



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

Award Contract Grant

Requested Board Meeting Date: July 11, 2017

** = Mandatory, information must be provided*

or Procurement Director Award

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

Verizon Wireless (VAW) LLC

***Project Title/Description:**

Site Specific Agreement #5 for Wireless Communications Facilities; Lic-0256; Supervisor District 5

***Purpose:**

The Master Agreement between Pima County and Verizon Wireless, LLC (Verizon) establishing conditions and terms under which Verizon may continue to install, operate, and maintain wireless communications facilities within unincorporated County right-of-way was executed by this Board on August 11, 2015, [CTN-IT-15-0107] with a retroactive Effective Date of June 1, 2015. Specific Site Agreements (SSA's) stipulate conditions for each site authorized for use under the Master Agreement. This Board has previously approved four (4) SSA's with Verizon under the auspices of the referenced Master Agreement. Verizon and County now wish to enter into a new SSA under the auspices of the same Master Agreement for a new location. SSA #5 is for the TUC_IRONWOOD HILL site at 2955 West Ironwood Hills Drive (co-location on replacement Tucson Electric Power pole). Requisite public notice was provided pursuant to ARS Section 40-283(E).

***Procurement Method:**

D 29.4.XI.H. "Other Non-Procurement Contracts"

***Program Goals/Predicted Outcomes:**

To stipulate the conditions and terms under which Verizon may install, operate and maintain wireless communications facilities in the County right-of-way. This Site Specific Agreement identifies the location and address and has its own fee structure and particular use of the subject site.

***Public Benefit:**

To provide cell service to Verizon customers in unincorporated Pima County.

***Metrics Available to Measure Performance:**

Verizon to provide certificate of insurance as stipulated in policy; pay annual fees as stipulated in Site Specific Agreements; obtain permits as required; comply with highway safety and construction standards; exercise care and restore County roadways or facilities as warranted; provide written notice of change to use of facility.

***Retroactive:**

No.

*To: CoB. 6.22.17 (2)
pgs. - 14*

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: IT Contract Number (i.e.,15-123): 15-0107

Amendment No.: 5 AMS Version No.: 5

Effective Date: 7/11/2017 New Termination Date: 05/31/2020

Prior Contract No. (Synergen/CMS): _____

Expense or Revenue Increase Decrease Amount This Amendment: \$ 33,101.25

Is there revenue included? Yes No If Yes \$ 33,101.25

***Funding Source(s) required:** Verizon Wireless (VAW) LLC

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

Telephone: 520-624-6667

Department Director Signature/Date: [Signature] 6/20/17

Deputy County Administrator Signature/Date: [Signature] 6/20/17

County Administrator Signature/Date: [Signature] 6/20/17
(Required for Board Agenda/Addendum Items)

**SITE-SPECIFIC SUPPLEMENTAL AGREEMENT #5
TO MASTER AGREEMENT
RIGHT-OF-WAY USE LICENSE
FOR WIRELESS COMMUNICATIONS FACILITIES**

This Site-Specific Supplemental Agreement is made by and between Pima County, a political subdivision of the State of Arizona (“Licensor”) and Verizon Wireless (VAW) LLC, a Delaware limited liability company, dba Verizon Wireless (“Licensee”), referred to collectively as the “Parties”, pursuant and subject to the Master Agreement Right of Way Use License for Wireless Communications Facilities entered into by the Parties effective June 1, 2015 (CTN-IT-15*107).

RIGHT-OF-WAY LOCATION/ ADDRESS

2955 West Ironwood Hill Drive
Site Name: TUC IRONWOOD HILL

DESCRIPTION OF WIRELESS COMMUNICATIONS FACILITIES

Installation and operation of antennas/associated equipment for wireless telecom network operation within a 208 square foot compound: new utility pole provided by TEP; add 9 new antennas (3 per sector; 3 sectors); 9 remote radio heads; 3 junction boxes; coax cables; concrete masonry unit screen wall; 3 outdoor equipment cabinets on new concrete slab (See, Exhibit A).

LICENSE FEE SCHEDULE

Application Fee \$ 2,600.00 (Paid)

Annual Payment due on June 1st of each year

06/01/2015-05/31/2016	\$	0.00 – Not Applicable
06/01/2016-05/31/2017	\$	0.00 – Not Applicable
06/01/2017-05/31/2018	\$	10,500.00– Pro Rata Upon Execution
06/01/2018-05/31/2019	\$	11,025.00
06/01/2019-05/31/2020	\$	11,576.25

Verizon SSA #5
2955 West Ironwood Hill Drive
TUC IRONWOOD HILL (co-location)

IN WITNESS WHEREOF, the Parties have affixed their signatures to this Site-Specific Supplemental Agreement on the dates written below.

PIMA COUNTY:

LICENSEE:

Chair, Board of Supervisors

Verizon Wireless (VAW) LLC,
A Delaware Limited Liability Company
d/b/a Verizon Wireless

Date

By: 

Name: **Gary Bailey**

Title:

Director-Network Field Engineering

Date: 6/1/17

ATTEST:

Clerk, Board of Supervisors

Date

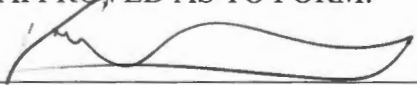
APPROVED AS TO CONTENT:



Jesse Rodriguez, IT Chief Information Officer

4/12/17
Date

APPROVED AS TO FORM:



Tobin Rosen, Deputy County Attorney

4/12/17
Date



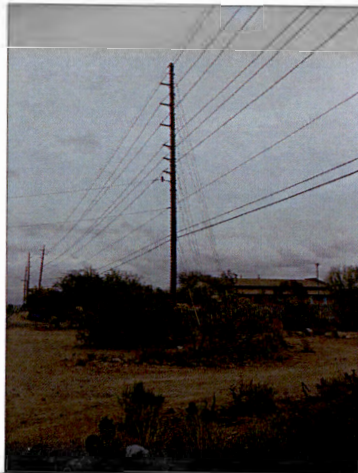
SITE NAME: TUC_IRONWOOD HILL
2955 W. IRONWOOD HILL DRIVE

Exhibit "A"

ELECTRICAL ENGINEER
VAN BOERUM & FRANK ASSOC. INC.
1822 S. PRIEST DRIVE, #103
TEMPE, ARIZONA, 85281
PHONE: (602) 889-5075
FAX: (480) 889-5076
CONTACT: BARRY HULET

SITE ACQUISITION
PINNACLE CONSULTING
1426 N. MARVIN STREET
GILBERT, ARIZONA, 85233
PHONE: (480) 854-9588, X. 234
CONTACT: ERIC HURLLEY

SITE PHOTO:



ARCHITECT

YOUNG DESIGN CORP.
10245 E. VIA LINDA, #211
SCOTTSDALE, ARIZONA, 85258
PHONE: (480) 451-9809
FAX: (480) 451-9808
CONTACT: MATTHEW YOUNG

SURVEYOR

RLF CONSULTING, LLC
1214 N. STADEM DRIVE
TEMPE, ARIZONA, 85281
PHONE: (480) 510-3668
FAX: (480) 445-9185
CONTACT: RYAN PIDLER

TOWER OWNER

TUCSON ELECTRIC POWER (T.E.P.)
PO BOX 711
TUCSON, ARIZONA, 85702
PHONE: (520) 884-9021
CONTACT: DANNY MADRIL

PROPERTY OWNER

PIMA COUNTY (R.O.W.)
201 N. STONE AVENUE
TUCSON, ARIZONA, 85701
PHONE: (520) 724-0505
CONTACT: STEVEN REUTER

LESSEE / COMPANY

VERIZON WIRELESS
126 W. GEMINI DRIVE
TEMPE, ARIZONA, 85283
PHONE: (602) 350-9444
CONTACT: RICK MIRANDA

VICINITY MAP



SITE COORDINATES:

LATITUDE : 32° 15' 02.146" N
LONGITUDE : 111° 01' 48.243" W
ELEVATION : 2454' A.M.S.L.



DRIVING DIRECTIONS:

FROM TEMPE OFFICE, TAKE WESTBOUND US-60, THEN MERGE ONTO EASTBOUND I-10 TO TUCSON, TAKE EXIT 256 FOR GRANT ROAD & TURN RIGHT (WEST) PROCEED ON GRANT ROAD (BECOMES IRONWOOD HILL DRIVE), SITE IS ON THE SOUTH SIDE OF THE ROAD APPROXIMATELY 2.25 MILES WEST OF I-10

CODE COMPLIANCE:

ALL WORK AND MATERIALS SHALL BE PERFORMED AND INSTALLED IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE CODES AS ADAPTED BY THE LOCAL GOVERNING AUTHORITIES.

BUILDING CODE	: 2012	IBC
MECHANICAL CODE	: 2012	IMC
PLUMBING CODE	: 2012	IPC
ELECTRIC CODE	: 2011	NEC
FIRE CODE	: 2012	IFC

CODE SUMMARY	NEW
OCCUPANT GROUP	S2
CONSTRUCTION TYPE	III-B
ALLOWABLE AREA	
BUILDING AREA	N/A
TOTAL BUILDING AREA	
OCCUPANCY LOAD	0

SPECIAL INSPECTIONS REQUIRED:

CONCRETE REINFORCING : YES
BOLTS IN CONCRETE : YES

FIRE DEPARTMENT NOTES:

PROVIDE A PORTABLE FIRE EXTINGUISHER WITH A RATING NOT LESS THAN 2A-10BC.

PROVIDE STREET ADDRESS IDENTIFICATION PER MUNICIPAL REQUIREMENTS.

PROVIDE AND INSTALL FIRE DEPARTMENT APPROVED "KNOX BOX" PER DEPARTMENT REQUIREMENTS.



CALL BEFORE YOU DIG!
ARIZONA LAW REQUIRES
2 WORKING DAYS NOTICE FOR
CONSTRUCTION PHASE
STOP CALL
ARIZONA BLUE STAKE, INC.
(800) STAKE-IT

ZONING COMPLIANCE:

LOCAL JURISDICTION : PIMA COUNTY
ASSESSORS PARCEL : N/A (R.O.W.)
ZONING : CR-2
USE : TELECOMMUNICATION FACILITY
PARENT PARCEL AREA : N/A (R.O.W.)
NEW LEASE AREA : 208 S.F.
PARKING REQ'D : 1
PARKING PROVIDED : 1

GENERAL COMPLIANCE:

HVAC USED ON THIS STRUCTURE IS NOT INTENDED FOR HUMAN COMFORT ITS USE IS SOLELY FOR ELECTRONIC EQUIPMENT COOLING.

DEVELOPMENT AND USE OF THIS SITE WILL CONFORM TO ALL APPLICABLE CODES AND ORDINANCES.

PROVIDE STREET ADDRESS IDENTIFICATION PER MUNICIPAL REQUIREMENTS.

THE USE OF THIS SITE WILL GENERATE NO TRASH. THIS PROJECT DOES NOT REQUIRE WATER OR SEWER, & NO PLUMBING WORK WILL OCCUR AS PART OF THIS PROJECT.

MECHANICAL (HVAC) IS INSTALLED BY CABINET SUPPLIER AND IS USED FOR EQUIPMENT COOLING ONLY. THIS PROJECT REQUIRES PERMANENT POWER & TELEPHONE CONNECTION.

A.D.A. COMPLIANCE:

FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION. LANDINGS AND EXITS SHALL COMPLY WITH THE APPLICABLE BUILDING CODE.

F.C.C. COMPLIANCE:

ALL NEW ANTENNAS SHALL BE IN COMPLIANCE WITH ALL FEDERAL COMMUNICATIONS COMMISSION (FCC) REGULATIONS, INCLUDING THOSE PROTECTING THE PUBLIC HEALTH AND THOSE PROTECTING HISTORIC DISTRICTS.

PROJECT DESCRIPTION:

THE PROJECT CONSISTS OF THE INSTALLATION AND OPERATION OF ANTENNAS AND ASSOCIATED EQUIPMENT FOR COMPANY'S WIRELESS TELECOMMUNICATIONS NETWORK. FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION.

THIS FACILITY CONSISTS OF UL-LISTED PRE-FAB EQUIPMENT CABINETS, TO HOUSE RADIO EQUIPMENT. NO HAZARDOUS MATERIAL WILL BE STORED WITHIN THE FACILITY.

