




PROJECT: NEW BUILD
SITE NAME: LSC MCNUTT
LOCATION CODE: 300209
PROJECT NUMBER: 201041085225
STRUCTURE TYPE: 80' MONOPOLE TOWER
ADDRESS: 100 AIRPORT ROAD
SANTA TERESA, NM 88008



09/11/2017

PE RENEWAL DATE DECEMBER 31, 2017

PROJECT SUMMARY	LOCATION MAP	PROJECT INFORMATION	DRAWINGS INDEX																																																																																																																																																																		
<p>APPLICANT: VERIZON WIRELESS 4821 EUBANK NE ALBUQUERQUE, NM 87111 CONTACT: JEFF DEWALT PHONE: 505.250.0004</p> <p>SITE ACQUISITION: KGI WIRELESS, INC. CONTACT: RYAN HAVENHILL PHONE: 512.334.3213 EMAIL: RYAN.HAVENHILL@KGIWIRELESS.COM</p> <p>ENGINEER: KGI WIRELESS, INC. BUILDING THREE, SUITE 370 805 LAS CIMAS PKWY. AUSTIN, TX 78746 TYLER BOLINGER, P.E. PRINCIPAL ENGINEER PHONE: 512.334.3256</p> <p>SURVEYOR: CLAUSEN LAND SURVEYING, LLC 5328 COUNTRY OAKS DR. EL PASO, TEXAS 79932 915.355.9482</p> <p>TOWER OWNER: VERIZON WIRELESS 126 W GEMINI DRIVE TEMPE, AZ 85283</p> <p>LATITUDE AND LONGITUDE(NAD83): 31° 51' 48.529" N 106° 39' 19.435" W</p> <p>ELEVATION 3841'</p> <p>COUNTY: DONA ANA</p> <p>JURISDICTION: STATE OF NEW MEXICO</p> <p>POWER COMPANY: EL PASO ELECTRIC 201 NORTH WATER STREET LAS CRUCES, NEW MEXICO 88001 575.523.3630</p> <p>AAV PROVIDER: CONTERRA</p> <p>PUBLIC RECORD PARCEL NO: 17-03880</p>	 <p>DRIVING DIRECTIONS</p> <p>FROM ALBUQUERQUE, NM PROCEED TO ON I-25 S. FOLLOW I-25 S TO LAS CRUCES. MERGE ONTO I-10 S. FOLLOW I-10 S TO TX-178/ARTCRAFT RD/PASEO DEL NORTE. MERGE ONTO S DESERT BLVD. CONTINUE TO NM-136 W. TURN LEFT ON NM-273 S/MCNUTT RD. TURN RIGHT ONTO AIRPORT RD. TAKE AIRPORT ROAD 1 MI. SITE IS ON RIGHT.</p>	<table><thead><tr><th>OCCUPANCY CLASSIFICATION:</th><th>TYPE II-B</th><th>REQUIRED-ALLOWED</th><th>PROVIDED</th><th>COMPLIANCE</th></tr></thead><tbody><tr><td>FIRE SPRINKLERS:</td><td>NO</td><td>NO</td><td>NO</td><td>YES</td></tr><tr><td>FIRE ALARM:</td><td>NO</td><td>NOT APPLICABLE</td><td>NOT APPLICABLE</td><td>YES</td></tr><tr><td>BUILDING HEIGHT:</td><td>UP TO 50 FEET</td><td>NOT APPLICABLE</td><td>NOT APPLICABLE</td><td>YES</td></tr><tr><td>BUILDING STORIES:</td><td>2</td><td>NOT APPLICABLE</td><td>NOT APPLICABLE</td><td>YES</td></tr><tr><td>BUILDING AREA:</td><td>UP TO 9000 SQ. 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NOTHING IN THESE PLANS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THESE CODES.</p> <ul style="list-style-type: none">INTERNATIONAL BUILDING CODE, 2009 EDITION AS ADOPTED BY LOCAL JURISDICTIONNFPA 70 - NATIONAL ELECTRIC CODE, 2014 EDITION AS ADOPTED BY LOCAL JURISDICTION <p>ADA COMPLIANCE: THIS FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION LANDINGS AND EXITS SHALL COMPLY WITH ALL APPLICABLE BUILDING CODES.</p> <p>FCC COMPLIANCE: EVERY WIRELESS TELECOMMUNICATIONS FACILITY SHALL MEET THE REGULATIONS OF THE FCC REGARDING PHYSICAL AND ELECTROMAGNETIC INTERFERENCE. THE ONLY SIGNAGE WHICH IS PERMITTED IS THAT WHICH IS REQUIRED BY STATE OR FEDERAL LAW. RADIATION FROM THIS FACILITY WILL NOT INTERFERE WITH OPERATION OF OTHER COMMUNICATION DEVICES.