

Paradise Valley – equipment modifications to 3 streetlight SWF sites

Site List:

- 1) H219 – 7300 N. Tatum Blvd
- 2) H228 – 6401 E. McDonald Dr
- 3) H232 – 5395 N. Invergordon Rd

Project Narrative:

Crown Castle Fiber LLC, formerly NewPath Networks, is upgrading its existing small wireless facilities throughout Paradise Valley to provide increased signal penetration and improve network capacity. These equipment modifications require a change in the form factor to accommodate different sized equipment than what was original permitted and installed for the three (3) streetlight poles in this network.

To accommodate the changes in equipment at these 3 sites, Crown Castle considered all possible configurations including placing the equipment into a new, pole-mounted cabinet, installing a larger, 36" tall faux rock structure near the pole, as well as, installing an underground vault. Due to heat dissipation issues with the electronic equipment, we were unable to proceed with these alternative options, including the use of a decorative cabinet. All other small wireless sites in the Town have an existing 48"x36"x24" equipment cage or 24't x 24"w faux cactus structure, allowing the replacement equipment to fit and operate effectively. To accommodate the equipment modifications at the 3 streetlight poles, we'll remove the existing faux rock-covered partial vault, install a new concrete pad at grade and place a new 3' x 3' x 3' equipment cage on it. This new ground cabinet features a single solid panel side with 3 mesh panels, can be painted any color the Town prefers and oriented in any direction. The mesh panels help dissipate the heat and eliminate the need for additional fan-cooled equipment that would generate sound or the use of a much larger, insulated cabinet. The proposed addition of Creosote bushes, similar to what is in the vicinity, placed around the new cabinet will further provide screening of views and will be maintained by a landscaper until established (approximately 1 year).

ABBREVIATIONS AND SYMBOLS

3

Δ

REVISION

A01

→

KEY NOTE

8

A-2

ELEVATION REFERENCE

●

ELEVATION MARKER

##

←

ANTENNA AZIMUTH

1

A-0.2

VIEW NUMBER

1

A-0.2

SHEET NUMBER

CENTER LINE

RIGHT-OF-WAY/PROPERTY LINE

FIBER

GAS

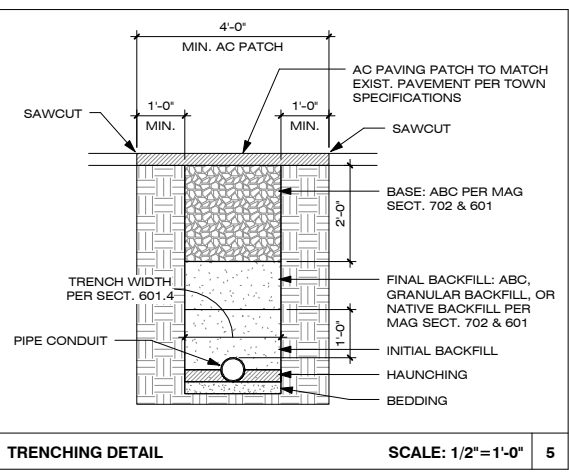
POWER

SANITARY SEWER

STORM DRAIN

WATER

OVERHEAD POWER LINE



TRENCHING DETAIL

SCALE: 1/2"=1'-0"

5

GENERAL NOTES

1. CONTRACTOR TO FIELD LOCATE EXIST. UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION

2. EX. LANDSCAPE PLANTINGS AND DECORATIVE HARDSCAPES DISTURBED OR DESTROYED AS A RESULT OF CONSTRUCTION SHALL BE REPLACED WITH A LIKE SIZE AND SPECIES.

3. CONTRACTOR TO HAND LOCATE EX. IRRIGATION PRIOR TO EXCAVATION.

4. SITE PLAN IS A DIAGRAMMATIC REPRESENTATION ONLY; VERIFY ALL DIMENSIONS.

5. EXIST. UTILITY LOCATIONS SHOWN ON PLANS ARE APPROXIMATE ONLY (AS PROVIDED BY LOCAL UTILITIES).

6. ANY DAMAGE TO EXISTING GUTTER, CURB, SIDEWALK AND ROADWAY DURING CONSTRUCTION TO BE REPAIRED OR REPLACED.

Contact Arizona 811 at least two full working days before you begin excavation

ARIZONA811

Call 811 or click Arizona811.com

SUBJECT POLE: H219-01

GPS COORDINATES:

LAT: 33.543756,

LONG: -111.975778

POLE TYPE: METAL STREET LIGHT

POLE ID #:

SUBJECT POLE IS LOCATED IN:

SCOTTSDALE R.O.W.



CROWN CASTLE
2055 S. STEARMAN DRIVE
CHANDLER, AZ 85286
PH: 602.722.4707

RECORD DRAWINGS ISSUE DATE: 01.28.20



Shift Companies, LLC
3334 N. 20TH STREET
PHOENIX, ARIZONA 85016
ph: 480.264.0829
fax: 480.264.0163

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RELEASE	
DATE	SUBMITTAL
11.08.19	1ST SUBMITTAL
01.28.20	2ND SUBMITTAL

