



REVIEW BY FORT BEND COUNTY COMMISSIONERS COURT

Fort Bend County Engineering Department
301 Jackson Suite 401
Richmond, Texas 77469
281.633.7500
Permits@fortbendcountytx.gov

- Right of Way Permit**
- Commercial Driveway Permit**

Permit No: 2016-10707

Applicant: Crown Castle NG General LLC/Shift Companies

Job Location Site: S.W.C. OF S. FRY RD AND CENTER VILLAGE DR, KATY, TX 77494

Bond No. **Date of Bond:** 5/12/2014 **Amount:** \$50,000.00

The above applicant came to make use of certain Fort Bend County property subject to, "The Order Regulating the Laying, Construction, Maintenance, and Repair of Buried Cables, Conduits, and Pole Lines, In, Under, Across or Along Roads, Streets, Highways, and Drainage Ditches in Fort Bend County, Texas, Under the Jurisdiction of the Commissioners Court of Fort Bend County, Texas," as passed by the Commissioners Court of Fort Bend County, Texas, of the Minutes of the Commissioners Court of Fort Bend County, Texas, to the extent that such order is not inconsistent with Chapter 181, Vernon's Texas Statutes and Codes Annotated.

Notes:

1. Evidence of review by the Commissioners Court must be kept on the job site and failure to do so constitutes grounds for job shutdown.
2. Written notices are required:
 - a. 48 hours in advance of construction start up, and
 - b. When construction is completed and ready for final inspection, submit notification to Permit Administrator thru MyGovernmentOnline.org portal.
3. This permit expires one (1) year from date of permit if construction has not commenced.

On this 6th day of December, 2016, Upon Motion of Commissioner Meyer, seconded by Commissioner Prost, duly put and carried, it is ORDERED, ADJUDGED AND DECREED that said notice of said above purpose is hereby acknowledged by the Commissioners Court of Fort Bend County, Texas, and that said notice be placed on record according to the regulation order thereof.

Signature

Presented to Commissioners Court and approved.

By: Charles O. Ay
for County Engineer

Date Recorded 12-04-16 Comm. Court No. 16D

By: N/A
Drainage District Engineer/Manager

Clerk of Commissioners Court
By: Ronda Wilkins
Deputy



**PERMIT APPLICATION REVIEW FORM FOR
CABLE, CONDUIT, AND POLE LINE ACTIVITY
IN FORT BEND COUNTY**

**Fort Bend County
Engineering Department**
301 Jackson Suite 401
Richmond, Texas 77469
281.633.7500
Permits@fortbendcountytexas.gov

- Right of Way Permit**
 Commercial Driveway Permit

Permit No: 2016-10707

The following "Notice of Proposed Cable, Conduit, and/or Pole Line activity in Fort Bend County" and accompanying attachments have been reviewed and the notice conforms to appropriate regulations set by Commissioner's Court of Fort Bend County, Texas.

(1) COMPLETE APPLICATION FORM:

- a. Name of road, street, and/or drainage ditch affected.
 b. Vicinity map showing course of directions
 c. Plans and specifications

(2) BOND:

- County Attorney, approval when applicable.
- Perpetual bond currently posted. Bond No. Amount: \$50,000.00
- Performance bond submitted. Bond No: Amount:
- Cashier's Check Check No: Amount:

(3) DRAINAGE DISTRICT APPROVAL (WHEN APPLICABLE):

Drainage District Approval

Date

We have reviewed this project and agree it meets minimum requirements.

Charles O. Ay

Permit Administrator

11/29/16

Date

SHIFT

November 28, 2016

Carmen Escobar, CFM
Permit Administrator
Fort Bend County Engineering
301 Jackson St, Richmond, TX 77469

**RE: Cinco Ranch Traffic Control Plan
- Shift Project #160614**

Carmen,

Per our conversation on the phone, the work we are doing in the ROW will not require any road closures. There is no TCP required, the contractor will take adequate measure to ensure they are not impeding the public way.

Please let me know if you need anything else.

Thank you,



Chris Myers
Principal
SHIFT Companies



PROJECT NAME: CINCO RANCH EXPANSION
PROJECT ADDRESS: FRY RD AND CENTER VILLAGE DR
PROJECT TYPE: BLACK DECORATIVE SLIMLINE POLE
HUB AREA: CINCO RANCH - HGCV
NODE #(s): **CCR-29**
COORDINATES: LAT: 29.712515, LONG: -95.769337

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FORT BEND COUNTY ENGINEER
 ENGINEER: *Richard W. Stigley, P.E., P.P.O.E.*
 FOR: Richard W. Stigley, P.E.
 DATE: 11/1/16
 THESE SIGNATURES ARE VOID IF CONSTRUCTION HAS NOT COMMENCED IN (1) YEAR FROM DATE OF APPROVAL.
 APPROVED: *[Signature]*
 Development Coordinator
 DATE: 11/1/16



CROWN CASTLE
 660 E. JOHN CARPENTER Fwy.
 SUITE 300
 IRVING, TX 75062

RECORD DRAWING ISSUE DATE: 10/19/16

RECORD DRAWING DRAFTING ONLY

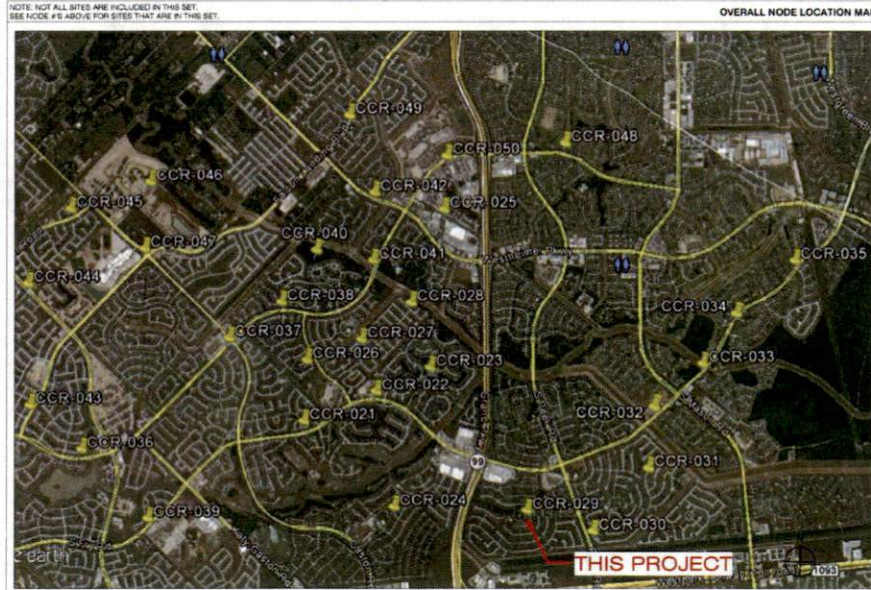


Shift Companies, LLC
 7311 E. WORTH ROAD
 HOUSTON, TEXAS 77057
 P: 281.241.8100
 F: 281.241.8103

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TEAM MEMBERS REVIEW	REVIEWED/DATE
R.F. ENGINEERING	
PRODUCT MANAGEMENT	
NETWORK REAL ESTATE TEAM	
UTILITY TEAM	
IMPLEMENTATION	
OPERATIONS	

OVERALL NODE LOCATION MAP



PROJECT TEAM	
ARCHITECT	OWNER INFO
Company: SHIFT CONSULTING Address: 7333 E. MONTE VISTA RD. SCOTTSDALE, AZ 85257 Phone Number: 480.264.8809 Fax Number: 480.264.0163 Contact: CHRIS MYERS	Company: CROWN CASTLE Address: 1220 AUGUSTA DR. HOUSTON, TX 77067 Phone #: 817.449.3113 Email: BARRY.CAMPAL@CROWNCASTLE.COM Contact: BARRY CAMPAL
STRUCTURAL	RF ENGINEER
Company: T B D Address: Phone Number: Fax Number: Contact:	Company: CROWN CASTLE Address: 1220 AUGUSTA DR. HOUSTON, TX 77067 Phone Number: Fax Number: Contact:
FIBER ENGINEERING	
Company: TDC2 Address: 710 EAST PARK BLVD. SUITE 110 PLANO, TX 75074 Phone: 972.423.9060 Email: Contact: SCOTT CRUM	