</p> <p>HEALTH ISSUES: EVERY WIRELESS TELECOMMUNICATIONS FACILITY SHALL MEET HEALTH AND SAFETY STANDARDS FOR ELECTROMAGNETIC FIELD EMISSIONS AS ESTABLISHED BY THE FEDERAL COMMUNICATIONS COMMISSION OR ANY SUCCESSOR THEREOF, AND ANY OTHER FEDERAL OR STATE AGENCY.</p>	OCCUPANCY CLASSIFICATION:	TYPE II-B	REQUIRED-ALLOWED	PROVIDED	COMPLIANCE	FIRE SPRINKLERS:	NO	NO	NO	YES	FIRE ALARM:	NO	NOT APPLICABLE	NOT APPLICABLE	YES	BUILDING HEIGHT:	UP TO 50 FEET	NOT APPLICABLE	NOT APPLICABLE	YES	BUILDING STORIES:	2	NOT APPLICABLE	NOT APPLICABLE	YES	BUILDING AREA:	UP TO 9000 SQ. FT.	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<p>SCOPE OF WORK</p> <ol style="list-style-type: none">THIS WIRELESS COMMUNICATIONS FACILITY IS NOT INTENDED FOR HUMAN OCCUPANCYTHIS FACILITY DOES NOT REQUIRE POTABLE WATER AND WILL NOT PRODUCE ANY SEWAGE.THE SCOPE OF WORK CONSISTS OF MODIFYING THE EXISTING WIRELESS INSTALLATION:<ol style="list-style-type: none">80' MONOPOLE CELLULAR TOWEREQUIPMENT CABINETS ON CONCRETE FOUNDATIONCOMPOUND SURFACING & FENCEELECTRICAL AND CIVIL CONSTRUCTION		<p>GENERAL PROJECT NOTES</p> <ol style="list-style-type: none">PRIOR TO SUBMITTING A BID, THE CONTRACTOR SHALL BE FAMILIAR WITH THE SCOPE OF WORK AND ALL CONDITIONS AFFECTING THE NEW PROJECT.CONTRACTOR SHALL VERIFY ALL FIELD CONDITIONS AND DIMENSIONS OF THE JOB SITE AND CONFIRM THAT WORK AS INDICATED ON THESE CONSTRUCTION DOCUMENTS CAN BE ACCOMPLISHED AS SHOWN PRIOR TO COMMENCEMENT OF ANY WORK.ALL FIELD MODIFICATIONS BEFORE, DURING, OR AFTER CONSTRUCTION SHALL BE APPROVED IN WRITING BY A VERIZON WIRELESS REPRESENTATIVE.INSTALL ALL EQUIPMENT AND MATERIALS PER THE MANUFACTURER'S RECOMMENDATIONS, U.N.O.NOTIFY VERIZON WIRELESS, IN WRITING, OF ANY MAJOR DISCREPANCIES REGARDING THE CONTRACT DOCUMENTS, EXISTING CONDITIONS, AND DESIGN INTENT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING CLARIFICATIONS FROM A VERIZON WIRELESS REPRESENTATIVE AND ADJUSTING THE BID ACCORDINGLY.CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES OF THE WORK UNDER THE CONTRACT.CONTRACTOR SHALL PROTECT ALL EXISTING IMPROVEMENTS AND FINISHES THAT ARE TO REMAIN. CONTRACTOR SHALL REPAIR ANY DAMAGE THAT MAY OCCUR DURING THE CONSTRUCTION TO THE SATISFACTION OF A VERIZON WIRELESS REPRESENTATIVE.THE CONTRACTOR IS RESPONSIBLE FOR RED-LINING THE CONSTRUCTION PLANS TO ILLUSTRATE THE AS BUILT CONDITION OF THE SITE. FOLLOWING THE FINAL INSPECTION BY VERIZON WIRELESS, THE CONTRACTOR SHALL PROVIDE VERIZON WIRELESS WITH ONE COPY OF ALL RED-LINED DRAWINGS.VERIFY ALL FINAL EQUIPMENT WITH A VERIZON WIRELESS REPRESENTATIVE. ALL EQUIPMENT LAYOUT, SPECS, PERFORMANCE INSTALLATION AND THEIR FINAL LOCATION ARE TO BE APPROVED BY VERIZON WIRELESS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING HIS/HER WORK WITH THE WORK AND CLEARANCES REQUIRED BY OTHERS RELATED TO SAID INSTALLATIONS.																																																																																																																																																																			