REVISIONS		
NO.	DATE	COMMENT

PROJECT NAME

PARADISE VALLEY - UPGRADE

NODE NUMBER

H219-01

NODE ADDRESS

7300 N. TATUM BLVD.
PARADISE VALLEY, AZ 85253

LAT: 33.543756,
LONG: -111.975778

SHIFT JOB NUMBER

150602

IN HOUSE

DRAWN BY: MB
CHECKED BY: RA

SHEET TITLE

SITE PLAN, EQUIPMENT
AND ANTENNA PLAN

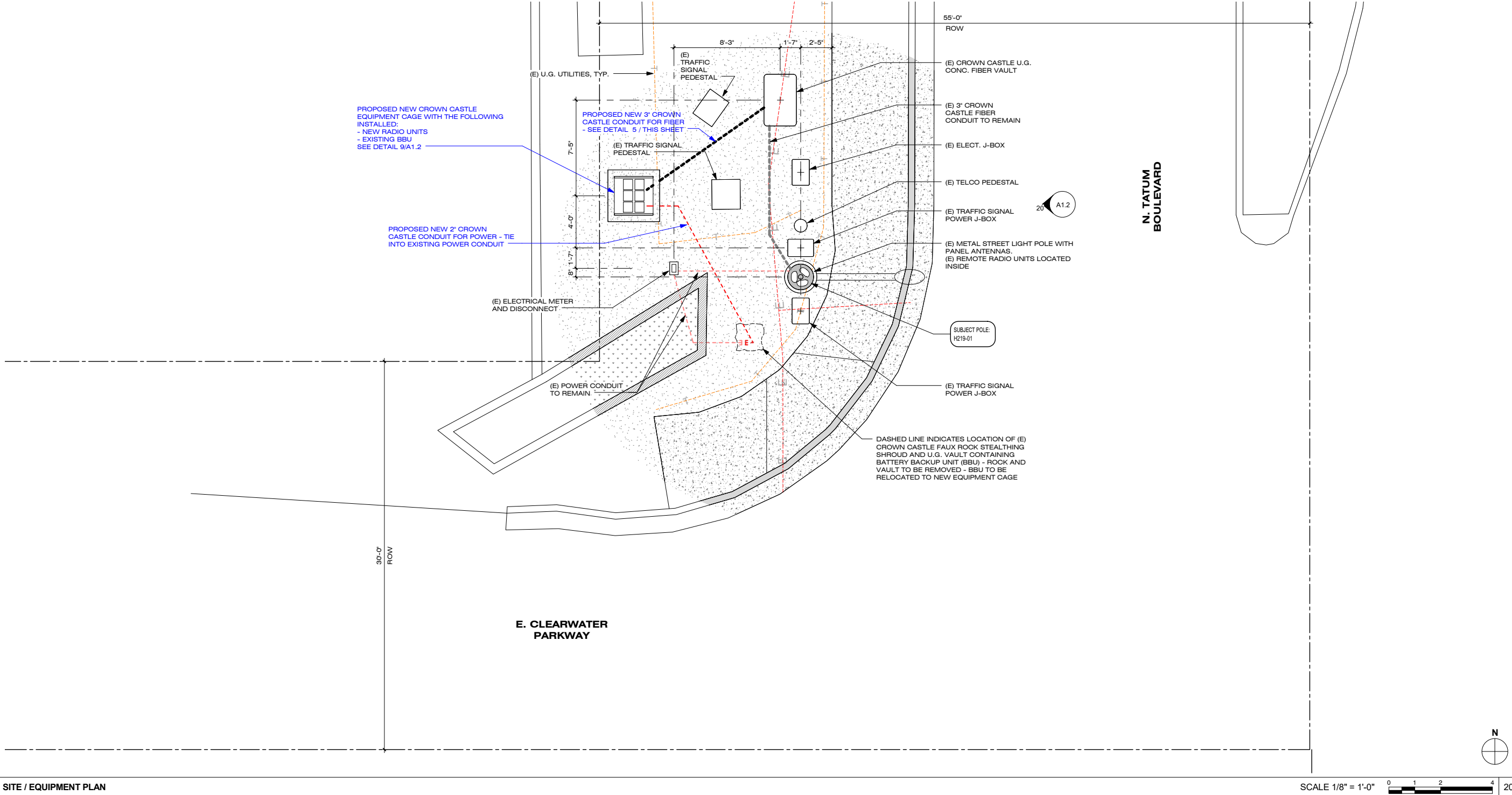
SHEET NUMBER

A1.1

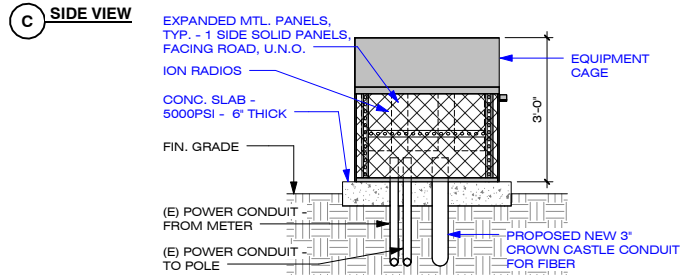
PAGE

2 OF 4

PLOT SCALE: 1:1 @ 24"x36"; 1:2 @ 11"x17"



SITE / EQUIPMENT PLAN

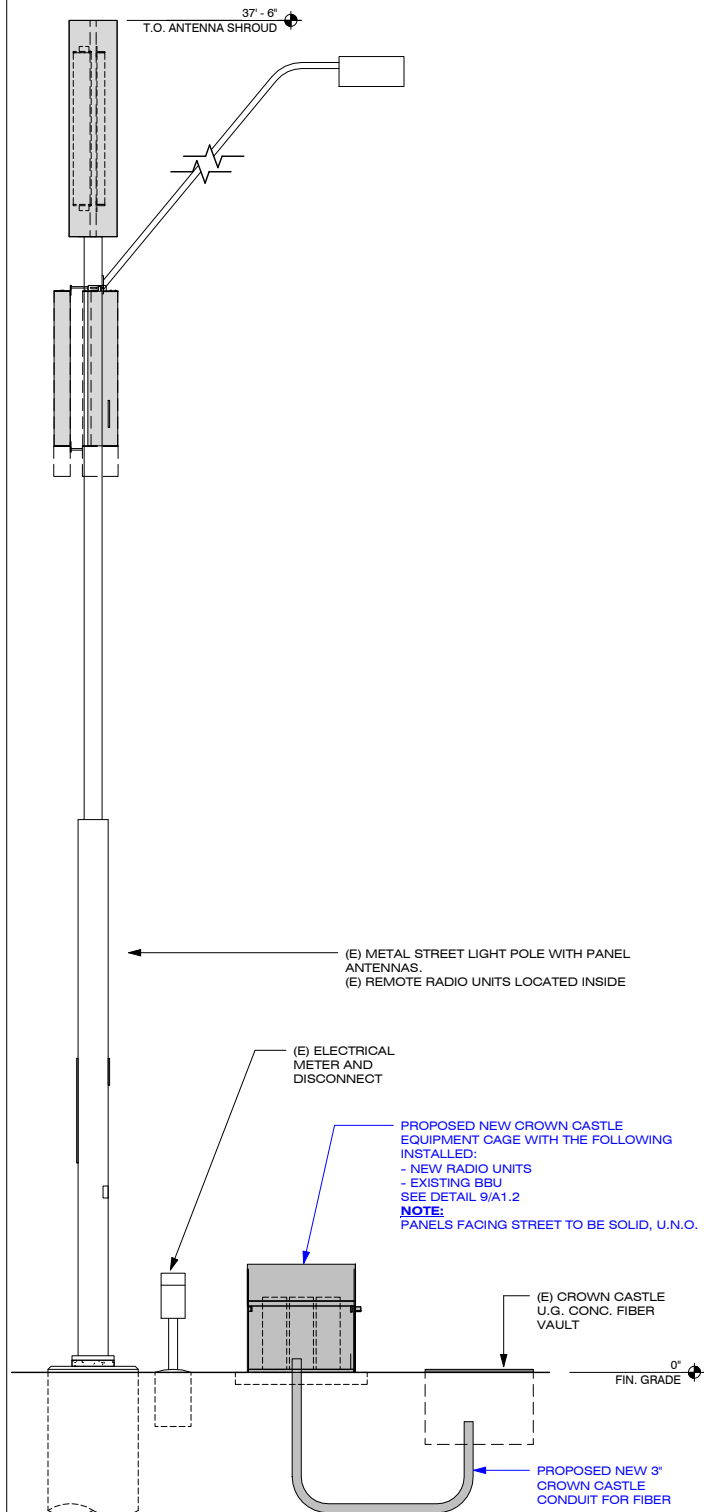
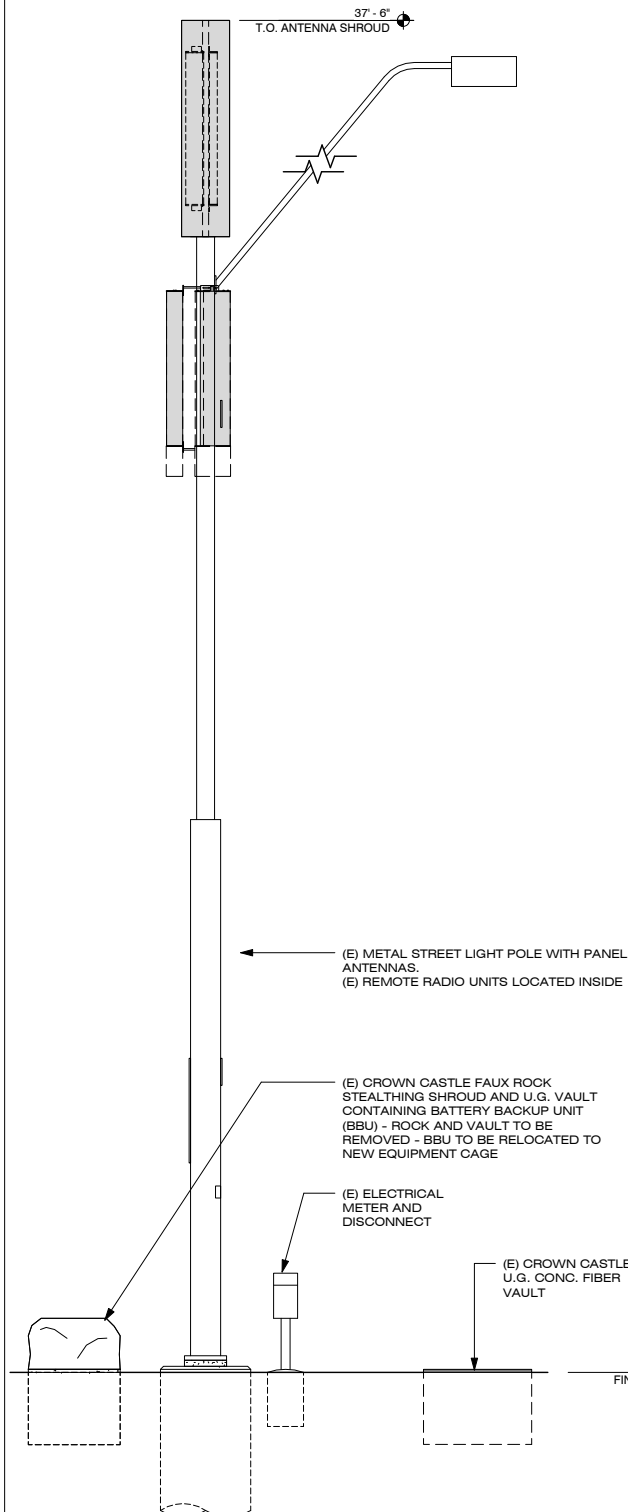


