

DEVELOPMENT REVIEW BOARD REPORT



Meeting Date: September 15, 2016 Item No. 3
General Plan Element: *Public Services and Facilities*
General Plan Goal: *Encourage provision of power and communication systems that match the character of Scottsdale and provide reliable, efficient service for Scottsdale citizens, visitors, and businesses.*

ACTION

Verizon PHO Windy Antenna Replacement 116-DR-2006#4

Location: 33016 N. 60th St.

Request: Request approval of the modification of an existing wireless communication facility (WCF), including the removal of 3 existing antennas and installation of 6 new long-term evolution (LTE) antennas, on a football field light pole at Cactus Shadows High School.

OWNER

Cave Creek Unified School District
480-415-2050

ARCHITECT/DESIGNER

KDC Architects

ENGINEER

Tower Engineering Professionals

APPLICANT CONTACT

Ryan Rawson
In-Commercial Communications for Verizon
602-550-5700

BACKGROUND

Zoning

This site is zoned Single-family Residential, Environmentally Sensitive Lands (R1-43 ESL), which allows single family homes, schools, and wireless communication facilities, among other uses.

Context

This site is located on a school campus of the Cave Creek Unified School District near the northwest corner of E. Dove Valley Road and N. 60th Street.

Adjacent Uses and Zoning

- North Los Alisos single-family residential subdivision, zoned R1-10 ESL.
- South School campus, zoned R1-43 ESL
- East School campus, zoned R1-43 ESL
- West School campus athletic fields, zoned R1-43 ESL

Key Items for Consideration

- Increase the number of antennas at an existing football field light pole mounted WCF from 3 to 6 to provide additional wireless communication service capacity.

DEVELOPMENT PROPOSAL

Goal/Purpose of Request

Verizon is proposing to upgrade their existing WCF antennas, which are co-located on an existing 81-foot-tall ball field light pole at the athletic fields of Cactus Shadows High School to provide additional capacity to this area. This WCF has been in existence since 1996, and contains a total of 3 antennas (one per sector). The request is to remove the existing antennas and add a total of 6 new antennas (two per sector) mounted at the 62-foot height level of the ball field light pole.

The proposed antennas dimensions at the 62-foot level are approximately 50-inches-long by 12-inches-wide, with the exception of the northeast facing sector, which will have 2-foot-wide antennas. All antennas and mounting hardware are stipulated to be painted to match the color of the ball field light pole. Staff is also requesting that Verizon utilize back-fed cable antennas or if bottom-fed, install a shroud to limit the amount of exposed coaxial cable.

No visible changes are proposed to the associated ground mounted equipment, which is located underneath the bleachers.

Neighborhood Involvement

July 21, 2016: The applicant mailed neighborhood notifications about the antenna upgrade to property owners within 750 feet.

July 22, 2016 – August 15, 2016: A notification about this Verizon proposal was placed on the front page of the Cactus Shadows High School web site.

August 22, 2016: City staff mailed application submittal notification postcards to property owners within 750 feet.

As of the drafting of this report, staff has not received any correspondence regarding this application.

STAFF RECOMMENDATION

Recommended Approach:

Staff recommends that the Development Review Board approve case 116-DR-2006#4 per the attached stipulations.

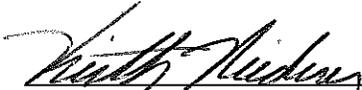
RESPONSIBLE DEPARTMENT

Planning and Development Services
Current Planning Services

STAFF CONTACT

Keith Niederer
Senior Planner
480-312-2953
E-mail: kniederer@ScottsdaleAZ.gov

APPROVED BY



Keith Niederer, Report Author

9-7-2016

Date

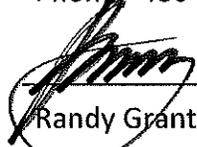


Steve Venker, Development Review Board Coordinator

Phone: 480-312-2831 E-mail: svenker@scottsdaleaz.gov

9/7/16

Date



Randy Grant, Director

Planning and Development Services

480-312-2664, rgrant@scottsdaleaz.gov

9/8/16

Date

ATTACHMENTS

- A. Stipulations/Zoning Ordinance Requirements
- 1. Applicant's Narrative
- 2. Context Aerial
- 2A. Close-Up Aerial
- 3. Zoning Map
- 4. Existing Photos
- 5. Photo Simulation
- 6. Plans
- 7. Neighborhood Notification Letter from applicant
- 8. City Notification Map

**Stipulations for the
Development Review Board Application:
Verizon PHO Windy Antenna Replacement
Case Number: 116-DR-2006#4**

These stipulations are intended to protect the public health, safety, welfare, and the City of Scottsdale.

APPLICABLE DOCUMENTS AND PLANS:

1. Except as required by the Scottsdale Revised Code, the Design Standards and Policies Manual (DSPM), and the other stipulations herein, the site design and construction shall substantially conform to the following documents:
 - a. Architectural elements, including dimensions, materials, form, color, and texture shall be constructed to be consistent with the building elevations submitted by Tower Engineering Professionals and Verizon Wireless, with a city staff date of 8/19/2016.
 - b. The location and configuration of all site improvements shall be consistent with the site plan submitted by Tower Engineering Professionals and Verizon Wireless, with a city staff date of 8/19/2016.

ARCHITECTURAL DESIGN:

Ordinance

- A. Antennas shall be mounted no more than two feet from the face of the light pole.

