



**BOARD OF SUPERVISORS AGENDA ITEM REPORT  
CONTRACTS / AWARDS / GRANTS**

Award  Contract  Grant

Requested Board Meeting Date: January 02, 2018

*\* = Mandatory, information must be provided*

or Procurement Director Award

**\*Contractor/Vendor Name/Grantor (DBA):**

Sprint Spectrum Realty Company, LLC, a Delaware Limited Liability Company ("Sprint").

**\*Project Title/Description:**

First Amendment to Tower License for Wireless Communications Facilities at 7300 N. Shannon Road ("First Amendment"); LCP-0133; Supervisor District 1.

**\*Purpose:**

Licensee will replace and update communications equipment on the County owned tower as shown on Exhibit A-1 attached to the First Amendment.

**\*Procurement Method:**

Exempt per Pima County Code Section 11.04.020

**\*Program Goals/Predicted Outcomes:**

To stipulate terms and conditions under which Sprint may replace and install certain new equipment at the site leased to Sprint at the County-owned Nanini Governmental Center.

**\*Public Benefit:**

Operation and maintenance of Sprint's wireless communications facilities for the benefit of its cell phone customers in unincorporated Pima County.

**\*Metrics Available to Measure Performance:**

Sprint is required to obtain all necessary permits to proceed with construction at the site and will be required to provide a satisfactory structural analysis before installation of any of the replacement equipment.

**\*Retroactive:**

No.

*To: COB-12-19-17  
Pgs- 11  
(2)*

**Contract / Award Information**

Document Type: \_\_\_\_\_ Department Code: \_\_\_\_\_ Contract Number (i.e.,15-123): \_\_\_\_\_

Effective Date: \_\_\_\_\_ Termination Date: \_\_\_\_\_ Prior Contract Number (Synergen/CMS): \_\_\_\_\_

Expense Amount: \$\* \_\_\_\_\_  Revenue Amount: \$ \_\_\_\_\_

**\*Funding Source(s) required:**

Funding from General Fund?  Yes  No If Yes \$ \_\_\_\_\_ % \_\_\_\_\_

Contract is fully or partially funded with Federal Funds?  Yes  No

**\*Is the Contract to a vendor or subrecipient?**

Were insurance or indemnity clauses modified?  Yes  No

*If Yes, attach Risk's approval*

Vendor is using a Social Security Number?  Yes  No

*If Yes, attach the required form per Administrative Procedure 22-73.*

**Amendment / Revised Award Information**

Document Type: CTN Department Code: PW Contract Number (i.e.,15-123): 17-195

Amendment No.: One (1) AMS Version No.: Two (2)

Effective Date: 01/02/2018 New Termination Date: \_\_\_\_\_

Prior Contract No. (Synergen/CMS): \_\_\_\_\_

Expense or  Revenue  Increase  Decrease Amount This Amendment: \$ -0-

Is there revenue included?  Yes  No If Yes \$ \_\_\_\_\_

**\*Funding Source(s) required:** Sprint

Funding from General Fund?  Yes  No If Yes \$ \_\_\_\_\_ % \_\_\_\_\_

**Grant/Amendment Information** (for grants acceptance and awards)  Award  Amendment

Document Type: \_\_\_\_\_ Department Code: \_\_\_\_\_ Grant Number (i.e.,15-123): \_\_\_\_\_

Effective Date: \_\_\_\_\_ Termination Date: \_\_\_\_\_ Amendment Number: \_\_\_\_\_

Match Amount: \$ \_\_\_\_\_  Revenue Amount: \$ \_\_\_\_\_

**\*All Funding Source(s) required:**

\*Match funding from General Fund?  Yes  No If Yes \$ \_\_\_\_\_ % \_\_\_\_\_

\*Match funding from other sources?  Yes  No If Yes \$ \_\_\_\_\_ % \_\_\_\_\_

\*Funding Source: \_\_\_\_\_

**\*If Federal funds are received, is funding coming directly from the Federal government or passed through other organization(s)?** \_\_\_\_\_

Contact: Michael D. Stofko

Department: Real Property Services Telephone: 520-724-6667

Department Director Signature/Date:  12/11/2017

Deputy County Administrator Signature/Date:  12/14/17

County Administrator Signature/Date:  12/15/17

*(Required for Board Agenda/Addendum Items)*

<p><b>PIMA COUNTY DEPARTMENT OF:</b> INFORMATION TECHNOLOGY</p> <p><b>PROJECT:</b> TOWER LICENSE AGREEMENT</p> <p><b>LICENSEE:</b> Sprint Spectrum Realty Company, LLC</p> <p><b>CONTRACT NO.:</b> CTN-PW-17-195</p> <p><b>CONTRACT AMENDMENT NO.:</b> One (1)</p>	<table border="1"> <tr> <td colspan="2" style="text-align: center;"><b>CONTRACT</b></td> </tr> <tr> <td><b>NO.</b></td> <td><u>CTN-PW-17-195</u></td> </tr> <tr> <td><b>AMENDMENT NO.</b></td> <td><u>01</u></td> </tr> <tr> <td colspan="2"> This number must appear on all  invoices, correspondence and  documents pertaining to this  contract. </td> </tr> </table>	<b>CONTRACT</b>		<b>NO.</b>	<u>CTN-PW-17-195</u>	<b>AMENDMENT NO.</b>	<u>01</u>	This number must appear on all invoices, correspondence and documents pertaining to this contract.	
<b>CONTRACT</b>									
<b>NO.</b>	<u>CTN-PW-17-195</u>								
<b>AMENDMENT NO.</b>	<u>01</u>								
This number must appear on all invoices, correspondence and documents pertaining to this contract.									

FIRST AMENDMENT TO TOWER LICENSE  
FOR WIRELESS COMMUNICATIONS FACILITIES  
(Nanini Governmental Center, 7300 N. Shannon Road)

This First Amendment to Tower License (the "First Amendment") is entered into by and between Pima County, a political subdivision of the State of Arizona ("County"), and Sprint Spectrum Realty Company, LLC, a Delaware Limited Liability Company ("Licensee"), and is effective upon execution by the Pima County Board of Supervisors.

RECITALS

County and Licensee entered into a Tower License for Wireless Communications Facilities (the "License") at the County-owned Nanini Governmental Center, 7300 N. Shannon Road ("Nanini"), effective as of April 15, 2017, with a termination date of April 14, 2027. The License grants non-exclusive permission to Licensee to install, maintain, operate and remove certain communications equipment (the "Equipment") on the County-owned tower at Nanini, as well as the use of approximately four-hundred (400) square feet of ground space as described on **Exhibit A** attached to the License. The permitted equipment consisted only of the equipment described in **Exhibit A** to the License, and any additions or changes to the Equipment as described therein, or any changes to **Exhibit A** itself, are permitted only by a modification of the License pursuant to Section 26 thereof.

With this First Amendment, Licensee desires to add but is not limited to six (6) new Panel Antennas; (9) new Remote Radio Heads; associated cabling; and replace ground equipment as set out on the Site and Elevation Plans, for a Final Antenna Plan of 9 Panel Antennas, 12 Remote Radio Heads and associated cabling attached hereto as **Exhibit A-1**. Licensee has provided a satisfactory structural analysis in accordance with the Final Antenna Plan and shall obtain a building permit before installation of any of the aforementioned equipment.

AGREEMENT


WHEREFORE, the parties to this First Amendment agree as follows:

1. **Exhibit A** to the License shall be and hereby is replaced and superseded by **Exhibit A-1** attached to this First Amendment.
2. All other provisions of the License not expressly amended herein remain in effect and continue to be binding upon the parties thereto.

IN WITNESS WHEREOF, the parties have affixed their signatures to this First Amendment to Tower License on the dates written below.

LICENSEE:

SPRINT SPECTRUM REALTY  
COMPANY, LLC, a Delaware Limited  
Liability Company

By:   
Perry Myers  
Its: Market Manager AZ/NM

Date: 11/27/2017

LICENSOR:

PIMA COUNTY

\_\_\_\_\_  
Sharon Bronson, Chair  
Pima County Board of Supervisors

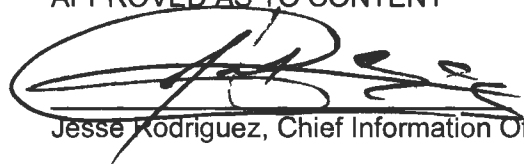
Date: \_\_\_\_\_

Attest:

\_\_\_\_\_  
Julie Castaneda, Clerk of the Board

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

APPROVED AS TO CONTENT

  
Jesse Rodriguez, Chief Information Officer

Date: 12/8/17

APPROVED AS TO FORM:

  
Tobin Rosen, Deputy County Attorney

Date: 12/7/17

EXHIBIT "A-1"