KGI WIRELESS, INC.
805 LAS CIMAS PKWY
BUILDING THREE, SUITE 370
AUSTIN, TX 78746
TEL: 512.345.9595
FAX: 512.345.9898

SITE NAME:
LSC MCNUTT

LOCATION CODE:
300209

SITE ADDRESS:
100 AIRPORT ROAD
SANTA TERESA, NM 88008

THESE DRAWINGS ARE THE PROPERTY OF VERIZON WIRELESS. THEY ARE INTENDED FOR THE EXCLUSIVE USE OF THIS PROJECT ONLY. ANY RE-USE OF THESE PLANS (DRAWINGS) WITHOUT THE EXPRESS WRITTEN CONSENT OF VERIZON WIRELESS IS PROHIBITED.

ISSUED FOR:	DATE
REVIEW REV B	10/18/2016
REVIEW REV C	04/03/2017
CONSTRUCTION REV 0	07/20/2017
CONSTRUCTION REV 1	09/11/2017

REVISION			
NO	DESCRIPTION	BY	DATE

SHEET TITLE:
TITLE SHEET

SHEET NUMBER:
T1

NOTE: DRAWING SCALES ARE FOR 11"x17" SHEETS

GENERAL PROJECT NOTES:

1. CONTRACTOR IS RESPONSIBLE FOR ERECTING TEMPORARY BARRICADES AND/OR FENCING TO PROTECT THE SAFETY OF THE PUBLIC DURING CONSTRUCTION. THE CONTRACTOR SHALL REMOVE ALL TEMPORARY BARRIERS AND REPAIR ALL DAMAGE TO PROPERTY ON THE SITE CAUSED BY THIS CONSTRUCTION. THE COST OF REPAIR IS THE CONTRACTOR'S RESPONSIBILITY.
2. ALL WORK SHALL BE IN ACCORDANCE WITH APPLICABLE LOCAL, STATE, AND FEDERAL REQUIREMENTS.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF ALL MEASUREMENTS AT THE SITE PRIOR TO ORDERING ANY MATERIALS OR CONDUCTING ANY WORK.
4. EXCESS SOIL MATERIAL AND DEBRIS CAUSED BY THIS CONSTRUCTION SHALL BE REMOVED FROM THE SITE AND DISPOSED OF IN A LEGAL MANNER.
5. CONTRACTOR SHALL MAKE ADJUSTMENTS TO GRADING ELEVATIONS AS NECESSARY TO ENSURE A SITE FREE OF DRAINAGE PROBLEMS.
6. CONTRACTOR SHALL COORDINATE A CONSTRUCTION LAY-DOWN AREA WITH THE PROPERTY OWNER. CONSTRUCTION LAY-DOWN AREA SHALL BE FENCED-IN WITH TEMPORARY (45 DAY) CONSTRUCTION FENCE. THE TEMPORARY FENCE SHALL BE CONSTRUCTED OF 6' HIGH CHAIN LINK FABRIC AND IS TO BE REMOVED AT THE END OF CONSTRUCTION. LAY-DOWN AREA IS TO BE RESTORED TO ITS ORIGINAL CONDITION AFTER FENCE REMOVAL.
7. SURVEY INFORMATION SHOWN WAS CREATED FROM RECORD INFORMATION AND DOES NOT CONSTITUTE A LEGAL BOUNDARY SURVEY.
8. THESE PLANS DO NOT ADDRESS THE SAFETY AND STABILITY OF THE STRUCTURE DURING ASSEMBLY AND ERECTION, WHICH ARE THE RESPONSIBILITY OF THE ERECTOR, BASED ON THE MEANS AND METHODS CHOSEN BY THE ERECTOR.
9. NEW EQUIPMENT COMPOUND SHALL BE COVERED W/ 4" CRUSHED ROCK INSTALLED OVER CLIENT-APPROVED WEED BARRIER MATERIAL (IF APPLICABLE).

