HISTORIC AND DESIGN REVIEW COMMISSION October 21, 2020

HDRC CASE NO: 2020-457

ADDRESS: ROW near 502 BONHAM

LEGAL DESCRIPTION: NCB 554 BLK LOT 35A, 36A & 37A

ZONING: D **CITY COUNCIL DIST.:** 1

APPLICANT: Lourdes Mendoza/Extenet Systems **OWNER:** HGP PARKING LOT CORP

TYPE OF WORK: Installation of a new network wood pole

APPLICATION RECEIVED: August 24, 2020

60-DAY REVIEW: Not applicable due to City Council Emergency Orders

CASE MANAGER: Huy Pham

REQUEST:

The applicant is requesting a Certificate of Appropriateness for approval to install a new pole for network node equipment at 29.427293, -98.483232, in the right-of-way near 502 Bonham.

APPLICABLE CITATIONS:

Historic Design Guidelines

6. Non-Residential and Mixed Use Streetscapes

A. STREET FURNITURE

- i. *Historic street furniture*—Preserve historic site furnishings, including benches, lighting, tree grates, and other features.
- ii. *New furniture*—Use street furniture such as benches, trash receptors, tree grates, and tables that are simple in design and are compatible with the style and scale of adjacent buildings and outdoor spaces when historic furnishings do not exist.

UDC Sec. 37 - Appendix A. - Right-of-way Network Node Design Manual

b. Design District Aesthetic Requirements.

In addition to the design requirements in Division III of this Manual, the following aesthetic requirements shall apply in Design Districts:

- 1. New node support poles in districts designated as Design Districts in this Manual shall be placed within ten feet of interior lot lines.
- 2. In no event shall new node support poles be placed in front of the front façade of primary structures on any property designated as Historic or within fifteen hundred (1500) feet of the brass monument viewshed marker in front of a structure designated by the United Nations as a UNESCO World Heritage site.
- 3. Network nodes, node support poles, and related equipment shall require camouflage or concealment measures to mitigate the impact or improve the aesthetics of the installation, as determined by the Historic Preservation Officer based on the unique circumstances of the design district or impacted property.
 - A. New network nodes mounted to existing poles shall be low profile and flush mounted to the greatest extent feasible. Network nodes must be painted to match the support pole or structure on which they are mounted.
 - B. The installation of new node support poles is discouraged in Historic Districts, Downtown "D", River Improvement Overlay Districts, Viewshed Protection and Mission Protection Overlay Districts. The Historic Preservation Officer may require concealment of the support pole in the form of aesthetically appropriate street lamps, site elements, district signage, or other stealth methods. The color of any new support pole or concealment solution shall be determined by the Historic Preservation Officer based on site specific conditions.
 - i. New node support poles must generally be located at commercial corners and intersections.
 - ii. New node support poles must be separated from other node support poles or existing poles by a distance of 250 feet.
 - iii. Where a separation requirement cannot be met, network nodes are preferred to be mounted to existing poles or installed with a stealth method.

- iv. The height of new node support poles should not exceed the established predominant height of other poles and historic site elements located within 500 feet of the proposed installation.
- v. New node support poles must be painted and not exceed 8" in diameter at the widest portion of the pole.
- C. Ground-mounted equipment must be integrated into the overall design of an installation, camouflaged or concealed based on site specific conditions, and positioned to mitigate visual or physical obstructions to nearby historic features as recommended by the Historic Preservation Officer.

c. Decorative Poles.

In accordance with Chapter 284, installation or attachment of wireless communications equipment, including antennas, network nodes, transport facilities, and related equipment is prohibited on all decorative streetlight poles in Design Districts.

(Ord. No. 2017-08-31-0609, § 1, 8-31-17)

FINDINGS:

- a. PURVIEW The applicant has proposed to install a new wood pole featuring network node equipment and luminaire arm at 29.427293, -98.483232, in the right-of-way near 502 Bonham. The proposed location is adjacent to the parking of the individual landmark at 119-131 McCullough and across the street from 3 other individual historic landmarks. Per the Unified Development Code Sec. 37, the network node must be in compliance with Appendix A. Right-of-way network node design manual: Division IV. General Aesthetic Requirements and Division V. Additional Aesthetic Requirements in Design Districts in addition to the Historic Design Guidelines for Site Elements.
- b. PROJECT DESCRIPTION The applicant has provided the following project description: "Extenet-Node-SA1005BA_81LAB COSA-11300-20200806 Originally submitted to COSA on 3/5/20 under 355247. Small Cell Node to be placed on a proposed Extenet Owned pole located at 29.427293, -98.483232 for Extenet Systems. Shroud to be placed on the pole with an integrated in the comm space of the pole. Pole is located on the east side of 4th Street. The COSA issued address is 580 4th Street, San Antonio, TX 78215."
- c. LOCATION The applicant has proposed to install a new wood pole featuring network node equipment and luminaire arm at 29.427293, -98.483232, in the right-of-way near 502 Bonham. The proposed location is adjacent to the parking of the individual landmark at 119-131 McCullough and across the street from 3 other individual historic landmarks. Per the Design Manual 3.B.i., new poles must be generally located at commercial corners and intersections. Staff finds the proposed poll does not bisect any historic or commercial facades nor disrupt the pedestrian experience.
- d. SEPARATION The applicant has proposed to install the new pole within the immediate block as multiple existing utility poles. Per the Design Manual 3.B.ii., new poles must be separated from existing poles by 250 feet. Staff finds that the proposed location is not separated by more than 250 feet and that the proposed location is particularly crowded with existing variety of poles.
- e. COLLOCATION Per the Design Manual 3.B.iii, where a separation requirement cannot be met, new nodes are preferred to be mounted to existing poles or installed with a stealth method. Staff finds that a collocation on existing poles should be explored prior to consideration of a new stealth pole. A letter from the owner-operator of the existing nearby poles (CPS Energy) and/or an engineer's letter noting the feasibility of collocation will suffice as a supporting document for this finding.
- f. HEIGHT The applicant has proposed to install a wood pole including node equipment featuring a total of thirty feet (30') from grade. Per the Design Manual 3.B.iv., the height of new node support poles should not exceed the established predominant height of other poles and historic site elements located within 500 feet of the proposed installation. Staff finds that the proposed height is subordinate to existing poles within proximity.
- g. DIAMETER The applicant has proposed to install a pole that is typical width of a Class 3 wood utility pole. Per the Design Manual 3.B.v., new poles should not exceed 8 inches (8") in diameter at the widest portion of the pole. Staff finds that the proposed pole width to by typical of existing wood utility poles.
- h. DESIGN The applicant has proposed to install a wood pole that features a cylindrical antenna at the top, a luminaire arm, a rectangular cabinet radio at mid-pole, and conduit and meter/disconnect approaching pedestrian and ground level. The applicant referenced existing wood utility poles in selecting the pole type in this location and included a luminaire arm in an effort to meet stealth and multi-purpose provisions. Per

the Design Manual 3.B.: The Historic Preservation Officer may require concealment of the support pole in the form of aesthetically appropriate street lamps, site elements, district signage, or other stealth methods. The color of any new support pole or concealment solution shall be determined by the Historic Preservation Officer based on site specific conditions. Staff finds the proposed design adequately relates to surrounding features without detracting from historic features or the pedestrian experience with the stipulation that all network node equipment is painted, manufactured or screened to mimic the pole color.

i. TRENCHING –If approved, any disturbance of sidewalk or streetscaping should be restored to the condition prior to installation. The project shall comply with all federal, state, and local laws, rules, and regulations regarding archaeology.