# DO MACRO UPGRADE TUC NORWEST PH04XC034-E

7300 N. SHANNON RD  
TUCSON, AZ 85741  
LATITUDE: 32° 20' 22.49"N  
LONGITUDE: 111° 1' 40.69"W  
TUCSON MARKET

SHEET	DESCRIPTION
T-1	TITLE SHEET, VARIETY OF AIR CABLE, SPECIALTY
Q-1	QUALITY IMPROVEMENTS
Q-2	QUALITY IMPROVEMENTS, DETAILED AIR VARIETY TYPES
GEN. PLAN	
A-1	GENERAL SITE PLAN
A-2	CONCRETE/FIBER CONDUIT AND AIRWAY PLAN
A-3	CONCRETE/FIBER CONDUIT
A-4	CONCRETE/FIBER CONDUIT
A-5	CONCRETE/FIBER CONDUIT
A-6	CONCRETE/FIBER CONDUIT
A-7	CONCRETE/FIBER CONDUIT
A-8	CONCRETE/FIBER CONDUIT
ELECTRICAL PLAN	
E-1	1-LINE SINGLE PHASE GENERAL GENERAL PLAN & NOTES

PLANS PREPARED FOR

CONTRACTOR

8002 E VA DE VENTURA, SUITE 220  
SCOTTSDALE, AZ 85258

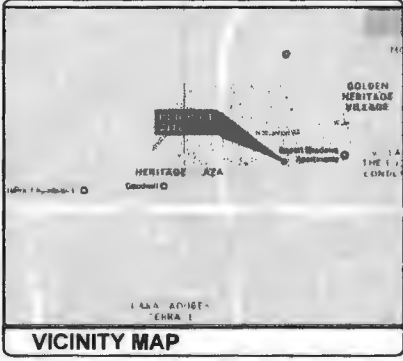
DESIGNER OF RECORD

2227 W PECOS RD, SUITE 4  
CHANDLER, AZ 85224

**ARIZONA STATE CODE COMPLIANCE:**  
ALL WORK AND MATERIALS SHALL BE PERFORMED AND SUPPLIED IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE FOLLOWING CODES ADOPTED BY THE LOCAL GOVERNING AUTHORITIES. NOTHING IN THESE PLANS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THESE CODES.

2012 INTERNATIONAL BUILDING CODE  
2012 INTERNATIONAL MECHANICAL CODE  
2011 NATIONAL ELECTRICAL CODE/NEC-70

**ACCESSIBILITY REQUIREMENTS:**  
THIS FACILITY IS UNDESIGNED AND NOT FOR MAJOR PERSONAL HANDICAPPED ACCESS REQUIREMENTS ARE NOT REQUIRED IN ACCORDANCE WITH THE CURRENT INTERNATIONAL BUILDING CODE.



**SPRINT PROPOSED THE FOLLOWING:**  
REMOVE EXISTING PLATFORM MOUNT  
ADD (2) NEW SECTOR MOUNTS  
ADD (3) NEW ANTENNAS, (2) PER SECTOR  
ADD (1) NEW 8/4" FIBER LINE  
ADD (1) NEW 1-1/4" FIBER/PLC CABLE  
ADD (4) NEW BATTERIES IN EXISTING BATTERY CABINET

**CLIENT:**  
SPRINT  
11811 NORTH DENALI BLVD, SUITE P100  
PHOENIX, AZ 85028  
CONTACT: TERRY DUFFIELD  
PHONE: (602) 954-9899

**SITE ACQ. CONSULTANT:**  
SMARTLINK LLC  
8002 E VA DE VENTURA, SUITE 220  
SCOTTSDALE, AZ 85258  
CONTACT: PATRICIA RAMSEY  
PHONE: (480) 208-9898

**DESIGN FIRM:**  
WYCO FIELD SERVICES  
2227 W PECOS RD, SUITE 4  
CHANDLER, AZ 85224  
CONTACT: CHRIS WOLFE  
PHONE: (602) 281-0223

**CIVIL ENGINEER:**  
AMATEC CONSULTANTS  
2447 W 12TH ST, SUITE #1  
PHOENIX, AZ 85015  
CONTACT: ALAN MURPHY  
PHONE: (480) 827-9886

**ELECTRICAL ENGINEER:**  
EXCELLENCE IN ENGINEERING  
12005 ANTELOPE TRAIL  
PARKER, COLORADO 80138  
CONTACT: LOREN PRIEST  
PHONE: (303) 748-1189

APPROVAL	SIGNATURE	DATE
DATE APPROVED & ISSUED		
DESIGNER		
DATE ISSUED		
PLANNING		
BY ISSUED		
PROJECT		
DATE		

**FROM THE SPRINT OFFICE IN PHOENIX, AZ**

GET ON AZ-51 S FROM E PARADISE VILLAGE PKWY S AND E CACTUS RD FOR 2.2 MI. HEAD NORTHWEST ON N TATUM BLVD TOWARD E PARADISE VILLAGE PKWY S FOR 0.1 MI. TURN LEFT AT THE 1ST CROSS STREET ONTO E PARADISE VILLAGE PKWY S FOR 0.8 MI. TURN LEFT ONTO E CACTUS RD. 0.8 MI. CONTINUE STRAIGHT TO STAY ON E CACTUS RD FOR 0.8 MI. MERGE ONTO AZ-51 S FOR 0.3 MI. FOLLOW I-10 E TO I-10 FRONTAGE RD IN MARANA. TAKE EXIT 290 FROM I-10 E FOR 1.1 MI. MERGE ONTO AZ-51 S FOR 0.7 MI. MERGE ONTO I-10 E TOWARD TUCSON FOR 7.8 MI. KEEP LEFT AT THE FORK TO STAY ON I-10 E FOR 0.1 MI. CONTINUE STRAIGHT TO STAY ON I-10 E FOR 89.2 MI. TAKE EXIT 280 TOWARD ORANGE GROVE ROAD FOR 0.2 MI. FOLLOW W ORANGE GROVE RD AND N SHANNON RD TO YOUR DESTINATION IN CASAS ADOBES FOR 2.8 MI. MERGE ONTO I-10 FRONTAGE RD FOR 0.1 MI. TURN LEFT ONTO W ORANGE GROVE RD FOR 0.5 MI. CONTINUE STRAIGHT TO STAY ON W ORANGE GROVE RD FOR 0.5 MI. TURN LEFT ONTO N SHANNON RD FOR 1.1 MI. TURN RIGHT TO STAY ON N SHANNON RD FOR 410 FT. CONTINUE STRAIGHT

**PROJECT DESCRIPTION**

**APPLICANT:**  
SPRINT C/O SMARTLINK LLC  
8002 E VA DE VENTURA, SUITE 220  
SCOTTSDALE, AZ 85258  
CONTACT: PATRICIA RAMSEY  
PHONE: (480) 208-9898

**PROPERTY OWNER:**  
PIMA COUNTY  
201 N. STONE AVENUE, 6TH FL.  
TUCSON, AZ 85701

**REAL ESTATE:**  
CONTACT: MICHAEL STOFKO  
PHONE: (520) 734-0887  
EMAIL: MLE.STOFKO@PIMA.GOV

**INFORMATION TECHNOLOGY:**  
CONTACT: JAY HOGAN  
PHONE: (602) 7243315  
EMAIL: JAY.HOGAN@PIMA.GOV

**ZONING CLASSIFICATION:** C-1  
JURISDICTION: PIMA COUNTY  
DESIGN/NEW USE: UNDESIGNED (WIRELESS TELECOMMUNICATIONS FACILITY)