PROJECT SUMMARY	
PROJECT NAME: CINCO RANCH EXPANSION	APPLICANT: CROWN CASTLE 1220 AUGUSTA DR. HOUSTON, TX 77067 CONTACT: BARRY CAMPAL
PROJECT AREA: CINCO RANCH - HGCV	CODES: 2009 INTERNATIONAL BUILDING CODE (IBC) 2009 INTERNATIONAL ENERGY CONSERVATION CODE (IECC) 2008 NATIONAL ELECTRICAL CODE (NEC) 2008 NATIONAL ELECTRICAL SAFETY CODE (NEBC)
JURISDICTION: FORT BEND COUNTY ENGINEERING DEPT. 1124 BLUME RD. ROSENBERG, TX 77471 PH: 281.633.7500 CONTACT: JOHNNY ORTEGA	PLUMBING REQUIREMENTS: FACILITY HAS NO PLUMBING.
HANDICAPPED REQUIREMENTS: -FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION. -HANDICAPPED ACCESS REQUIREMENTS ARE NOT REQUIRED.	POWER COMPANY: CENTERPOINT ENERGY 5431 HIGHWAY BLVD. KATY, TX 77494 PH: 281.520.8275 CONTACT: KEN CORTEZ

NOTE: NOT ALL SITES ARE INCLUDED IN THIS SET. SEE NODE #S ABOVE FOR SITES THAT ARE IN THIS SET.

PROJECT DESCRIPTION

CROWN CASTLE PROPOSES TO PROVIDE AN ENHANCED RESIDENTIAL WIRELESS COMMUNICATIONS SYSTEM FOR THE KATY, TEXAS AREA. THE SYSTEM WILL IMPROVE CELLULAR COMMUNICATIONS AND INCREASE CALL CAPACITY. THE NETWORK AND ASSOCIATED EQUIPMENT HAVE BEEN DESIGNED TO MINIMIZE VISUAL IMPACTS IN URBAN SETTINGS. THE PROPOSED SYSTEM WILL PROVIDE A CELLULAR NETWORK THAT CAN BE UTILIZED SIMULTANEOUSLY BY DIFFERENT LICENSED TELECOMMUNICATIONS COMPANIES.

A SUBJECT NODE WILL CONSIST OF NEW METAL SLIMLINE POLE. THEY WILL HAVE GROUND MOUNTED RADIO EQUIPMENT INSIDE A CABINET WITH A METER AND DISCONNECT ATTACHED. THERE WILL ALSO BE POLE-TOP ANTENNAS CONCEALED IN SHROUDS.

RELEASE	
DATE	SUBMITTAL
8/23/14	1ST CITY SUBMITTAL
10/16/16	2ND CITY SUBMITTAL

REVISIONS		
NO.	DATE	COMMENT
1	10/16/16	CITY COMMENTS

PROJECT NAME
CINCO RANCH EXPANSION

NODE ADDRESS
NODE #: CCR-29

FRY RD AND CENTER VILLAGE DR

HUB AREA
CINCO RANCH - HGCV

SHIFT JOB NUMBER 150602 **IN HOUSE**

SHEET TITLE
TITLE SHEET

SHEET NUMBER T1.1 **PAGE** 1 OF 14

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

Cinco Ranch Expansion

700 RRH Specifications

Mechanical	
Frequency Band	82 & 825 (1900)
Technology	LTE FDD
RF Output Power	2400W/4430W (5W configurable)
Operational Range	DL: 146-176 MHz UL: 2177-2187 MHz
Instantaneous BW	DL: 1800-1910 MHz UL: 2100-2190 MHz
RF Configuration	2 CPRI ports (2x4 T)
Interfaces	ANSI 2.0 RS485 port 2 integrated Smart Bias Tees 1 port external alarm (x4) Tx & Rx monitor ports
Power	
Power	-48 VDC
Environmental Conditions	ESM typical @ full RF load -40 C to +55 C
Connectors	IP65
Connections	DSN 114



Physical	
Dimensions	21.8 x 12.8 x 8 in
Weight	67 lbs
Mounting options	Post/Wall
Connector Location	Bottom

Cinco Ranch Expansion

PCS RRH Specifications (Future)

Mechanical	
Frequency Band	82 & 825 (1900)
Technology	LTE FDD
RF Output Power	2400W/4430W (5W configurable)
Operational Range	DL: 1800-1910 MHz UL: 2100-2190 MHz
Instantaneous BW	DL: 1800-1910 MHz UL: 2100-2190 MHz
RF Configuration	2 CPRI ports (2x4 T)
Interfaces	ANSI 2.0 RS485 port 2 integrated Smart Bias Tees 1 port external alarm (x4) Tx & Rx monitor ports 2 on-board DC power connectors
Power	
Power	-48 VDC
Environmental Conditions	ESM typical @ full RF load -40 C to +55 C
Connectors	IP65
Connections	DSN 716



Physical	
Dimensions	21.8 x 12.8 x 8 in
Weight	67 lbs
Mounting options	Post/Wall
Connector Location	Bottom

Cinco Ranch Expansion

AWS RRH Specifications

Mechanical	
Frequency Band	84 (2105)
Technology	LTE FDD
RF Output Power	2400W/4430W (5W configurable)
Operational Range	DL: 2110-2190 MHz UL: 1930-1990 MHz
Instantaneous BW	70 MHz
RF Configuration	2 CPRI ports (2x4 T)
Interfaces	ANSI 2.0 RS485 port 2 integrated Smart Bias Tees 1 port external alarm (x4)
Power	
Power	-48 VDC
Environmental Conditions	-40 C to +55 C
Connectors	IP65
Connections	MS-DIN 4.3-16



Physical	
Dimensions	30 x 12 x 9.7 in
Weight	73 lbs
Mounting options	Post/Wall
Connector Location	Bottom

RADIO SPECIFICATIONS

Amphenol 696-960 / 696-960 / 1695-2700 / 1695-2700 MHz

2C2UT360X12Fxyz0
TRIPLE BAND 1 PHEIC-ORNI CARIBBEAN ANTENNA (2x 6X POL, 30P, 30P, 30P, 30P, 1.9 / 1.9, 8.6 / 8.6 DB, 1 PHEIC 12)

- Internal Smart Configuration with 4 connectors
- Used for Single Cell (SC) applications
- Available with 4 1/4 x 5/8 or 4 1/4 x 1/4 DIN Connectors
- Three unique mounting options
- Can be painted or plated in gold or mounting hardware

Connector Description

Low Band #1 & #2	Band Range	Size	Pitch
Low Band #1	1695-2700 MHz	2x4 1/8 x 4.210 or 4.210 x 1/4 DIN Female	1.27
High Band #1	1695-2700 MHz	2x4 1/8 x 4.210 or 4.210 x 1/4 DIN Female	1.27
High Band #2	1695-2700 MHz	2x4 1/8 x 4.210 or 4.210 x 1/4 DIN Female	1.27