DRB Stipulations

2. Antennas, mounting hardware, and shrouds shall be painted to match the color of the ball field light pole.
3. If coaxial cables are fed into the bottom of the antennas, they shall be concealed by a shroud.
4. Vertical pipe mounts shall be trimmed to match the height of the antennas.
5. With the final plans submittal, the applicant shall submit a coaxial cable plan showing the locations of the coaxial cable between the pole ports and antennas/radio equipment.

ADDITIONAL ITEMS:

DRB Stipulations

6. Prior to any construction, the contractor shall schedule a pre-construction meeting with Inspection Services by calling 480-312-5750. This note shall appear on the plans.



Verizon PHO Windy Antenna Replacement

116-DR-2006#4



Q.S.
57-41

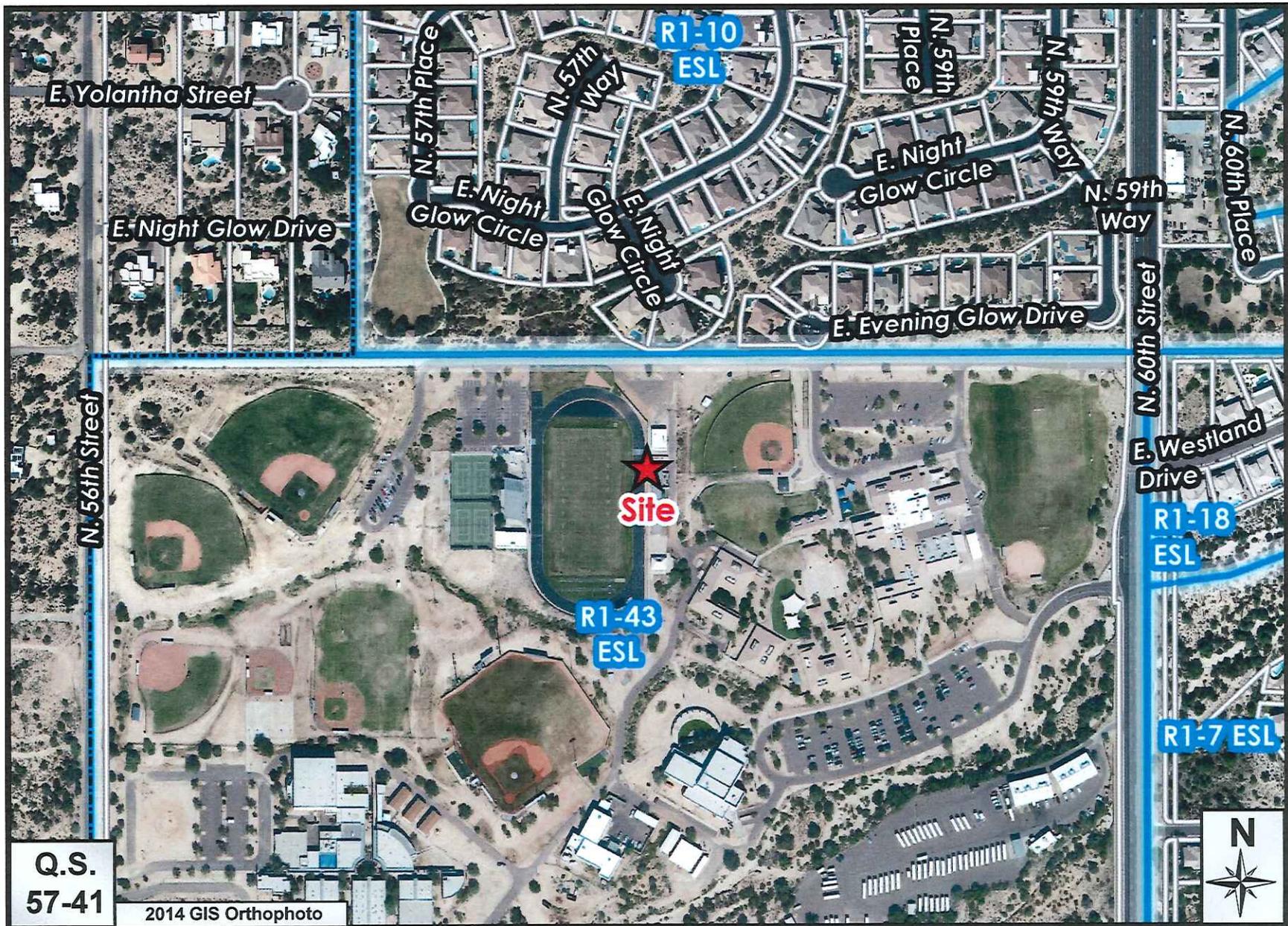
Google Earth Pro Imagery



Verizon PHO Windy Antenna Replacement

116-DR-2006#4

ATTACHMENT #2A



