001	0.00012185
48	Yes	4	0.00000001	0.00062509
49	Yes	5	0.00000001	0.00015458
50	Yes	5	0.0000001	0.00013475

				Base I	Plate De	sign Da	ıta	
Plate	Number	Anchor Bolt	Actual	Actual	Actual	Actual	Controlling	Critical
Thickness	of Anchor Bolts	Size	Allowable	Allowable	Allowable	Allowable	Condition	Ratio
	Dous		Ratio	Ratio	Ratio	Ratio		
			Bolt	Concrete	Plate	Stiffener		
			Tension	Stress	Stress	Stress		
			K	ksi	ksi	ksi		
in		in	N.					
2.5000	12	2.2500	143.76	2.250	35.230		Conc fc	0.74
			223.65	3.060	54.000			
			0.64	0.74	0.65			•

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Overland Park, KS 66210 Phone: (913) 438-7700 FAX:	Client	Sprint	Designed by Brennan Sedlacek

Compression Checks

	Pole Design Data								
Section No.	Elevation	Size	L	Lu	Kl/r	Α	P_u	ϕP_n	Ratio Pu
	fi		ft	ft		in^2	K	K	ϕP_n
L1	150 - 95.6667 (1)	TP26.13x16.35x0.2188	54.33	0.00	0.0	17.7018	-11.61	1175.20	0.010
L2	95.6667 - 46.75 (2)	TP34.5x24.9125x0.3125	53.25	0.00	0.0	33.4500	-19.90	2295.58	0.009
L3	46.75 - 0 (3)	TP42.29x32.9298x0.3438	52.00	0.00	0.0	46.4293	-31.88	2995.16	0.011

	Pole Bending Design Data								
Section No.	Elevation	Size	M _{ux}	ϕM_{nx}	Ratio M _{ux}	Muy	ϕM_{ny}	Ratio M _{uy}	
	ft		kip-ft	kip-ft	ϕM_{nx}	kip-ft	kip-ft	ϕM_{ny}	
L1	150 - 95.6667 (1)	TP26.13x16.35x0.2188	474.97	601.22	0.790	0.00	601.22	0.000	
L2	95.6667 - 46.75 (2)	TP34.5x24.9125x0.3125	1313.80	1552.37	0.846	0.00	1552.37	0.000	
L3	46.75 - 0 (3)	TP42.29x32.9298x0.3438	2397.93	2558.84	0.937	0.00	2558.84	0.000	

	Pole Shear Design Data									
Section No.	Elevation	Size	Actual V _u	ϕV_n	Ratio V _u	Actual T _u	φT _n	Ratio T _u		
	ft		K	K	ϕV_n	kip-ft	kip-ft	ϕT_n		
Ll	150 - 95.6667 (1)	TP26.13x16.35x0.2188	15.63	587.60	0.027	1.13	1219.09	0.001		
L2	95.6667 - 46.75 (2)	TP34.5x24.9125x0.3125	19.28	1147.79	0.017	2.02	3147.72	0.001		
L3	46.75 - 0 (3)	TP42.29x32.9298x0.3438	22.29	1497.58	0.015	2.01	5188.53	0.000		

	Pole Interaction Design Data									
Section No.	Elevation	Ratio P _u	Ratio Mux	Ratio Muy	Ratio V _u	Ratio T _u	Comb. Stress	Allow. Stress	Criteria	
	ft	ϕP_n	ϕM_{nx}	ϕM_{nv}	ϕV_n	ϕT_n	Ratio	Ratio		
L1	150 - 95.6667 (1)	0.010	0.790	0.000	0.027	0.001	0.801	1.000	4.8.2	
L2	95.6667 - 46.75 (2)	0.009	0.846	0.000	0.017	0.001	0.855	1.000	4.8.2	

Are no Tonus are	Job		Page
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SSC	Project		Date
9900 W 109th St #300		Prairie Village City Monopole	07:55:09 03/07/14
Overland Park, KS 66210	Client		Designed by
Phone: (913) 438-7700		Sprint	Brennan Sedlacek

Section No.	Elevation	Ratio P _u	Ratio M _{ux}	Ratio M _{uy}	Ratio V _u	Ratio T _u	Comb. Stress	Allow. Stress	Criteria
	ft	ϕP_n	ϕM_{nx}	ϕM_{ny}	ϕV_n	ϕT_n	Ratio	Ratio	
L3	46.75 - 0 (3)	0.011	0.937	0.000	0.015	0.000	0.948	1.000	4.8.2

	Section Capacity Table									
Section No.	Elevation ft	Component Type	Size	Critical Element	P K	øP _{allow} K	% Capacity	Pass Fail		
Ll	150 - 95.6667	Pole	TP26.13x16.35x0.2188	1	-11.61	1175.20	80.1	Pass		
L2	95.6667 - 46.75	Pole	TP34.5x24.9125x0.3125	2	-19.90	2295.58	85.5	Pass		
L3	46.75 - 0	Pole	TP42.29x32.9298x0.3438	3	-31.88	2995.16	94.8	Pass		
							Summary			
						Pole (L3)	94.8	Pass		
						Base Plate	73.5	Pass		
						RATING =	94.8	Pass		

 $Program\ Version\ 6.1.4.1\ -\ 12/17/2013\ File: O:/ Tower\ Analysis/KS-0394/KS-0394-A/tnx\ Analysis/KS-0394-A.eri$



PROJECT:

2.5 EQUIPMENT DEPLOYMENT

SITE NAME:

PRAIRIE VILLAGE CITY

MONOPOLE

SITE CASCADE:

KC60XC727

SITE ADDRESS:

7700 MISSION ROAD

PRAIRIE VILLAGE, KS 66208

SITE TYPE:

150'-0" MONOPOLE





SPRINT AND MAY
EMINATED OR
THE EXPRESS

_11	<u></u>		_	
7	REVISIONS: DESCRIPTION	DATE	BY	REV
-	ISSUED FOR REVIEW	03/12/14		0
		1		\vdash
41				
-11		-		-

LAGE POLE

ROAD GE, KS

1				***************************************	7. \ \ \ \ \
SITE INFORMATION	AREA MAP	PROJECT DESCRIPTION	DRAWING INDEX		ENGINEERING LICENSE: ",, U STATE OF KANSAS PE CERTIFICATE OF AUTHORIZATION
PROPERTY OWNER: CITY OF PRAIRIE VILLAGE	Weight in the second of the se	INSTALL (1) UADU BBU KIT IN MMBS CABINET INSTALL (4) BATTERIES IN POWER CABINET INSTALL (3) PANEL ANTENNAS	SHEET NO: SHEET TITLE T-1 TITLE SHEET SP-1 SPECIFICATIONS	REV ENGINEER 0 SC/E 0 SC	ENCINEER: MLO MICHAEL L. OWENS 16917 STRUCTURAL/CMIL SC KY KEVIN VANIMALE 22105 STRUCTURAL/CMIL SC REJ ROBERT E. JENSEN 16098 STRUCTURAL/CMIL SC
LATITUDE (NAD83): 38: 59' 21.9978" N 38.989444"	W Full-SI - Stage W Full	INSTALL (3) RRUS INSTALL (3) RF FILTERS INSTALL (27) JUMPERS INSTALL (1) FIBER ONLY CABLE	SP-2 SPECIFICATIONS A-1 EQUIPMENT PLAN A-2 TOWER ELEVATION & CABLE PLAN A-3 ANTENNA LAYOUT & MOUNTING DETAILS A-4 RF DATA SHEET & EQUIPMENT INFORMAT	0 SC	TMS TERRANCE M. SUPER 9250 ELECTRICAL E SDK SHELTON D. KEISLING 13694 ELECTRICAL E
LONGITUDE (NAD83): 94° 37' 53.0034" W -94.63139' COUNTY:	The state of the s	THORE (1) THE USE	A-4 RF DATA SHEET & EQUIPMENT INFORMAT A-5 EQUIPMENT DETAILS A-6 EQUIPMENT DETAILS E-1 GROUNDING PLAN E-2 GROUNDING DETAILS	0 SC 0 SC 0 E	THESE DOCUMENTS ARE CONFIDE ARE THE SOLE PROPERTY OF SPRIN NOT BE REPRODUCED, DISSEMIN REDISTRIBUTED WITHOUT THE E WRITTEN CONSENT OF SPRI
JOHNSON, KS ZONING JURISDICTION: CITY OF PRAIRIE VILLAGE ZONING DISTRICT: R-1A			E-3 DC POWER & DISTRIBUTION	0 E	REVISIONS: DESCRIPTION DA ISSUED FOR REVIEW 03/1
POWER COMPANY:	LOCATION MAP	APPLICABLE CODES			SITE NAME:
AAV PROVIDER: AT&T SPRINT CM:	7.750h. St.	ALL WORK SHALL BE PERFORMED AND MATERIALS INSTALL IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE FOLLOWING CODES AS ADOPTED BY THE LOCAL GOVERNING AJTHORITIES. NOTHING IN THESE PLANS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THESE CODES.			PRAIRIE VILLA CITY MONOPO
*		INTERNATIONAL BUILDING CODE INTERNATIONAL MECHANICAL CODE			KC60XC727
- u	SITE TO THE STATE OF THE STATE	3. ANSI/TIA-222 STRUCTURAL STANDARD 4. NFPA 780 - LIGHTNING PROTECTION CODE 5. UNIFORM PLUMBING CODE 6. NATIONAL ELECTRICAL CODE			- SITE ADDRESS: 7700 MISSION RO PRAIRIE VILLAGE 66208
	Attraction Perk Prainta Visage,	811			TITLE SHEET
-		Know what's below. Call before you dig. www.cdil811.com			T-1

THESE OUTLINE SPECIFICATIONS IN CONJUNCTION WITH THE SPRINT STANDARD CONSTRUCTION SPECIFICATIONS, INCLUDING CONTRACT DOCUMENTS AND THE CONSTRUCTION DRAWINGS DESCRIBE THE WORK TO BE PERFORMED BY THE CONTRACTOR.

SECTION 01 100 - SCOPE OF WORK

THE WORK: SHALL COMPLY WITH APPLICABLE NATIONAL CODES AND STANDARDS, LATEST EDITION, AND

PRECEDENCE:
SHOULD CONFLICTS OCCUR BETWEEN THE STANDARD CONSTRUCTION SPECIFICATIONS FOR WIRELESS SITES INCLUDING THE STANDARD CONSTRUCTION DETAILS FOR WIRELESS SITES AND THE CONSTRUCTION DRAWINGS, INFORMATION ON THE CONSTRUCTION DRAWINGS SHALL

SITE FAMILIARITY:
CONTRACTOR SHALL BE RESPONSIBLE FOR FAMILIARIZING HIMSELF WITH ALL CONTRACT
DOCUMENTS, FIELD CONDITIONS AND DIMENSIONS PRIOR TO PROCEEDING WITH

ON-SITE SUPERVISION:
THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK AND SHALL BE RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.

DRAWINGS. SPECIFICATIONS AND DETAILS REQUIRED AT JOBSITE:
THE CONSTRUCTION CONTRACTOR SHALL MAINTAIN A FULL SET OF THE CONSTRUCTION DRAWINGS AT THE JOBSITE FROM MOBILIZATION THROUGH CONSTRUCTION COMPLETION.

- A. DETAILS ARE INTENDED TO SHOW DESIGN INTENT. PROVIDE ALL MATERIALS AND LABOR AS REQUIRED TO PROVIDE A COMPLETE AND FUNCTIONING SYSTEM.

 MODIFICATIONS MAY BE REQUIRED TO SUIT JOB DIMENSIONS OR CONDITIONS, AND SUCH MODIFICATIONS SHALL BE INCLUDED AS PART OF THE WORK.
- B, CONTRACTOR SHALL NOTIFY SPRINT CONSTRUCTION MANAGER OF ANY VARIATIONS PRIOR TO PROCEEDING WITH THE WORK, DIMENSIONS SHOWN ARE TO FINISH SURFACES UNLESS NOTED OTHERWISE, MODIFICATIONS MAY BE REQUIRED TO SUIT JOB DIMENSIONS OR CONDITIONS, AND SUCH MODIFICATIONS SHALL BE INCLUDED
- C. MARK THE FIELD SET OF DRAWINGS IN RED, DOCUMENTING ANY CHANGES FROM THE CONSTRUCTION DOCUMENTS.

METHODS OF PROCEDURE (MOPS) FOR CONSTRUCTION: CONTRACTOR SHALL PERFORM WORK AS DESCRIBED IN THE FOLLOWING INSTALLATION AND

- A. 107 HAI B. HOW TO INSTALL A NEW CABINET C. BASE BAND UNIT IN EXISTING UNIT D. INSTALLATION OF BATTERIES E. INSTALLATION OF HYBRID CABLE
- INSTALLATION OF RRU'S
- CARLING
- TS-0200 REV 4 ANTENNA LINE ACCEPTANCE STANDARDS
 SPRINT CELL SITE ENGINEERING NOTICE EN 2012-001, REV 1.

SECTION 01 200 - COMPANY FURNISHED MATERIAL AND EQUIPMENT COMPANY FURNISHED MATERIAL AND EQUIPMENT IS IDENTIFIED ON THE RF DATA SHEET IN

CONTRACTOR IS RESPONSIBLE FOR SPRINT PROVIDED MATERIAL AND EQUIPMENT TO ENSURE IT IS PROTECTED AND HANDLED PROPERLY THROUGHOUT THE CONSTRUCTION

CONTRACTOR RESPONSIBLE FOR RECEIPT OF SPRINT FURNISHED EQUIPMENT AT CELL SITE OR CONTRACTORS LOCATION. CONTRACTOR TO COMPLETE SHIPPING AND RECEIPT DOCUMENTATION IN ACCORDANCE WITH COMPANY PRACTICE.

SECTION 01 300 - CELL SITE CONSTRUCTION CO.

NOTICE TO PROCEED:

NO WORK SHALL COMMENCE PRIOR TO COMPANY'S WRITTEN NOTICE TO PROCEED AND THE ISSUANCE OF WORK ORDER.

SITE CLEANLINESS:

CONTRACTOR SHALL KEEP THE SITE FREE FROM ACCUMULATING WASTE MATERIAL, DEBRIS, AND TRASH. AT THE COMPLETION OF THE WORK, CONTRACTOR SHALL REMOVE FROM THE SITE ALL REMAINING RUBBISH, IMPLEMENTS, TEMPORARY FACILITIES, AND SURPLUS

SECTION 01 400 - SUBMITTALS & TESTS

ALTERNATES:

AT THE COMPANY'S REQUEST, ANY ALTERNATIVES TO THE MATERIALS OR METHODS SPECIFIED SHALL BE SUBMITTED TO SPRINTS CONSTRUCTION MANAGER FOR APPROVAL. SPRINT WILL REVIEW AND APPROVE ONLY THOSE REQUESTS MADE IN WRITING. NO VERBAL APPROVALS WILL BE CONSIDERED,

TESTS AND INSPECTIONS:

- A. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CONSTRUCTION TESTS, INSPECTIONS AND PROJECT DOCUMENTATION.
- B. CONTRACTOR SHALL ACCOMPLISH TESTING INCLUDING BUT NOT LIMITED TO THE
- COAX SWEEPS AND FIBER TESTS PER TS-0200 REV 4 ANTENNA LINE ACCEPTANCE STANDARDS.
- 2. AGL, AZIMUTH AND DOWNTILT PROVIDE AN AUTOMATED REPORT UPLOADED TO SITERRA USING A COMMERCIAL MADE—FOR THE PURPOSE ELECTRONIC ANTENNA ALIGNMENT TOOL (AAT). INSTALLED AZIMUTH, CENTERLINE AND DOWNTILT MUST CONTROL WAS A CONFORM WITH RF CONFIGURATION DATA

- 3. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY AND ALL CORRECTIONS TO ANY WORK IDENTIFIED AS UNACCEPTABLE IN SITE INSPECTION ACTIVITIES AND/DR AS A
- 4. ALL TESTING REQUIRED BY APPLICABLE INSTALLATION MOPS.
- C. REQUIRED CLOSEOUT DOCUMENTATION INCLUDES, BUT IS NOT LIMITED TO THE FOLLOWING;
- 1. AZIMUTH, DOWNTILT, AGL FROM SUNSIGHT INSTRUMENTS ANTENNALIGN ALIGNMENT TOOL (AAT)
- 2. SWEEP AND FIBER TESTS
- SCANABLE BARCODE PHOTOGRAPHS OF TOWER TOP AND INACCESSIBLE SERIALIZED EQUIPMENT
- 4. ALL AVAILABLE JURISDICTIONAL INFORMATION
- 5. PDF SCAN OF REDLINES PRODUCED IN FIELD
- A PDF SCAN OF REDLINE MARK—UPS SUITABLE FOR USE IN ELECTRONIC AS—BUILT DRAWING PRODUCTION
- 7. LIEN WAIVERS
- 8. FINAL PAYMENT APPLICATION
- 9. REQUIRED FINAL CONSTRUCTION PHOTOS
- 10. CONSTRUCTION AND COMMISSIONING CHECKLIST COMPLETE WITH NO DEFICIENT
- 11. ALL POST NTP TASKS INCLUDING DOCUMENT UPLOADS COMPLETED IN SITERRA (SPRINTS DOCUMENT REPOSITORY OF RECORD).
- 12. CLOSEOUT PHOTOGRAPHS:
- a PROVIDE PHOTOGRAPHS OF FINAL PROJECT PER THE FOLLOWING LIST. ADDITIONAL PHOTOGRAPHS MAY BE REQUIRED TO SUPPORT ACCEPTANCE PROCESSES
- (I) BACK MAIN HYBRID CABLE ROUTE (MINIMUM TWO PHOTOS)
- (II) OF EACH ANTENNA AND RRU
- (III) MANUFACTURERS NAME TAG FOR ALL SERIALIZED EQUIPMENT
- (iv) PULL AND DISTRIBUTION BOXES INTERMEDIATE BETWEEN RRU'S AND MMBS (DOOR
- (v) MMBS CABINET WITH DOOR OPEN SHOWING MODIFICATIONS
- (vi) POWER CABINET, DOORS OPEN, BATTERIES INSTALLED
- (vii) BREAK OUT CYLINDERS
- (viii) ASR SIGNAGE FOR SPRINT OWNED TOWERS
- (ix) RADIATION EXPOSURE WARNING SIGNS
- (x) PHOTOGRAPH FROM EACH SECTOR FROM APPROXIMATELY RAD CENTER OF ANY NEW ANTENNA AT HORIZON.
- b LOAD PHOTOS TO SITERRA PROJECT LIBRARY 15. IN 15 CREATE NEW CATEGORY; 2.5 DEPLOYMENT, AND SECTION; PERMANENT CONSTRUCTION. LABEL PHOTOS WITH SITE CASCADE AND VIEW BEING DEPICTED. CAMERAS USED TO TAKE PHOTOGRAPHS SHALL GPS ENABLED SUCH THAT THE GPS COORDINATES ARE INCLUDED IN THE PHOTO

 $\begin{array}{llll} \underline{\text{COMMISSIONING:}} \\ \text{PERFORM ALL COMMISSIONING AS REQUIRED BY APPLICABLE MOPS} \\ \end{array}$

INTEGRATION:
PERFORM ALL INTEGRATION ACTIVITIES AS REQUIRED BY APPLICABLE MOPS

SECTION 09 900 - PAINTING

OUALITY ASSURANCE:

- A. COMPLY WITH GOVERNING CODES AND REGULATIONS. PROVIDE PRODUCTS OF ACCEPTABLE MANUFACTURERS WHICH HAVE BEEN IN SATISFACTORY USE IN SIMILAR SERVICE FOR THREE YEARS. USE EXPERIENCED INSTALLERS. DELIVER, HANDLE, AND STORE MATERIALS IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
- B. COMPLY WITH ALL ENVIRONMENTAL REGULATIONS FOR VOLATILE ORGANIC COMPOUNDS.
- A. MANUFACTURERS: BENJAMIN MOORE, ICI DEVOE COATINGS, PPG, SHERWIN WILLIAMS OR APPROVED EQUAL PROVIDE PREMIUM GRADE, PROFESSIONAL—QUALITY PRODUCTS FOR COATING SYSTEMS

PAINT SCHEDULE:

- A. EXTERIOR ANTENNAE AND ANTENNA MOUNTING HARDWARE: ONE COAT OF PRIMER AND TWO FINISH COATS. PAINT FOR ANTENNAE SHALL BE NON-METALLIC BASED AND CONTAIN NO METALLIC PARTICLES. PROVIDE COLORS AND PATTERNS AS REQUIRED TO MASK APPEARANCE OF ANTENNAE ON ADJACENT BUILDING SURFACES AND AS ACCEPTABLE TO THE OWNER. REFER TO ANTENNA MANUFACTURER'S INSTRUCTIONS WHENEVER POSSIBLE.
- B. WATER TANKS: TOUCH UP PREPARE SURFACES TO BE REPAIRED. FOLLOW INDUSTRY STANDARDS AND REQUIREMENTS OF OWNER TO MATCH EXISTING COATING AND FINISH.

- INSPECT SURFACES, REPORT UNSATISFACTORY CONDITIONS IN WRITING; BEGINNING WORK MEANS ACCEPTANCE OF SUBSTRATE.
- COMPLY WITH MANUFACTURER'S INSTRUCTIONS AND RECOMMENDATIONS FOR PREPARATION, PRIMING AND COATING WORK. COORDINATE WITH WORK OF OTHER
- 3. MATCH APPROVED MOCK-UPS FOR COLOR, TEXTURE, AND PATTERN, RE-COAT OR REMOVE AND REPLACE WORK WHICH DOES NOT MATCH OR SHOWS LOSS OF
- 4. CLEAN UP, TOUCH UP AND PROTECT WORK.

TOUCHUP PAINTING:

- GALVANIZING DAMAGE AND ALL BOLTS AND NUTS SHALL BE TOUCHED UP AFTER TOWER ERECTION WITH "GALVANOX," "DRY GALV," OR "ZINC—IT."
- 2. FIELD TOUCHUP PAINT SHALL BE DONE IN ACCORDANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS.
- 3. ALL METAL COMPONENTS SHALL BE HANDLED WITH CARE TO PREVENT DAMAGE TO THE COMPONENTS, THEIR PRESERVATIVE TREATMENT, OR THEIR PROTECTIVE

SECTION 11 700 - ANTENNA ASSEMBLY, REMOTE RADIO UNITS AND

THIS SECTION SPECIFIES INSTALLATION OF ANTENNAS, RRU'S, AND CABLE EQUIPMENT, INSTALLATION, AND TESTING OF COAXIAL FIBER CABLE.

THE NUMBER AND TYPE OF ANTENNAS AND RRU'S TO BE INSTALLED IS DETAILED ON THE CONSTRUCTION DRAWINGS.

HYBRID CABLE:

HYBRID CABLE WILL BE DC/FIBER AND FURNISHED FOR INSTALLATION AT EACH SITE. CABLE SHALL BE INSTALLED PER THE CONSTRUCTION DRAWINGS AND THE APPLICABLE MANUFACTURER'S REQUIREMENTS.

JUMPERS AND CONNECTORS: FURNISH AND INSTALL 1/2" COAX JUMPER CABLES BETWEEN THE RRU'S AND ANTENNAS. JUMPERS SHALL BE TYPE LDF 4, FLC 12-50, CR 540, OR FXL 540. SUPER-FLEX CABLES ARE NOT ACCEPTABLE. JUMPERS BETWEEN THE RRU'S AND ANTENNAS OR TOWER TOP AMPLIFIERS SHALL CONSIST OF 1/2 INCH FOAM DIELECTRIC, OUTDOOR RATED COAXIAL CABLE. MIN LENGTH FOR JUMPER SHALL BE 10"-0".

MISCELLANEOUS: INSTALL SPLITTERS, COMBINERS, FILTERS PER RF DATA SHEET, FURNISHED BY SPRINT.

ANTENNA INSTALLATION:
THE CONTRACTOR SHALL ASSEMBLE ALL ANTENNAS ONSITE IN ACCORDANCE WITH THE
INSTRUCTIONS SUPPLIED BY THE MANUFACTURER. ANTENNA HEIGHT, AZIMUTH, AND FEED ORIENTATION INFORMATION SHALL BE A DESIGNATED ON THE CONSTRUCTION DRAWINGS.

- A. THE CONTRACTOR SHALL POSITION THE ANTENNA ON TOWER PIPE MOUNTS SO THAT THE BOTTOM STRUT IS LEVEL. THE PIPE MOUNTS SHALL BE PLUMB TO WITHIN
- B. ANTENNA MOUNTING REQUIREMENTS: PROVIDE ANTENNA MOUNTING HARDWARE AS INDICATED ON THE DRAWINGS.

HYBRID CABLES INSTALLATION:

- A. THE CONTRACTOR SHALL ROUTE, TEST, AND INSTALL ALL CABLES AS INDICATED ON THE CONSTRUCTION DRAWINGS AND IN ACCORDANCE WITH THE MANUFACTURER'S
- B. THE INSTALLED RADIUS OF THE CABLES SHALL NOT BE LESS THAN THE MANUFACTURER'S SPECIFICATIONS FOR BENDING RADII.
- C. EXTREME CARE SHALL BE TAKEN TO AVOID DAMAGE TO THE CABLES DURING HANDLING
- 1. FASTENING MAIN HYBRID CABLES: ALL CABLES SHALL BE PERMANENTLY FASTENED TO THE COAX LADDER AT 4'-0' OC USING NON-MAGNETIC STAINLESS STEEL CLIPS.
- 2. FASTENING INDMIDUAL FIBER AND DC CABLES ABOVE BREAKOUT ENCLOSURE (MEDUSA), WITHIN THE MMBS CABINET AND ANY INTERMEDIATE DISTRIBUTION BOXES:
- FIBER: SUPPORT FIBER BUNDLES USING ½ VELCRO STRAPS OF THE REQUIRED LENGTH © 18" OC. STRAPS SHALL BE UV, OIL AND WATER RESISTANT AND SUITABLE FOR INDUSTRIAL INSTALLATIONS AS MANUFACTURED BY TEXTOL OR
- b. DC: SUPPORT DC BUNDLES WITH ZIP TIES OF THE ADEQUATE LENGTH. ZIP TIES TO BE UV STABILIZED, BLACK NYLON, WITH TENSILE STRENGTH AT 12,000 PSI AS MANUFACTURED BY NELCO PRODUCTS OR EQUAL.
- FASTENING JUMPERS: SECURE JUMPERS TO THE SIDE ARMS OR HEAD FRAMES USING STAINLESS STEEL TIE WRAPS OR STAINLESS STEEL BUTTERFLY CLIPS.
- 4. CABLE INSTALLATION:
- a. INSPECT CABLE PRIOR TO USE FOR SHIPPING DAMAGE, NOTIFY THE CONSTRUCTION MANAGER.
- b. CABLE ROUTING: CABLE INSTALLATION SHALL BE PLANNED TO ENSURE THAT THE LINES WILL BE PROPERLY ROUTED IN THE CABLE ENVELOP AS INDICATED ON THE DRAWINGS, AVOID TWISTING AND CROSSOVERS.
- c. HOIST CABLE USING PROPER HOISTING GRIPS. DO NOT EXCEED MANUFACTURES RECOMMENDED MAXIMUM BEND RADIUS.

PLANS PREPARED FOR



PLANS PREPARED BY

CEN.S CENSA



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PRAIRIE VILLAGE

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- SITE CASCADE:

- SITE ADDRESS:

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SPECIFICATIONS

- SHEET NUMBER:

CONTINUE FROM SP-1

- 5. GROUNDING OF TRANSMISSION LINES: ALL TRANSMISSION LINES SHALL BE GROUNDED AS INDICATED ON DRAWINGS.
- 8. HYBRID CABLE COLOR CODING: ALL COLOR CODING SHALL BE AS REQUIRED IN TS
- 7. HYBRID CABLE LABELING; INDIVIDUAL HYBRID AND DC BUNDLES SHALL BE LABELED ALPHA-NUMERICALLY ACCORDING TO SPRINT CELL SITE ENGINEERING NOTICE EN

WEATHERPROOFING EXTERIOR CONNECTORS AND HYBRID CABLE GROUND

- A. ALL FIBER & COAX CONNECTORS AND GROUND KITS SHALL BE WEATHERPROOFED.
- B. WEATHERPROOFED USING ONE OF THE FOLLOWING METHODS. ALL INSTALLATIONS MUST BE DONE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND
 - COLD SHRINK: ENCOMPASS CONNECTOR IN COLD SHRINK TUBING AND PROVIDE A DOUBLE WRAP OF 2" ELECTRICAL TAPE EXTENDING 2" BEYOND TUBING. PROVIDE 3M COLD SHRINK CXS SERIES OR EQUAL.
- SELF-AMALGAMATING TAPE: CLEAN SURFACES. APPLY A DOUBLE WRAP OF SELF-AMALGAMATING TAPE 2' BEYOND CONNECTOR. APPLY A SECOND WRAP OF SELF-AMALGAMATING TAPE IN OPPOSITE DIRECTION. APPLY DOUBLE WRAP OF 2' WIDE ELECTRICAL TAPE EXTENDING 2' BEYOND THE SELF-AMALGAMATING TAPE.
- 3. 3M SLIM LOCK CLOSURE 716: SUBSTITUTIONS WILL NOT BE ALLOWED.
- 4. OPEN FLAME ON JOB SITE IS NOT ACCEPTABLE

SECTION 11 800 - INSTALLATION OF MULTIMODAL BASE STATIONS (MMBS) AND RELATED EQUIPMENT

SUMMARY:

- A. THIS SECTION SPECIFIES MMBS CABINETS, POWER CABINETS, AND INTERNAL EQUIPMENT INCLUDING BY NOT LIMITED TO RECTIFIERS, POWER DISTRIBUTION UNITS, BASE BAND UNITS, SURGE ARRESTORS, BATTERIES, AND SIMILAR EQUIPMENT FURNISHED BY THE COMPANY FOR INSTALLATION BY THE CONTRACTOR (OFCI).
- B. CONTRACTOR SHALL PROVIDE AND INSTALL ALL MISCELLANEOUS MATERIALS AND PROVIDE ALL LABOR REQUIRED FOR INSTALLATION EQUIPMENT IN EXISTING CABINET OR NEW CABINET AS SHOWN ON DRAWINGS AND AS REQUIRE BY THE APPLICABLE
- C. COMPLY WITH MANUFACTURERS INSTALLATION AND START-UP REQUIREMENTS

DC CIRCUIT BREAKER LABELING

A. LABEL CIRCUIT BREAKERS ACCORDING TO SPRINT CELL SITE ENGINEERING NOTICE - EN 2012-001, REV 1.

SECTION 26 100 - BASIC ELECTRICAL REQUIREMENTS

THIS SECTION SPECIFIES BASIC ELECTRICAL REQUIREMENTS FOR SYSTEMS AND COMPONENTS.