GENERAL CONTRACTOR NOTES:

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COMPLETE PROJECT SCOPE OF WORK DEFINED UNDER THE REQUEST FOR PROPOSAL (RFP) FOR THIS PROJECT AND ALL ASSOCIATED ATTACHMENTS AND DOCUMENTS PROVIDED.
- THE RFP AND ALL ASSOCIATED DOCUMENTS SHALL DEFINE THE COMPLETE PROJECT SCOPE OF WORK. CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLIANCE WITH ALL DOCUMENTS AND IS SOLELY RESPONSIBLE FOR ALL WORK.
- ALL DOCUMENTS INCLUDED WITHIN THE PROJECT REQUEST FOR PROPOSAL ARE REQUIRED FOR THE COMPLETE PROJECT SCOPE OF WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL WORK (EQUIPMENT, MATERIAL, INSTALLATION, TESTING, ETC.) INDICATED IN ALL DOCUMENTS. THE RFP, VERIZON WIRELESS NETWORK STANDARDS AND PROJECT ADDENDUMS AND CLARIFICATIONS ARE COMPLEMENTARY TO EACH OTHER. THE FORMAT OF THE SPECIFICATIONS AND DRAWING NUMBERING PER DISCIPLINE IS NOT INTENDED TO IMPLY SEGREGATION OF SUB CONTRACTOR WORK. CONTRACTOR SHALL ASSIGN ALL SUB CONTRACTOR WORK AND VERIZON WIRELESS WILL NOT ACCEPT ANY CHANGE ORDERS FOR INTERNAL CONTRACTOR WORK ASSIGNMENTS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR DISTRIBUTING ALL RFP DOCUMENTS TO THEIR SUB CONTRACTORS. ALL RFP DOCUMENTS ARE REQUIRED TO INDICATE THE PROJECT SCOPE OF WORK. PARTIAL SUB CONTRACTOR DOCUMENT PACKAGES ARE HIGHLY DISCOURAGED.
- IN THE EVENT OF A CONFLICT BETWEEN THE DRAWINGS, SPECIFICATIONS, REFERENCED STANDARDS, VERIZON WIRELESS STANDARDS, OR AGREEMENT TERMS AND CONDITIONS THE ARCHITECT/ENGINEER SHALL BE CONTACTED FOR FORMAL INTERPRETATION OF THE REQUIREMENTS. THE CONTRACTOR SHALL BE DEEMED TO HAVE PROVIDED THE DETAILED AND EXTENSIVE INTERPRETATION. ANY WORK INSTALLED IN CONFLICT WITH THE ARCHITECT/ENGINEER INTERPRETATIONS SHALL BE CORRECTED BY THE CONTRACTOR AT NO EXPENSE TO VERIZON WIRELESS.
2. ALL ANTENNAS MUST BE PIM TESTED WITHIN 48 HOURS OF THEM BEING RECEIVED BY THE INSTALLATION CONTRACTOR. THOSE RESULTS MUST BE SENT BACK TO THE VERIZON WIRELESS CONSTRUCTION ENGINEER AND EQUIPMENT ENGINEER WITHIN THE SAME 48 HOURS. IF YOU MISS THE 48HR TIMELINE AND THE ANTENNAS DO NOT PASS UPON INSTALLATION, YOUR COMPANY WILL BE CHARGED FOR THE COST OF THE ANTENNAS FOR REPLACEMENT.
3. ALL LOADS MUST BE SECURED PROPERLY TO THE VEHICLE OR TRAILER. VERIZON WIRELESS WILL PASS ALONG THE COST OF ANY REPLACEMENTS DUE TO DAMAGE OR LOSS WHETHER IT IS NEW OR USED.
4. ALL VENDORS ARE REQUIRED TO SHOW UP TO THE DC IN TEMPE, OR DELTA/KING COMMUNICATIONS, OR BROKEN ARROW IN NM WITH ENCLOSED TRANSPORTATION FOR ALL ELECTRONICS.