Verizon PHO Windy Antenna Replacement

116-DR-2006#4



ATTACHMENT #4



In Command Communications
Phone: (602) 550-6500
Fax: (623) 218-1302

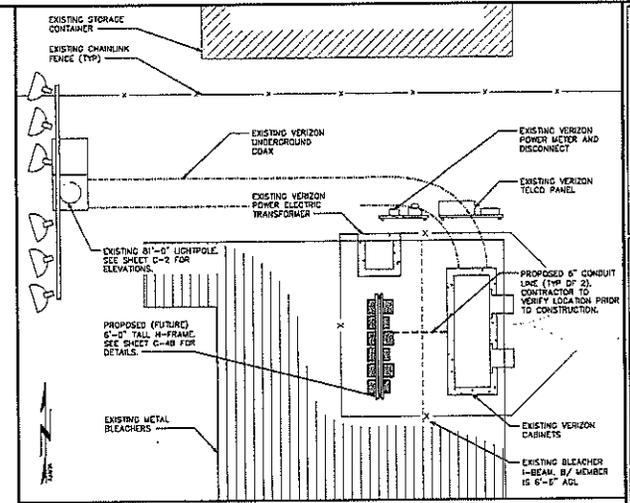
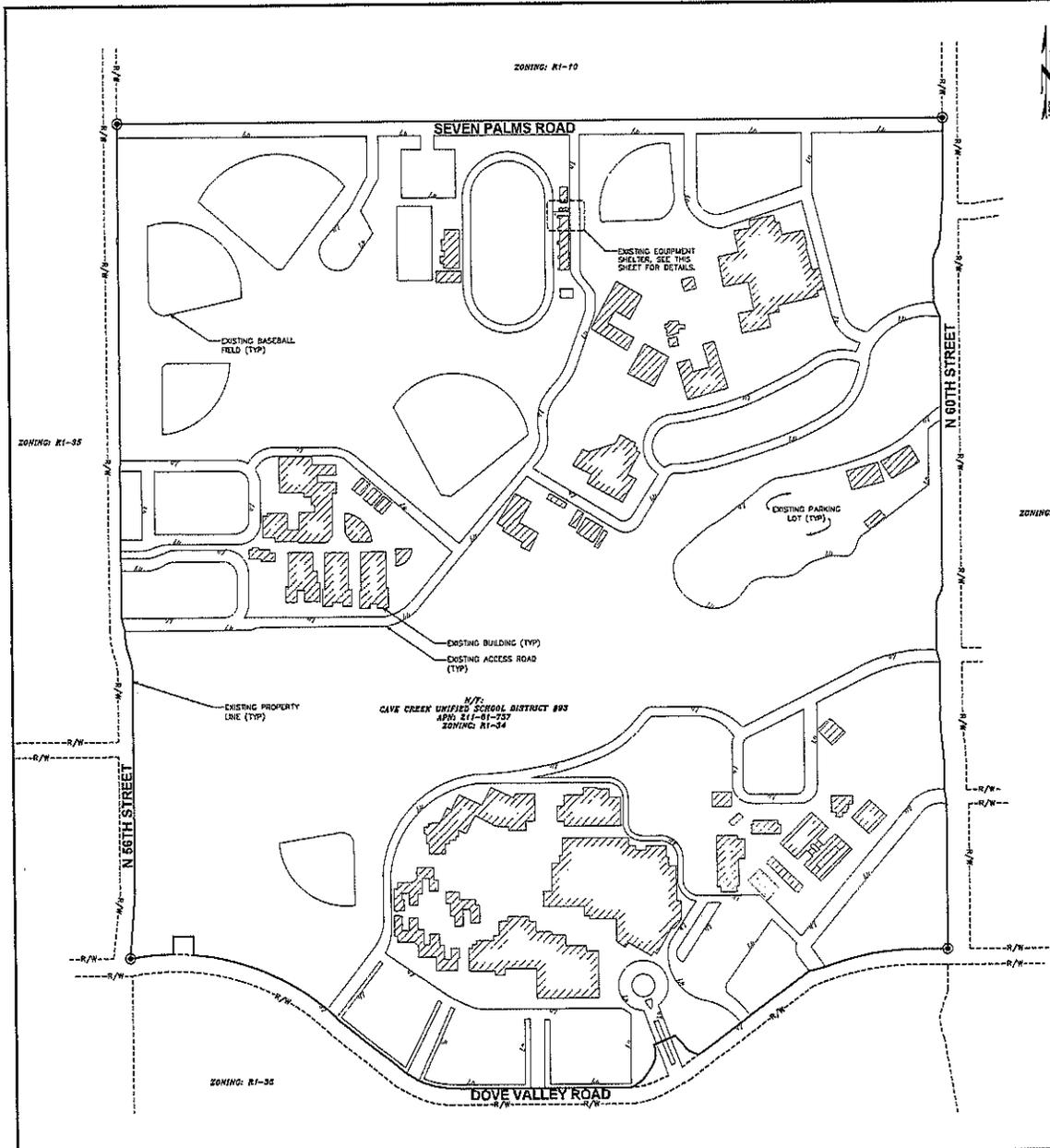
Project: PHO Windy- 33016 N. 60th St.
Scottsdale, AZ 85266
Photo Simulation

Existing Site View



Proposed Design





LEGEND

- EXIST. PROPERTY LINE
- EXIST. UTILITY POLE
- EXIST. TELCO PEDESTAL
- ⊙ PROPERTY CORNER
- 200--- EXIST. CONTOUR LINE
- EDGE OF PAVEMENT
- OVERHEAD WIRE
- R/W --- RIGHT-OF-WAY
- CHAIN LINK FENCE
- EXISTING TREE LINE

NOTES:

1. SITE PLAN SHOWN BELOW TAKEN FROM INFORMATION PROVIDED BY MARICOPA COUNTY ZONING CONTRACTOR TO VERIFY ALL EXISTING INFORMATION IS AS INDICATED ON SITE PLAN. CONTRACTOR IS TO ESTABLISH THE EXISTENCE AND LOCATION OF ALL EXISTING OVERHEAD AND UNDERGROUND UTILITIES. IMMEDIATELY NOTIFY THE CONSTRUCTION MANAGER OF ANY DISCREPANCIES.