ALL EXITS SHALL BE OPENABLE FROM THE INSIDE WITHOUT THE USE OF KEYS OR SPECIAL KNOWLEDGE. MANUALLY OPERATED EDGE OR SURFACE MOUNTED FLUSH BOLTS ARE PROHIBITED.

NEW ANTENNAS AND ASSOCIATED CABLES
NEW ELECTRICAL SERVICE
NEW PREFABRICATED EQUIPMENT CABINETS
NEW SCREEN WALL (TO MATCH ADJACENT CHURCH)
NEW REPLACEMENT UTILITY POLE

SHEET INDEX:

T-1	TITLE SHEET, PROJECT INFO
T-2	GENERAL NOTES
LS-1	SURVEY DETAIL
A-1	OVERALL SITE PLAN
A1.1	SITE PLAN
A-2	ENLARGED SITE PLAN
A-3	SITE ELEVATION
A-4	SITE ELEVATION
A-5	SITE DETAILS
E-1	GENERAL ELECTRICAL NOTES
E-2	POWER PLAN
E-3	GROUNDING PLAN, ONE-LINE, CALCS

CLIENT		
verizon 126 W. GEMINI DR. TEMPE, AZ 85283		
INTERNAL REVIEW	DATE	
CONSTRUCTION SIGNATURE		
RF SIGNATURE		
FACILITIES SIGNATURE		
REAL ESTATE SIGNATURE		
PLANS PREPARED BY		
Young design corp		
architecture / project management 10245 E. Via Linda, Scottsdale, AZ 85258 ph: 480 451 9609 fax: 480 451 9808 a map corporate@ydcoffice.com		
SEAL This drawing is copyrighted and the property of Young Design Corporation (YDC) as produced solely by YDC and affiliates. reproduction or use of this drawing and/or the information contained herein is forbidden without written permission by Young Design Corporation.		
THE DOCUMENT CONTAINS AN ELECTRONIC SIGNATURE. PURSUANT TO A.R.S. 16-101, IT IS A VALID SIGNATURE AND PERSON. ANYONE WHOSE SIGNATURE APPEARS ON THIS DOCUMENT IS DEEMED TO ACCEPT THIS DOCUMENT AS HIS OWN.		
PREPARED BY: UNLESS NOTED		
NO.	DATE	DESCRIPTION
1	12/01/2018	SUBMITTAL
ARCHITECTS JOB NO. YDC-4887		
PROJECT INFORMATION		
TUC_IRONWOOD HILL 2955 W IRONWOOD HILL DRIVE TUCSON, ARIZONA, 85745		
SHEET TITLE		
TITLE SHEET		
JURISDICTION APPROVAL		
SHEET NUMBER		
T-1		

GENERAL NOTES:

DRAWINGS ARE NOT TO BE SCALED. WRITTEN DIMENSIONS TAKE PRECEDENCE OVER ANY DIMENSIONS SHOWN ON THE DRAWINGS. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE CITY OF TUCSON. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE CITY OF TUCSON. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE CITY OF TUCSON.

THE ARCHITECT/ENGINEER HAS MADE EVERY EFFORT TO SET FORTH IN THE CONSTRUCTION AND CONTRACT DOCUMENTS THE COMPLETE SCOPE OF WORK. CONTRACTORS BIDDING THE JOB SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE CITY OF TUCSON. THE ARCHITECT/ENGINEER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE CITY OF TUCSON.

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STANDARD CIVIL NOTES:

ALL SITE WORK SHALL BE AS INDICATED ON THE DRAWINGS AND SPECIFIED IN THE SPECIFICATION PROJECT SUMMARY. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE CITY OF TUCSON.

GENERAL CONCRETE NOTES:

ALL CONCRETE CONSTRUCTION SHALL BE IN ACCORDANCE WITH AC-308. CONCRETE SHALL BE MIXED, PROPORTIONED, CONVEYED AND PLACED IN ACCORDANCE WITH CHAPTER 5 OF THE CURRENT BUILDING CODE. STRENGTHS AT 28 DAYS AND MIX CRITERIA SHALL BE AS FOLLOWS:

TYPE OF CONSTRUCTION	NO. DAY STRENGTH (PSI)	W/C RATIO	MINIMUM CEMENT PER CU YD (YARDS)
A. SLAB ON GRADE TOPPING SLAB CONCRETE (PERIS)	2,400 PSI	≤ .43	5 1/2 BAGS
B. ALL STRUCTURAL CONCRETE EXCEPT WALLS	4,000 PSI	≤ .43	6 1/2 BAGS
C. CONCRETE WALLS	4,000 PSI	≤ .43	6 1/2 BAGS

CEMENT SHALL BE ASTM C150, PORTLAND CEMENT TYPE I OR II. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE METHODS AND PROCEDURES OF CONCRETE PLACEMENT. ALL CONCRETE WITH SURFACES EXPOSED TO STANDING WATER SHALL BE AIR-ENTRAINED WITH AN AIR-ENTRAINING AGENT CONFORMING TO ASTM C660, CLASS C, 889 AND C-207. TOTAL AIR CONTENT SHALL BE IN ACCORDANCE WITH TABLE 1904.2.1 OF THE CURRENT BUILDING CODE.

REINFORCING STEEL SHALL CONFORM TO ASTM A618 (INCLUDING SUPPLEMENT B), GRADE 60, 80,000 PSI. REINFORCING STEEL SHALL BE WELDED TOGETHER WITH WELDED JOINTS. WELDED JOINTS SHALL BE WELDED TOGETHER WITH WELDED JOINTS. WELDED JOINTS SHALL BE WELDED TOGETHER WITH WELDED JOINTS.

STRUCTURAL STEEL NOTES:

SHOP DRAWINGS FOR STRUCTURAL STEEL SHALL BE SUBMITTED TO THE CONSULTANT FOR REVIEW PRIOR TO FABRICATION. STRUCTURAL STEEL DESIGN, FABRICATION AND ERECTION (INCLUDING FIELD WELDING, HIGH STRENGTH WELDS, AND EXPANSION BOLTS) AND THROUGH EXPANSION ANCHORS SHALL BE MADE ON THE BASIS OF THE SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE CITY OF TUCSON.

ALL WELDING SHALL BE IN ACCORDANCE WITH AISC AND AASHTO STANDARDS AND SHALL BE PERFORMED BY WELDERS WHO ARE CERTIFIED WELDERS IN ACCORDANCE WITH AISC AND AASHTO STANDARDS. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE CITY OF TUCSON.

ALL WELDS TO BE 1/4" FALLET UNLESS NOTED OTHERWISE. TO PICK UP ALL FIELD DRILLING AND WELDING WITH 2 COATS OF GALVACON (ZINC RICH PAINT) OR APPROVED EQUIV.

MASONRY

PROVIDE EXPERIENCED, WELL-TRAINED WORKERS COMPETENT TO COMPLETE THE WORK AS SPECIFIED. CONCRETE BRICKS, ASTM C90, HOLLOW LOAD-BEARING UNITS, ASTM C90, HOLLOW NON-LOAD-BEARING UNIT, ASTM C120, SOLID LOAD-BEARING UNITS, ASTM C140. GRADES AND TYPES: HOLLOW, LOAD-BEARING UNIT TYPE I, MEDIUM WEIGHT FOR EXTERIOR, HOLLOW, LOAD-BEARING UNIT TYPE I, MEDIUM WEIGHT FOR INTERIOR.

UNIT MASONRY INSTALLATION AND MORTAR APPLICATION. COMPLETE THIS WORK IN A TIMELY FASHION WITHOUT INTERFERING WITH OR DELAYING THE WORK OF OTHER TRADES. COMPLETE ALL WORK ACCORDING TO THE STANDARDS AND SPECIFICATIONS OF THE MASONRY INSTITUTE OF AMERICA.

SIGNS

INSTALL EMBLEMATIC INFORMATION PLACARD NEAR ENTRANCE GATE OF EQUIPMENT AREA (OR MOST VISIBLE PLACE ON OUTSIDE COMPOUND WALL). PLACARD TO CONTAIN SITE NAME, SITE NUMBER, COMPANY NAME, ADDRESS INFORMATION, AND A 300 NUMBER TO CALL IN CASE OF EMERGENCY. PLACARD IS TO COMBINE OF HIGH CONTRAST LETTERING (BLACK ON WHITE OR WHITE ON BLACK) BEHIND VANDAL RESISTANT LEAN EXCAV COVER.

LEGEND

ANTENNA	NEW ANTENNA	EXISTING ANTENNA	EXISTING ANTENNA
GROUND ROD	GROUND ROD	GROUND BUS BAR	GROUND BUS BAR
MECHANICAL DRUM COIL	MECHANICAL DRUM COIL	CONCRETE	CONCRETE
GROUND ACCESS WELL	GROUND ACCESS WELL	EARTH	EARTH
ELECTRIC BOX	ELECTRIC BOX	DRIVEWAY	DRIVEWAY
PLYWOOD	PLYWOOD	STUCCO	STUCCO
WOOD COAT	WOOD COAT	WOOD BLOCKING	WOOD BLOCKING
STEEL	STEEL	CENTERLINE	CENTERLINE
PROPERTY/EASE LINE	PROPERTY/EASE LINE	LEASE LINE	LEASE LINE
GROUND CONDUCTOR	GROUND CONDUCTOR	TELEPHONE CONDUIT	TELEPHONE CONDUIT
ELECTRICAL CONDUIT	ELECTRICAL CONDUIT	COAXIAL CABLE	COAXIAL CABLE
OVERHEAD SERVICE	OVERHEAD SERVICE	CHAIN LINK FENCING	CHAIN LINK FENCING

PAINTING

THE CONTRACTOR SHALL PREPARE SURFACES, FURNISH ALL PAINT, MATERIAL, LABOR AND EQUIPMENT REQUIRED FOR THE PAINTING OF ALL SURFACES AS REQUIRED BY THE DRAWINGS AND SPECIFIED HEREIN. PAINTS TO BE APPLIED IN ALL VERTICAL SURFACES UPON COMPLETION. REMOVE ALL MATERIAL AND DEBRIS CAUSED BY THIS CONTRACTOR, ALL HARDWARE, FLOOR, AIR, FRACTION FIXTURES AND THE LIKE SHALL BE THOROUGHLY CLEANED OF PAINT.

SIGNS

INSTALL EMBLEMATIC INFORMATION PLACARD NEAR ENTRANCE GATE OF EQUIPMENT AREA (OR MOST VISIBLE PLACE ON OUTSIDE COMPOUND WALL). PLACARD TO CONTAIN SITE NAME, SITE NUMBER, COMPANY NAME, ADDRESS INFORMATION, AND A 300 NUMBER TO CALL IN CASE OF EMERGENCY. PLACARD IS TO COMBINE OF HIGH CONTRAST LETTERING (BLACK ON WHITE OR WHITE ON BLACK) BEHIND VANDAL RESISTANT LEAN EXCAV COVER.