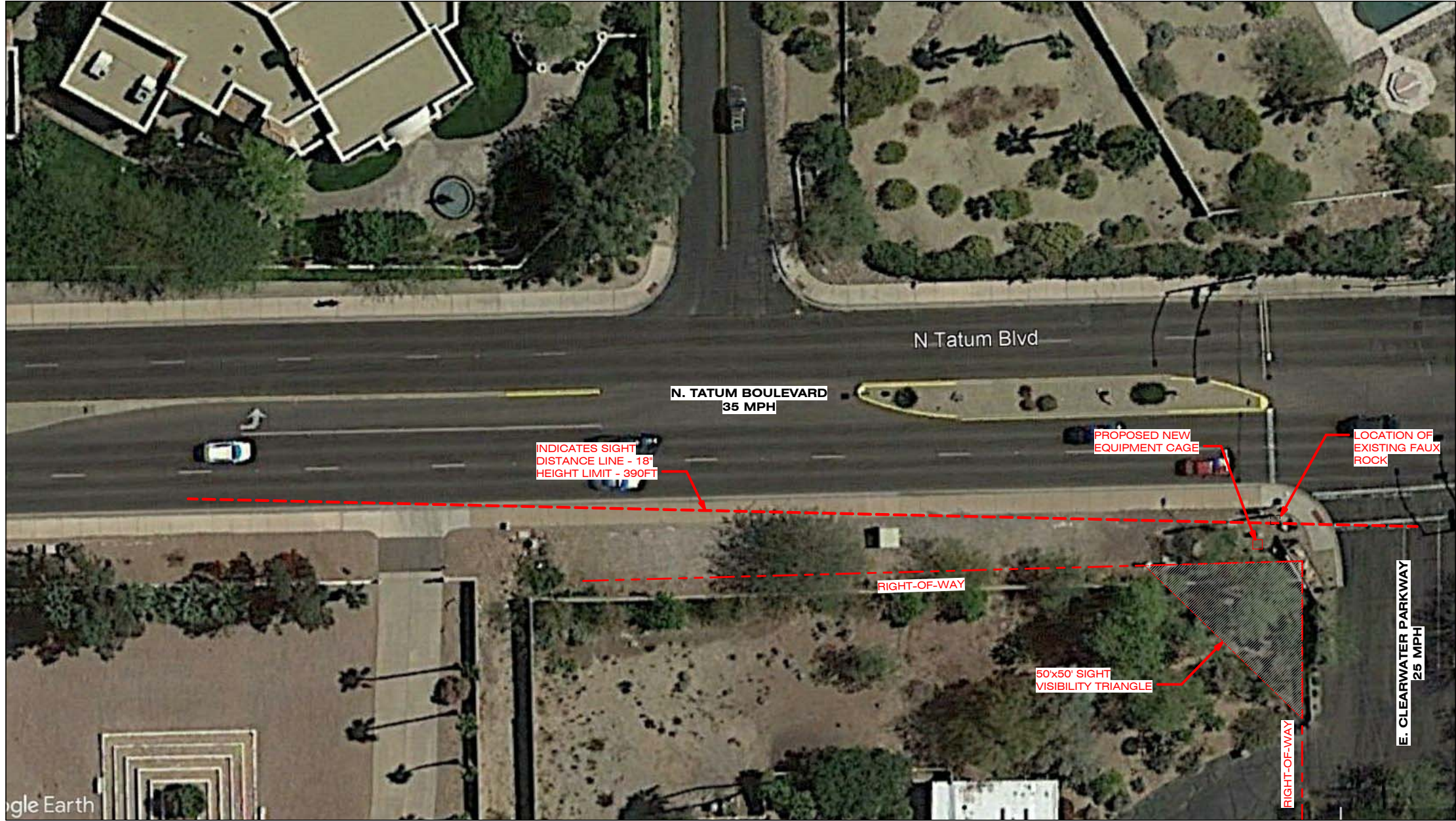
NOTE:
PAINT PROPOSED GROUND EQUIPMENT A NATURAL EARTH COLOR (SHERWIN WILLIAMS SW7055 'ENDURING BRONZE' OR AS APPROVED BY CITY OF SCOTTSDALE).

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PLOT SCALE: 1:1 @ 24"x36"; 1:2 @ 11"x17"





SCALE 1" = 20'-0" 0 10 20 40 20



CROWN CASTLE
2055 S. STEARMAN DRIVE
CHANDLER, AZ 85286
PH: 602.722.4707

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NO.	DATE	COMMENT

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UPGRADE

NODE NUMBER

H219-01

NODE ADDRESS

7300 N. TATUM BLVD.
PARADISE VALLEY, AZ 85253

LAT: 33.543756,
LONG: -111.975778

SHIFT JOB NUMBER

150602

DRAWN BY: MB
CHECKED BY: RA

IN HOUSE

SHEET TITLE

SIGHT VISIBILITY
EXHIBIT

SHEET NUMBER

A1.3

PAGE

4 OF 4

PLOT SCALE: 1:1 @ 24"x36"; 1:2 @ 11"x17"

PLAN CHECK #

D:\AAA - Shift Companies\AAA - Crown Castle\Upgrade Sites\AAA - SITES\Paradise Valley\H228-01 - Project.rvt