RECOMMENDATION:

Staff does not recommend approval of the new network pole based on findings d. separation between existing poles. If the commission is compelled to approve, staff recommends that all network node equipment is painted, manufactured or screened to mimic the pole color.

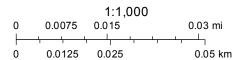
If approved, the project shall comply with all federal, state, and local laws, rules, and regulations regarding archaeology.

Approval from the Historic Design Review Commission does not omit or supersede any additional permissions required by CPS Energy or related permitting City departments.

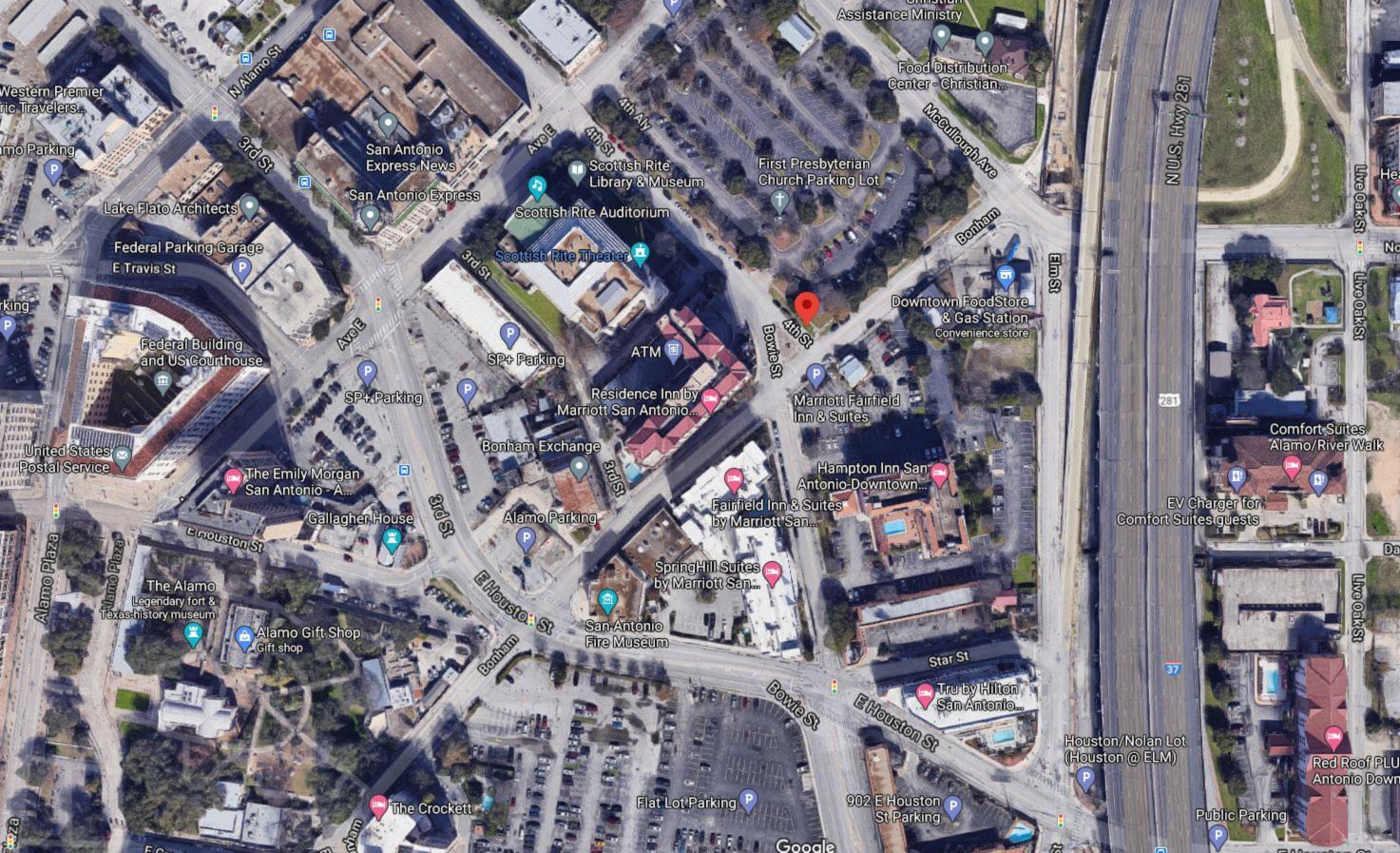
ROW near 502 Bonham



October 13, 2020









NODE SITE 4TH ST., EXTENET POLE#UNK

ADDRESS 580 4TH ST., SAN ANTONIO, TX 78215

TYPE OF

POLE OWNER:

LATITUDE: 29.427293°

LONGITUDE: -98.483232°

EXTENET TO PLACE 45' CONSTRUCTION: CLASS 3 UTILITY POLE

ELEVATION:

JURISDICTION.

CITY OF SAN ANTONIO PERMIT NUMBER:

HUB NAME: SA1001GA

ZONING: PUBLIC RIGHT OF WAY

OCCUPANCY: UNMANNED HANDICAP

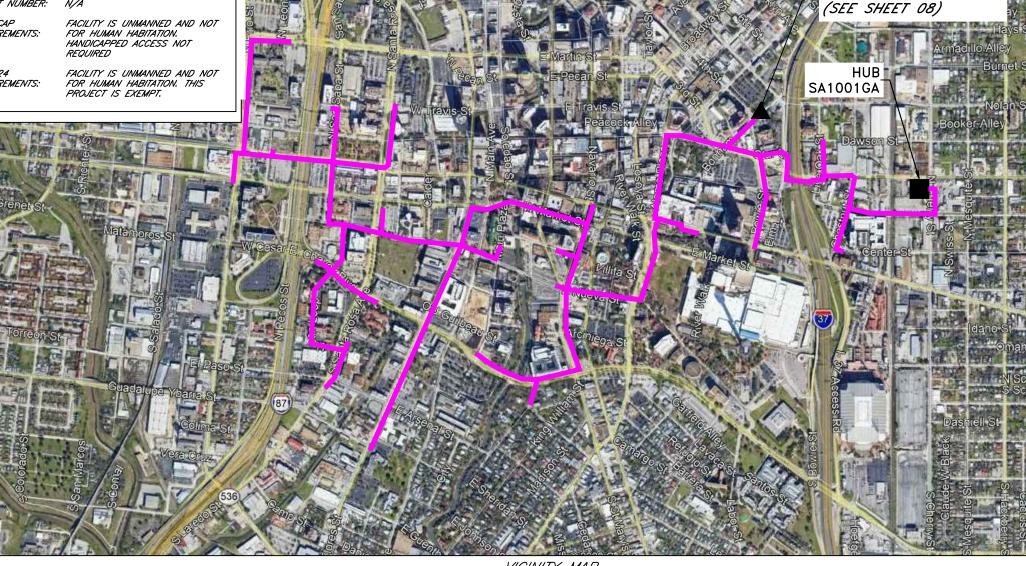
REQUIREMENTS:

EXTENET

TITLE 24 REQUIREMENTS:

PROJECT LOCATION

AREA MAP NOT TO SCALE





			TDC2	1DC2	BY	
			04/03/20 REVISION	ISSUED FOR REVIEW	DESCRIPTION	0,10,0,, 00
			04/03/20	02/12/10	REV DATE	
			`	V	13Y	

VICINITY MAP NOT TO SCALE

EMAIL

PROJECT DESCRIPTION

THESE DRAWINGS DEPICT A PORTION OF A DISTRIBUTED ANTENNA SYSTEM (DAS) TELECOMMUNICATIONS NETWORK, TO BE CONSTRUCTED, OWNED AND OPERATED BY EXTENET SYSTEMS, IN THE PUBLIC RIGHT OF WAY/PUBLIC UTILITY EASEMENT PURSUANT TO AUTHORITY GRANTED BY THE TEXAS PUBLIC UTILITIES COMMISSION.