2. EXISTING INFORMATION INDICATED ON THE SITE PLAN WAS REPRODUCED FROM MAPS TAKEN FROM MARICOPA COUNTY PCS. TOP DECS NOT GUARANTEED, OR ENSURE THE PRECISION, ACCURACY, OR COMPLETENESS AND ASSUME NO RESPONSIBILITY OR LIABILITY FOR DAMAGES, LOSS OF REVENUE, OR INJURY THAT MIGHT OCCUR. THE INFORMATION SUPPLIED BY THE CUSTOMER WAS INCORPORATED FOR REFERENCE ONLY.

SITE PLAN
SCALE: 1" = 120'

0 120 240
SCALE IN FEET

VERTIZON wireless
178 WEST GAVELINE
OPTICAL (480) 343-5400

PLANS PREPARED FOR:

INTERDEPENDENT PROFESSIONALS
PHO WINDY PCS
35018 N 60TH STREET
CAVE CREEK, AZ 85331
OFFICE (602) 666-4333
FAX (602) 666-6330

PLANS PREPARED BY:

REV	DATE	ISSUED FOR	DRAWN BY	CHECKED BY
1	05-10-15	CONSTRUCTION		
2	05-05-16	PERMITS		

PHO WINDY PCS
35018 N 60TH STREET
CAVE CREEK, AZ 85331
(MARICOPA COUNTY)

