HISTORIC AND DESIGN REVIEW COMMISSION

March 20, 2019

HDRC CASE NO:	**2019-123**
COMMON NAME:	131 N Mesquite ROW
ADDRESS:	133 N MESQUITE ST - ROW
LEGAL DESCRIPTION:	NCB 590 BLK 3 LOT S 65.63 FT OF 20,21 AND ALLOF LOT C
ZONING:	RM-4, UZROW, H
CITY COUNCIL DIST.:	2
DISTRICT:	Dignowity Hill Historic District
APPLICANT:	Kevin Bowyer
OWNER:	City of San Antonio
TYPE OF WORK:	Install new network node pole in right-of-way
APPLICATION RECEIVED:	February 26, 2019
60-DAY REVIEW:	April 26, 2019
CASE MANAGER:	Huy Pham

REQUEST:

The applicant is requesting a Certificate of Appropriateness for approval to install a new 37-foot wood pole to feature network node equipment at the right-of-way at 131 N Mesquite.

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. The applicant has proposed to install a new wood pole featuring network node equipment at the right-of-way at 131 N Mesquite, between cross streets Center to the north and E Commerce to the south. The proposed pole is located in Dignowity Hill Historic District, abuts a surface parking lot, and is across the street from Brackenridge School historic site at 508 Center and a contributing one-story structure at 124/130 N Mesquite. 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. LOCATION - The applicant has proposed to install a new wood pole featuring network node equipment at the right-of-way at 131 N Mesquite, between cross streets Center to the north and E Commerce to the south, at the approximate coordinates [29.422064, -98.474807]. The proposed location is mid-block, directly across to the street to a contributing one-story structure at 124/130 N Mesquite and diagonal to Brackenridge School historic site. Per the Design Manual 3.B.i., new poles must be generally located at commercial corners and intersections. Staff finds that the mid-block location that bisects the view of the 124 N Mesquite is inappropriate.
c. SEPARATION – The applicant has proposed to install the new pole within the immediate block as four 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.
d. 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 and/or an engineer's letter noting the feasibility of collocation will suffice as a supporting document for this finding.
e. HEIGHT – The applicant has proposed to install a wood pole with a height of 35 feet (35') with equipment extending a total of 37 feet (37') 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 the proximity.
f. DIAMETER – The applicant has proposed to install a pole that is 32 inches (32") in diameter excluding the meter boxes at the pedestrian level and the antenna cabinets at the top. 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 diameter is four times wider allowed by the design manual.
g. DESIGN – The applicant has proposed to install a wood pole with a meter socket (box), service disconnect (box) and linear conduit up to six feet (6') and three (3) au/rap units (grey cabinets) that are 11.4 inch wide, 14.6 inch

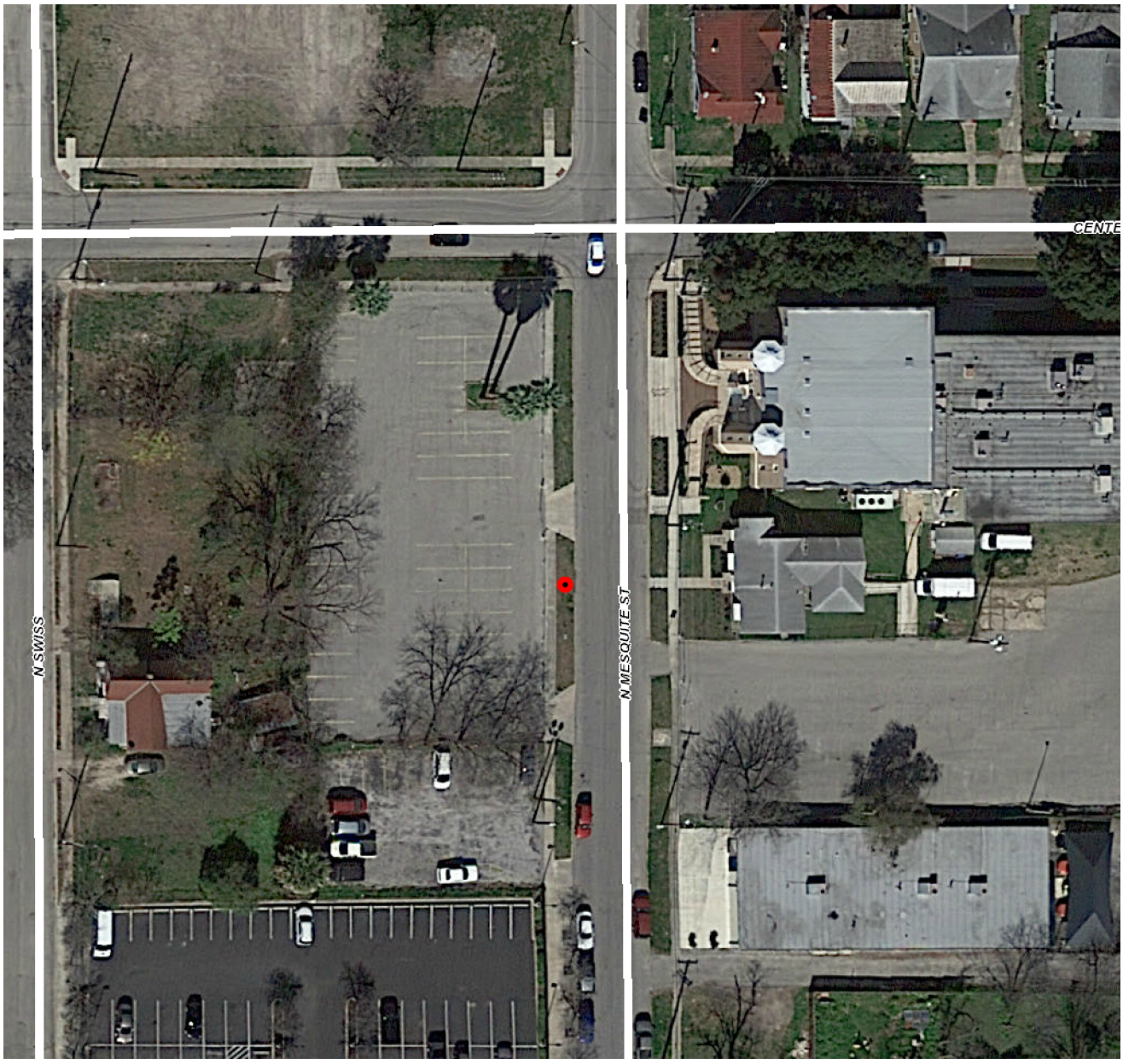
tall, and extend no more than one feet (1') from the wood pole. The applicant referenced existing wood utility poles in selecting the pole type in this location. Per the Design Manual 3.B.: *The Historic Preservation Officer may require concealment of the support pole in the form of aesthetically appropriate 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 that no efforts have been made to conceal or relate the proposed new pole to the existing context or site elements at N Mesquite – except the use of a wood pole.

h. DESIGN REVIEW COMMITTEE – The applicant met with staff and the Design Review Committee on February 12, 2019 to review potential designs for new network poles in areas within the HDRC's purview. Both the applicant and committee members emphasized and understood that each new request would be treated on a case by case basis specific to the immediate context of the proposed location of the new pole. General comments from the committee members included: 1) poles at street corners or in-between historic structures are preferred over locations that would bisect the view of any structure's front façade, 2) materials and forms of new poles should relate to the immediate context of the proposed location and not so obviously be visually read as wireless communication equipment, 3) pedestrian level meter boxes and related equipment should be concealed rather than mounted if not altogether avoided, 4) options to collocation should be thoroughly explored and documented prior to consideration of a new pole.

RECOMMENDATION:

Staff does not recommend approval of the new network pole based on findings b through g. While approval may still be issued at the commission's discretion, the following requirements have not been met per the Right-of-way Network Node Design Manual:

i. COLLOCATION - Documented efforts to explore a nearby collocation have not been submitted.
ii. LOCATION – The proposed pole is not located at a commercial corner or intersection.
iii. SEPARATION – The proposed pole is not separated from existing poles by more than 250 feet.
iv. DIAMETER – The proposed pole is not less than 8 inches at its widest portion.

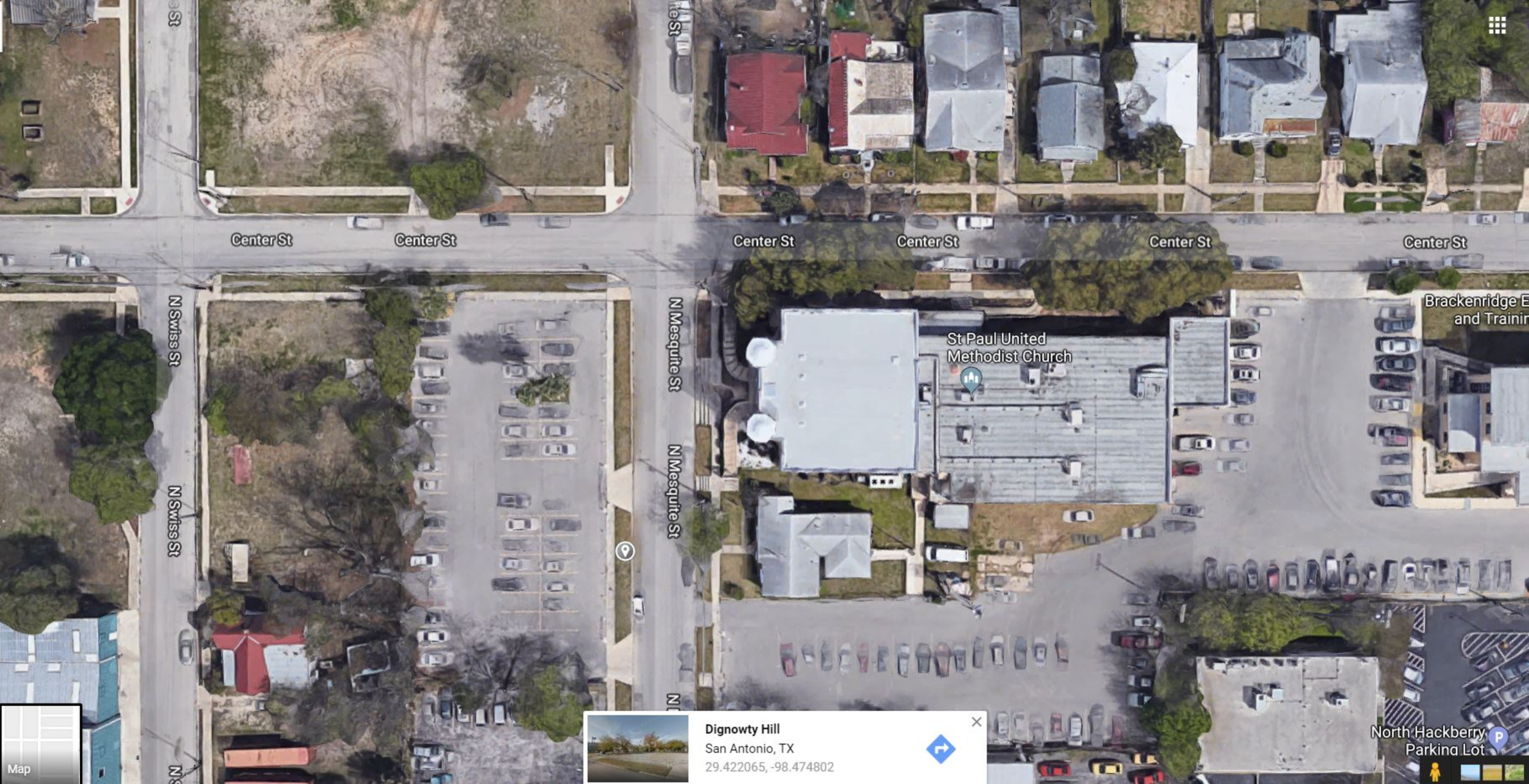


N

ROW at 131 N MESQUITE

Powered by ArcGIS Server

Printed:Mar 09, 2019


Center St
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N Mesquite St
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St Paul United
Methodist Church
Brackenridge E
and Trainir
North Hackberry
Parking Lot
Dignowty Hill
San Antonio, TX
29.422065, -98.474802
Map