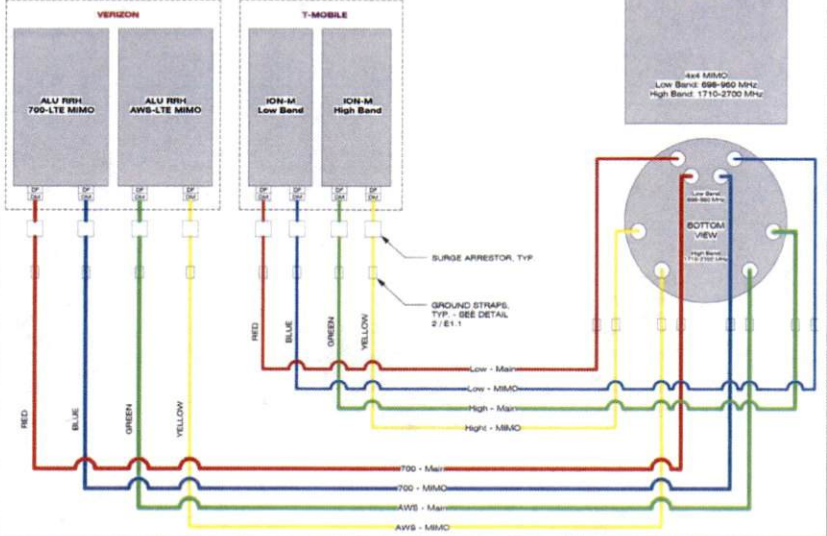
Electrical Characteristics

Frequency Bands (MHz)	Low Band #1 and #2	High Band #1 and #2
Frequency Bands (MHz)	DL: 1695-2700 MHz UL: 1695-2700 MHz	DL: 1695-2700 MHz UL: 1695-2700 MHz
Power	240 W (4430 W)	240 W (4430 W)
Horizontal Beamwidth	30P	30P
Vertical Beamwidth	30P	30P
Gain	8.6 dB	8.6 dB
Electrical Downlink (T)	1.9 dB	1.9 dB
Impedance	50 Ohm	50 Ohm
VSWR	1.1:1	1.1:1
Upper Substrate Mounting	15.48	15.48
Lower Substrate Mounting	15.48	15.48
Mounting Bracket Part	25.48	25.48
RF Connector (mm)	112.286	112.286
RF Connector (in)	4.416	4.416
Weight	160.000 g	160.000 g
Dimensions	30 x 12 x 9.7 in	30 x 12 x 9.7 in
Number of Bays / Bay Spacing	1 Bay / 30 in	1 Bay / 30 in
Lighting Processor	3 Bays / Plastic Clips	3 Bays / Plastic Clips
Lighting Processor	Smart Control	Smart Control

Standard performance specifications are provided for reference only. Actual performance may vary due to site conditions, installation, and component tolerances. Performance specifications are subject to change without notice. Performance specifications are subject to change without notice. Performance specifications are subject to change without notice.

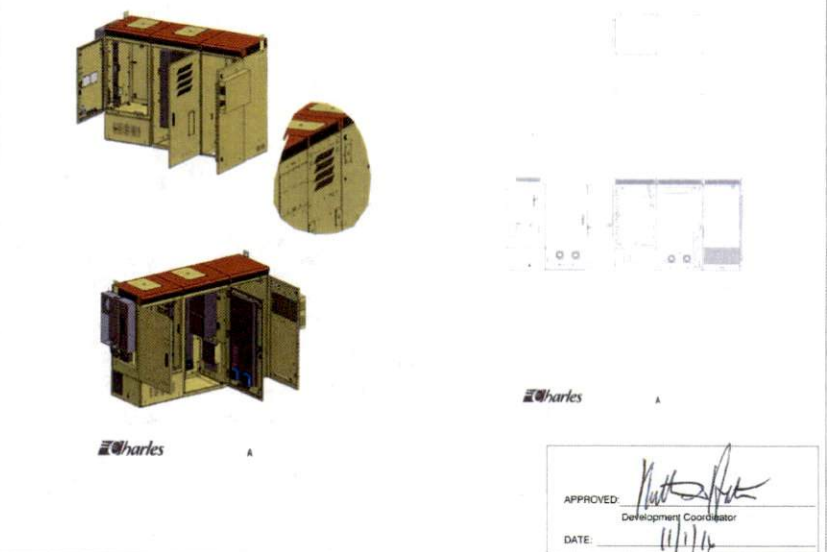
REVISED: 08/15/15 www.amphenol-antennas.com 1 of 5

ANTENNA SPECIFICATIONS



WIRING DIAGRAM

SCALE N.T.S. 10



EQUIPMENT CABINET SPECIFICATIONS

SCALE N.T.S. 20



CROWN CASTLE
800 E. JOHN CARPENTER FWY
SUITE 300
IRVING, TX 75062

RECORD DRAWING ISSUE DATE: 10/16/14



SHIFT Companies, LLC
7221 WEAVER ROAD
SCOTTSDALE, ARIZONA 85251
PH: 480.364.8821
FX: 480.364.8262

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RELEASE	
DATE	SUBMITTAL
6/23/16	1ST CITY SUBMITTAL
10/16/16	2ND CITY SUBMITTAL

REVISIONS		
NO.	DATE	COMMENT
	10/16/16	(CITY COMMENTS)

PROJECT NAME
CINCO RANCH EXPANSION

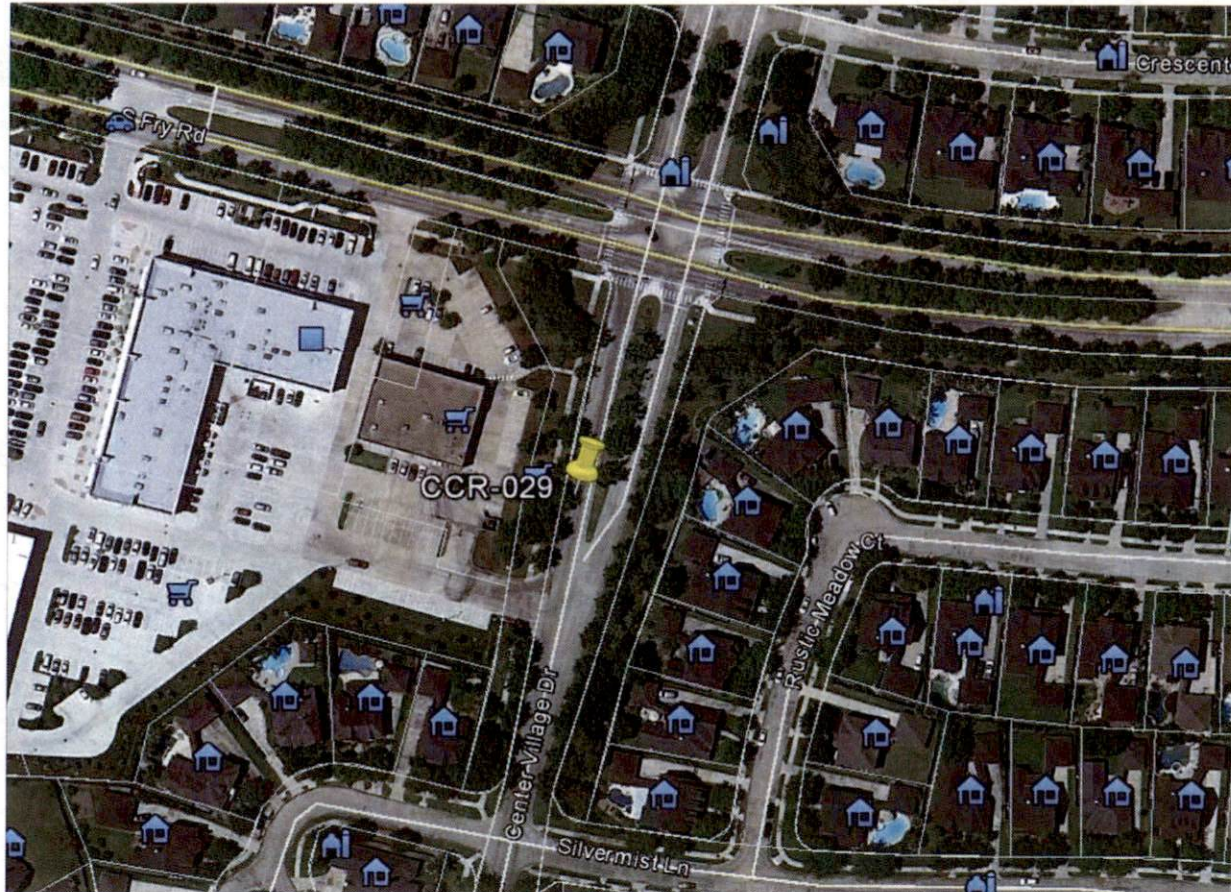
HUB AREA
CINCO RANCH - HGCW

SHEET JOB NUMBER **150602** IN HOUSE
DRAWN BY: BA
CHECKED BY: CM

SHEET TITLE
EQUIPMENT SPECIFICATIONS

SHEET NUMBER **T1.3** PAGE **3 OF 14**

PLOT SCALE: 1.1 @ 24x36; 1.2 @ 11x17



NODE AERIAL PLAN

SUBJECT POLE: CCR-29

QPS COORDINATES:

LAT: 29.712616

LONG: -95.783037

POLE TYPE: BLACK DECORATIVE SUNSHINE POLE

POLE ID #:

UPPER ANTENNA RAD CENTER: 37 - 0' A.F.G.