THE MAIN COMPONENTS OF THIS INSTALLATION ARE: THE INSTALLATION OF ONE (1) ANTENNA, THREE (3) RADIO UNITS, ONE (1) POWER EQUIPMENT, ASSOCIATED ELECTRICAL COMPONENTS, AND MOUNTING BRACKETS AS REQUIRED. TO BE PLACE ON NEW EXTENET UTILITY POLE.

<u>CODE COMPLIANCE</u>

ALL WORK AND MATERIALS SHALL BE PERFORMED AND INSTALLED IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE FOLLOWING CODES AS ADOPTED BY THE LOCAL GOVERNING AUTHORITIES. NOTHING IN THESE PLANS IS TO BE CONSTRUCTED TO PERMIT WORK NOT CONFORMING TO THESE CODES. . Texas Building Code

2. TEXAS ADMINISTRATIVE REGULATIONS

3. ANSI / EIA-222-F LIFE SAFETY CODE NFPA

. BUILDING OFFICIALS AND CODE ADMINISTRATOR (BOCA) TEXAS ELECTRICAL CODE NEC-2006

6. TEXAS MECHANICAL CODE IMC-2006 7. TEXAS PLUMBING CODE UPC-2015 8. LOCAL BUILDING CODE(S)

9. CITY AND/OR COUNTY ORDINANCES 10. MUST COMPLY TO LATEST TEXAS FIRE CODE (AND LATEST MUNICIPAL FIRE CODE)

CONTACTS

DEPT.

VERNON ROWE - EXTENET SCOTT CRUM — ENGINEERING (FIBER DESIGN) RONNIE TEAFF — PROJECT MANAGER ALEX JARAMILLO — DESIGN SPECIALIST

<u>CONTACT</u>

VROWE@EXTENETSYSTEMS.COM 817-994-6794 SCRUM@TDC2.COM 972-489-9376 RTEAFF@TDC2.COM AJARAMILLO@TDC2.COM

214-893-4658 469-688-8566

PHONE

EXTENET SYSTEMS, INC. EXPRESSLY RESERVES ITS RIGHTS UNDER CHAPTER 283 OF THE TEXAS GOVERNMENT CODE AND IS NOT WAIVING ANY OF ITS RIGHTS UNDER CHAPTER 283 OR ANY OTHER STATE



634 N. BALLARD WYLIE, TX 75098 OFFICE: 972-442-7005 FAX: 972-578-0517

CAUTION

INDEX

DESCRIPTION

NODE INSTALLATION DRAWINGS

COVER

SITE PLAN

SHEET NUMBER

2-7

SC TX SA1005BA_81LAB

CONTRACTOR SHALL NOTIFY THE CITY OF SAN ANTONIO DEPARTMENT OF PUBLIC WORKS AND ENGINEERING, OFFICE OF THE CITY ENGINEER, 48 HOURS BEFORE STARTING WORK ON THIS PROJECT, TELEPHONE NO. (210) 335–6700

- 1		
ı		
I	PROJECT NUMBER:	
ı	FILE NAME:	
ı	DATE DRAWN:	01/21/20
I	SCALE:	N.T.S.
I	DRAWN BY:	TDC2
1	DESIGNED BY:	TDC2

008

LAW BY FILING FOR PERMITS WITH THE CITY." FOREIGN UTILITY LOCATIONS ARE APPROXIMATE. CONTACT THE LOCAL ONE CALL AGENCY 48 HOURS PRIOR TO CONSTRUCTION TOTAL SHT: FOR EXACT UTILITY LOCATIONS AT: "TEXAS 811", AT 1-800-344-8317 *(1–800–344–8377* 001

STANDARD GROUNDING NOTES:

- 1. THE COMPLETED GROUNDING SYSTEM SHALL CONFORM TO TIA-607-B, AND SHALL BE TESTED VIA AN APPROVED GROUND RESISTANCE TEST UNIT (I.E., STAKELESS CLAMP-ON GROUND RESISTANCE METER, OR TWO-POINT / THREE-POINT FALL OF POTENTIAL TESTER, IN ACCORDANCE WITH THE MANUFACTURER'S TEST PROCEDURES) TO ACHIEVE / DOCUMENT GROUND RESISTANCE OF 5 OHMS OR LOWER.
- 2.GROUND RÓDS SHALL BE CONSTRUCTED OF COPPER-CLAD STEEL AND EITHER OF THE FOLLOWING TWO SIZE OPTIONS IS APPROVED, AS MAY BE REQUIRED TO ACHIEVE GROUND RESISTANCE OF 5 OHMS OR LOWER: a.5/8" X 8 FEET LONG. OR

a.5/8" X 8 FEET LONG, OF b.3/4" X 10 FEET LONG.

- 3.GROUND ROD TO BE LOCATED NO NEARER THAN 36" FROM EXISTING POLE GROUND, BE INSTALLED TO A MINIMUM OF 6 INCHES BELOW GRADE, AND THE GROUND CONDUCTOR SHALL BE EXOTHERMICALLY WELDED TO THE GROUND BAR.
- 4.GROUND CONDUCTOR BETWEEN GROUND ROD AND LOAD CENTER / MAIN GROUNDING BUSBAR SHALL BE #6 AWG STRANDED COPPER INSTALLED 6" BELOW GRADE UNTIL TURNING VERTICALLY FOR MOUNTING TO THE WOODEN UTILITY POLE.
- 5.THE COPPER GROUND CONDUCTOR SHALL BE COVERED FROM SLIGHTLY BELOW GRADE TO THE LOAD CENTER WITH 1" PLASTIC U-GUARD VERTICAL RACEWAY.

STANDARD CONDUIT NOTES:

- 1. ALL UNDERGROUND FIBER OPTIC CABLES SHALL BE INSTALLED IN CONDUITS, EITHER PVC SCHEDULE 40 OR SDR-11 HDPE.
- 2. FIBER OPTIC RISER CONDUITS SHALL BE CONSTRUCTED FROM 1-1/2" RIGID GALVANIZED STEEL (RCS), EXTENDING FROM 12" BELOW GRADE TO APPROXIMATELY 10' HIGH, OR JUST BELOW FIBER CABINET, WHERE IT WILL TRANSITION TO 1" NON-METALLIC LIQUIDTIGHT FLEXIBLE CONDUIT FOR PENETRATION INTO THE CABINET.

STANDARD TRENCHING NOTES:

- 1. MINIMUM CONDUIT DEPTH FOR FIBER OPTIC / ELECTRICAL CONDUITS IS 42" BELOW GRADE, EXCLUDING THE SHORTEST PRACTICAL RADIUS WHERE THE CONDUIT TRANSITIONS TO A VERTICAL POLE RISER.
- 2.WHERE CONDUITS ARE PLACED VIA OPEN TRENCH, THERE SHALL BE A WARNING TAPE
 PLACED 24" ABOVE THE FIBER OPTIC CONDUIT (E.G., CAUTION: BURIED FIBER OPTIC CABLE
 BFI OW).
- 3. IN ARÉAS OF OPEN TRENCH CONSTRUCTION, CONTRACTOR SHALL INSTALL 6" SAND BED BELOW CONDUITS, AND A 12" SAND BACKFILL ABOVE CONDUITS, PRIOR TO USING NATIVE BACKFILL, MAXIMUM 6" LIFTS WITH 95% COMPACTION WHERE NATIVE BACKFILL IS USED TO RESTORE EXCANATED TRENCH AREAS.