QUALITY ASSURANCE:

- A. ALL EQUIPMENT FURNISHED UNDER DMISION 26 SHALL CARRY UL LABELS AND LISTINGS WHERE SUCH LABELS AND LISTINGS ARE AVAILABLE IN THE INDUSTRY.
- B. MANUFACTURERS OF EQUIPMENT SHALL HAVE A MINIMUM OF THREE YEARS EXPERIENCE WITH THEIR EQUIPMENT INSTALLED AND OPERATING IN THE FIELD IN A USE SIMILAR TO THE PROPOSED USE FOR THIS PROJECT.
- C. MATERIALS AND EQUIPMENT: ALL MATERIALS AND EQUIPMENT SPECIFIED IN DIVISION 26 OF THE SAME TYPE SHALL BE OF THE SAME MANUFACTURER AND SHALL BE NEW, OF THE BEST QUALITY AND DESIGN, AND FREE FROM DEFECTS

SUPPORTING DEVICES:

- A. ALL EQUIPMENT FURNISHED UNDER DMISION 26 SHALL CARRY UL LABELS AND LISTINGS WHERE SUCH LABELS AND LISTINGS ARE AVAILABLE IN THE INDUSTRY.
- B. MANUFACTURERS OF EQUIPMENT SHALL HAVE A MINIMUM OF THREE YEARS EXPERIENCE WITH THEIR EQUIPMENT INSTALLED AND OPERATING IN THE FIELD IN A USE SIMILAR TO
- C. MATERIALS AND EQUIPMENT:
 ALL MATERIALS AND EQUIPMENT SPECIFIED IN DIVISION 26 OF THE SAME TYPE SHALL
 BE OF THE SAME MANUFACTURER AND SHALL BE NEW, OF THE BEST QUALITY AND

SUPPORTING DEVICES:

- A. MANUFACTURED STRUCTURAL SUPPORT MATERIALS: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE PRODUCTS BY THE FOLLOWING:
 - 1. ALLIED TUBE AND CONDUIT
 - 2. B-LINE SYSTEM
 - 3. SUNISTRUT DIVERSIFIED PRODUCTS
 - 4. THOMAS & BETTS
- B. FASTENERS: TYPES, MATERIALS, AND CONSTRUCTION FEATURES AS FOLLOWS:
- 1. EXPANSION ANCHORS: CARBON STEEL WEDGE OR SLEEVE TYPE
- POWER-DRIVEN THREADED STUDS: HEAT-TREATED STEEL, DESIGNED SPECIFICALLY FOR THE INTENDED SERVICE.
- 3. FASTEN BY MEANS OF WOOD SCREWS ON WOOD.
- 4. TOGGLE BOLTS ON HOLLOW MASONRY UNITS.
- 5. CONCRETE INSERTS OR EXPANSION BOLTS ON CONCRETE OR SOLID MASONRY.
- 6. MACHINE SCREWS, WELDED THREADED STUDS, OR SPRING-TENSION CLAMPS ON
- 7. EXPLOSIVE DEVICES FOR ATTACHING HANGERS TO STRUCTURE SHALL NOT BE
- 8. DO NOT WELD CONDUIT, PIPE STRAPS, OR ITEMS OTHER THAN THREADED STUDS TO STEEL STRUCTURES.
- 9. IN PARTITIONS OF LIGHT STEEL CONSTRUCTION, USE SHEET METAL SCREWS.

SUPPORTING DEVICES:

- A. INSTALL SUPPORTING DEVICES TO FASTEN ELECTRICAL COMPONENTS SECURELY AND PERMANENTLY IN ACCORDANCE WITH NEC.
- B. COORDINATE WITH THE BUILDING STRUCTURAL SYSTEM AND WITH OTHER TRADES.
- C. UNLESS OTHERWISE INDICATED ON THE DRAWINGS, FASTEN ELECTRICAL ITEMS AND THEIR SUPPORTING HARDWARE SECURELY TO THE STRUCTURE IN ACCORDANCE WITH
- D. ENSURE THAT THE LOAD APPLIED BY ANY FASTENER DOES NOT EXCEED 25 PERCENT OF THE PROOF TEST LOAD.
- E. USE VIBRATION AND SHOCK-RESISTANT FASTENERS FOR ATTACHMENTS TO CONCRETE

ELECTRICAL IDENTIFICATION:

- A. UPDATE AND PROVIDE TYPED CIRCUIT BREAKER SCHEDULES IN THE MOUNTING BRACKET, INSIDE DOORS OF AC PANEL BOARDS WITH ANY CHANGES MADE TO THE AC SYSTEM.
- B. BRANCH CIRCUITS FEEDING AVIATION OBSTRUCTION LIGHTING EQUIPMENT SHALL BE CLEARLY IDENTIFIED AS SUCH AT THE BRANCH CIRCUIT PANELBOARD.

SECTION 26 200 - ELECTRICAL MATERIALS AND EQUIPMENT

- A. RIGID CALVANIZED STEEL (RGS) CONDUIT SHALL BE USED FOR EXTERIOR LOCATIONS ABOVE GROUND AND IN UNFINISHED INTERIOR LOCATIONS AND FOR ENCASED RUNS IN CONCRETE. RIGID CONDUIT AND FITTINGS SHALL BE STEEL, COATED WITH ZINC EXTERIOR AND INTERIOR BY THE HOT DIP GALVANIZING PROCESS. CONDUIT SHALL BE PRODUCED TO ANSI SPECIFICATIONS C80.1, FEDERAL SPECIFICATION WW-C-581 AND SHALL BE LISTED WITH THE UNDERWRITERS' LABORATORIES. FITTINGS SHALL BE THREADED - SET SCREW OR COMPRESSION FITTINGS WILL NOT BE ACCEPTABLE. RGS CONDUITS SHALL BE MANUFACTURED BY ALLIED, REPUBLIC OR WHEATLAND.
- B. UNDERGROUND CONDUIT SHALL BE POLYVINYLCHLORIDE (PVC) SUITABLE FOR DIRECT BURIAL AS APPLICABLE. JOINTS SHALL BE BELLED, AND FLUSH SOLVENT WELDED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. CONDUIT SHALL BE CARLON
- C. TRANSITIONS BETWEEN PVC AND RIGID (RGS) SHALL BE MADE WITH PVC COATED METALLIC LONG SWEEP RADIUS ELBOWS.
- D. EMT OR RIGID GALYANIZED STEEL CONDUIT MAY BE USED IN FINISHED SPACES CONCEALED IN WALLS AND CEILINGS, EMT SHALL BE MILD STEEL, ELECTRICALLY WELDED, ELECTRO-GALYANIZED OR HOT-DIPPED GALYANIZED AND PRODUCED TO ANSI SPECIFICATION COO.3, FEDERAL SPECIFICATION WY-C-563, AND SHALL BE UL LISTED. EMT SHALL BE MANUFACTURED BY ALLIED, REPUBLIC OR WHEATLAND, OR APPROVED EQUAL FITTINGS SHALL BE METALLIC COMPRESSION, SET SCREW CONNECTIONS SHALL BE ACCEPTABLE.
- E. LIQUID TIGHT FLEXIBLE METALLIC CONDUIT SHALL BE USED FOR FINAL CONNECTION TO EQUIPMENT. FITTINGS SHALL BE METALLIC GLAND TYPE COMPRESSION FITTINGS, MAINTAINING THE INTEGRITY OF CONDUIT SYSTEM. SET SCREW CONNECTIONS SHALL NOT BE ACCEPTABLE. MAXIMUM LENGTH OF FLEXIBLE CONDUIT SHALL NOT EXCEED 6-FEET, LFMC SHALL BE PROTECTED AND SUPPORTED AS REQUIRE BY NEC. MANUFACTURERS OF FLEXIBLE CONDUITS SHALL BE CAROL, ANACONDA METAL HOSE OR UNIVERSAL METAL HOSE, OR APPROVED FOLIAL. UNIVERSAL METAL HOSE, OR APPROVED EQUAL.
- F. MINIMUM SIZE CONDUIT SHALL BE 3/4 INCH (21MM).

HUBS AND BOXES:

- A. AT ENTRANCES TO CABINETS OR OTHER EQUIPMENT NOT HAVING INTEGRAL THREADED HUBS PROVIDE METALLIC THREADED HUBS OF THE SIZE AND CONFIGURATION REQUIRED. HUB SHALL INCLUDE LOCKNUT AND NEOPRENE O-RING SEAL, PROVIDE IMPACT RESISTANT 105 DEGREE C PLASTIC BUSHINGS TO PROTECT CABLE INSULATION.
- B. CABLE TERMINATION FITTINGS FOR CONDUIT
- CABLE TERMINATORS FOR RGS CONDUITS SHALL BE TYPE CRC BY 0-Z/GEDNEY OR EQUAL.
- 2. CABLE TERMINATORS FOR LFMC SHALL BE ETCO CL2075; OR MADE FOR THE PURPOSE PRODUCTS BY ROXTEC.
- C. EXTERIOR PULL BOXES AND PULL BOXES IN INTERIOR INDUSTRIAL AREAS SHALL BE PLATED CAST ALLOY, HEAVY DUTY, WEATHERPROOF, DUST PROOF, WITH GASKET, PLATED IRON ALLOY COVER AND STAINLESS STEEL COVER SCREWS, CROUSE—HINDS WAB SERIES
- D. CONDUIT OUTLET BODIES SHALL BE PLATED CAST ALLOY WITH SIMILAR GASKETED COVERS, OUTLET BODIES SHALL BE OF THE CONFIGURATION AND SIZE SUITABLE FOR THE APPLICATION. PROVIDE CROUSE—HINDS FORM 8 OR EQUAL.
- E. MANUFACTURER FOR BOXES AND COVERS SHALL BE HOFFMAN, SQUARE "D".
 CROUSE—HINDS, COOPER, ADALET, APPLETON, O—Z GEDNEY, RACO, OR APPROVED

SUPPLEMENTAL GROUNDING SYSTEM

- A. FURNISH AND INSTALL A SUPPLEMENTAL GROUNDING SYSTEM AS INDICATED ON THE DRAWINGS, SUPPORT SYSTEM WITH NON-MAGNETIC STAINLESS STEEL CLIPS WITH RUBBER GROMMETS. GROUNDING CONNECTORS SHALL BE TINNED COPPER WIRE, SIZES AS INDICATED ON THE DRAWINGS. PROVIDE STRANDED OR SOLID BARE OR INSULATED CONDUCTORS AS INDICATED. CONDUCTORS AS INDICATED.
- B. SUPPLEMENTAL GROUNDING SYSTEM: ALL CONNECTIONS TO BE MADE WITH CAD WELDS, EXCEPT AT EQUIPMENT USE LUGS OR OTHER AVAILABLE GROUNDING MEANS AS REQUIRED BY MANUFACTURER; AT GROUND BARS USE TWO HOLE SPADES WITH NO OX.
- C. STOLEN GROUND-BARS: IN THE EVENT OF STOLEN GROUND BARS, CONTACT SPRINT CM FOR REPLACEMENT INSTRUCTION USING THREADED ROD KITS.

EXISTING STRUCTURE:

A. EXISTING EXPOSED WIRING AND ALL EXPOSED OUTLETS, RECEPTACLES, SWITCHES, DEVICES, BOXES, AND OTHER EQUIPMENT THAT ARE NOT TO BE UTILIZED IN THE COMPLETED PROJECT SHALL BE REMOVED OR DE—ENERGIZED AND CAPPED IN THE WALL, CEILING, OR FLOOR SO THAT THEY ARE CONCEALED AND SAFE. WALL, CEILING, OR FLOOR SHALL BE PATCHED TO MATCH THE ADJACENT CONSTRUCTION.

CONDUIT AND CONDUCTOR INSTALLATION:

- A. CONDUITS SHALL BE FASTENED SECURELY IN PLACE WITH APPROVED NON-PERFORATED STRAPS AND HANGERS. EXPLOSIVE DEVICES FOR ATTACHING HANGERS TO STRUCTURE WILL NOT BE PERMITTED. CLOSELY FOLLOW THE LINES OF THE STRUCTURE, MAINTAIN CLOSE PROXIMITY TO THE STRUCTURE AND KEEP CONDUITS IN TIGHT ENVELOPES. CLOSE PROXIMITY TO THE STRUCTURE AND KEEP CONDUITS IN TIGHT ENVELOPES. CHANGES IN DIRECTION TO ROUTE AROUND OBSTACLES SHALL BE MADE WITH CONDUIT OUTLET BODIES, CONDUIT SHALL BE INSTALLED IN A NEAT AND WORKMANLIKE MANNER, PARALLEL AND PERPENDICULAR TO STRUCTURE WALL AND CEILING LINES, ALL CONDUIT SHALL BE FISHED TO CLEAR OBSTRUCTIONS, ENDS OF CONDUITS SHALL BE TEMPORARILLY CAPPED TO PREVENT CONCRETE, PLASTER OR DIRT FROM ENTERING. CONDUITS SHALL BE RIGIDLY CLAMPED TO BOXES BY GALVANIZED MALLEABLE IRON BUSHING ON INSIDE AND GALVANIZED MALLEABLE IRON LOCKNUT ON OUTSIDE AND INSIDE
- B. CONDUCTORS SHALL BE PULLED IN ACCORDANCE WITH ACCEPTED GOOD PRACTICE.

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PRAIRIE VILLAGE CITY MONOPOLE

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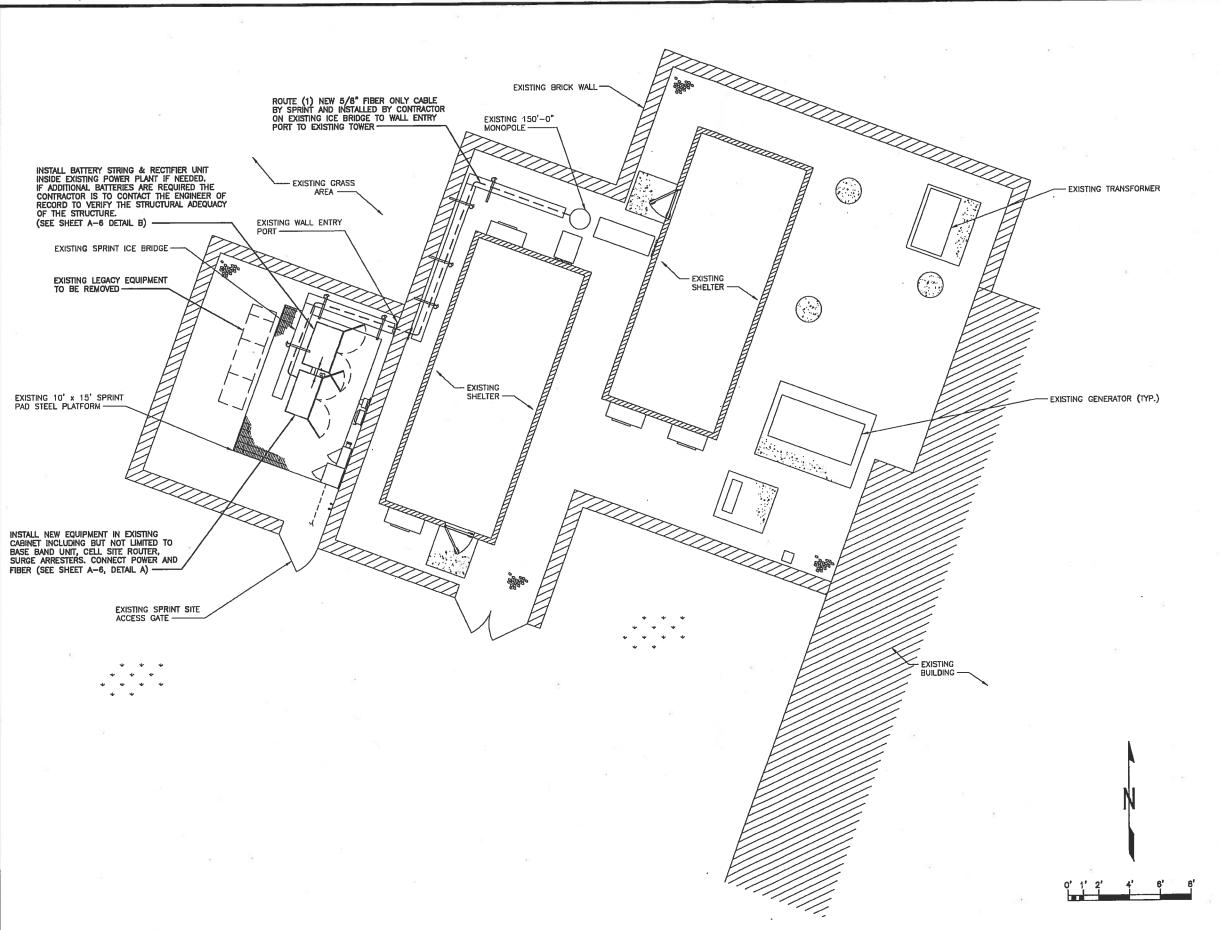
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- SHEET NUMBER:





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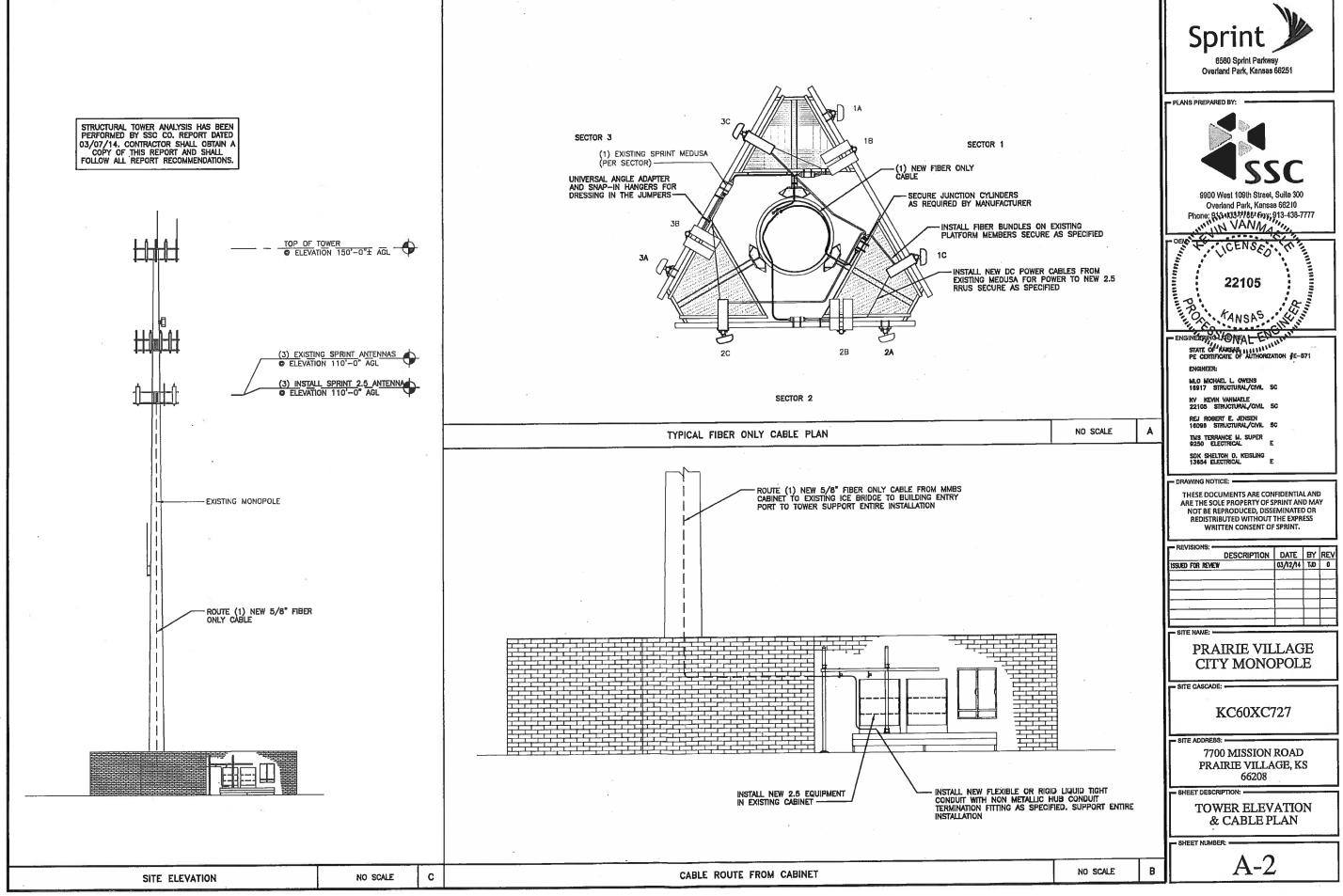
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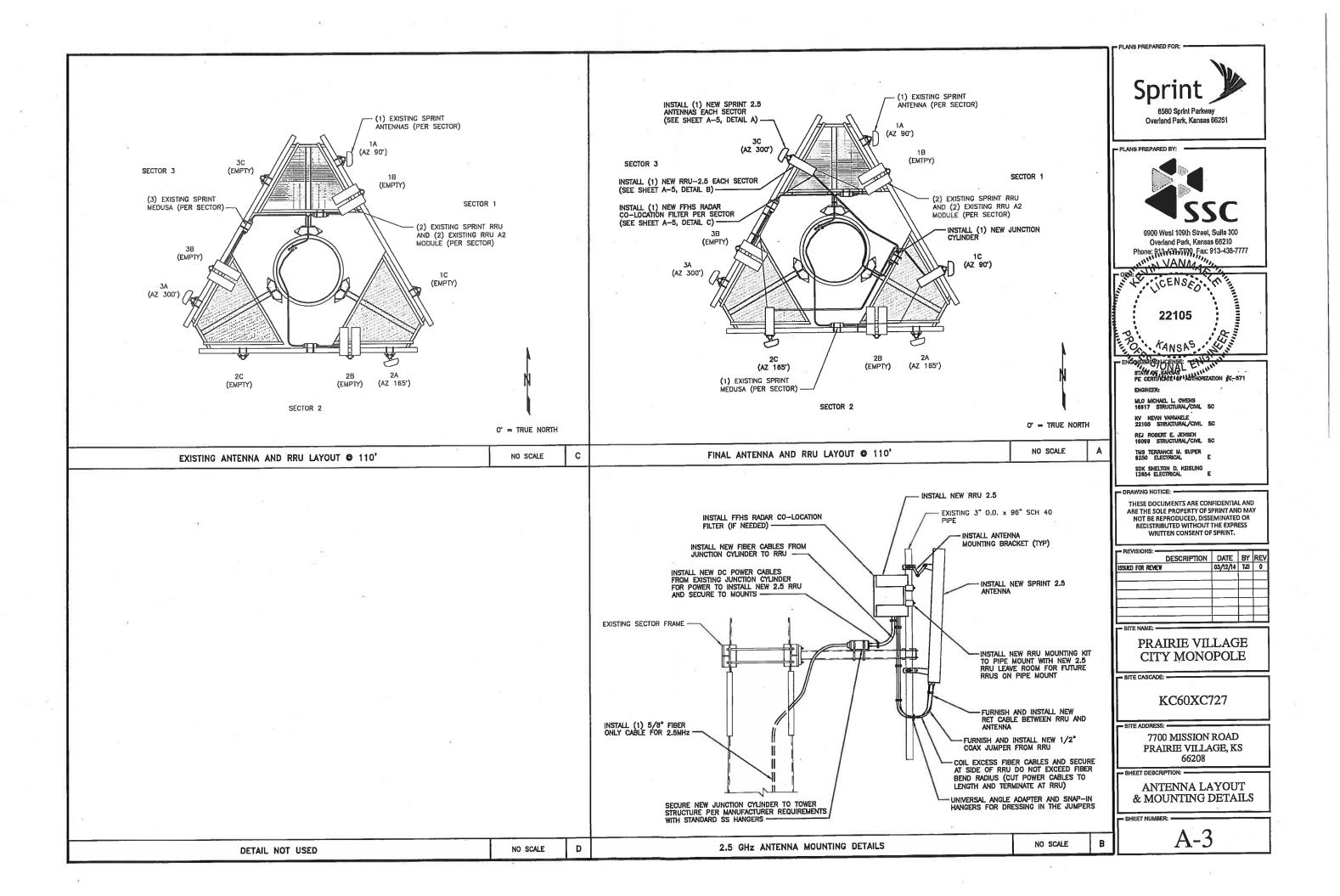
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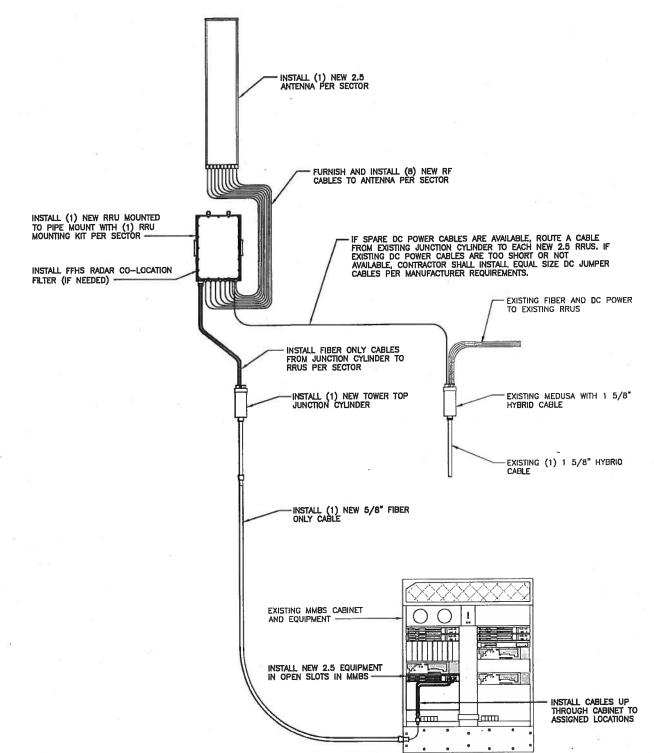
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INSTALLED ANTENNA SCHEDULE															
SECTOR	MODEL NUMBER	ANTENNA MANUFACTURER	SURGE PROTECTOR	NUMBER OF FIBER ONLY CABLES	AZIMUTH	RAD CENTER	ELECT D-TILT	MECH D-TILT	RRU MODEL	RRU MANUFACTURER	FILTER MODEL	FILTER MANUFACTURER	JUMPER SIZE	JUMPER QTY	JUMPER LENGTH
1	TYDA-252718DER4-65P	COMMSCOPE	2 PER SECTOR		90°	110'	-2	0	FZHJ (AKA FZHE++)	NSN	FFHS	NSN	1/2	9	8 FEET
2	TYDA-252718DER4-65P	COMMSCOPE	2 PER SECTOR	SHARED CABLE ALL SECTORS	t 65°	110'	-2	0	FZHJ (AKA FZHE++)	NSN	FFHS	NSN	1/2	9	8 FEET
3	TYDA-252718DER4-65P	COMMSCOPE	2 PER SECTOR	=	300°	110'	2	0	FZHJ (AKA FZHE++)	NSN	FFHS	NSN	1/2	9	8 FEET



		2500MH	z COLOR	CODE	82		
2500MHz #1 CAL CABLE—SECTOR	CABLE	FIRST RING	SECOND RING	THIRD RING	FORTH RING	FIFTH RING	SIXTH
1 ALPHA	1	YELLOW	BLACK	YELLOW	WHITE	BLACK	BLACK
2 BETA	2	YELLOW	YELLOW	BLACK	YELLOW	WHITE	BLACK
3 GAMMA	3	YELLOW	YELLOW	YELLOW	BLACK	YELLOW	WHITE
		25				- 1	
2500MHz #2 CAL CABLE-SECTOR	CABLE	FIRST RING	SECOND RING	THIRD RING	FORTH RING	FIFTH RING	SIXTH RING
1 ALPHA	:1	YELLOW	BLACK	YELLOW	PURPLE	BLACK	BLACK
2 BETA	2	YELLOW	YELLOW	BLACK	YELLOW	PURPLE	BLACK
	3	YELLOW	YELLOW	YELLOW	BLACK	YELLOW	PURPL



PLANS PREPARED BY:



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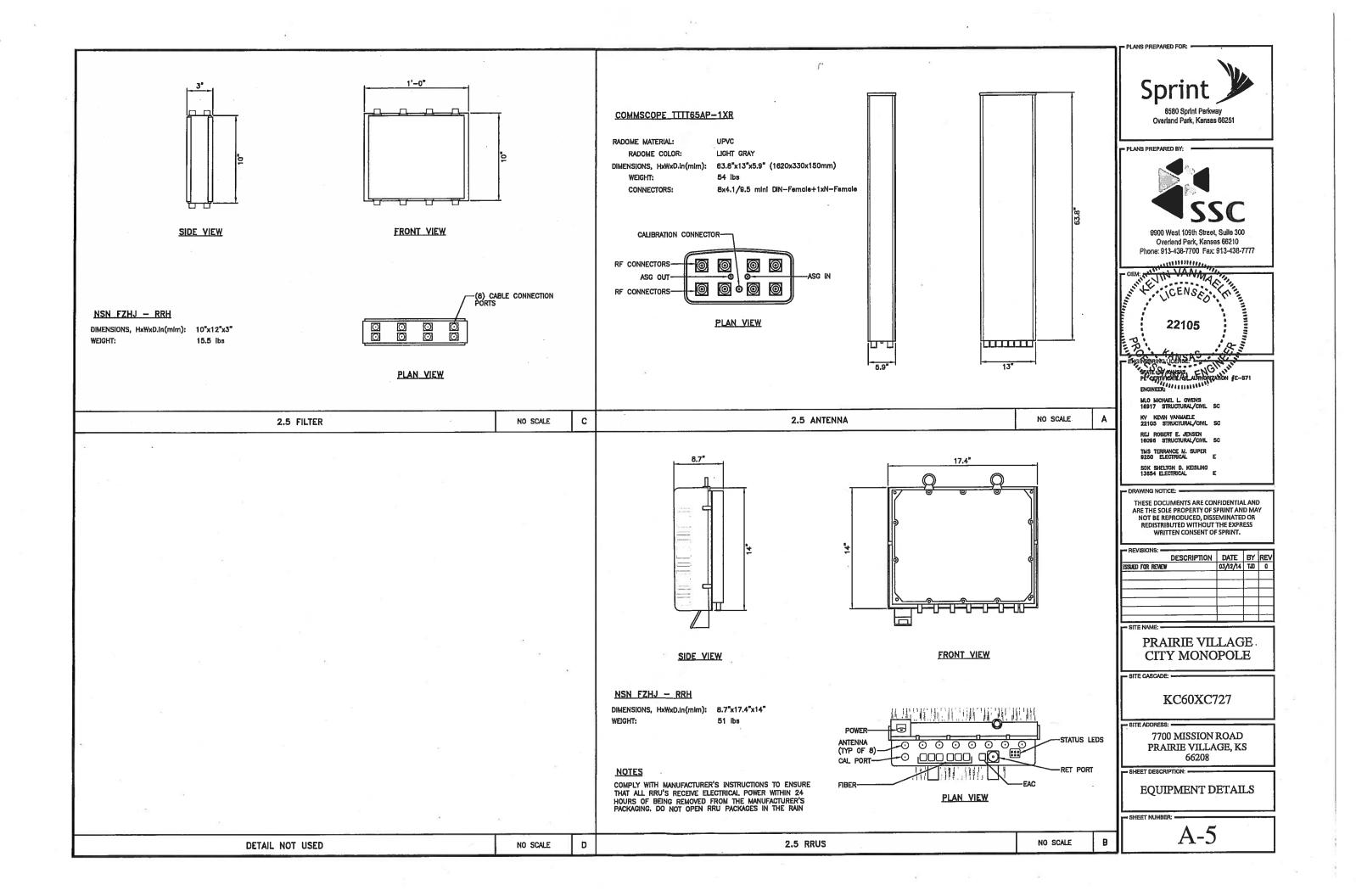
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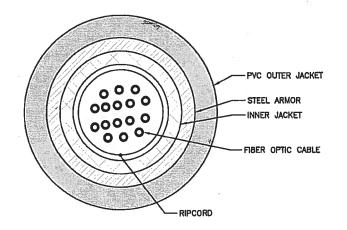
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- SHEET DESCRIPTION: -

RF DATA SHEET & EQUIPMENT INFORMATION

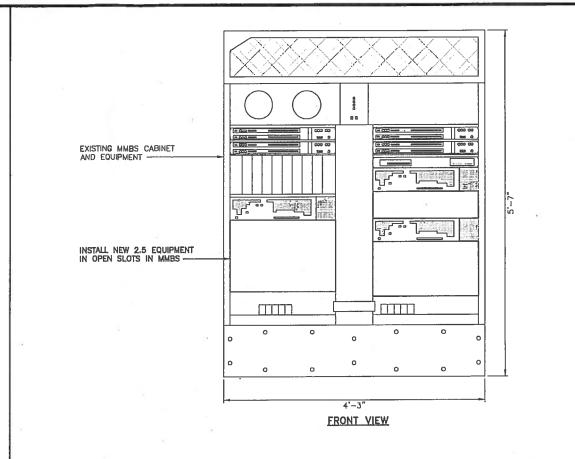
- SHEET NUMBER: -





NOTE: CABLE CROSS-SECTION NOT DRAWN TO SCALE

CABLE CONSTRUCTION		
ARMOR	STEEL TAPE	
FIBER CABLES	FIBER TYPE	OS2 BEND- INSENSITIVE LOW
	WATER-PEAK SINGLE MODE	G,657,A1
	FIBER COUNT	16
	FIBER OD	0.010" (0.25 mm)
	NORMAL DIAMETER	0.315" (8 mm)
	JACKET	LOW-SMOKE ZERO-HALOGEN
OUTER JACKET	MATERIAL	PVC-UV RESISTANT
0.11. 0.010.	COLOR	BLACK
	NOMINAL WALL	0.085" (1.7 mm)
-	NOMINAL OD	.644" (16.10 mm)
	RIPCORD UNDER JACKET	
	ULTC TC-OF	
	FT-4 (FIBER)	
OTHER CHARACTERISTICS		
	BENDING RADIUS	14 INCHES
	OPERATING TEMP. (FIBER)	-40°C TO 70°C
	STORAGE TEMP. (FIBER)	-40°C TO 75°C
	INSTALLATION TEMP. (FIBER)	-30°C TO 60°C
	MAXIMUM LONG TERM LOAD (FIBER)	800 N (180 LBF)
	MAXIMUM SHORT TERM LOAD (FIBER)	2700 N (600 LBF)
	ESTIMATED CABLE WEIGHT	0.25 LBS/FT



INSTALL NEW BATTERY
STRINGS IN OPEN SHELF
(IF NEEDED)

(2) EXISTING BATTERY
STRINGS

4'-3"

EXISTING RACK WITH 2.5 EQUIPMENT

Sprint

6580 Sprint Parkway
Overland Park, Kansas 66251

LANS PREPARED BY

PLANS PREPARED FOR:



9900 West 109th Street, Sulle 300 Overland Park, Kansas 66210 Phone: 913-438-7700 hpp; 913-438-7777

CENSE

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STATE OF MANAGEMENT PE CERTIFICATE OF MANAGEMENT OF MANAGEMENT OF MANAGEMENT OF THE PERSON OF THE PE

MLO MICHAEL L. OWENS 18917 STRUCTURAL/CINL SC

16917 STRUCTURAL/CML S

22108 STRUCTURAL/CML S

REJ ROBERT E. JENSEN 16096 STRUCTURAL/CML SC

TMS TERRANCE M. SUPER 9250 ELECTRICAL E

SDK SHELTON D. KEISLING 13654 ELECTRICAL E

- DRAWING NOTICE

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- REVISIONS

DESCRIPTION	DATE	BY	F
ISSUED FOR REVIEW	03/12/14	T.D	Γ
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SITE NAM

PRAIRIE VILLAGE CITY MONOPOLE

SITE CASCADE: -

KC60XC727

SITE ADDRESS: -

7700 MISSION ROAD PRAIRIE VILLAGE, KS 66208

- SHEET DESCRIPTION: •

EQUIPMENT DETAILS

SHEET NUMBER: -

A-6

FIBER ONLY CABLE

NO SCALE

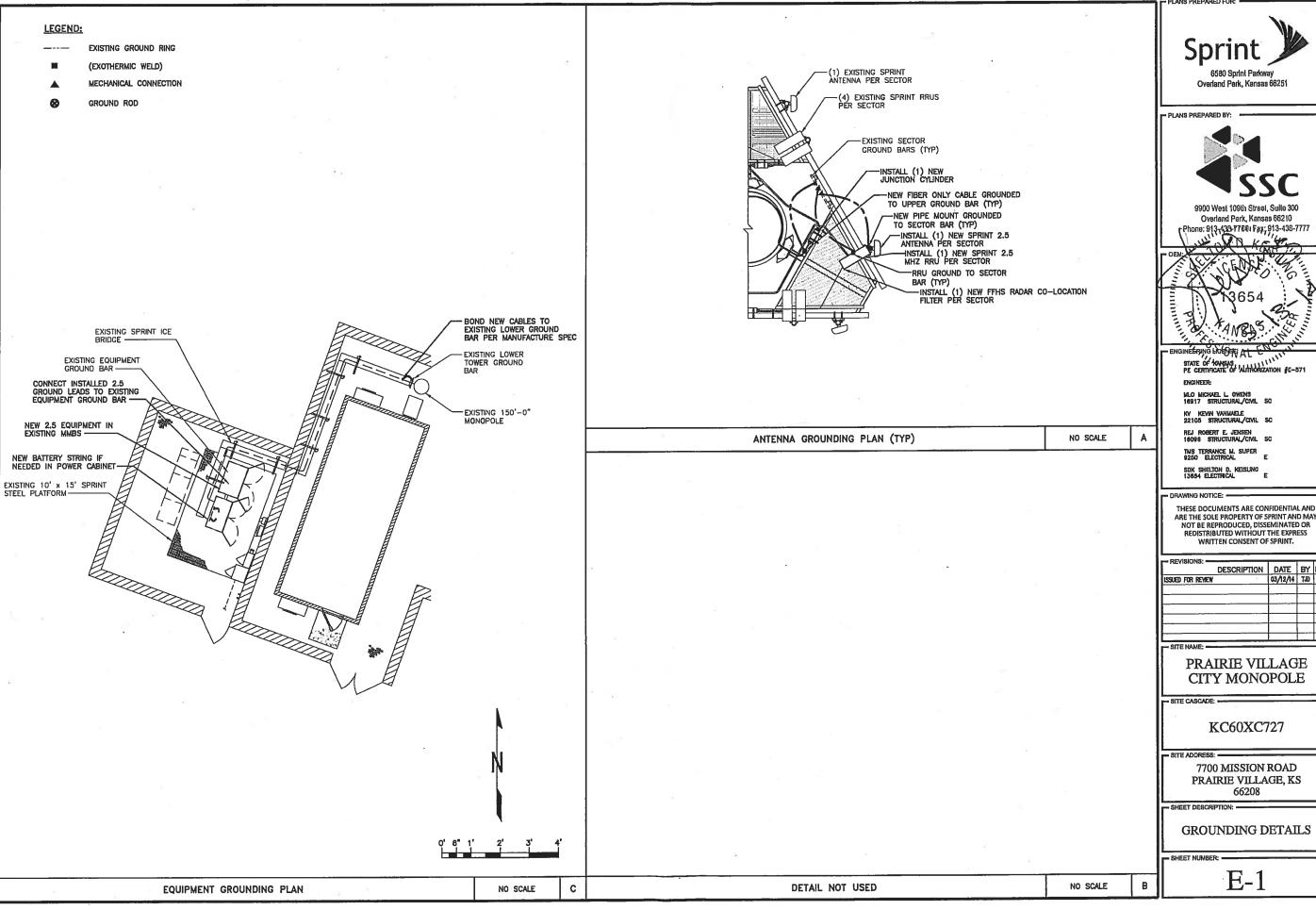
С

EXISTING POWER PLANT

FRONT VIEW

NO SCALE

NO SCALE

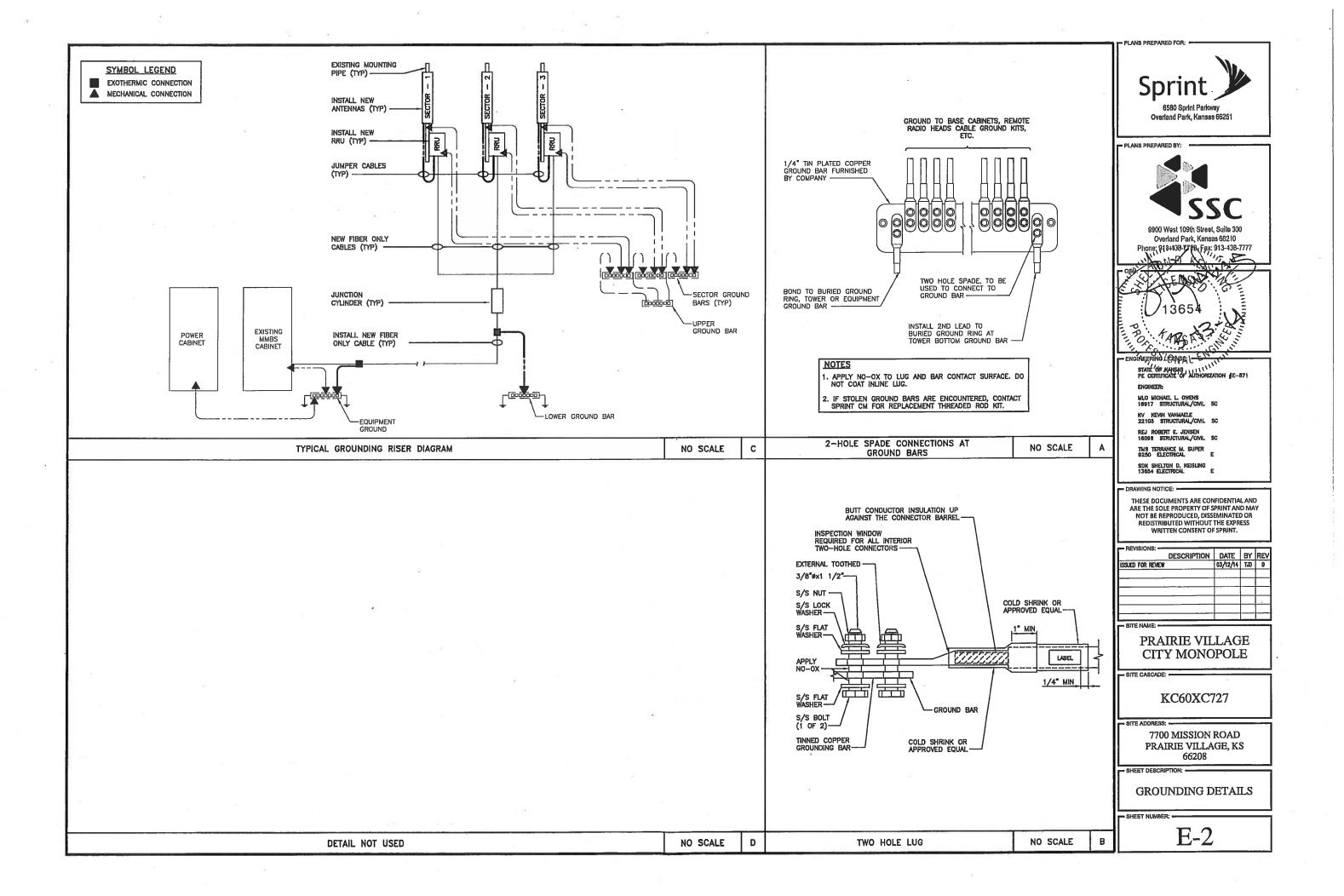


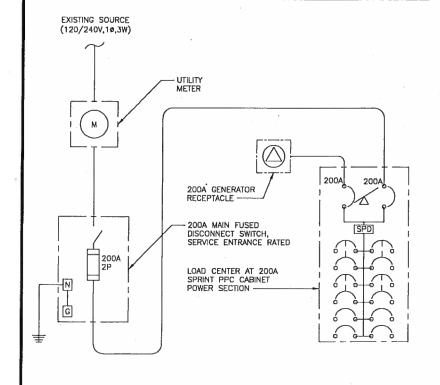




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EXISTING PPC CIRCUIT BREAKER LOAD CENTER

SITE NUM	BER:	KC60XC727		PHASE:		SINGLE		WIRE:	3
VOLTAGE		240V/120		BUS RATING:		225 AMPS		AIC: 10KAIC	
WAIN BRE	AKER:	200 AMP		NEUTRAL BA	₹:	YES		GROUND BAR:	TBD
				SERVICE ENT	RANCE:	YES/NO			
СКТ	LOAD DESCRIPTION	BREAKER	BREAKER POLES	PHASE A VA	PHASE B VA	BREAKER POLES	BREAKER AMPS	LOAD DESCRIPTION	СКТ
1	UNKNOWN			N/A	A SAME AND SAME			UNKNOWN	2
3	UNKNOWN				N/A	-		UNKNOWN	4
5	UNKNOWN			N/A				UNKNOWN	6
7	UNKNOWN				N/A			UNKNOWN	8
9	UNKNOWN			N/A			-	UNKNOWN	10
11	UNKNOWN			A DESCRIPTION OF THE PERSON OF	N/A		-	UNKNOWN	12
13	UNKNOWN			_				UNKNOWN	14
15	UNKNOWN		,	Banks C		_	_	UNKNOWN	16
17	UNKNOWN			J 1				UNKNOWN	18
19	UNKNOWN		_		— ".			UNKNOWN	20
21	UNKNOWN		_	-	THE REPORT OF			UNKNOWN	22
23	UNKNOWN			292 6 20				UNKNOWN	24
		•		0	0	TOTAL KVA	0.00	TOTAL CONNECTED LOAD	
						AMPS	0.00		-

- CONTRACTOR SHALL VERIFY LOADS AND BREAKER SIZES AND CORRECT ON AS—BUILT DRAWINGS
- NO PHOTOS OF INSIDE PPC

	•		
EXISTING ELECTRICAL ONE-LI	NE DIAGRAM & LOAD CENTER		NO SCALE A
DC POWER CONVERTERS & RECTIFIERS DATA SHEET	SLOT SHU 0201 CB20 CB21 CB21 CB22 CB23 CB24 CB24 CB25 CB26 CB26 CB27 CB26 CB27 CB26 CB27 CB28 CB28 CB28 CB28 CB28 CB28 CB28 CB28 CB29 CB28 CB33 CB36 CB36 CB36 CB37 CB38 CB38 CB38 CB38 CB36 CB39 CB40 CB40 CB41	CB2	NO SCALE A
CONTRACTOR TO FIELD VERIFY ALL DC CONNECTIONS AND LOCATIONS. SO THEY CAN BE CALLED OUT AND LABELED.	CB42 CB43 CB43 CB44 CB45 CB45 CB45		
EXISTING DC	DISTRIBUTION	-	NO SCALE B



LANS PREPARED BY:

9900 West 109th Street, Sulle 300 Overland Park, Kansas 66210 Phone; 646-43677700 Fax: 913-438-7777



ENGINEERING WENSEL

MLO MICHAEL L. OWENS 16917 STRUCTURAL/CIVIL SC

KV KEVIN VANHAELE

REJ ROBERT E. JENSEN 18098 STRUCTURAL/CML SC

TMS TERRANCE M. SUPER 9250 ELECTRICAL E

SOK SHELTON D. KEISLING 13654 ELECTRICAL E

- DRAWING NOTICE

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PRAIRIE VILLAGE CITY MONOPOLE

SITE CASCADE: -

KC60XC727

SITE ADDRESS:

7700 MISSION ROAD PRAIRIE VILLAGE, KS 66208

- SHEET DESCRIPTION: -

DC POWER & DISTRIBUTION

- SHEET NUMBER: -

E-3

LOCHNER

STAFF REPORT

TO: Prairie Village Planning Commission

FROM: Ron Williamson, FAICP, Lochner, Planning Consultant

DATE: May 6, 2014, Planning Commission Meeting Project # 000009686

Application: PC 2014-112

Request: Site Plan Approval to Add Three New Antennas and Remove

Equipment Cabinets

Property Address: 7231 Mission Road (St. Ann's Church)

Applicant: Spring

Current Zoning and Land Use: R-1B Single-Family Residential District – Church

Surrounding Zoning and Land Use: North: R-1B Single-Family District – Windsor Park

RP-3 Planned Garden Apartment District - Apartments
East: R-1B Single-Family District - Single Family Dwellings

South: R-1B Single-Family District – Single Family Dwellings

C-O Office Building District - Offices

West: R-1B Single-Family District – Single Family Dwellings

Legal Description: Metes and Bounds – Unplatted

Property Area: 9.70 acres

Related Case Files: PC 2011-122 Site Plan Approval for Sprint

PC 2010-113 Monument Sign Approval – Windsor Street

PC 2009-209 Site Plan Approval for Clearwire

PC 2007-120 Monument Sign Approval

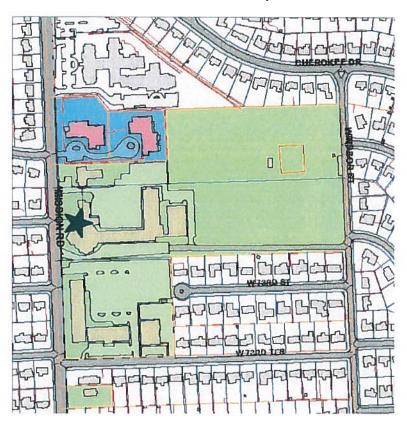
PC 2006-11 Special Use Permit Renewal Sprint/Nextel

PC 2001-06 Special Use Permit for Nextel PC 96-06 Conditional Use Permit for Sprint

PC 87-104 Site Plan Approval for Church Expansion

Attachments: Application, Site Plan, Project Photos

General Location Map



Aerial Map



STAFF COMMENTS:

Sprint is requesting Site Plan Approval to add three antenna panels to the tower at St. Ann's Church and remove three equipment boxes. Currently there are three antenna panels located on the stone panels of the steeple. All the antennas on the brick portion of the steeple have been removed.

In December 2011, the Planning Commission approved the replacement of three antennas and the addition of three new antennas. At that time there were 12 antennas on the steeple. All but three of those antennas have been removed. The brick portion of the steeple has been repaired more satisfactorily than the stone panels. The stone panels need to be cleaned and repaired where the antennas have been removed. At that time, the three equipment cabinets were to be removed within 12 months. The equipment cabinets need to be removed so that adequate space is available in the equipment compound to provide space for other providers.

The applicant has submitted a structural report concluding that the steeple is adequate to support the load of the existing and proposed installation. Actually, the number of antennas and supporting equipment will be less than it was in 2011.

In 1996, the Planning Commission approved a Conditional Use Permit for Sprint on the St. Ann's steeple/tower with the equipment boxes contained within a brick wall extending from the building. In 2001, a Special Use Permit was approved for Nextel. Nextel and Sprint merged and a renewal of the Special Use Permit was approved for Sprint/Nextel in 2006. In 2009 a Site Plan was approved for a Clearwire installation under the new Wireless Communications Ordinance. St. Ann's Church is a stealth wireless communication installation and therefore, under the new ordinance, only requires Site Plan Approval.

Since this is a minor change in the installation, the applicant was not required to hold a neighborhood meeting.

The Planning Commission shall give consideration to the following criteria in approving or disapproving a site plan:

A. The site is capable of accommodating the building, parking areas and drives with appropriate open space and landscape.

The capability of the site to accommodate the equipment compound was addressed in the previous approval of the Conditional Use and Special Use Permits.

- B. Utilities are available with adequate capacity to serve the proposed development.
 - Adequate utilities are available to serve this location.
- c. The plan provides for adequate management of stormwater runoff.

The amount of impervious area will not be changed and, therefore, will not have an impact on stormwater runoff.

- D. The plan provides for safe and easy ingress, egress, and internal traffic circulation.
 - The site utilizes the existing driveway and parking lot for circulation that currently serves it and no changes are proposed.
- E. The plan is consistent with good land planning and good site engineering design principles.

This is a stealth installation and the details of the overall design of the equipment compound and antennas were worked out on the approval of the Conditional Use Permit and subsequent Special Use Permits.

F. An appropriate degree of compatibility will prevail between the architectural quality of the proposed building and the surrounding neighborhood.

This is a stealth installation and the antennas have a very minor impact on the appearance of the church steeple. The equipment cabinets have been incorporated into a brick walled area that is attached to the building and it is not noticeable from the street. The installation has been incorporated into the steeple in a manner so that its visual impact is minimal. The brick and stone surfaces of the steeple need to be cleaned and repaired where the antennas have been removed to improve the appearance.

G. The plan represents an overall development pattern that is consistent with the comprehensive plan and other adopted planning policies.

Wireless communications are not specifically addressed in Village Vision. Generally it falls into maintaining and improving infrastructure.

RECOMMENDATION:

It is the recommendation of Staff that the Planning Commission approve the proposed site plan for Sprint subject to the following conditions:

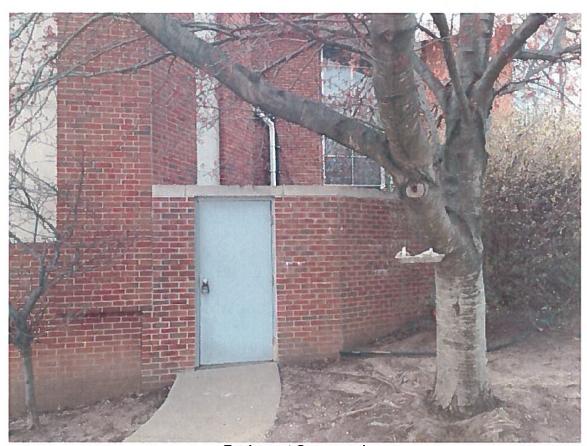
- 1. That the antennas be installed as shown on the proposed site plan.
- 2. That all wiring be contained inside the church steeple.
- 3. That all equipment and wiring shall be below the screening wall.
- 4. That the three existing equipment cabinets shall be removed immediately.
- 5. That the applicant clean and repair the surfaces where the antennas have been removed and restore the surfaces to the original condition.
- 6. That the new antennas shall be painted a color that blends with the brick and stone on the church steeple so that their visibility is minimized.



Antennas



Antennas



Equipment Compound



Planning Commission Application

For Office Use Only	Please complete this form and return with Information requested to:
Case No.: PC 2014-1/2	information requested to.
Filing Fee:	Assistant City Administrator
Deposit:	City of Prairie Village
Date Advertised:	7700 Mission Rd.
Date Notices Sent:	Prairie Village, KS 66208
Public Hearing Date: 5/6/14	
Applicant: SSL, agent for Sprint	
Address: 9900 W./09 451, #300, 0PKs	66210 E-Mail janderson@ssc.us.com
Owner: Roman Catholic Archdiocese	_ Phone Number: <u>9/3.362.3843</u>
Address: 7231 Mission Pd.	Zip: <u>66208</u>
Location of Property: 7231 Mission	PJ.
Legal Description: See Attached	·
detail) Kemoval of Equipment cabine	following: (Describe proposal/request in stremoval of 3 antonnas, change the following of the following of the strenge of the strenge of the following of the strenge of th
	NT TO PAY EXPENSES
the PRAIRIE VILLAGE BOARD OF ZONING A (City) for Site Plan for a wirele	Y may incur certain expenses, such as publication
result of said application. Said costs shall submitted by CITY to APPLICANT. It is und	ble for and to CITY for all cost incurred by CITY as a be paid within ten (10) days of receipt of any bill derstood that no requests granted by CITY or any of osts have been paid. Costs will be owing whether sted in the application.
Applicant's Signature/Date	Owner's Signature/Date



February 14, 2014

Attn: Hazel D. Mauro Real Estate Manager **Sprint Corporation** 6220 Sprint Parkway Overland Park, KS 66251

Re:

Sprint Site Name:

KC03XC182, St Anns Church

Site Address:

7231 Mission Road, Prairie Village, KS 66208

Structure: **Existing Church Steeple**

Dear Ms. Mauro,

As requested, Selective Site Consultants, Inc. (SSC) has reviewed documents regarding the subject site in order to assess its structural capability to support the proposed antenna loadings. Documents reviewed include Fullerton Engineering Consultants final drawings dated 01-18-12, Fullerton Engineering Consultants structural letter dated 02-13-12, Fullerton Engineering Consultants structural analysis dated 09-23-11, Fullerton Engineering Consultants mapping report dated 09-16-11, AMF Electrical Contractors Rev 1 drawings dated 09-08-13 and current photos.

FINAL SPRINT LOADING CONFIGURATION

E/P ¹	Qty ²	Manufacturer	Appurtenance Model	Dimensions (HxWxD, Wt)	CL Elev	Azimuth
Р	1	Tongyu	TYDA- 252718DER4-65P	63.8"x13.0"x5.9" 54.0#	75'	60°, 180°, 300°
Р	1	NSN	FZHJ RRU	14.0"x17.4"x8.7" 51.0#	75'	60°, 180°, 300°
Р	1	NSN	FFHS Filter	10"x12"x3" 15.5#	75'	60°, 180°, 300°
Е	1	ŔĔS	APXVERR18-C	72.0"x11.8"x7.0" 62.5#	75'	60°, 180°, 300°
E	1	Ericsson	800 MHz RRUs 11	17.8"x17.0"x9.2" 54.0#	75'	60°, 180°, 300°
E	2	Ericsson	1900 MHz RRUs 11	17.8"x17.0"x7.2" 44.0#	75'	60°, 180°, 300°

Notes:

1. P = Proposed, E = Existing

2. Quantity equals the number of antennas at each azimuth listed

MOUNTING CONFIGURATION

The proposed antennas are to be mounted on existing pipe mounts attached to the side of the church steeple.

STRUCTURE ANALYSIS

The structure is a brick façade steeple with a roof elevation of 84'-6". The proposed appurtenances will be located below the top of the steeple roof at a centerline elevation of 75'. The proposed antennas will be mounted on the outside of the steeple and will be within the projected surface area of the steeple. Therefore, the antennas will not produce significant additional wind load to the steeple structure. The other appurtenances will be mounted on the inside of the steeple and will not produce any wind load to the structure. The gravity loads of all the appurtenances will be insignificant when compared to the other loads on the steeple.

CONCLUSION

Assuming that the existing structure was built per all applicable codes and adequately supports the existing loads, it is the opinion of SSC that the existing structure will be adequate to support the proposed Sprint installation.

Thank you, and please feel free to contact us if you require further information.

Sincerely,

Nich Kufeldt, P.E.

Nick Kufeldt, P.E.