**PARCEL NUMBER:**  
229-49-028A

**PROJECT TEAM**

PRELIMINARY NOT FOR CONSTRUCTION OR RECORDATION

NO.	DATE	DESCRIPTION	BY
A	09/13/17	POK C/P	JP
B	10/25/17	CLIENT COMMENTS	APR
C	11/15/17	CLIENT COMMENTS	CR

**PROJECT INFORMATION**

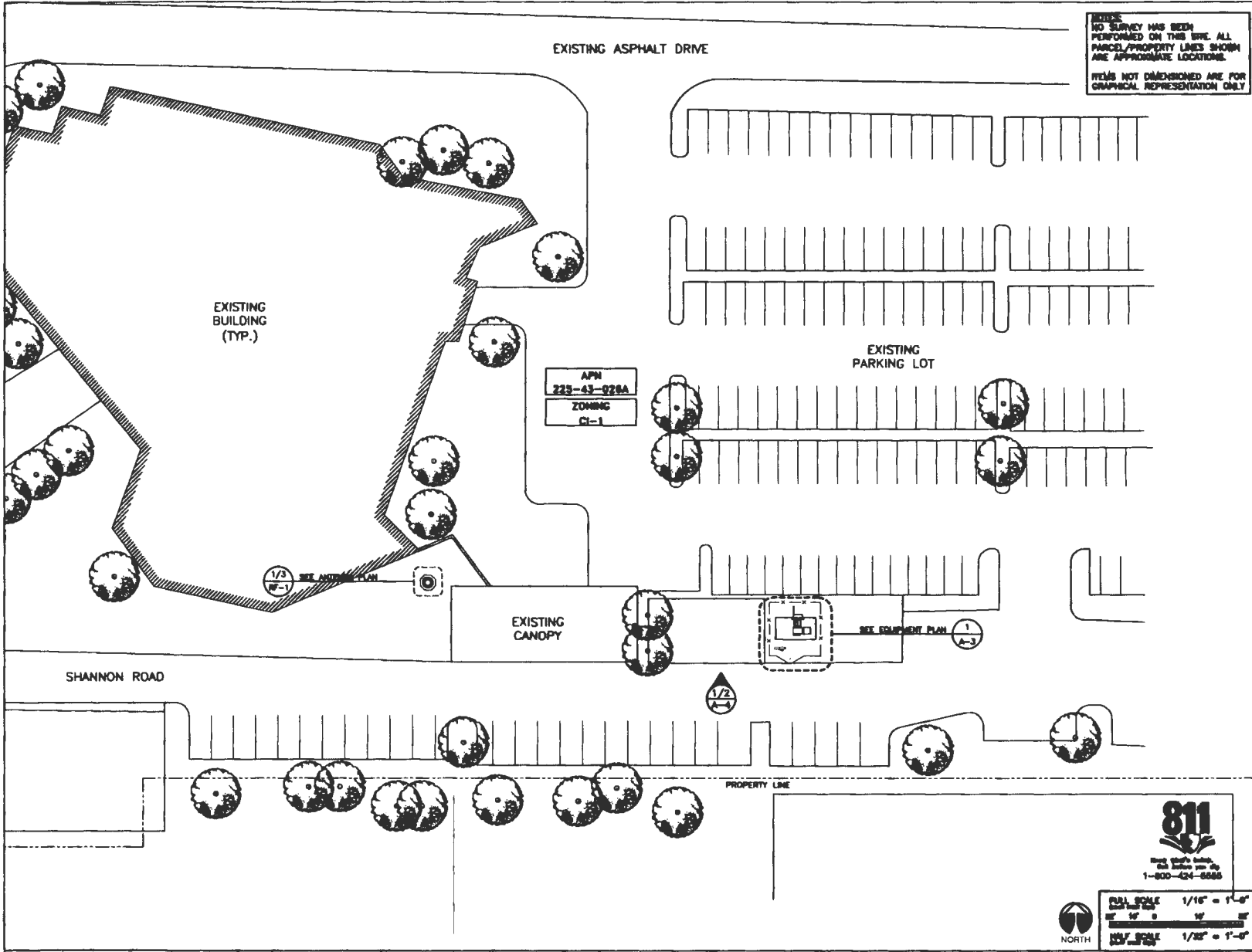
**TUC NORWEST  
PH04XC034-E**

7300 N. SHANNON RD  
TUCSON, AZ 85741

**TITLE SHEET,  
VICINITY MAP &  
GENERAL INFO.**

**SHEET NUMBER**

T-1



NOTE:  
NO SURVEY HAS BEEN  
PERFORMED ON THIS SITE. ALL  
PARCEL/PROPERTY LINES SHOWN  
ARE APPROXIMATE LOCATIONS.  
  
ITEMS NOT DIMENSIONED ARE FOR  
GRAPHICAL REPRESENTATION ONLY

PLANS PREPARED FOR

Together with Merit.

CONSULTANT

8002 E VA DE WENFURA, SUITE 230  
SCOTTSDALE, AZ 85280

ENGINEER OF RECORD

WHERE QUALITY STILL COUNTS.  
2227 W PEDON RD. SUITE 4  
CHANDLER, AZ 85224

PRELIMINARY NOT  
FOR CONSTRUCTION  
OR RECORDATION

NO.	DATE	DESCRIPTION	BY
A	08/13/17	90% CIP'S	JR
B	10/25/17	CLIENT COMMENTS APR	
C	11/13/17	CLIENT COMMENTS CR	

PROJECT INFORMATION

**TUC NORWEST  
PH04XC034-E**

7200 N. SHANNON RD  
TUCSON, AZ 85741

SHEET TITLE

**OVERALL SITE PLAN**

SHEET NUMBER

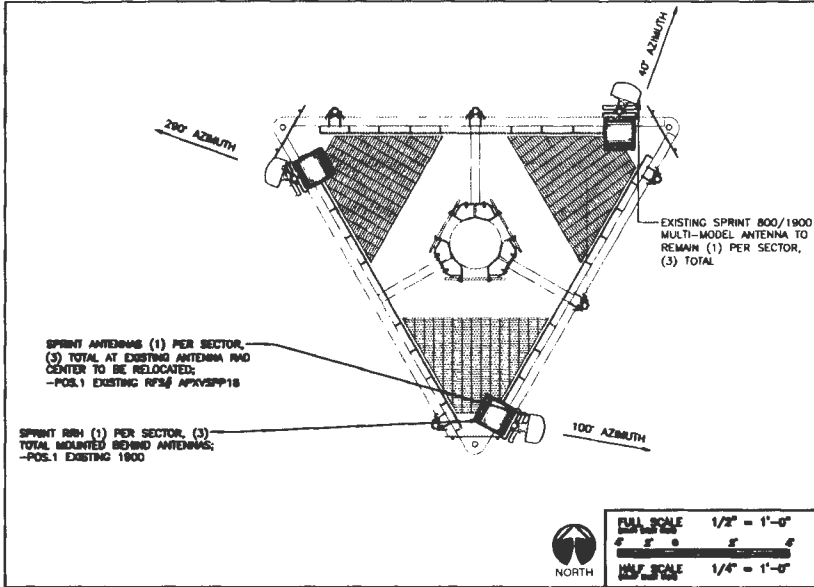
**A-1**



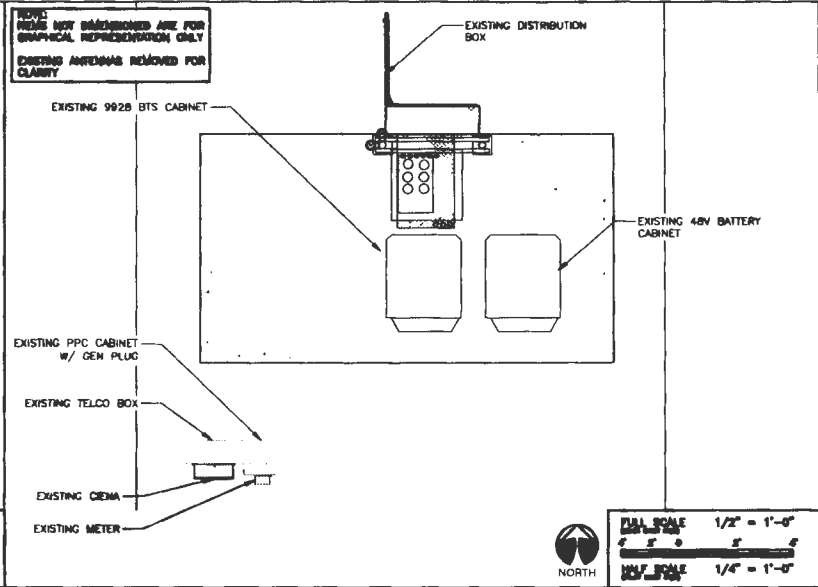
**FULL SCALE** 1/16" = 1'-0"  
1" = 16'-0"

**HALF SCALE** 1/32" = 1'-0"  
1" = 32'-0"

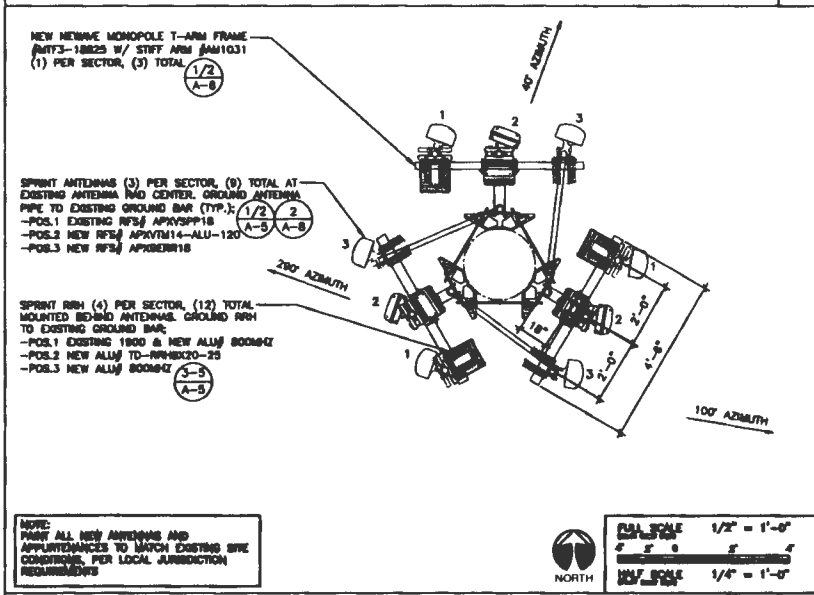




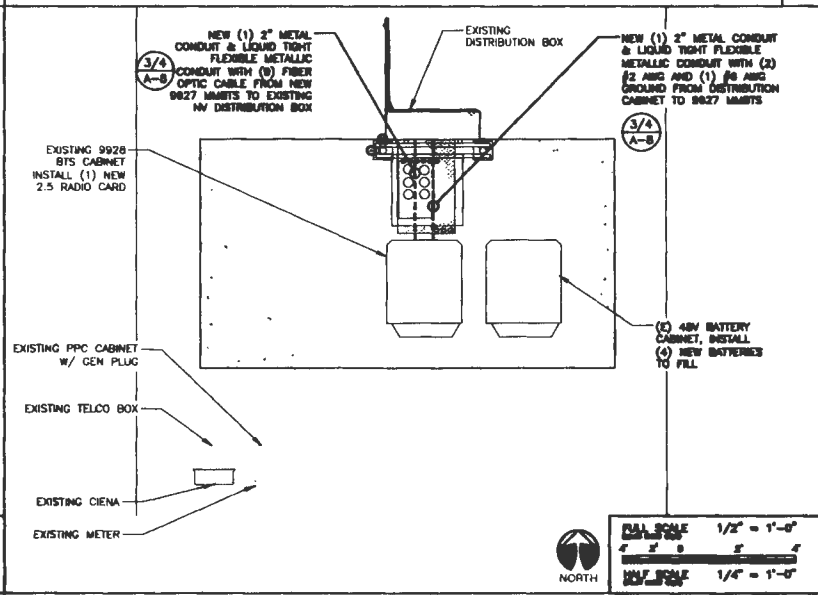
EXISTING ANTENNA PLAN 3



EXISTING EQUIPMENT PLAN 1



FINAL ANTENNA PLAN 4



FINAL EQUIPMENT PLAN 2

PLANS PREPARED FOR

Together with Nextel.