LEGEND

ANTENNA	NEW ANTENNA	EXISTING ANTENNA	EXISTING ANTENNA
GROUND ROD	GROUND ROD	GROUND BUS BAR	GROUND BUS BAR
MECHANICAL DRUM COIL	MECHANICAL DRUM COIL	CONCRETE	CONCRETE
GROUND ACCESS WELL	GROUND ACCESS WELL	EARTH	EARTH
ELECTRIC BOX	ELECTRIC BOX	DRIVEWAY	DRIVEWAY
PLYWOOD	PLYWOOD	STUCCO	STUCCO
WOOD COAT	WOOD COAT	WOOD BLOCKING	WOOD BLOCKING
STEEL	STEEL	CENTERLINE	CENTERLINE
PROPERTY/EASE LINE	PROPERTY/EASE LINE	LEASE LINE	LEASE LINE
GROUND CONDUCTOR	GROUND CONDUCTOR	TELEPHONE CONDUIT	TELEPHONE CONDUIT
ELECTRICAL CONDUIT	ELECTRICAL CONDUIT	COAXIAL CABLE	COAXIAL CABLE
OVERHEAD SERVICE	OVERHEAD SERVICE	CHAIN LINK FENCING	CHAIN LINK FENCING

CLIENT

verizon

126 W. GEMINI DR.
TEMPE, AZ 85263

INTERNAL REVIEW _____ DATE _____

CONSTRUCTION SIGNATURE _____

RF SIGNATURE _____

FACILITIES SIGNATURE _____

REAL ESTATE SIGNATURE _____

PLANS PREPARED BY

Young design corp

architecture / project management
10245 E. Via Linda, Scottsdale, AZ 85258
tel: 480 491 8609 fax: 480 451 9608
e mail: corporate@ydcoffice.com

SEAL

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YOUNG DESIGN CORPORATION

NO. DATE DESCRIPTION

1	12/01/2016	SUBMITAL
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ARCHITECTS JOB NO. YDC-4887

PROJECT INFORMATION

TUC_IRONWOOD HILL

2565 W. IRONWOOD HILL DRIVE
TUCSON, ARIZONA, 85746

SHEET TITLE
GENERAL INFORMATION

JURISDICTION APPROVAL

SHEET NUMBER
T-2

LESSOR'S LEGAL DESCRIPTION
PIMA COUNTY RIGHT-OF-WAY

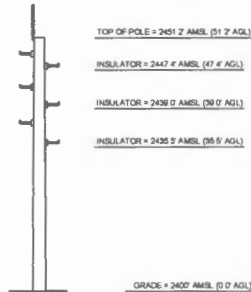
POSITION OF GEODETIC COORDINATES
LATITUDE 32° 19' 02.146" NORTH (NAD83)
LONGITUDE 111° 01' 48.243" WEST (NAD83)
ELEVATION @ GROUND= 2454.8 (NAVD83)

EXTENSION = 2454.8 AMSL (54.7 AGL)

INSULATOR = 2450.7 AMSL (50.7 AGL)

INSULATOR = 2444.7 AMSL (44.7 AGL)

INSULATOR = 2437.4 AMSL (37.4 AGL)



SURVEYOR NOTES

1. A TITLE REPORT WAS NOT PROVIDED AT THE TIME OF THE SURVEY
2. SURVEYOR HAS NOT PERFORMED A SEARCH OF PUBLIC RECORDS TO DETERMINE ANY DEFECT IN TITLE
3. THE BOUNDARY SHOWN HEREON IS PLOTTED FROM RECORD INFORMATION AND DOES NOT CONSTITUTE A BOUNDARY SURVEY OF THE PROPERTY
4. SURVEYOR DOES NOT GUARANTEE THAT ALL UTILITIES ARE SHOWN OR THEIR LOCATIONS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR AND DEVELOPER TO CONTACT BLUE STAKE AND ANY OTHER INVOLVED AGENCIES TO LOCATE ALL UTILITIES PRIOR TO CONSTRUCTION. REMOVAL, RELOCATION AND/OR REPLACEMENT IS THE RESPONSIBILITY OF THE CONTRACTOR

PROJECT META DATA

1. ELEVATIONS SHOWN HEREON ARE REPRESENTED IN NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD83) ESTABLISHED FROM GPS DERIVED ELLIPSOID HEIGHTS, APPLYING GEOID SEPARATIONS CONSTRUCTING TO NGS CORS STATIONS PROVIDED IN THE "ONLINE POSITIONING USER SERVICE" (OPUS) SOLUTION FOR THIS SPECIFIC SITE
2. BEARINGS SHOWN HEREON ARE BASED UPON U.S. STATE PLANE NAD83 COORDINATE SYSTEM ARIZONA STATE PLANE COORDINATE ZONE CENTRAL, DETERMINED BY GPS OBSERVATIONS
3. FIELD WORK FOR THIS PROJECT WAS PERFORMED ON 03/29/18

FLOOD ZONE DESIGNATION

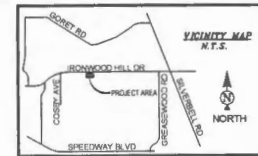
THE PROPOSED LEASE PREMISES SHOWN HEREON APPEARS TO BE WITHIN FLOOD ZONE "X" AS DELINEATED ON THE FEDERAL EMERGENCY MANAGEMENT AGENCY FIRM MAP NO. 0401SC1898L DATED 09/16/2011
FLOOD ZONE "X" IS DEFINED AS AREAS DETERMINED TO BE OUTSIDE 500-YEAR FLOODPLAIN, DETERMINED TO BE OUTSIDE THE 1% AND 0.2% ANNUAL CHANCE FLOODPLAIN

LESSEE LEASE AREA LEGAL DESCRIPTION

A PORTION OF THE NORTHEAST QUARTER OF SECTION 5, TOWNSHIP 14 SOUTH, RANGE 14 EAST OF THE GILA AND BALT RIVER BASE AND MERIDIAN, PIMA COUNTY ARIZONA, ALSO BEING PART OF THE PIMA COUNTY RIGHT-OF-WAY, DESCRIBED AS FOLLOWS:

COMMENCING AT THE NORTHEAST CORNER OF SAID SECTION 5, THENCE SOUTH 89°39'00" WEST ALONG THE NORTH LINE OF SAID SECTION 5, 433.45 FEET, THENCE DEPARTING SAID NORTH LINE SOUTH 07°00'00" EAST, 54.87 FEET TO THE POINT OF BEGINNING

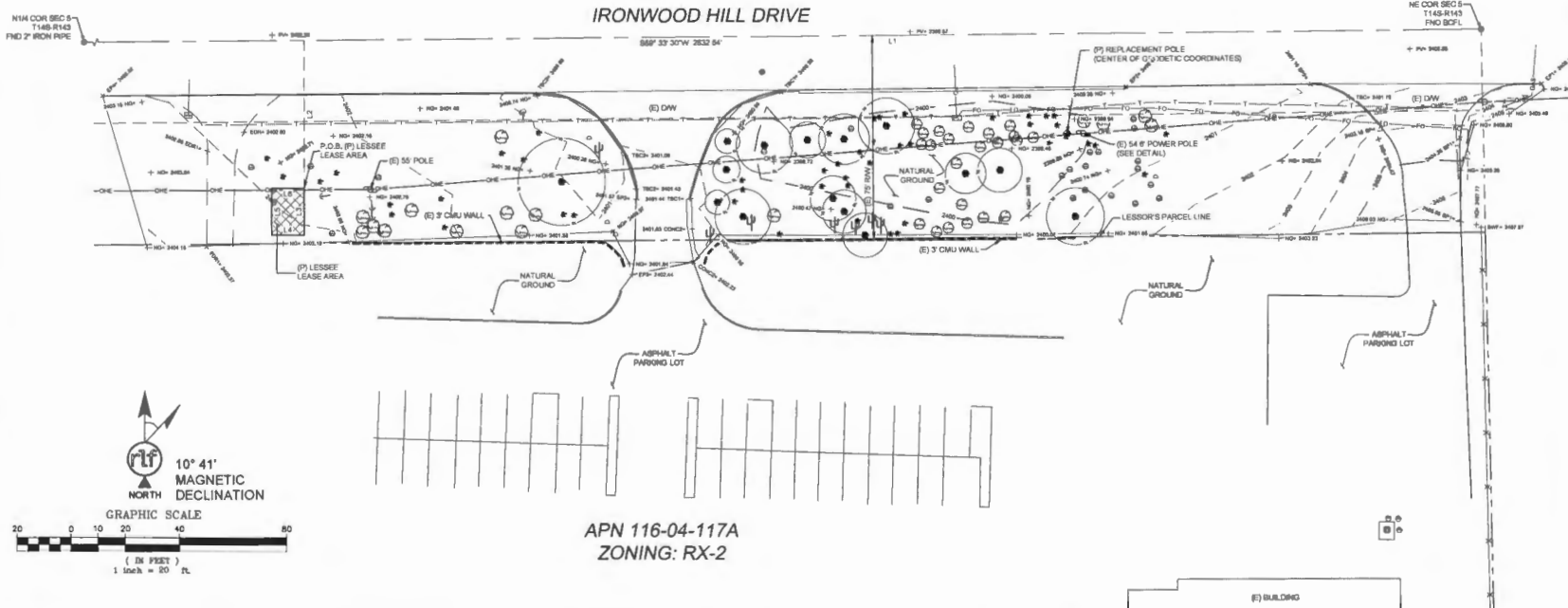
THENCE SOUTH 07°00'00" EAST, 17.33 FEET, THENCE NORTH 80°00'00" WEST, 12.00 FEET, THENCE NORTH 09°00'00" EAST, 17.33 FEET, THENCE NORTH 90°00'00" EAST, 12.00 FEET TO THE POINT OF BEGINNING



LEGEND

- FOUND AS NOTED
- CMU CONCRETE MASONRY UNIT
- DW ACCESS DRIVEWAY
- NO NATURAL GRADE
- PV ASPHALT
- RW RIGHT OF WAY
- SW SIDEWALK
- TBC TOP BACK OF CURB
- ELECTRICAL PULL BOX
- ELECTRIC METER
- FIBER VAULT
- TELEPHONE PULL BOX
- TELEPHONE VAULT
- ⊙ POWER POLE
- ⊙ DOWN DUTY
- ⊙ GAS VALVE
- ⊙ FIRE HYDRANT
- ⊙ WATER VALVE
- ⊙ WATER METER
- ⊙ SAGUARO CACTUS
- ⊙ CACTUS
- ⊙ BARREL CACTUS
- ⊙ BUSH
- ⊙ NATIVE TREE
- ⊙ BOLLARD
- ⊙ BRICKLINE
- ⊙ SCHEDULE B HEX
- ⊙ POSITION OF GEODETIC COORDINATES
- PROPERTY LINE (OTHER)
- RIGHT-OF-WAY LINE
- MONUMENT LINE
- LEASE LINE
- CHAIN LINK FENCE
- OVERHEAD ELECTRIC LINE
- UG1 ELECTRIC LINE
- UG1 TELECOMMUNICATION LINE
- UG1 UNDERGROUND TV LINE
- UG1 FIBER OPTIC LINE
- UG1 GAS LINE
- WATER LINE
- TREE CANOPY DRIP LINE

LINE	LENGTH	BEARING
L1	433.45	S89° 33' 30" W
L2	54.87	S07° 00' 00" E
L3	17.33	S07° 00' 00" E
L4	12.00	N80° 00' 00" W
L5	17.33	N09° 00' 00" E
L6	12.00	N80° 00' 00" E



126 W. GEMINI DR.
TEMPE, AZ 85263

architecture / project management
10245 E. Via Linda, Scottsdale, AZ 85258
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e mail: corp@ydcoffice.com

FIELD BY:	JTB
DRAWN BY:	CRB
CHECKED BY:	RLP

REVISIONS		
7	03/10/17	REVISION
6	12/01/18	REVISION
5	08/15/16	REVISION
4	07/28/16	REVISION
3	05/31/16	FINAL
2	04/05/16	REVISION
1	04/05/16	PRELIMINARY