LOWER ANTENNA RAD CENTER: 35 - 0' A.F.G.

APPROVED: *[Signature]*

Development Coordinator

DATE: 11/1/16



CROWN CASTLE
 800 E. JOHN CARPENTER Fwy
 SUITE 300
 IRVING, TX 75062

RECORD DRAWINGS ISSUE DATE: 10/18/16



Shift Companies, L.L.C.
 7111 E. WISSE VILLAGE
 SUITE 100, BLDG 10117
 OK - 405-284-0829
 TX - 405-284-6162

RELEASE

DATE	SUBMITTAL
03/25/16	1ST CITY SUBMITTAL
10/18/16	2ND CITY SUBMITTAL

REVISIONS

NO.	DATE	COMMENT
15/18/16		CITY COMMENTS

PROJECT NAME
 CINCO RANCH EXPANSION

NODE ADDRESS
 NODE #CCR-29
 FRY RD AND CENTER VILLAGE DR

HUB AREA
 CINCO RANCH - HGCW

SHIFT JOB NUMBER 150602
IN HOUSE
 DRAWN BY: SA
 CHECKED BY: CM

SHEET TITLE
 AERIAL

SHEET NUMBER A1.0
PAGE 4 OF 14

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



SITE PHOTO (EXISTING)

N.T.S

KEYNOTE	DESCRIPTION	DETAIL
A01	PROPOSED CROWN CASTLE CMBR ANTENNA	16'D1.1
A02	PROPOSED CROWN CASTLE P U.S. CONDUIT (APPROXIMATE LOCATION P.V.)	2'D1.1
A03	PROPOSED CROWN CASTLE REMOTE RADIO UNIT (RADIO EQUIPMENT CABINET)	18'D1.1
A04	PROPOSED NEW METAL SLURRING POLE	30'D1.1
A05	PROPOSED CROWN CASTLE UNDERGROUND CONC. FIBER VAULT	5'D1.2
A06	PROPOSED CROWN CASTLE NODE IDENTIFICATION SIGNAGE	30'D1.2
A07	PROPOSED CROWN CASTLE EQUIPMENT CABINET	18'D1.1
A08	PROPOSED CROWN CASTLE PER FOUNDATION	2'D1.1
A09	PROPOSED ELECTRICAL HAND HOLE	

KEYNOTE	DESCRIPTION	DETAIL
E01	PROPOSED POWER METER MOUNTED TO EQUIPMENT CABINET (DISTRIBUTION PANEL AND DISCONNECT)	18'D1.1
U01	PROPOSED P CROWN CASTLE U.S. POWER CONDUIT (APPROXIMATE LOCATION P.V.)	2'D1.1 & 6'D1.2
U02	PROPOSED CROWN CASTLE P U.S. FIBER CONDUIT BY OTHERS (APPROXIMATE LOCATION P.V.)	2'D1.1 & 6'D1.2



NOTES:
 1. ANY DAMAGE TO EXISTING GUTTER, CURB, SIDEWALK AND ROADWAY DURING CONSTRUCTION TO BE REPAIRED OR REPLACED.
 2. EXISTING VEGETATION DAMAGED IN CONSTRUCTION TO BE REPLACED BY SAME SPECIES.

GENERAL NOTES

- PAINT PROPOSED GROUND EQUIPMENT A NATURAL EARTH COLOR OR AS APPROVED BY CITY.
- CONTRACTOR TO FIELD LOCATE EXIST. UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION.
- EX. LANDSCAPE PLANTINGS AND DECORATIVE HANDICAPED DISTURBED OR DESTROYED AS A RESULT OF CONSTRUCTION SHALL BE REPLACED WITH A LIKE SIZE AND SPECIES.
- CONTRACTOR TO HANG LOCATE EX. IRRIGATION PRIOR TO EXCAVATION.
- SITE PLAN IS A DIAGNOSTIC INFORMATION ONLY; VERIFY ALL DIMENSIONS.
- VERIFY ALL PROPERTY LINE INFORMATION WITH AVAILABLE P.O.W. DATA.
- EXIST. UTILITY LOCATIONS SHOWN ON PLANS ARE APPROXIMATE ONLY (AS PROVIDED BY LOCAL UTILITIES).

SUBJECT POLE: CCR-29

GPS COORDINATES:

LAT: 28.712818

LONG: -96.789327

POLE TYPE: BLACK DECORATIVE SLURRING POLE

POLE ID #:

UPPER ANTENNA RAD CENTER: 37' - 0" A.F.G.

LOWER ANTENNA RAD CENTER: 35' - 0" A.F.G.

SUBJECT POLE IS LOCATED IN: FORT BEND COUNTY T.O.W.

APPROVED: *[Signature]*
Development Coordinator

DATE: 11/16



CROWN CASTLE
 600 E. JOHN CARPENTER PKWY
 SUITE 200
 IRVING, TX 75062

RECORD DRAWINGS ISSUE DATE: 10/16/16



Shift Companies, LLC
 7321 F. WEBER VISTA ROAD
 SCOTTSDALE, ARIZONA 85257
 PH: 480.244.3820
 FAX: 480.244.0203

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RELEASE	
DATE	SUBMITTAL
9/28/16	1ST CITY SUBMITTAL
10/18/16	2ND CITY SUBMITTAL

REVISIONS		
NO.	DATE	COMMENT
10	10/18/16	CITY COMMENTS

PROJECT NAME
CINCO RANCH EXPANSION

NODE ADDRESS

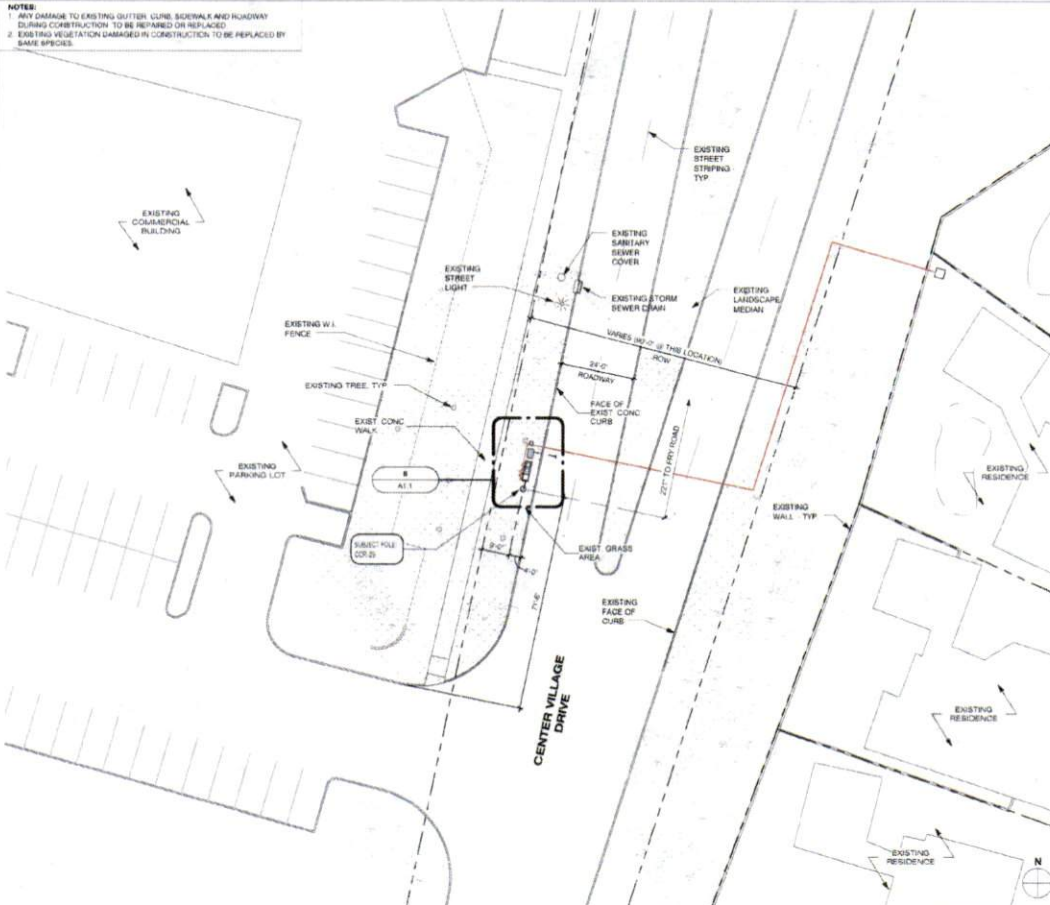
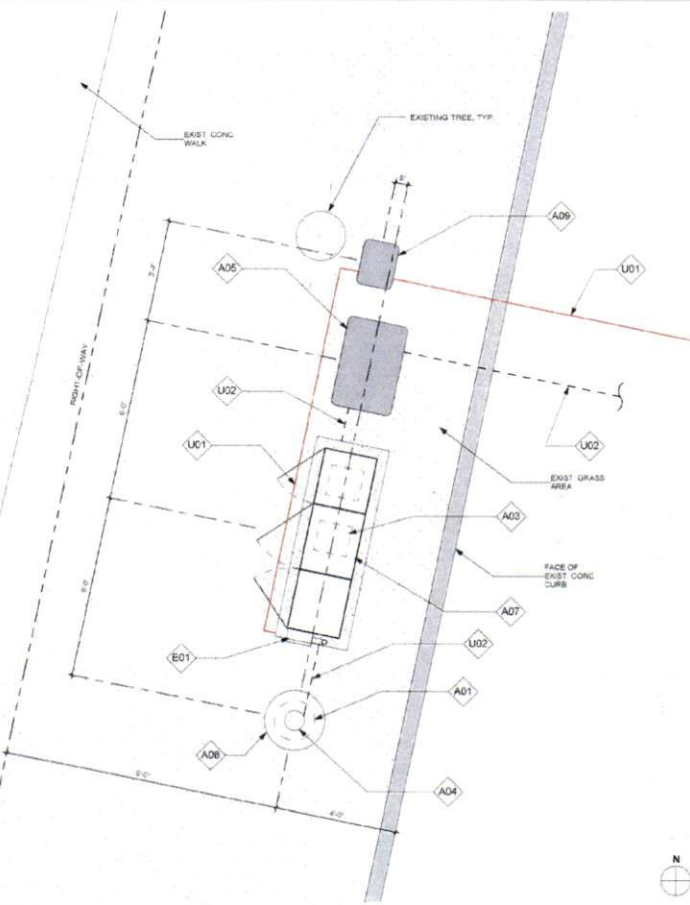
NODE #: CCR-29
FRY RD AND CENTER VILLAGE DR