2/12/2020 9:31:21 AM



PROJECT NAME: PARADISE VALLEY - UPGRADE

HUB AREA: PARADISE VALLEY X463

NODE #(s): **H228-01**

PROJECT TYPE: **METAL STREET LIGHT**

ADDRESS: 6401 E. McDONALD DR.
PARADISE VALLEY, AZ 85253

COORDINATES: LAT.: 33.523717, LONG.: -111.943044

T1.1-Sheet Index		
Sheet #	Sheet Description	Page
T1.1	TITLE SHEET	1
A1.1	SITE PLAN, EQUIPMENT AND ANTENNA PLAN	2
A1.2	POLE ELEVATION / PHOTO SIMULATIONS, PROPOSED	3
A1.3	SIGHT VISIBILITY EXHIBIT	4



CROWN CASTLE
2055 S. STEARMAN DRIVE
CHANDLER, AZ 85286
PH: 602.722.4707

RECORD DRAWINGS ISSUE DATE: 02.12.20

SHIFT

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3334 N. 20TH STREET
PHOENIX, ARIZONA 85016
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NODE NUMBER

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LAT: 33.523717,
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SHEET TITLE

TITLE SHEET

SHEET NUMBER

T1.1

PAGE

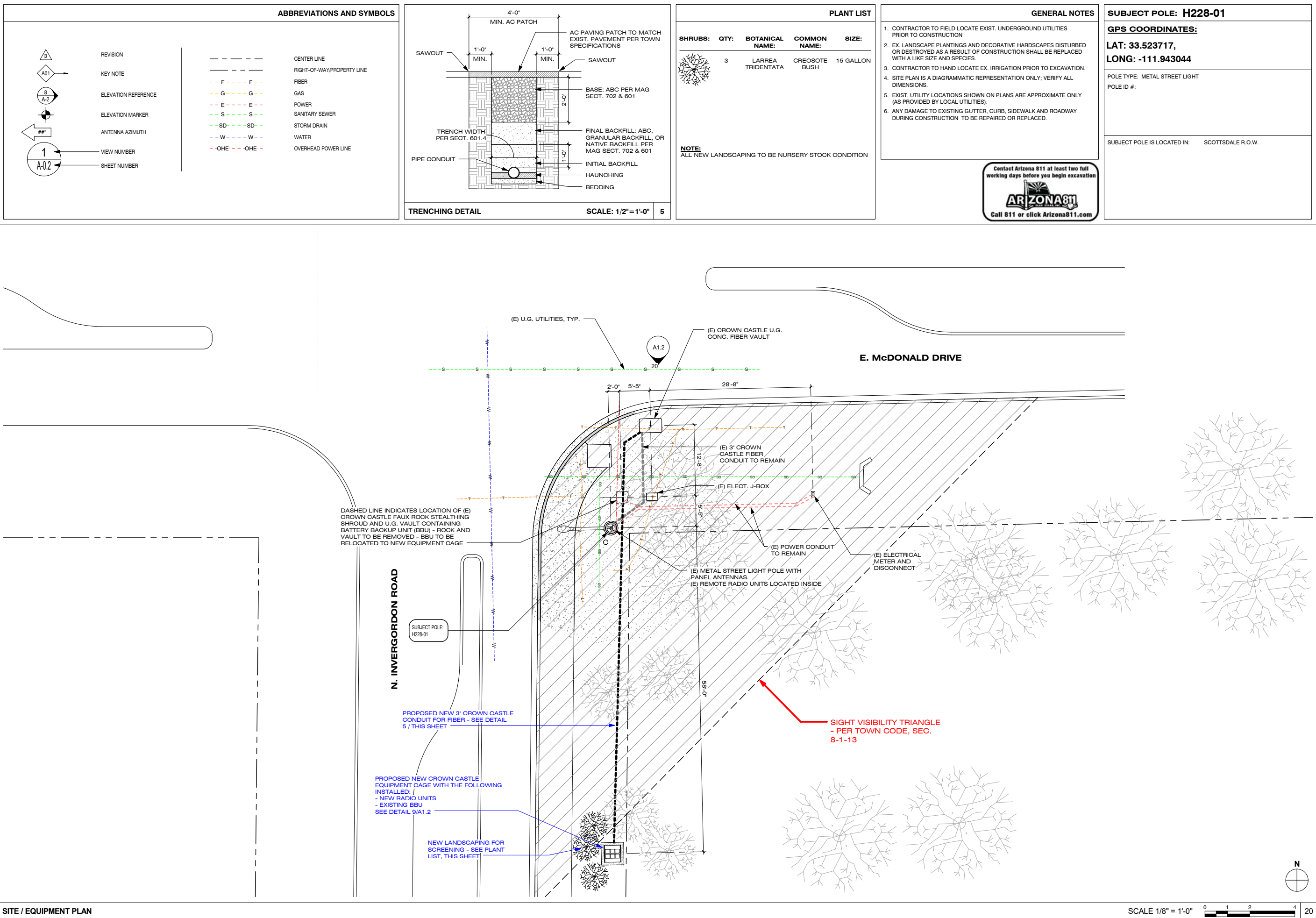
1 OF 4

PLOT SCALE: 1:1 @ 24"x36"; 1:2 @ 11"x17"