St Paul United
Methodist Church
Center St
N Mesquite St
N Mesquite St
N Mesquite St
Google
Map


126 N Mesquite St
San Antonio, Texas
Google
Street View - Dec 2017
©2018 Google
N Mesquite St
Downtown
Park
Cemetery
E Crockett St
N Hackberry
Center St
Gibbs
N Swiss St
Commerce St
Google

Existing

Proposed

photo simulation as seen looking northwest along Mesquite st

verizon

SADT_MESQUITE_PASO_SC
131 N MESQUITE ST
SAN ANTONIO, TX 78205
Photosim Produced on 12-11-18

Existing

Proposed

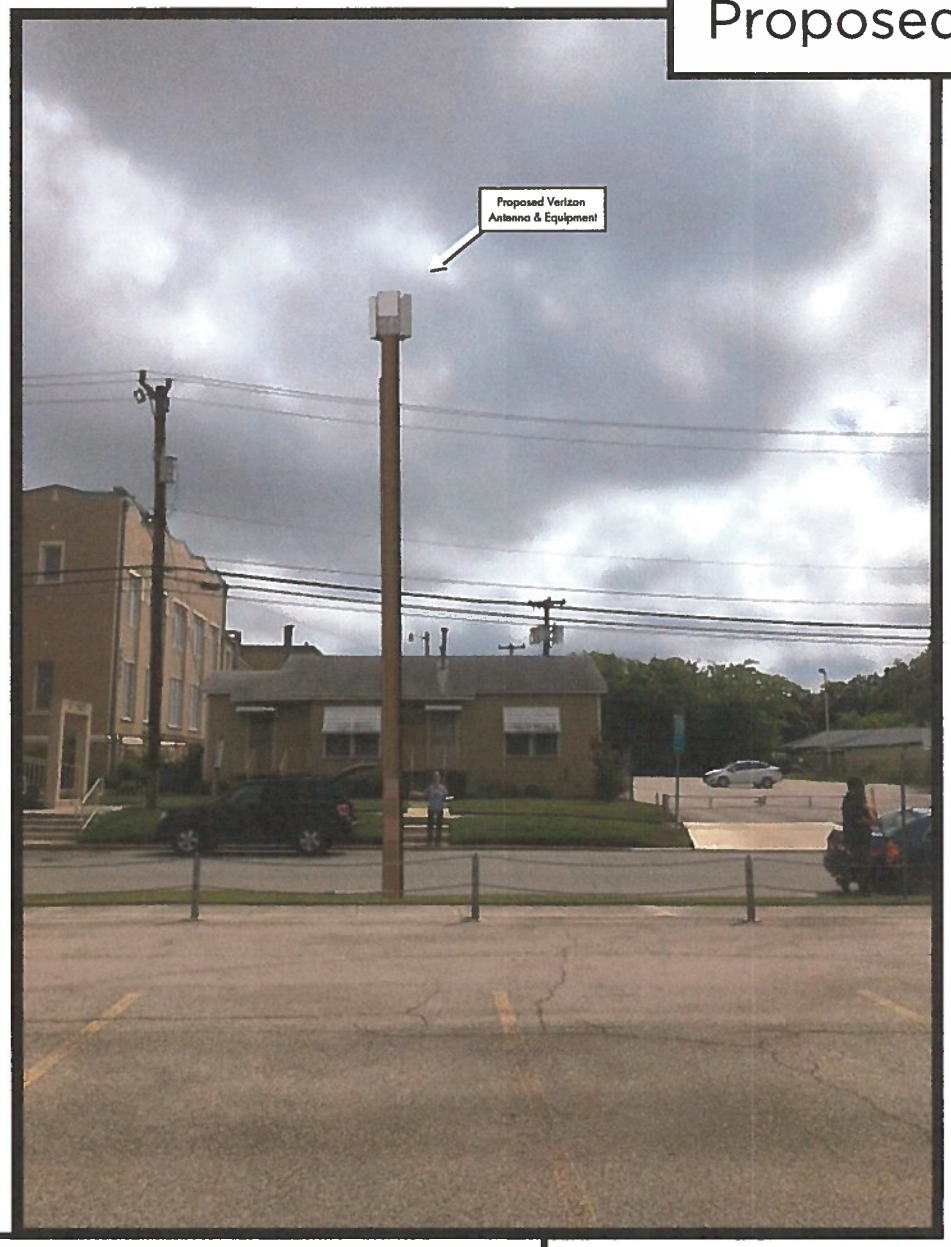


photo simulation as seen looking north along Parking Lot

verizon

SADT_MESQUITE_PASO_SC
131 N MESQUITE ST
SAN ANTONIO, TX 78205
Photosim Produced on 12-11-18

verizon

SITE NAME:	SADT_MESQUITE_PASO_SC
PROJECT NUMBER:	20181815414
LOCATION CODE:	497585
PROJECT ID:	616118997
SITE ADDRESS:	131 N MESQUITE ST SAN ANTONIO, TX 78205
COUNTY:	BEXAR
POLE TYPE:	BRAND NEW WOOD UTILITY POLE

SITE INFORMATION

POLE OWNER:	VERIZON WIRELESS
APPLICANT:	VERIZON WIRELESS 6696 TRI COUNTY PARKWAY, SUITE #100 SCHERTZ, TX 78154
AGENT:	MODUS, INC 600 CONGRESS AVENUE, 16TH FLOOR AUSTIN, TX 78701
PROPERTY ID:	ADJACENT TO 106191
SITE ADDRESS:	131 N MESQUITE ST SAN ANTONIO, TX 78205
COUNTY:	BEXAR
LATITUDE:	29° 25' 19.4298" N (29.422064) NAD 83
LONGITUDE:	98° 28' 29.3046" W (-98.474807) NAD 83
GROUND ELEVATION:	±684' AMSL
ZONING JURISDICTION:	CITY OF SAN ANTONIO
DESIGN OR SPECIAL DISTRICT:	DIGNOWITY HILL DISTRICT

VICINITY MAP

SITE LOCATION

PROJECT DESCRIPTION

PROJECT DESCRIPTION:

THIS IS AN UNMANNED WIRELESS TELECOMMUNICATION FACILITY FOR VERIZON WIRELESS CONSISTING OF THE INSTALLATION AND OPERATION OF ANTENNAS AND ASSOCIATED EQUIPMENT ON A (N) WOOD UTILITY POLE IN THE PUBLIC RIGHT OF WAY.

SCOPE OF WORK & SITE COMPLETION CHECKLIST:

- ANTENNA & ASSOCIATED EQUIPMENT BOXES - INSTALL 3.89 CU FT OF (N) TELECOMMUNICATIONS EQUIPMENT BOXES ON A (N) WOOD UTILITY POLE. EQUIPMENT CONSISTS OF (3) AU UNITS W/ RAP UNITS, (1) METER SOCKET, & (1) SERVICE DISCONNECT.
- CABLING - CABLING TO BE INSTALLED IN A TIDY MANNER WITHOUT EXCESS CABLE LOOPS.
- SPACING OF SUPPORT ELEMENTS - SUPPORT EQUIPMENT TO BE CLUSTERED AS CLOSE AS TECHNICALLY FEASIBLE ON POLE.
- SIGNAGE - FCC MANDATED RF WARNING SIGNAGE SHALL FACE OUT TO STREET.
- UTILITY LINES - PROPOSED UTILITY LINES BETWEEN EXISTING POINT OF CONNECTION & EQUIPMENT TO BE UNDERGROUND.

CODE COMPLIANCE

ALL WORK & MATERIALS SHALL BE PERFORMED & 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 CONSTRUED TO PERMIT WORK NOT CONFORMING TO THESE CODES:

1. 2015 INTERNATIONAL BUILDING CODE
2. 2015 INTERNATIONAL RESIDENTIAL CODE FOR ONE AND TWO FAMILY DWELLINGS
3. 2015 INTERNATIONAL MECHANICAL CODE
4. 2015 INTERNATIONAL PLUMBING CODE
5. 2015 INTERNATIONAL EXISTING BUILDING CODE
6. 2015 INTERNATIONAL FUEL GAS CODE
7. 2015 INTERNATIONAL FIRE CODE
8. 2015 INTERNATIONAL ENERGY CONSERVATION CODE
9. 2014 NATIONAL ELECTRIC CODE
10. LOCAL ORDINANCES AND AMENDMENTS
11. ANSI/EIA-TIA-222-G

ALONG WITH ANY OTHER APPLICABLE LOCAL & STATE LAWS AND REGULATIONS.

ADMINISTRATIVE REQUIREMENTS

CONTRACTOR SHALL VERIFY ALL PLANS & (E) DIMENSIONS & CONDITIONS ON THE JOB SITE & SHALL IMMEDIATELY NOTIFY THE ENGINEER IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR SAME. IF USING 11" X 17" PLOT, DRAWINGS WILL BE HALF SCALE.

At all services & grounding trenches, provide "WARNING" tape at 12" below grade.

CALL
"CALL BEFORE YOU DIG"
811/800-227-2600
NATIONWIDE UNDERGROUND SERVICE ALERT

PROJECT TEAM

MODUS PROJECT MANAGER:
KEVIN BOWYER
MODUS, INC
600 CONGRESS AVENUE, 16TH FLOOR
AUSTIN, TX 78701
(408) 219-5442
KBOWYER@MODUS-CORP.COM

MODUS CONSTRUCTION MANAGER:
KRESSTON HAYNES
MODUS, INC
600 CONGRESS AVENUE, 16TH FLOOR
AUSTIN, TX 78701
(209) 938-7251
KHAYNES@MODUS-CORP.COM

VERIZON WIRELESS CONSTRUCTION ENGINEER
CARLOS RANGEL
6696 TRI COUNTY PARKWAY, SUITE #100
SCHERTZ, TX 78154
(210) 347-4915
CARLOS.RANGEL@VERIZON.COM

ARCHITECT/ENGINEER ON RECORD:
BRET McCOMB
PRECISION DESIGN & DRAFTING INC
11768 ATWOOD ROAD, SUITE #20
AUBURN, CA 95603
(530) 823-6546
BRET@PDND.COM

DRAWING INDEX

SHEET NO:	SHEET TITLE
TS-1	TITLE SHEET
GC-1	SITE PLAN
GC-2	ENLARGED SITE PLAN & ANTENNA PLANS
GC-3	ELEVATIONS
GN-1	EQUIPMENT DETAILS
GN-2	CONSTRUCTION DETAILS
E-1	SINGLE-LINE DIAGRAM & DETAILS
E-2	ELECTRICAL DIAGRAMS
TR-1	TRAFFIC CONTROL PLAN

verizon
VERIZON WIRELESS
6696 TRI COUNTY PARKWAY, SUITE #100
SCHERTZ, TX 78154

600 CONGRESS AVENUE, 16TH FLOOR
AUSTIN, TX 78701

PRECISION DESIGN & Drafting, INC.
Phone (530) 823-6546 www.pdnd.com
11768 Atwood Rd, Suite 20 Auburn, CA 95603