HUB AREA
CINCO RANCH - HGCW

SHIFT JOB NUMBER IN HOUSE
 150602 DRAWN BY: SA
 CHECKED BY: CM

SHEET TITLE
SITE PLAN, EQUIPMENT AND ANTENNA PLAN

SHEET NUMBER PAGE
 A1.1 5 OF 14
 PLOT SCALE: 1/1" @ 24x36"; 1/2" @ 11x17"



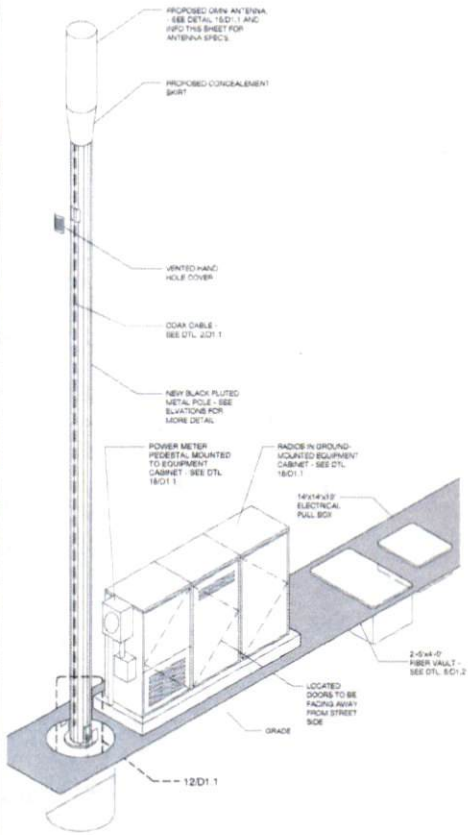
EQUIPMENT AND ANTENNA PLAN 1/2" = 1'-0" 8

OVERALL SITE PLAN 1" = 20'-0" 20

PLAN CHECK #

CASE #

NOTE
ISO IS SCHEMATIC IN NATURE. FIBER VAULT, POWER METER PEDESTAL AND GROUND-MOUNTED RADIO EQUIPMENT PEDESTAL CAN BE RECONFIGURED TO SUIT PROJECT LOCATION



KEYNOTE LEGEND		
KEYNOTE	DESCRIPTION	DETAIL NUMBER
A01	PROPOSED CROWN CASTLE OMN ANTENNA	18D1.1
A02	PROPOSED CROWN CASTLE 2 U/S CONDUIT (APPROXIMATE LOCATION, F.V.)	8D1.1
A03	PROPOSED CROWN CASTLE REMOTE RADIO UNITS INSIDE EQUIPMENT CABINET	18D1.1
A04	PROPOSED NEW METAL SUMMIT POLE	20D1.1
A05	PROPOSED CROWN CASTLE UNDERGROUND CONC. FIBER VAULT	5D1.1
A06	PROPOSED CROWN CASTLE NODE IDENTIFICATION BRAGADE	20D1.2
A07	PROPOSED CROWN CASTLE EQUIPMENT CABINET	18D1.1
A08	PROPOSED CROWN CASTLE POLE FOUNDATION	13D1.1
A09	PROPOSED ELECTRICAL HAND HOLE	
E01	PROPOSED POWER METER INDICATED TO EQUIPMENT CABINET (DISTRIBUTED PANEL AND DISCONNECT)	18D1.1

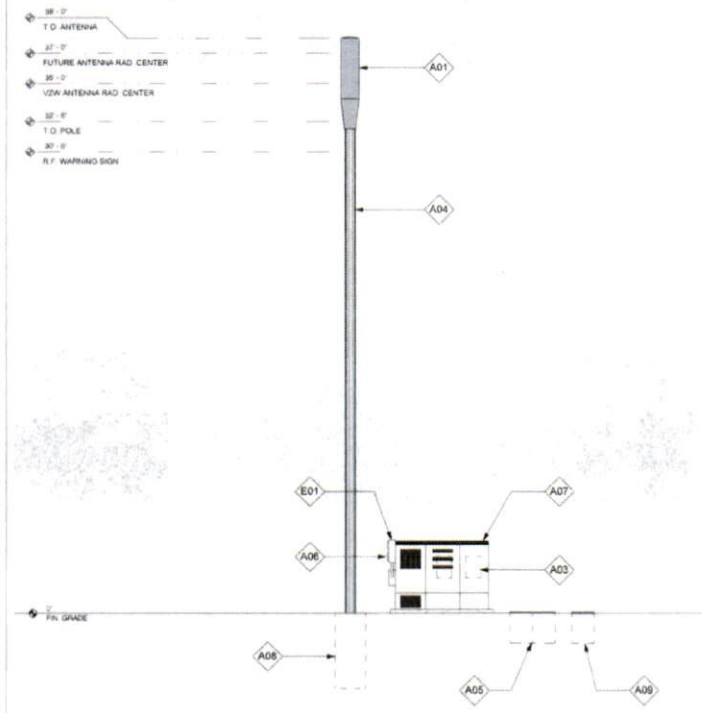
MODEL: AMPHEROL 2CRV102413Ftype
LENGTH: 48"
WIDTH: 14.6" DIA.
DEPTH: NA
WEIGHT: 38.1 LBS

PROPOSED PANEL ANTENNA SPECS

PROPOSED POLE HEIGHT = 8'0"
PROPOSED POLE HEIGHT = 32' - 0"
11 4'-0" ANTENNA AND 1'-0" ANTENNA MOUNT

POLE INFO

APPROVED: 
Development Coordinator
DATE: 11/11/16



POLE ELEVATION (PROPOSED) SCALE: 1/4" = 1'-0" 20



CROWN CASTLE
850 E. JOHN CARPENTER Fwy.
SUITE 300
IRVING, TX 75060

RECORD DRAWINGS ISSUE DATE: 10/16/16



Shift Companies, LLC
7515 E. HEATE (55th Ave)
SCOTTSDALE, ARIZONA 85251
602-954-9400
SH: 961-24-0553