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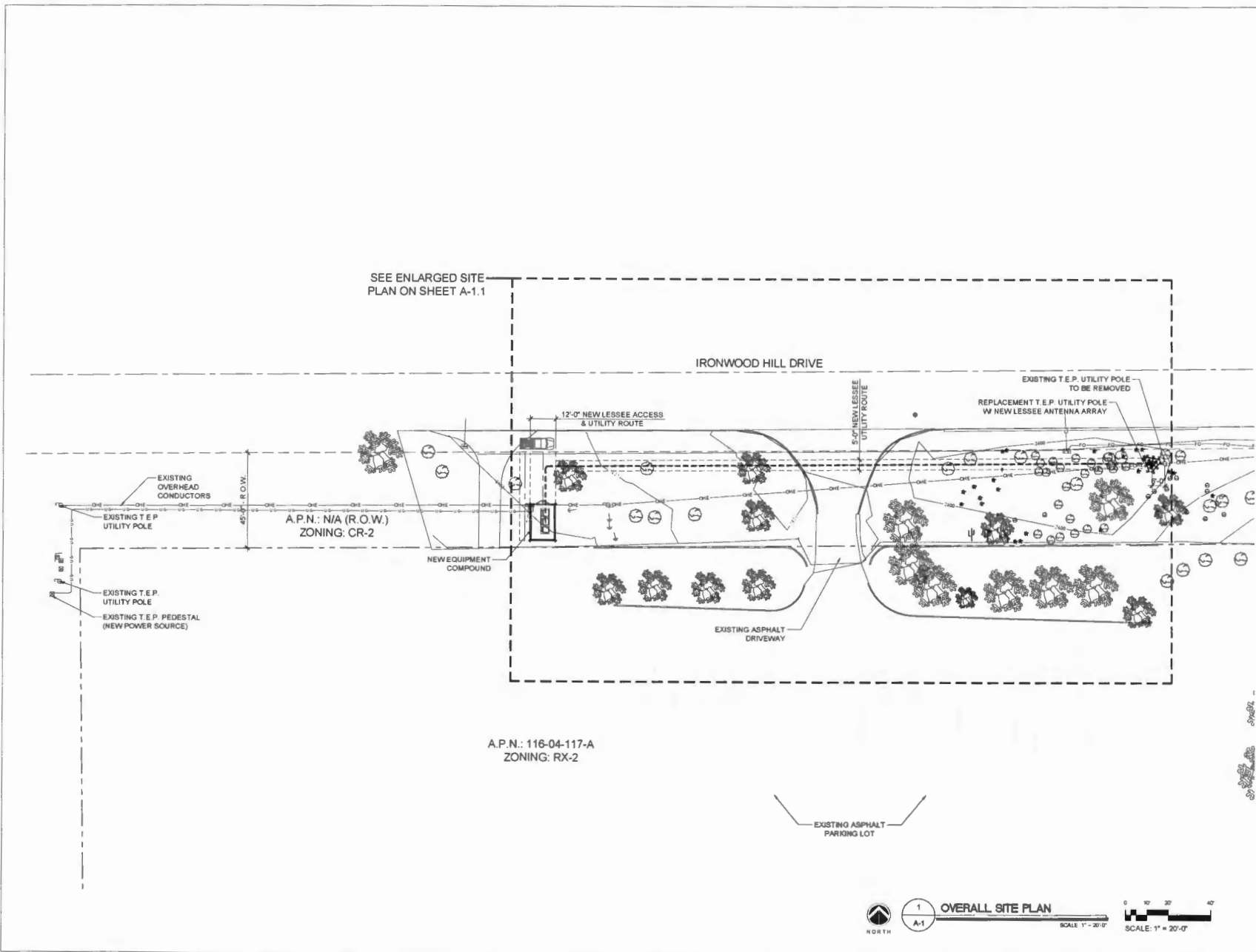
PROJECT No:
09006395

SITE NAME:
TUC IRONWOOD HILL

SITE ADDRESS:
**2955 W IRONWOOD HILL DRIVE
TUCSON, AZ 85745**

SHEET TITLE:
SURVEY DETAIL

SHEET NO. LS-1	REVISION
--------------------------	----------



CLIENT

verizon
 126 W. GEMINI DR.
 TEMPE, AZ 85283

INTERNAL REVIEW	DATE
CONSTRUCTION SIGNATURE	
RF SIGNATURE	
FACILITIES SIGNATURE	
REAL ESTATE SIGNATURE	

PLANS PREPARED BY

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 SEP 19/2018

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NO	DATE	DESCRIPTION
1	12/01/2018	SUBMITTAL

ARCHITECTS JOB NO.
YDC-4887

PROJECT INFORMATION

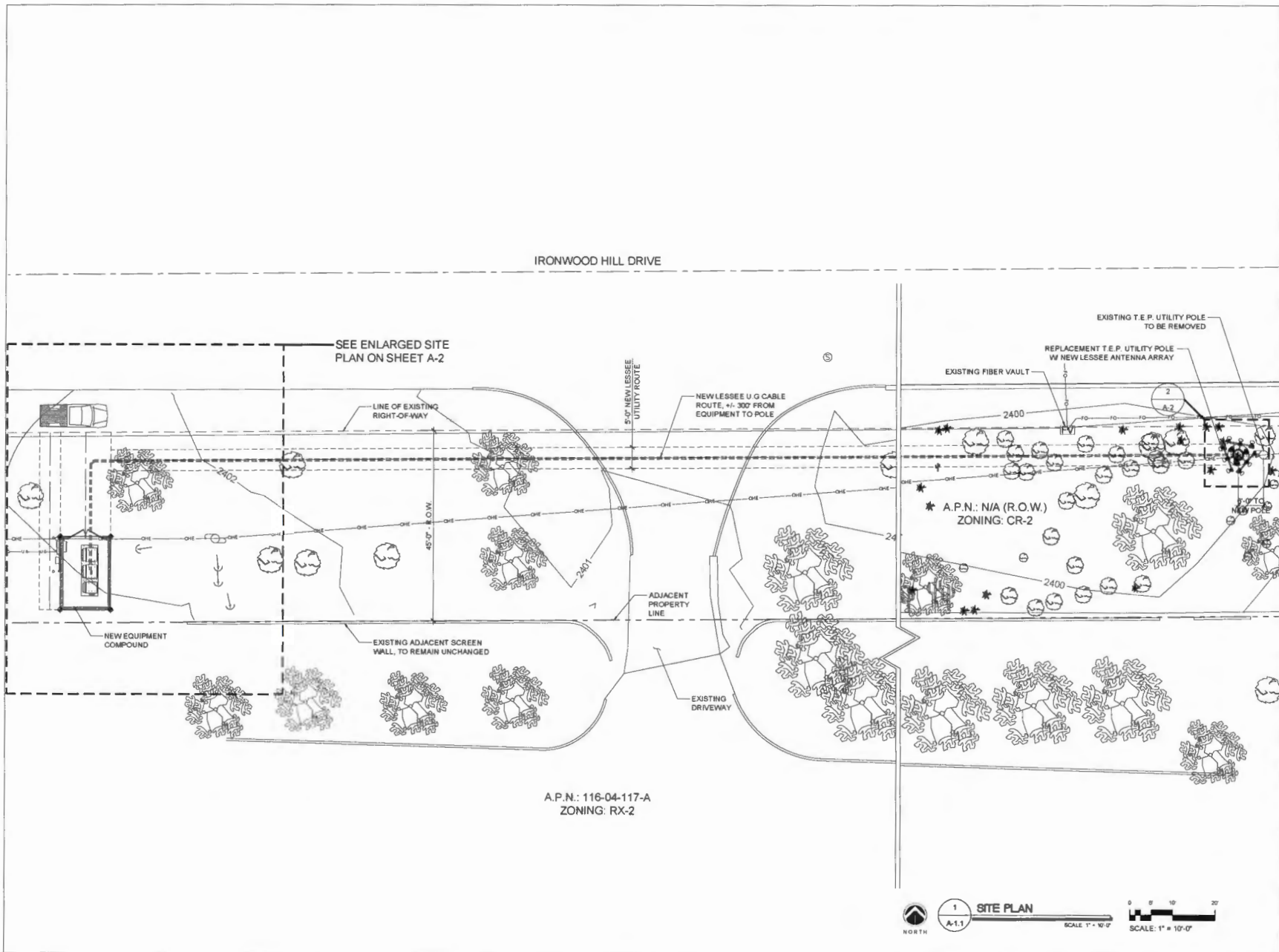
TUC_IRONWOOD HILL
 2955 W. IRONWOOD HILL DRIVE
 TUCSON, ARIZONA, 85745

SHEET TITLE
OVERALL SITE PLAN

JURISDICTION APPROVAL

SHEET NUMBER
A-1

1 OVERALL SITE PLAN
 A-1
 SCALE: 1" = 20'-0"
 SCALE: 1" = 20'-0"



IRONWOOD HILL DRIVE

SEE ENLARGED SITE PLAN ON SHEET A-2

A.P.N.: 116-04-117-A
ZONING: RX-2



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WILLIAM C. YOUNG
Professional Engineer
Lic. 12318

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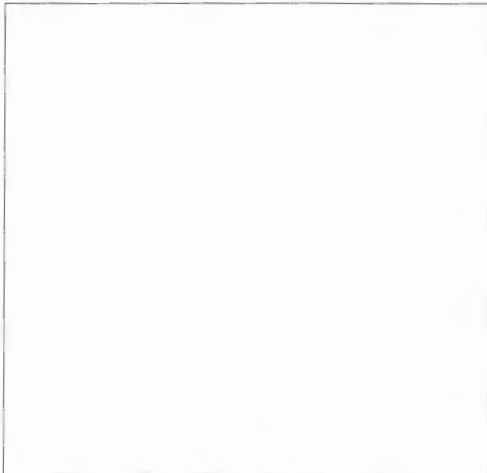
PROJECT INFORMATION

TUC_IRONWOOD HILL
2855 W. IRONWOOD HILL DRIVE
TUCSON, ARIZONA, 85745

SHEET TITLE
SITE PLAN

JURISDICTION APPROVAL

SHEET NUMBER
A-1.1

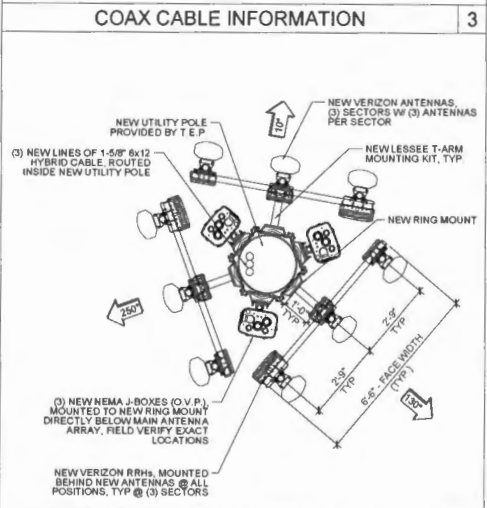


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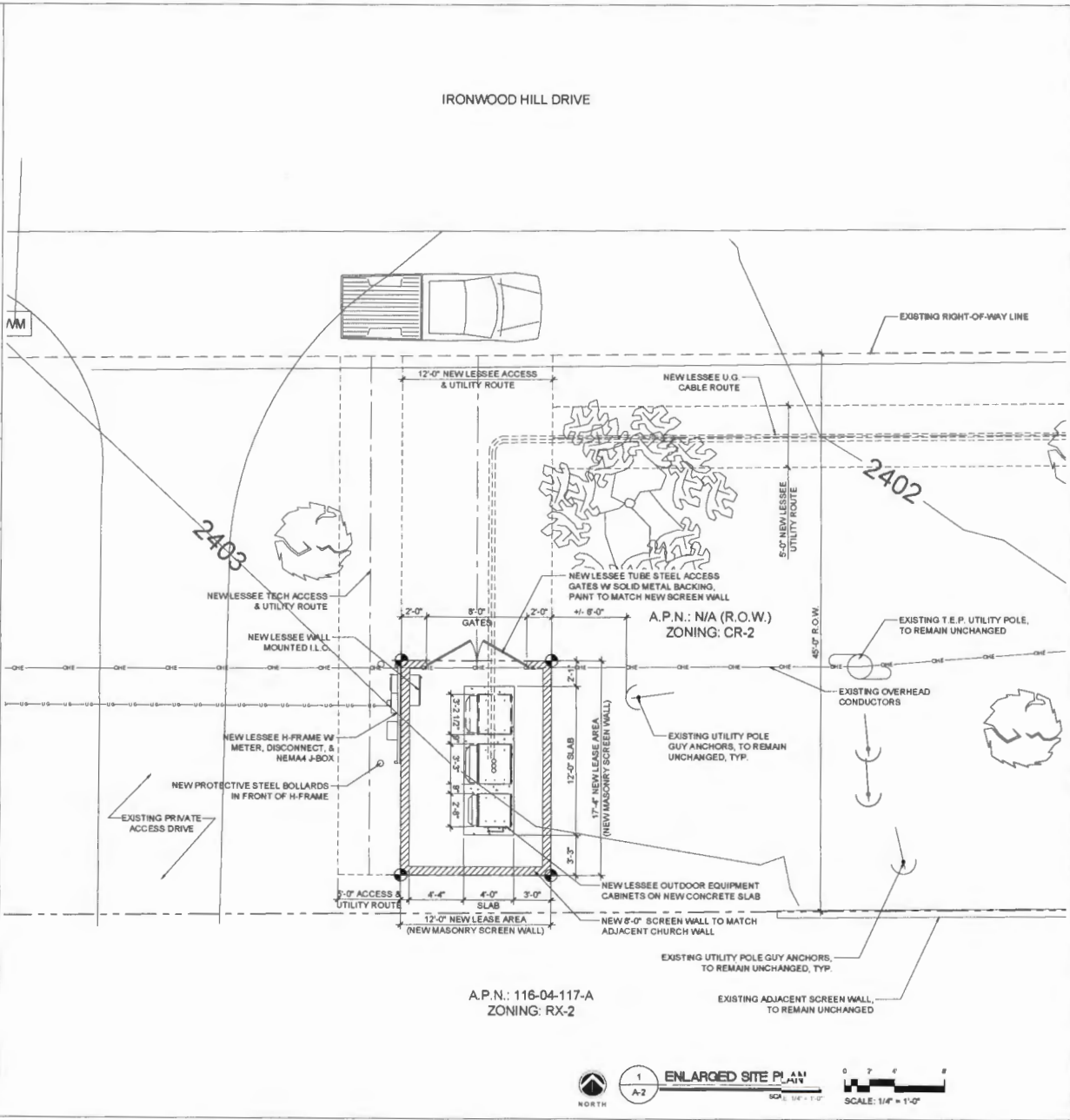
COAXIAL CABLE TABLE					
SECTOR	AZIMUTH	CENTERLINE	QTY.	SIZE	TYPE
ALPHA	10°	81'-4"	-	-	-
BETA	130°	81'-4"	-	-	-
GAMMA	250°	81'-4"	-	-	-
N/A	N/A	81'-4"	3	1-5/8"	8x12 HYBRID

NOTE:
ALL AZIMUTHS SHOWN ARE RELATIVE TO TRUE NORTH, UNLESS NOTED OTHERWISE.

*IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO VERIFY AZIMUTHS DEPICTED HEREIN WITH RF DEPARTMENT PRIOR TO INSTALLING ANTENNAS.



NEW ANTENNA CONFIGURATION



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INTERNAL REVIEW	DATE
CONSTRUCTION SIGNATURE	
RF SIGNATURE	
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REGISTERED PROFESSIONAL ENGINEER
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1	12/01/2016	SUBMITTAL

ARCHITECTS JOB NO.
YDC-4887

PROJECT INFORMATION

TUC_IRONWOOD HILL

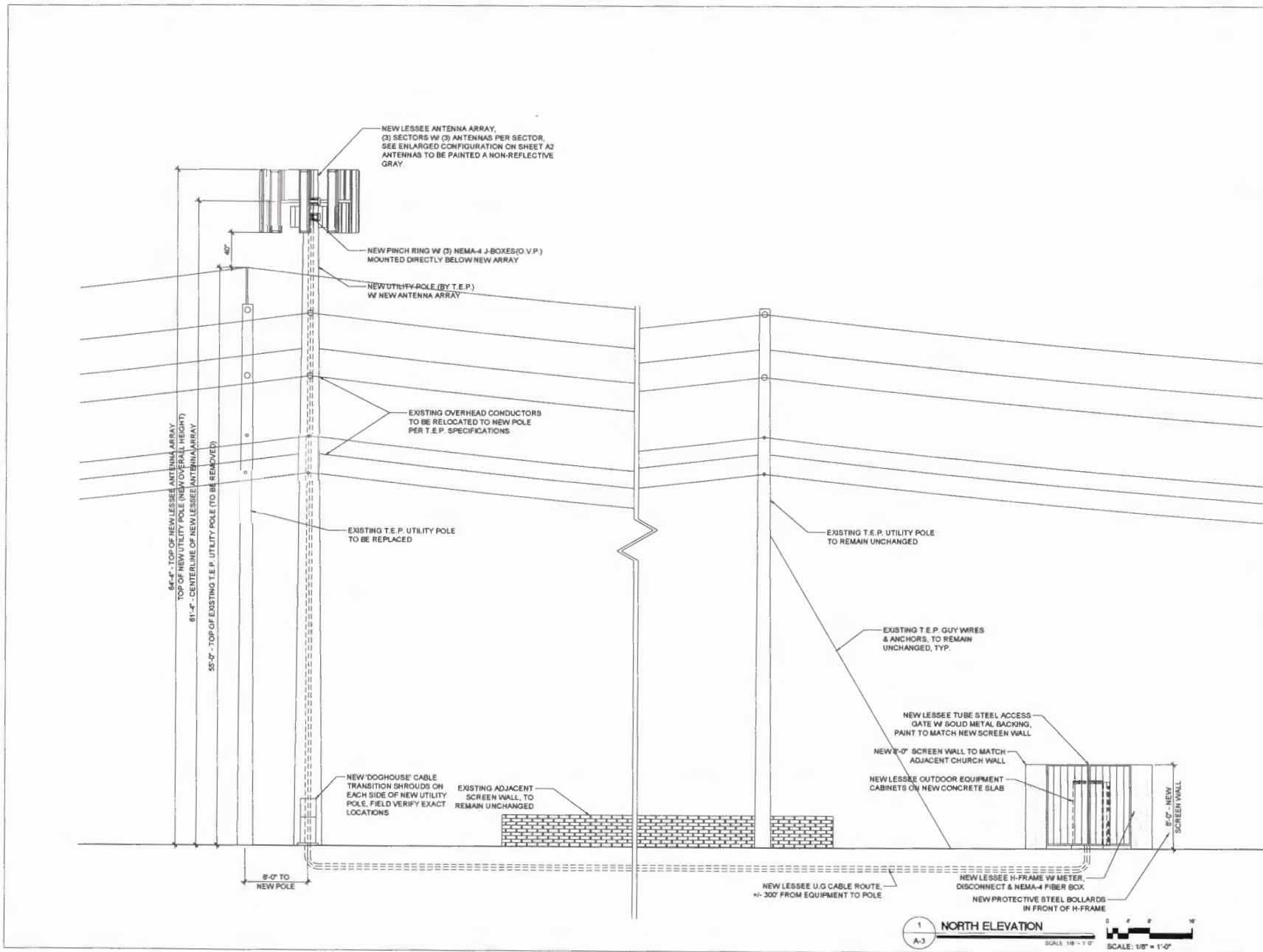
2955 W. IRONWOOD HILL DRIVE
TUCSON, ARIZONA, 85745

SHEET TITLE
ENLARGED SITE PLAN & SITE DETAILS

JURISDICTION APPROVAL

SHEET NUMBER
A-2





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126 W. GEMINI DR.
TEMPE, AZ 85283

INTERNAL REVIEW _____ DATE _____

CONSTRUCTION SIGNATURE _____

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FACILITIES SIGNATURE _____

REAL ESTATE SIGNATURE _____

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YOUNG
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SEP 1993/08

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1	12/01/2018	SUBMITAL

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YDC-4887

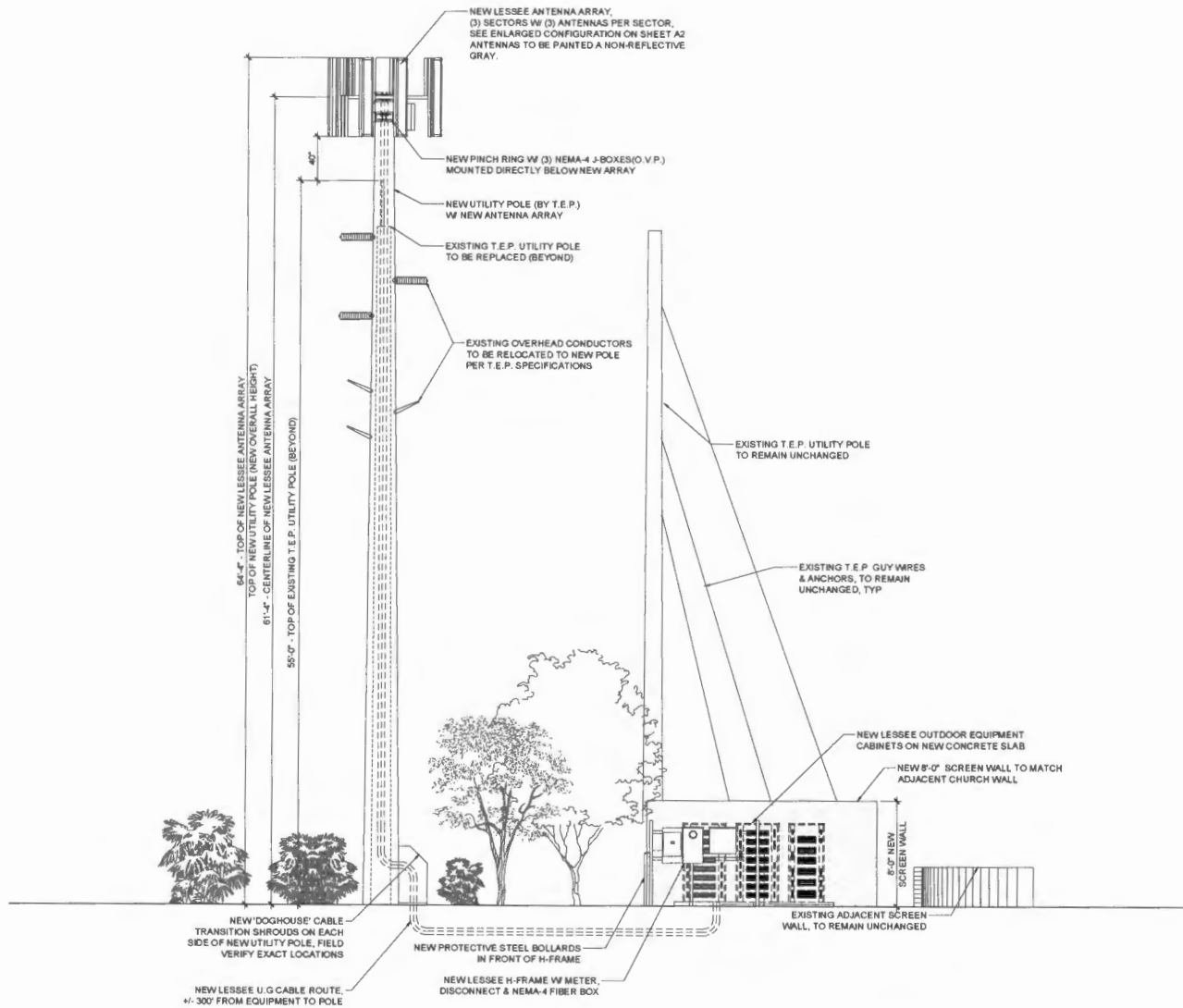
PROJECT INFORMATION

TUC_IRONWOOD HILL
2955 W IRONWOOD HILL DRIVE
TUCSON, ARIZONA, 85745

SHEET TITLE
ELEVATIONS

JURISDICTION APPROVAL

SHEET NUMBER
A-3



1 WEST ELEVATION
 A-4
 SCALE: 1/4" = 1'-0"

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INTERNAL REVIEW _____ DATE _____

CONSTRUCTION SIGNATURE _____

RF SIGNATURE _____

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PROFESSIONAL ENGINEER
 YOUNG DESIGN CORPORATION
 12/12/18

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NO.	DATE	DESCRIPTION
1	12/01/2018	SUBMITTAL

ARCHITECTS JOB NO.
 YDC-4887

PROJECT INFORMATION
TUC_IRONWOOD HILL
 2965 W IRONWOOD HILL DRIVE
 TUCSON, ARIZONA, 85745

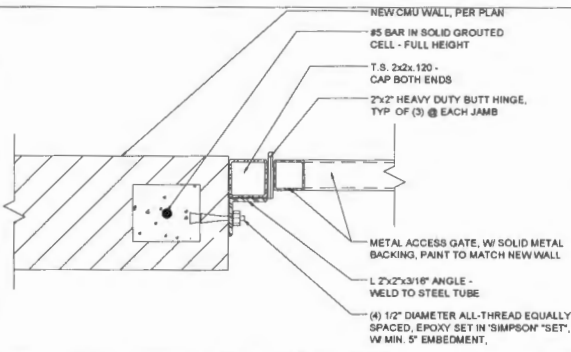
SHEET TITLE
ELEVATION

JURISDICTION APPROVAL _____

SHEET NUMBER
A-4

- MATERIAL PROPERTIES:**
1. MASONRY $F_m = 1,500$ PSI
 2. REINFORCING A815 $F_y = 60$ KSI
 3. MORTAR TYPES $F_c = 1,800$ PSI
 4. GROUT $F_c = 2,000$ PSI
 5. CONCRETE $F_c = 3,000$ PSI
 6. ALLOWABLE SOIL BEARING $Q_s = 2,000$ PSF
 7. TYPE II CEMENT
- SPECIAL INSPECTIONS:**
1. CONCRETE
 2. REBAR - FOOTING AND WALL
 3. SOIL
 4. MASONRY - GROUTING

- GENERAL NOTES:**
1. COMPACTION PER VAN ENGINEERING GEOTECHNICAL REPORT RECOMMENDATIONS, REPORT #24857.
 2. CONTROL JOINTS REQUIRED, NOT TO EXCEED 24' O.C.
 3. BEGIN AND TERMINATE VERTICAL REBAR SPACING FOR CMU AT END OF WALL LOCATIONS TO INCLUDE CONTROL JOINTS.
 4. CONCRETE FOOTING TO BE ONE MONOLITHIC POUR, CONTINUE FOOTING BENEATH GATES.