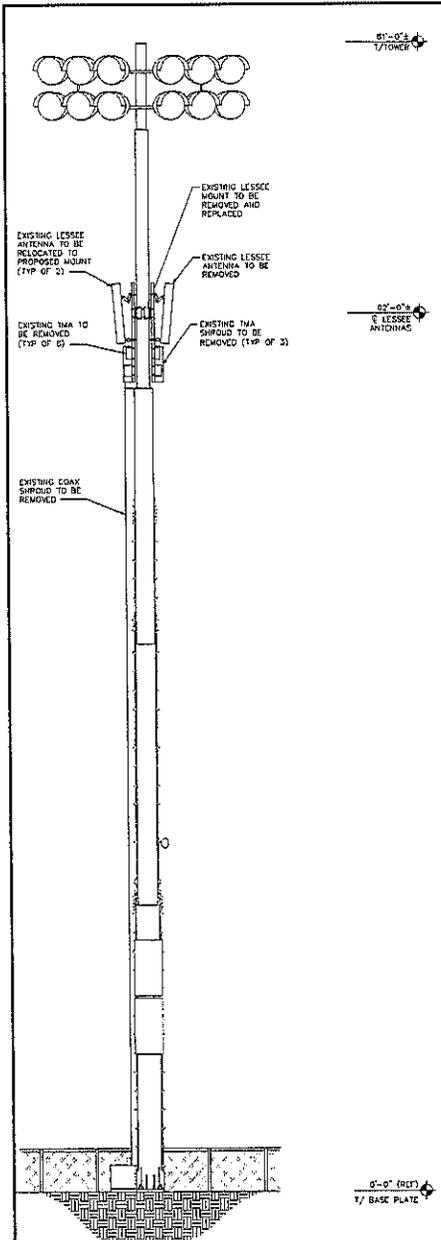
PROJECT INFORMATION

SCALE

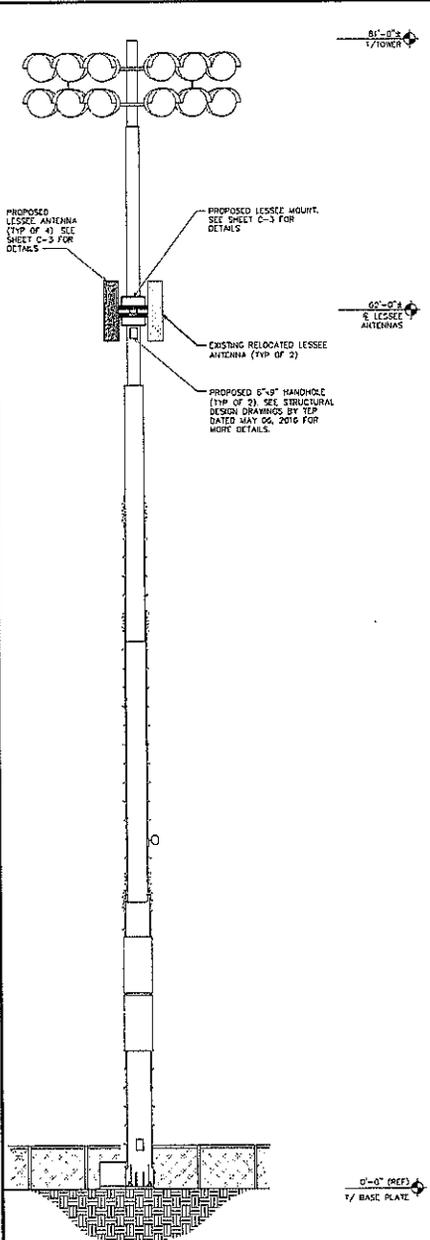
SITE PLAN & COMPOUND LAYOUT

SHEET NUMBER: 1
REVISIONS: 1
TOP: 8/30/2015 7:03:53

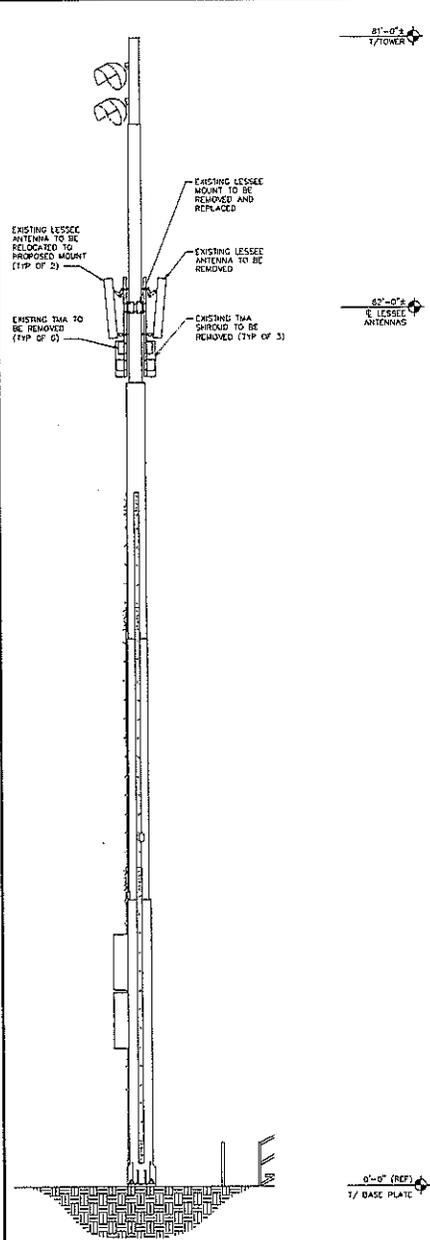
C-1



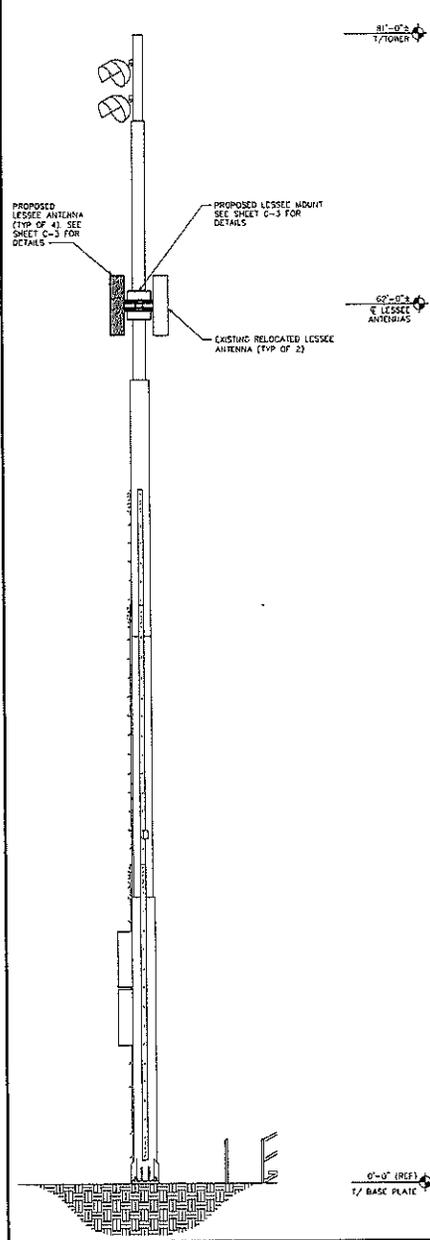
EXISTING WEST TOWER ELEVATION
SCALE: X" = 1'-0"



PROPOSED WEST TOWER ELEVATION
SCALE: X" = 1'-0"



EXISTING SOUTH TOWER ELEVATION
SCALE: X" = 1'-0"



PROPOSED SOUTH TOWER ELEVATION
SCALE: X" = 1'-0"

PLANS PREPARED FOR:

Verizon Wireless
198 WEST OGDEN DRIVE
OGDEN, UTAH 84403-3000

PLANS PREPARED BY:

TOWER ENGINEERING PROFESSIONALS
12510 HIGHLAND PARKWAY
PUEBLO, COLORADO 81001
PHONE: (303) 426-1800
FAX: (303) 426-1801

NO.	REV.	DATE	ISSUED FOR	DESIGNED BY:
1	07-10-15	05-20-15	PERMITS	DM
0	05-20-15			

PROJECT INFORMATION:

PHO WINDY PCS
3404 N 40TH STREET
CANTON, AZ 85301
(GAVAZO COUNTY)