<u>POLE/GENERAL CONSTRUCTION NOTES:</u>

- 1. CONTRACTOR SHALL REMOVE / CLEAN ALL DEBRIS, NAILS, STAPLES, OR NON-USED VERTICALS OFF THE POLE.
- 2. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH ALL APPLICABLE STANDARDS AND REGULATIONS, INCLUDING THE POLE OWNER / UTILITY, MUNICIPAL, COUNTY, STATE, AND FEDERAL AGENCIES.
- 3. NOT LESS THAN 48 HOURS PRIOR TO EXCAVATION, CONTRACTOR SHALL CALL (TEXAS ONE—CALL SYSTEM) AT (800) 344-8377.
- 4. ALL LANDSCAPING / SITE CONDITIONS SHALL BE RESTORED TO ORIGINAL CONDITION, OR BETTER.

GENERAL NOTES:

- 1. EXISTING UNDERGROUND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE RECORDS WITH FIELD OBSERVATIONS, BUT ARE NOT NECESSARILY EXACT. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY UTILITY LOCATIONS AT LEAST 100 FEET IN ADVANCE OF TRENCHING, PLOWING, OR BORING OPERATIONS, SO THAT CHANGES IN CABLE PLACEMENT CAN BE MADE IN ADVANCE OF CONFLICTS. 2. ALL KNOWN BURIED OBSTRUCTIONS ARE SHOWN ONE THE CONSTRUCTION DRAWINGS. ANY AND ALL
- 2. ALL KNOWN BURIED OBSTRUCTIONS ARE SHOWN ONE THE CONSTRUCTION DRAWINGS. ANY AND ALL OTHER BURIED OBSTRUCTIONS ENCOUNTERED ARE THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE, PROTECT, AND REPAIR (IF DAMAGED).
- LOCATE, PROTECT, AND REPAIR (IF DAMAGED).

 3. THE CONTRACTOR SHALL CONTACT THE LOCAL ONE CALL AGENCY NOT LATER THAN 48 HOURS PRIOR TO CONSTRUCTION TO LOCATE EXACT UTILITY LOCATIONS AT "JULIE CALL BEFORE YOU DIG" (800) 344—8377. CONTRACTOR SHALL VERIFY IN THE FIELD THE EXACT LOCATIONS OF BURIED UTILITIES BEFORE COMMENCING CONSTRUCTION.
- 4. ANY AND ALL SITE IMPROVEMENTS INCLUDING, BUT NOT LIMITED TO, ASPHALT OR CONCRETE PAVEMENT, CURBS, GUTTERS, WALKS, DRAINAGE DITCHES, EMBANKMENTS, SHRUBS, TREES, GRASS SOD, SHALL BE RESTORED BY THE CONTRACTOR TO ORIGINAL OR BETTER CONDITION.
- 5.THE CONTRACTOR SHALL ADHERE TO THE RULING VERSION OF THE NESC (NATIONAL ELECTRIC SAFETY CODE) RULES, OR LOCAL MUNICIPAL, UTILITY, COUNTY, STATE, OR FEDERAL RULES, WHICH MAY ALTER THE CONSTRUCTION SPECIFICATIONS SHOWN.
- 6. INSTALLED MATERIALS SHALL NOT EXCEED THE MANUFACTURER'S SPECIFICATIONS / RECOMMENDATIONS. ALL AERIAL CABLE SPANS SHALL BE PROPERLY SAGGED AND MAINTAIN NOT LESS THAN THE MINIMUM ALLOWED DISTANCE FROM UTILITY LINES AS REQUIRED.
- 7. ALL PROPOSED NEW FACILITIES SHALL MAINTAIN NOT LESS THAN 12" SEPARATION FROM ALL PUBLIC / PRIVATE UTILITIES, UNLESS SPECIFIED OTHERWISE ON THE CONSTRUCTION DRAWINGS.
- 8.THE CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGES AND RESTORATION OF ANY WATER, WASTE WATER, STORM WATER, ELECTRICAL, NATURAL GAS, OR TRAFFIC CONTROL FACILITIES. ALL RESTORATION WORK SHALL FULLY CONFORM TO THE APPROPRIATE CITY, MUNICIPAL, COUNTY, STATE, FEDERAL, AND UTILITY SPECIFICATIONS.

 9. CONTRACTOR SHALL TAKE REASONABLE, NECESSARY PRECAUTIONS TO PROTECT ROOT SYSTEMS OF
- 9. CONTRACTOR SHALL TAKE REASONABLE, NECESSARY PRECAUTIONS TO PROTECT ROOT SYSTEMS OF SHRUBS, PLANTS, AND TREES ALONG EXCAVATED AREAS.
- 10. CONTRACTOR SHALL MAINTAIN ONSITE A SET OF REDLINE DRAWINGS, RECORDING "AS BUILT" CONDITIONS DURING CONSTRUCTION. AT COMPLETION OF CONSTRUCTION, THESE REDLINE, MARKED UP DRAWINGS SHALL BE SUBMITTED TO THE DESIGN CONSULTANT SO THAT FINAL RECORD DRAWINGS CAN BE PREPARED AND SUBMITTED TO THE OWNER AND OTHER PERMITTING AGENCIES AS MAY BE REQUIRED.

CONSTRUCTION NOTES:

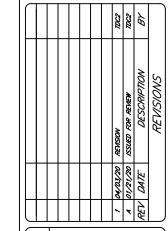
- 1. ALL CONDUIT SHALL BE 2" HDPE SDR-11, UNLESS SPECIFIED OTHERWISE.
- 2. ALL UNDERGROUND OBSTRUCTIONS (WHEN LOCATED) SHALL REQUIRE PLACEMENT OF A BURIED CABLE MARKER, AND INSTALLATION OF A 2" HDPE SDR-11 CONDUIT, OVER OR UNDER EACH OBSTRUCTION, IN AREAS WHERE CONDUIT IS NOT OTHERWISE SPECIFIED.
- 3. ALL BURIED CONDUIT / CABLE SHALL BE PLACED AT 48" MINIMUM COVER, UNLESS OTHERWISE SPECIFIED ON THE CONSTRUCTION DRAWINGS.
 4. RAILROAD COMMUNICATION AND SIGNALIZATION CABLES SHALL BE LOCATED NO LATER THAN
- 4. RAILROAD COMMUNICATION AND SIGNALIZATION CABLES SHALL BE LOCATED NO LATER THAN 48 HOURS PRIOR TO CONSTRUCTION, BY CONTACTING THE RAILROAD ROW OWNER.

ROW UTILITY POLE CONSTRUCTION NOTES:

- 1. NO BOLT THREADS SHALL PROTRUDE FROM THE POLE MORE THAN 1-1/2".
- 2. FILL ALL HOLES LEFT IN POLE FROM REARRANGEMENT OF CLIMBING PÉGS. 3. ALL CLIMBING PEGS NEXT TO CONDUIT SHALL HAVE EXTENDED LENGTH.
- 4. CABLE NOT TO IMPEDE 15" CLEAR SPACE OFF POLE FACE (12:00 POSITION). 5. CABLE 90" SHORT SWEEPS, ROUTES, OR TRANSITIONS SHALL ONLY BE PLACED ON THE INSIDE OR BOTTOM OF ANTENNA ARMS. NO CABLING SHALL BE INSTALLED ON THE TOP OF ANY SUPPORT ARMS.
- 6. USE CABLE CLAMPS TO SECURE CABLE TO SUPPORT ARMS. PLACE 2" IDENTIFICATION TAGS ON BOTH SIDES OF SUPPORT ARMS TO IDENTIFY OWNER. 7. USE 90° CONNECTORS FOR RF CONNECTION TO ANTENNAS.
- 7. USE SU CONNECTIONS FOR AT CONNECTION TO ANTENNAS.