CODES		GENERAL PROJECT NOTES
<p>CODES:</p> <p>CURRENT TOWN OF PARADISE VALLEY MUNICIPAL CODE</p> <p>2015 INTERNATIONAL BUILDING CODE (IBC)</p> <p>2014 NATIONAL ELECTRICAL CODE (NEC)</p> <p>NOTE:</p> <p>NO PROPOSED STORM SEWER, WASTEWATER, OR WATER WORK IS SHOWN ON THIS PLAN SET, NOR INCLUDED IN THIS WORK SCOPE.</p>		<ol style="list-style-type: none">1. A UTILITY LOCATE IS REQUIRED FOR ALL PROJECTS.2. CROSSING OF EXISTING UTILITIES SHALL BE COORDINATED BY CONTRACTOR.3. ALL DISTURBED LANDSCAPING SHALL BE REPLACED TO SIMILAR EXISTING CONDITION.4. ALL SURFACE REPAIR SHALL BE TO TOWN OF PARADISE VALLEY SPECIFICATIONS.5. ANY SIDEWALK CLOSURE SHALL BE COORDINATED WITH THE TOWN AND PROPER SIGNAGE WILL BE PLACED.6. TEMPORARY LIGHTING WILL BE COORDINATED WITH THE CITY AND PROVIDED WHENEVER EXISTING LIGHTING IS REMOVED OR UNAVAILABLE AS REQUIRED.7. NO MATERIALS OR EQUIPMENT SHALL BE STORED ON PRIVATE PROPERTY OR BLOCK ACCESS TO PRIVATE PROPERTY.8. OPEN EXCAVATIONS SHALL BE PROPERLY GUARDED AND SIGNED. NO OPEN EXCAVATIONS WILL BE LEFT ACCESSIBLE TO THE PUBLIC.9. CLEANUP OF THE WORK AREA WILL BE COMPLETED EACH EVENING AND THE PROJECT AREA WILL BE RETURNED TO EXISTING CONDITION AT THE COMPLETION OF CONSTRUCTION AT EACH NODE LOCATION.10. ALL WORK TO COMPLY WITH OSHA AND TOWN OF PARADISE VALLEY GUIDELINES.11. CONTRACTOR WILL BE RESPONSIBLE FOR LOCATING PRIVATE IRRIGATION PRIOR TO EXCAVATION. CONTRACTOR WILL REPAIR OR REROUTE IRRIGATION IN ROW AS NECESSARY.12. THE CONTRACTOR SHALL BE RESPONSIBLE TO REMOVE AND REPLACE, AT THEIR COST, ANY AND ALL DAMAGED PAVEMENT, SIDEWALK, CURB AND GUTTER OUTSIDE THE PAY LIMIT, DAMAGE DUE TO THEIR ACTIVITIES ON THE PROJECT. THIS INCLUDES, BUT IS NOT LIMITED TO THE REMOVAL AND REPLACEMENT OF NEWLY CRACKED, THE REMOVAL AND REPLACEMENT OF EXISTING CRACKS WHERE THE CRACKS HAVE BEEN ENLARGED DUE TO THE CONTRACTORS OPERATIONS. THE REMOVAL AND REPLACEMENT OF DEFORMED PAVEMENT, CURB AND GUTTTER, SIDEWALK, ETC.. ALL SAW CUTS USED FOR THE REMOVAL OF THESE ITEMS SHALL BE PERPENDICULAR AND PARALLEL TO THE CENTERLINE CONTROLLING THAT ITEM, OR AT THE DISCRETION OF THE CITY INSPECTOR.13. THE VAULTS INSTALLED IN CONJUNCTION WITH THE INDIVIDUAL ANTENNA NODES SHALL BE FLUSH WITH THE GROUND.
PROJECT INFORMATION		
<p>JURISDICTION:</p> <p>TOWN OF PARADISE VALLEY 6401 E. LINCOLN DR. PARADISE VALLEY, AZ 85253 PH: 480.348.3692 CONTACT: T.B.D.</p>	<p>APPLICANT:</p> <p>CROWN CASTLE 2055 S. STEARMAN DR. CHANDLER, AZ 85286 PH: 602.722.4707</p> <p>POWER COMPANY:</p> <p>ARIZONA PUBLIC SERVICE 400 N. 5TH STREET PHOENIX, AZ 85004 PH: 800.659.2975 CONTACT: T.B.D.</p>	
PROJECT TEAM		
<p>ARCHITECT</p> <p>Company: SHIFT CONSULTING Address: 3334 N. 20TH ST. PHOENIX, AZ 85016 Phone: 480.264.0829 Email: ruebenA@shiftcompanies.com Contact: RUEBEN AMADO</p>	<p>OWNER INFO</p> <p>Company: CROWN CASTLE Address: 2055 S. STEARMAN DR. CHANDLER, AZ 85286 Phone: 480.586.4306 Fax: 480.686.8975 Contact: MATT BOND</p>	
PROJECT DESCRIPTION		
<p>THIS PROJECT UPGRADE WILL CONSIST OF THE REPLACEMENT OF AN EXISTING FAUX ROCK STEALTHING SHROUD (BATTERY BACKUP UNIT), WITH A NEW EQUIPMENT CAGE. EXISTING BATTERY BACKUP UNITS WILL BE MOVED TO THE NEW CAGE. NEW RADIO UNITS WILL ALSO BE INSTALLED IN THE CAGE. A NEW U.G. FIBER CONDUIT WILL BE INSTALLED FROM THE EQUIPMENT CAGE TO THE EXISTING FIBER VAULT.</p>		



PLAN CHECK #



CROWN CASTLE
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CHANDLER, AZ 85286
PH: 602.722.4707

RECORD DRAWINGS ISSUE DATE: 02.12.20



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01.28.20	2ND SUBMITTAL
02.12.20	3RD SUBMITTAL

REVISIONS		
NO.	DATE	COMMENT

PROJECT NAME

PARADISE VALLEY -
UPGRADE

NODE NUMBER

H228-01

NODE ADDRESS

6401 E. McDONALD DR.
PARADISE VALLEY, AZ 85253

LAT: 33.523717,
LONG: -111.943044

SHIFT JOB NUMBER

IN HOUSE

150602

DRAWN BY: MB
CHECKED BY: RA

SHEET TITLE

SITE PLAN, EQUIPMENT
AND ANTENNA PLAN

SHEET NUMBER

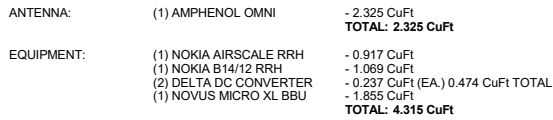
A1.1

PAGE

2 OF 4

PLOT SCALE: 1:1 @ 24"x36"; 1:2 @ 11"x17"

PLAN CHECK #



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02.12.20	3RD SUBMITTAL

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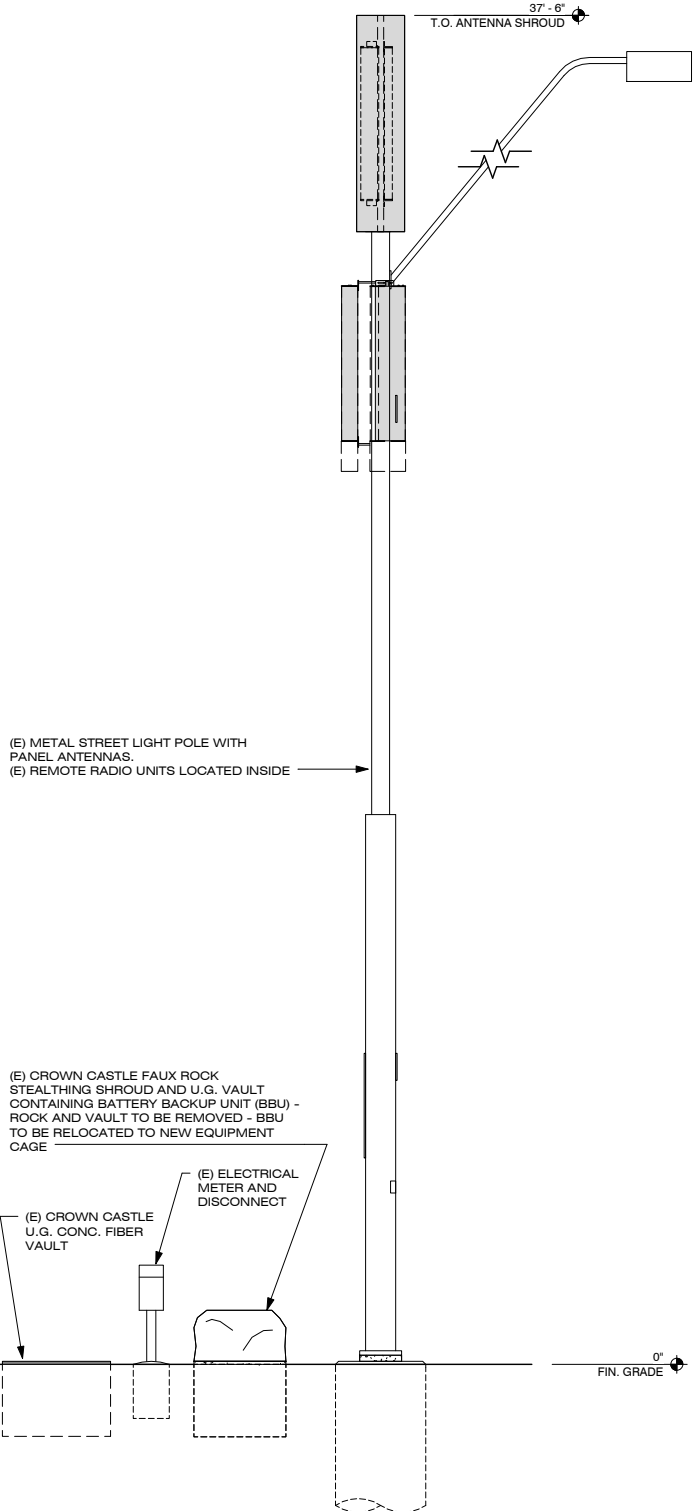
**POLE ELEVATION /
PHOTO SIMULATIONS,
PROPOSED**