ANTENNA, MOUNTS AND HARDWARE INSTALLATION NOTES:

1. CONTRACTOR TO INSTALL ANTENNAS, MOUNTS AND TOWER HARDWARE PER MANUFACTURER'S RECOMMENDATIONS (OR AS REQUIRED BY THE OWNER/PROVIDER).
2. ALL BOLTS SHALL BE TIGHTENED PER AISC REQUIREMENTS (SEE STEEL NOTES).
3. ANY GALVANIZED SURFACES THAT ARE DAMAGED BY ABRASIONS, CUTS, DRILLING OR FIELD WELDING DURING SHIPPING OR ERECTION SHALL BE TOUCHED-UP WITH TWO COATS OF COLD GALVANIZING COMPOUND MEETING THE REQUIREMENTS OF ASTM A780.
4. ANTENNA MOUNTS SHALL NOT BE USED AS A CLIMBING DEVICE. WORKERS SHALL ALWAYS TIE OFF TO AN APPROVED CLIMBING POINT.
5. SEE ALSO GENERAL ANTENNA NOTES ON SHEET RF1 (IF APPLICABLE).

STRUCTURAL DESIGN CRITERIA:

ALL LOADS DERIVED FROM REQUIREMENTS OF INTERNATIONAL BUILDING CODE 2009, ASCE 7-05, "MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES" & ANSI TIA-222-G "STRUCTURAL STANDARD FOR ANTENNA SUPPORTING STRUCTURES AND ANTENNAS".

BUILDING STRUCTURES:

1. WIND LOADS: IBC 2009 §1609 & ASCE 7-05 §6.4 (SIMPLIFIED METHOD)
 $V_3s = 90 \text{ MPH}$
OCCUPANCY CAT. = II; EXPOSURE CAT. = C; IMPORTANCE FACTOR = 1.0
2. SEISMIC LOADS: IBC 2009 §1613 & ASCE 7-05 §12.14 (SIMPLIFIED METHOD)
OCCUPANCY CAT. = II; SITE CLASS = D
 $V = F(S DS)W/R$
 $F = 1.0$ (SINGLE-STORY), 1.1 (TWO STORY), 1.2 (THREE STORY)
 $Sds = (2/3) Sms$
 $R = 1.5$ (ORDINARY PLAIN CONCRETE SHEARWALLS),
6.5 (LIGHT-FRAMED WALLS W/ WOOD STRUCTURAL PANELS),
4.0 (ORDINARY REINFORCED CONCRETE SHEARWALLS)

COMMUNICATIONS STRUCTURES:

1. WIND LOADS: IBC 2009 §1609, ASCE 7-05 §6.5.15 & ANSI TIA-222-G
 $V = 90 \text{ MPH}$ (3-SEC. GUST)
 $V = 30 \text{ MPH}$ (0" RADIAL ICE)
STRUCTURE CLASS = II; EXPOSURE CAT. = C; IMPORTANCE FACTOR = 1.0
2. SEISMIC LOADS*: IBC 2009 §1613, ASCE 7-05 §15.6.6 & ANSI TIA-222-G
*MAY BE IGNORED FOR STRUCTURE CLASS I AND/OR EARTHQUAKE SPECTRAL RESPONSE FOR SHORT PERIOD ($S_s \leq 1.0$)
STRUCTURAL CLASS = II; OCC. CAT. = II; SITE CLASS = D; IMPORTANCE FACTOR = 1.0
 $V = Sds(W)/R$ (EQUIVALENT LATERAL FORCE PROCEDURE (METHOD 1))
 $V = \sum S_{az}(W_z)/R$ (EQUIVALENT MODAL ANALYSIS PROCEDURE (METHOD 2))

STEEL NOTES:

1. ALL STEEL SHALL BE GALVANIZED PER ASTM A 123 & CONFORM TO THE FOLLOWING MINIMUM SPECIFICATIONS:
HSS SHAPES (TUBE) ASTM A500, GR. B (46 KSI)
HSS SHAPES (ROUND) ASTM A500, GR. B (42 KSI)
W-SHAPES ASTM A992, (50 KSI)
CHANNELS, ANGLES & PLATES ASTM A36
2. ALL BOLTS SHALL BE GALVANIZED PER ASTM A153 AND CONFORM TO ASTM A325 U.N.O. ALL BOLTED CONNECTIONS SHALL BE EQUIPPED WITH AN APPROVED NUT-LOCKING DEVICE.
3. ALL WELDING WORK SHALL CONFORM TO THE AWS D1.1 STRUCTURAL WELDING CODE. ALL WELDING SHALL BE PERFORMED BY CERTIFIED WELDERS ONLY. WELDING ELECTRODES SHALL BE E70XX.
4. ALL DETAILING, FABRICATION AND ERECTION OF STRUCTURAL STEEL SHALL CONFORM TO AISC SPECS AND CODES, LATEST EDITION.
5. AT HIS OWN DISCRETION, THE CONTRACTOR MAY SUBMIT DETAILED, ENGINEERED, COORDINATED AND CHECKED SHOP DRAWINGS FOR ALL STRUCTURAL STEEL TO THE ENGINEER OF RECORD TO REVIEW FOR COMPLIANCE WITH DESIGN INTENT PRIOR TO THE START OF FABRICATION AND/OR ERECTION. THE ENGINEER IS ABSOLVED OF ALL LIABILITY ASSOCIATED WITH THE MISINTERPRETATION OF THE CONSTRUCTION DOCUMENTS IF CONTRACTOR CHOOSES NOT TO SUBMIT SHOP DRAWINGS.
6. TORCH-CUTTING OF ANY KIND SHALL NOT BE PERMITTED.
7. ALL BOLTS SHALL BE TIGHTENED TO AISC SNUG TIGHT REQUIREMENTS. THE SNUG TIGHT CONDITION IS DEFINED AS THE TIGHTNESS THAT EXISTS WHEN ALL PLIES IN A JOINT ARE IN FIRM CONTACT. THIS MAY BE ATTAINED BY A FEW IMPACTS OF AN IMPACT WRENCH OR THE FULL EFFORT OF A MAN USING AN ORDINARY SPUD WRENCH.

FOUNDATION NOTES:

1. THE CONTRACTOR SHALL READ THE GEOTECHNICAL REPORT (IF AVAILABLE) AND SHALL CONSULT THE GEOTECHNICAL ENGINEER AS NECESSARY PRIOR TO CONSTRUCTION.
2. THE GEOTECHNICAL ENGINEER (OR INSPECTOR) SHALL INSPECT THE EXCAVATION PRIOR TO THE PLACEMENT OF CONCRETE AND SHALL PROVIDE A NOTICE OF INSPECTION FOR THE BUILDING INSPECTOR FOR REVIEW AND RECORDS PURPOSES.
3. THE CONTRACTOR SHALL DETERMINE THE MEANS AND METHODS NECESSARY TO SUPPORT THE EXCAVATION DURING CONSTRUCTION.
4. REBAR AT BOTTOM OF FOUNDATIONS SHALL BE BONDED TO SITE GROUNDING SYSTEM (WHEN APPLICABLE). SEE ADDITIONAL DETAILS ON GROUNDING SITE PLAN.
5. ALL FOOTINGS TO BE PLACED ON FIRM, UNDISTURBED, INORGANIC MATERIAL. PROOF ROLL SUB-GRADE PRIOR TO PLACING CONCRETE WHERE THE MATERIAL HAS BEEN DISTURBED BY EQUIPMENT. UNACCEPTABLE/DISTURBED MATERIAL SHALL BE OVER-EXCAVATED AND REPLACED WITH "LEAN CONCRETE FILL".
6. STRUCTURAL BACKFILL SHALL BE GRANULAR FREE-DRAINING MATERIAL FREE OF DEBRIS, ORGANICS, REFUSE AND OTHERWISE DELETERIOUS MATERIALS. MATERIAL SHALL BE PLACED IN LIFTS NO GREATER THAN 6" IN DEPTH AND COMPACTED TO 95% OF MAXIMUM DENSITY AS DETERMINED PER ASTM D1557 (MODIFIED PROCTOR).