 8. SOME LOCATIONS MAY INCLUDE INTERNAL GPS COMPONENTS. CONTRACTOR SHALL FOLLOW SPECIFIC INSTRUCTIONS FOR GPS ANTENNA INSTALLATION ON A PER SITE BASIS.
- 9.COAXIAL CABLE SHALL MEET LMR-400 SPECIFICATION (500, TYPICAL OUTER DIAMETER 0.4", 10. AFTER CABLE PLACEMENT, USE FOAM SEALANT TO FILL VOID AROUND CABLES AT CONDUIT OPENINGS TO PREVENT WATER INTRUSION.

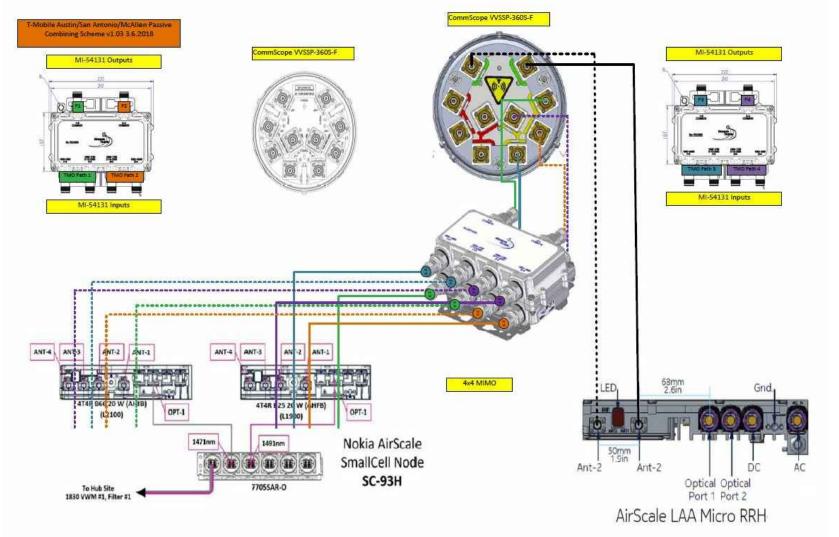


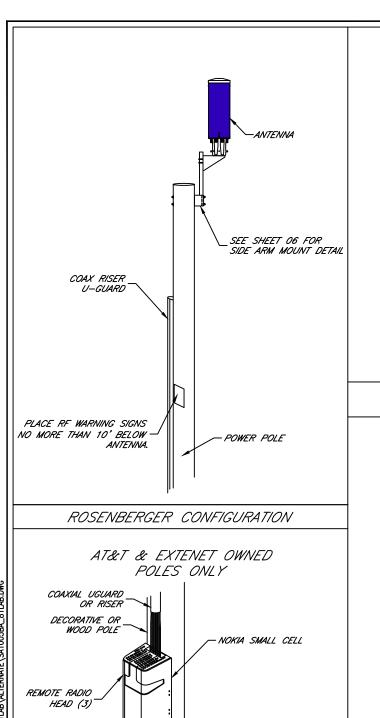


SITE NAME: SC TX SA1005BA_81LAB SITE ADDRESS: 580 4TH ST. SAN ANTONIO, TX 78215

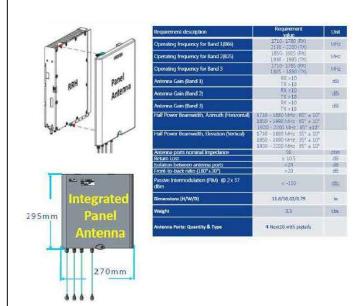


TDC2
TDC2
N. T.S.
01/21/20
P:
TOTAL SHT:









SEMI-INTEGRATED PANEL AAFA

-*8 7/8"*

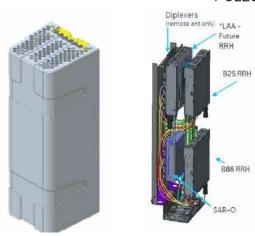
SQUARE D QO8-16L100RB LOAD CENTER





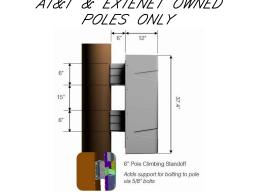
DESIGNED BY:	TDC2
DRAWN BY:	TDC2
SCALE:	N. T.S.
DATE DRAWN:	01/21/20
FILE NAME:	•
PROJECT NUMBER	P:
SHEET:	TOTAL SHT:
00.3	008

AT&T & EXTENET OWNED POLES ONLY



HEIGHT= 3.08' WIDTH= 1.025' DEPTH= 1' CUBIC FEET= 3.157

NOKIA SMALL CELL SITE





866-892-5327 Y BACK MINIMUM OF 3 FEET FRO

COMMSCOPE - SMALL CELL ANTENNA (VVSSP-65S-R1B)

¥-7.91

AT&T & EXTENET OWNED



RF WARNING SIGNAGE

METER TYPE SPEC PROVIDED BY LOCAL

ELECTRIC SERVICE PROVIDER.