A1.2

PAGE

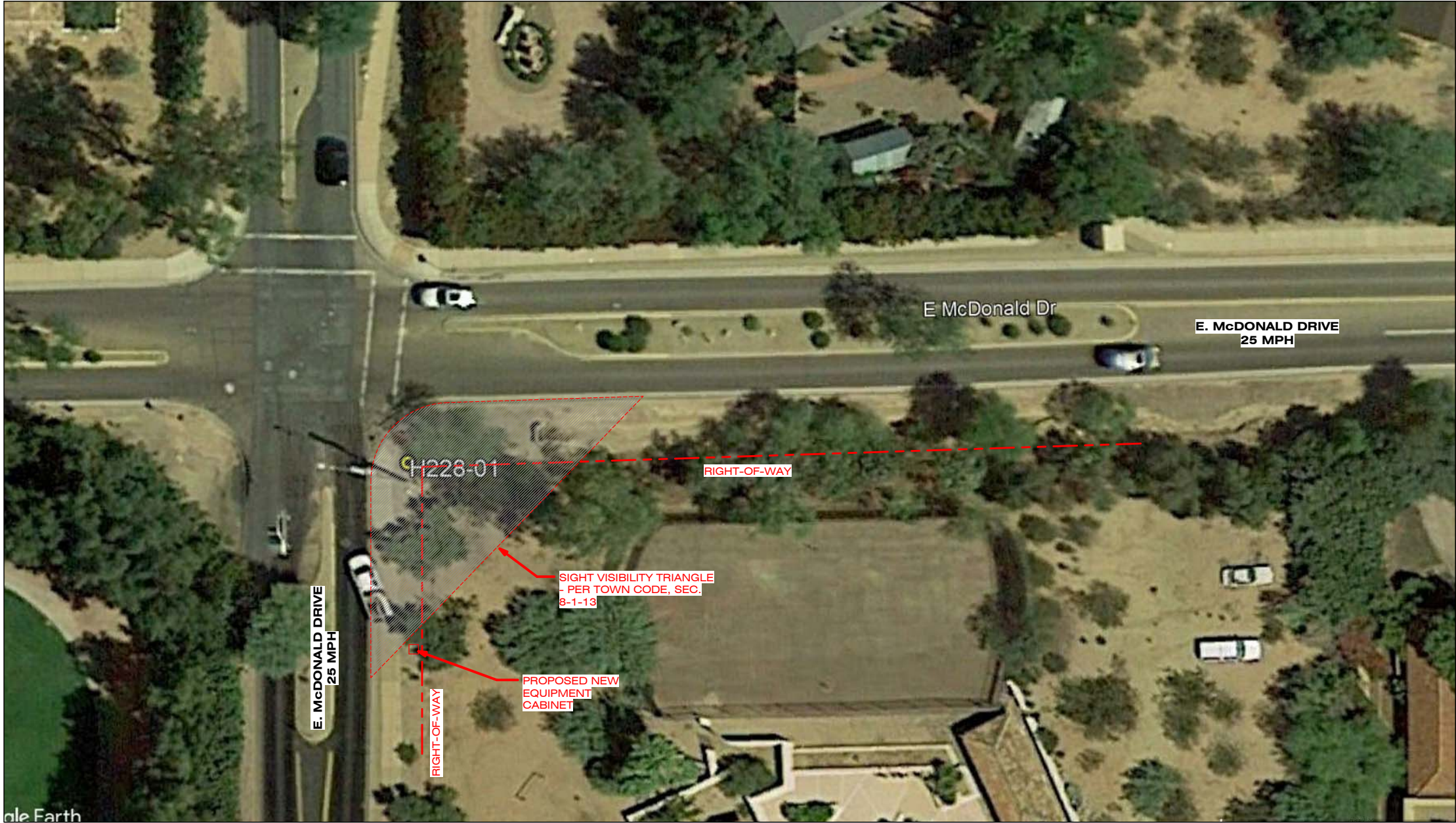
3 OF 4

PLOT SCALE: 1:1 @ 24"x36"; 1:2 @ 11"x17"



SCALE: N.T.S. 6

**POLE LOCATION PHOTO SIMULATION (PROPOSED)****POLE ELEVATION (EXISTING)****POLE ELEVATION (PROPOSED)**



SCALE 1" = 20'-0"

SIGHT VISIBILITY EXHIBIT



CROWN CASTLE
2055 S. STEARMAN DRIVE
CHANDLER, AZ 85286
PH: 602.722.4707

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PROJECT NAME

PARADISE VALLEY -
UPGRADE

NODE NUMBER

H228-01

NODE ADDRESS

6401 E. McDONALD DR.
PARADISE VALLEY, AZ 85253

LAT: 33.523717,
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SHIFT JOB NUMBER

150602

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IN HOUSE

SHEET TITLE

SIGHT VISIBILITY
EXHIBIT

SHEET NUMBER

A1.3

PAGE

4 OF 4

PLOT SCALE: 1:1 @ 24"x36"; 1:2 @ 11"x17"

PLAN CHECK #

D:\AAA - Shift Companies\AAA - Crown Castle\Scottsdale\Upgrade Sites\AAA - SITES\Paradise Valley\H232-01 - Project.rvt

2/12/2020 8:45:00 AM



PROJECT NAME: PARADISE VALLEY - UPGRADE

HUB AREA: PARADISE VALLEY X463

NODE #(s): **H232-01**

PROJECT TYPE: **METAL STREET LIGHT**

ADDRESS: 5395 N. INVERGORDON RD.
PARADISE VALLEY, AZ 85253

COORDINATES: LAT.: 33.516431, LONG.: -111.943133

T1.1-Sheet Index		
Sheet #	Sheet Description	Page
T1.1	TITLE SHEET	1
A1.1	SITE PLAN, EQUIPMENT AND ANTENNA PLAN	2
A1.2	POLE ELEVATION / PHOTO SIMULATIONS, PROPOSED	3
A1.3	SIGHT VISIBILITY EXHIBIT	4



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SHIFT

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SHEET TITLE

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T1.1

PAGE

1 OF 4

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CODES:

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PROJECT INFORMATION

JURISDICTION:

TOWN OF PARADISE VALLEY
6401 E. LINCOLN DR.
PARADISE VALLEY, AZ 85253
PH: 480.348.3692
CONTACT: T.B.D.

APPLICANT:

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CHANDLER, AZ 85286
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POWER COMPANY:

ARIZONA PUBLIC SERVICE
400 N. 5TH STREET
PHOENIX, AZ 85004
PH: 800.659.2975
CONTACT: T.B.D.