STATE OF TEXAS
BRET McCOMB
130934
REGISTERED PROFESSIONAL ENGINEER

SADT_MESQUITE_PASO_SC

131 N MESQUITE ST
SAN ANTONIO, TX 78205

ISSUE STATUS

△	DATE	DESCRIPTION
	11/14/18	CD 90%

DRAWN BY:	I. BAKER
CHECKED BY:	T. DCARLO
APPROVED BY:	B. McCOMB
DATE:	11/14/18

SHEET TITLE:
TITLE SHEET

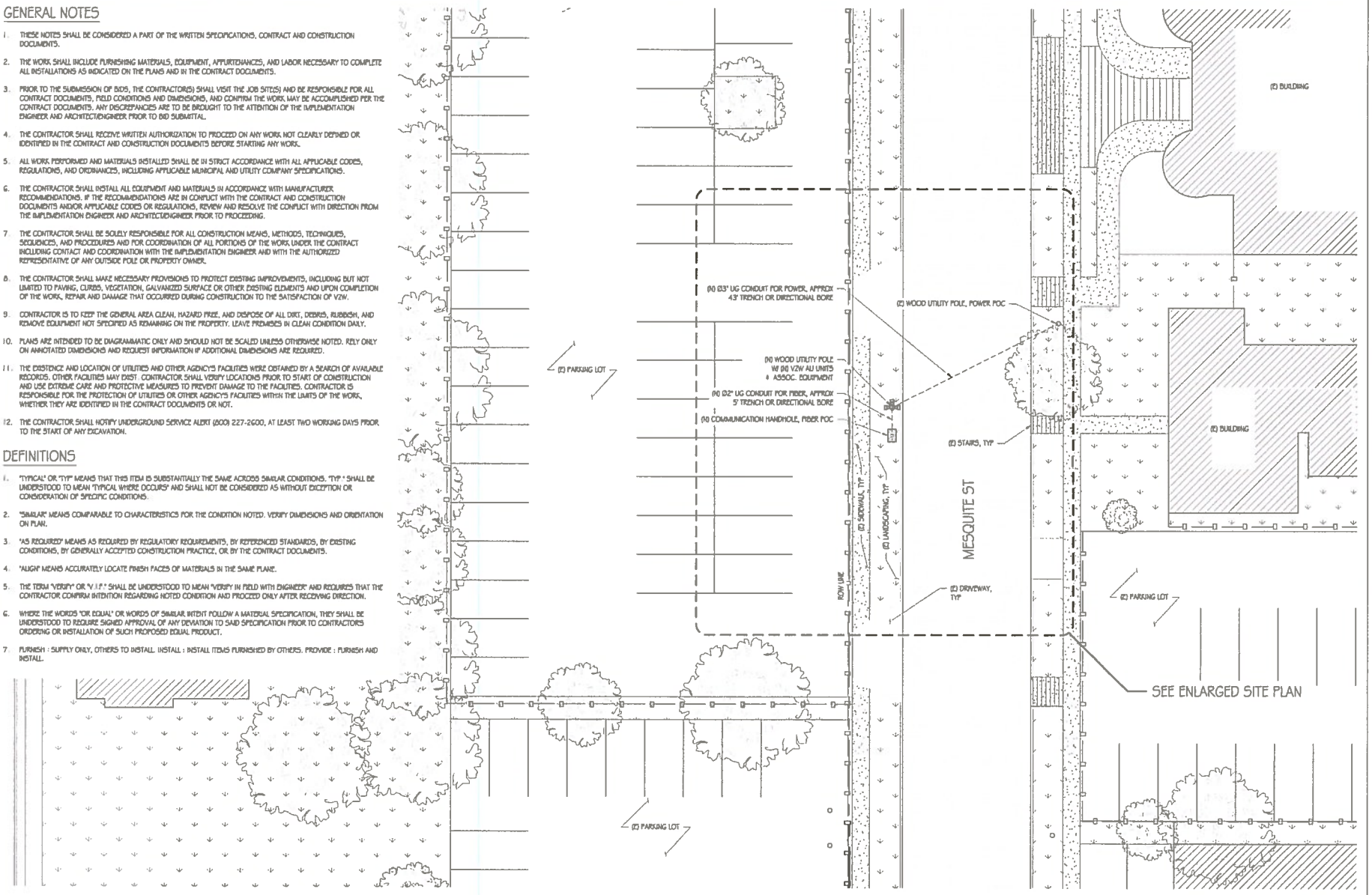
SHEET NUMBER
TS-1

GENERAL NOTES

1. THESE NOTES SHALL BE CONSIDERED A PART OF THE WRITTEN SPECIFICATIONS, CONTRACT AND CONSTRUCTION DOCUMENTS.
2. THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT, APPURTENANCES, AND LABOR NECESSARY TO COMPLETE ALL INSTALLATIONS AS INDICATED ON THE PLANS AND IN THE CONTRACT DOCUMENTS.
3. PRIOR TO THE SUBMISSION OF BIDS, THE CONTRACTOR(S) SHALL VISIT THE JOB SITE(S) AND BE RESPONSIBLE FOR ALL CONTRACT DOCUMENTS, FIELD CONDITIONS AND DIMENSIONS, AND CONFIRM THE WORK MAY BE ACCOMPLISHED PER THE CONTRACT DOCUMENTS. ANY DISCREPANCIES ARE TO BE BROUGHT TO THE ATTENTION OF THE IMPLEMENTATION ENGINEER AND ARCHITECT/ENGINEER PRIOR TO BID SUBMITTAL.
4. THE CONTRACTOR SHALL RECEIVE WRITTEN AUTHORIZATION TO PROCEED ON ANY WORK NOT CLEARLY DEFINED OR IDENTIFIED IN THE CONTRACT AND CONSTRUCTION DOCUMENTS BEFORE STARTING ANY WORK.
5. ALL WORK PERFORMED AND MATERIALS INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS, AND ORDINANCES, INCLUDING APPLICABLE MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS.
6. THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER RECOMMENDATIONS. IF THE RECOMMENDATIONS ARE IN CONFLICT WITH THE CONTRACT AND CONSTRUCTION DOCUMENTS AND/OR APPLICABLE CODES OR REGULATIONS, REVIEW AND RESOLVE THE CONFLICT WITH DIRECTION FROM THE IMPLEMENTATION ENGINEER AND ARCHITECT/ENGINEER PRIOR TO PROCEEDING.
7. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES AND FOR COORDINATION OF ALL PORTIONS OF THE WORK UNDER THE CONTRACT INCLUDING CONTACT AND COORDINATION WITH THE IMPLEMENTATION ENGINEER AND WITH THE AUTHORIZED REPRESENTATIVE OF ANY OUTSIDE POLE OR PROPERTY OWNER.
8. THE CONTRACTOR SHALL MAKE NECESSARY PROVISIONS TO PROTECT EXISTING IMPROVEMENTS, INCLUDING BUT NOT LIMITED TO PAVING, CURBS, VEGETATION, GALVANIZED SURFACE OR OTHER EXISTING ELEMENTS AND UPON COMPLETION OF THE WORK, REPAIR AND DAMAGE THAT OCCURRED DURING CONSTRUCTION TO THE SATISFACTION OF VZW.
9. CONTRACTOR IS TO KEEP THE GENERAL AREA CLEAN, HAZARD FREE, AND DISPOSE OF ALL DIRT, DEBRIS, RUBBISH, AND REMOVE EQUIPMENT NOT SPECIFIED AS REMAINING ON THE PROPERTY. LEAVE PREMISES IN CLEAN CONDITION DAILY.
10. PLANS ARE INTENDED TO BE DIAGRAMMATIC ONLY AND SHOULD NOT BE SCALED UNLESS OTHERWISE NOTED. RELY ONLY ON ANNOTATED DIMENSIONS AND REQUEST INFORMATION IF ADDITIONAL DIMENSIONS ARE REQUIRED.
11. THE EXISTENCE AND LOCATION OF UTILITIES AND OTHER AGENCY'S FACILITIES WERE OBTAINED BY A SEARCH OF AVAILABLE RECORDS. OTHER FACILITIES MAY EXIST. CONTRACTOR SHALL VERIFY LOCATIONS PRIOR TO START OF CONSTRUCTION AND USE EXTREME CARE AND PROTECTIVE MEASURES TO PREVENT DAMAGE TO THE FACILITIES. CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION OF UTILITIES OR OTHER AGENCY'S FACILITIES WITHIN THE LIMITS OF THE WORK, WHETHER THEY ARE IDENTIFIED IN THE CONTRACT DOCUMENTS OR NOT.
12. THE CONTRACTOR SHALL NOTIFY UNDERGROUND SERVICE ALERT (800) 227-2600, AT LEAST TWO WORKING DAYS PRIOR TO THE START OF ANY EXCAVATION.

DEFINITIONS

1. "TYPICAL" OR "TYP" MEANS THAT THIS ITEM IS SUBSTANTIALLY THE SAME ACROSS SIMILAR CONDITIONS. "TYP." SHALL BE UNDERSTOOD TO MEAN "TYPICAL WHERE OCCURS" AND SHALL NOT BE CONSIDERED AS WITHOUT EXCEPTION OR CONSIDERATION OF SPECIFIC CONDITIONS.
2. "SIMILAR" MEANS COMPARABLE TO CHARACTERISTICS FOR THE CONDITION NOTED. VERIFY DIMENSIONS AND ORIENTATION ON PLAN.
3. "AS REQUIRED" MEANS AS REQUIRED BY REGULATORY REQUIREMENTS, BY REFERENCED STANDARDS, BY EXISTING CONDITIONS, BY GENERALLY ACCEPTED CONSTRUCTION PRACTICE, OR BY THE CONTRACT DOCUMENTS.
4. "ALIGN" MEANS ACCURATELY LOCATE FINISH FACES OF MATERIALS IN THE SAME PLANE.
5. THE TERM "VERIFY" OR "V.I.F." SHALL BE UNDERSTOOD TO MEAN "VERIFY IN FIELD WITH ENGINEER" AND REQUIRES THAT THE CONTRACTOR CONFIRM INTENTION REGARDING NOTED CONDITION AND PROCEED ONLY AFTER RECEIVING DIRECTION.
6. WHERE THE WORDS "OR EQUAL" OR WORDS OF SIMILAR INTENT FOLLOW A MATERIAL SPECIFICATION, THEY SHALL BE UNDERSTOOD TO REQUIRE SIGNED APPROVAL OF ANY DEVIATION TO SAID SPECIFICATION PRIOR TO CONTRACTORS ORDERING OR INSTALLATION OF SUCH PROPOSED EQUAL PRODUCT.
7. FURNISH : SUPPLY ONLY, OTHERS TO INSTALL. INSTALL : INSTALL ITEMS FURNISHED BY OTHERS. PROVIDE : FURNISH AND INSTALL.