CONSULTANT

8502 E VIA DE VERDURA, SUITE 250  
SCOTTSDALE, AZ 85258

ENGINEER OF RECORD

Where quality still counts.  
2227 W PEDOS RD, SUITE 4  
CHANDLER, AZ 85224

PRELIMINARY NOT FOR CONSTRUCTION OR RECORDATION

NO.	DATE	DESCRIPTION	BY
A	08/15/17	SOB CD'S	JD
B	10/23/17	CLEAR COMMENTS	APR
C	11/15/17	CLEAR COMMENTS	CH

PROJECT INFORMATION

TUC NORWEST  
PH04XC034-E

7288 N. SHANNON RD  
TUCSON, AZ 85741

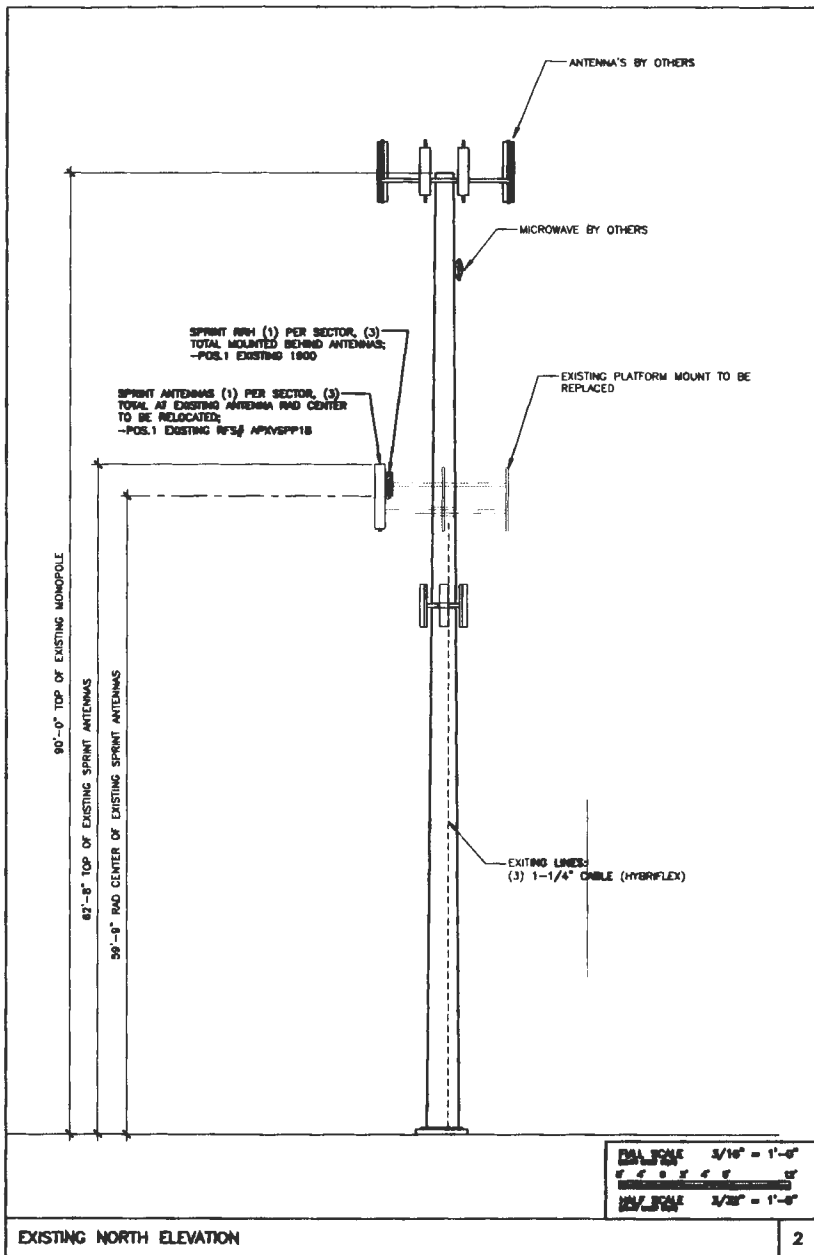
SHEET TITLE

EXISTING/FINAL EQUIPMENT AND ANTENNA PLAN

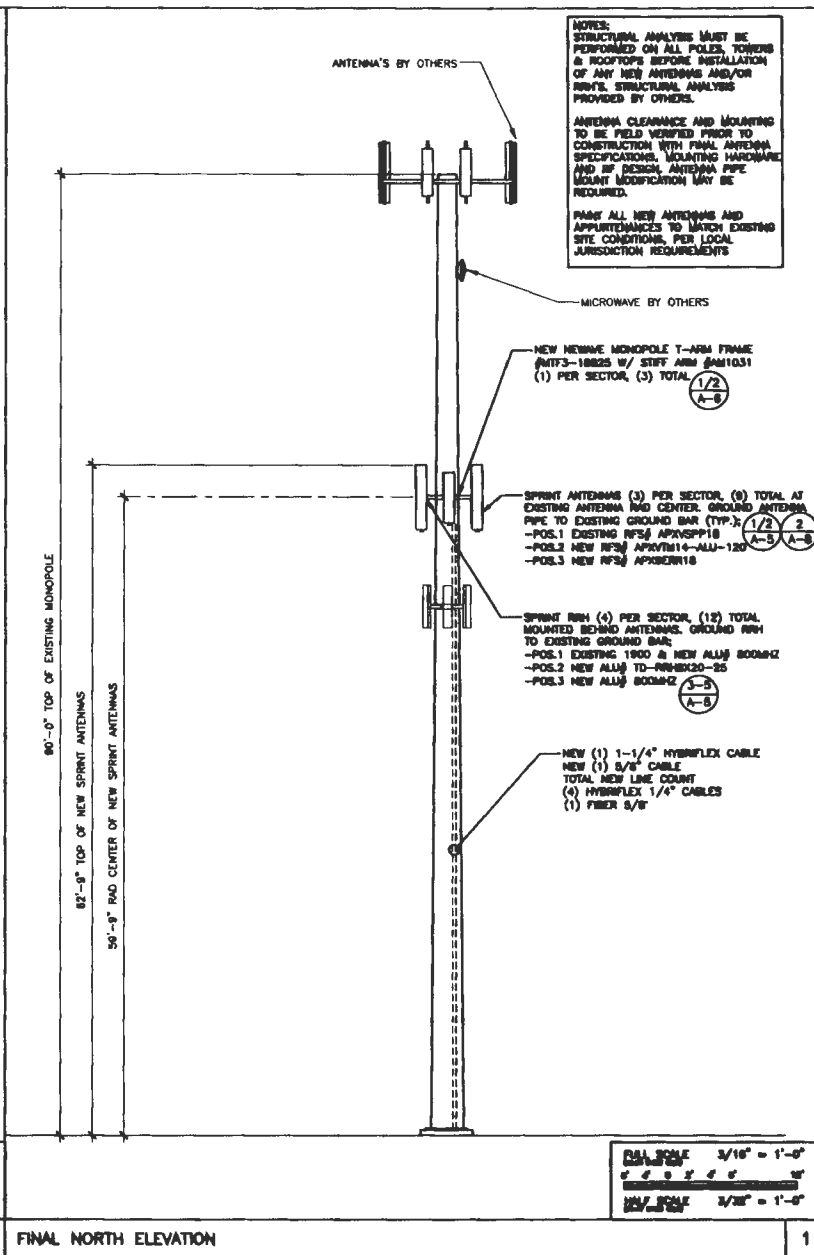
SHEET NUMBER

A-3





EXISTING NORTH ELEVATION



FINAL NORTH ELEVATION

NOTES:  
STRUCTURAL ANALYSIS MUST BE PERFORMED ON ALL POLES, TOWERS & ROOFTOPS BEFORE INSTALLATION OF ANY NEW ANTENNAS AND/OR RWH'S. STRUCTURAL ANALYSIS PROVIDED BY OTHERS.  
ANTENNA CLEARANCE AND MOUNTING TO BE FIELD VERIFIED PRIOR TO CONSTRUCTION WITH FINAL ANTENNA SPECIFICATIONS. MOUNTING HARDWARE AND IF DESIGN ANTENNA PIPE MOUNT MODIFICATION MAY BE REQUIRED.  
PLACE ALL NEW ANTENNAS AND APPURTENANCES TO MATCH EXISTING SITE CONDITIONS, PER LOCAL JURISDICTION REQUIREMENTS