PROJECT:

2.5 EQUIPMENT DEPLOYMENT

SITE NAME:

ST. ANN'S CHURCH

SITE CASCADE:

KC03XC182

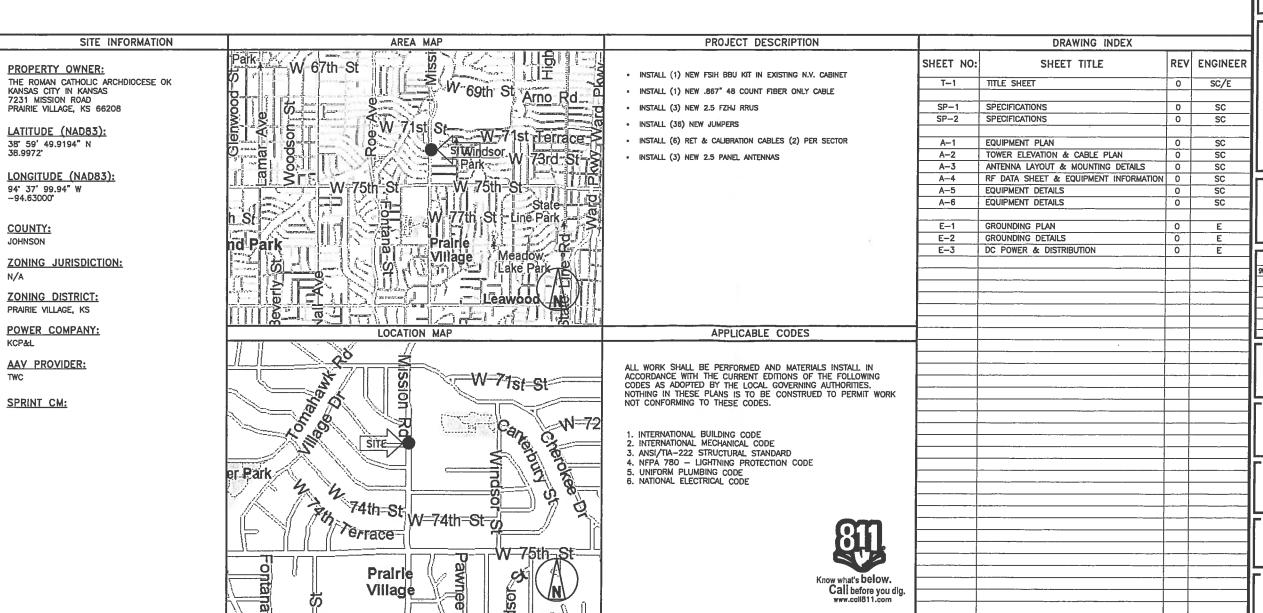
SITE ADDRESS:

7231 MISSION ROAD

PRAIRIE VILLAGE, KS 66208

SITE TYPE:

ROOFTOP





= PLANS PREPARED BY:



Overland Park, Kansas 66210 Phone: 913-438-7700 Fax: 913-438-7777

IGINEERING LICENSE:

STATE OF MISSOURI
PE CERTIFICATE OF AUTHORIZATION #001640

MLO MICHAEL L. OWENS E-29058 STRUCTURAL/CML SC

REJ ROBERT E. JENSEN E-28974 STRUCTURAL/CIVIL SC

SDK SHELTON D. KEISLING E-27323 ELECTRICAL

DEK DAVE E. KASPER E-18063 ELECTRICAL

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SITE NAME: -

ST. ANN'S CHURCH

= SITE CASCADE: -

KC03XC182

7231 MISSION ROAD PRAIRIE VILLAGE, KANSAS 66208

SHEET DESCRIPTION

TITLE SHEET

SHEET NUMBER:

T-1

THESE OUTLINE SPECIFICATIONS IN CONJUNCTION WITH THE SPRINT STANDARD CONSTRUCTION SPECIFICATIONS, INCLUDING CONTRACT DOCUMENTS AND THE CONSTRUCTION DRAWINGS DESCRIBE THE WORK TO BE PERFORMED BY THE CONTRACTOR.

SECTION 01 100 - SCOPE OF WORK

THE WORK: SHALL COMPLY WITH APPLICABLE NATIONAL CODES AND STANDARDS, LATEST EDITION, AND

SHOULD CONFLICTS OCCUR BETWEEN THE STANDARD CONSTRUCTION SPECIFICATIONS FOR WIRELESS SITES INCLUDING THE STANDARD CONSTRUCTION DETAILS FOR WIRELESS SITES AND THE CONSTRUCTION DRAWINGS, INFORMATION ON THE CONSTRUCTION DRAWINGS SHALL

SITE FAMILIARITY:
CONTRACTOR SHALL BE RESPONSIBLE FOR FAMILIARIZING HIMSELF WITH ALL CONTRACT
DOCUMENTS, FIELD CONDITIONS AND DIMENSIONS PRIOR TO PROCEEDING WITH

<u>ON-SITE SUPERVISION:</u>
THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK AND SHALL BE RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.

<u>DRAWINGS. SPECIFICATIONS AND DETAILS REQUIRED AT JOBSITE:</u>
THE CONSTRUCTION CONTRACTOR SHALL MAINTAIN A FULL SET OF THE CONSTRUCTION DRAWINGS AT THE JOBSITE FROM MOBILIZATION THROUGH CONSTRUCTION COMPLETION.

- A. DETAILS ARE INTENDED TO SHOW DESIGN INTENT. PROVIDE ALL MATERIALS AND LABOR AS REQUIRED TO PROVIDE A COMPLETE AND FUNCTIONING SYSTEM. MODIFICATIONS MAY BE REQUIRED TO SUIT JOB DIMENSIONS OR CONDITIONS, AND SUCH MODIFICATIONS SHALL BE INCLUDED AS PART OF THE WORK.
- B. CONTRACTOR SHALL NOTIFY SPRINT CONSTRUCTION MANAGER OF ANY VARIATIONS PRIOR TO PROCEEDING WITH THE WORK, DIMENSIONS SHOWN ARE TO FINISH SURFACES UNLESS NOTED OTHERWISE. MODIFICATIONS MAY BE REQUIRED TO SUIT JOB DIMENSIONS OR CONDITIONS, AND SUCH MODIFICATIONS SHALL BE INCLUDED
- C. MARK THE FIELD SET OF DRAWINGS IN RED, DOCUMENTING ANY CHANGES FROM THE CONSTRUCTION DOCUMENTS.

METHODS OF PROCEDURE (MOPS) FOR CONSTRUCTION; CONTRACTOR SHALL PERFORM WORK AS DESCRIBED IN THE FOLLOWING INSTALLATION AND

- HOW TO INSTALL A NEW CABINET
- BASE BAND UNIT IN EXISTING UNIT INSTALLATION OF BATTERIES
- INSTALLATION OF HYBRID CARLE
- INSTALLATION OF RRU'S
- CABLING
 TS-0200 REV 4 ANTENNA LINE ACCEPTANCE STANDARDS
- SPRINT CELL SITE ENGINEERING NOTICE EN 2012-001, REV 1. COMMISSIONING MOPS

SECTION 01 200 - COMPANY FURNISHED MATERIAL AND EQUIPMENT

COMPANY FURNISHED MATERIAL AND EQUIPMENT IS IDENTIFIED ON THE RF DATA SHEET IN

CONTRACTOR IS RESPONSIBLE FOR SPRINT PROVIDED MATERIAL AND EQUIPMENT TO ENSURE IT IS PROTECTED AND HANDLED PROPERLY THROUGHOUT THE CONSTRUCTION

CONTRACTOR RESPONSIBLE FOR RECEIPT OF SPRINT FURNISHED EQUIPMENT AT CELL SITE OR CONTRACTORS LOCATION. CONTRACTOR TO COMPLETE SHIPPING AND RECEIPT DOCUMENTATION IN ACCORDANCE WITH COMPANY PRACTICE.

SECTION 01 300 - CELL SITE CONSTRUCTION CO.

NOTICE TO PROCEED:

NO WORK SHALL COMMENCE PRIOR TO COMPANY'S WRITTEN NOTICE TO PROCEED AND THE ISSUANCE OF WORK ORDER.

SITE CLEANLINESS:
CONTRACTOR SHALL KEEP THE SITE FREE FROM ACCUMULATING WASTE MATERIAL, DEBRIS, AND TRASH. AT THE COMPLETION OF THE WORK, CONTRACTOR SHALL REMOVE FROM THE SITE ALL REMAINING RUBBISH, IMPLEMENTS, TEMPORARY FACILITIES, AND SURPLUS

SECTION 01 400 - SUBMITTALS & TESTS

AT THE COMPANY'S REQUEST, ANY ALTERNATIVES TO THE MATERIALS OR METHODS SPECIFIED SHALL BE SUBMITTED TO SPRINTS CONSTRUCTION MANAGER FOR APPROVAL. SPRINT WILL REVIEW AND APPROVE ONLY THOSE REQUESTS MADE IN WRITING. NO VERBAL

TESTS AND INSPECTIONS:

- A. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CONSTRUCTION TESTS, INSPECTIONS AND PROJECT DOCUMENTATION.
- B. CONTRACTOR SHALL ACCOMPLISH TESTING INCLUDING BUT NOT LIMITED TO THE
- 1. COAX SWEEPS AND FIBER TESTS PER TS-D200 REV 4 ANTENNA LINE ACCEPTANCE
- AGL, AZIMUTH AND DOWNTILT PROVIDE AN AUTOMATED REPORT UPLOADED TO SITERRA USING A COMMERCIAL MADE—FOR THE PURPOSE ELECTRONIC ANTENNA ALIGNMENT TOOL (AAT). INSTALLED AZIMUTH, CENTERLINE AND DOWNTILT MUST CONFORM WITH RF CONFIGURATION DATA

- 3. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY AND ALL CORRECTIONS TO ANY WORK IDENTIFIED AS UNACCEPTABLE IN SITE INSPECTION ACTIVITIES AND/OR AS A RESULT OF TESTING.
- 4. ALL TESTING REQUIRED BY APPLICABLE INSTALLATION MOPS.
- C. REQUIRED CLOSEOUT DOCUMENTATION INCLUDES, BUT IS NOT LIMITED TO THE
- AZIMUTH, DOWNTILT, AGL FROM SUNSIGHT INSTRUMENTS ANTENNALIGN ALIGNMENT TOOL (AAT)
- 2. SWEEP AND FIBER TESTS
- 3. SCANABLE BARCODE PHOTOGRAPHS OF TOWER TOP AND INACCESSIBLE SERIALIZED
- 4. ALL AVAILABLE JURISDICTIONAL INFORMATION
- 5. PDF SCAN OF REDLINES PRODUCED IN FIELD
- 6. A PDF SCAN OF REDLINE MARK-UPS SUITABLE FOR USE IN ELECTRONIC AS-BUILT DRAWING PRODUCTION
- LIEN WAIVERS
- 8. FINAL PAYMENT APPLICATION
- 9. REQUIRED FINAL CONSTRUCTION PHOTOS
- 10. CONSTRUCTION AND COMMISSIONING CHECKLIST COMPLETE WITH NO DEFICIENT
- 11. ALL POST NTP TASKS INCLUDING DOCUMENT UPLOADS COMPLETED IN SITERRA (SPRINTS DOCUMENT REPOSITORY OF RECORD).
- O PROVIDE PHOTOGRAPHS OF FINAL PROJECT PER THE FOLLOWING LIST. ADDITIONAL PHOTOGRAPHS MAY BE REQUIRED TO SUPPORT ACCEPTANCE PROCESSES
 - (i) BACK MAIN HYBRID CABLE ROUTE (MINIMUM TWO PHOTOS)
- (ii) OF EACH ANTENNA AND RRU
- (iii) MANUFACTURERS NAME TAG FOR ALL SERIALIZED EQUIPMENT
- (iv) PULL AND DISTRIBUTION BOXES INTERMEDIATE BETWEEN RRU'S AND MMBS (DOOR
- (v) MMBS CABINET WITH DOOR OPEN SHOWING MODIFICATIONS
- (vi) POWER CABINET, DOORS OPEN, BATTERIES INSTALLED
- (vii) BREAK OUT CYLINDERS
- (viii) ASR SIGNAGE FOR SPRINT OWNED TOWERS
- (ix) RADIATION EXPOSURE WARNING SIGNS
- (x) PHOTOGRAPH FROM EACH SECTOR FROM APPROXIMATELY RAD CENTER OF ANY NEW ANTENNA AT HORIZON.
- b LOAD PHOTOS TO SITERRA PROJECT LIBRARY 15. IN 15 CREATE NEW CATEGORY; 2.5 DEPLOYMENT, AND SECTION; PERMANENT CONSTRUCTION. LABEL PHOTOS WITH SITE CASCADE AND VIEW BEING DEPICTED. CAMERAS USED TO TAKE PHOTOGRAPHS SHALL GPS ENABLED SUCH THAT THE GPS COORDINATES ARE INCLUDED IN THE PHOTO

COMMISSIONING:
PERFORM ALL COMMISSIONING AS REQUIRED BY APPLICABLE MOPS

 $\begin{array}{l} \underline{\text{INTEGRATION:}} \\ \text{PERFORM ALL INTEGRATION ACTIVITIES AS REQUIRED BY APPLICABLE MOPS} \end{array}$

SECTION 09 900 - PAINTING

QUALITY ASSURANCE:

- A. COMPLY WITH GOVERNING CODES AND REGULATIONS. PROVIDE PRODUCTS OF ACCEPTABLE MANUFACTURERS WHICH HAVE BEEN IN SATISFACTORY USE IN SIMILAR SERVICE FOR THREE YEARS. USE EXPERIENCED INSTALLERS. DELIVER, HANDLE, AND STORE MATERIALS IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
- B. COMPLY WITH ALL ENVIRONMENTAL REGULATIONS FOR VOLATILE ORGANIC COMPOUNDS.
- A. MANUFACTURERS: BENJAMIN MOORE, ICI DEVOE COATINGS, PPG, SHERWIN WILLIAMS OR APPROVED EQUAL. PROVIDE PREMIUM GRADE, PROFESSIONAL—QUALITY PRODUCTS FOR COATING SYSTEMS

PAINT SCHEDULE:

- A. EXTERIOR ANTENNAE AND ANTENNA MOUNTING HARDWARE: ONE COAT OF PRIMER AND TWO FINISH COATS. PAINT FOR ANTENNAE SHALL BE NON-METALLIC BASED AND CONTAIN NO METALLIC PARTICLES. PROVIDE COLORS AND PATTERNS AS REQUIRED TO MASK APPEARANCE OF ANTENNAE ON ADJACENT BUILDING SURFACES AND AS ACCEPTABLE TO THE OWNER. REFER TO ANTENNA MANUFACTURER'S INSTRUCTIONS
- B. WATER TANKS: TOUCH UP PREPARE SURFACES TO BE REPAIRED. FOLLOW INDUSTRY STANDARDS AND REQUIREMENTS OF OWNER TO MATCH EXISTING COATING

- INSPECT SURFACES, REPORT UNSATISFACTORY CONDITIONS IN WRITING; BEGINNING WORK MEANS ACCEPTANCE OF SUBSTRATE.
- COMPLY WITH MANUFACTURER'S INSTRUCTIONS AND RECOMMENDATIONS FOR PREPARATION, PRIMING AND COATING WORK. COORDINATE WITH WORK OF OTHER
- 3. MATCH APPROVED MOCK-UPS FOR COLOR, TEXTURE, AND PATTERN. RE-COAT OR REMOVE AND REPLACE WORK WHICH DOES NOT MATCH OR SHOWS LOSS OF
- 4. CLEAN UP, TOUCH UP AND PROTECT WORK.

TOUCHUP PAINTING

- GALVANIZING DAMAGE AND ALL BOLTS AND NUTS SHALL BE TOUCHED UP AFTER TOWER ERECTION WITH "GALVANOX," "DRY GALV," OR "ZINC-IT."
- 2. FIELD TOUCHUP PAINT SHALL BE DONE IN ACCORDANCE WITH THE MANUFACTURER'S
- ALL METAL COMPONENTS SHALL BE HANDLED WITH CARE TO PREVENT DAMAGE TO THE COMPONENTS, THEIR PRESERVATIVE TREATMENT, OR THEIR PROTECTIVE

SECTION 11 700 - ANTENNA ASSEMBLY, REMOTE RADIO UNITS AND CABLE INSTALLATION

SUMMARY:

THIS SECTION SPECIFIES INSTALLATION OF ANTENNAS, RRU'S, AND CABLE EQUIPMENT, INSTALLATION, AND TESTING OF COAXIAL FIBER CABLE.

THE NUMBER AND TYPE OF ANTENNAS AND RRU'S TO BE INSTALLED IS DETAILED ON THE CONSTRUCTION DRAWINGS.

HYBRID CABLE WILL BE DC/FIBER AND FURNISHED FOR INSTALLATION AT EACH SITE. CABLE SHALL BE INSTALLED PER THE CONSTRUCTION DRAWINGS AND THE APPLICABLE MANUFACTURER'S REQUIREMENTS.

JUMPERS AND CONNECTORS:
FURNISH AND INSTALL 1/2" COAX JUMPER CABLES BETWEEN THE RRU'S AND ANTENNAS. JUMPERS SHALL BE TYPE LDF 4, FLC 12-50, CR 540, OR FXL 540. SUPER-FLEX CABLES ARE NOT ACCEPTABLE. JUMPERS BETWEEN THE RRU'S AND ANTENNAS OR TOWER TOP AMPLIFIERS SHALL CONSIST OF 1/2 INCH FOAM DIELECTRIC, OUTDOOR RATED COAXIAL CABLE, MIN LENGTH FOR JUMPER SHALL BE 10"-0".

 ${\color{red} \underline{\textbf{MISCELLANEOUS:}}}\\ {\color{blue} \textbf{INSTALL SPLITTERS, COMBINERS, FILTERS PER RF DATA SHEET, FURNISHED BY SPRINT.}}$

ANTENNA INSTALLATION:
THE CONTRACTOR SHALL ASSEMBLE ALL ANTENNAS ONSITE IN ACCORDANCE WITH THE INSTRUCTIONS SUPPLIED BY THE MANUFACTURER. ANTENNA HEIGHT, AZIMUTH, AND FEED ORIENTATION INFORMATION SHALL BE A DESIGNATED ON THE CONSTRUCTION DRAWINGS.

- A. THE CONTRACTOR SHALL POSITION THE ANTENNA ON TOWER PIPE MOUNTS SO THAT THE BOTTOM STRUT IS LEVEL. THE PIPE MOUNTS SHALL BE PLUMB TO WITHIN
- B. ANTENNA MOUNTING REQUIREMENTS: PROVIDE ANTENNA MOUNTING HARDWARE AS

HYBRID CABLES INSTALLATION:

- A. THE CONTRACTOR SHALL ROUTE, TEST, AND INSTALL ALL CABLES AS INDICATED ON THE CONSTRUCTION DRAWINGS AND IN ACCORDANCE WITH THE MANUFACTURER'S
- B. THE INSTALLED RADIUS OF THE CABLES SHALL NOT BE LESS THAN THE MANUFACTURER'S SPECIFICATIONS FOR BENDING RADII.
- C. EXTREME CARE SHALL BE TAKEN TO AVOID DAMAGE TO THE CABLES DURING HANDLING
- 1. FASTENING MAIN HYBRID CABLES: ALL CABLES SHALL BE PERMANENTLY FASTENED TO THE COAX LADDER AT 4'-O' OC USING NON-MAGNETIC STAINLESS STEEL CLIPS.
- 2. FASTENING INDIVIDUAL FIBER AND DC CABLES ABOVE BREAKOUT ENCLOSURE (MEDUSA), WITHIN THE MMBS CABINET AND ANY INTERMEDIATE DISTRIBUTION BOXES:
- G. FIBER: SUPPORT FIBER BUNDLES USING ½" VELCRO STRAPS OF THE REQUIRED LENGTH © 18" OC. STRAPS SHALL BE UV, OIL AND WATER RESISTANT AND SUITABLE FOR INDUSTRIAL INSTALLATIONS AS MANUFACTURED BY TEXTOL OR
- b. DC: SUPPORT DC BUNDLES WITH ZIP TIES OF THE ADEQUATE LENGTH. ZIP TIES TO BE UV STABILIZED, BLACK NYLON, WITH TENSILE STRENGTH AT 12,000 PSI AS MANUFACTURED BY NELCO PRODUCTS OR EQUAL.
- 3. FASTENING JUMPERS: SECURE JUMPERS TO THE SIDE ARMS OR HEAD FRAMES USING STAINLESS STEEL TIE WRAPS OR STAINLESS STEEL BUTTERFLY CLIPS.
- a. INSPECT CABLE PRIOR TO USE FOR SHIPPING DAMAGE, NOTIFY THE
- b. Cable routing: Cable installation shall be planned to ensure that the lines will be properly routed in the Cable envelop as indicated on THE DRAWINGS. AVOID TWISTING AND CROSSOVERS.
- c. HOIST CABLE USING PROPER HOISTING GRIPS. DO NOT EXCEED MANUFACTURES RECOMMENDED MAXIMUM BEND RADIUS.

6580 Sprint Parkway Overland Park, Kansas 66251



9900 West 109th Street, Suite 300 Overland Park, Kansas 66210 Phone: 913-438-7700 Fax: 913-438-7777

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SHEET DESCRIPTION:

SPECIFICATIONS

CONTINUE FROM SP-1

- GROUNDING OF TRANSMISSION LINES: ALL TRANSMISSION LINES SHALL BE GROUNDED AS INDICATED ON DRAWINGS.
- 6. HYBRID CABLE COLOR CODING: ALL COLOR CODING SHALL BE AS REQUIRED IN TS
- HYBRID CABLE LABELING: INDIVIDUAL HYBRID AND DC BUNDLES SHALL BE LABELED ALPHA-NUMERICALLY ACCORDING TO SPRINT CELL SITE ENGINEERING NOTICE EN

WEATHERPROOFING EXTERIOR CONNECTORS AND HYBRID CABLE GROUND KITS:

- A. ALL FIBER & COAX CONNECTORS AND GROUND KITS SHALL BE WEATHERPROOFED.
- B. WEATHERPROOFED USING ONE OF THE FOLLOWING METHODS. ALL INSTALLATIONS MUST BE DONE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND
- COLD SHRINK: ENCOMPASS CONNECTOR IN COLD SHRINK TUBING AND PROVIDE A DOUBLE WRAP OF 2" ELECTRICAL TAPE EXTENDING 2" BEYOND TUBING. PROVIDE 3M COLD SHRINK CXS SERIES OR EQUAL.
- 2. SELF-AMALGAMATING TAPE: CLEAN SURFACES. APPLY A DOUBLE WRAP OF SELF-AMALGAMATING TAPE 2" BEYOND CONNECTOR, APPLY A SECOND WRAP OF SELF-AMALGAMATING TAPE IN OPPOSITE DIRECTION. APPLY DOUBLE WRAP OF 2" WIDE ELECTRICAL TAPE EXTENDING 2" BEYOND THE SELF-AMALGAMATING TAPE.
- 3. 3M SLIM LOCK CLOSURE 716: SUBSTITUTIONS WILL NOT BE ALLOWED.
- 4. OPEN FLAME ON JOB SITE IS NOT ACCEPTABLE

SECTION 11 800 - INSTALLATION OF MULTIMODAL BASE STATIONS (MMBS) AND RELATED EQUIPMENT

- A. THIS SECTION SPECIFIES MMBS CABINETS, POWER CABINETS, AND INTERNAL EQUIPMENT INCLUDING BY NOT LIMITED TO RECTIFIERS, POWER DISTRIBUTION UNITS, BASE BAND UNITS, SURGE ARRESTORS, BATTERIES, AND SIMILAR EQUIPMENT FURNISHED BY THE COMPANY FOR INSTALLATION BY THE CONTRACTOR (OFCI).
- B. CONTRACTOR SHALL PROVIDE AND INSTALL ALL MISCELLANEOUS MATERIALS AND PROVIDE ALL LABOR REQUIRED FOR INSTALLATION EQUIPMENT IN EXISTING CABINET OR NEW CABINET AS SHOWN ON DRAWINGS AND AS REQUIRE BY THE APPLICABLE
- C. COMPLY WITH MANUFACTURERS INSTALLATION AND START-UP REQUIREMENTS

DC CIRCUIT BREAKER LABELING

A. LABEL CIRCUIT BREAKERS ACCORDING TO SPRINT CELL SITE ENGINEERING NOTICE - EN 2012-001, REV 1.

SECTION 26 100 - BASIC ELECTRICAL REQUIREMENTS

 $\begin{array}{l} \underline{\text{SUMMARY:}} \\ \text{THIS SECTION SPECIFIES BASIC ELECTRICAL REQUIREMENTS FOR SYSTEMS AND} \end{array}$ COMPONENTS.

QUALITY ASSURANCE:

- A. ALL EQUIPMENT FURNISHED UNDER DIMISION 26 SHALL CARRY UL LABELS AND LISTINGS WHERE SUCH LABELS AND LISTINGS ARE AVAILABLE IN THE INDUSTRY.
- B. MANUFACTURERS OF EQUIPMENT SHALL HAVE A MINIMUM OF THREE YEARS EXPERIENCE WITH THEIR EQUIPMENT INSTALLED AND OPERATING IN THE FIELD IN A USE SIMILAR TO THE PROPOSED USE FOR THIS PROJECT.
- C. MATERIALS AND EQUIPMENT: ALL MATERIALS AND EQUIPMENT SPECIFIED IN DIVISION 26 OF THE SAME TYPE SHALL BE OF THE SAME MANUFACTURER AND SHALL BE NEW, OF THE BEST QUALITY AND DESIGN, AND FREE FROM DEFECTS

SUPPORTING DEVICES:

- A. ALL EQUIPMENT FURNISHED UNDER DIVISION 26 SHALL CARRY UL LABELS AND LISTINGS WHERE SUCH LABELS AND LISTINGS ARE AVAILABLE IN THE INDUSTRY.
- B. MANUFACTURERS OF EQUIPMENT SHALL HAVE A MINIMUM OF THREE YEARS EXPERIENCE WITH THEIR EQUIPMENT INSTALLED AND OPERATING IN THE FIELD IN A USE SIMILAR TO THE PROPOSED USE FOR THIS PROJECT.
- C. MATERIALS AND EQUIPMENT:
 ALL MATERIALS AND EQUIPMENT SPECIFIED IN DIVISION 26 OF THE SAME TYPE SHALL BE OF THE SAME MANUFACTURER AND SHALL BE NEW, OF THE BEST QUALITY AND DESIGN, AND FREE FROM DEFECTS

SUPPORTING DEVICES:

- A. MANUFACTURED STRUCTURAL SUPPORT MATERIALS: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE PRODUCTS BY THE FOLLOWING:
- 1. ALLIED TUBE AND CONDUIT
- 2. B-LINE SYSTEM
- 3. SUNISTRUT DIVERSIFIED PRODUCTS
- 4. THOMAS & BETTS
- B. FASTENERS: TYPES, MATERIALS, AND CONSTRUCTION FEATURES AS FOLLOWS:
- 1. EXPANSION ANCHORS: CARBON STEEL WEDGE OR SLEEVE TYPE
- 2. POWER-DRIVEN THREADED STUDS: HEAT-TREATED STEEL, DESIGNED SPECIFICALLY FOR THE INTENDED SERVICE.
- 3. FASTEN BY MEANS OF WOOD SCREWS ON WOOD.
- 4. TOGGLE BOLTS ON HOLLOW MASONRY UNITS
- 5. CONCRETE INSERTS OR EXPANSION BOLTS ON CONCRETE OR SOLID MASONRY.
- 6. MACHINE SCREWS, WELDED THREADED STUDS, OR SPRING-TENSION CLAMPS ON
- 7. EXPLOSIVE DEVICES FOR ATTACHING HANGERS TO STRUCTURE SHALL NOT BE
- 8. DO NOT WELD CONDUIT, PIPE STRAPS, OR ITEMS OTHER THAN THREADED STUDS TO STEEL STRUCTURES.
- 9. IN PARTITIONS OF LIGHT STEEL CONSTRUCTION, USE SHEET METAL SCREWS.

SUPPORTING DEVICES:

- A. INSTALL SUPPORTING DEVICES TO FASTEN ELECTRICAL COMPONENTS SECURELY AND PERMANENTLY IN ACCORDANCE WITH NEC.
- B. COORDINATE WITH THE BUILDING STRUCTURAL SYSTEM AND WITH OTHER TRADES.
- C. UNLESS OTHERWISE INDICATED ON THE DRAWINGS, FASTEN ELECTRICAL ITEMS AND THEIR SUPPORTING HARDWARE SECURELY TO THE STRUCTURE IN ACCORDANCE WITH
- D. ENSURE THAT THE LOAD APPLIED BY ANY FASTENER DOES NOT EXCEED 25 PERCENT OF THE PROOF TEST LOAD.
- E. USE VIBRATION AND SHOCK-RESISTANT FASTENERS FOR ATTACHMENTS TO CONCRETE

ELECTRICAL IDENTIFICATION:

- A. UPDATE AND PROVIDE TYPED CIRCUIT BREAKER SCHEDULES IN THE MOUNTING BRACKET, INSIDE DOORS OF AC PANEL BOARDS WITH ANY CHANGES MADE TO THE AC SYSTEM.
- B. BRANCH CIRCUITS FEEDING AVIATION OBSTRUCTION LIGHTING EQUIPMENT SHALL BE CLEARLY IDENTIFIED AS SUCH AT THE BRANCH CIRCUIT PANELBOARD.