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RELEASE	
DATE	SUBMITTAL
10/28/16	1ST CITY SUBMITTAL
10/18/16	2ND CITY SUBMITTAL

REVISIONS		
NO.	DATE	COMMENT
	10/18/16	CITY COMMENTS

PROJECT NAME
CINCO RANCH EXPANSION

HUB ADDRESS
NODE #CCR-29

FRY RD AND CENTER VILLAGE DR

HUB AREA
CINCO RANCH - HGCV

SHEET JOB NUMBER
150602

SHEET TITLE
POLE ELEVATION, PROPOSED

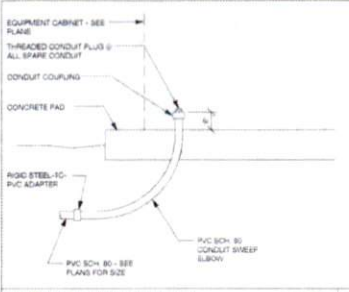
SHEET NUMBER
A1.2

PAGE
6 OF 14

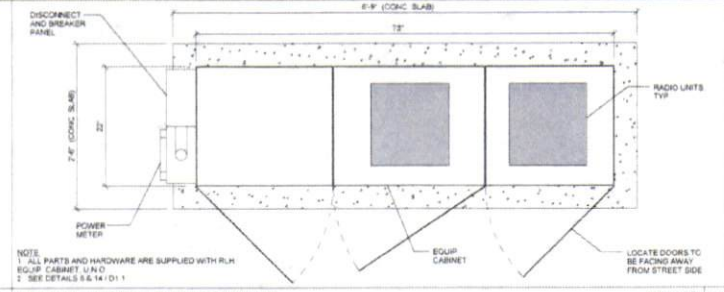
PLOT SCALE: 1/1 @ 24X36; 1/2 @ 11X17

PLAN CHECK #

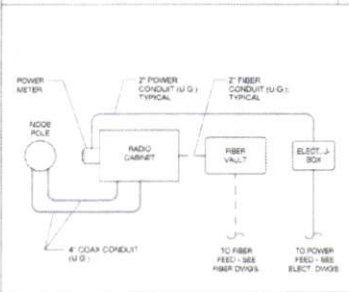
CASE #



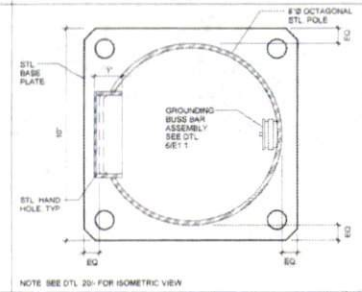
EQUIPMENT CABINET STUB UP DETL SCALE N.T.S. 1



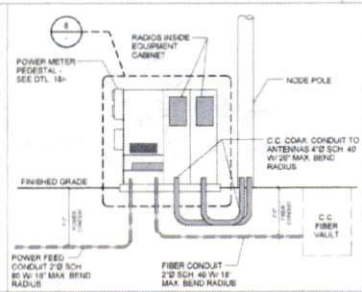
METER / BBU / RADIO EQUIPMENT CABINET PLAN SCALE N.T.S. 2



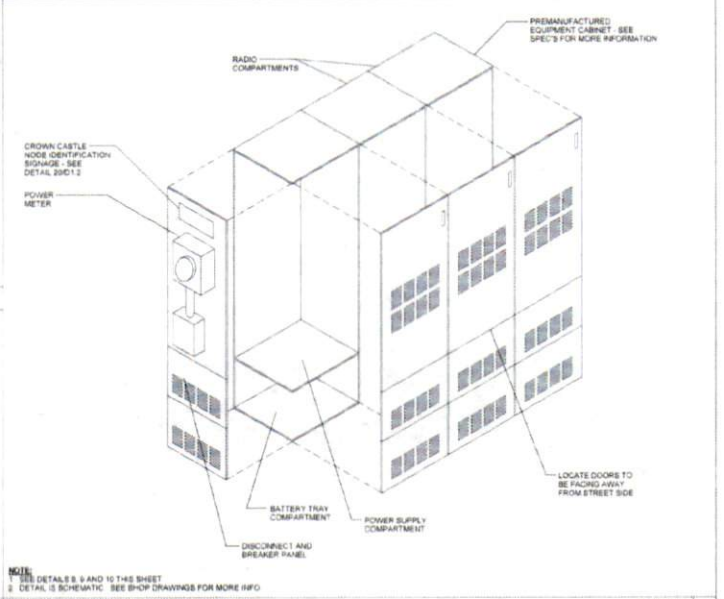
CONDUIT ROUTE SCALE N.T.S. 3



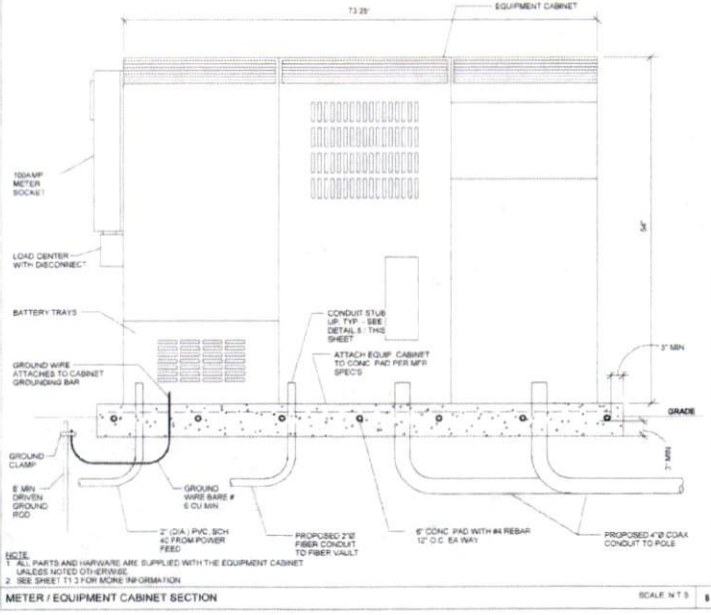
PLAN VIEW @ POLE SCALE N.T.S. 4



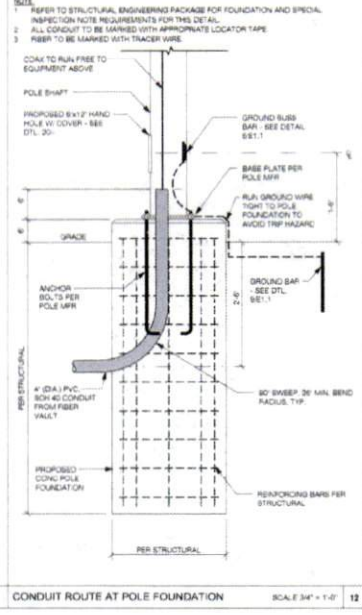
CONDUIT AND POWER RISER DIAGRAM SCALE N.T.S. 5



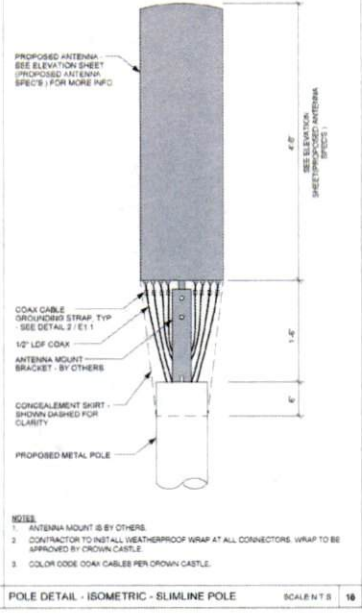
EQUIPMENT CABINET WITH METER ISOMETRIC SCALE N.T.S. 6



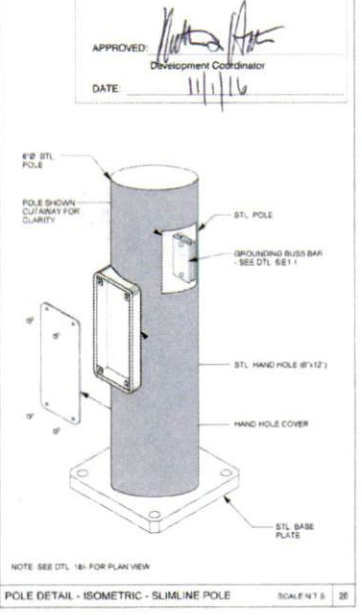
METER / EQUIPMENT CABINET SECTION SCALE N.T.S. 7



CONDUIT ROUTE AT POLE FOUNDATION SCALE 3/4\"/>



POLE DETAIL - ISOMETRIC - SLIMLINE POLE SCALE N.T.S. 8



POLE DETAIL - ISOMETRIC - SLIMLINE POLE SCALE N.T.S. 9



CROWN CASTLE
800 E. JOHN CARPENTER Fwy.
SUITE 300
IRVING, TX 75062

RECORD DRAWINGS - ISSUE DATE: 10.18.15



Shift Companies, LLC
7311 E. HEAVIS WORTH ROAD
MCKINNEY, TEXAS 75067
PH: 972.344.9222
FAX: 972.344.3322