PLANS PREPARED FOR

**Sprint**  
Together with Nextel.

CONSULTANT

**smartlink**  
8002 E VIA DE VERDURA, SUITE 220  
SCOTTSDALE, AZ 85260

ENGINEER OF RECORD

**WYCO**  
**FIELD SERVICES**  
Where quality still counts.  
2227 W PEDON RD, SUITE 4  
CHANDLER, AZ 85224

PRELIMINARY NOT FOR CONSTRUCTION OR RECORDATION

NO.	DATE	DESCRIPTION	BY
A	09/18/17	SOE CTS	JB
B	10/23/17	CLIENT COMMENTS	APR
C	11/13/17	CLIENT COMMENTS	CE

PROJECT INFORMATION

**TUC NORWEST**  
PH04XC034-E

7200 N. SHANNON RD  
TUCSON, AZ 85741

SHEET TITLE

EXISTING/FINAL ELEVATION

SHEET NUMBER

**A-4**

# STRUCTURAL MODIFICATION DRAWINGS

SITE NAME

## SPRINT PH04XC034E TUC NORWEST

PROJECT SITE ADDRESS

7300 N. SHANNON RD.  
TUCSON, AZ 85741  
(PIMA COUNTY)



ISE JOB # 12657

SPRINT PH04XC034E TUC NORWEST  
90' MONOPOLE COMMUNICATIONS STRUCTURE  
POLE MODIFICATION

### MODIFICATION PROVISIONS

THE MODIFICATIONS DEPICTED ON THESE DRAWINGS ARE BASED ON THE RECOMMENDATIONS OUTLINED IN THE STRUCTURAL MODIFICATIONS ANALYSIS REPORT COMPLETED BY ISE INC. JOB #12657 DATED: NOVEMBER 30, 2017. (REV 0). THIS REPORT IS BASED ON THE SPECIFIC ANTENNA LOADING AND COAX CONFIGURATION. SEE REPORT FOR THE ANTENNA AND COAX LOADING INFORMATION. ANY OTHER ANTENNA OR COAX CONFIGURATION REQUIRES REVIEW BY ISE INC. SATISFACTORY COMPLETION OF THE MODIFICATIONS INDICATED ON THESE DRAWINGS WILL RESULT IN THE STRUCTURE MEETING THE REQUIREMENTS OF THE SPECIFICATIONS UNDER WHICH THE STRUCTURAL WAS COMPLETED.

### INDEX OF SHEETS

NUMBER	TITLE	REV
T1		
N1	MODIFICATION PROVISIONS LIST AND NOTES	0
N2		
S1	POLE MODIFICATION DETAILS	0

### PROJECT TEAM

#### PROJECT CONTACT:

NAME: SMARTLINK LLC.  
ADDRESS: 8502 E. VIA DE VENTURA, SUITE 220  
CITY, STATE, ZIP: SCOTTSDALE, AZ 85208  
PHONE: 480-208-9880

#### TOWER MANUFACTURER:

NAME: PROO  
ADDRESS: N/A  
CITY, STATE, ZIP: PLYMOUTH, IN  
PHONE: 877-807-4783

#### STRUCTURAL ENGINEER:

NAME: ISE INCORPORATED  
ADDRESS: PO BOX 80039  
CITY, STATE, ZIP: PHOENIX, AZ 85079  
PHONE: 602-408-9814

#### GEOTECHNICAL ENGINEER:

NAME: WESTERN TECHNOLOGIES, INC.  
ADDRESS: N/A  
CITY, STATE, ZIP: N/A  
PHONE: N/A

### REFERENCED DOCUMENTS

DOCUMENT	REMARKS	DATE
Wyco	Sprint DO Micro ODs	October 23, 2017
DES TEK	Structural Analysis (Job No. 010120131)	July 11, 2013
Proo	Pole & Foundation Drawings	October 7, 1982

CONTRACTOR SHALL FIELD VERIFY ALL: DRAWINGS, QUANTITIES, PART NUMBERS AND COAX / ANTENNA PLACEMENTS PRIOR TO: BIDDING, ORDERING MATERIALS, AND CONSTRUCTION.

SITE ADDRESS: 7300 N. Shannon Rd  
Tucson, AZ 85741



PROJECT NUMBER	PROJECT DATE
SHEET NUMBER	TOTAL SHEETS
T1	0
DRAWING DATE	
November 30, 2017	

# MODIFICATION INSPECTION NOTES:

MODIFICATION CHECKLIST	
CONSTRUCTION/INSTALLATION INSPECTIONS AND TESTING REQUIRED (COMPLETED BY GC)	REPORT ITEM
<b>PRE-CONSTRUCTION</b>	
X	MODIFICATION INSPECTION CHECKLIST DRAWING
	ENGINEER OF RECORD APPROVED SHOP DRAWINGS
	FABRICATION INSPECTION
	FABRICATOR CERTIFIED WELD INSPECTION
	MATERIAL REPORT
	FABRICATOR NDE INSPECTION
X	NDE REPORT OF MONOPOLE PLATE (AS REQUIRED)
N/A	PACKING SLIPS
<b>CONSTRUCTION</b>	
X	CONSTRUCTION INSPECTIONS
	FOUNDATION INSPECTIONS
	CONCRETE COMP. STRENGTH AND SLUMP TESTS
	POST INSTALLED ANCHOR ROD VERIFICATION - EPOXY OR GROUT
X	BASE PLATE GROUT VERIFICATION
X	CONTRACTOR'S CERTIFIED WELD INSPECTION
	EARTH WORK LIFT AND DENSITY
	ON-SITE COLD GALVANIZING VERIFICATION
	GUY TENSION REPORT
	G.C. AS-BUILT DOCUMENTS
<b>POST-CONSTRUCTION</b>	
X	AS-BUILT RECORD DOCUMENTS (STAMPED)
	POST INSTALLED ANCHOR ROD / BOLT PULL-OUT TESTING
X	PHOTOGRAPHS: COMPLETED PROJECT
X	POST-MODIFICATION REPORT

NOTE: (X) DENOTES A DOCUMENT NEEDED  
(N/A) DENOTES A DOCUMENT THAT IS NOT NEEDED

## GENERAL

THE MODIFICATION INSPECTIONS (MI) IS A VISUAL INSPECTION OF TOWER MODIFICATIONS AND REVIEW OF CONSTRUCTION INSPECTIONS AND OTHER REPORTS TO ENSURE THE INSTALLATION WAS CONSTRUCTED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS, NAMELY THE MODIFICATION DRAWINGS, AS DESIGNED BY THE ENGINEER OF RECORD (EOR).

THE MI IS TO CONFIRM INSTALLATION CONFIGURATION AND WORKMANSHIP ONLY AND IS NOT A REVIEW OF THE MODIFICATION DESIGN ITSELF, NOR DOES THE MI INSPECTOR TAKE OWNERSHIP OF THE MODIFICATION DESIGN. OWNERSHIP OF THE STRUCTURAL MODIFICATION DESIGN EFFECTIVENESS AND INTEGRITY REMAINS WITH THE EOR AT ALL TIMES.

ALL MIs SHALL BE CONDUCTED BY AN OWNER APPROVED ENGINEER OR INSPECTOR THAT IS APPROVED TO PERFORM ELEVATED WORK FOR THE OWNER.

TO ENSURE THAT THE REQUIREMENTS OF THE MI ARE MET, IT IS VITAL THAT THE GENERAL CONTRACTOR (GC) AND THE MI INSPECTOR BEGIN COMMUNICATING AND COORDINATING AS SOON AS A PO IS RECEIVED. IT IS EXPECTED THAT EACH PARTY WILL BE PROACTIVE IN REACHING OUT TO THE PROJECT CONTACT LISTED ON SHEET 11.

## MI INSPECTOR

THE MI INSPECTOR IS REQUIRED TO CONTACT THE GC AS SOON AS RECEIVING A PO FOR MI TO, AT A MINIMUM:

- REVIEW THE REQUIREMENTS OF THE MI CHECKLIST
- WORK WITH GC TO DEVELOP A SCHEDULE TO CONDUCT ON-SITE INSPECTIONS, INCLUDING FOUNDATION INSPECTIONS.

THE MI INSPECTOR IS RESPONSIBLE FOR COLLECTING ALL GENERAL CONTRACTOR (GC) INSPECTION AND TEST REPORTS, REVIEWING THE DOCUMENTS FOR ADHERENCE TO THE CONTRACT DOCUMENTS, CONDUCTING THE IN-FIELD INSPECTIONS, AND SUBMITTING THE MI REPORT TO THE OWNER.