PROJECT TEAM

ARCHITECT

Company: SHIFT CONSULTING
Address: 3334 N. 20TH ST.
PHOENIX, AZ 85016
Phone: 480.264.0829
Email: ruebenA@shiftcompanies.com
Contact: RUEBEN AMADO

OWNER INFO

Company: CROWN CASTLE
Address: 2055 S. STEARMAN DR.
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Phone: 480.586.4306
Fax: 480.686.8975
Contact: MATT BOND

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13. THE VAULTS INSTALLED IN CONJUNCTION WITH THE INDIVIDUAL ANTENNA NODES SHALL BE FLUSH WITH THE GROUND.

PROJECT LOCATION MAP

PLAN CHECK #

ABBREVIATIONS AND SYMBOLS

3

REVISION

A01

KEY NOTE

8
A-2

ELEVATION REFERENCE

ELEVATION MARKER

##

ANTENNA AZIMUTH

1

VIEW NUMBER

A-0.2

SHEET NUMBER

CENTER LINE

RIGHT-OF-WAY/PROPERTY LINE

F

F

FIBER

G

G

GAS

E

E

POWER

S

S

SANITARY SEWER

SD

SD

STORM DRAIN

W

W

WATER

-OHE

-OHE

OVERHEAD POWER LINE

TRENCHING DETAIL

SCALE: 1/2"=1'-0"

5

PLANT LIST				
SHRUBS:	QTY:	BOTANICAL NAME:	COMMON NAME:	SIZE:
	3	LARREA TRIDENTATA	CREOSOTE BUSH	15 GALLON
NOTE: ALL NEW LANDSCAPING TO BE NURSERY STOCK CONDITION				

GENERAL NOTES

1. CONTRACTOR TO FIELD LOCATE EXIST. UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION

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3. CONTRACTOR TO HAND LOCATE EX. IRRIGATION PRIOR TO EXCAVATION.

4. SITE PLAN IS A DIAGRAMMATIC REPRESENTATION ONLY; VERIFY ALL DIMENSIONS.

5. EXIST. UTILITY LOCATIONS SHOWN ON PLANS ARE APPROXIMATE ONLY (AS PROVIDED BY LOCAL UTILITIES).

6. ANY DAMAGE TO EXISTING GUTTER, CURB, SIDEWALK AND ROADWAY DURING CONSTRUCTION TO BE REPAIRED OR REPLACED.

Contact Arizona 811 at least two full working days before you begin excavation

Call 811 or click Arizona811.com

SUBJECT POLE: H232-01

GPS COORDINATES:

LAT: 33.516431,
LONG: -111.943133

POLE TYPE: METAL STREET LIGHT

POLE ID #:

SUBJECT POLE IS LOCATED IN:

SCOTTSDALE R.O.W.

CROWN CASTLE

CROWN CASTLE

2055 S. STEARMAN DRIVE

CHANDLER, AZ 85286

PH: 602.722.4707

RECORD DRAWINGS ISSUE DATE: 02.12.20

SHIFT

Shift Companies, LLC

3334 N. 20TH STREET

PHOENIX, ARIZONA 85016

ph: 480.264.0829

fax: 480.264.0163

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RELEASE

DATE	SUBMITTAL
11.08.19	1ST SUBMITTAL
01.28.20	2ND SUBMITTAL
02.12.20	3RD SUBMITTAL

REVISIONS

NO.	DATE	COMMENT

PROJECT NAME

PARADISE VALLEY - UPGRADE

NODE NUMBER

H232-01

NODE ADDRESS

5395 N. INVERGORDON RD.
PARADISE VALLEY, AZ 85253

LAT: 33.516431,
LONG: -111.943133

SHIFT JOB NUMBER

IN HOUSE

150602

DRAWN BY: MB
CHECKED BY: RA

SHEET TITLE

SITE PLAN, EQUIPMENT AND ANTENNA PLAN

SHEET NUMBER

A1.1

PAGE

2 OF 4

PLOT SCALE: 1:1 @ 24"x36"; 1:2 @ 11"x17"

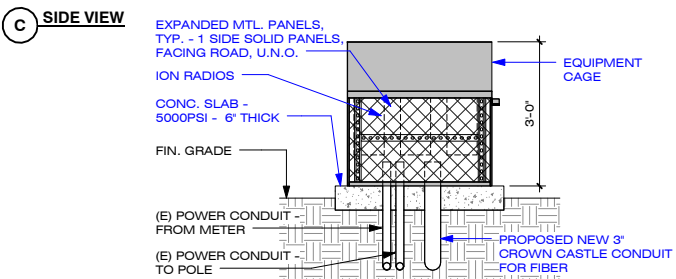
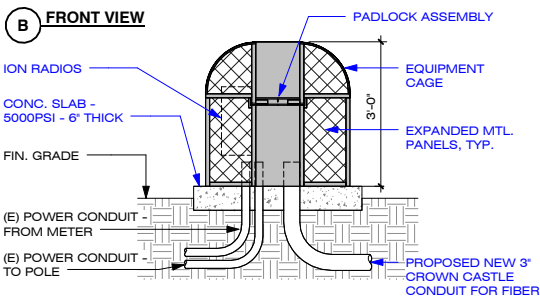
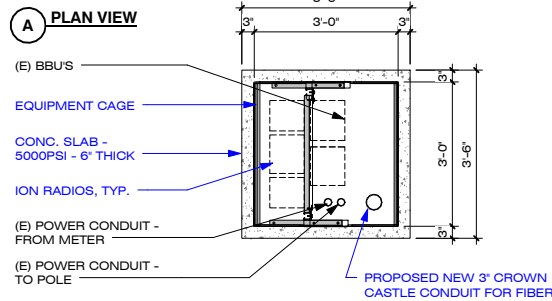
SCALE 1/8" = 1'-0"

20

SITE / EQUIPMENT PLAN

PLAN CHECK #

D:\AAA - Shift Companies\AAA - Crown Castle\Upgrade Sites\AAA - SITES\Paradise Valley\H232-01 - Project.rvt 2/12/2020 8:44:59 AM



ANTENNA:	(1) AMPHENOL OMNI	- 2.325 CuFt TOTAL: 2.325 CuFt
EQUIPMENT:	(1) NOKIA AIRSCALE RRH (1) NOKIA B14/12 RRH (2) DELTA DC CONVERTER (1) NOVUS MICRO XL BBU	- 0.917 CuFt - 1.069 CuFt - 0.237 CuFt (EA.) 0.474 CuFt TOTAL - 1.855 CuFt TOTAL: 4.315 CuFt

NOTE:
PAINT PROPOSED GROUND EQUIPMENT A NATURAL EARTH COLOR (SHERWIN WILLIAMS SW7065 'ENDURING BRONZE' OR AS APPROVED BY CITY OF SCOTTSDALE).

EQUIPMENT CAGE DETAILS

SCALE: 1/4" = 1'-0"

9



POLE LOCATION PHOTO (EXISTING)

SCALE: N.T.S.