SITE PLAN

1" = 10'

0 5' 10' 20' 30' 50'

verizon

VERIZON WIRELESS
6606 TPC COURTYARD, SUITE #100
SCHERTZ, TX 78154

600 CONGRESS AVENUE, 16TH FLOOR
AUSTIN, TX 78701

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11788 Atwood Rd, Suite 20 Auburn, CA 95603

STATE OF TEXAS
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PROFESSIONAL ENGINEER

SADT_MESQUITE_PASO_SC

131 N MESQUITE ST
SAN ANTONIO, TX 78205

ISSUE STATUS

△	DATE	DESCRIPTION
	11/1/18	CD 90%

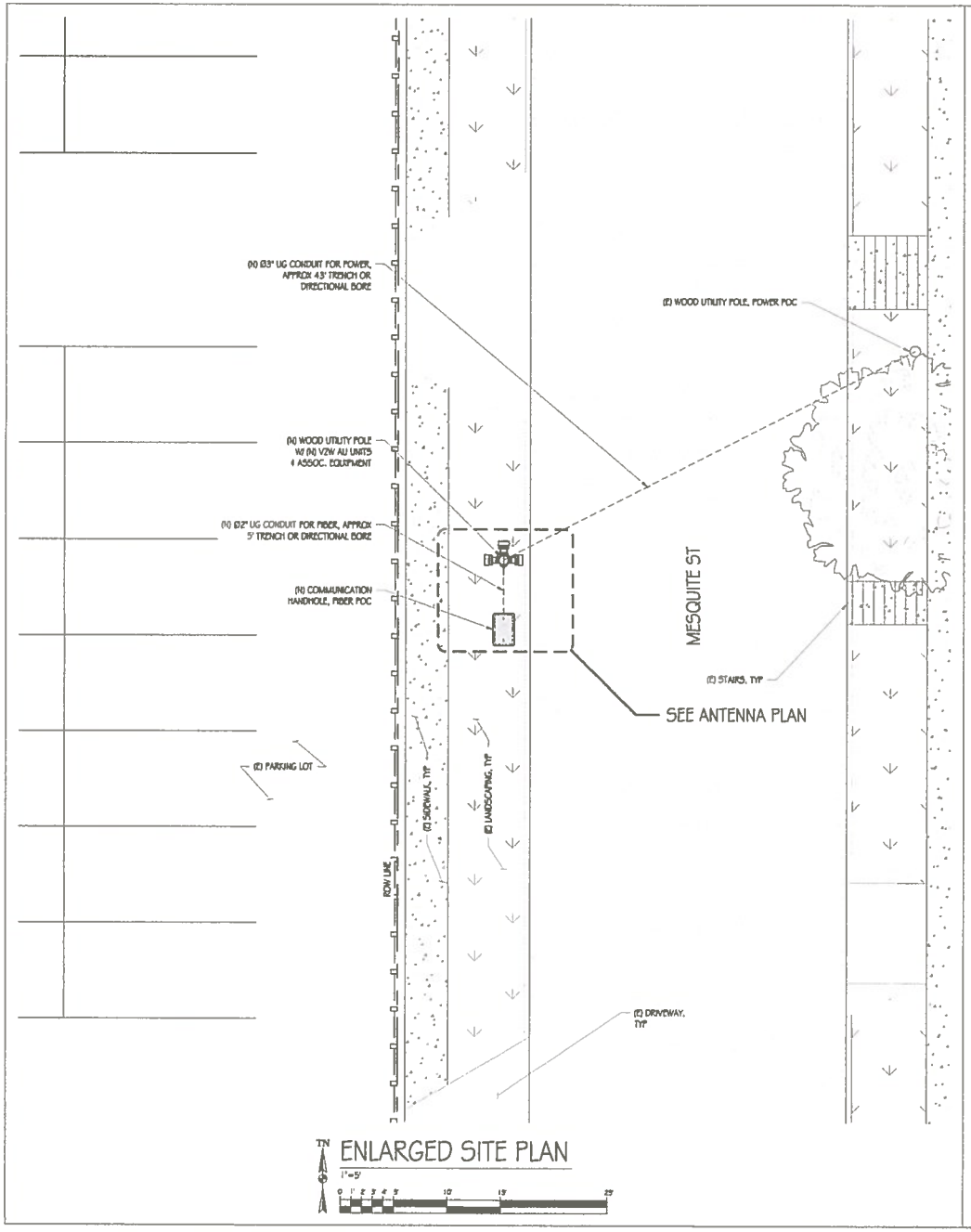
DRAWN BY:	I. BAKER
CHECKED BY:	T. DICARLO
APPROVED BY:	B. McCOMB
DATE:	11/1/18

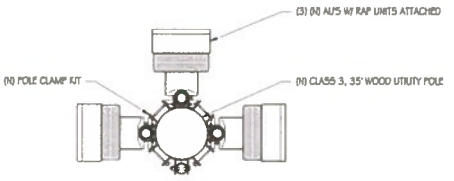
SHEET TITLE:

SITE PLAN

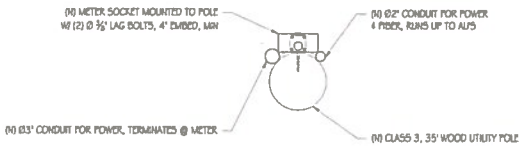
SHEET NUMBER

GC-1





TN
ANTENNA PLAN
1"=1'



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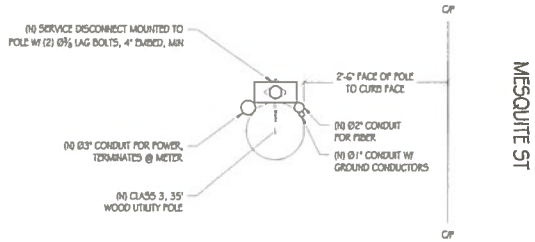
METER PLAN
1"=1'



TN
DISCONNECT PLAN
1"=1'

verizon
VERIZON WIRELESS
6505 TPC COURNTY PARKWAY, SUITE #1100
SCHERTZ, TX 78154

620 CONGRESS AVENUE, 16TH FLOOR
AUSTIN, TX 78701

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Phone (530) 823-6548 www.pdinf.com
11768 Atwood Rd. Suite 20 Auburn, CA 95603

SADT_MESQUITE_PASO_SC

131 N MESQUITE ST
SAN ANTONIO, TX 78205

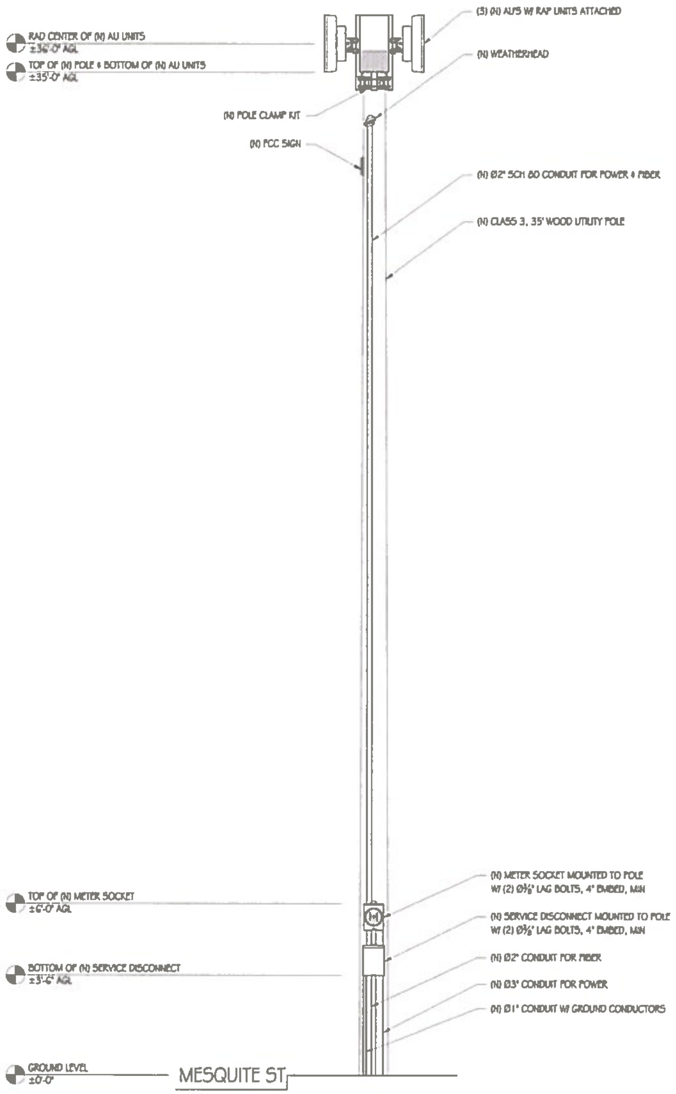
ISSUE STATUS

△	DATE	DESCRIPTION
	11/14/18	CD 90%

DRAWN BY:	I. BAKER
CHECKED BY:	T. DCARLO
APPROVED BY:	B. McCOMB
DATE:	11/14/18

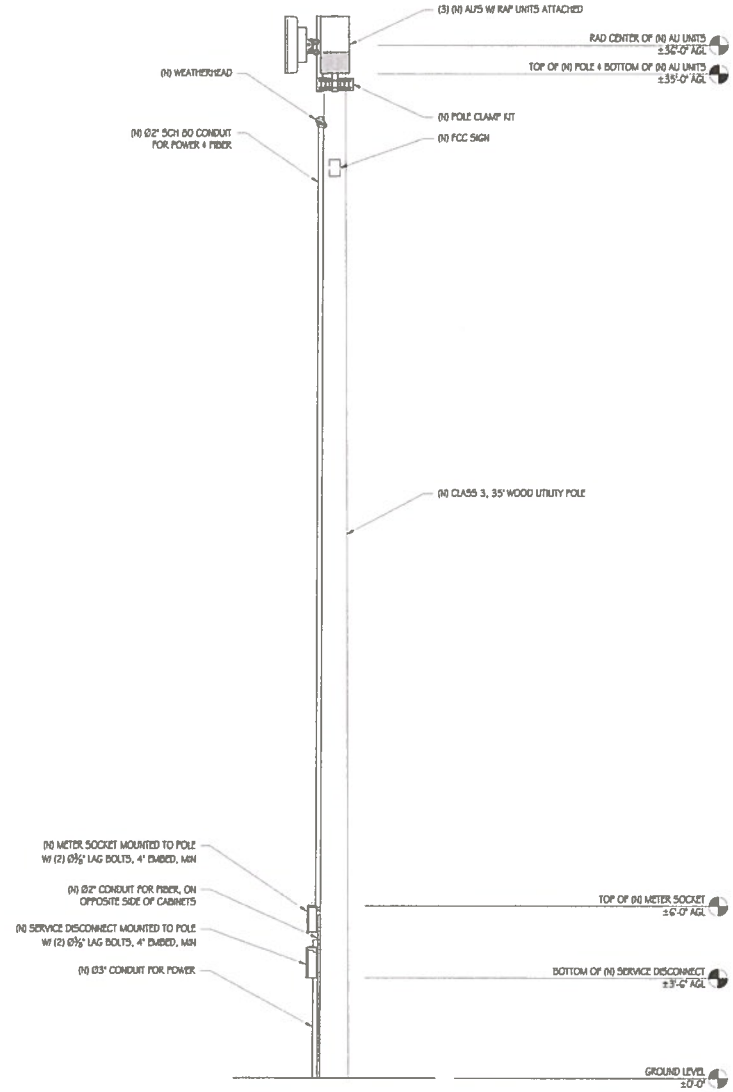
SHEET TITLE:
ENLARGED SITE PLAN & ANTENNA PLANS

SHEET NUMBER
GC-2


RAD CENTER OF (N) AU UNITS ±36'-0" AGL
TOP OF (N) POLE & BOTTOM OF (N) AU UNITS ±35'-0" AGL
(3) (N) AU'S W/ RAP UNITS ATTACHED
(N) WEATHERHEAD
(N) POLE CLAMP KIT
(N) FCC SIGN
(N) Ø2" SCH 80 CONDUIT FOR POWER & FIBER
(N) CLASS 3, 35' WOOD UTILITY POLE
TOP OF (N) METER SOCKET ±6'-0" AGL
BOTTOM OF (N) SERVICE DISCONNECT ±3'-6" AGL
GROUND LEVEL ±0'-0"
(N) METER SOCKET MOUNTED TO POLE W/ (2) Ø3/8" LAG BOLTS, 4" EMBED, MIN
(N) SERVICE DISCONNECT MOUNTED TO POLE W/ (2) Ø3/8" LAG BOLTS, 4" EMBED, MIN
(N) Ø2" CONDUIT FOR FIBER
(N) Ø3" CONDUIT FOR POWER
(N) Ø1" CONDUIT W/ GROUND CONDUCTORS
MESQUITE ST