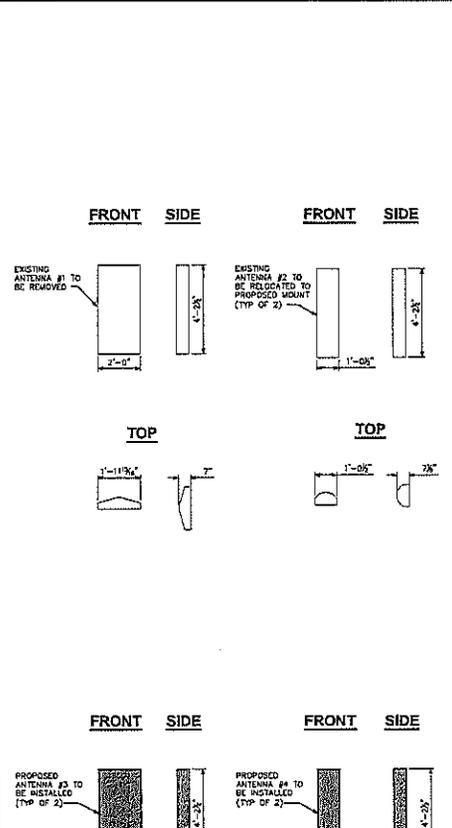
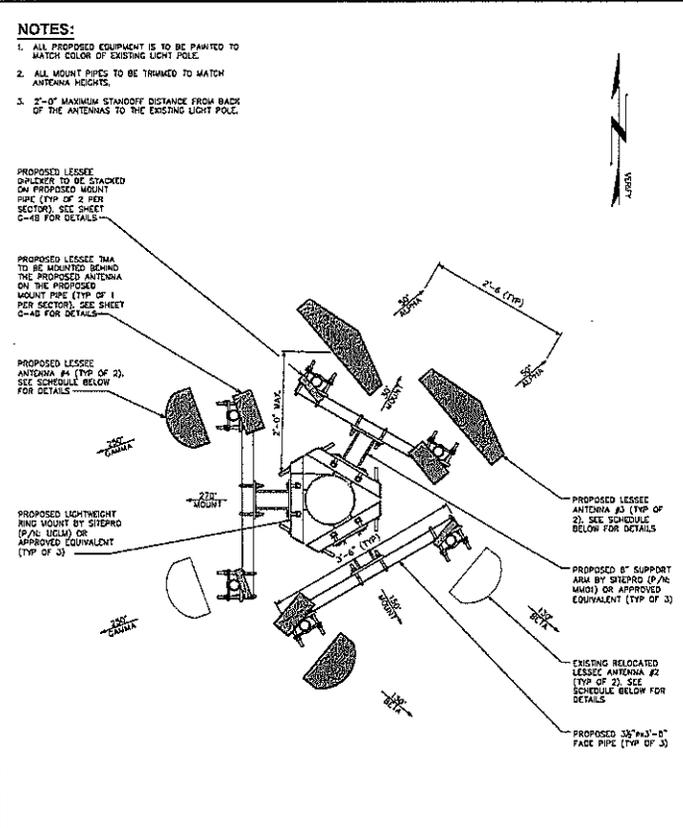
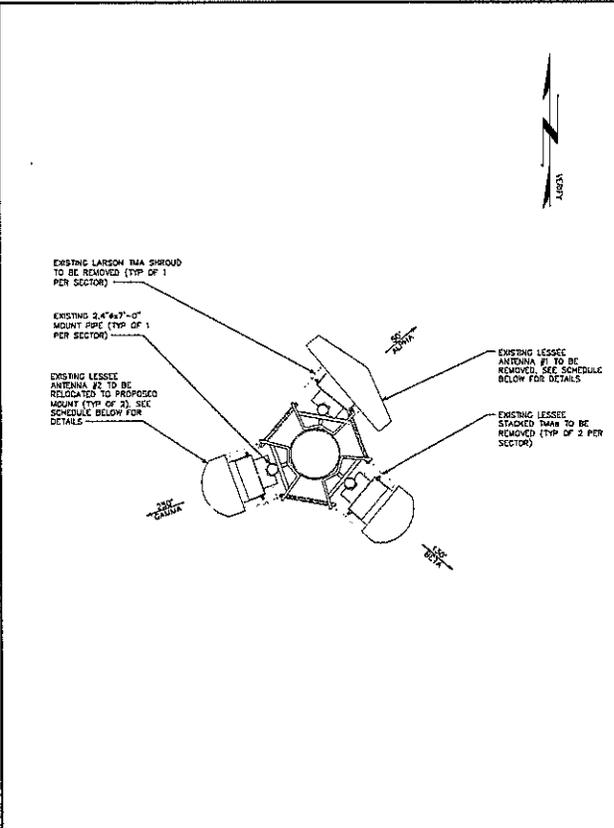
2011
Professional Engineer
No. 10000
State of Arizona

SEAL

SHEET NUMBER: **C-2**

REVISION: 1

TEP 12/20/17/1525



- NOTES:**
1. ALL PROPOSED EQUIPMENT IS TO BE PAINTED TO MATCH COLOR OF EXISTING LIGHT POLE.
 2. ALL MOUNT PIPES TO BE TRIMMED TO MATCH ANTENNA HEIGHTS.
 3. 2'-0" MAXIMUM STANDOFF DISTANCE FROM BACK OF THE ANTENNAS TO THE EXISTING LIGHT POLE.

EXISTING ANTENNA/COAX SCHEDULE										
POSITION	SECTOR	USE	MANUFACTURER (MODEL #)	MOUNTING HEIGHT	COAX SIZE	AZIMUTH (TN)	COAX LENGTH	MISC/D-TILT	ELEC. D-TILT	TMA
1	ALPHA	CELL (B)/LTE 700/AWS	ANTENNA #1	6' 0" 62°	(2) AYA5-50 1/2"	50°	-	5'	0°/0'	1
2	ALPHA	-	-	-	(2) LDF4-50A 1/2"	-	-	-	-	1
3	ALPHA	-	-	-	-	-	-	-	-	-
4	ALPHA	-	-	-	-	-	-	-	-	-
1	BETA	CELL (B)/LTE 700/AWS	ANTENNA #2	6' 0" 62°	(2) AYA5-50 1/2"	130°	-	8'	4°/0'	1
2	BETA	-	-	-	(2) LDF4-50A 1/2"	-	-	-	-	1
3	BETA	-	-	-	-	-	-	-	-	-
4	BETA	-	-	-	-	-	-	-	-	-
1	GAMMA	CELL (B)/LTE 700/AWS	ANTENNA #2	6' 0" 62°	(2) AYA5-50 1/2"	250°	-	9'	4°/0'	1
2	GAMMA	-	-	-	(2) LDF4-50A 1/2"	-	-	-	-	1
3	GAMMA	-	-	-	-	-	-	-	-	-
4	GAMMA	-	-	-	-	-	-	-	-	-

* ANTENNA DESIGN BASED ON INFORMATION PROVIDED BY VERIZON WIRELESS IN THE FORM OF A SAR DATED APRIL 30, 2015.
 ** CONTRACTOR TO VERIFY EXISTING COAX LENGTH.