SECTION 26 200 - ELECTRICAL MATERIALS AND EQUIPMENT CONDUIT:

- A. RIGID GALVANIZED STEEL (RGS) CONDUIT SHALL BE USED FOR EXTERIOR LOCATIONS ABOVE GROUND AND IN UNFINISHED INTERIOR LOCATIONS AND FOR ENCASED RUNS IN CONCRETE. RIGID CONDUIT AND FITTINGS SHALL BE STEEL, COATED WITH ZINC EXTERIOR AND INTERIOR BY THE HOT DIP GALVANIZING PROCESS. CONDUIT SHALL BE PRODUCED TO ANSI SPECIFICATIONS C80.1, FEDERAL SPECIFICATION WW-C-581 AND SHALL BE LISTED WITH THE UNDERWRITERS' LABORATORIES. FITTINGS SHALL BE THREADED - SET SCREW OR COMPRESSION FITTINGS WILL NOT BE ACCEPTABLE. RGS CONDUITS SHALL BE MANUFACTURED BY ALLIED, REPUBLIC OR WHEATLAND.
- B. UNDERGROUND CONDUIT SHALL BE POLYVINYLCHLORIDE (PVC) SUITABLE FOR DIRECT BURIAL AS APPLICABLE. JOINTS SHALL BE BELLED, AND FLUSH SOLVENT WELDED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. CONDUIT SHALL BE CARLON ELECTRICAL PRODUCTS OR APPROVED EQUAL.
- C. TRANSITIONS BETWEEN PVC AND RIGID (RGS) SHALL BE MADE WITH PVC COATED METALLIC LONG SWEEP RADIUS ELBOWS
- D. EMT OR RIGID GALVANIZED STEEL CONDUIT MAY BE USED IN FINISHED SPACES CONCEALED IN WALLS AND CEILINGS. EMT SHALL BE MILD STEEL, ELECTRICALLY WELDED, ELECTRO—GALVANIZED OR HOT—DIPPED GALVANIZED AND PRODUCED TO ANSI SPECIFICATION C80.3, FEDERAL SPECIFICATION WW-C-563, AND SHALL BE UL LISTED. EMT SHALL BE MANUFACTURED BY ALLIED, REPUBLIC OR WHEATLAND, OR APPROVED EQUAL FITTINGS SHALL BE METALLIC COMPRESSION. SET SCREW CONNECTIONS SHALL
- E. LIQUID TIGHT FLEXIBLE METALLIC CONDUIT SHALL BE USED FOR FINAL CONNECTION TO EQUIPMENT. FITTINGS SHALL BE METALLIC GLAND TYPE COMPRESSION FITTINGS, MAINTAINING THE INTEGRITY OF CONDUIT SYSTEM. SET SCREW CONNECTIONS SHALL NOT BE ACCEPTABLE. MAXIMUM LENGTH OF FLEXIBLE CONDUIT SHALL NOT EXCEED 6—FEET. LFMC SHALL BE PROTECTED AND SUPPORTED AS REQUIRE BY NEC. MANUFACTURERS OF FLEXIBLE CONDUITS SHALL BE CAROL, ANACONDA METAL HOSE OR UNIVERSAL METAL HOSE, OR APPROVED EQUAL.
- F. MINIMUM SIZE CONDUIT SHALL BE 3/4 INCH (21MM).

HUBS AND BOXES:

- A. AT ENTRANCES TO CABINETS OR OTHER EQUIPMENT NOT HAVING INTEGRAL THREADED HUBS PROVIDE METALLIC THREADED HUBS OF THE SIZE AND CONFIGURATION REQUIRED. HUB SHALL INCLUDE LOCKNUT AND NEOPRENE O-RING SEAL. PROVIDE IMPACT RESISTANT 105 DEGREE C PLASTIC BUSHINGS TO PROTECT CABLE INSULATION.
- B. CABLE TERMINATION FITTINGS FOR CONDUIT
 - 1. CABLE TERMINATORS FOR RGS CONDUITS SHALL BE TYPE CRC BY O-Z/GEDNEY OR
 - 2. CABLE TERMINATORS FOR LFMC SHALL BE ETCO CL2075; OR MADE FOR THE PURPOSE PRODUCTS BY ROXTEC.
- C. EXTERIOR PULL BOXES AND PULL BOXES IN INTERIOR INDUSTRIAL AREAS SHALL BE PLATED CAST ALLOY, HEAVY DUTY, WEATHERPROOF, DUST PROOF, WITH GASKET, PLATED IRON ALLOY COVER AND STAINLESS STEEL COVER SCREWS, CROUSE—HINDS WAB SERIES
- D. CONDUIT OUTLET BODIES SHALL BE PLATED CAST ALLOY WITH SIMILAR CASKETED COVERS. OUTLET BODIES SHALL BE OF THE CONFIGURATION AND SIZE SUITABLE FOR THE APPLICATION. PROVIDE CROUSE-HINDS FORM 8 OR EQUAL.
- E. MANUFACTURER FOR BOXES AND COVERS SHALL BE HOFFMAN, SQUARE "D". CROUSE-HINDS, COOPER, ADALET, APPLETON, O-Z GEDNEY, RACO, OR APPROVED

SUPPLEMENTAL GROUNDING SYSTEM

- A. FURNISH AND INSTALL A SUPPLEMENTAL GROUNDING SYSTEM AS INDICATED ON THE DRAWINGS. SUPPORT SYSTEM WITH NON-MACNETIC STAINLESS STEEL CLIPS WITH RUBBER GROMMETS. GROUNDING CONNECTORS SHALL BE TINNED COPPER WIRE, SIZES AS INDICATED ON THE DRAWINGS. PROVIDE STRANDED OR SOLID BARE OR INSULATED CONDUCTORS AS INDICATED.
- SUPPLEMENTAL GROUNDING SYSTEM: ALL CONNECTIONS TO BE MADE WITH CAD WELDS, EXCEPT AT EQUIPMENT USE LUGS OR OTHER AVAILABLE GROUNDING MEANS AS REQUIRED BY MANUFACTURER; AT GROUND BARS USE TWO HOLE SPADES WITH NO OX.
- C. STOLEN GROUND-BARS: IN THE EVENT OF STOLEN GROUND BARS, CONTACT SPRINT CM FOR REPLACEMENT INSTRUCTION USING THREADED ROD KITS.

EXISTING STRUCTURE:

EXISTING EXPOSED WIRING AND ALL EXPOSED OUTLETS, RECEPTACLES, SWITCHES, DEVICES, BOXES, AND OTHER EQUIPMENT THAT ARE NOT TO BE UTILIZED IN THE COMPLETED PROJECT SHALL BE REMOVED OR DE-ENERGIZED AND CAPPED IN THE WALL, CEILING, OR FLOOR SO THAT THEY ARE CONCEALED AND SAFE. WALL, CEILING,

CONDUIT AND CONDUCTOR INSTALLATION:

- A. CONDUITS SHALL BE FASTENED SECURELY IN PLACE WITH APPROVED NON-PERFORATED STRAPS AND HANGERS. EXPLOSIVE DEVICES FOR ATTACHING HANGERS TO STRUCTURE WILL NOT BE PERMITTED. CLOSELY FOLLOW THE LINES OF THE STRUCTURE, MAINTAIN CLOSE PROXIMITY TO THE STRUCTURE AND KEEP CONDUITS IN TIGHT ENVELOPES. CHANGES IN DIRECTION TO ROUTE AROUND OBSTACLES SHALL BE MADE WITH CONDUIT OUTLET BODIES. CONDUIT SHALL BE INSTALLED IN A NEAT AND WORKMANLIKE MANNER PARALLEL AND PERPENDICULAR TO STRUCTURE WALL AND CEILING LINES. ALL CONDUIT SHALL BE FISHED TO CLEAR OBSTRUCTIONS. ENDS OF CONDUITS SHALL BE TEMPORARILY CAPPED TO PREVENT CONCRETE, PLASTER OR DIRT FROM ENTERING. CONDUITS SHALL BE RIGIDLY CLAMPED TO BOXES BY GALVANIZED MALLEABLE IRON BUSHING ON INSIDE AND GALVANIZED MALLEABLE IRON LOCKNUT ON OUTSIDE AND
- B. CONDUCTORS SHALL BE PULLED IN ACCORDANCE WITH ACCEPTED GOOD PRACTICE.



PLANS PREPARED BY:

I ANS PREPARED FOR:



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KV KEVIN VANMAELE E-21561 STRUCTURAL/CIVIL SC

REJ ROBERT E. JENSEN E-28974 STRUCTURAL/CML SC

TMS TERRANCE M. SUPER E-18521 ELECTRICAL

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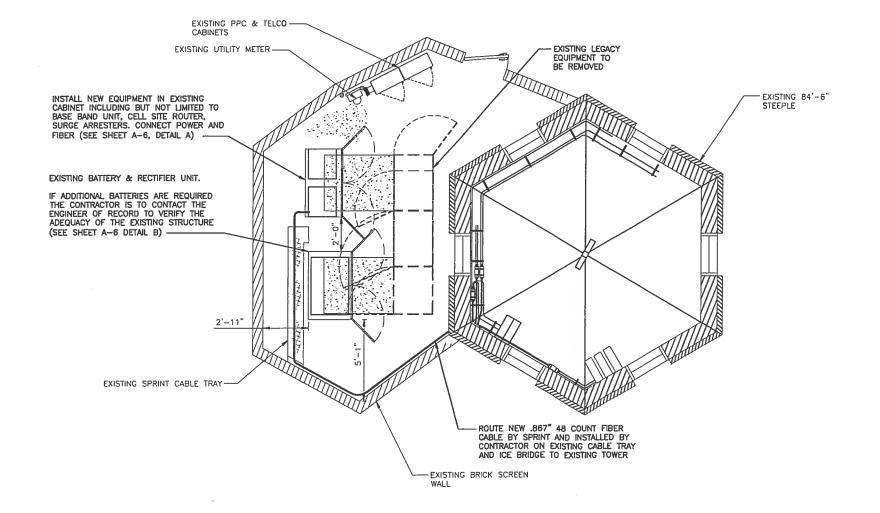
SITE ADDRESS

7231 MISSION ROAD PRAIRIE VILLAGE, KANSAS

SHEET DESCRIPTION

SPECIFICATIONS

SHEET NUMBER:



PLANS PREPARED FOR:



PLANS PREPARED BY: =



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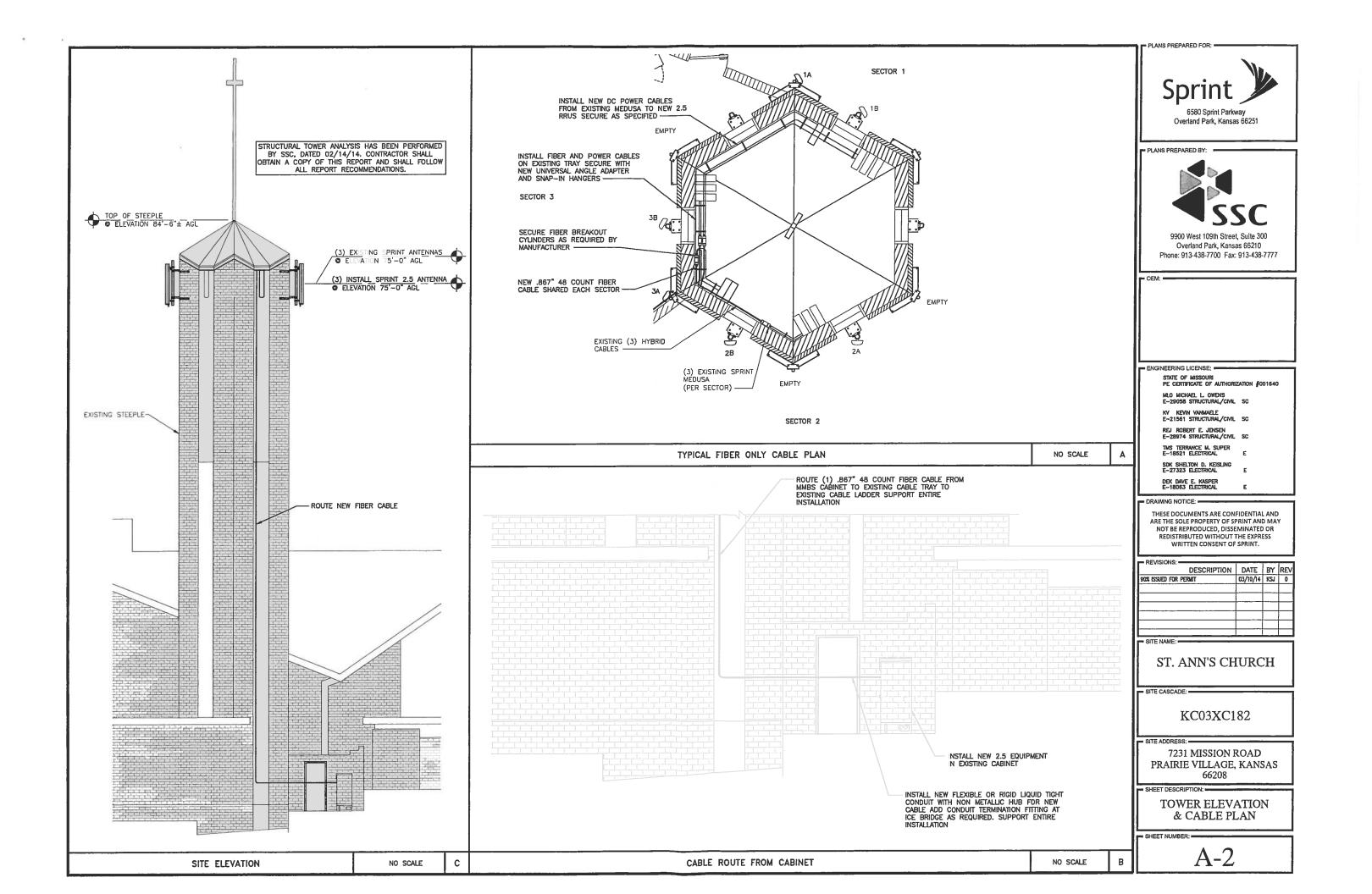
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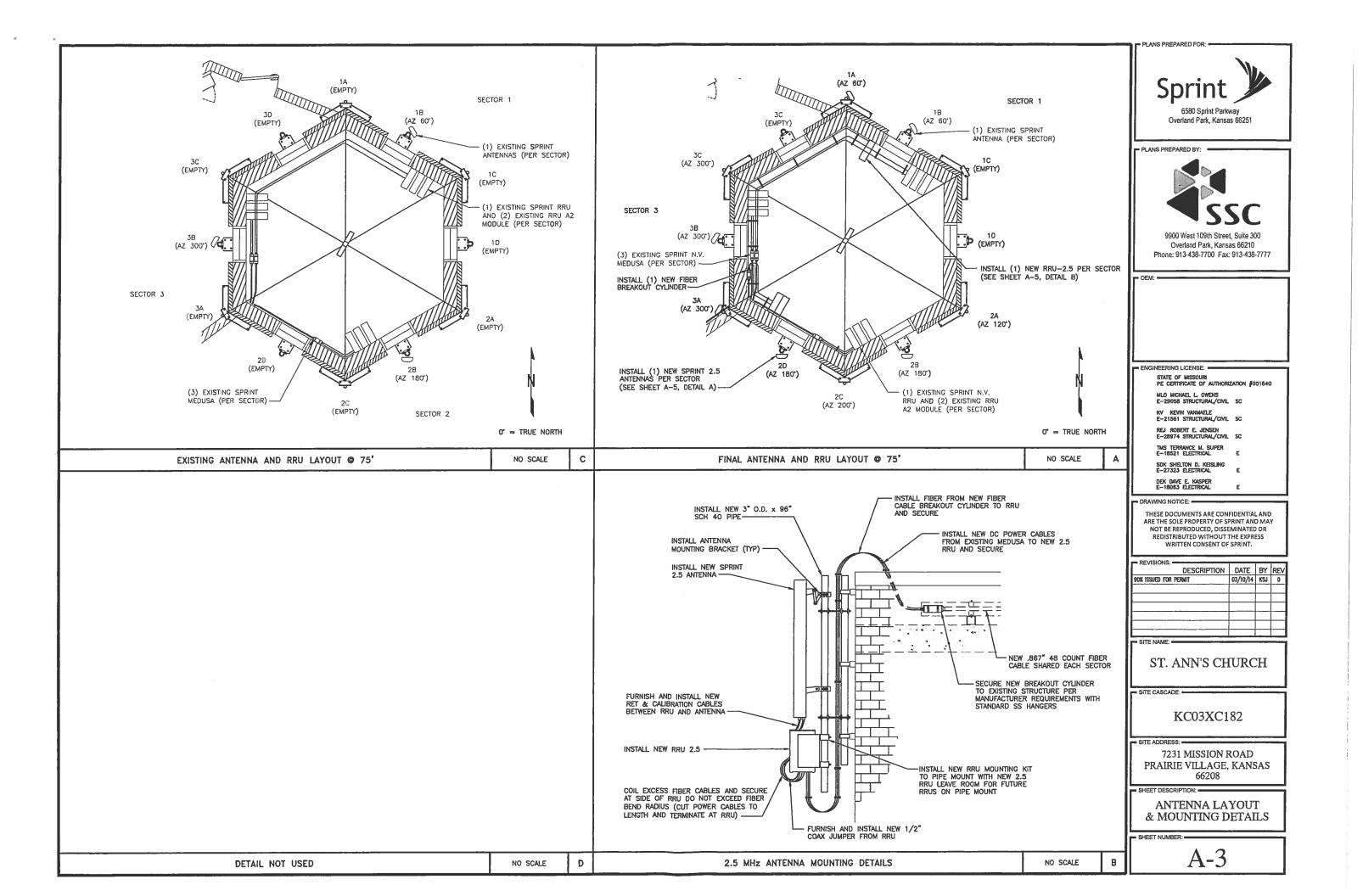
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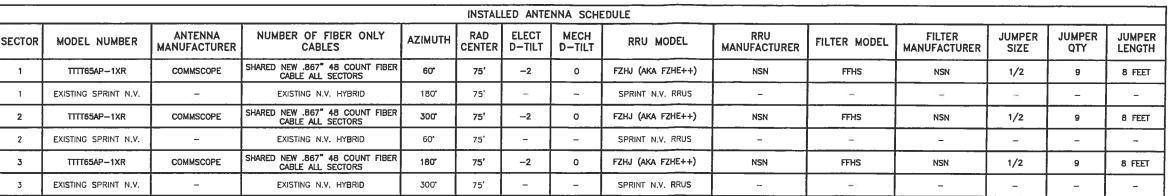
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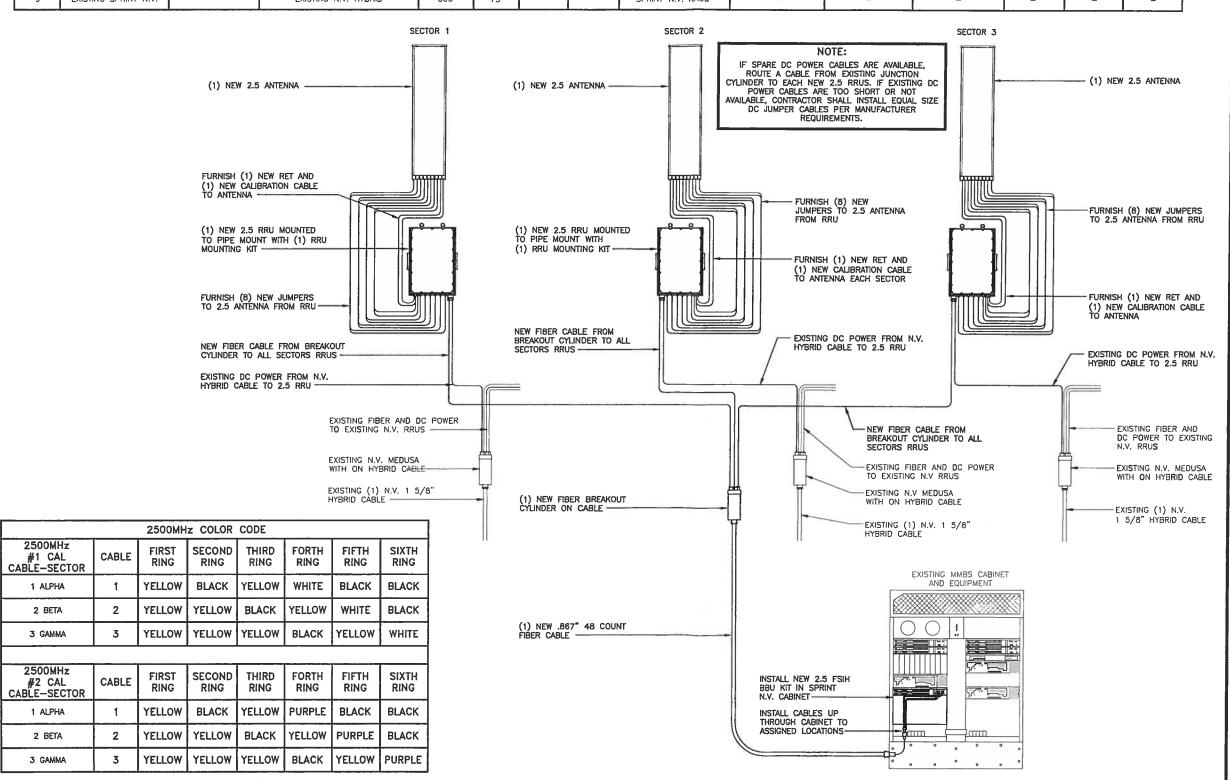
EQUIPMENT PLAN

SHEET NUMBER: -









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PLANS PREPARED BY:

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7231 MISSION ROAD PRAIRIE VILLAGE, KANSAS 66208

SHEET DESCRIPTION:

RF DATA SHEET & **EQUIPMENT INFORMATION**

LOCHNER

STAFF REPORT

TO: Prairie Village Planning Commission

FROM: Ron Williamson, FAICP, Lochner, Planning Consultant

DATE: May 6, 2014, Planning Commission Meeting Project # 000009686

Application: PC 2014-113

Request: Site Plan Approval to add three antennas, a fiber optic cable and

install new equipment in the existing equipment cabinets

Property Address: 9011 Roe Avenue, Fire Station

Applicant: Global Signal Acquisition for Sprint

Current Zoning and Land Use: C-1 Restricted Business District – Fire Station

Surrounding Zoning and Land Use: North: C-2 General Business District - Offices

East: C-1 Restricted Business District – KCP&L Substation

South: R-1A Single-Family District - Church

West: R-1A Single-Family District – Single Family Dwelling

Legal Description: Lot 11 Blk 7 Somerset Acres West

Property Area: 0.73 Acres

Related Case Files: PC 2013-110 Site Plan Approval for Sprint

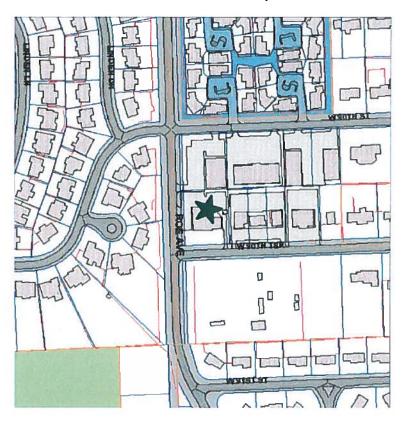
PC 2011-121 Site Plan Approval for Sprint PC 2009-16 Special Use Permit for Clearwire

PC 2004-10 Special Use Permit for Cingular Wireless (now AT&T)

PC 1996- 06 Conditional Use Permit for Sprint Wireless

Attachments: Application, Site Plan, Project Photos

General Location Map



Aerial Map



STAFF COMMENTS:

Sprint is requesting Site Plan Approval to add three antennas, install a fiber optic cable, and install new equipment in the existing equipment boxes. Sprint submitted an application PC 2013-110 to replace three antennas and replace three equipment boxes with two. This was approved by the Planning Commission. Sprint is consolidating its multiple network technologies into one new network called Network Vision. Network Vision will provide faster data speeds, better signal strength, fewer dropped calls and improved voice quality.

The conditions of approval for PC 2013-110 were as follows:

- 1. That the antennas be installed as shown on the proposed site plan.
- 2. That all wiring be contained inside the tower.
- 3. That the three existing cabinets shall be removed immediately after the operation of the new cabinets has been approved, but in no event longer than 12 months from the date of Planning Commission approval of this application. The applicant shall notify the City when the existing cabinets are removed.
- 4. That the applicant prepare a structural analysis of the tower to confirm that it is sufficient to carry the additional load.
- 5. That the applicant replace the existing wood fence with an eight foot tall fence to screen the equipment boxes. Plans for the fence shall be submitted to Staff for review and approval prior to obtaining a permit.

Based on the plans submitted with this application, Sprint has complied with all the conditions.

This monopole was approved in 1996 and at that time approval was by Conditional Use Permit. The monopole was approved for a height of 100 feet and Sprint antennas are on the top. In 2004, a Special Use Permit was granted to Cingular (now AT&T) to install antennas at the 90 foot elevation along with equipment cabinets in the compound at the base of the antenna. In 2009, a Special Use Permit was granted to Clearwire to install antennas and equipment cabinets. Sprint is a major shareholder in Clearwire and the Clearwire antennas were installed as a modification to the Sprint antennas at the top of the tower. The three new antennas which are approximately 13" wide and 64" long will be installed in existing canisters that are already on the pole. The fiber optic cable will be within the pole.

Subsequent to the application in 2011, a new Federal law was passed that requires all local governments to approve any request for replacement of transmission equipment on an existing wireless tower or base station (we call this the equipment compound) provided the request does not substantially change the physical dimensions of the tower or base station.

It is the opinion of Staff that the request does not substantially change the installation and should be approved. The law does not say that local government may not require an application to be filed or that reasonable conditions could be required as part of the approval.

Since no neighbors have appeared at previous neighborhood meetings and the changes were not major, the applicant was not required to hold a neighborhood meeting.

The Planning Commission shall give consideration to the following criteria in approving or disapproving a site plan:

A. The site is capable of accommodating the building, parking areas and drives with appropriate open space and landscape.

The capability of the site to accommodate the equipment compound was addressed in the approval of the Special Use Permit. The proposed improvements will occur on the existing tower and within the existing equipment compound.

- B. Utilities are available with adequate capacity to serve the proposed development.

 Adequate utilities are available to serve this location.
- c. The plan provides for adequate management of stormwater runoff.

No additional impervious area will be created and therefore a stormwater management plan is not required.

- D. The plan provides for safe and easy ingress, egress, and internal traffic circulation.

 The site utilizes the existing driveway and parking lot for circulation that currently serves it and no changes are proposed.
- E. The plan is consistent with good land planning and good site engineering design principles.

The details of the overall design of the equipment compound were worked out on the approval of the Conditional Use Permit. The applicant has submitted a structural analysis to confirm that the tower has sufficient capacity to carry the existing and proposed load.

F. An appropriate degree of compatibility will prevail between the architectural quality of the proposed building and the surrounding neighborhood.

The tower has been at this location for approximately eighteen years. The tower is located at the Fire Station in a commercial area and has very little impact on surrounding residential areas. All the equipment will be located within the equipment compound. The existing ice bridge will be used. The wiring will be inside the tower. An eight-foot high fence has been installed to provide better screening of the equipment compound.

G. The plan represents an overall development pattern that is consistent with the comprehensive plan and other adopted planning policies.

Wireless communications are not specifically addressed in Village Vision. Generally it falls into maintaining and improving infrastructure.

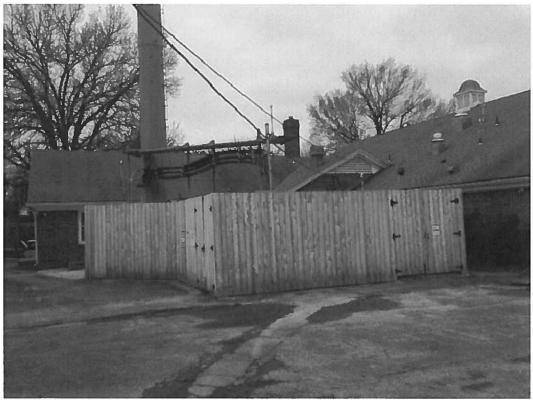
RECOMMENDATION:

It is the recommendation of Staff that the Planning Commission approve this site plan for Sprint subject to the following conditions:

- 1. That the antennas be installed as shown on the proposed plan.
- 2. That all wiring be contained inside the tower.



Antennas (9011 Roe)



Equipment Compound (9011 Roe)

SPECIAL USE PERMIT APPLICATION

CITY OF PRAIRIE VILLAGE, KANSAS	For Office Use Only Case No.: Pc2014-//3 Filing Fees: \$100 Deposit: \$500 Date Advertised: Date Notices Sent: Public Hearing Date:
APPLICANT: Global Signal Aguisition	PHONE: 784-416-2315
ADDRESS: 11 Grand view Cir. Sancristurg, Pt	-15317 E-MAIL: amanda Poll Down Caste com
OWNER:	PHONE:
LOCATION OF PROPERTY: 9011 Roe Aug	Prairie Villoge, KS
ADJACENT LAND USE AND ZONING: Land Use	Zonina
North South East West Present Use of Property: Cell Take N	Zoning
Please complete both pages of the form and return Planning Commission Secretary City of Prairie Village	

Please complete both pages of the form and return to Planning Commission Secretary City of Prairie Village 7700 Mission Road Prairie Village, KS 66208 Does the proposed special use meet the following standards? If yes, attach a separate Sheet explaining why.

Yes

__No__

1.	is deemed necessary for the public convenience at that location.
2.	Is so designed, located and proposed to be operated that the public health, safety, and welfare will be protected.
3.	Is found to be generally compatible with the neighborhood in which it is proposed.
4.	Will comply with the height and area regulations of the district in which it is proposed.
5.	Off-street parking and loading areas will be provided in accordance with the standards set forth in the zoning regulations, and such areas will be screened from adjoining residential uses and located so as to protect such residential use from any injurious effect.
6.	Adequate utility, drainage, and other such necessary facilities have been or will be provided.
Sho	ould this special use be valid only for a specific time period? Yes No
	If Yes, what length of time?
SIG	INATURE: Manda Roll DATE: 4/8/14
BY:	Amanda lok
	LE: Real Estate Specialist
	 Site plan showing existing and proposed structures on the property in questions, and adjacent property, off-street parking, driveways, and other information. Certified list of property owners
*	Alveady an Oxisting towar, we are just adding equipment. Will not effect the tower height orground space.