NORTH ELEVATION

1/2"=1'-0"


(3) (N) AU'S W/ RAP UNITS ATTACHED
RAD CENTER OF (N) AU UNITS ±36'-0" AGL
TOP OF (N) POLE & BOTTOM OF (N) AU UNITS ±35'-0" AGL
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(N) Ø2" SCH 80 CONDUIT FOR POWER & FIBER
(N) FCC SIGN
(N) CLASS 3, 35' WOOD UTILITY POLE
(N) METER SOCKET MOUNTED TO POLE W/ (2) Ø3/8" LAG BOLTS, 4" EMBED, MIN
(N) Ø2" CONDUIT FOR FIBER, ON OPPOSITE SIDE OF CABINETS
(N) SERVICE DISCONNECT MOUNTED TO POLE W/ (2) Ø3/8" LAG BOLTS, 4" EMBED, MIN
(N) Ø3" CONDUIT FOR POWER
TOP OF (N) METER SOCKET ±6'-0" AGL
BOTTOM OF (N) SERVICE DISCONNECT ±3'-6" AGL
GROUND LEVEL ±0'-0"

WEST ELEVATION

1/2"=1'-0"

verizon

VERIZON WIRELESS
6636 TRI COUNTY PARKWAY, SUITE #100
SCHERTZ, TX 78154

600 CONGRESS AVENUE, 16TH FLOOR
AUSTIN, TX 78701

PRECISION DESIGN & Drafting, INC.

STATE OF TEXAS
BRET McCOMB
130934
LICENSED
PROFESSIONAL ENGINEER

SADT_MESQUITE_PASO_SC

131 N MESQUITE ST
SAN ANTONIO, TX 78205

ISSUE STATUS

△	DATE	DESCRIPTION	
	11/14/18	CD 90%	

DRAWN BY:	I. BAKER
CHECKED BY:	T. DiCARLO
APPROVED BY:	B. McCOMB
DATE:	11/14/18

SHEET TITLE:

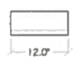
ELEVATIONS

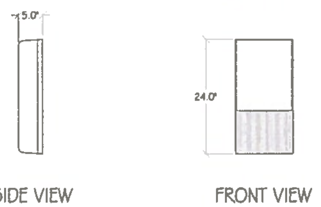
SHEET NUMBER

GC-3

NOKIA AU UNIT

WIND AREA:	2.0 SQ FT
VOLUME:	0.78 CU FT
WEIGHT:	48.5 LBS
DIMENSIONS:	24.0" TALL X 12.0" WIDE X 6.0" DEEP

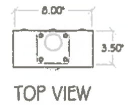


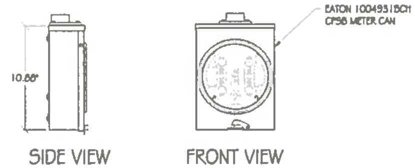


1 AU UNIT DETAIL
1"=1'

METER CAN

WIND AREA:	0.604 SQ FT
VOLUME:	0.176 CU FT
WEIGHT:	5 LBS
DIMENSIONS:	10.88" TALL X 8.0" WIDE X 3.5" DEEP

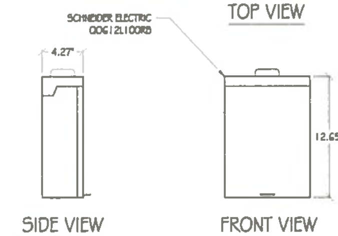




2 METER DETAIL
1"=6"

LOAD CENTER

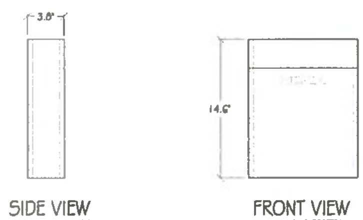
WIND AREA:	0.780 SQ FT
VOLUME:	0.278 CU FT
WEIGHT:	9.68 LBS
DIMENSIONS:	12.65" TALL X 8.88" WIDE X 4.27" DEEP



3 LOAD CENTER/AC DISCONNECT
1"=6"

NOKIA RAP UNIT

WIND AREA:	1.16 SQ FT
VOLUME:	0.366 CU FT
WEIGHT:	19.8 LBS
DIMENSIONS:	14.6" TALL X 11.4" WIDE X 3.8" DEEP

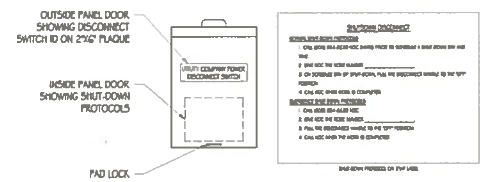


4 RAP UNIT DETAIL
1"=6"

NOTES:

1. (N) VINYL SIGN TO BE PROVIDED BY VERIZON WIRELESS AND BE PLACED ON THE POLE 3' BELOW ANTENNA LEVEL. COLOR TO BE DETERMINED PRIOR TO INSTALL.

5 FCC SIGN
NTS



6 DISCONNECT SIGNAGE
1"=6"

NOTES:
1. SITE ID WILL BE SWITCH #, SITE [illegible] SITE NAME
2. SIGN PROVIDED BY GC MOUNTED TO OUTSIDE OF SERVICE DISCONNECT

verizon

VERIZON WIRELESS
6636 TRI COUNTY PARKWAY, SUITE #100
SCHERTZ, TX 78154

600 CONGRESS AVENUE, 16TH FLOOR
AUSTIN, TX 78701

PRECISION DESIGN & Drafting, INC.
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STATE OF TEXAS
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PROFESSIONAL ENGINEER

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SAN ANTONIO, TX 78205

ISSUE STATUS

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	11/14/18	CD 90%	

DRAWN BY:	I. BAKER
CHECKED BY:	T. DCARLO
APPROVED BY:	B. McCOMB
DATE:	11/14/18

SHEET TITLE:

EQUIPMENT DETAILS

SHEET NUMBER

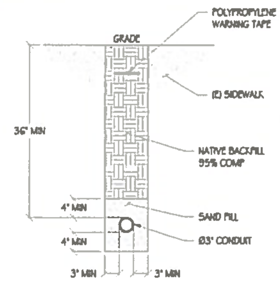
GN-1

CONCRETE NOTES

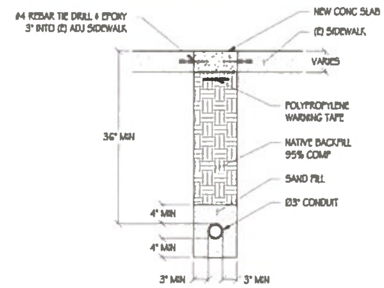
1. ALL CONCRETE CONSTRUCTION SHALL CONFORM TO ACI 318-14.
2. CONTRACTOR SHALL VERIFY SITE CONDITIONS & ALL DIMENSIONS PRIOR TO STARTING WORK. NOTIFY ENGINEER OF RECORD OF ANY DISCREPANCIES.
3. CEMENT SHALL CONFORM TO ASTM C150, TYPE II.
4. CONCRETE AGGREGATES SHALL CONFORM TO ASTM C33.
5. ALL CONCRETE SHALL BE A 5 SACK MIX WITH A MINIMUM COMPRESSIVE STRENGTH OF 4000 PSI AT 28 DAYS.
6. ALL REINFORCING STEEL SHALL BE GRADE 60 AND CONFORM TO ASTM A615 UNLESS OTHERWISE NOTED. SEE PLAN FOR SIZE AND PLACEMENT.
7. MINIMUM LAP SPLICE SHALL BE 40 BAR DIAMETERS UNLESS OTHERWISE NOTED.
8. MINIMUM BEND DIAMETER SHALL BE 6 BAR DIAMETERS UNLESS OTHERWISE NOTED.
9. MINIMUM REINFORCING COVERAGE IS 2" UNLESS OTHERWISE NOTED.
10. CONCRETE SHALL BE PLACED AGAINST FIRM UNDISTURBED SOIL AT DEPTH SHOWN.
11. BOTTOM OF ALL FOOTING TRENCHES SHALL BE CLEAN AND LEVEL.
12. ALL BOLTS & THREADED RODS SHALL BE ASTM F1554 GR 36, MINIMUM, UNLESS OTHERWISE NOTED; NEW, & WITHOUT SIGNIFICANT RUST. TOP 2 FEET & HARDWARE TO BE GALVANIZED PER ASTM A123.
13. A ½" CHAMFER SHALL BE PROVIDED AT ALL EXPOSED EDGES OF CONCRETE UNLESS OTHERWISE NOTED.