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6/23/14	1ST CITY SUBMITTAL
10/18/15	2ND CITY SUBMITTAL

REVISIONS		
NO.	DATE	COMMENT
	10/18/14	CITY COMMENTS

PROJECT NAME
CINCO RANCH EXPANSION

HUB AREA
CINCO RANCH - HGCW

SHIFT JOB NUMBER
150602

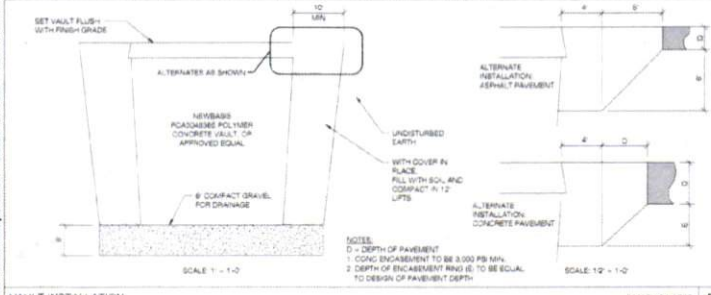
SHEET TITLE
CONSTRUCTION DETAILS

SHEET NUMBER
D1.1

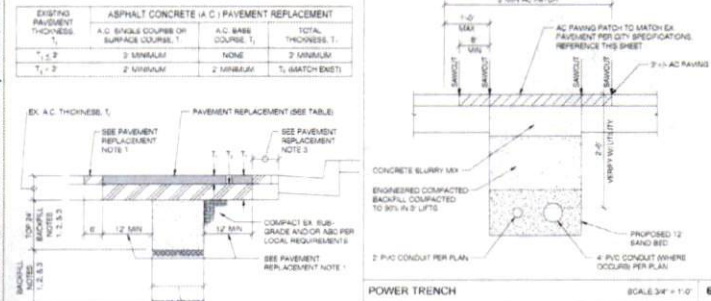
PAGE
7 OF 14

PLOT SCALE: 1/16\"/>

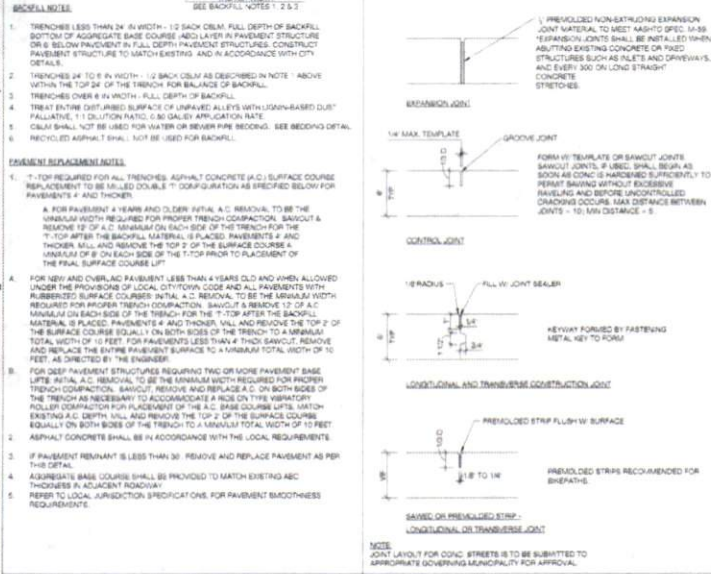
PLAN CHECK # CASE #



VAULT INSTALLATION SCALE 1" = 1'-0" 6



ASPHALT CONCRETE (A.C.) PAVEMENT REPLACEMENT SCALE 3/4" = 1'-0" 6



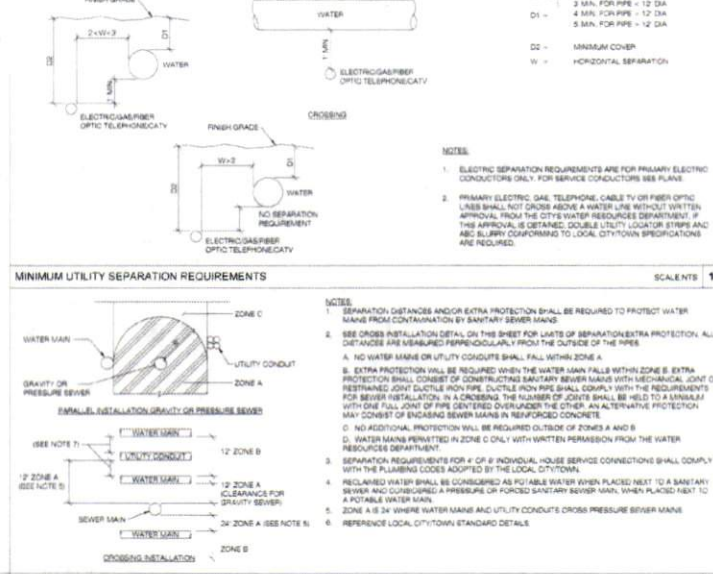
TRENCH AND PATCHING REQUIREMENTS SCALE 1" = 1'-0" 4



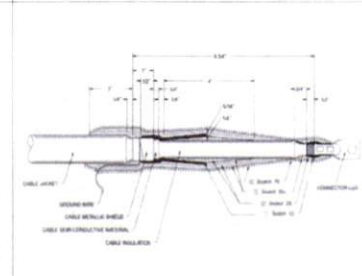
COAX WATERPROOFING - JMA TYPE SCALE 1/2" = 1'-0" 18



MINIMUM UTILITY SEPARATION REQUIREMENTS SCALE 1/2" = 1'-0" 16



SANITARY SEWER SEPARATION / PROTECTION FROM WATER & UTILITIES SCALE 1/2" = 1'-0" 16



COAX WATERPROOFING - FUSION TAPE TYPE SCALE 1/2" = 1'-0" 19



CROWN CASTLE
800 E. JOHN CARPENTER Pkwy.
SUITE 500
IRVING, TX 75062

RECORD DRAWINGS ISSUE DATE: 10/14/16



SHIFT Companies, LLC
11111 N. HOUSTON ROAD
SCOTTSDALE, ARIZONA 85257
PH: 480.248.3007
WWW.SHIFT-COM.COM

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RELEASE	
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8/13/16	1ST CITY SUBMITTAL
10/16/16	2ND CITY SUBMITTAL

REVISIONS		
NO.	DATE	COMMENT
10/16/16		CITY COMMENTS

PROJECT NAME
CINCO RANCH EXPANSION

HUB AREA

CINCO RANCH - HGCV

SHIFT JOB NUMBER IN HOUSE

150602 DRAWN BY: BA

CHECKED BY: CM

SHEET TITLE

CONSTRUCTION DETAILS

SHEET NUMBER PAGE

D12 8 OF 14

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

PLAN CHECK #

CASE #



APPROVED: *[Signature]*
 Development Coordinator
 DATE: 11/1/16

CROWN CASTLE
 CROWN CASTLE
 802 E. JOHN CARPENTER Fwy.
 SUITE 300
 IRVING, TX 75062

RECORD DRAWING ISSUE DATE: 10.18.16

SHIFT
 Shift Companies, LLC
 5111 E. HEATH RD. #100
 DALLAS, TEXAS 75246
 PH: 972.948.8200
 WWW.SHIFT.COM