Version 2.0

EXHIBIT A

Site Name

Prairie Village Fire Station

PCS Site Agreement

Site I.D. KC03XC183-1

Site Description

Site situated in the City of Prairie Village, County of Johnson, State of Kansas, commonly described as follows:

Legal Description:

A TRACT OF LAND BEING PART OF LOT 11, BLOCK 7, SOMERSET ACRES WEST, PRAIRIE VILLAGE, JOHNSON COUNTY, KANSAS, BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS: COMMENCING AT THE NORTHWEST CORNER OF SAID LOT 11; THENCE S 02°53'40" E ALONG THE EAST RIGHT-OF-WAY OF ROE AVENUE A DISTANCE OF 35.00 FEET; THENCE N 88°06'20" E A DISTANCE OF 95.08 FEET; THENCE S 01°53'40" E A DISTANCE OF 25.25 FEET TO THE POINT OF BEGINNING OF THE TRACT OF LAND TO BE DESCRIBED; THENCE S 90°00'00" E A DISTANCE OF 23.00 FEET; THENCE S 00°00'00" W A DISTANCE OF 13.89 FEET; THENCE S 49°49'39" E A DISTANCE OF 12.34 FEET; THENCE S 40°10'21" W A DISTANCE OF 10.00 FEET; THENCE N 49°49'39" W A DISTANCE OF 15.00 FEET TO THE POINT OF BEGINNING. CONTAINS 511 SQUARE FEET MORE OR LESS.

Sketch of Site:

(See Attached)

Owner Initials _	9h
SSLP Initials	

Date: February 21, 2014

Randy Wofford Crown Castle 11 Grandview Circle Canonsburg, PA 15317



AW Solutions Inc. 300 Crown Oak Centre Dr Longwood, FL 32750 (407) 260-0231

Subject:

Structural Analysis Report

Carrier Designation:

Sprint PCS Co-Locate

Scenario 2.5B KC03XC183

Carrier Site Number: Carrier Site Name:

PRAIRIE VILLAGE FIRE STATION

Crown Castle Designation:

Crown Castle BU Number:

877791

Crown Castle Site Name:

PRAIRIE VILLAGE FIRE STATION

Crown Castle JDE Job Number:

253359

Crown Castle Work Order Number:

711157

Crown Castle Application Number:

208948 Rev. 7

Engineering Firm Designation:

AW Solutions Inc. Project Number:

877791

Site Data:

9011 ROE AVE., PRAIRIE VILLAGE, Johnson County, KS

Latitude 38° 57' 55.25", Longitude -94° 38' 20.76"

97 Foot - Monopole Tower

Dear Randy Wofford,

AW Solutions Inc. is pleased to submit this "Structural Analysis Report" to determine the structural integrity of the above mentioned tower. This analysis has been performed in accordance with the Crown Castle Structural 'Statement of Work' and the terms of Crown Castle Purchase Order Number 618677, in accordance with application 208948, revision 7.

The purpose of the analysis is to determine acceptability of the tower stress level. Based on our analysis we have determined the tower stress level for the structure and foundation, under the following load case, to be:

LC5: Installed + Proposed Equipment

Sufficient Capacity

Note: See Table I and Table II for the proposed and existing/reserved loading, respectively.

This analysis has been performed in accordance with the 2012 International Building Code based upon an ultimate 3-second gust wind speed of 115 mph converted to a nominal 3-second gust wind speed of 89 mph per section 1609.3.1 as required for use in the TIA-222-G Standard per Exception #5 of Section 1609.1.1. Exposure Category B with a maximum topographic factor, Kzt, of 1.0 and Risk Category II were used in this analysis.

All modifications and equipment proposed in this report shall be installed in accordance with the attached drawings for the determined available structural capacity to be effective.

We at AW Solutions Inc. appreciate the opportunity of providing our continuing professional services to you and Crown Castle. If you have any questions or need further assistance on this or any other projects please give us a call.

Structural analysis prepared by:

Respectfully submitted by:

Emmanuel Poulin, PE VP of Engineering

TANSAS CONTRACTOR OF THE PARTY tnxTower Report - version 6.1.4.1



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tnxTower Output

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7) APPENDIX C

Additional Calculations

1) INTRODUCTION

This tower is a 97 ft Monopole tower designed by ENGINEERED ENDEAVORS, INC. in July of 1996. The tower was originally designed for a wind speed of 80 mph per TIA/EIA-222-E.

2) ANALYSIS CRITERIA

The structural analysis was performed for this tower in accordance with the requirements of TIA-222-G Structural Standards for Steel Antenna Towers and Antenna Supporting Structures using a 3-second gust wind speed of 89 mph with no ice, 40 mph with 1 inch ice thickness and 60 mph under service loads, exposure category B with topographic category 1 and crest height of 0 feet.

Table 1 - Proposed Antenna and Cable Information

Mounting Level (ft)	Center Line Elevation (ft)	Number of Antennas	Antenna Manufacturer	Antenna Model	Number of Feed Lines	Feed Line Size (in)	Note
		6	ericsson	800MHZ SMR FILTER			
		3	ericsson	RRUS 31 B25			
	100.0	3	nokia	FZHJ-RRH			
97.0		3	tongyu communication	TYDA-252718DER4-65P w/ Mount Pipe	1	5/8	1
	97.0	1	tower mounts	Side Arm Mount [SO 309- 3]			
94.0	94.0	3	ericsson	RRUS-11 800MHz w/ Mount Pipe	-	-	1

Notes:

¹⁾ Proposed Equipment

Table 2 - Existing and Reserved Antenna and Cable Information

Mounting Level (ft)	Center Line Elevation (ft)	Number of Antennas	Antenna Manufacturer	Antenna Model	Number of Feed Lines	Feed Line Size (in)	Note
		1	andrew	VHLP2-18			
	104.0	1	andrew	VHLP2-23			
		2	dragonwave	HORIZON DUO			
		3	argus technologies	LLPX310R-V1 w/ Mount Pipe	2	1/2	
97.0	100.0	3	motorola	WAP 450	6	3/8	1
	100.0	9	rfs celwave	ACU-A20-N	3	1-1/4	
		3	rfs celwave	APXVERR18-C w/ Mount Pipe			
	97.0	1	tower mounts	Side Arm Mount [SO 702-3]			
	95.0	6	ericsson	RRUS 11	-	_	2
94.0	94.0	1	tower mounts	Side Arm Mount [SO 309-	-	-	1
	93.0	6	ericsson	RRUS 11	-	-	2
		6	kathrein	800 10121 w/ Mount Pipe			
	90.0	6	powerwave technologies	TT08-19DB111-001			
		2	tower mounts	Side Arm Mount [SO 702-3]	1	5/16	
00.0		3	alcatel lucent	RRH2x40-07-L	2	3/4	4
90.0		1	kathrein	800 10766 w/ Mount Pipe	12	1-5/8	1
	88.0	1	powerwave technologies	P65-16-XLH-RR w/ Mount Pipe	1	3/8	
		1	powerwave technologies	P65-17-XLH-RR w/ Mount Pipe			
		1	raycap	DC6-48-60-18-8F			

Notes:

Existing Equipment

1) 2) Equipment To Be Removed

Table 3 - Design Antenna and Cable Information

Mounting Level (ft)	Pilara Atam	Number of Antennas	Antenna Manufacturer	Antenna Model	Number of Feed Lines	Feed Line Size (in)
97	97	12	scala	AP17-11900	-	p = 14
80	80	12	scala	AP17-11900	-	-

3) ANALYSIS PROCEDURE

Table 4 - Documents Provided

Document	Remarks	Reference	Source
4-GEOTECHNICAL REPORTS	Terracon, Inc.	2094236	CCISITES
4-TOWER FOUNDATION DRAWINGS/DESIGN/SPECS	EEI	1474657	CCISITES
4-TOWER MANUFACTURER DRAWINGS	EEI	1548504	CCISITES

3.1) Analysis Method

tnxTower (version 6.1.4.1), a commercially available analysis software package, was used to create a three-dimensional model of the tower and calculate member stresses for various loading cases. Selected output from the analysis is included in Appendix A.

3.2) Assumptions

- Tower and structures were built in accordance with the manufacturer's specifications.
- 2) The tower and structures have been maintained in accordance with the manufacturer's specification.
- The configuration of antennas, transmission cables, mounts and other appurtenances are as specified in Tables 1 and 2 and the referenced drawings.

This analysis may be affected if any assumptions are not valid or have been made in error. AW Solutions Inc. should be notified to determine the effect on the structural integrity of the tower.

4) ANALYSIS RESULTS

Table 5 - Section Capacity (Summary)

Section No.	Elevation (ft)	Component Type	Size	Critical Element	P (K)	SF*P_allow (K)	% Capacity	Pass / Fail
L1	97 - 60.25	Pole	TP24.625x15x0.2188	1	-9.41	1156.28	53.9	Pass
L2	60.25 - 26.0312	Pole	TP33.5938x24.625x0.2813	2	-13.40	1935.06	49.0	Pass
L3	26.0312 - 0	Pole	TP39.5x31.7994x0.3125	3	-19.38	2508.79	50.0	Pass
							Summary	
						Pole (L1)	53.9	Pass
						Rating =	53.9	Pass

Table 6 - Tower Component Stresses vs. Capacity - LC5

Notes	Component	Elevation (ft)	% Capacity	Pass / Fail	
1	Anchor Rods	0	49.5	Pass	
1	Base Plate	0	49.7	Pass	
1	Base Foundation	0	32.2	Pass	
_ 1	Flange Plate	60	- 35.9	Pass	

Structure Rating (max from all components) =	53.9%

Notes:

4.1) Recommendations

The tower and its foundation have sufficient capacity to carry the existing and proposed loads. No modifications are required at this time.

See additional documentation in "Appendix C – Additional Calculations" for calculations supporting the % capacity consumed.



PROPERTY OWNER:

LATITUDE (NAD83):

LONGITUDE (NAD83):

ZONING JURISDICTION:

38" 57" 55.25" N 38.965347"

94" 38" 20.76" W -94.6391"

KANSAS CITY, KS ZONING DISTRICT:

POWER_COMPANY:

AAV. PROVIDER:

SPRINT CM:

NAME: PHONE: E-MAIL:

KANSAS CITY POWER AND LIGHT

COUNTY:

CROWN CASTLE 1001 CRAIG ROAD, SUITE 445 ST. LOUIS, MO 63146

PROJECT:

2.5 EQUIPMENT DEPLOYMENT

SITE NAME:

PRAIRIE VILLAGE FIRE STATION

SITE CASCADE:

KC03XC183

SITE NUMBER:

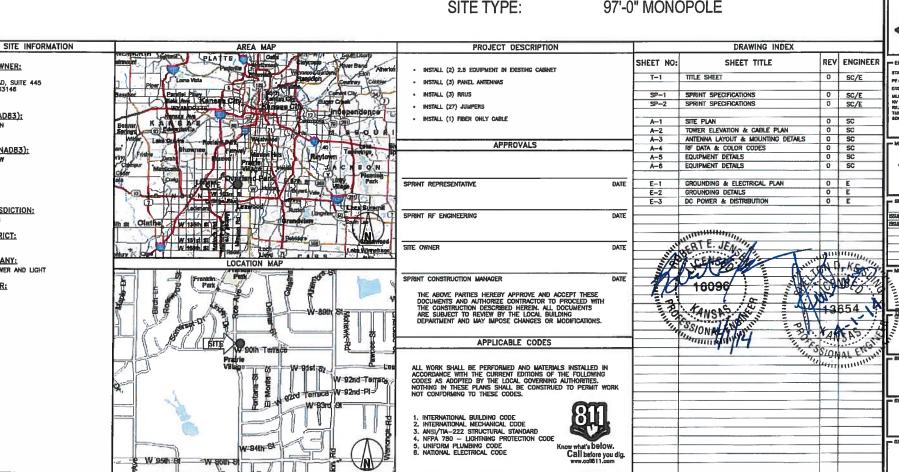
CROWN CASTLE SITE ID: 877791

SITE ADDRESS:

9011 ROE AVENUE PRAIRIE

VILLAGE, KANSAS 66208

97'-0" MONOPOLE









STATE OF KANSAS PE CERTIFICATE OF AUTHOR

MLA DRAWING NOTICE: -

THESE DOCUMENTS ARE CONFIDENTIAL AND ARE THE SOLE PROPERTY OF SPRINT AND MAY NOT BE REPRODUCED, DISSEMINATED OR REDISTRIBUTED WITHOUT THE EXPRESS WRITTEN CONSENT OF SPRINT.

PRAIRIE VILLAGE FIRE STATION 877791

F PRAIRIE VILLAGE FIRE STATION KC03XC183

9011 ROE AVENUE PRAIRIE VILLAGE, KANSAS

TITLE SHEET

T-1

201

M

THESE OUTLINE SPECIFICATIONS IN CONJUNCTION WITH THE SPRINT STANDARD CONSTRUCTION SPECIFICATIONS, INCLUDING CONTRACT DOCUMENTS AND THE CONSTRUCTION DRAWINGS DESCRIBE THE WORK TO BE PERFORMED BY THE CONTRACTOR.

SECTION 01 100 - SCOPE OF WORK

THE WORK: SHALL COMPLY WITH APPLICABLE NATIONAL CODES AND STANDARDS, LATEST EDITION, AND

PRECEDENCE:
SHOULD CONFLICTS OCCUR BETWEEN THE STANDARD CONSTRUCTION SPECIFICATIONS FOR WRELESS SITES INCLUDING THE STANDARD CONSTRUCTION DETAILS FOR WIRELESS SITES AND THE CONSTRUCTION DRAWINGS, INFORMATION ON THE CONSTRUCTION DRAWINGS SHALL

SITE FAMILIARITY:
CONTRACTOR SHALL BE RESPONSIBLE FOR FAMILIARIZING HIMSELF WITH ALL CONTRACT
DOCUMENTS, FIELD CONDITIONS AND DIMENSIONS PRIOR TO PROCEEDING WITH

ON-SITE SUPERVISION:

THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK AND SHALL BE RESPONSIBLE FOR CONTRACTION MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES IN

DRAWINGS, SPECIFICATIONS AND DETAILS REQUIRED AT JORSITE:
THE CONSTRUCTION CONTRACTOR SHALL MAINTAIN A FULL SET OF STAMPED CONSTRUCTION DRAWINGS AT THE JOBSITE FROM MOBILIZATION THROUGH CONSTRUCTION COMPLETION.

- A. DETAILS ARE INTENDED TO SHOW DESIGN INTENT, PROVIDE ALL MATERIALS AND LABOR AS REQUIRED TO PROVIDE A COMPLETE AND FUNCTIONING SYSTEM. MODIFICATIONS MAY BE REQUIRED TO SUIT JOB DIMENSIONS OR CONDITIONS, AND SUCH MODIFICATIONS SHALL BE INCLUDED AS PART OF THE WORK.
- CONTRACTOR SHALL NOTIFY SPRINT AND CROWN CASTLE CONSTRUCTION MANAGER OF ANY VARIATIONS PRIOR TO PROCEEDING WITH THE WORK, DIMENSIONS SHOWN ARE TO FIRSH SUFFACE UNLESS NOTED OTHERWISE MODIFICATIONS MAY BE REQUIRED TO SUIT JOB DIMENSIONS OR CONDITIONS, AND SUCH MODIFICATIONS
- MARK THE FIELD SET OF DRAWINGS IN RED, DOCUMENTING ANY CHANGES FROM THE CONSTRUCTION DOCUMENTS.

METHODS OF PROCEDURE (MOPS) FOR CONSTRUCTIONS CONTRACTOR SHALL PERFORM WORK AS DESCRIBED IN

- A. COAX COLOR CODING SWEEPS AND FIBER TESTING TS-0200 AND EL-0568
- B. CABLE LABELING EN-2012-00
- C. APPLICABLE INSTALLATION MOPS IDENTIFIED ELSEWHERE IN THE CONTRACT DOCUMENTS

SECTION 01 200 - COMPANY FURNISHED MATERIAL AND EQUIPMENT COMPANY FURNISHED MATERIAL AND EQUIPMENT IS IDENTIFIED ON THE RF DATA SHEET IN

CONTRACTOR IS RESPONSIBLE FOR SPRINT PROVIDED MATERIAL AND EQUIPMENT TO ENSURE IT IS PROTECTED AND HANDLED PROPERLY THROUGHOUT THE CONSTRUCTION

CONTRACTOR RESPONSIBLE FOR RECEIPT OF SPRINT FURNISHED EQUIPMENT AT CELL SITE OR CONTRACTOR'S LOCATION. CONTRACTOR TO COMPLETE SHIPPING AND RECEIPT DOCUMENTATION IN ACCORDANCE WITH COMPANY PRACTICE.

SECTION 01 300 - CELL SITE CONSTRUCTION

NOTICE TO PROCEED:

NO WORK SHALL COMMENCE PRIOR TO COMPANY'S WRITTEN NOTICE TO PROCEED AND THE ISSUANCE OF WORK ORDER

SITE CLEANLINESS:
CONTRACTOR SHALL KEEP THE SITE FREE FROM ACCUMULATING WASTE MATERIAL DEBRIS,
AND TRASH DALLY, AT THE COMPLETION OF THE WORK, CONTRACTOR SHALL REMOVE FROM
THE SITE ALL REMAINING RUBBISH, IMPLEMENTS, TEMPORARY FACILITIES, AND SURPLUS

SECTION 01 400 - SUBMITTALS & TESTS

ALTERNATES:

AT THE COMPANY'S REQUEST, ANY ALTERNATIVES TO THE MATERIALS OR METHODS SPECIFIED SHALL BE SUBMITTED TO SPRINTS CONSTRUCTION MANAGER FOR APPROVAL SPRINT WILL REVIEW AND APPROVE ONLY THOSE REQUESTS MADE IN WRITING. NO VERBAL APPROVALS WILL BE CONSIDERED.

TESTS AND INSPECTIONS:

- A. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CONSTRUCTION TESTS, INSPECTIONS AND PROJECT DOCUMENTATION
- B. CONTRACTOR SHALL ACCOMPLISH TESTING INCLUDING BUT NOT LIMITED TO THE
- 1. COAX SWEEPS AND FIBER TESTS PER TS-0200 REV 4 ANTENNA LINE ACCEPTANCE
- AGL, AZIMUTH AND DOWNTILT PROVIDE AN AUTOMATED REPORT UPLOADED TO SITERRA USING A COMMERCIAL MADE—FOR THE PURPOSE ELECTRONIC ANTENNA ALIGNMENT TOOL (AAT). INSTALLED AZIMUTH, CENTERLINE AND DOWNTILT MUST CONFORM WITH RF CONFIGURATION DATA

- 3. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY AND ALL CORRECTIONS TO ANY WORK IDENTIFIED AS UNACCEPTABLE IN SITE INSPECTION ACTIVITIES AND/OR AS A
- 4. ALL TESTING REQUIRED BY APPLICABLE INSTALLATION MOPS.
- C. REQUIRED CLOSEOUT DOCUMENTATION INCLUDES, BUT IS NOT LIMITED TO THE
- 1. AZIMUTH, DOWNTILT, AGL FROM SUNSIGHT INSTRUMENTS ANTENNALIGN ALIGNMENT TOOL (AAT)
- 2. SWEEP AND FIBER TESTS
- 3. SCALABLE BARCODE PHOTOGRAPHS OF TOWER TOP AND INACCESSIBLE SERIALIZED
- 4. ALL AVAILABLE JURISDICTIONAL PERMIT AND OCCUPANCY INFORMATION
- 5. PDF SCAN OF REDLINES PRODUCED IN FIELD
- 6. A PDF SCAN OF REDLINE MARK-UPS SUITABLE FOR USE IN ELECTRONIC AS-BUILT DRAWING PRODUCTION
- 7. LIEN WAIVERS
- B. FINAL PAYMENT APPLICATION
- 9. REQUIRED FINAL CONSTRUCTION PHOTOS
- 10. CONSTRUCTION AND COMMISSIONING CHECKLIST COMPLETE WITH NO DEFICIENT
- 11. APPLICABLE POST NTP TASKS INCLUDING DOCUMENT LIPLOADS COMPLETED IN SITERRA (SPRINTS DOCUMENT REPOSITORY OF RECORD).
- 12. CLOSEDUT PHOTOGRAPHS AND CLOSEOUT CHECKLIST: SPRINT WILL PROVIDE SEPARATE GUIDANCE

SECTION 11 700 - ANTENNA ASSEMBLY, REMOTE RADIO UNITS AND CABLE INSTALLATION

THIS SECTION SPECIFIES INSTALLATION OF ANTENNAS, RRU'S, AND CABLE EQUIPMENT, INSTALLATION, AND TESTING OF COAXIAL FIBER CABLE.

THE NUMBER AND TYPE OF ANTENNAS AND RRU'S TO BE INSTALLED IS DETAILED ON THE CONSTRUCTION DRAWINGS.

FIBER CABLE:
CABLE WILL BE FIBER AND FURNISHED FOR INSTALLATION AT EACH SITE, CABLE SHALL BE
INSTALLED PER THE CONSTRUCTION DRAWINGS AND THE APPLICABLE MANUFACTURER'S

JUMPERS AND CONNECTORS: FURNISH AND INSTALL 1/2" COAX JUMPER CABLES BETWEEN THE RRU'S AND ANTENNAS. JUMPERS SHALL BE TYPE LDF 4, FLC 12-50, CR 540, OR FXL 540. SUPER-FLEX CABLES ARE NOT ACCEPTABLE. JUMPERS BETWEEN THE RRU'S AND ANTENNAS OR TOWER TOP AMPLIFIERS SHALL CONSIST OF 1/2 INCH FOAM DIELECTRIC, OUTDOOR RATED COAXIAL CABLE, MIN LENGTH FOR JUMPER SHALL BE 10"-0".

REMOTE ELECTRICAL TILT (RET) CABLES: A/E TO

MISCELLANEOUS: INSTALL SPLITTERS, COMBINERS, FILTERS PER RF DATA SHEET, FURNISHED BY SPRINT.

<u>antenna installation:</u> The contractor shall assemble all antennas onsite in accordance with the INSTRUCTIONS SUPPLIED BY THE MANUFACTURER, ANTENNA HEIGHT, AZMAUTH, AND FEED ORIENTATION INFORMATION SHALL BE A DESIGNATED ON THE CONSTRUCTION DRAWINGS.

- A. THE CONTRACTOR SHALL POSITION THE ANTENNA ON TOWER PIPE MOUNTS SO THAT THE BOTTOM STRUT IS LEVEL. THE PIPE MOUNTS SHALL BE PLUMB TO WITHIN
- B. ANTENNA MOUNTING REQUIREMENTS: PROVIDE ANTENNA MOUNTING HARDWARE AS INDICATED ON THE DRAWINGS.

FIBER CABLE INSTALLATION:

- A. THE CONTRACTOR SHALL ROUTE, TEST, AND INSTALL ALL CABLES AS INDICATED ON THE CONSTRUCTION DRAWINGS AND IN ACCORDANCE WITH THE MANUFACTURER'S
- B. THE INSTALLED RADIUS OF THE CABLES SHALL NOT BE LESS THAN THE MANUFACTURER'S SPECIFICATIONS FOR BENDING RADII.
- C. EXTREME CARE SHALL BE TAKEN TO AVOID DAMAGE TO THE CABLES DURING HANDLING
- FASTENING MAIN FIBER CABLES: ALL CABLES SHALL BE INSTALLED INSIDE MONOPOLE WITH CABLE SUPPORT GRIPS AS REQUIRED BY THE MANUFACTURER.
- 2. FASTENING INDMOUAL FIBER AND DC CABLES ABOVE BREAKOUT ENCLOSURE (MEDUSA), WITHIN THE MIMBS CABINET AND ANY INTERMEDIATE DISTRIBUTION BOXES:
- a. FIBER: SUPPORT FIBER BUNDLES USING ½: VELCRO STRAPS OF THE REQUIRED LENGTH @ 18 OC. STRAPS SHALL BE UV, OIL AND WATER RESISTANT AND SUTTABLE FOR INDUSTRIAL INSTALLATIONS AS MANUFACTURED BY TEXTOL OR
- b. DC: SUPPORT OC BUNDLES WITH ZIP THES OF THE ADEQUATE LENGTH, ZIP THES TO BE UV STABILIZED, BLACK NYLON, WITH TENSILE STRENGTH AT 12,000 PSI AS MANUFACTURED BY NELCO PRODUCTS OR EQUAL.
- FASTENING JUMPERS: SECURE JUMPERS TO THE SIDE ARMS OR HEAD FRAMES USING STAINLESS STEEL TIE WRAPS OR STAINLESS STEEL BUTTERFLY CLIPS.
- a. INSPECT CABLE PRIOR TO USE FOR SHIPPING DAMAGE, NOTIFY THE CONSTRUCTION MANAGER IF DAMAGE IS PRESENT
- b. CABLE ROUTING: CABLE INSTALLATION SHALL BE PLANNED TO ENSURE THAT THE LINES WILL BE PROPERLY ROUTED IN THE CABLE ENVELOP AS INDICATED ON THE DRAWINGS. AVOID TWISTING AND CROSSOVERS.
- c. HOIST CABLE USING PROPER HOISTING GRIPS, DO NOT EXCEED MANUFACTURER'S RECOMMENDED MAXIMUM BEND RADIUS.



6580 Sprint Parlova Overland Park, Kansas 66251



Fex: 913-438-7777

PLANS PREPARED BY



STATE OF MAIISAS

PE CERTIFICATE OF AUTHORIZATION SE-STI

PE #: DISCIPLINE

LILO JACHAEL LOWEIS 15917 STRUCTURALACINI SC KV KEVRI VANIACELE 20165 STRUCTURALACINI SC TREJ ROBERT E JEISSEN 15096 STRUCTURALACINI SC TRES TERRAJACELI SUPER 8259 ELECTROCAL E TERRANCE II SUPER \$250 ELECTRICAL SHELTON D. KEISLING 13654 ELECTRICAL

ARE THE SOLE PROPERTY OF SPRINT AND MAY REDISTRIBUTED WITHOUT THE EXPRESS WRITTEN CONSENT OF SPRINT.

DATE BY R SUED FOR PERMITTIN 03/31/14 14.0

AN A RITE MAKE & AN IN PRAIRIE VILLAGE FIRE STATION 877791

> PRAIRIE VILLAGE FIRE STATION KC03XC183

9011 ROE AVENUE PRAIRIE VILLAGE, KANSAS 66208

SHEET DESCRIPTION: =

SPRINT SPECIFICATIONS = SHEET NUMBER

THE SSIONAL ENTER www. ON D KE SIONAL ENGRAPHIS WILLIAM WALLEN

minimum,

16096

TANSAS SONAL ENGINE

RTE JENO

CONTINUE FROM SP-1

- GROUNDING OF TRANSMISSION LINES: ALL TRANSMISSION LINES SHALL BE GROUNDED AS INDICATED ON DRAWINGS.
- 6. CABLE COLOR CODING: ALL COLOR CODING SHALL BE AS REQUIRED IN TS 0200
- CABLE LABELING: INDMOUAL FIBER AND DC BUNDLES SHALL BE LABELED ALPHA-NUMERICALLY ACCORDING TO SPRINT CELL SITE ENGINEERING NOTICE EN

WEATHERPROOFING EXTERIOR CONNECTORS AND FIBER CABLE GROUND KITS:

- A. ALL FIBER & COAX CONNECTORS AND GROUND KITS SHALL BE WEATHERPROOFED.
- WEATHERPROOFED USING ONE OF THE FOLLOWING METHODS. ALL INSTALLATIONS MUST BE DONE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND
- COLD SHRINK: ENCOMPASS CONNECTOR IN COLD SHRINK TUBING AND PROVIDE A DOUBLE WRAP OF 2" ELECTRICAL TAPE EXTENDING 2" BEYOND TUBING, PROVIDE 3M COLD SHRINK CKS SERIES OR FOUND.
- 2. SELF-AMALGAMATING TAPE: CLEAN SURFACES, APPLY A DOUBLE WRAP OF SELF-AMALGAMATING TAPE IN OPPOSITE DIRECTION. APPLY DOUBLE WRAP OF 2: WIDE ELECTRICAL TAPE EXTENDING 2" BEYOND THE SELF-AMALGAMATING TAPE
- 3. 3M SLM LOCK CLOSURE 716: SUBSTITUTIONS WILL NOT BE ALLOWED.
- 4. OPEN FLAME ON JOB SITE IS NOT ACCEPTABLE

SECTION 11 800 - INSTALLATION OF MULTIMODAL BASE STATIONS (MMBS) AND RELATED EQUIPMENT

SUMMARY:

- A. THIS SECTION SPECIFIES MMBS CABINETS, POWER CABINETS, AND INTERNAL EQUIPMENT NCLLORING BY NOT LIMITED TO RECTIFIERS, POWER DISTRIBUTION ONTS, BASE BAND UNITS, SURGE ARRESTORS, BATTERES, AND SIMILAR EQUIPMENT FURNISHED BY THE COMPANY FOR INSTALLATION BY THE CONTRACTOR (OFCI).
- B. CONTRACTOR SHALL PROVIDE AND INSTALL ALL MISCELLANEOUS MATERIALS AND PROVIDE ALL LABOR REQUIRED FOR INSTALLATION EQUIPMENT IN EXISTING CABINET OR NEW CABINET AS SHOWN ON DRAWINGS AND AS REQUIRE BY THE APPLICABLE
- C. COMPLY WITH MANUFACTURERS INSTALLATION AND START-UP REQUIREMENTS

DC CIRCUIT BREAKER LABELING

A. NEW DC CIRCUIT IS REQUIRED IN MMBS CABINET SHALL BE CLEARLY IDENTIFIED AS TO

SECTION 26 100 - BASIC ELECTRICAL REQUIREMENTS

SUMMARY: THIS SECTION SPECIFIES BASIC ELECTRICAL REQUIREMENTS FOR SYSTEMS AND

OUALITY ASSURANCE:

- A. ALL EQUIPMENT FURNISHED UNDER DMSKON 26 SHALL CARRY UL LABELS AND LISTINGS WHERE SUCH LABELS AND LISTINGS ARE AVAILABLE IN THE INDUSTRY.
- MANUFACTURERS OF EQUIPMENT SHALL HAVE A MINIMUM OF THREE YEARS EXPERIENCE WITH THEIR EQUIPMENT INSTALLED AND OPERATING IN THE FIELD IN A USE SIMILAR TO THE PROPOSED USE FOR THIS PROJECT.
- MATERIALS AND FOLIPMENT: ALL MATERIALS AND EQUIPMENT SPECIFIED IN DIVISION 28 OF THE SAME TYPE SHALL BE OF THE SAME MANUFACTURER AND SHALL BE NEW, OF THE BEST QUALITY AND DESIGN, AND FREE FROM DEFECTS

SUPPORTING DEVICES:

- A. ALL EQUIPMENT FURNISHED UNDER DIVISION 26 SHALL CARRY UL LABELS AND LISTINGS WHERE SUCH LABELS AND LISTINGS ARE AVAILABLE IN THE INDUSTRY,
- MANUFACTURERS OF EQUIPMENT SHALL HAVE A MINIMUM OF THREE YEARS EXPERIENCE WITH THEIR EQUIPMENT INSTALLED AND OPERATING IN THE FIELD IN A USE SIMILAR TO THE PROPOSED USE FOR THIS PROJECT.
- C. MATERIALS AND EQUIPMENT:
 ALL MATERIALS AND EQUIPMENT SPECIFIED IN DIVISION 26 OF THE SAME TYPE SHALL BE OF THE SAME MANUFACTURER AND SHALL BE NEW, OF THE BEST QUALITY AND DESIGN, AND FREE FROM DEFECTS

SUPPORTING DEVICES:

- A. MANUFACTURED STRUCTURAL SUPPORT MATERIALS: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE PRODUCTS BY THE FOLLOWING:
- 1. ALLIED TUBE AND CONDUIT
- 2. B-LINE SYSTEM
- 3. SUNISTRUT DIVERSIFIED PRODUCTS
- 4. THOMAS & BETTS
- B. FASTENERS: TYPES, MATERIALS, AND CONSTRUCTION FEATURES AS FOLLOWS:
- 1. POWER-DRIVEN THREADED STUDS: HEAT-TREATED STEEL, DESIGNED SPECIFICALLY FOR THE INTENDED SERVICE.
- 2. FASTEN BY MEANS OF WOOD SCREWS ON WOOD.
- 3. TOGGLE BOLTS ON HOLLOW MASONRY UNITS.
- 4. HILTI EPOXY ANCHORS AR REQUIRED ON CROWN CASTLE SITES ON CONCRETE OR SOLID MASONRY.
- 5. MACHINE SCREWS, WELDED THREADED STUDS, OR SPRING-TENSION CLAMPS ON
- B. EXPLOSIVE DEVICES FOR ATTACHING HANGERS TO STRUCTURE SHALL NOT BE
- 7. IN PARTITIONS OF LIGHT STEEL CONSTRUCTION, USE SHEET METAL SCREWS.