SIDEWALK GENERAL NOTES

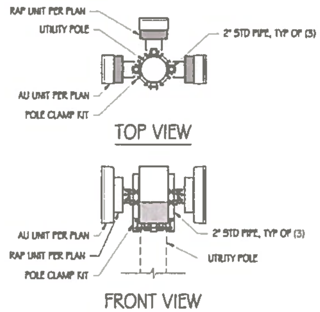
1. SUBGRADE SHALL BE COMPACTED TO AT LEAST 95% RELATIVE COMPACTION.
2. WHERE UNSUITABLE SUBGRADE MATERIAL IS ENCOUNTERED, REMEDIAL WORK SHALL BE DONE UNDER THE DIRECTION OF THE CITY ENGINEER, INCLUDES BUT IS NOT LIMITED TO, REMOVING UNSUITABLE MATERIAL AND PLACING A LAYER OF CLASS II AGGREGATE BASE UNDER THE INSTALLATION.
3. UNDERCUT SUBGRADE FOR GUTTER OR SIDEWALK SHALL BE FILLED WITH APPROVED GRANULAR MATERIAL.
4. SAWCUTS MUST BE FULL DEPTH.
5. NEW WORK SHALL MATCH EXISTING SCORE AND COLOR.
6. SUBGRADE SHALL BE THOROUGHLY WETTED IMMEDIATELY PRIOR TO PLACING CONCRETE.
7. CONCRETE SHALL BE CLASS B-5 SACK MIX WITH ¾ INCH MAXIMUM AGGREGATE.
8. CONCRETE SHALL HAVE A SLUMP OF NOT MORE THAN 4 INCHES.
9. NO ADMIXTURES SHALL BE USED WITHOUT THE PERMISSION OF THE CITY ENGINEER.
10. ½" THICK EXPANSION JOINTS SHALL BE PLACED ON BOTH SIDES OF DRIVEWAY APPROACHES, CURB, GUTTER, AND SIDEWALK RETURN POINTS AND AT 20' ON CENTER.
11. WEAKENED PLANE JOINTS AT LEAST 1½" DEEP SHALL BE PLACED AT THE CENTER OF DRIVEWAYS AND 20' ON CENTER.
12. ¼" DEEP SCORE MARKS SHALL BE PLACED AS DESCRIBED IN THE STANDARD SPECIFICATIONS OR AS DIRECTED BY CITY ENGINEER.
13. NO CONCRETE SHALL BE PLACED UNTIL THE CITY ENGINEER OR HIS AUTHORIZED REPRESENTATIVE HAS INSPECTED AND APPROVED FORMS OF SUBGRADE.
14. ALL EXPOSED EDGES SHALL BE ROUNDED WITH ½" RADIUS TOOL.
15. ALL SURFACES SHALL BE BROOM FINISHED UNLESS OTHERWISE NOTED.
16. CURBS, SIDEWALKS AND DRIVEWAY APPROACHES SHALL BE BACKFILLED WITHIN 7 DAYS AFTER PLACING CONCRETE. THIS SHALL INCLUDE ANY REQUIRED AC PATCHWORK.
17. FORM FACES SHALL NOT VARY FROM THE DIMENSIONS SHOWN BY MORE THAN .02 FEET. FORMS SHALL MEET GRADE.
18. UNLESS OTHERWISE SPECIFIED ON THE APPROVED PLANS, CONCRETE SHALL BE CURED BY MEANS OF THE IMPERVIOUS MEMBRANE METHOD.
19. A MINIMUM OF 6" OF ASPHALT SHALL BE REMOVED ALONG THE GUTTER LIP FOR THE INSTALLATION OF FORMS. FOR CURB AND GUTTER INSTALLATIONS AC SHALL BE BROUGHT TO FINISH GRADE OF FORMS AND TRANSITIONED AS REQUIRED BY THE CITY ENGINEER.
20. ALL FACE ANGLE INSTALLATIONS IN RETURNS SHALL MATCH EXISTING RADIUS OF CURB.



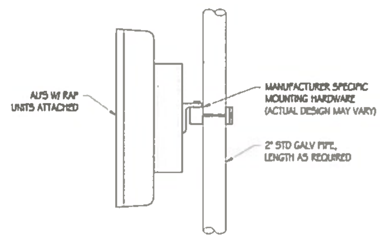
1 CONDUIT TRENCH DETAIL
1"=1'



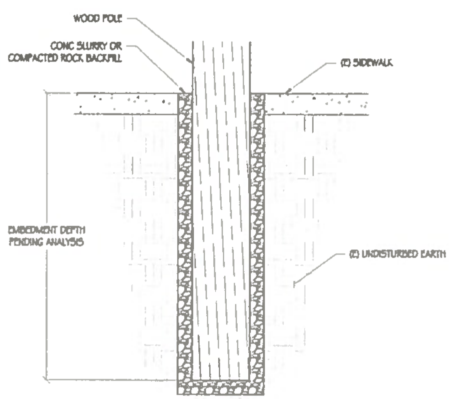
2 CONDUIT TRENCH DETAIL
1"=1'



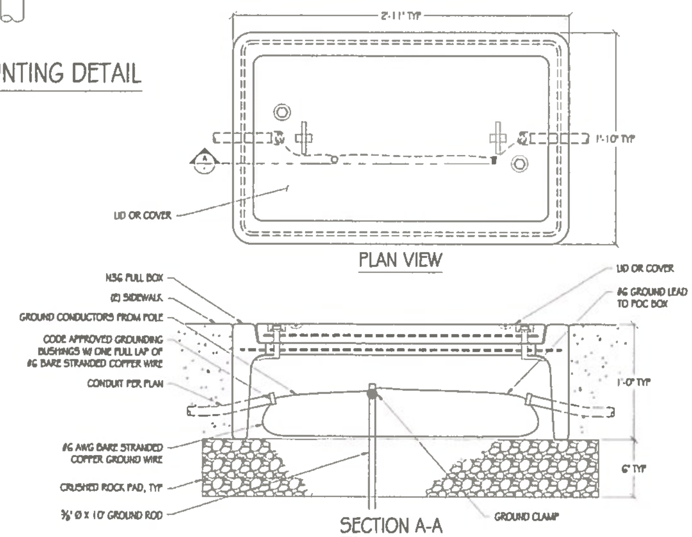
3 POLE CLAMP KIT DETAIL
1/2"=1'-0"



4 AU POLE MOUNTING DETAIL
NTS



5 POLE EMBEDMENT DETAIL
1"=1'



6 TYP PULL BOX
1"=6"

verizon
VERIZON WIRELESS
6636 TRI COUNTY PARKWAY, SUITE #100
SCHERTZ, TX 78154

600 CONGRESS AVENUE, 14TH FLOOR
AUSTIN, TX 78701

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ISSUE STATUS

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DRAWN BY:	I. BAKER
CHECKED BY:	T. DICARLO
APPROVED BY:	B. McCOMB
DATE:	11/14/18

SHEET TITLE:

CONSTRUCTION DETAILS

SHEET NUMBER

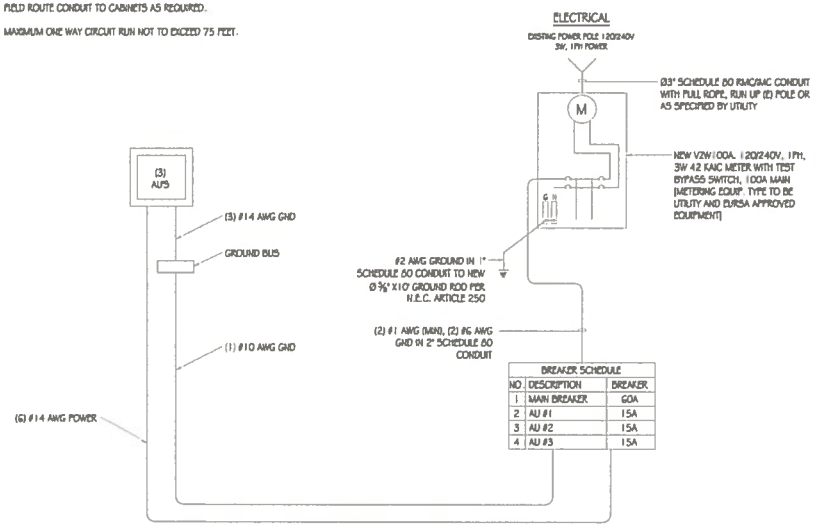
GN-2

GENERAL ELECTRICAL NOTES:

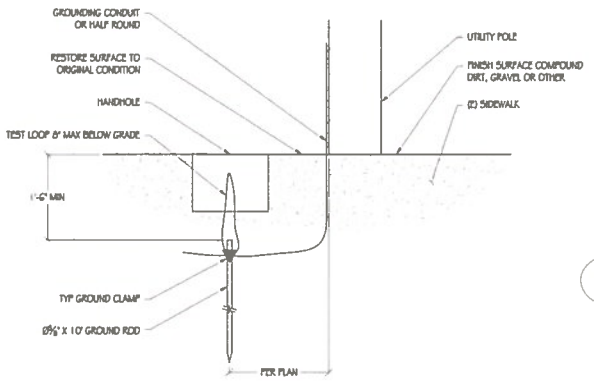
1. PROVIDE ALL ELECTRICAL WORK & MATERIALS AS SHOWN ON THE DWGS, AS CALLED FOR HEREIN, & AS IS NECESSARY TO FURNISH A COMPLETE INSTALLATION.
2. THE INSTALLATION SHALL CONFORM TO THE REQUIREMENTS OF THE CURRENT ADOPTED TEXAS ELECTRICAL CODE, ALL OTHER APPLICABLE CODES AND ORDINANCES & THE REQUIREMENTS OF THE FIRE MARSHALL. ALL EQUIPMENT & WIRING SHALL BEAR THE APPROVAL STAMP OF UNDERWRITERS LABORATORY (UL) OR AN APPROVED TESTING LABORATORY. PAYMENT FOR ALL INSPECTION FEES AND PERMITS ARE PART OF THIS CONTRACT.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFETY AND GOOD CONDITION OF ALL MATERIALS & EQUIPMENT FOR THE ENTIRE INSTALLATION & UNIT COMPLETION OF WORK, ERECT & MAINTAIN APPROVED & SUITABLE BARRIERS, PROTECTIVE DEVICES & WARNING SIGNS, BE FULLY RESPONSIBLE FOR ANY LOSS OR INJURY TO PERSONS OR PROPERTY RESULTING FROM NEGLIGENCE AND/OR ENFORCEMENT OF ALL SAFETY PRECAUTIONS & WARNINGS.
4. COORDINATE THE ELECTRICAL INSTALLATION WITH ALL OTHER TRADES.
5. ALL SAW CUTTING, TRENCHING, BACK FILLING & PATCHING SHALL BE PART OF THIS CONTRACT.
6. FINALIZE ALL ELECTRICAL SERVICE ARRANGEMENTS, INCLUDING VERIFICATION OF LOCATIONS, DETAILS, COORDINATION OF THE INSTALLATION & PAYMENT OF ACCRUED CHARGES WITH LOCAL POWER COMPANY. VERIFY LOCATION FOR FACILITIES & DETAILS WITH POWER UTILITY. IN ADDITION TO THE REQUIREMENTS SHOWN IN THE CONTRACT DOCUMENTS, WORK SHALL COMPLY WITH CONSTRUCTION STANDARDS & SERVICE REQUIREMENTS OF THE RESPECTIVE UTILITIES, INCLUDING ANY SUPPLEMENTAL DWGS ISSUED & SHALL BE SUBJECT TO APPROVAL OF THESE UTILITIES.
7. ALL WIRING SHALL BE COPPER. INSULATION FOR BRANCH CIRCUIT CONDUCTORS SHALL BE TYPE "THWN" CONDUCTORS LARGER AND #6 AWG MAY BE TYPE "THWN" OR "TWN".
8. PROVIDE CONDUIT SEALS FOR ALL CONDUITS PENETRATING WEATHERPROOFING OR WEATHERPROOF ENCLOSURE ENVELOPE. MASTIC SEAL ALL CONDUIT OPENING PENETRATIONS COMPLETELY WATERTIGHT.
9. UNLESS SHOWN OTHERWISE, FUSED DISCONNECT SWITCHES SHALL BE PROVIDED WITH LOW-PEAK, DUAL ELEMENT FUSES SIZED TO EQUIPMENT NAMEPLATE FUSE CURRENT RATING. MOTOR STARTERS SHALL BE PROVIDED WITH SIMILARLY SIZED FUSIBLE ELEMENTS, SWITCHES AND OTHER OUTDOOR EQUIPMENT SHALL BE RATED NEMA 3R AND/OR UL LISTED FOR WET ENVIRONMENT.
10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TESTING THE GROUNDING SYSTEM AND ENSURING A 5 OHM OR LESS GROUNDING PATH, ADDITIONAL GROUND RODS AND/OR CHEMICAL ROD SYSTEM SHALL BE USED TO ACHIEVE THIS REQUIREMENT IF THE GIVEN DESIGN CANNOT BE MADE TO ACHIEVE THIS REQUIREMENT.