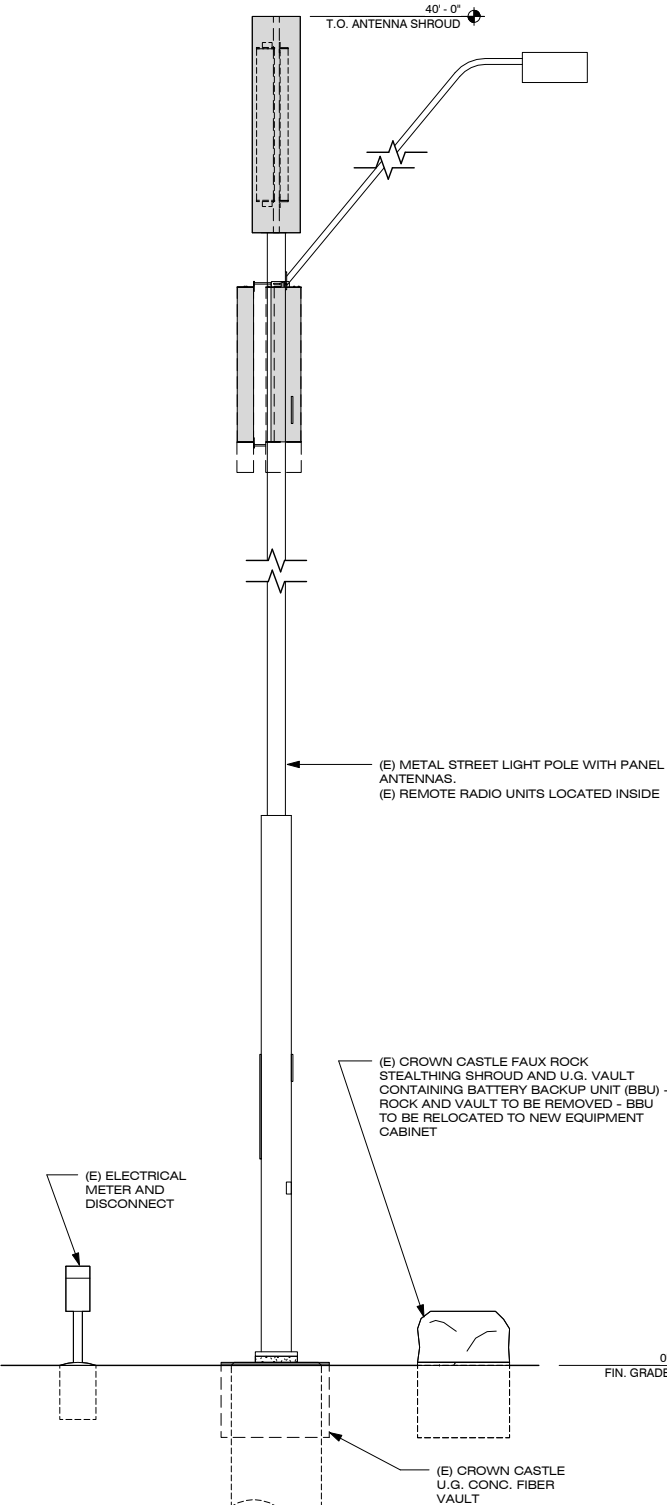
6



POLE LOCATION PHOTO SIMULATION (PROPOSED)

SCALE: N.T.S.

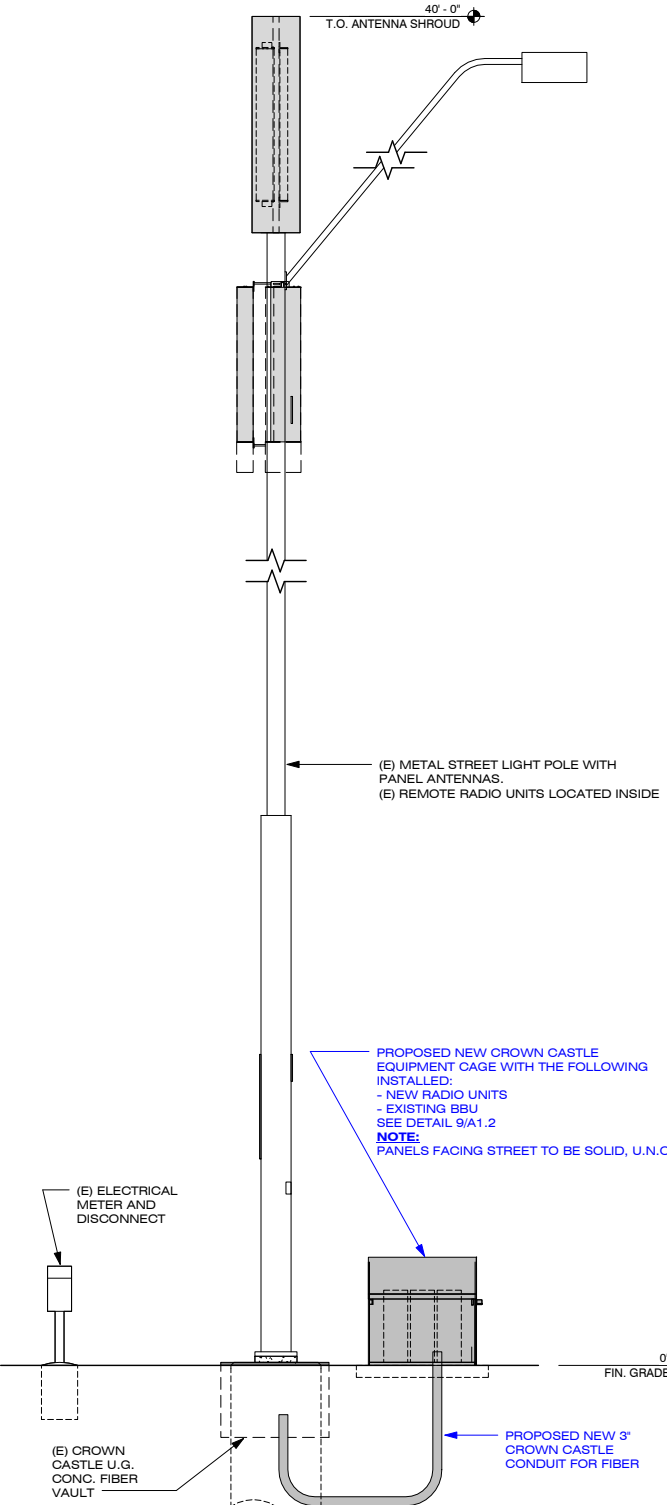
8



POLE ELEVATION (EXISTING)

SCALE: 3/16" = 1'-0"

16



POLE ELEVATION (PROPOSED)

SCALE: 3/16" = 1'-0"

20



CROWN CASTLE
2055 S. STEARMAN DRIVE
CHANDLER, AZ 85286
PH: 602.722.4707

RECORD DRAWINGS ISSUE DATE: 02.12.20



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NO.	DATE	COMMENT

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NODE NUMBER

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5395 N. INVERGORDON RD.
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SHIFT JOB NUMBER

IN HOUSE

150602

DRAWN BY: MB
CHECKED BY: RA

SHEET TITLE

POLE ELEVATION /
PHOTO SIMULATIONS,
PROPOSED

SHEET NUMBER

A1.2

PAGE

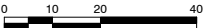
3 OF 4

PLOT SCALE: 1:1 @ 24"x36"; 1:2 @ 11"x17"

PLAN CHECK #



SCALE 1" = 20'-0"



CROWN CASTLE
2055 S. STEARMAN DRIVE
CHANDLER, AZ 85286
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RECORD DRAWINGS ISSUE DATE: 02.12.20



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DRAWN BY: MB
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IN HOUSE

SHEET TITLE

SIGHT VISIBILITY EXHIBIT

SHEET NUMBER

A1.3

PAGE

4 OF 4

PLOT SCALE: 1:1 @ 24"x36"; 1:2 @ 11"x17"

PLAN CHECK #