SUPPORTING DEVICES:

- A. INSTALL SUPPORTING DEVICES TO FASTEN ELECTRICAL COMPONENTS SECURELY AND PERMANENTLY IN ACCORDANCE WITH NEC.
- 8. COORDINATE WITH THE BUILDING STRUCTURAL SYSTEM AND WITH OTHER TRADES
- C. UNLESS OTHERWISE INDICATED ON THE DRAWINGS, FASTEN ELECTRICAL ITEMS AND THEIR SUPPORTING HARDWARE SECURELY TO THE STRUCTURE IN ACCORDANCE WITH THE FOLLOWING:
- D. ENSURE THAT THE LOAD APPLIED BY ANY FASTENER DOES NOT EXCEED 25 PERCENT OF THE PROOF YEST LOAD.
- E. USE VIBRATION AND SHOCK-RESISTANT FASTENERS FOR ATTACHMENTS TO CONCRETE

ELECTRICAL IDENTIFICATION:

- A. UPDATE AND PROVIDE TYPED CIRCUIT BREAKER SCHEDULES IN THE MOUNTING BRACKET, INSIDE DOORS OF AC PANEL BOARDS WITH ANY CHANGES MADE TO THE AC SYSTEM.
- B. BRANCH CIRCUITS FEEDING AMATION OBSTRUCTION LIGHTING EQUIPMENT SHALL BE CLEARLY IDENTIFIED AS SUCH AT THE BRANCH CIRCUIT PANELBOARD.

SECTION 26 200 -- ELECTRICAL MATERIALS AND EQUIPMENT

- A. RIGID GALVANIZED STEEL (RGS) CONDUIT SHALL BE USED FOR EXTERIOR LOCATIONS ABOVE GROUND AND IN UNFINISHED INTERIOR LOCATIONS AND FOR ENCASED RUNS IN CONCRETE. RIGIO CONDUIT AND FITTINGS SHALL BE STEEL, COATED WITH ZINC EXTERIOR AND INTERIOR BY THE HOT DIP GALVANIZING PROCESS. CONDUIT SHALL BE PRODUCED TO ANSI SPECIFICATIONS CBO.1, FEDERAL SPECIFICATION WW-C-581 AND SHALL BE LISTED WITH THE UNDERWRITERS' LABORATORIES. FITTINGS SHALL BE THREADED — SET SCREW OR COMPRESSION FITTINGS WILL NOT BE ACCEPTABLE. RGS CONDUITS SHALL BE MANUFACTURED BY ALLIED, REPUBLIC OR WHEATLAND.
- UNDERGROUND CONDUIT SHALL BE POLYVINYLCHLORIDE (PVC) SUITABLE FOR DIRECT BURIAL AS APPLICABLE. JOINTS SHALL BE BELLED, AND FLUSH SOLVENT WELDED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS, CONDUIT SHALL BE CARLON ELECTRICAL PRODUCTS OR APPROVED EQUAL.
- C. TRANSITIONS BETWEEN PVC AND RIGID (RGS) SHALL BE MADE WITH PVC COATED METALLIC LONG SWEEP RADIUS ELBOWS.
- D. EMT OR RIGID GALVANIZED STEEL CONDUIT MAY BE USED IN FINISHED SPACES CONCEALED IN WALLS AND CEILINGS. BUT SHALL BE MILD STEEL ELECTRICALLY WELDED, ELECTRO-GALVANIZED OR HOT-DIPPED GALVANIZED AND PRODUCED TO ANSI SPECIFICATION CBO.3, FEDERAL SPECIFICATION WH'-C-563, AND SHALL BE UL LISTED. BUT SHALL BE MANIFACTURED BY ALLED, REPUBLIC OR WHEATLAND, OR APPROVED EQUAL FITTINGS SHALL BE METALLIC COMPRESSION. SET SCREW CONNECTIONS SHALL NOT BE ACCEPTABLE. NOT BE ACCEPTABLE.
- E. LIQUID TIGHT FLEXIBLE METALLIC CONDUIT SHALL BE USED FOR FINAL CONNECTION TO EQUIPMENT. FITTINGS SHALL BE METALLIC CLAND TYPE COMPRESSION FITTINGS, MAINTAINING THE INTEGRITY OF CONDUIT SYSTEM, SET SCREW CONNECTIONS SHALL NOT BE ACCEPTABLE. MAXIMUM LENGTH OF FLEXIBLE CONDUIT SHALL NOT EXCEED 6-FEET, LFMC SHALL BE PROTECTED AND SUPPORTED AS REQUIRE BY NEC. MANUFACTURERS OF FLEXIBLE CONDUITS SHALL BE CAROL, ANACONDA METAL HOSE OR UNIVERSAL METAL HOSE, OR APPROVED EQUAL.
- F. MINIMUM SIZE CONDUIT SHALL BE 3/4 INCH (21MM).

HUBS AND BOXES:

- A. AT ENTRANCES TO CABINETS OR OTHER EQUIPMENT NOT HAVING INTEGRAL THREADED HUBS PROVIDE METALLIC THREADED HUBS OF THE SIZE AND CONFIGURATION REQUIRED. HUB SHALL INCLUDE LOCKNUT AND NEOPRENE O-RING SEAL, PROVIDE IMPACT RESISTANT 105 DEGREE C PLASTIC BUSHINGS TO PROTECT CABLE INSULATION.
- B. CABLE TERMINATION FITTINGS FOR CONDUIT
- 1. CABLE TERMINATORS FOR RGS CONDUITS SHALL BE TYPE CRC BY O-Z/GEDNEY OR
- CABLE TERMINATORS FOR LFMC SHALL BE ETCO CL2075; OR MADE FOR THE PURPOSE PRODUCTS BY ROXTEC.
- C. EXTERIOR PULL BOXES AND PULL BOXES IN INTERIOR INDUSTRIAL AREAS SHALL BE PATIED CAST ALLOY, HEAVY DUTY, WEATHERPROOF, DUST PROOF, MITH CASKET, PLATED IRON ALLOY COVER AND STANLESS STEEL COVER SCREWS, CROUSE—HINDS WAB SERIES
- D. CONDUIT OUTLET BODIES SHALL BE PLATED CAST ALLOY WITH SIMILAR GASKETED COVERS. OUTLET BODIES SHALL BE OF THE CONFIGURATION AND SIZE SUITABLE FOR THE APPLICATION. PROVIDE CROUSE-HINDS FORM 8 OR EQUAL.
- E. MANUFACTURER FOR BOXES AND COVERS SHALL BE HOFFMAN, SQUARE "D", CROUSE—HINDS, COOPER, ADALET, APPLETON, O—Z GEDNEY, RACO, OR APPROVED

SUPPLEMENTAL GROUNDING SYSTEM

- A. FURNISH AND INSTALL A SUPPLEMENTAL GROUNDING SYSTEM TO THE EXTENT INDICATED ON THE DRAWINGS. SUPPORT SYSTEM WITH NON-MAGNETIC STAINLESS STEEL CLIPS WITH RIGHBER GROWNETS, GROUNDING CONNECTORS SHALL BE TINNED COPPER WIRE, SIZES AS INDICATED ON THE DRAWINGS. PROVIDE STRANDED OR SOLID BARE OR INSULATED CONDUCTORS EXCEPTED AS OTHERWISE NOTED.
- B. SUPPLEMENTAL GROUNDING SYSTEM: ALL CONNECTIONS TO BE MADE WITH CAD WELDS, EXCEPT AT EQUIPMENT USE LIJGS OR OTHER AVAILABLE GROUNDING MEANS AS REQUIRED BY MANUFACTURER; AT GROUND BARS USE TWO HOLE SPACES WITH NO OX.
- C. STOLEN GROUND-BARS: IN THE EVENT OF STOLEN GROUND BARS, CONTACT SPRINT CN FOR REPLACEMENT INSTRUCTION USING THREADED ROD KITS.
- D. ALL GROUNDING THAT TRANSITIONS FROM BELOW GRADE TO ABOVE GRADE MUST BE \$2 TINNED SOLID IN 3/4" LIQUID TIGHT CONDUIT FROM 24" BELOW GRADE TO WITHIN 3" TO 6" OF CAD-WELD TERMINATION POINT THE EXPOSED END OF THE LIQUID TIGHT CONDUIT MUST BE SEALED WITH SILICONE CALILK (ADD TRANSITIONING GROUND STANDARD DETAIL AS WELL).
- E. ALL INSTALLED GROUNDS ARE TO ACHIEVE 50HMS OR LESS RESISTANCE.

EXISTING STRUCTURE:

A. EXISTING EXPOSED WIRING AND ALL EXPOSED OUTLETS, RECEPTACLES, SWITCHES, DEVICES, BOXES, AND OTHER EQUIPMENT THAT ARE NOT TO BE UTILIZED IN THE COMPLETED PROJECT SHALL BE REMOVED OR DE-ENERGIZED AND CAPPED IN THE WALL, CEILING, OR FLOOR SO THAT THEY ARE CONCEALED AND SAFE, WALL, CEILING, FLOOR SHALL BE PATCHED TO MATCH THE ADJACENT CONSTRUCTION.

CONDUIT AND CONDUCTOR INSTALLATION:

- A. CONDUITS SHALL BE FASTENED SECURELY IN PLACE WITH APPROVED NON-PERFORATED STRAPS AND HANGERS. EXPLOSIVE DEVICES FOR ATTACHING HANGERS TO STRUCTURE WILL NOT BE PERMITTED. CLOSELY FOLLOW THE LINES OF THE STRUCTURE, WANTAIN CLOSE PROXIMITY TO THE STRUCTURE, AND KEEP CONDUITS IN TIGHT ENVELOPES. CHANGES IN DIRECTION TO ROUTE AROUND OBSTACLES SHALL BE MADE WITH CONDUIT OUTLET BODIES. CONDUIT SHALL BE INSTALLED IN A NEAT AND WORKMANLIKE MANNER, PARALLEL, AND PERPENDICULAR TO STRUCTURE WALL AND CEILING LINES, ALL CONDUIT PAROLLE AND PREPURDICUM TO STRUCTURE WALL AND CELLING LINES, ALL COMDUTE SHALL BE FISHED TO CLEAR OBSTRUCTIONS, ENDS OF CONDUITS SHALL BE TEMPORARILY CAPPED FILISH TO FINISHED GRADE TO PREVENT CONCRETE, PLASTER OR DITT FROM ENTERING, CONDUITS SHALL BE RIGIOLY CLAMPED TO BOXES BY CALVANIZED MALLERIE, IRON BUSHING ON INSIDE AND GALVANIZED MALLERIE.
- B. CONDUCTORS SHALL BE PULLED IN ACCORDANCE WITH ACCEPTED GOOD PRACTICE.
- C. ALL CONDUITS THAT ARE INSTALLED ARE TO HAVE METERED MULE TAPE PULL CORD
- D. SCHED. 40 PVC UNDERGROUND ON STRAIGHTS AND SCHEDULE 80 PVC FOR ALL ELBOWES/80'S AND ON ALL CONDUIT ABOVE GRADE THAT IS PVC. IF THESE COMMENTS ARE NEEDED THEN THERE NEEDS TO BE DETAILS SOMEWHERE IN THIS CO WHICH SHOW THE CROWN CASTLE TRENCHING STANDARDS INCLUDING THE 6" WIDE METALLIC



ADDITIONT

6580 Sorial Parkway Overland Park, Kansas 66251

PLANS PREPARED B



ENGINEERING LICENSE

STATE OF KAUTA

PE CERTIFICATE OF AUTHORIZATION #E-671

Fax: 913-438-7777

PER DISCULLIE MALO MICHAELL COMENS
KV KEVIN VALIALAELE
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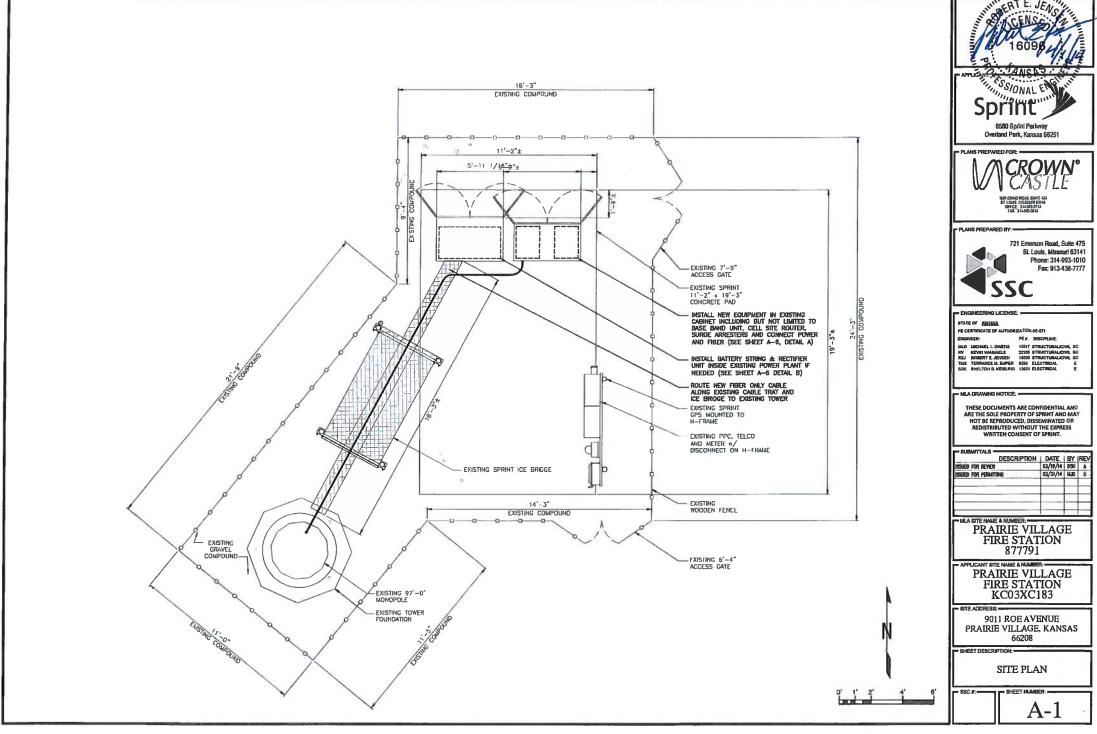
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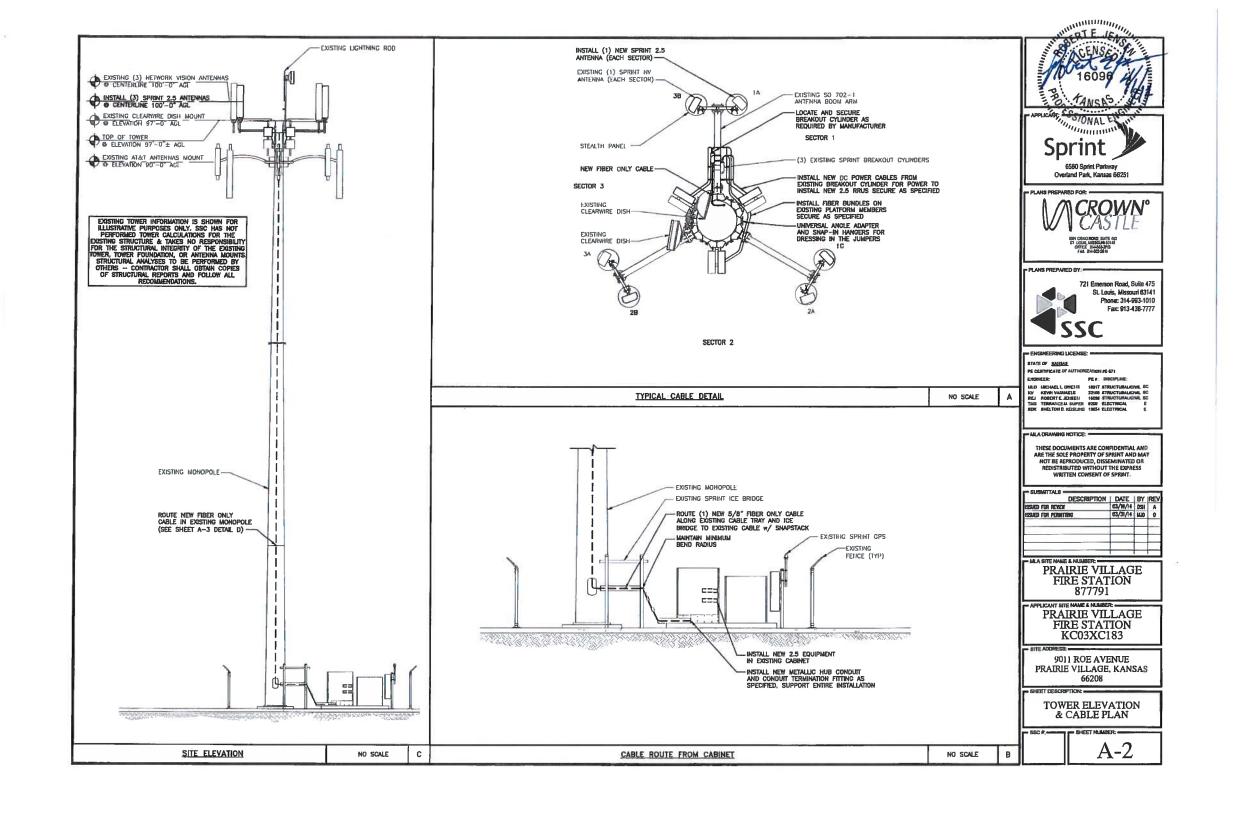
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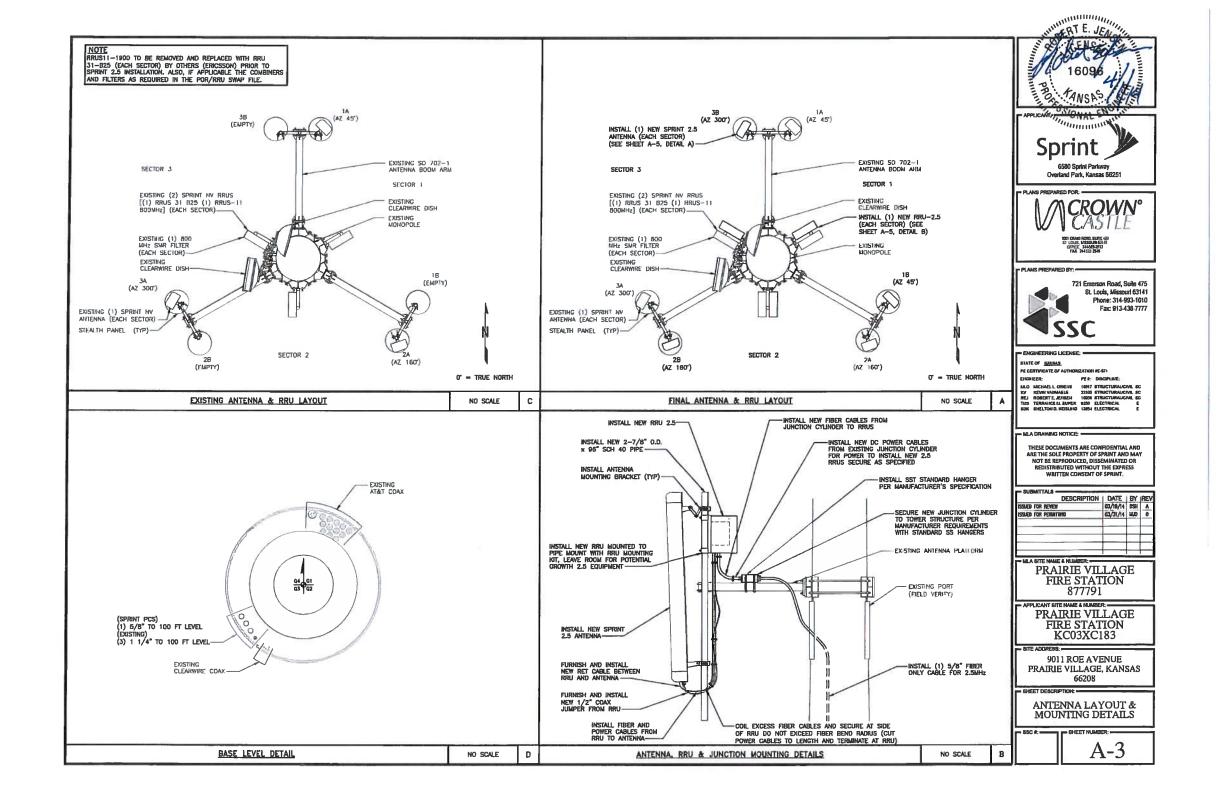
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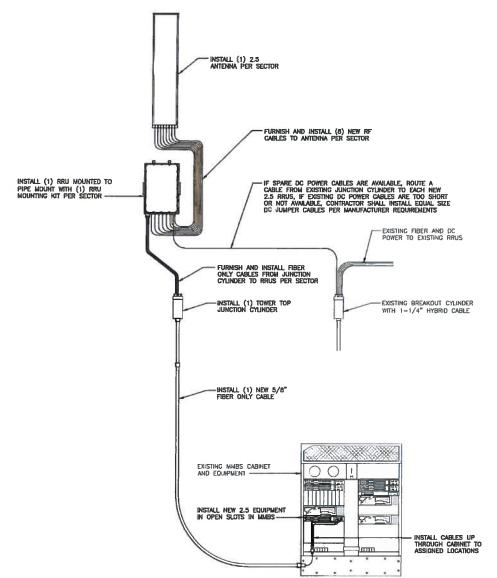


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	PROPOSED ANTENNA SCHEDULE													
SECTOR	MODEL NUMBER	ANTENNA MANUFACTURER	SURGE PROTECTOR	NUMBER OF FIBER CABLES	AZIMUTH	RAD CENTER	ELECT D-TILT	MECH D-TILT	RRU MODEL	RRU MANUFACTURER	RADAR FILTER	JUMPER SIZE	JUMPER QTY	JUMPER LENGTH
1	TYDA-252718DER4-65P	TONGYU COMMUNICATION	2 PER SECTOR	1 TOTAL	45"	100'	-2	0	FZHJ	NSN	-	1/2	8	8 FEET
2	TYDA-252718DER4-65P	TONGYU COMMUNICATION	2 PER SECTOR	-	160°	100'	2	0	FZHJ	NSN	-	1/2	8	8 FEET
3	TYDA-252718DER4-65P	TONGYU COMMUNICATION	2 PER SECTOR	#0	300°	100'	-2	0	FZHJ	NSN	-	1/2	8	8 FEET



2500MHz COLOR CODE								
2500MHz #1 CAL CABLE-SECTOR	CABLE	FIRST RING	SECOND RING	THIRD RING	FORTH RING	FIFTH RING	SIXTH	
1 ALPHA	1	YELLOW	BLACK	YELLOW	WHITE	BLACK	BLACI	
2 BETA	2	YELLOW	YELLOW	BLACK	YELLOW	WHITE	BLACI	
3 GAMMA	3	YELLOW	YELLOW	YELLOW	BLACK	YELLOW	WHITI	
2500MHz #2 CAL	CABLE	FIRST RING	SECOND RING	THIRD RING	FORTH RING	FIFTH RING		
	CABLE 1						SIXTI- RING BLACK	
#2 CAL CABLE-SECTOR	CABLE 1 2	RING	RING	RING	RING	RING	RING	



PLANS PREPARED BY:



STATE OF KAHSAS PE CERTIFICATE OF AUTHORIZATION #E-571

PE # DISCIPLINE: EHOHEER:

NIJO NIGONAEL L'OWEIS 18817 STRUCTURAL/COVA. SC NU NEVEL VANAMALE 22195 STRUCTURAL/COVA. SC NEL TROBERT L'JEBEN 18095 STRUCTURAL/COVA. SC TALLS TERRANCE LI SUPES 2006 ELECTRICAL SOK SHELTON D. NEISLING 19854 ELECTRICAL E

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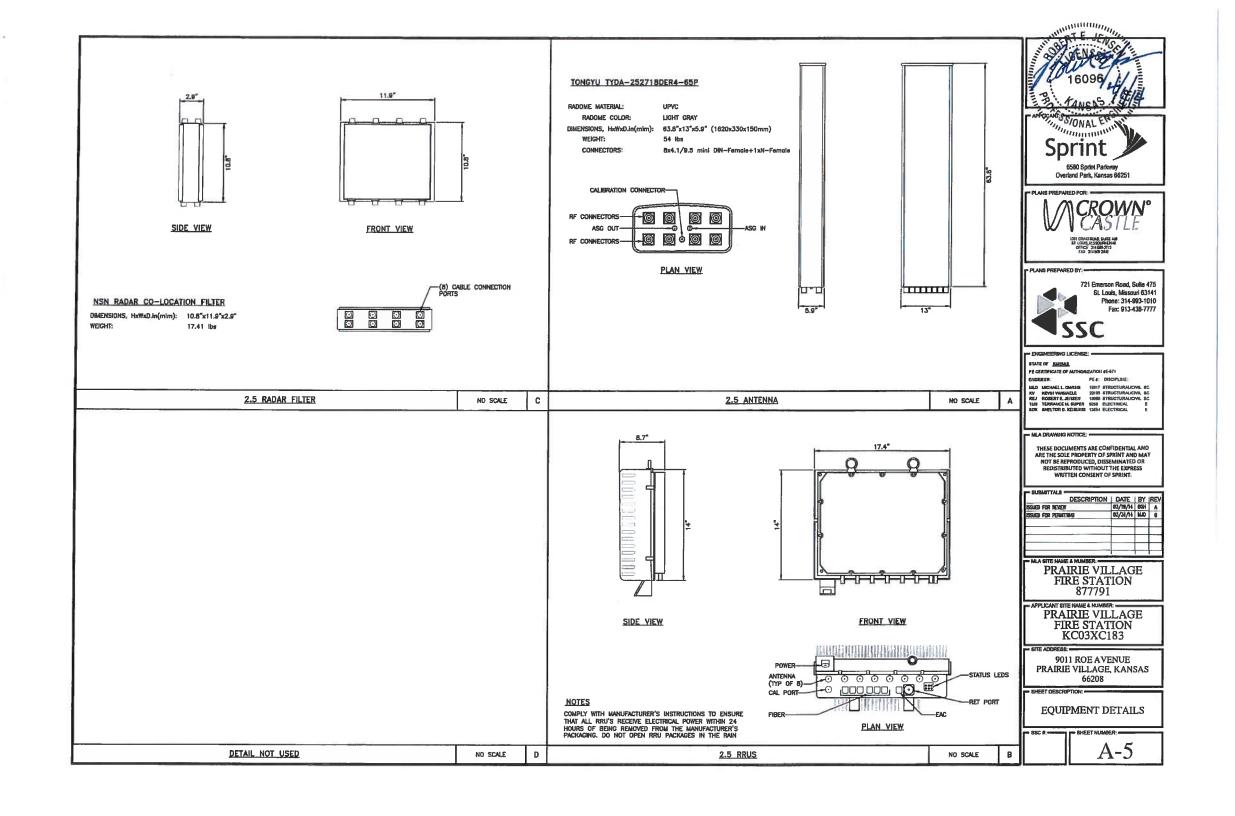
- APPLICANT SITE NAME & NUMBER; -PRAIRIE VILLAGE FIRE STATION KC03XC183