POWER AND TELCO NOTES:

1. POWER AND TELCO POINTS OF CONNECTION AND ANY EASEMENTS ARE PRELIMINARY AND SUBJECT TO CHANGE BY THE UTILITY COMPANIES.
2. CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANY FOR FINAL AND EXACT WORK/MATERIALS REQUIREMENTS AND CONSTRUCT TO UTILITY ENGINEERING PLANS AND SPECIFICATIONS ONLY WHERE APPLICABLE PER PROJECT SCOPE OF WORK.
3. CONTRACTOR SHALL FURNISH AND INSTALL CONDUIT, PULL WIRES, CABLE PULL BOXES, CONCRETE ENCASEMENT OF CONDUIT, TRANSFORMER PAD, BARRIERS, POLE RISER TRENCHING, BACK FILL, AND UTILITY FEES, AND INCLUDE REQUIREMENTS IN SCOPE.
4. CONTRACTOR SHALL LABEL ALL MAIN DISCONNECT SWITCHES AS REQUIRED BY CODE.
5. CONTRACTOR SHALL PROVIDE METER WITH DIST. PANEL AND BREAKERS FOR POWER TO THE BTS UNITS AND THE BTS/ UTILITY CABINET.
6. ALL SERVICE EQUIPMENT AND INSTALLATIONS SHALL COMPLY WITH THE N.E.C. AND UTILITY COMPANY AND LOCAL CODE REQUIREMENTS.
7. CONTRACTOR SHALL PROVIDE ELECTRICAL SERVICE ENTRANCE EQUIPMENT WITH FAULT CURRENT RATINGS GREATER THAN THE AVAILABLE FAULT CURRENT FROM THE POWER UTILITY.
8. FIELD ROUTE CONDUIT TO CABINETS AS REQUIRED.
9. MAXIMUM ONE WAY CIRCUIT RUN NOT TO EXCEED 75 FEET.



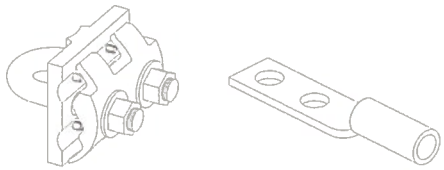
SINGLE-LINE DIAGRAM



NOTES:

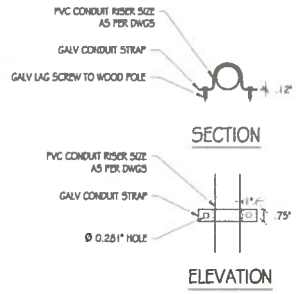
1. 1' GROUND ROD IS INSTALLED ON SIDEWALK AREA, CORE DRILL SIDEWALK PRIOR TO INSTALLING INSPECTION WELL
2. EXPOSED CONCRETE TO HAVE BROOM FINISH

1 POLE GROUNDING DETAIL
NTS

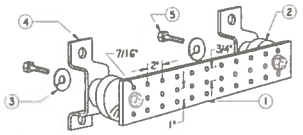


GROUND ROD WIRE CLAMP 2-HOLE LB GROUND LUG

2 TYP MECHANICAL CONNECTIONS
NTS



3 CONDUIT RISER DETAIL
NTS



NOTES:

1. GALVANIZED STEEL GROUND BAR, HOLE CENTERS TO MATCH NEMA DOUBLE LUG CONFIGURATION. (ACTUAL GROUND BAR SIZE WILL VARY BASED ON NUMBER OF GROUND CONNECTIONS)
2. INSULATORS, NEWTON INSTRUMENT CAT. NO. 3061-4 OR APPROVED EQUAL
3. 5/8" LOCK WASHERS, NEWTON INSTRUMENT CO., CAT. NO. 3015-8 OR APPROVED EQUAL
4. WALL MOUNTING BRACKET, NEWTON INSTRUMENT CO., CAT NO. A-6056 OR APPROVED EQUAL
5. 5/8-11 X 1" HHCS BOLTS, NEWTON INSTRUMENT CO., CAT NO. 3012-1 OR APPROVED EQUAL
6. INSULATORS SHALL BE ELIMINATED WHEN BONDING DIRECTLY TO TOWER/MONOPINE STRUCTURE. CONNECTION TO TOWER/MONOPINE STRUCTURE SHALL BE PER MANUFACTURERS RECOMMENDATIONS.

4 GROUND BAR DETAIL
NTS

verizon
VERIZON WIRELESS
6505 TRI COUNTY PARKWAY, SUITE #100
SCHERTZ, TX 78154

600 CONGRESS AVENUE, 16TH FLOOR
AUSTIN, TX 78701

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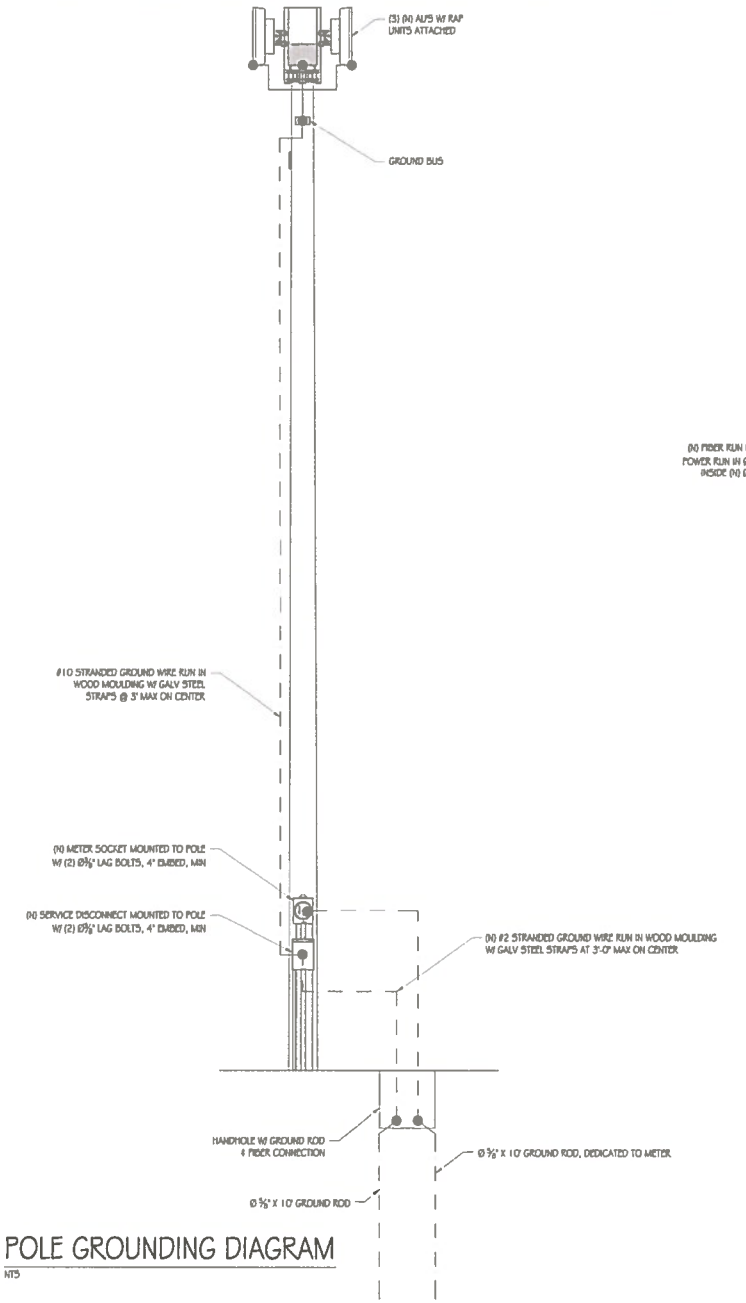
DRAWN BY: I. BAKER
CHECKED BY: T. DCARLO
APPROVED BY: B. McCOMB
DATE: 11/14/18

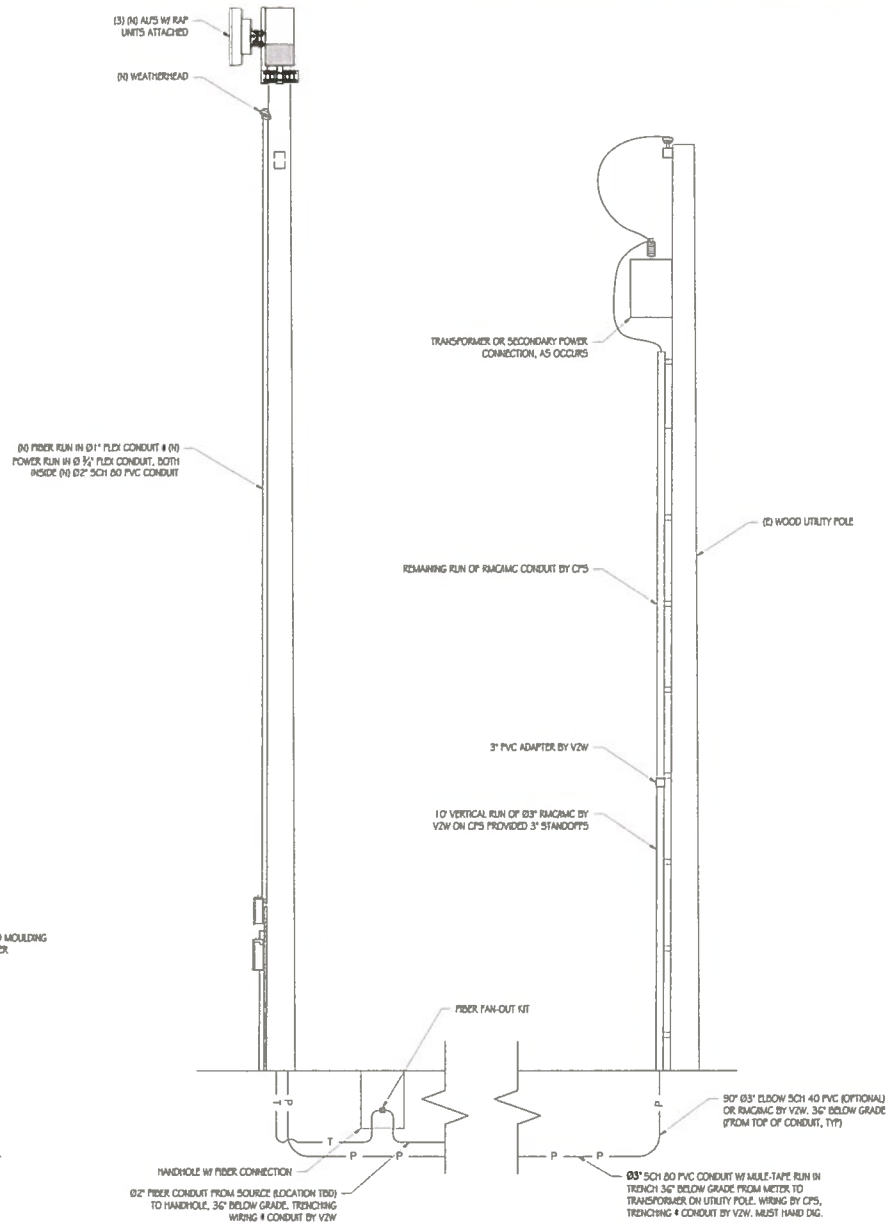
SHEET TITLE:
SINGLE-LINE DIAGRAM & DETAILS

SHEET NUMBER
E-1



POLE GROUNDING DIAGRAM

NTS



POWER CONNECTION DIAGRAM

NTS

verizon

VERIZON WIRELESS
6606 TRI COUNTY PARKWAY, SUITE #100
SCHERTZ, TX 78154

600 CONGRESS AVENUE, 15TH FLOOR
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	11/14/18	CD 30%

DRAWN BY:	I. BAKER
CHECKED BY:	T. DCARLO
APPROVED BY:	B. McCOMB
DATE:	11/14/18

SHEET TITLE:

ELECTRICAL DIAGRAMS

SHEET NUMBER

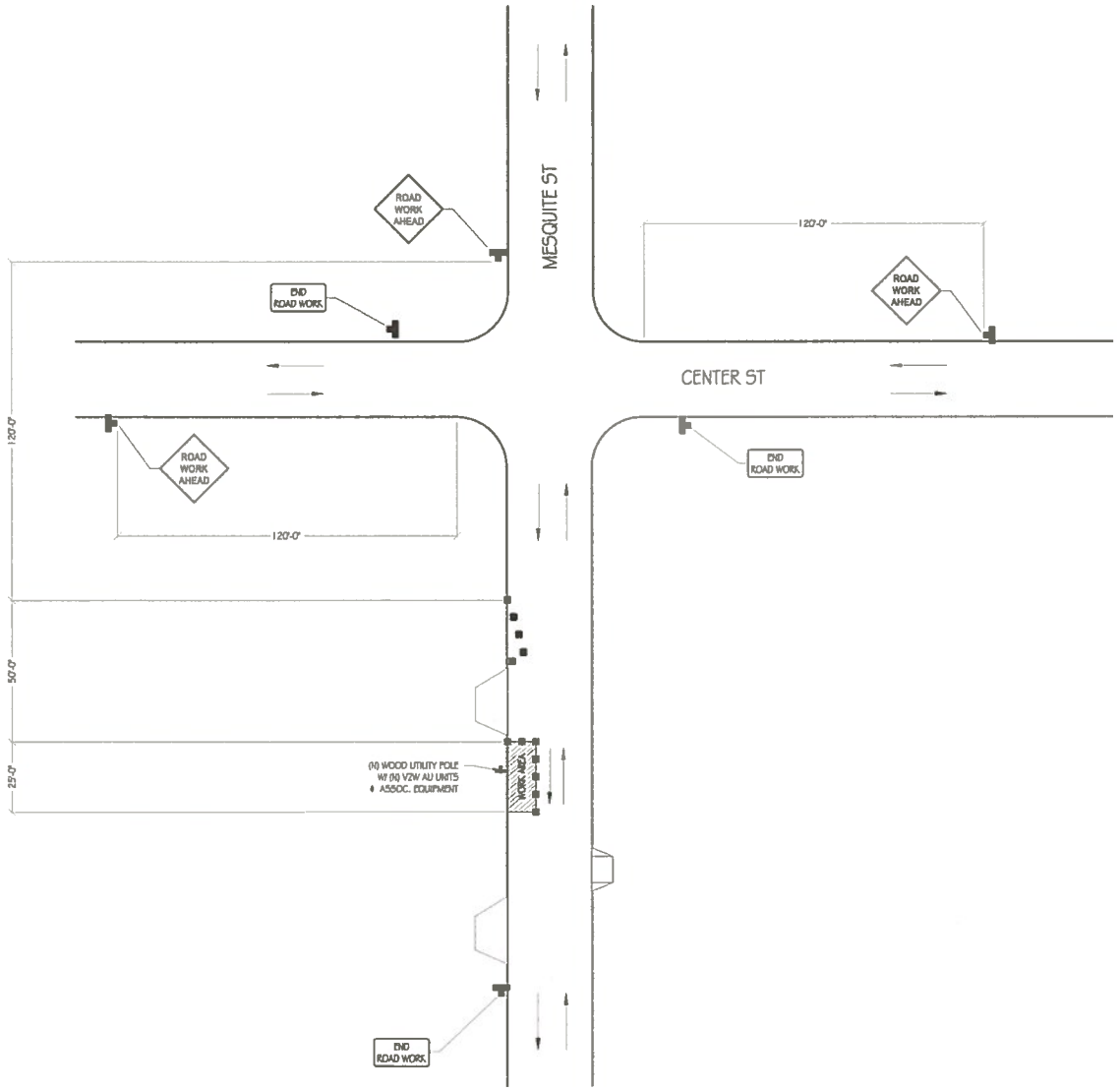
E-2

TRAFFIC CONTROL NOTES

1. IT IS THE RESPONSIBILITY OF THE CONTRACTOR PERFORMING WORK ON A PUBLIC STREET TO INSTALL AND MAINTAIN THE TRAFFIC CONTROL DEVICES AS SHOWN HEREIN, AS WELL AS ANY ADDITIONAL TRAFFIC CONTROL DEVICES THAT MAY BE REQUIRED TO INSURE THE SAFE MOVEMENT OF TRAFFIC AND PEDESTRIANS THROUGH OR AROUND THE WORK AREA AND PROVIDE MAXIMUM PROTECTION AND SAFETY TO CONSTRUCTION WORKERS.
2. ALL DELINEATORS SHALL BE EQUIPPED WITH REFLECTORS AT NIGHT TIME.
3. THE CONTRACTOR SHALL NOTIFY THE CITY/COUNTY OF RECORD AND TxDOT PERMIT INSPECTOR AT LEAST FIVE WORKING DAYS IN ADVANCE OF IMPLEMENTING ANY CONSTRUCTION DETOUR.
4. ALL SIGNS, DELINEATORS, BARRICADES, ETC. AND THEIR INSTALLATION SHALL CONFORM TO THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (LATEST EDITION) AND THE MUTCD TEXAS SUPPLEMENT, STATE OF TEXAS STANDARD SPECIFICATIONS, SPECIAL PROVISIONS, AND STAMPED PLANS.
5. THE CITY/COUNTY OF RECORD AND TxDOT RESERVE THE RIGHT TO OBSERVE THESE TRAFFIC CONTROL PLANS IN USE AND TO MAKE ANY NECESSARY CHANGES AS FIELD CONDITIONS WARRANT. ANY CHANGES SHALL SUPERSEDE THESE PLANS. EXACT LOCATION OF ALL EQUIPMENT AND TRAFFIC CONTROL DEVICES SHALL BE DETERMINED BY THE ENGINEER.
6. ALL TRAFFIC CONTROL DEVICES, STRIPES, MARKINGS, LEGENDS AND RAISED PAVEMENT MARKERS SHALL CONFORM TO THE MUTCD AND THE TEXAS SUPPLEMENT (LATEST EDITION), THE STATE OF TEXAS STANDARD SPECIFICATIONS (LATEST EDITION), SPECIAL PROVISIONS, AND STAMPED PLANS.
7. ALL TRAFFIC CONTROL DEVICES SHALL BE KEPT IN THEIR PROPER POSITION AT ALL TIMES AND SHALL BE REPAIRED, REPLACED OR CLEANED AS NECESSARY TO PRESERVE THEIR APPEARANCE AND CONTINUITY.
8. ALL TRAFFIC LANES SHALL HAVE A MINIMUM OF 5 FEET CLEARANCE FROM OPEN EXCAVATIONS AND A MINIMUM OF 2 FEET FROM VERTICAL OBSTRUCTIONS.
9. CONTRACTOR SHALL PROVIDE FLAGGERS AS DEEMED NECESSARY BY THE CITY/COUNTY INSPECTOR OR TxDOT PERMIT INSPECTOR.
10. ALL ADVANCED WARNING SIGNS SHALL BE EQUIPPED WITH FLAGS.
11. TRAFFIC SIGNALS SHALL REMAIN IN OPERATION AT ALL TIMES. SIGNAL OPERATION DURING EACH CONSTRUCTION PHASE SHALL BE COORDINATED WITH AND APPROVED BY THE CITY/COUNTY OF RECORD AND/OR TxDOT INSPECTOR.
12. PLACE ADDITIONAL "LANE CLOSED", (C30) SIGNS ON TYPE II BARRICADES AT 1,00 FOOT INTERVALS THROUGHOUT EXTENDED WORK AREAS IN EACH LANE THAT IS CLOSED. INSTALL "OPEN TRENCH" (C27) SIGNS WHENEVER AN OPEN EXCAVATION AREA EXISTS ADJACENT TO THE TRAVELED WAY.
13. ALL TEMPORARY TRAFFIC CONTROL DEVICES SHALL BE REMOVED FOLLOWING COMPLETION OF EACH CONSTRUCTION STAGE AND THE PERMANENT TRAFFIC CONTROL DEVICES SHALL BE RESTORED BY THE CONTRACTOR UPON COMPLETION OF PROJECT.
14. CONTRACTOR SHALL REPLACE/REPAIR ALL DAMAGED STRIPING AT THE END OF EACH WORKING DAY.
15. CONTRACTOR SHALL COMPLY WITH THE REQUIREMENTS OF THE AMERICAN DISABILITY ACT AS RELATED TO PEDESTRIAN ACCESS AND SHALL MAINTAIN PEDESTRIAN ACCESS AT ALL TIMES PER ADA REQUIREMENTS. SIDEWALK CLOSURE/DETOUR SHALL COMPLY WITH THE WATCH STANDARDS AND MUST OBTAIN APPROVAL FROM THE CITY/COUNTY OF RECORD.
16. CONTRACTOR SHALL COVER OR REMOVE ALL CONFLICTING SIGNS.
17. CONTRACTOR SHALL POST "SYMBOL" UNEVEN LANES, "STEEL PLATES AHEAD" OR "BUMP" SIGNS FOR PAVEMENT SURFACE DISRUPTIONS OF ½" OR GREATER. PAVEMENT DISRUPTIONS FOR 1" OR GREATER SHALL HAVE A BEVELED EDGE OF FOUR (4) HORIZONTAL TO ONE (1) VERTICAL.
18. CONTRACTOR SHALL INSTALL "CAUTION STEEL PLATES AHEAD" AND/OR "ROUGH ROAD" SIGNS IN ADVANCE OF STEEL PLATE BRIDGING.
19. CONTRACTOR SHALL VERIFY ALL NECESSARY EQUIPMENT NEEDED FOR OVERHEAD CONSTRUCTION PRIOR TO THE START OF CONSTRUCTION.
20. WORK HOURS SHALL COMPLY WITH CITY OF SAN ANTONIO CONSTRUCTION CODE.
21. RESIDENTS TO BE NOTIFIED OF DATES & TIMES OF CONSTRUCTION (2) WEEKS PRIOR TO THE START OF WORK.
22. A 5'-0" MIN. PEDESTRIAN CLEARANCE TO BE MAINTAINED AT EXISTING SIDEWALKS.
23. POSTED SPEED 30 MPH ON MESQUITE ST.

TRAFFIC SYMBOL LEGEND

- TRAFFIC CONE
- TRAFFIC SIGN
- LANE DIRECTION
- WORK AREA
- ROAD WORK AHEAD — "ROAD WORK AHEAD" SIGN
- END ROAD WORK — "END ROAD WORK" SIGN



TRAFFIC CONTROL PLAN

1"=20'

0 10' 20' 40' 60' 100'

verizon

VERIZON WIRELESS
6606 TRI CENTER BOULEVARD, SUITE #100
SCHERTZ, TX 78154

600 CONGRESS AVENUE, 16TH FLOOR
AUSTIN, TX 78701

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PROFESSIONAL ENGINEER

SADT_MESQUITE_PASO_SC

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ISSUE STATUS

△	DATE	DESCRIPTION
	11/14/18	CD 90%

DRAWN BY:	J. KIMBERLIN
CHECKED BY:	C. OSTROM
APPROVED BY:	B. McCOMB
DATE:	11/14/18

SHEET TITLE:

TRAFFIC CONTROL PLAN

SHEET NUMBER

TR-1