## GENERAL CONTRACTOR

THE GC IS REQUIRED TO CONTACT THE MI INSPECTOR AS SOON AS RECEIVING A PO FOR THE MODIFICATION INSTALLATION OR TOWERING PROJECT TO, AT A MINIMUM:

- REVIEW THE REQUIREMENTS OF THE MI CHECKLIST
- WORK WITH THE MI INSPECTOR TO DEVELOP A SCHEDULE TO CONDUCT ON-SITE INSPECTIONS, INCLUDING FOUNDATION INSPECTIONS.
- BETTER UNDERSTAND ALL INSPECTIONS AND TESTING REQUIREMENTS

THE GC SHALL PERFORM AND RECORD THE TEST AND INSPECTION RESULTS IN ACCORDANCE WITH THE REQUIREMENTS OF THE MI CHECKLIST.

## RECOMMENDATIONS

THE FOLLOWING RECOMMENDATIONS AND SUGGESTIONS ARE OFFERED TO ENHANCE THE EFFICIENCY OF OBTAINING A MI REPORT

- IT IS SUGGESTED THAT THE GC PROVIDE A MINIMUM OF 5 BUSINESS DAYS NOTICE, PREVIOUSLY TO, TO THE MI INSPECTOR AS TO WHEN THE SITE WILL BE READY FOR THE MI TO BE CONDUCTED
- THE GC AND MI INSPECTOR COORDINATE CLOSELY THROUGHOUT THE ENTIRE PROJECT
- WHEN POSSIBLE, IT IS PREFERRED TO HAVE THE GC AND MI INSPECTOR ON-SITE SIMULTANEOUSLY FOR AN GUY WIRE TENSIONING OR RE-TENSIONING OPERATIONS
- IT MAY BE BENEFICIAL TO INSTALL ALL TOWER MODIFICATIONS PRIOR TO CONDUCTING THE FOUNDATION INSPECTIONS TO ALLOW FOUNDATION AND MI INSPECTIONS(S) TO COMMENCE WITH ONE SITE VISIT
- WHEN POSSIBLE, IT IS PREFERRED TO HAVE THE GC AND MI INSPECTOR ON-SITE DURING THE MI TO HAVE ANY DEFICIENCIES CORRECTED DURING THE MIAL. THEREFORE, THE GC MAY CHOOSE TO COORDINATE THE MI CAREFULLY TO ENSURE ALL CONSTRUCTION FACILITIES ARE AT THEIR DISPOSAL WHEN THE MI INSPECTOR IS ON-SITE

## CANCELLATION OR DELAYS IN SCHEDULED MI

IF THE GC AND MI INSPECTOR AGREE TO A DATE ON WHICH THE MI WILL BE CONDUCTED, AND EITHER PARTY CANCELS OR DELAYS, THE OWNER SHALL NOT BE RESPONSIBLE FOR ANY COSTS, FEES, LOSS OF DEPOSITS AND/OR OTHER PENALTIES RELATED TO THE CANCELLATION OR DELAY INCURRED BY EITHER PARTY FOR ANY TIME (E.G. TRAVEL AND LODGING, COSTS OF KEEPING EQUIPMENT ON-SITE, ETC.) IF THE OWNER CONTACTS DIRECTLY FROM A THIRD PARTY. EXCEPTIONS MAY BE MADE IN THE EVENT THAT THE DELAY/CANCELLATION IS CAUSED BY WEATHER OR OTHER CONDITIONS THAT MAY COMPROMISE THE SAFETY OF THE PARTIES INVOLVED.

## CORRECTION OF FAILING MIs

IF THE MODIFICATION INSTALLATION WOULD FAIL THE MI (FAILED MI), THE GC SHALL WORK WITH THE OWNER TO COORDINATE A REMEDIATION PLAN IN ONE OF TWO WAYS:

- CORRECT FAILING ISSUES TO COMPLY WITH THE SPECIFICATIONS CONTAINED IN THE ORIGINAL CONTRACT DOCUMENTS AND COORDINATE A SUPPLEMENT MI
- OR, WITH THE OWNER'S APPROVAL, THE GC MAY WORK WITH THE EOR TO RE-ANALYZE THE MODIFICATION / REINFORCEMENT USING THE AS-BUILT CONDITION.

## MI VERIFICATION INSPECTIONS

THE OWNER RESERVES THE RIGHT TO CONDUCT A MI VERIFICATION INSPECTION TO VERIFY THE ACCURACY AND COMPLETENESS OF PREVIOUSLY COMPLETED MI INSPECTIONS(S).

ALL VERIFICATION INSPECTIONS SHALL BE HELD TO THE SAME SPECIFICATIONS AND REQUIREMENTS IN THE CONTRACT DOCUMENTS.

VERIFICATION INSPECTION MAY BE CONDUCTED BY AN INDEPENDENT INSPECTION FIRM AFTER A MODIFICATION PROJECT IS COMPLETED, AS MARKED BY THE DATE OF AN ACCEPTED "PASSING MI" OR "PASS AS NOTED MI" REPORT FOR THE ORIGINAL PROJECT.

## REQUIRED PHOTOS

BETWEEN THE GC AND THE MI INSPECTOR THE FOLLOWING PHOTOGRAPHS, AT A MINIMUM, ARE TO BE TAKEN AND INCLUDED IN THE MI REPORT:

- PRE-CONSTRUCTION GENERAL SITE CONDITION
- PHOTOGRAPHS DURING THE REINFORCEMENT MODIFICATION CONSTRUCTION / CRECTION AND INSPECTION:
- RAW MATERIALS
- PHOTOS OF ALL CRITICAL DETAILS
- FOUNDATION MODIFICATIONS
- WELD PREPARATION
- SOIL INSTALLATION AND TOWERING
- FINAL INSTALLED CONDITION
- SURFACE COATING REPAIR
- POST CONSTRUCTION PHOTOGRAPHS
- FINAL IN-FIELD CONDITION

PHOTO OF ELEVATED MODIFICATIONS TAKEN FROM THE GROUND SHALL BE CONSIDERED INADEQUATE



ISE JOB # 1287

SPRINT PH04XC034E TUC NORWEST  
90' MONOPOLE COMMUNICATIONS STRUCTURE  
POLE MODIFICATION

7300 N. Shattuck Rd  
Tucson, AZ 85741



PROJECT NO.	
SHEET NUMBER	
N1	0
DRAWING DATE	
November 30, 2017	

**GENERAL NOTES**

1. ALL REFERENCE TO THE OWNER IN THESE DOCUMENTS SHALL BE CONSIDERED SPRINT OR ITS DESIGNATED REPRESENTATIVE.
2. ALL WORK PRESENTED ON THESE DRAWINGS MUST BE COMPLETED BY THE CONTRACTOR UNLESS NOTED OTHERWISE. THE CONTRACTOR MUST HAVE CONSIDERABLE EXPERIENCE IN PERFORMANCE OF WORK SIMILAR TO THAT DESCRIBED HEREIN. BY ACCEPTANCE OF THIS ASSIGNMENT, THE CONTRACTOR IS ATTESTING THAT HE OR SHE HAS SUFFICIENT EXPERIENCE AND ABILITY, THAT HE IS KNOWLEDGEABLE OF THE WORK TO BE PERFORMED AND THAT HE IS PROPERLY LICENSED AND REGISTERED TO DO THIS WORK IN THE APPLICABLE JURISDICTION.
3. WORK SHALL BE COMPLETED IN ACCORDANCE WITH THE INTERNATIONAL BUILDING CODE, 2012 EDITION.
4. UNLESS SHOWN OR NOTED OTHERWISE ON THE CONTRACT DRAWINGS, OR IN THE SPECIFICATIONS, THE FOLLOWING NOTES SHALL APPLY TO THE MATERIALS LISTED HEREIN, AND TO THE PROCEDURES TO BE USED ON THIS PROJECT.
5. ALL HARDWARE ASSEMBLY MANUFACTURER'S INSTRUCTIONS SHALL BE FOLLOWED EXACTLY AND SHALL SUPERSEDE ANY CONFLICTING NOTES ENCLOSED HEREIN.
6. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE ERECTION PROCEDURE AND SEQUENCE TO INSURE THE SAFETY OF THE STRUCTURE AND ITS COMPONENT PARTS DURING ERECTION AND / OR FIELD MODIFICATIONS. THIS INCLUDES, BUT IS NOT LIMITED TO, THE ADDITION OF TEMPORARY BRACING, GUYS OR TIE DOWNS THAT MAY BE NECESSARY. SUCH MATERIAL SHALL BE REMOVED AND SHALL REMAIN THE PROPERTY OF THE CONTRACTOR AFTER THE COMPLETION OF THE PROJECT.
7. ALL DIMENSIONS, ELEVATIONS, AND EXISTING CONDITIONS SHOWN ON THE DRAWINGS SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO BEGINNING ANY MATERIALS ORDERING, FABRICATION OR CONSTRUCTION WORK ON THIS PROJECT. CONTRACTOR SHALL NOT SCALE CONTRACT DRAWINGS IN LIEU OF FIELD VERIFICATIONS. ANY DISCREPANCIES SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE OWNER AND THE OWNER'S ENGINEER. THE DISCREPANCIES MUST BE RESOLVED BEFORE THE CONTRACTOR IS TO PROCEED WITH THE WORK. THE CONTRACTOR DOCUMENTS DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK AND SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES. OBSERVATION VISITS TO THE SITE BY THE OWNER AND / OR ENGINEER SHALL NOT INCLUDE INSPECTION OF THE PROTECTIVE MEASURES OR PROCEDURES.
8. ALL MATERIALS AND EQUIPMENT FURNISHED SHALL BE NEW AND OF GOOD QUALITY, FREE FROM FAULTS AND DEFECTS AND IN CONFORMANCE WITH THE CONTRACT DOCUMENTS. ANY AND ALL SUBSTITUTIONS MUST BE PROPERLY APPROVED AND AUTHORIZED IN WRITING BY THE OWNER AND ENGINEER PRIOR TO INSTALLATION. THE CONTRACTOR SHALL FURNISH SATISFACTORY EVIDENCE AS TO THE KIND AND QUALITY OF THE MATERIALS AND EQUIPMENT BEING SUBSTITUTED.
9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR INITIATING, MAINTAINING AND SUPERVISING ALL SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT THIS PROJECT AND RELATED WORK COMPLIES WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL SAFETY CODES AND REGULATIONS GOVERNING THIS WORK.
10. ACCESS TO THE PROPOSED WORK SITE MAY BE RESTRICTED. THE CONTRACTOR SHALL COORDINATE WITH CONSTRUCTION ACTIVITY, INCLUDING WORK SCHEDULE AND MATERIAL ACCESS, WITH THE RESIDENT LEASING AGENT FOR APPROVAL.
11. ALL PERMITS THAT MUST BE OBTAINED ARE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR WILL BE RESPONSIBLE FOR ABIDING BY ALL CONDITIONS AND REQUIREMENTS OF THE PERMITS.
12. IF APPLICABLE, ALL CONCRETE WORK SHALL COMPLY TO LOCAL CODES AND THE ACI 318, "BUILDING REQUIREMENTS FOR STRUCTURAL CONCRETE".
13. 24 HOURS PRIOR TO THE BEGINNING OF ANY CONSTRUCTION, THE CONTRACTOR MUST NOTIFY THE APPLICABLE JURISDICTIONAL (STATE, COUNTY OR CITY) ENGINEER.
14. ALL TOWER DIMENSIONS SHALL BE VERIFIED WITH THE PLANS (LATEST REVISION) PRIOR TO COMMENCING CONSTRUCTION. NOTIFY THE ENGINEER IMMEDIATELY IF ANY DISCREPANCIES ARE DISCOVERED. THE OWNER SHALL HAVE A SET OF APPROVED PLANS AVAILABLE AT THE SITE AT ALL TIMES WHILE WORK IS BEING PERFORMED. A DESIGNATED RESPONSIBLE EMPLOYEE SHALL BE AVAILABLE FOR CONTACT BY GOVERNING AGENCY INSPECTORS.