PROPOSED ANTENNA/COAX SCHEDULE												
POSITION	SECTOR	USE	MANUFACTURER (MODEL #)	MOUNTING HEIGHT	COAX SIZE	AZIMUTH (TN)	COAX LENGTH	MISC/D-TILT	ELEC. D-TILT	RRH	TMA	DIP
1	ALPHA	850B/PCS D	ANTENNA #3	6' 0" 62°	(2) AYA5-50 1/2"	50°	-	5'	0°/0'	-	-	2
2	ALPHA	U700C/AWS	ANTENNA #3	6' 0" 62°	(2) LDF4-50A 1/2"	50°	-	5'	0°/0'	-	1	-
3	ALPHA	-	-	-	-	-	-	-	-	-	-	-
4	ALPHA	-	-	-	-	-	-	-	-	-	-	-
1	BETA	850B/PCS D	ANTENNA #2	6' 0" 62°	(2) AYA5-50 1/2"	130°	-	8'	4°/0'	-	-	2
2	BETA	U700C/AWS	ANTENNA #4	6' 0" 62°	(2) LDF4-50A 1/2"	130°	-	8'	4°/0'	-	1	-
3	BETA	-	-	-	-	-	-	-	-	-	-	-
4	BETA	-	-	-	-	-	-	-	-	-	-	-
1	GAMMA	850B/PCS D	ANTENNA #2	6' 0" 62°	(2) AYA5-50 1/2"	250°	-	9'	4°/0'	-	-	2
2	GAMMA	U700C/AWS	ANTENNA #4	6' 0" 62°	(2) LDF4-50A 1/2"	250°	-	9'	4°/0'	-	1	-
3	GAMMA	-	-	-	-	-	-	-	-	-	-	-
4	GAMMA	-	-	-	-	-	-	-	-	-	-	-

* ANTENNA DESIGN BASED ON INFORMATION PROVIDED BY VERIZON WIRELESS IN THE FORM OF A SAR DATED APRIL 30, 2015.
 ** CONTRACTOR TO VERIFY PROPOSED COAX LENGTH BEFORE INSTALLATION.

EXISTING ANTENNA MOUNT DETAILS AT 62'-0"
 SCALE: 1" = 1'-0"

PROPOSED ANTENNA MOUNT DETAILS AT 62'-0"
 SCALE: 1/2" = 1'-0"

ANTENNA DETAILS
 SCALE: N.T.S.

PLANS PREPARED FOR:

128 WEST CASHA DRIVE
 OFFICE (405) 248-9999

PLANS PREPARED BY:

250 TRIVOLI ROAD
 SUITE 100
 BLUE SPRING
 OFFICE (409) 661-6330
 FAX (409) 661-6330

NO.	DATE	DESCRIPTION	ISSUED FOR	DRAWN BY	CHECKED BY
1	01-10-16	CONSTRUCTION			
0	05-25-16	PRELIMINARY			
REV	DATE	DESCRIPTION	ISSUED FOR	DRAWN BY	CHECKED BY

PROJECT INFORMATION:

PHO WINDY PCS

3406 N. 80TH STREET
 LAWRENCE, KS 66044

SHEET TITLE: **ANTENNA INFORMATION**

SHEET NUMBER: **1**

TOP: P.33001-11.030

C-3



PUBLIC NOTIFICATION LETTER

Dear Property Owner:

Verizon Wireless is requesting Development Review Board approval from the City of Scottsdale to modify its equipment on the existing wireless communication facility (WCF) located in your community.

LOCATION: 33016 N. 60th Street, Scottsdale, AZ 85266 - Stadium light pole at Cactus Shadows High School.

ZONING DESIGNATION: R1-43

DESCRIPTION OF PROPOSAL: Verizon Wireless is proposing to add (3) panel antennas, replace (1) of (3) existing panel antennas, and add ancillary equipment at the 62' centerline of the 81' stadium light pole.

The proposed antenna modification will pose a very limited visual impact to the surrounding community. The new antennas are identical in size to the existing antennas. The antenna mounts will extend no more than 2' from the face of the pole. The proposed ancillary equipment will be hidden behind the antennas. The feed line coax will be hidden behind the existing painted metal shroud and the new antennas will be painted to match the color of the existing pole and antennas.

This notice is being sent to you because the property listed in your name is located within 750 feet of the WCF noted above. This notice is to inform you of the application and to provide you with an opportunity to relay any questions, issues or concerns regarding this application (see contacts listed below).

The proposed WCF will provide high quality and reliable service to Verizon Wireless customers, commuters, residents, businesses, and first responders. Verizon Wireless is committed to developing the best wireless system for its customers while working cooperatively with the City of Scottsdale and the local community to minimize the visual impact of wireless infrastructure. Verizon Wireless is pleased to have the opportunity to continue to provide communication capabilities to your community.

Enclosed you will find a copy of the proposed WCF site plan.