LOAD CENTER -

POWER PATHWAY TBD

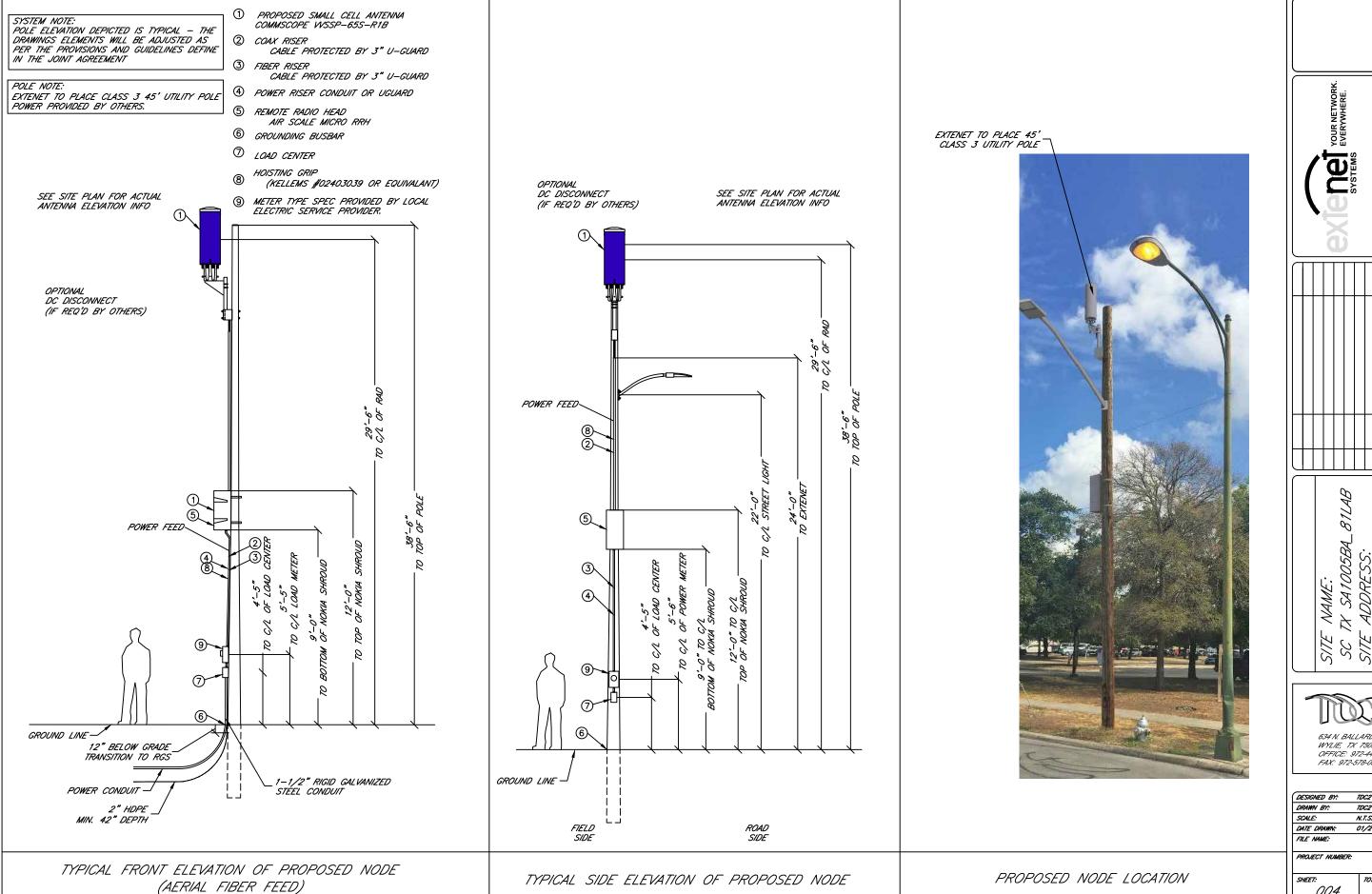
RISER OR UGUARD -

PLACE RF WARNING SIGNS AT 7' AGL ON OPPOSITE
SIDES(180° SEPARATION)
OF UTILITY POLE. POSITION SIGNS TO MAINTAIN CLEARANCE FROM AC DISCONNECT/CONDUIT SYSTEMS.

EQUIPMENT CONFIGURATION

POWER INSTALLATION TO -VARY PER ELECTRIC SERVICE PROVIDER

-FIBER

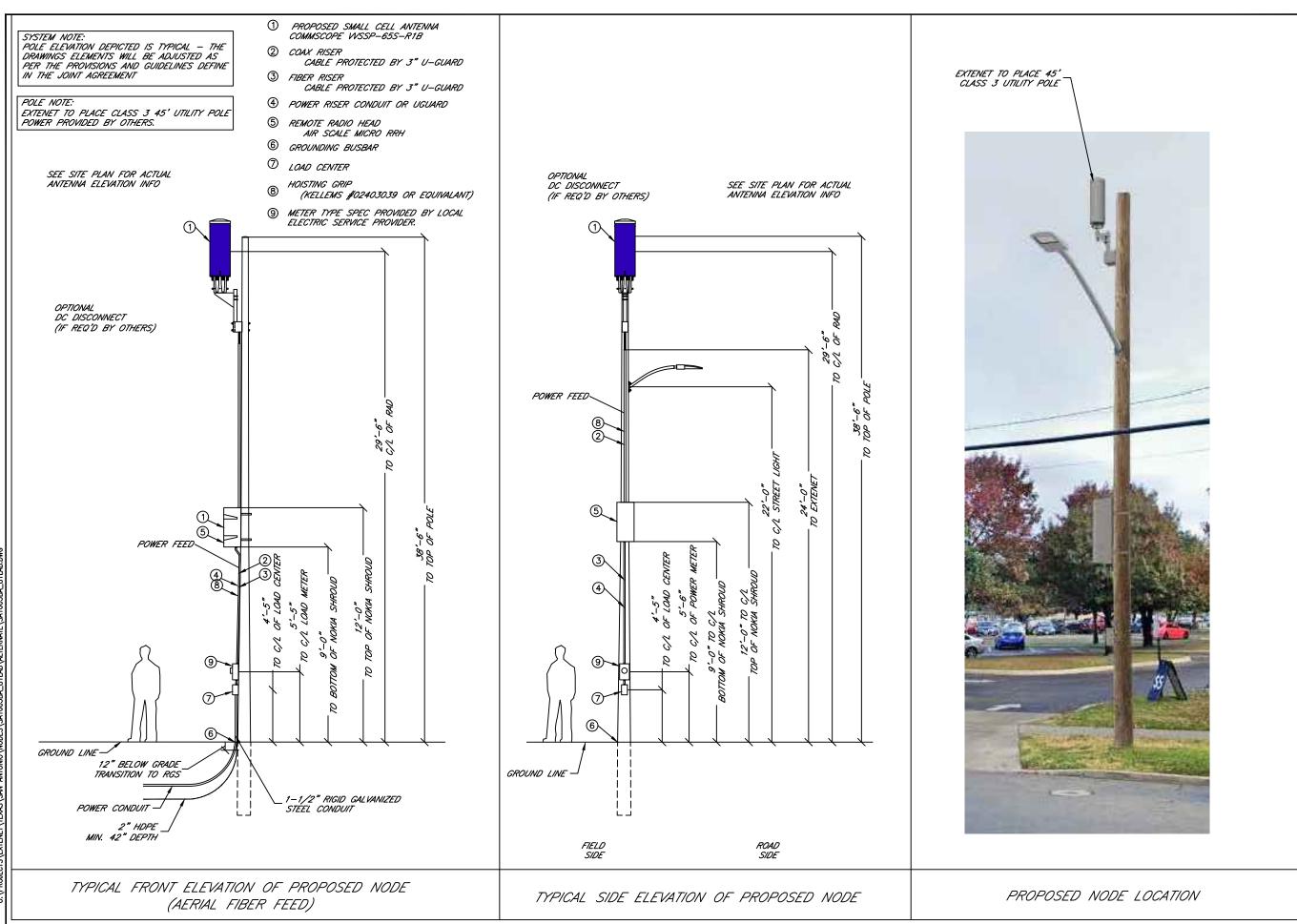




634 N. BALLARD WYLIE, TX 75098 OFFICE: 972-442-7005 FAX: 972-578-0517

DESIGNED BY:	1002
DRAWN BY:	TDC2
SCALE:	N. T.S.
DATE DRAWN:	01/21/20
FILE NAME:	
PROJECT NUMBE	7R:
CHEETI	TOTAL SUT

008



SYSTEMS
WE SHOULD AND SYSTEMS
WE SHOULD SYSTEMS
SYSTEM

| 1 | OA/OL/20 | RENSON | RENSON | RENSON | RENSON | RESERVENCE | RESE

SITE NAME: SC TX SA1005BA_81LA SITE ADDRESS: 580 4TH ST. SAW ANTOWIO, TX 7821 BEXAR COLINITY



634 N. BALLARD WYLIE, TX 75098 OFFICE: 972-442-7005 FAX: 972-578-0517

ı	DESIGNED BY:	TDC2	
ı	DRAWN BY:	TDC2	
ı	SCALE:	N. T.S.	
ı	DATE DRAWN:	01/21/20	
	FILE NAME:		
	PROJECT NUMBE	R:	
ı	SHFFT:	TOTAL SHT:	

008

004A



10/2/20

SA1005BA 81LAB

580 4th Street San Antonio, TX Te vour network.