NOTE: ALL FACILITY PLAQUES TO BE MOUNTED AT 5'-0" A.F.F.

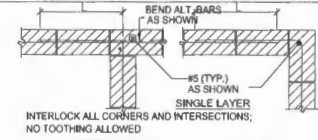
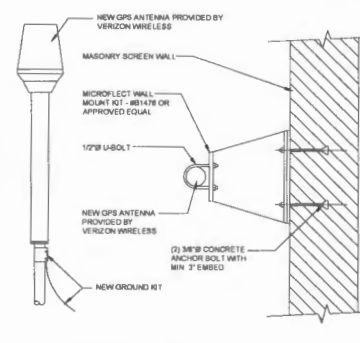
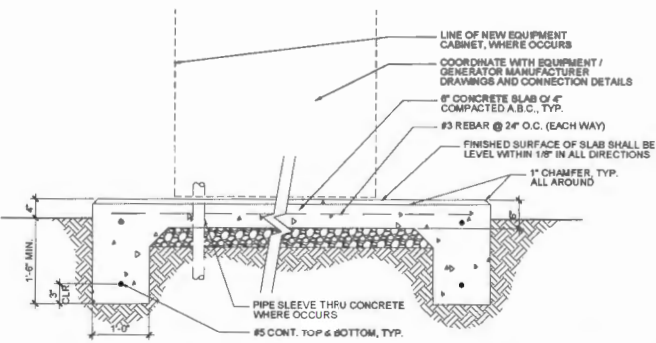
32" WIDE x 18" HIGH SIGN WITH 1-1/2" HIGH BLACK LETTERS ON WHITE BACKGROUND.

verizon
VERIZON WIRELESS
TELECOMMUNICATIONS SITE
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TEMPE, AZ, 85283
IN CASE OF EMERGENCY CALL
800-264-6620

GENERAL WALL NOTES

GATE JAMB DETAIL

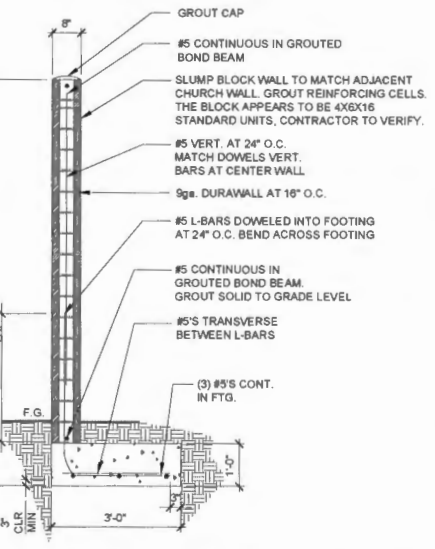
EMERGENCY SITE PLAQUE DETAIL



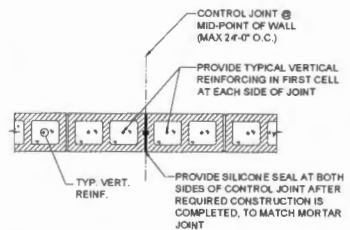
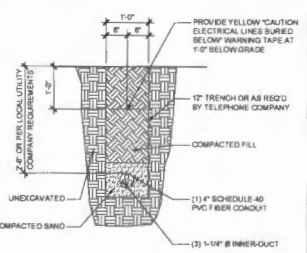
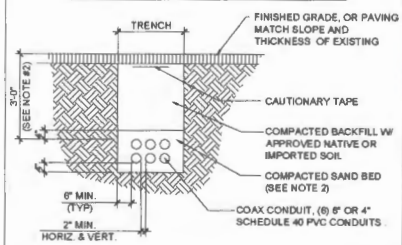
CONC. Fc P.S.I.	BAR SIZE										
	3	4	5	6	7	8	9	10	11	CORNER	
2000	24	24	36	50	59	91	119	149	178		
3000	24	29	36	46	63	82	104	132	165		
4000	24	29	36	43	54	71	90	113	141		
MASONRY	24	24	30	36	42	48					

EQUIPMENT SLAB DETAIL

GPS MOUNTING DETAIL



- NOTES:**
1. PROVIDE PROPER BENDING RADIUS FOR CONDUITS AS REQUIRED BY THE COAXIAL CABLE MFR.
 2. LEAN CONCRETE W/ RED TINTED TOP MAY BE USED IN PLACE OF COMPACTED SAND.



- NOTES:**
1. CONTROL JOINTS AT MAXIMUM OF 24' O.C. / STRAIGHT RUN
 2. JOINT SHALL BE CONTINUOUS WITHOUT INTERRUPTION FROM TOP OF FOOTING TO TOP OF WALL, TYP.
 3. NO CONTROL JOINT WITHIN 4'-0" MIN. OF OPENINGS OR END OF WALL
 4. HORIZONTAL REINFORCING AND BOND BEAMS SHALL BE CONTINUOUS AT CONTROL JOINT.

COAX TRENCH DETAIL

FIBER TRENCH DETAIL

MASONRY CONTROL JOINT

MASONRY SITE WALL DETAIL

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 TEMPE, AZ 85283

INTERNAL REVIEW _____ DATE _____

CONSTRUCTION SIGNATURE _____

RF SIGNATURE _____

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REAL ESTATE SIGNATURE _____

PLANS PREPARED BY

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architecture / project management
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 480.451.9609

NO.	DATE	DESCRIPTION
1	12/01/2018	SUBMITTAL

ARCHITECTS JOB NO. YDC-4887

PROJECT INFORMATION

TUC_IRONWOOD HILL
 2955 W. IRONWOOD HILL DRIVE
 TUCSON, ARIZONA, 85745

SHEET TITLE
SITE DETAILS

JURISDICTION APPROVAL

SHEET NUMBER
A-5

ELECTRICAL SPECIFICATIONS

1. SUBMITTAL OF BID INDICATES CONTRACTOR IS COORDINATOR OF ALL JOB SITE CONDITIONS AND WORK TO BE PERFORMED UNDER THIS CONTRACT.
2. CONTRACTOR SHALL PERFORMANCE GUARANTEE ALL TESTS AND DEMONSTRATION WORK PRIOR TO THE COMMENCEMENT OF THE ELECTRICAL EQUIPMENT AND THE ACTUAL CONTRACTOR SHALL FURNISH A WRITTEN NOTICE OF ALL FINISHES TO THE ARCHITECT USING ALL MANUFACTURERS, TRADES AND DISCREPANCIES.
3. DIMENSIONS SHALL BE VERIFIED WITH OWNER PRIOR TO INSTALLATION.
4. THESE PLANS ARE DIMENSIONAL ONLY, FOLLOW AS CLOSELY AS POSSIBLE.
5. EACH CONDUCTOR OF EVERY SYSTEM SHALL BE PERMANENTLY TRACED IN EACH PANELBOARD, PULLBOX, F-BOX, SWITCH BOX, ETC., IN COMPLIANCE WITH OCCUPATIONAL SAFETY AND HEALTH ACT (O.S.H.A.)
6. CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS, INSURANCE, EQUIPMENT, INSTALLATION, CONSTRUCTION TOOLS, TRANSPORTATION, ETC., FOR A COMPLETE AND PROPERLY OPERATIVE SYSTEM ENDED THROUGHOUT AND AS INDICATED ON DRAWINGS, AS SPECIFIED HEREIN AND/OR AS OTHERWISE REQUIRED.
7. ALL MATERIALS AND EQUIPMENT SHALL BE NEW AND IN PERFECT CONDITION WHEN INSTALLED AND SHALL BE OF THE BEST GRADE AND OF THE SAME MANUFACTURER THROUGHOUT FOR EACH CLASS OR GROUP OF EQUIPMENT. MATERIALS SHALL BE LISTED AND APPROVED BY UNDERWRITER'S LABORATORY AND SHALL BEAR THE INSPECTION LABEL. *WHERE SUBJECT TO SUCH APPROVAL, MATERIALS SHALL MEET WITH APPROVAL OF THE DIVISION OF INDUSTRIAL SAFETY AND ALL GOVERNING BODIES HAVING JURISDICTION. MATERIALS SHALL BE MANUFACTURED IN ACCORDANCE WITH APPLICABLE STANDARDS ESTABLISHED BY ANSI, NEMA & IEEE.
8. CONTRACTOR SHALL CARRY OUT HIS WORK IN ACCORDANCE WITH ALL GOVERNING STATE, COUNTY AND LOCAL CODES AND O.S.H.A.
9. CONTRACTOR SHALL SECURE ALL NECESSARY BUILDING PERMITS.
10. COMPLETE JOB SHALL BE GUARANTEED FOR A PERIOD OF ONE (1) YEAR AFTER THE DATE OF JOB ACCEPTANCE BY OWNER. ANY WORK, MATERIALS OR EQUIPMENT FOUND TO BE FAULTY DURING THIS PERIOD SHALL BE CORRECTED AT ONCE, UPON WRITTEN NOTIFICATION, AT THE EXPENSE OF THE CONTRACTOR.
11. ALL CONDUIT ONLY (C.O.) SHALL HAVE A PULL WIRE OR ROPE.
12. PROVIDE PROJECT HANGER WITH ONE SET OF COMPLETE ELECTRICAL "AS INSTALLED" DRAWINGS AT THE COMPLETION OF THE JOB, SHOWING ACTUAL DIMENSIONS, ROUTINGS, AND CIRCUITS.
13. ALL BROCHURES, OPERATING MANUALS, CATALOGS, SHOP DRAWINGS, ETC. SHALL BE TURNED OVER TO OWNER AT JOB COMPLETION.
14. USE 1-20P CONNECTIONS ON ALL MULTI-CIRCUITS WITH COMMON NEUTRAL CONDUCTOR FOR LEADING FUTURE.
15. ALL CONDUCTORS SHALL BE COPPER.
16. ALL CIRCUIT BREAKERS, FUSES AND ELECTRICAL EQUIPMENT SHALL HAVE AN INTERRUPTING RATING NOT LESS THAN THE MAXIMUM SHORT CIRCUIT CURRENT TO WHICH THEY MAY BE SUBJECTED, AND A MINIMUM OF 10,000 A.I.C. SEE DRAWINGS.
17. THE ENTIRE ELECTRICAL INSTALLATION SHALL BE GROUNDED AS REQUIRED BY ALL APPLICABLE CODES AND DRAWINGS.
18. PATCH, REPAIR AND FINISH ANY AREA THAT HAS BEEN DAMAGED IN THE COURSE OF THE ELECTRICAL WORK.
19. IN DRILLING HOLES INTO CONCRETE WHETHER FOR FASTENING OR ANCHORING PURPOSES, IT MUST BE CLEARLY UNDERSTOOD THAT REINFORCING AND/OR REINFORCING STEEL WILL NOT BE DRILLED INTO, CUT OR DAMAGED UNDER ANY CIRCUMSTANCES.
20. NOT USED.
21. PROVIDE THREE/TWENTY-2 INSULATION FOR INSULATED WIRE.
22. RECEPTACLES SHALL BE 20 AMPERE, 125 VOLT A.C., WHITE AS REQUIRED BY THE ARCHITECT OR APPROVED EQUAL.
23. WALL SWITCHES SHALL BE SINGLE-POLE, HUBBELL #1201 OR EQUIVALENT, WHITE AS REQUIRED BY THE ARCHITECT.
24. PLASTIC PLATES FOR ALL SWITCHES, RECEPTACLES, TELEPHONE AND BELLING OUTLETS, SHALL HAVE ENGRAVED LETTERING WHERE INDICATED ON THE DRAWINGS. WEATHERPROOF RECEPTACLES SHALL HAVE ENGRAVED "RHO." 1/2" BUSHED WORK COVERS.
25. WIRE AND CABLE CONDUCTORS SHALL BE COPPER #12 AWG MINIMUM, NO BX OR FIBER CABLE IS PERMITTED UNLESS SPECIFICALLY NOTED OTHERWISE ON DRAWINGS.
26. GROUNDING CONDUCTORS SHALL BE PER DRAWINGS.
27. GROUND RODS SHALL BE COPPER CLAD STEEL, 5/8" ROUND AND 10' LONG. COPPERWELD OR APPROVED EQUAL.
28. METER SOCKET AMPERES, VOLTAGE, NUMBER OF PHASES SHALL BE AS NOTED ON THE DRAWINGS. MANUFACTURED BY SQUARE COMPANY OR APPROVED EQUAL.
29. ALL MATERIALS SHALL BE U.L. LISTED.
 - a. RIGID CONDUIT SHALL BE U.L. LABEL GALVANIZED ZINC COATED WITH ZINC INTERIOR AND SHALL BE USED WHEN INSTALLED IN OR UNDER CONCRETE SLABS, IN CONTACT WITH THE EARTH, UNDER PUBLIC ROADWAYS, IN MANSION WALLS OR EXPOSED ON BUILDING EXTERIOR RIGID CONDUIT IN CONTACT WITH CONCRETE OR EARTH SHALL BE 1/2" LAPPED WHEREVER WITH WIPES WIPES PROCESS NO. 3.
 - b. ELECTRICAL METALLIC TUBING SHALL HAVE U.L. LABEL. FITTINGS SHALL BE CLAMP RING COMPRESSION TYPE. EMT SHALL BE USED ONLY FOR INTERIOR RUNS.
 - c. FLEXIBLE METALLIC CONDUIT SHALL HAVE U.L. LISTED LABEL AND MAY BE USED WHERE PERMITTED BY CODE. FITTINGS SHALL BE "SWEET" OR "SOCKET" TYPE, SEAL TIGHT FLEXIBLE CONDUIT.
 - d. ALL UNDERGROUND CONDUIT SHALL BE PVC SCHEDULE 40 (UNLESS NOTED OTHERWISE) AT A MINIMUM DEPTH OF 24" BELOW GRADE, OR AS SHOWN.
30. ALL ELECTRICAL EQUIPMENT SHALL BE LABELED WITH PERMANENT ENGRAVED PLASTIC LABELS.
31. UPON COMPLETION OF WORK, CONDUCT CONTINUITY, SHORT CIRCUIT, AND FALL OF POTENTIAL GROUNDING TESTS FOR APPROVAL. SUBMIT TEST REPORTS TO PROJECT MANAGER CLEAR PROVED OF ALL DEFECTS RESULTING FROM WORK AND LEAVE WORK IN A COMPLETE AND UNBARRICADED CONDITION.
32. CONTRACTOR TO COORDINATE WITH UTILITY COMPANY FOR CONNECTION OF TEMPORARY AND PERMANENT POWER TO THE SITE, THE EQUIPMENT POWER AND ALL WORKUP COSTS TO BE PAID BY CONTRACTOR.