**WELDING NOTES**

1. CONTRACTOR IS RESPONSIBLE FOR COMMISSIONING A CERTIFIED WELD INSPECTOR (CWI) THROUGHOUT THE ENTIRETY OF THE PROJECT. A PASSING CWI REPORT SHALL BE PROVIDED TO THE ENGINEER UPON COMPLETION OF THE PROJECT.
2. WELDING CERTIFICATES MUST BE PROVIDED TO CWI AND CSI PRIOR TO WELDING. CONTRACTOR IS CHARGED WITH WORK ON SITE. CERTIFICATE WILL BE ASSESSED FOR AS PART OF INSPECTION PROCEEDINGS. ALL WELDING SHOULD BE PERFORMED BY AN AWS QUALIFIED WELDER WHO HAS EXPERIENCE WITH GALVANIZED SURFACES AND IN ACCORDANCE WITH AWS A5.9 (D1) AND AWS 2.49.1 OR LATEST EDITIONS.
3. COX FUEL GAS WELDING OR BRAZING IS STRICTLY PROHIBITED. SPECIFICALLY, NO TORCH CUTTING IS PERMITTED ON SITE. ALL HOLES SHALL BE CUT WITH A GRINDER.
4. INSTALL 3000 (NFPA 701) FIRE RATED FIRE PROTECTIVE COAT AROUND ALL COAT.
5. MORE SPATTER AND SPARKS SHALL BE ANTICIPATED GIVEN THE PREVIOUSLY GALVANIZED SURFACE.
6. COAX IS FLAMMABLE AND CAN CATCH FIRE IF PROPER PRE CAUTIONS ARE NOT MADE. TO SHIELD COAX FROM ALL WELDING PROCEDURES, ALL COAX SHALL BE SHIELDED AT AND BELOW EACH WELDING PROCEDURE AND ELEVATION. IN ADDITION, COAX SHALL BE PUSHED AWAY FROM TOWER FACE WHEN WELDING IS BEING PERFORMED.
7. CONTRACTOR SHALL EXERCISE CAUTION WHEN WELDING ON A GALVANIZED SURFACE IF THE WELD MATERIAL IS CONTAMINATED WITH ZINC IT DOES NOT PROVIDE A STRUCTURAL WELD.
8. FUME CREATED FROM WELDING ON A PREVIOUSLY GALVANIZED SURFACE CAN BE IRRITATING.
9. PRIOR TO WELDING, ALL SURFACES SHALL BE PROPERLY GROUND TO REMOVE GALVANIZING.
10. ALL FIELD WELDS SHALL BE TOUCHED UP WITH A GALVANIZING PAINT REPAIR (ZINC OR APPROVED EQUIVALENT).
11. WATER SHALL BE ON SITE OF ADEQUATE AMOUNT, AND AVAILABLE AT ALL TIMES DURING WELDING ACTIVITY. A MINIMUM OF 500 GAL. OF WATER SHALL BE PROVIDED. WATER SHALL BE CAPABLE OF REACHING HEIGHT WHERE WELDING IS BEING PERFORMED. IN ADDITION, A MINIMUM OF 500 (5 TO 10) LB. CLASS ABC MULTIPURPOSE FIRE EXTINGUISHERS FULLY CHARGED AND CAPABLE OF DISCHARGE WITHIN 30 SECONDS OF DETECTING A FIRE SHALL BE PROVIDED. FIRE EXTINGUISHERS SHALL BE STRATEGICALLY LOCATED AROUND COMPOUND AND IN THE AREA OF THE MOUNTAIN WHERE WELDING IS BEING PERFORMED.
12. CLEAN OUT ALL DEBRIS THROUGHOUT WORKAREA AND WORKAREA MUST REMAIN TO WELDING.

**BOLT TIGHTENING PROCEDURE**

1. TIGHTEN CONNECTION BOLTS BY ASC - TURN OF THE NUT METHOD, USING THE CHART BELOW.

BOLT LENGTH UP TO AND INCLUDING FOUR DIA.

3/8"	BOLTS UP TO AND INCLUDING 2.0 INCH LENGTH	+ 1/2 TURN BEYOND SMOG TIGHT
1/2"	BOLTS UP TO AND INCLUDING 2.5 INCH LENGTH	+ 1/3 TURN BEYOND SMOG TIGHT
3/4"	BOLTS UP TO AND INCLUDING 3.0 INCH LENGTH	+ 1/2 TURN BEYOND SMOG TIGHT
1"	BOLTS UP TO AND INCLUDING 3.5 INCH LENGTH	+ 1/3 TURN BEYOND SMOG TIGHT
1 1/4"	BOLTS UP TO AND INCLUDING 4.0 INCH LENGTH	+ 1/2 TURN BEYOND SMOG TIGHT

BOLT LENGTH OVER FOUR DIA. BUT NOT EXCEEDING FIGHT DIA.

3/8"	BOLTS 2.75 TO 4.0 INCH LENGTH	+ 1/2 TURN BEYOND SMOG TIGHT
1/2"	BOLTS 2.75 TO 5.0 INCH LENGTH	+ 1/2 TURN BEYOND SMOG TIGHT
3/4"	BOLTS 3.25 TO 6.0 INCH LENGTH	+ 1/2 TURN BEYOND SMOG TIGHT
1"	BOLTS 3.75 TO 7.0 INCH LENGTH	+ 1/2 TURN BEYOND SMOG TIGHT
1 1/4"	BOLTS 4.25 TO 8.0 INCH LENGTH	+ 1/2 TURN BEYOND SMOG TIGHT

2. CONNECTION BOLTS SUBJECT TO DIRECT TENSION SHALL BE INSTALLED AND TIGHTENED AS PER SECTION 8.2.1 OF THE AISC SPECIFICATION FOR STRUCTURAL JOINTS USING A325 GALVANIZED BOLTS, LOCATED IN THE AISC MANUAL OF STEEL CONSTRUCTION THE INSTALLATION PROCEDURE IS PARAPHRASED AS FOLLOWS:

3. FASTENERS SHALL BE INSTALLED IN PROPERLY ALIGNED HOLES AND TIGHTENED BY ONE OF THE METHODS DESCRIBED IN SUBSECTION 8.2.1 THROUGH 8.2.4.