Sincerely,

Ryan Rawson
AUTHORIZED AGENT: In Command Communications, LLC

CONTACT PERSON: Ryan Rawson- (602) 550-5700 ryanrawson@iccommunications.net

CITY of SCOTTSDALE PLANNER/COORDINATOR: Keith Niederer- 480-312-2953 –
kniederer@scottsdaleaz.gov

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[Extracurricular](#)

[District/Schools](#)

An Excelling School!

Cactus Shadows

HIGH SCHOOL



Physical Address:
5802 East Dove Valley Road
Scottsdale, Arizona

Mailing Address:
P.O. Box 428
Cave Creek, Arizona 85327

Phone: (480) 575-2400
Fax: (480) 488-6701

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[Anthony Morice
Media Center](#)

[Athletics](#)

[Attendance](#)

[Bus Routes](#)

[Cactus Shadows
eLearning](#)

[Comments &
Suggestions](#)

[Counseling
Department](#)

[Digital Learning
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Community Service](#)

[Grades & Payments
Online](#)

[Graduation](#)

[International
Baccalaureate](#)

[Intern Program](#)

[Mission Statement](#)

[PBIS Information](#)

[Registration](#)

[Student
Handbook/Policies](#)

[Student Job Board](#)

[Summer
Assignments Honors,
AP & IB](#)

[Tax Credit
Information](#)

[Writing Lab](#)

[Yearbook](#)

08.12.16



School Office Hours

7:00 AM to 3:00 PM

Monday - Friday

Bookstore Hours:

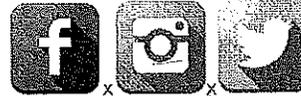
7:00-8:45 AM, 10:00 AM-12:20 PM,

and 1:30-2:30 PM

First Day of School - August 11th

Campus Tours by appointment 480-575-2400

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Arizona Education Association
and is used by permission.*



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[CSHS Video](#)



**Enroll in
CCUSD**
[Click Here](#)



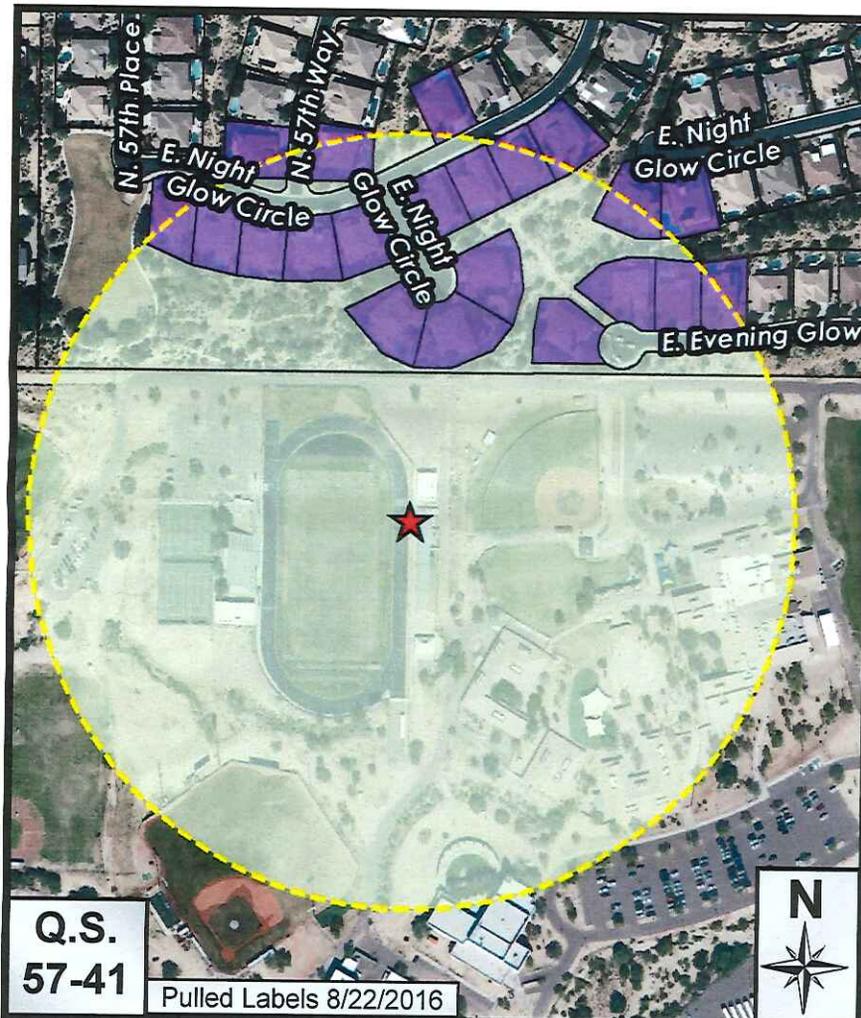
ANNOUNCEMENT - Verizon Wireless Upgrade

Verizon Wireless is proposing to add (3) panel antennas, replace (1) of (3) existing panel antennas, and add ancillary equipment at the 62' centerline of the 81' stadium light pole located at Cactus Shadows High School.

[Click here for Public Notice letter](#)

****NEW** Parking Info for 2016-17**

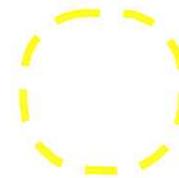
City Notifications – Mailing List Selection Map



Map Legend:



Site Boundary



Properties within 750 feet
52 Postcards

Additional Notifications:

- Interested Parties List
- Adjacent HOA's
- P&Z E-Newsletter
- Facebook
- Twitter
- Nextdoor
- City Website-Projects in the hearing process

**Verizon PHO
Windy Antenna Replacement**

116-DR-2006#4

ATTACHMENT #8