GENERAL ELECTRICAL NOTES

1. CONDUIT LAYOUT SHOWN ON THE PLANS ARE DIMENSIONAL, NOT INDICATING THE EXACT ROUTING REQUIRED. THE CONTRACTOR SHALL MAKE CORRECTIONS AS REQUIRED BY THE CONDITIONS OF INSTALLATION.
2. ALL EQUIPMENT PROVIDED BY THE ELECTRICAL CONTRACTOR SHALL BE LISTED AND LABELED BY A MANUFACTURER REPUTED TO BE RELIABLE, ACCEPTABLE TO THE AUTHORITY HAVING JURISDICTION, FOR THE CONDITIONS OF INSTALLATION.
3. SERVICE LOCATION PLANS ON THE DRAWINGS ARE APPROXIMATE. EXACT SERVICE LOCATIONS SHALL BE AS INDICATED ON THE ARCHITECTURAL PLANS OR AS DIMENSIONED. IF NOT SHOWN ON THE ARCHITECTURAL PLANS OR DIMENSIONED ON THE ELECTRICAL PLANS, EXACT LOCATION WITH THE ARCHITECT PRIOR TO POUR-IN.
4. ALL WIRE CENTS ARE TYPICAL UNLESS SHOWN BETWEEN LIGHT FIXTURES OR RECEPTACLES. PROVIDE ALL REQUIRED EXEMPTION WHERE NOT SHOWN.
5. WIRE SIZE IS NOT SHOWN ON THE DRAWINGS. CIRCUITS SHALL CONSIST OF #12 PHASE AND GROUND (INDUSTRIAL CONDUCTORS) AND A #12 CU GROUND IN 3/4" CONDUIT. ALL BRANCH CIRCUIT WIRE MUST BE IN CONDUIT.
6. UNLESS SPECIFICALLY NOTED OTHERWISE, THE ELECTRICAL CONTRACTOR SHALL MAKE FINAL CONNECTIONS TO ALL UTILITIES EQUIPMENT SHOWN ON THE DRAWINGS. VERIFY THE TYPE OF FINAL CONNECTION AND PROVIDE APPROPRIATE WIRING METHOD.
7. THE ELECTRICAL CONTRACTOR SHALL COORDINATE WITH GENERAL CONTRACTOR PRIOR TO UNDOING OR INSTALLATION OF ANY EQUIPMENT. THE CONTRACTOR WILL NOT BE COMPENSATED FOR COSTS ASSOCIATED WITH CHANGING THE ELECTRICAL SYSTEMS TO MATCH UTILITIES EQUIPMENT, THEN IF THE ELECTRICAL WORK IS INSTALLED PER THE ELECTRICAL DRAWINGS.
8. UNLESS SPECIFICALLY NOTED OTHERWISE, SYSTEMS PROVIDED OR INSTALLED BY THE ELECTRICAL CONTRACTOR SHALL BE COMPLETE AND FULL-FUNCTIONING AFTER INSTALLATION. COMPONENTS NOT SHOWN BUT REQUIRED FOR THE PROPER OPERATION OF THE EQUIPMENT OR SYSTEM SHALL BE PROVIDED AT NO ADDITIONAL COST TO THE PROJECT.
9. THE CONTRACTOR SHALL PERFORM ALL ACCEPTANCE TESTS REQUIRED OR RECOMMENDED BY EQUIPMENT MANUFACTURERS.
10. ALL PENETRATIONS IN WALLS SHALL BE SEALED WITH FLEXIBLE ACOUSTIC CAULKING. CAULKING SHALL BE APPLIED AROUND OUTLET BOXES TO PROVIDE A COMPLETE SEAL BETWEEN THE BOX AND THE WALL.
11. PRIOR TO TRENCHING IN ANY AREA, THE CONTRACTOR SHALL CONTACT ELECTRICAL, COMMUNICATIONS, DATA, CABLE TV, GAS, AND WATER UTILITY PROVIDERS (SEE STREET) AND HAVE ALL UTILITIES IN THE AREA IDENTIFIED. IN ADDITION, THE CONTRACTOR SHALL OBTAIN THE SERVICES OF A SUBCONTRACTOR SPECIALIZING IN THE LOCATION OF UNDERGROUND STRUCTURES TO IDENTIFY ANY OBSTACLES IN THE PATH OF TRENCHING PRIOR TO COMMENCING WORK. DAMAGE TO ANY UNDERGROUND STRUCTURES SHALL BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE PROJECT.
12. ALL ELECTRICAL WORK SHALL BE IN ACCORDANCE WITH LOCAL AND STATE CODES INCLUDING THE NEC.
13. CONTRACTOR SHALL CONTACT ENGINEER IN WRITING (BPI) PRIOR TO PROCEEDING WITH ANY WORK NOT CLEARLY SHOWN ON THESE CONTRACT DOCUMENTS. ENGINEER WILL NOT ACCEPT ANY RESPONSIBILITY FOR WORK HE HAS NOT SPECIFICALLY AUTHORIZED.
14. IN EVENT OF A DISCREPANCY BETWEEN THE SPECIFICATIONS AND A NOTE ON THE DRAWINGS, THE SPECIFICATIONS SHALL SUPERSEDE THE DRAWINGS.
15. ELECTRICAL CONTRACTOR TO COORDINATE WITH VENDOR FOR ALL EXACT REQUIREMENTS AND PROVIDE ALL CONDUIT, WIRING AND SERVICES AS REQUIRED.
16. ELECTRICAL CONTRACTOR TO FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO POUR-IN AND PROVIDE ALL NECESSARY MATERIALS FOR A COMPLETE INSTALLATION.
17. PROVIDE A #10 OR LARGER COPPER TRACER WIRE SECURELY ATTACHED TO THE NON-METALLIC CABLE, PIPE OR CONDUIT #1" AT 8' ON CENTER. IT SHALL HAVE 10' OF TRACER WIRE ACCESSIBLE ABOVE GRADE AT ANY ABOVE GRADE TERMINATION.
18. BLUE STAKE AREA PRIOR TO BEGINNING WORK.

SYMBOL LIST

(NOT ALL MAY BE USED)

ELECTRICAL SYMBOLS

- FLUORESCENT - STRIP FIXTURE, LIGHTS PER PLAN.
- FIXTURE - WALL-MOUNTED LIGHT FIXTURE.
- SOLID "X" OR "O" ANY FINISH INDICATES A FINISH WITH AN INTERNAL EMERGENCY POWER SUPPLY, PER THE SPECIFICATIONS.
- WIRE-MOUNTED LIGHT FIXTURE.
- SINGLE POLE DOUBLE SWITCH.
- PROTECT, 1" MOUNTED ON ROOF (UNLESS NOTED OTHERWISE).
- RAISED CONDUITANCE RECEPTACLE.
- "TOSS BLANK" OR ANY UNSPECIFIED DESIGNATED INTERNAL GROUND FAULT PROTECTION.
- DOUBLE RAISED (STAIRWELL) CONDUITANCE RECEPTACLE.
- JUNCTION BOX, "C" INDICATES CEILING MOUNTED, "F" INDICATES FLOOR MOUNTED (STAIRWELLS ARE TYPICAL FOR ALL SENSES).
- FUSIBLE DISCONNECT SWITCH (FURNISHED AND INSTALLED BY THE ELECTRICAL CONTRACTOR UNLESS NOTED OTHERWISE, USE AND FUSED AS PER RECOMMENDATIONS OF EQUIPMENT'S MANUFACTURER OR AS NOTED 20A, 30, 50, 200V, UNLESS NOTED OTHERWISE, (A) INDICATES NON-PHASE).
- ELECTRICAL, MISC. SEE DRAWINGS FOR SIZE.
- DIRECTION PANELBOARD, METER CENTER OR SERVICE ENTRANCE SECTION. SEE DRAWINGS FOR EXACT TYPE.
- DISCONNECT TRANSFORMER.
- SURFACE MOUNTED PANEL BOARD.
- TELEPHONE MOUNTING BOARD.
- FLUSH MOUNTED PANEL BOARD.
- TEXT "WALL" AROUND ROD.
- GROUND ROD - 5/8" x 10' COPPER CLAD.
- CABLED CONNECTION.
- METHEOLOGICAL CONNECTION.
- GROUND WIRE.
- GROUND BUS.
- SLACK SUPPRESSOR CROWD BAR.
- OPS AVENUE.
- ELECTRICAL POWER.
- T-1 LINE.

WIRE AND CONDUIT

- FLEXIBLE CONDUIT.
- CONDUIT CONCEALED IN WALLS OR UNDER CEILING 1/2" (R1) #12 OR 5/8" C, UNLESS NOTED OTHERWISE.
- CONDUIT MOUNTED UNDER FLOOR OR BELOW GRADE 1/2" (R1) #12 OR 5/8" C, UNLESS NOTED OTHERWISE.
- CONDUIT RUNNING UP.
- CONDUIT RUNNING DOWN.