1 04,02,70 RENSON TICZ
1 04,02,70 SSUED FOR RENEW TICZ
EV DATE DESCRIPTION BY

SITE NAME: SC TX SA1005BA_811 SITE ADDRESS: 580 4TH ST. SAN ANTONIO, TX 78



634 N. BALLARD WYLIE, TX 75098 OFFICE: 972-442-7005 FAX: 972-578-0517

DESIGNED BY:	TDC2
DRAWN BY:	TDC2
SCALE:	N. T. S.
DATE DRAWN:	01/21/20
FILE NAME:	
PROJECT NUMBER	e:
SHEET:	TOTAL SHT:
005	008





SA1005BA81LAB

580 4th Street San Antonio, TX

				zsai	zsai	λB		
				REVISION	ISSUED FOR REVIEW	DESCRIPTION	REVISIONS	
				NOISINJY OZ/SO/YO	02/12/10	REV DATE		
				1	V	NEV.		

SILE NAME: SC TX SA1005BA_81LAB SITE ADDRESS: 580 4TH ST. SAN ANTONIO, TX 78215 BEXAR COUNTY



634 N. BALLARD WYLIE, TX 75098 OFFICE: 972-442-7005 FAX: 972-578-0517

DESIGNED BY:	TDC2
DRAWN BY:	TDC2
SCALE:	N. T.S.
DATE DRAWN:	01/21/20
FILE NAME:	
FILE NAME: PROJECT NUMBER	P:-
	P: TOTAL SHT:

AirScale B25 Micro RRH- Technical Specs

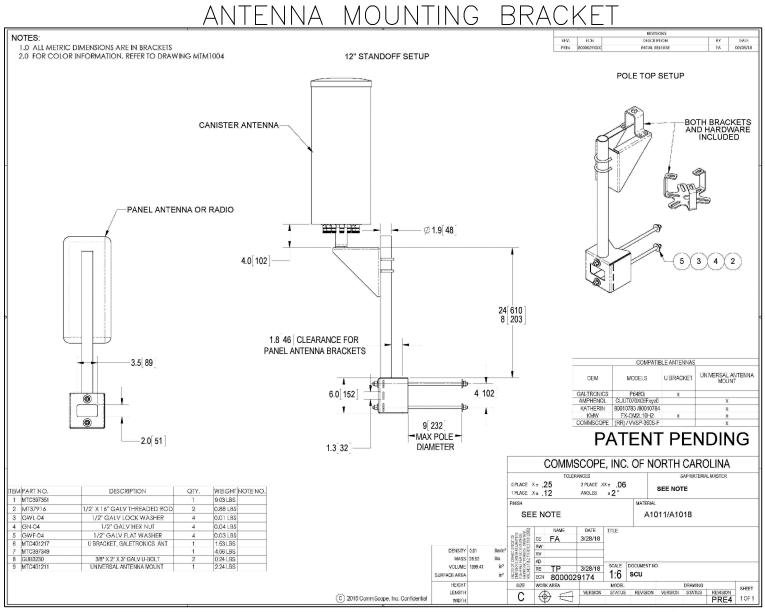
Specification	Details
Spectrum	Band-25 (UL) 1850 - 1915MHZ; (DL) 1930 - 1995MHz
RF Power	4 x 5W (tunable down to 50mW)
Bandwidth	IBW = Filter BW; OBW = IBW
Carriers	Up to 5-carriers
Physical Size	DC: <4L/4Kg; AC: <5L/5Kg
BTS Class	3GPP Medium Area
Modulation	Up to 256QAM w/o power back-off (PAR = 8.5dB)
Interfaces	2 CPRI ports for Fronthaul (2x 9.8Gbps)
Antenna	Configuration: 4Tx / 4Rx MIMO Types: Integrated (<20mm thickness) or External Connector: Nex10
Mounting Options	Wall, Pole, Strand, Shroud, Bookshelf, Back-back or Ceiling
Operating Temp	-40°C to +55°C
Ingress Protection	IP65
Power Consumption	100W (Typ); 120W (Max)
Input Power	DC: - 40.5V to -57V AC: 80V to 276 (via external AC/DC converter)



AirScale B66 Micro RRH- Technical Specs

Specification	Details
Spectrum	Band-66 (UL) 1710 - 1780MHZ; (DL) 2110 - 2200MHz
RF Power	4 x 5W (tunable down to 50mW)
Bandwidth	IBW = Filter BW; OBW = 80MHz
Carriers	Up to 5-carriers
Physical Size	DC; <4L/4Kg; AC; <5L/5Kg
BTS Class	3GPP Medium Area
Modulation	Up to 256QAM w/o power back-off (PAR = 8.5dB)
Interfaces	2 CPRI ports for Fronthaul (2x 9.8Gbps)
Antenna	Configuration: 4Tx / 4Rx MIMO Types: Integrated (<20mm thickness) or External Connector: Nex10
Mounting Options	Wall, Pole, Strand, Shroud, Bookshelf, Back-back or Ceiling
Operating Temp	-40°C to +55°C
Ingress Protection	IP65
Power Consumption	100W (Typ); 120W (Max)
Input Power	DC; - 40.5V to -57V AC: 80V to 276 (via external AC/DC converter)





AirScale LAA Micro RRH- Technical Specs

Specification	Details	245mm
Spectrum	Band-46 (DL) 5170 – 5250MHZ & 5725 – 5835MHz	9.6in
RF Power	2 x 0.5W (tunable down to 50mW)	
Bandwidth	IBW = 100MHz; OBW = 60MHz	
Carriers	Up to 3 contiguous carriers (20MHz BW/Carrier)	<u> </u>
Physical Size	DC: 4L/4kg; AC: 4.4L/5kg	
BTS Class	3GPP Medium Area	
Modulation	Up to 256QAM w/o power back-off (PAR = 8.5dB)	m m da da da la
Interfaces	2 CPRI ports for Fronthaul (2x 9.8Gbps)	90mm 3.5in
Antenna	Configuration: 2Tx (DL only) Types: Integrated (<20mm thickness) or External Connector: Nex10	90.0 mm cable bending length
Mounting Options	Wall, Pole, Strand, Shroud, Bookshelf, Back-back or Ceiling	59mm
Operating Temp	-40°C to +55°C	LED 68mm (
Ingress Protection	IP65	
ower Consumption	70W (Typ); 90W (Max)	The site of the si
Input Power	DC: - 40.5V to -57V AC: 80V to 276 (via external AC/DC converter)	50mm 1.9in Ant-2 D(
		Optical Optical Port 1 Port 2