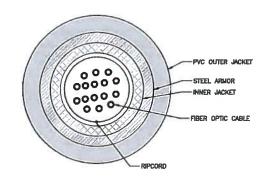
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- SITE ADDRESS:-

RF DATA & COLOR CODES SHEET NUMBER:

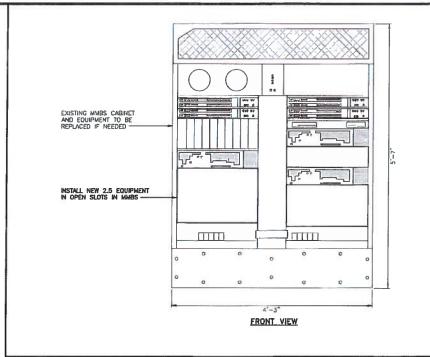




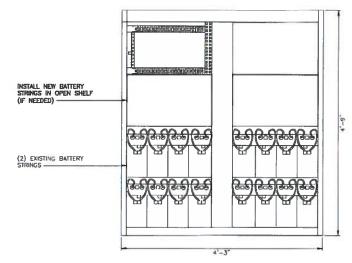
NOTE: CABLE CROSS-SECTION NOT DRAWN TO SCALE

CABLE CONSTRUCTION		
ARMOR	STEEL TAPE	
FIBER CABLES	FIBER TYPE	OS2 BEND- INSENSITIVE LOW
	WATER-PEAK SINGLE MODE	G.657.A1
	FIBER COUNT	16
	FIBER OD	0.010° (0.25 mm)
	NORMAL DIAMETER	0.315" (8 mm)
	JACKET	LOW-SMOKE ZERO-HALOGEN
OUTER JACKET	MATERIAL	PVC-UV RESISTANT
	COLOR	BLACK
	NOMINAL WALL	0.065° (1.7 mm)
	NOMINAL OD	.844" (18.10 mm)
	RIPCORD UNDER JACKET	
	ULTC TC-OF	
	FT-4 (FIBER)	
OTHER CHARACTERISTICS	-	
	BENDING RADIUS	14 INCHES
	OPERATING TEMP. (FIBER)	-40°C TO 70°C
	STORAGE TEMP. (FIBER)	-40°C TO 75°C
	INSTALLATION TEMP. (FIBER)	-30°C TO 60°C
	MAXIMUM LONG TERM LOAD (FIBER)	800 N (180 LBF)
	MAXIMUM SHORT TERM LOAD (FIBER)	2700 N (600 LBF)
	ESTIMATED CABLE WEIGHT	0.25 LBS/FT

FIBER ONLY CABLE X-SECTION AND DATA



EXISTING BBU WITH 2.5 EQUIPMENT NO SCALE



С

NÓ SCALE

FRONT VIEW

2.5 POWER CABINET NO SCALE APPLICATION OF THE PROPERTY OF Sprint 6580 Sprint Parkway Overland Park, Kansas 66251

PLANS PREPARED BY



= ENGINEERING LICENSE:

PE CERTIFICATE OF AUTHORIZATION (E-67)

PE 8: DISCIPLINE

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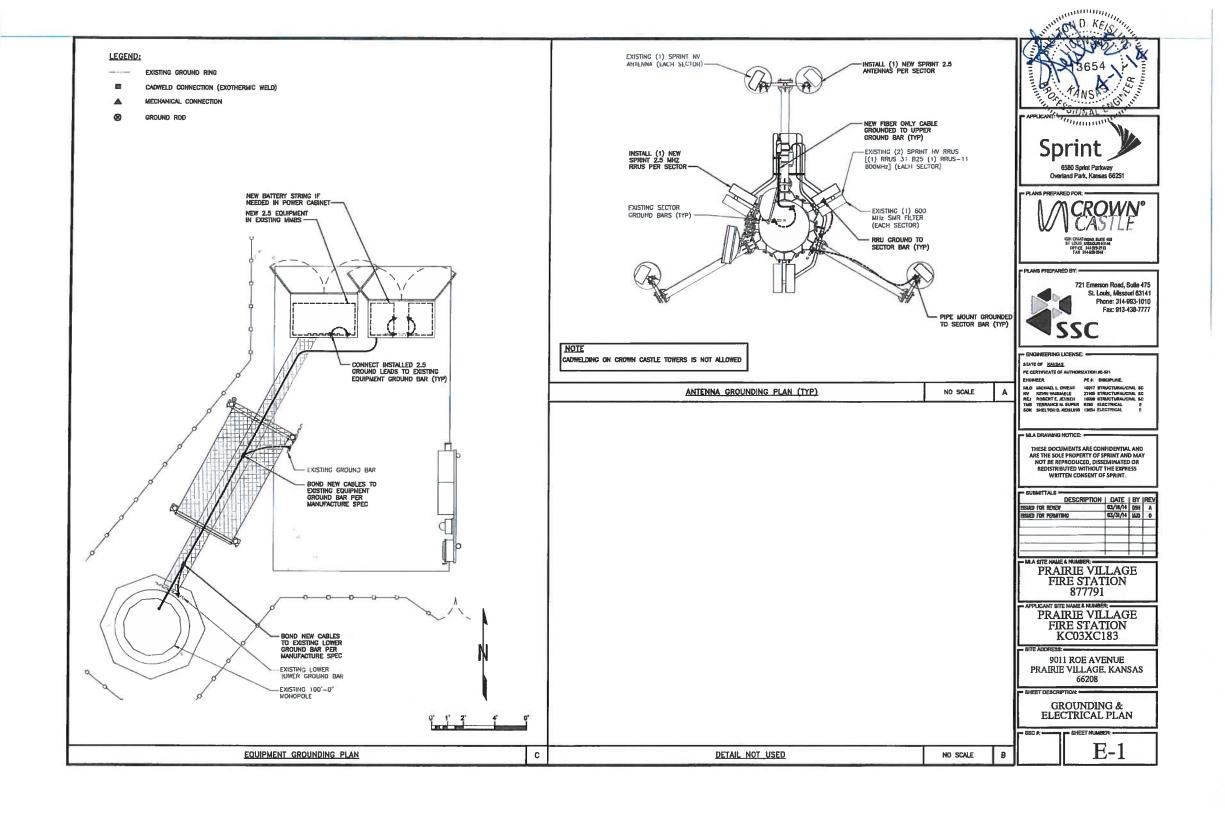
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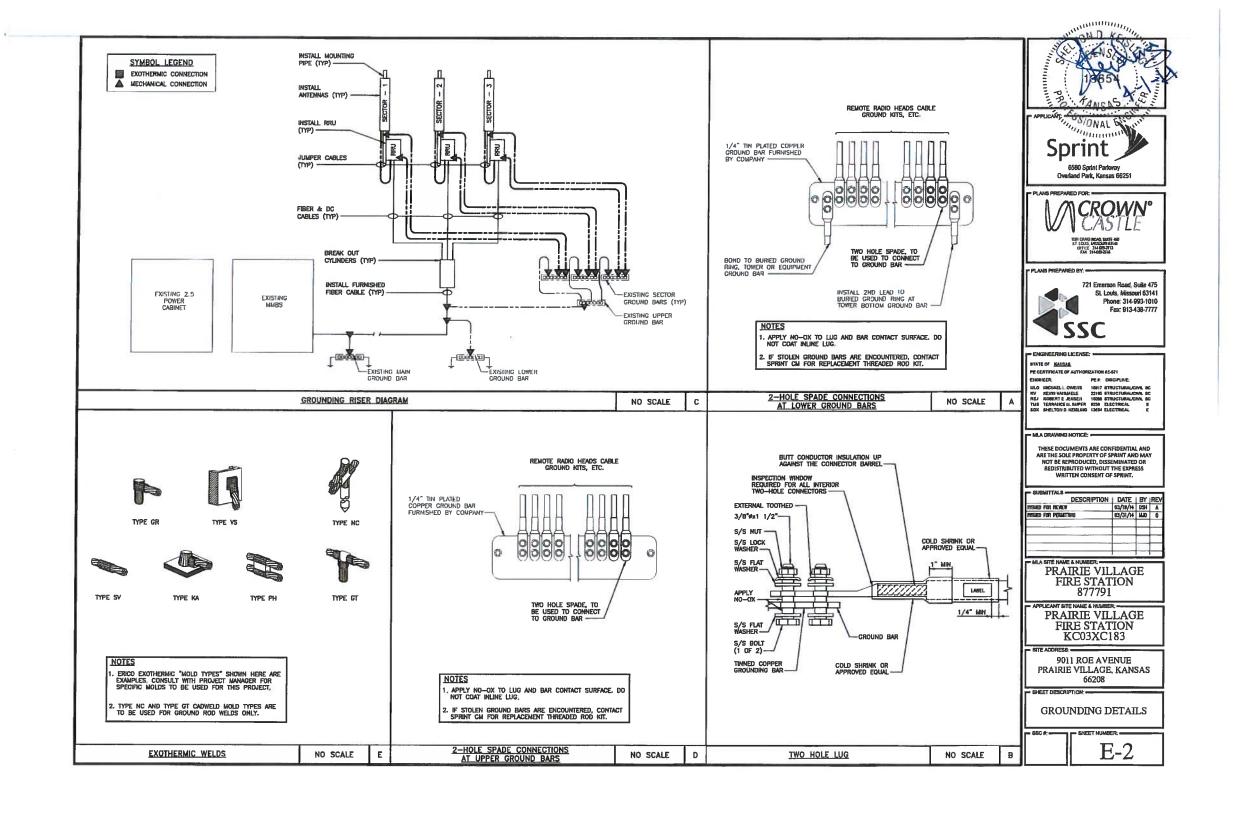
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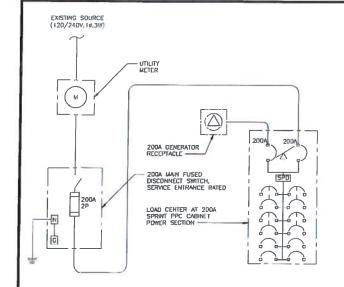
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EQUIPMENT DETAILS

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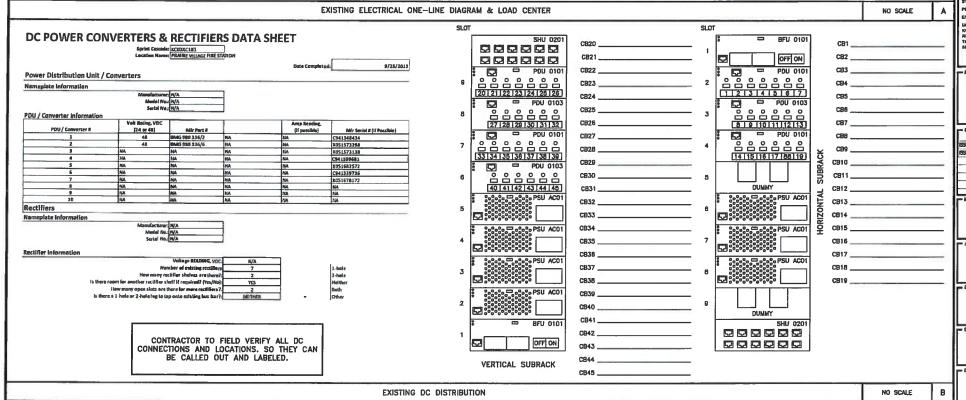




EXISTING PPC CIRCUIT BREAKER LOAD CENTER

SITE NUMBER:		MBER: KC03XC183		PHASE: SINGLE			WIRE:	3			
/OLTAGE	k '	240V/120		BUS RATING:		225 AMPS	1	AIC:		AIC:	
MAIN BRE	AKER:	200 AMP	200 AMP		NEUTRAL BAR:		YES GROUND BAS		TBD		
				SERVICE ENT	RANCE:	YEB/NO					
CKT	LOAD DESCRIPTION	BREAKER AMPS	BREAKER POLES	PHASE A VA	PHASE B VA	BREAKER POLES	BREAKER AMPS	LOAD DESCRIPTION	СКТ		
1	UNKNOWN	_	2	N/A		2	-	UNKNOWN	7		
2	-	_	-		N/A	_		-	8		
3	UNKNOWN	_	2	N/A		2	_	UNKNOWN	9		
4	-		_	Early Control	N/A	_	_	-	10		
6	UNKNOWN	_	1	N/A		1	_	UNKNOWN	11		
6	UNKNOWN		1	1000	N/A	1	_	UNKNOWN	12		
				0	0	TOTAL KVA	0.00	TOTAL CONNECTED LOAD			
						AMPS	0.00				

PHOTO OF CIRCUIT BREAKER UNCLEAR.







PLANS PREPARED BY:



St. Louis, Missouri 63141 Phone: 314-993-1010 Fax: 913-438-7777

•	ENGINEERING	LICENSE	,

REV REPRESENTE SERVICE SERVICE

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PRAIRIE VILLAGE FIRE STATION

877791 PRAIRIE VILLAGE

FIRE STATION KC03XC183

9011 ROE AVENUE PRAIRIE VILLAGE, KANSAS 66208

DC POWER & DISTRIBUTION

SHEET NUMBER:

LOCHNER

STAFF REPORT

TO: Prairie Village Planning Commission

FROM: Ron Williamson, FAICP, Lochner, Planning Consultant

DATE: May 6, 2014, Planning Commission Meeting Project # 000009686

Application: PC 2013-103

Request: Amendment of Sign Standards

Property Address: 4200 W. 83rd Street

<u>Applicant:</u> Luminous Signs for First National Bank

Current Zoning and Land Use: C-2 General Business District – Bank/Office Building

Surrounding Zoning and Land Use: North: C-2 General Business District – Corinth Square

East: C-2 General Business District – Corinth Square
 South: C-0 Office Building District – Office Building
 West: R-2 Two-Family Residential District – Duplexes

Legal Description: Lot 2 Corinth Square North

Property Area: 0.95 Acres

Related Case Files: PC 2013-103 Approval of Sign Standards and Monument Sign

PC 2011-116 Approval of Sign Standards for Corinth Square

PC 2011-117 Preliminary and Final Plat Approval PC 2006-112 Amendment to Sign Standards

Attachments: Application, Drawings, Proposed Sign Standards

General Location Map



Aerial Map



COMMENTS:

At its regular meeting on January 8, 2013, the Planning Commission approved sign standards and a monument sign for the First National Bank building. There are two other tenants in the building and the sign standards included a provision to place the names of these businesses on the stone wall on the east façade of the building. The applicant is requesting an amendment to move the tenant signs from the wall to the face of the canopy on the east façade of the building. The signs would be lettering only with no logos as were shown on the original approval.

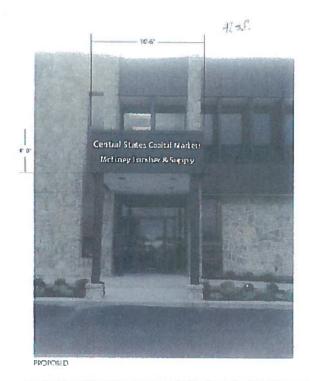
It is the opinion of Staff that this is a more attractive solution and is more compatible with the other building signage.

RECOMMENDATION:

It is the recommendation of Staff that the Planning Commission approve the sign amendment for the First National Bank as described in the text and displayed on the attached graphic subject to the applicant submitting of the revised final sign standards to the City prior to obtaining a sign permit.



East Building Façade



Central States Capital Markets McLiney Lumber & Supply

SPECIFICATIONS:

- FUTING! AND INSTAL. (1) SELEACH OF CEVTRAL STATES CAPITAL MARKETS
AND INCLINES LUMIER & SUPPLY FLAT QUI OUT LETTERS

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RIBBED FASCIA

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Proposed Amendment





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Approved January 8, 2013

Tenant Sign Criteria

First National Bank of Prairie Village

And Secondary Tenants

AMENDMENT

Designated sign area for secondary tenants:

East elevation Common Entrance-

Tenant A occupies the first floor office space. Tenant B occupies the second floor office space. Both share a common entrance. The designated sign area for both tenants will be on the entrance canopy and will be shared equally. (See exhibit A)

Secondary tenants shall each be allowed one primary identification sign located within the designated sign area. The sign will consist of individual letters constructed of X" computer cut aluminum letters. Letters will be primed and painted white. Letters to be mounted to raised rib facia above entrance as shown in exhibit A. The combined sign area shall not exceed 5% of the total combined less space.



Planning Commission Application

Please complete this form and return with

For Office Use Only Case No.: PC2013-10.3	Information requested to:
Case No.: <i>PC2013-103</i> Filing Fee: 100	·
Deposit: 8.1/	Assistant City Administrator
Date Advertised:	City of Prairie Village
Date Notices Sent:	7700 Mission Rd.
Public Hearing Date:	Prairie Village, KS 66208
	E-Mail_ssch_ltz@/hminensnem.com
Owner: Casey McLiney	Phone Number:
Address: 4200 W. 83rd	Zip:Zip:
Location of Property: Cornett	<u>5</u> C
Applicant requests consideration of detail) 5,9 5+ and ords	of the following: (Describe proposal/request in
AGRI	EEMENT TO PAY EXPENSES
the PRAIRIE VILLAGE BOARD OF ZON (City) for 5 g - + and con/c	n, CITÝ may incur certain expenses, such as publication
result of said application. Said costs submitted by CITY to APPLICANT. It	consible for and to CITY for all cost incurred by CITY as a shall be paid within ten (10) days of receipt of any bill is understood that no requests granted by CITY or any of all costs have been paid. Costs will be owing whether requested in the application. Owner's Signature/Date
V	

- 2. That new drives along Mission Road be designed to prohibit left turns and the design is approved by Public Works.
- 3. That the applicant use materials similar to those being used on the existing building and submit a material palette to Staff for approval.
- 4. That an outdoor lighting plan be submitted in accordance with Section 19.34.050 Outdoor Lighting of the Zoning Ordinance if applicable.
- 5. That the monument sign relocation plans be submitted to Staff for review and approval.
- 6. That the landscape plan be submitted to the Tree Board for review and approval prior to installation.
- 7. That all new mechanical units be screened from adjacent streets and properties.
- 8. That landscape islands be provided in the large parking area subject to review and approval of Staff.
- 9. That the applicant plat the property and that the plat be completed prior to occupancy of the new expansion.
- 10. That the site plan for the school expansion is approved subject to the approval of the Special Use Permit for the school. If the Special Use Permit is not approved by the Governing Body, the site plan shall be redrawn and resubmitted to the City removing the proposed school expansion.

The motion was seconded by Nancy Wallerstein and passed by a 7 - 0 vote.

PC2013-103 Monument Sign Approval - First National Bank 4200 West 83rd Street

Fred Stieg, with Luminous Neon, addressed the Commission presenting First National Bank located on the northeast corner of the 83rd and Somerset. This property was previously part of Corinth Square, Shopping Center, but is now under new ownership. The new owner is seeking approval for a monument sign and revised sign standards. A new monument sign was distributed to the Commission at the beginning of the meeting without the time & temperature feature on the original submittal. Mr. Steig stated the applicant has reviewed and accepts the staff comments and recommendation.

Nancy Vennard asked how far the proposed monument sign was from the intersection. Ron Williamson replied the plan is not clear and needs to be revised indicating that the sign will be setback 12 feet from the back of the curb from both 83rd Street and Somerset. It also must be on private property.

The proposed sign will be placed diagonally at the corner of 83^{rd} and Somerset Drive and will be double faced. The sign will be five feet in height. The sign face will be 104° x 26° which is 19.5 square feet meeting the city's code. The base of the sign will be made of the same stone as used on the building and the sign will be an aluminum cabinet with the sign base widened so that it matches the edges of the sign. The sign will be internally illuminated.

Nancy Wallerstein asked if there were other monument signs in the City that were back lit. Staff replied there are internally lit signs for UMB, Missouri Bank, Corinth Square and elsewhere.

Ron Williamson noted the temporary sign at this location will need to be removed. The applicant has submitted a landscape plan for the base of the sign identifying specific plant material and that condition #4 of the staff recommendation should be removed. The Commission members acknowledged the colorful landscape plan presented.

Bob Lindeblad moved the Planning Commission approve the revised monument sign presented subject to the following conditions:

- 1. That the site plan be clarified that the sign will setback 12' from the back of the curb of both 83rd Street and Somerset Drive.
- 2. That the base of the sign be widened to the same width of the sign.
- 3. That the applicant remove the temporary sign when the monument sign installation is complete.

The motion was seconded by Gregory Wolf and passed by a 7 - 0 vote.

Ron Williamson noted this property is still operating under the sign standards for the Corinth Square Shopping Center which it was previously part of. New sign standards have been submitted for the building which will be used for a bank and offices.

The Planning Commission may, in the process of approving sign standards, approve deviations for the standard requirements as follows, provided said deviations will provide an equal or better development, adjacent properties will not be adversely impacted, and the spirit and intent of regulation will not be violated by granting of the deviation:

- 1. One sign may be permitted per façade with no requirement that the tenant has direct outside entrance or that the sign be adjacent to its space.
- 2. That text not be restricted on monument signs provided the sign is designed and built primarily of brick, stone and masonry, complements the building and does not include a case or enclosed cabinet design.

PROPOSED BUILDING SIGNAGE

In paragraph 2, only one sign is permitted per facade by ordinance, not one sign per tenant. The word fascia should be changed to facade to be compatible with the Sign Ordinance. One facade sign would be permitted on each facade of the building.

In paragraph 3, the maximum size of the sign permitted is 5% of the area of the facade but shall not exceed 50 square feet.

In paragraph 5, only one sign is permitted per facade not per tenant.

The building does not have a sign band and the drawings need to be submitted to identify where the signs will be placed on the building.

MONUMENT SIGNS

In paragraph 1, four wall signs are permitted. In the second sentence, it should state, "The area of the monument sign...."

In the second paragraph, the electronic time and temperature display needs to be deleted because the ordinance only permits a time and temperature display on the wall of the building.

Bob Lindeblad moved the Planning Commission approve the revised sign standards with the following changes recommended by staff:

- 1. Building Signage Section
 - a. Change the text to one sign per facade.
 - b. Change the word fascia to facade.
 - c. Change the maximum size of the sign to 5% of the area of the facade but not exceeding 50 square feet.
 - d. Submit drawings identifying where the signs will be placed on the building.
- 2. Monument Signs Section
 - a. Paragraph 1, four wall signs are permitted. Add "the area of".
 - b. Delete the second paragraph.

Subject to the review and approval by staff. The motion was seconded by Dirk Schafer and passed by a 7 - 0 vote.

OTHER BUSINESS

Direction from City Council to set a Public Hearing on Countryside East Conservation Overlay District

Dennis Enslinger stated the City Council adopted the proposed ordinance revision (Chapter 19.25) allowing for the establishing of Neighborhood Conservation Overlay Districts at its meeting on Monday, December 17, 2012. At that meeting they also directed the Planning Commission to set a public hearing for the consideration of the establishment of the Countryside East Neighborhood Overlay District.

Mr. Enslinger distributed the proposed Countryside East Neighborhood Overlay District final proposal to the Commission noting the only difference from the previous information given to the Commission was the inclusion of the legal description of all the properties within the district and a map.

Nancy Wallerstein moved the Planning Commission authorize a public hearing on Tuesday, February 5th for consideration of the establishment of the Countryside East Neighborhood Overlay District pursuant to Chapter 19.25 of the Prairie Village Municipal Code. The motion was seconded by Gregory Wolf and passed by a 7 - 0 vote.

Next Meeting

The February 5th meeting of the Planning Commission will be held at the Indian Hills Middle School. The agenda items will include the public hearing for the Country East Neighborhood Overlay District, the continued application PC2013-101 for site plan approval at 8825 & 8839 Roe Avenue and approval of a plat for the St. Ann's Church and School property. The meeting will be followed by a worksession with the development team for the former Mission Valley School property. This will be a

Tenant Sign Criteria First National Bank of Prairie Village And secondary tenants Prairie Village, KS

The objective of the following sign criteria is to provide standards and specifications that assure consistent quality, size variety and placement for tenant signs on the First National Bank of Prairie Village Building. These criteria are also intended to achieve the highest standard of excellence in environmental graphic communication. Use of logos is encouraged but will ultimately be subject to review and final approval of Property owner.

BUILDING SIGNAGE

New building signs are limited to either halo illuminated reverse channel individual letter and/or contour logo or pan channel individual letter and/or contour logo sets with plexiglas faces. Signs to be mounted to existing facia wall or existing rock wall surface.

One (1) facade sign allowed per elevation within tenant's leased space with a maximum of four (4) signs. A wall sign will be allowed when a facade application is not available. Sign copy shall be the business name and logo in the tenants preferred font style. Business name to be as it is shown on their lease.

All signage is to be located on tenants leased space only and shall fit within the allowed fascia area to which it is attached. Signage area shall not exceed five (5) percent of the total area of the tenants leased elevation upon which it is placed as allowed by Prairie Village sign codes and regulations.

Signage area shall be computed as the smallest rectangular figure that can encompass all of the letters, words, logos or symbols. All spacing within any lettering, logos or symbols shall be counted as part of the sign's square footage.

- Internally illuminated pan channel letters/logos shall have plexiglas faces not more than 3/16" thick with applied vinyl or colored plexiglas faces. The Property Owner has no specifications regarding color of trim cap or returns, as long as whatever is used is complimentary to the signage, has 1" trim cap (min.), a letter depth of 4" minimum and LED illumination.
- Halo illuminated reverse channel letters shall be fabricated of aluminum with a clear lexan backing, a minimum depth of 3"and white LED illumination. Other halo illumination colors may be allowed on an individual basis only and with prior approval by the Property Owner and city. Signage to be space mounted 1 ½" off the fascia or wall.
- All mounting attachments shall be sleeved and painted to match the background panel coloring on which it is attached. Metal letters shall be fabricated using full welded construction, with all welds ground smooth so as not to be visible. All penetrations of the building structure that are required for sign installation must be neatly sealed in watertight condition and match the facade.
- Junction boxes, wires, transformers, conduits, supports, any visible fasteners and other equipment shall be concealed from public view.
- Clear plexiglas faces are not allowed. Exposed bulbs or exposed neon signs are not allowed.
- ALL LED COMPONENTS MUST BE CLASS 2 LOW VOLTAGE, MUST MEET ALL APPLICABLE ELECTRICAL AND BUILDING CODES AND MUST HAVE A UL LABEL.
- Note: The usage of time clocks for sign illumination is required, and lighting of signs shall be at the hours specified by Developer.

DIRECTIONAL SIGNS

Directional signs and way finding (drive-thru lane open/closed) signs are allowed but subject to the approval of the Property Owner and City of Prairie Village Planning Staff.

MONUMENT SIGNS

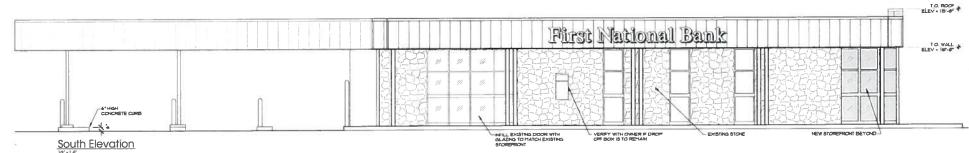
The tenant will be allowed one (1) free standing monument sign identifying the name of the business. The monument sign is limited to 20 sq. ft. and 5' overall height and shall be required to meet all set back requirements.

The First National Bank monument sign at the Southwest corner of the property will include an electronic Time and Temperature Display as shown in Exhibit A.









FFirst National Bank 44 08 SQ FT

SPECIFICATIONS:

- FURNISH AND INSTALL (2) SETS OF INTERNALLY-ILLUMINATED PAN CHANNEL LETTERS
- . LETTERS-WHITE FACES WITH BLACK TRIM CAPS AND RETURNS, ILLUMINATES WITH WHITE LEDS
- INSTALLS FLUSH MOUNTED ON RAISED RIB METAL FACIA OVER PLYWOOD BACKING.

CUSTOMER: NAME; LOCATION:	4200 W 83RD ST		1/7/13 SS-10305r4B JH
	CORINTH SQUARE SC PRAIRIE VILLAGE, KS 66208	SCALE:	1/4" = 1"

LUMINOUS Neonine DATE: APPROVED:



PROPOSED



- FURNISH AND INSTALL (1) DOUBLE-FACED, INTERNALLY-ILLUMINATED MONUMENT SIGN LOCATED AT SW CORNER OF PROPERTY (83RD AND SOMMERSET)
 ALUMINUM CABINET PAINTED SW7020 BLACK FOX. COPY ROUTED AND BACKED WITH WHITE PLEX.
- 2/14" H BEIGE VINYL COPY APPLIED TO, 1/4" THICK ALUMINUM PANEL PAINTED SW7020 BLACK FOX AND STUD MOUNTED FLUSH STONE
- INSTALLS ON STONE BASE BY OTHERS AND CONCRET MOWPAD.
- . EXISTING FOOTING TO BE REMOVED. PROVIDE ALL NEW FOOTING AND BASE. LANDSCAPE PLAN REQUIRED.

CUSTOMER: FIRST NATIONAL BANK OF PV NAME: LOCATION:

MICHAEL MASON 4200 W 83RD ST CORINTH SQUARE SC

PRAIRIE VILLAGE, KS 66208

DATE: ARTIST:

DATE:

1/6/13 DESIGN NO: SS-10305-1r7

SCALE: 3/4" = 1"

APPROVED:

ART & SIGN SYSTEMS