1-LINE DIAGRAM

- CIRCUIT BREAKER, FUSED MOUNTED.
- CIRCUIT BREAKER, DRAGGENT MOUNTING.
- FUSIBLE SWITCH, SIZE AS INDICATED ON DRAWINGS.
- TRANSFORMER, SEE ONE-LINE FOR TYPE AND SPECIFICATIONS.
- CURRENT TRANSFORMER.
- METERING DEVICE.
- PANELBOARD, MAIN BUS ONLY.
- PANELBOARD, MAIN CIRCUIT BREAKER.
- TRANSFER SWITCH - MANUAL OR AUTOMATIC.
- INDICATES A FEED-THROUGH LUG CONNECTION.
- CONDUIT WITH INTERNAL PROTECTION.

SHEET INDEX

E1	GENERAL NOTES / LEGENDS / SHEET INDEX
E2	POWER PLANS
E3	GROUNDING PLAN / ONE-LINE & CALC'S

ABBREVIATIONS

CAL	= CONTACT ONLY
PLC	= SEPARABLE 40 PLASTIC CONTACT
MSC	= SEALED RING CONTACT
MSB	= MOUNTED
WS	= WEATHERPROOF
USA	= UNLESS OTHERWISE NOTED
G. OR GND.	= GROUND
N. OR NEUT.	= NEUTRAL
E. OR ELEC.	= ELECTRICAL
PH	= PHASE
SW	= SWITCH
SP. OR SP.	= MOTORPOWER
TRN	= TRANSFORMER
CA	= CIRCUIT BREAKER
CEL	= CIRCUIT
SW	= SWITCH
FA	= FIRE ALARM
RECF	= RECEPTACLE
EC	= ELECTRICAL CONTRACTOR
GC	= GENERAL CONTRACTOR
SP. 1/2" @ 2'	= SHORT POLE, TWO POLE & THREE POLE
BB	= EQUIPMENT GROUND BUS
SB	= SHIELD BUSHING
AV	= AVAILABLE FAULT CURRENT
MS	= METHEOLOGICAL CONNECTION
TP	= TELEPHONE
AVE	= AVERAGE
MS	= METHEOLOGICAL CONNECTION
DF	= DIELECTRIC
DNC	= DRAWING
BFS	= BASIC TRANSFORMATION SYSTEM
ODN	= OPERATOR
MS	= METHEOLOGICAL CONNECTION
SCF	= INSULATED STRANDED COPPER WIRE

CLIENT

126 W. GEMINI DR.
TEMPE, AZ 85283

INTERNAL REVIEW _____ DATE _____

CONSTRUCTION SIGNATURE _____

RF SIGNATURE _____

FACILITIES SIGNATURE _____

REAL ESTATE SIGNATURE _____

PLANS PREPARED BY _____

F & FRANK ASSOCIATES, INC.
CONSULTING ENGINEERS

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NO.	DATE	DESCRIPTION
1	11/09/18	SUBMITTAL

ARCHITECTS JOB NO. YDC-4887

PROJECT INFORMATION

TUC_IRONWOOD HILL

2955 W. IRONWOOD HILL DRIVE
TUCSON, ARIZONA, 85745

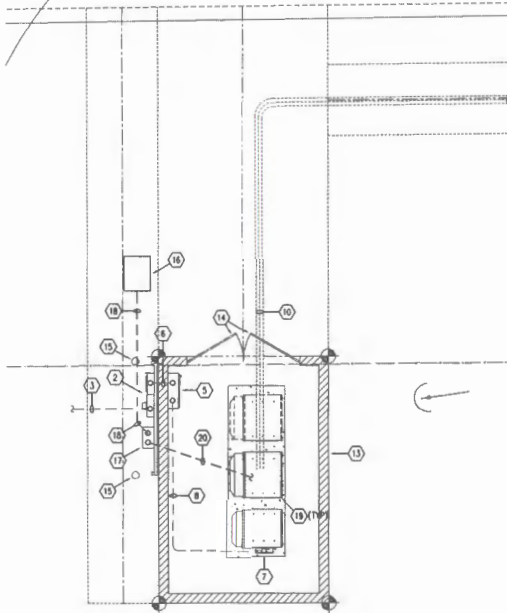
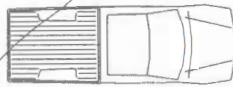
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TITLE SHEET

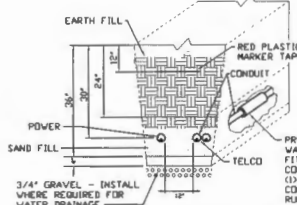
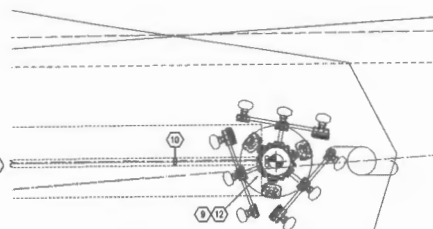
JURISDICTION APPROVAL

SHEET NUMBER

E-1



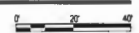
2 ENLARGED POWER PLAN
SCALE: 1/4" = 1'-0"



INSTALLATION OF UNDERGROUND CONDUITS
NO SCALE



1 SITE POWER PLAN
SCALE: 1" = 20'-0"



GENERAL NOTES

- ELECTRICAL CONTRACTOR TO COORDINATE WITH VERIZON FOR ALL EXISTING CONDUITS PRIOR TO ROUGH-IN AND PROVIDE ALL CONDUITS, WIRING AND DEVICES AS REQUIRED.
- ELECTRICAL CONTRACTOR TO FIELD VERIFY ALL EXISTING CONDUITS PRIOR TO ROUGH-IN AND PROVIDE ALL NECESSARY MATERIAL FOR A COMPLETE INSTALLATION.
- PROVIDE #14 OR LARGER COPPER TRACER WIRE SECURELY ATTACHED TO U.S. NON-METALLIC CABLE PIPE OR CONDUIT AT 8'-0" ON CENTER. IT SHALL HAVE 1" OF TRACER WIRE ACCESSIBLE ABOVE GRADE AT ANY ABOVE GRADE TERMINATION FOR HISTORY STATE STATUTE.
- BLUE STAKE AREA PRIOR TO BEGINNING WORK.

KEYED NOTES

- EXISTING TEP SECONDARY SPICE BOX SERVICE TO BE FED FROM EXISTING 375/240V, 120/240V, 3Ø TEP UTILITY TRANSFORMER. COORDINATE EXACT LOCATION WITH UTILITY.
- FURNISH AND INSTALL NEW H-FRAME MOUNTED 200A, 120/240V, 1Ø, 3Ø SERVICE METER/CONNECT PER TEP COORDINATION PLANS. COORDINATE EXACT LOCATION WITH TEP PRIOR TO WORK.
- PROVIDE 2-1/2" RED WIRE RBG CONDUIT 420' WITH 3/4" OF CONDUIT EXEMPT FROM EXISTING TEP SECONDARY SPICE BOX TO NEW SERVICE METER/CONNECT PER TEP SPECIFICATIONS. USE TRAFFIC SALED PULL BOXES WHERE NECESSARY. CONDUCTORS SHALL BE BY UTILITY. COORDINATE WITH UTILITY.
- RADIUS BONES SHALL BE SET PER TEP SPECIFICATIONS.
- FURNISH AND INSTALL NEW WALL MOUNTED 200 AMP, 2-POL, 240V NEUTRAL LOAD CENTER (CONTAINS BOTH POWER PANEL AND AUTOMATIC TRANSFER SWITCH) WITH SOLID NEUTRAL AND NEUA-3Ø ENCLOSURE. SEE ONE-LINE DIAGRAM ON SHEET E-3 FOR FEEDER INFORMATION.
- NEW FACTORY MOUNTED 125A/2P, 120/240V, 1Ø, 3Ø PANEL 'C' WITH EQUIPMENT CABINET. COORDINATE EXACT REQUIREMENTS PRIOR TO ROUGH-IN. SEE ONE-LINE DIAGRAM ON SHEET E-3.
- PROVIDE 1-1/2" CONDUIT 41' WITH 2" OF COVER FROM E.C. TO CABINET PANEL 'C'. SEE ONE-LINE DIAGRAM ON SHEET E-3 FOR ADDITIONAL INFORMATION.
- NEW LESSEE ANTENNA ARRAY, (3) SECTIONS WITH (3) ANTENNAS PER SECTION MOUNTED TO NEW REPLACEMENT TEP UTILITY POLE.
- NEW LESSEE 4" SCHEDULE 40 PVC UNDERGROUND CONDUIT 235' WITH 2" OF COVER FOR COAX ROUTE AND #14 SOLID COPPER TRACER WIRE WITHIN LESSEE COAX CASKET. FROM EQUIPMENT CABINET TO REPLACEMENT UTILITY POLE. VERIFY PRIOR TO BEGINNING.
- ROUTING OF (4) 6" SCHEDULE 40 PVC UNDERGROUND CONDUIT HAS BEEN OBTAINED DUE TO LARGE DRAINAGE AT THIS SCALE. REFER TO SITE POWER PLAN ON THIS SHEET FOR COMPLETE ROUTE.
- EXISTING TEP UTILITY POLE IS SCHEDULED TO BE REMOVED AND REPLACED BY NEW UTILITY POWER POLE.
- NEW LESSEE 6'-0" HIGH MASTERY SCREEN WALL. SEE ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
- NEW LESSEE TUBE STEEL ACCESS GATES WITH PAINTED SOLID METAL BACKING. SEE ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
- NEW CONCRETE-FILLED STEEL BOLLARD (TYPICAL OF 3).
- NEW 24" x 36" TRAFFIC SALED FIBER REINFORCED POLYESTER CONDUIT ACCESS GATES WITH UTILITY PRIOR TO INSTALLATION.
- NEW LESSEE H-FRAME MOUNTED NEUA-4 FIBER BOX BY GC. COORDINATE EXACT LOCATION WITH LESSEE PRIOR TO INSTALLATION.
- NEW LESSEE (1) 4" SCHEDULE 40 PVC UNDERGROUND CONDUIT WITH (3) 1-1/2" INTERLUCK #14 SOLID COPPER TRACER WIRE & PULLSTRING 1.00' MOUNTED WITHIN LESSEE UTILITY CASSETTE FROM NEW LESSEE FIBER REINFORCED POLYESTER CONDUIT ACCESS GATES. COORDINATE ROUTING AND ADDITIONAL REQUIREMENTS WITH LESSEE PRIOR TO CONSTRUCTION.
- NEW EQUIPMENT CABINETS. COORDINATE EXACT LOCATION WITH LESSEE PRIOR TO INSTALLATION. (TYPICAL OF 3)
- PROVIDE (1) 4" SCHEDULE 40 PVC UNDERGROUND CONDUIT WITH (3) 1-1/2" INTERLUCK #14 SOLID COPPER TRACER WIRE & PULLSTRING 1.00' FROM NEW LESSEE FIBER BOX TO EQUIPMENT CABINET. COORDINATE ROUTING AND ADDITIONAL REQUIREMENTS WITH LESSEE PRIOR TO CONSTRUCTION.



POWER COMPANY: TUCSON ELECTRIC POWER
 REPRESENTATIVE: FREDERICK BIRM @ AZ WEST BUILDERS AND CONCRETE
 TELEPHONE: 802-978-9207

FIBER COMPANY:
 REPRESENTATIVE:
 TELEPHONE:

SUBMIT DRAWINGS TO UTILITY COMPANY REPRESENTATIVE AS REQUIRED. PRE CONSTRUCTION MEETING REQUIRED.

CLIENT

verizon
 126 W. GEMINI DR.
 TEMPE, AZ 85283

INTERNAL REVIEW _____ DATE _____

CONSTRUCTION SIGNATURE _____

RF SIGNATURE _____

FACILITIES SIGNATURE _____

REAL ESTATE SIGNATURE _____

PLANS PREPARED BY _____

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VESA Project Number: 10889_118

SEAL

DAVID J. FRANK
 ENGINEER
 LICENSE NO. 10889
 STATE OF ARIZONA

NO.	DATE	DESCRIPTION
1	11/06/18	SUBMITTAL

ARCHITECTS JOB NO. YDC-4887

PROJECT INFORMATION

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SHEET TITLE

POWER PLAN

JURISDICTION APPROVAL

SHEET NUMBER

E-2