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10/18/16	2ND CITY SUBMITTAL

REVISIONS		
NO.	DATE	COMMENT
	10/18/16	CITY COMMENTS

PROJECT NAME
CINCO RANCH EXPANSION

NODE ADDRESS
NODE #:CCR-29
FRY RD AND CENTER VILLAGE DR

HUB AREA
CINCO RANCH - HGCV

SHIFT JOB NUMBER **150602** IN HOUSE
 DRAWN BY: RA
 CHECKED BY: CR

SHEET TITLE
ELECTRICAL PLANS

SHEET NUMBER **E1.0** PAGE **9 OF 14**

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

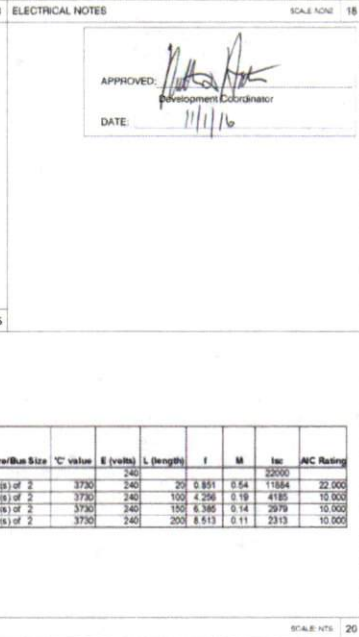
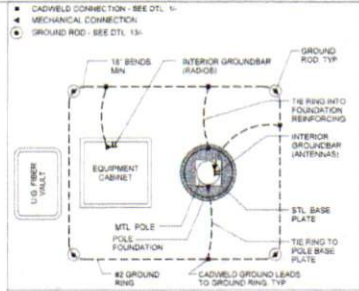
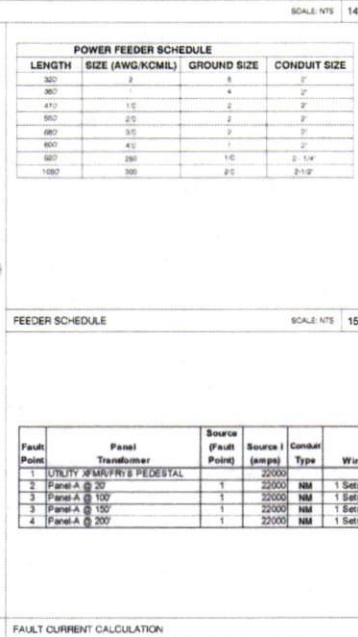
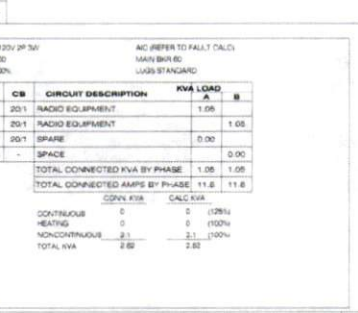
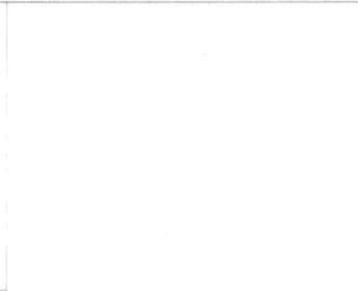
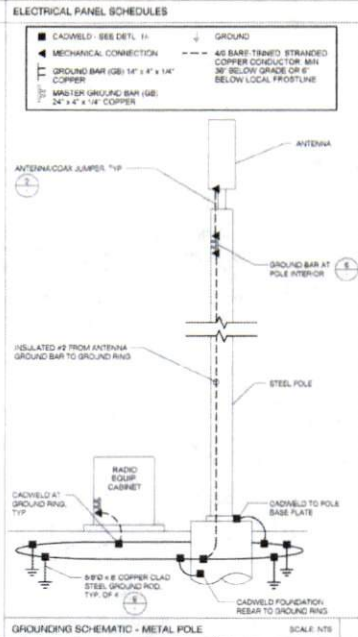
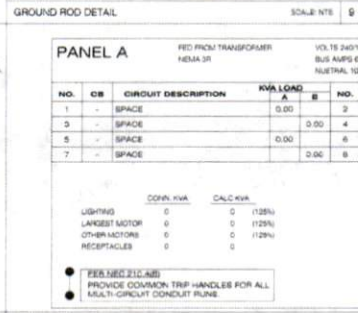
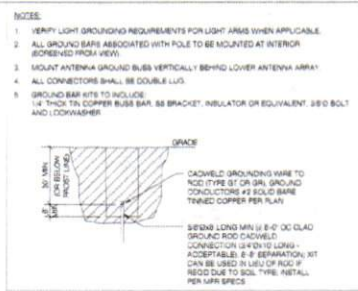
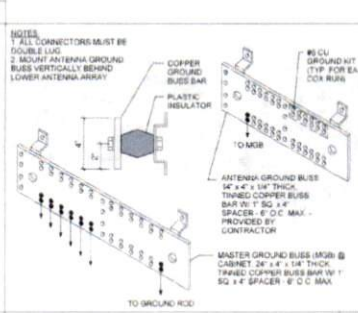
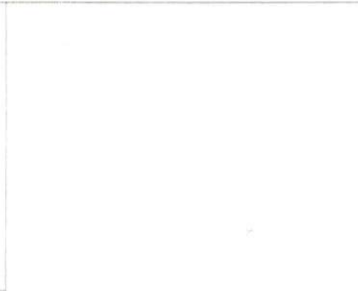
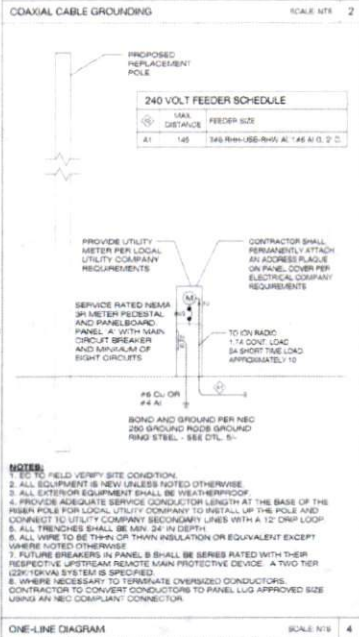
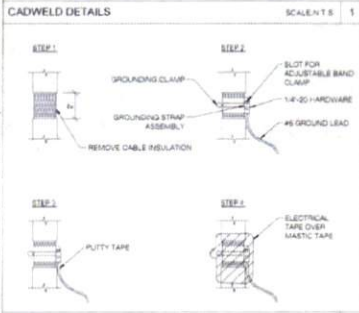
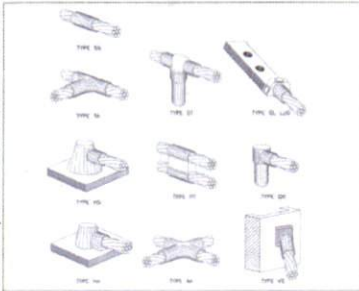
ENLARGED ELECTRICAL PLAN

1/2" = 1'-0" 8 ELECTRICAL SITE PLAN

1" = 20'-0" 20

PLAN CHECK #

CASE #



CROWN CASTLE
 800 E. JOHN CARRETER HWY.
 SUITE 300
 IRVING, TX 75062

RECORD DRAWINGS: ISSUE DATE: 10/16/16

SHIFT
 Shift Companies, LLC
 11111 HOVE WITHSOME
 SUITE 1000
 HOUSTON, TX 77057

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REVISIONS

NO.	DATE	DESCRIPTION
1	10/16/16	CITY COMMENTS

PROJECT NAME
 CINCO RANCH EXPANSION

HUB AREA
 CINCO RANCH - HGCV

SHIFT JOB NUMBER
 150602

SHEET TITLE
 ELECTRICAL DETAILS

SHEET NUMBER
 E1.1

PAGE
 10 OF 14

PLOT SCALE
 1" = 24'-0" (1.2" = 11'-0")

PLAN CHECK #

CASE #