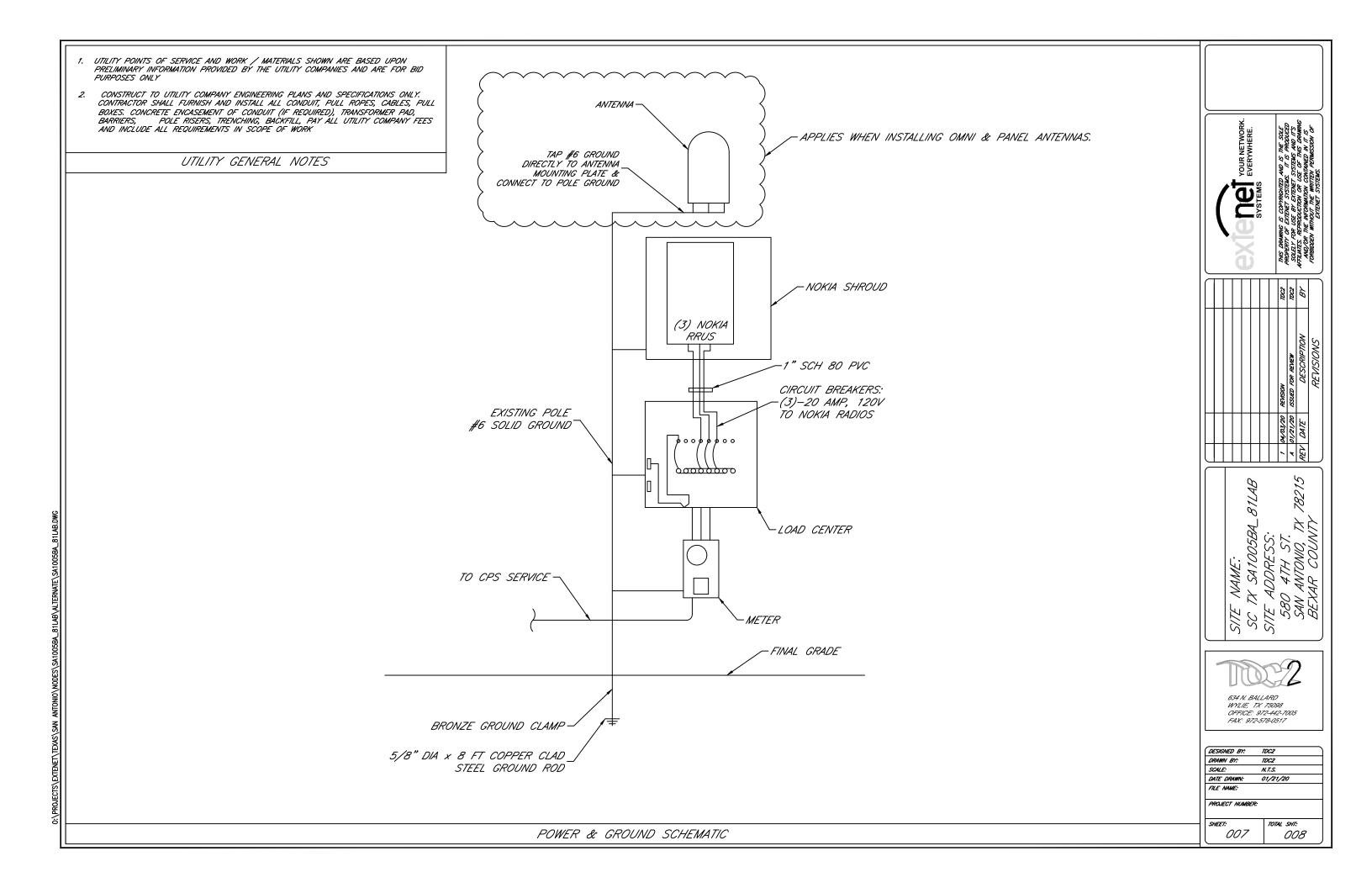


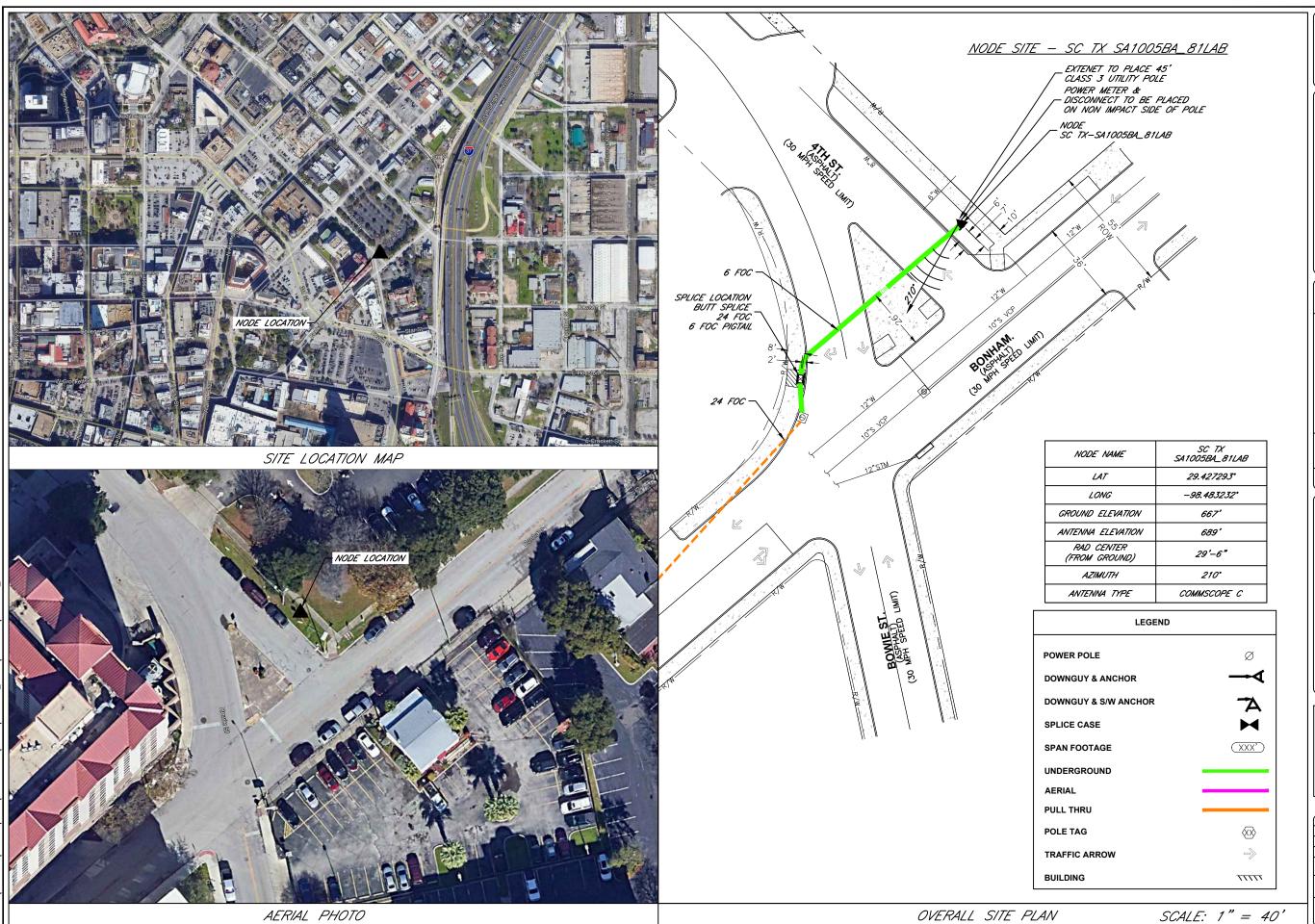
SITE NAME:
SC TX SA1005BA_81LAB
SITE ADDRESS:
580 4TH ST.
SAN ANTOWO, TX 78215
BEXAR COUNTY



DESIGNED BY:	TDC2							
DRAWN BY:	TDC2							
SCALE:	N.T.S.							
DATE DRAWN:	DRAWN: 01/21/20							
FILE NAME:								
PROJECT NUMBER:								
SHEET:	TOTAL SHT:							
006	008							

ROJECTS\EXTENET\TEXAS\SAN ANTONIO\NODES\SA1005BA_81LAB\ALTERNATE\SA1005BA_81







ı				_	`		
				04/03/20 REVISION	MINIY YOY AINSSI	NOLLAIXOS 30	SNOISINTH
				04/03/20	02/12/10	REV DATE	
				1	7	REV	
					1	_	



DESIGNED BY: TDC2 TDC2 SCALE: DATE DRAWN: 01/21/20 FILE NAME: PROJECT NUMBER: SHEET:

TOTAL SHT: 008 008