**8.2.1 TURN-OF-THE-NUT TIGHTENING**

BOLTS SHALL BE INSTALLED IN ALL HOLES OF THE CONNECTION AND BROUGHT TO A SMOG TIGHT CONDITION AS DEFINED IN SECTION 8.1, UNTIL ALL THE BOLTS ARE SUBSTANTIALLY SMOG TIGHT AND THE CONNECTION IS FULLY COMPACTED. FOLLOWING THIS INITIAL OPERATION ALL BOLTS IN THE CONNECTION SHALL BE TIGHTENED FURTHER BY THE APPLICABLE AMOUNT OF ROTATION SPECIFIED ABOVE. DURING THE TIGHTENING OPERATION THERE SHALL BE NO ROTATION OF THE NUT. THE TURNING OF THE WRENCH, TIGHTENING SHALL PROGRESS SYSTEMATICALLY FROM THE MOST HEAVY PART OF THE JOINT IN A MANNER THAT WILL MINIMIZE RELAXATION OF PREVIOUSLY TIGHTENED BOLTS.

4. ALL OTHER BOLTED CONNECTIONS SHALL BE BROUGHT TO A SMOG TIGHT CONDITION AS DEFINED IN SECTION 8.1 OF THE SPECIFICATION.

**STRUCTURAL STEEL NOTES**

1. THE FABRICATION AND ERECTION OF STRUCTURAL STEEL SHALL CONFORM TO THE AISC SPECIFICATION FOR MANUAL OF STEEL CONSTRUCTION, LOAD AND RESISTANCE FACTOR DESIGN, 13th EDITION.

2. UNLESS OTHERWISE NOTED, ALL STRUCTURAL ELEMENTS SHALL CONFORM TO THE FOLLOWING REQUIREMENTS:

**STRUCTURAL STEEL:**

- ANGLE: ASTM A36
- PIPE/TUBE: A53 GR. B (1/2" - 48 INCH)
- PLATE: ASTM A36 (GRUSSE PLATES)
- PLATE: ASTM A572-65 (MONOPOLE)
- BOLTS:

- A. BOLTS, ASTM A325 TYPE 1 GALVANIZED HIGH STRENGTH BOLTS UNOS
- B. ALL ANCHOR BOLTS ASTM F1554-55
- C. ALL 1/2" BOLTS, ASTM A153 GRADE B7
- D. ALL NUTS, ASTM A563 CARBON AND ALLOY STEEL NUTS.
- E. ALL WASHERS, ASTM F436 HARDENED STEEL WASHERS.

3. HOLES SHALL NOT BE FLAME CUT THRU STEEL UNLESS APPROVED BY THE ENGINEER.
4. HOT TOP GALVANIZE ALL ITEMS UNLESS OTHERWISE NOTED, AFTER FABRICATION WHERE PRACTICABLE. GALVANIZING: ASTM A123, ASTM A153/A153M OR ASTM A653, C90, AS APPLICABLE.
5. REPAIR DAMAGED SURFACES WITH GALVANIZING METHOD AND PAINT CONFORMING TO ASTM A700 OR BY APPLICATION OF STICK OR THICK PASTED MATERIAL SPECIFICALLY DESIGNED FOR REPAIR OF GALVANIZING. CLEAN AREAS TO BE REPAIRED AND REMOVE SLAG FROM WELDS. HEAT SURFACES TO WHICH STICK OR PASTE MATERIAL IS APPLIED, WITH A TORCH TO A TEMPERATURE SUFFICIENT TO MELT THE METALLIC IN STICK OR PASTE; SPREAD MOLTEN MATERIAL UNIFORMLY OVER SURFACES TO BE COATED AND WIPE OFF EXCESS MATERIAL.
6. ALL PROPOSED AND / OR REPLACED BOLTS SHALL BE OF SUFFICIENT LENGTH SUCH THAT THE END OF THE BOLT BE AT LEAST FLUSH WITH THE FACE OF THE NUT. IT IS NOT PERMITTED FOR THE BOLT END TO BE BELOW THE FACE OF THE NUT AFTER TIGHTENING IS COMPLETED.

**FABRICATION:**

ALL NEW MATERIAL INCLUDING STRUCTURAL STEEL AND FASTENERS SHALL BE HOT DIPPED GALVANIZED AFTER FABRICATION IN ACCORDANCE WITH ASTM A123 AND A153. WELDING SHALL MEET AWS A5.9 (D1) STRUCTURAL WELDING CODE (LATEST REVISION). TECHNICIANS SHALL BE AWS CERTIFIED FOR TYPE AND POSITION. ELECTRODES SHALL BE E70XX.

**MODIFICATIONS:**

CONTRACTOR SHALL VISIT SITE TO CHECK CRITICAL DIMENSIONS AND IDENTIFY ANY UNKNOWN AND/OR UNIDENTIFIED CONDITIONS PRIOR TO STEEL FABRICATION.

INSTALL NEW CARRIER EQUIPMENT ONLY AFTER ALL WORK AND INSPECTIONS ARE COMPLETED.

PROVIDE SPECIAL INSPECTIONS FOR THE FOLLOWING PER AISC 2012 SECTION 17.04:

STEEL CONSTRUCTION  
WELDING  
POST INSTALLED ANCHOR RODS

SPECIAL INSPECTION IS TO BE PROVIDED IN ADDITION TO THE INSPECTIONS CONDUCTED BY THE JURISDICTION BUILDING SAFETY DEPARTMENT AND SHALL NOT RELIEVE THE OWNER ON THEIR AUTHORIZED AGENT FROM REQUESTING THE PERIODIC AND CALLED INSPECTIONS REQUIRED BY LOCAL ORDINANCES OR CODE.

PULL TESTING - PULL TEST (4) NEW EPOXY SET BOLTS TO 120 KIPS, HOLD 30 SECONDS, RECORD DEFLECTIONS @ 20 KIP INCREMENTS



**SPRINT PH04XC034E TUC NORWEST  
90' MONOPOLE COMMUNICATIONS STRUCTURE  
POLE MODIFICATION**

7300 N. Shavano Rd  
Tucson, AZ 85741



PROJECT NO.	
DATE	
SCALE	AS SHOWN
SHEET NO.	N2
TOTAL SHEETS	0
DRAWING DATE	November 30, 2017

NO SCALE:  
DO NOT SCALE DRAWING



SE JOB # 12657

SPRINT PH04XC034E TUC NORWEST  
90' MONOPOLE COMMUNICATIONS STRUCTURE  
POLE MODIFICATION

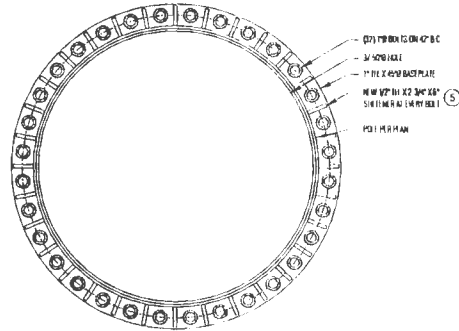
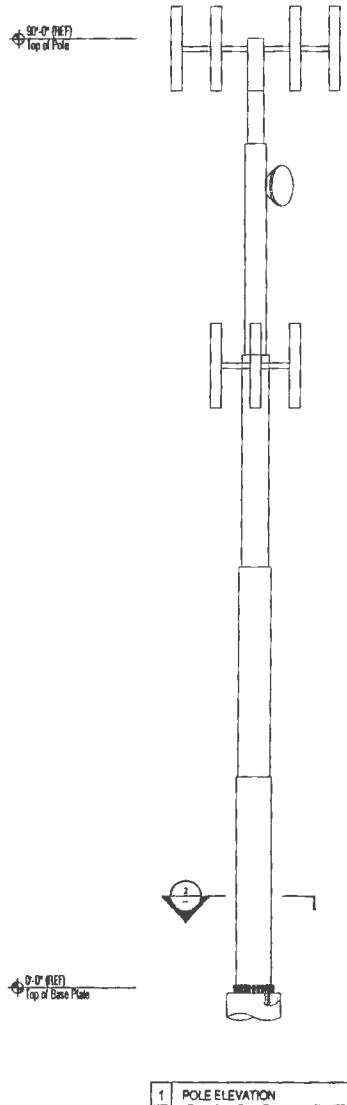
7300 W. Shannon Rd  
Phoenix, AZ 85041



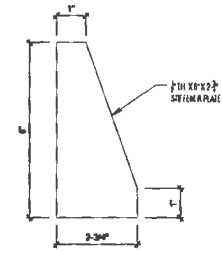
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CHECKED BY: [Signature]

SHEET NUMBER: **S1** OF **0**

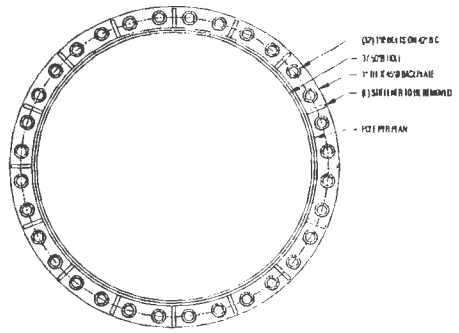
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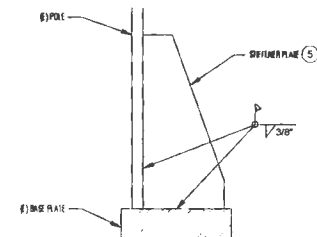
3 PROPOSED BASEPLATE ASSEMBLY



5 NEW STIFFENER DETAIL (TYP OF 32)



2 EXISTING BASEPLATE ASSEMBLY



4 STIFFENER ASSEMBLY DETAIL