CONCRETE NOTES:

1. ALL CONCRETE SHALL BE IN ACCORDANCE WITH CHAPTER 19 OF THE IBC & ACI 318, "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE", LATEST EDITION & HAVE THE FOLLOWING PROPERTIES:
A. MINIMUM 28-DAY COMPRESSIVE STRENGTH (f'_c) OF 4,000 PSI.
B. CEMENT SHALL BE "LOW-ALKALI" TYPE IIA (MODERATE SULFATE RESISTANCE, AIR ENTRAINING) CONFORMING TO ASTM C150.
C. MAXIMUM WATER/CEMENT RATIO OF 0.45 AND AIR-ENTRAINED 4% TO 7%
D. CONCRETE PROPORTIONING SHALL BE DESIGNED BY AN APPROVED LABORATORY. TOLERANCES IN ACCORDANCE WITH ACI 117. COPIES OF CONCRETE MIX SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW PRIOR TO PLACEMENT.
E. ALL AGGREGATE USED IN CONCRETE SHALL CONFORM TO ASTM C33. USE ONLY AGGREGATES KNOWN NOT TO CAUSE EXCESSIVE SHRINKAGE. MAXIMUM AGGREGATE SIZE TO BE 1)2".
F. MAXIMUM SLUMP: 3" (FOUNDATION, FOOTING, SLAB), 4" (WALL, COLUMN, BEAM)
2. FORMWORK FOR CONCRETE SHALL CONFORM TO ACI 347. TOLERANCES FOR FINISHED CONCRETE SURFACES SHALL MEET CLASS-C REQUIREMENTS. IN NO CASE SHALL FINISHED CONCRETE SURFACES EXCEED THE FOLLOWING VALUES AS MEASURED FROM NEAT PLAN LINES AND FINISHED GRADES: $\pm 1/4"$ VERTICAL, $\pm 1"$ HORIZONTAL.
3. CHAMFER ALL EXPOSED CORNERS AND FILLET ENTRANT ANGLES $3/4"$ U.N.O.
4. CONCRETE FINISHING:
A. FLOORS: CONCRETE FLOOR SLABS SHALL BE FINISHED IN ACCORDANCE WITH ACI 302.1 CHAPTER 8. PROVIDE CLASS 4 FINISH U.N.O. PROVIDE NON-SLIP FINISH FOR EXTERIOR SURFACES.
B. OTHER SURFACES: CONCRETE SURFACES SHALL BE FINISHED IN ACCORDANCE WITH ACI 301 SECTIONS 5.3, 6.3, AND 7.3. PROVIDE ROUGH FINISH FOR ALL SURFACES NOT EXPOSED TO VIEW AND SMOOTH FINISH FOR ALL OTHERS, U.N.O.
5. A MINIMUM OF ONE (1) SET OF CONCRETE CYLINDERS SHALL BE TAKEN PER TRUCK (IF REQUIRED BY SPECIAL INSPECTIONS). EACH SET SHALL CONSIST OF THREE (3) CYLINDERS. ONE (1) SHALL BE TESTED AT 7 DAYS, TWO (2) SHALL BE TESTED AT 28 DAYS. ALL CYLINDERS SHALL BE TAKEN, PREPARED AND TESTED BY A TESTING LAB IN ACCORDANCE WITH ASTM C172, C31 AND C39.

REINFORCING STEEL NOTES:

1. ALL REINFORCING STEEL SHALL CONFORM TO ASTM A615. VERTICAL/HORIZONTAL BARS SHALL BE GRADE 60; TIES OR STIRRUPS SHALL BE A MINIMUM OF GRADE 40. ALL REINFORCING STEEL SHALL HAVE 3" ($\pm 3/8"$) OF CONCRETE COVER, U.N.O.
2. ALL BAR BENDS, HOOKS, SPLICES AND OTHER REINFORCING STEEL SHALL CONFORM TO THE REQUIREMENTS OF ACI 315.
3. ALL BARS SHALL BE SPLICED WITH A MINIMUM LAP OF 48 BAR DIAMETERS. LAP SPLICES OF DEFORMED BARS IN TENSION ZONES SHALL BE CLASS-B SPLICES. WELDING OF BARS IS NOT PERMITTED.
4. AT ALL CORNERS AND WALL INTERSECTIONS, PROVIDE BENT HORIZONTAL BARS TO MATCH THE HORIZONTAL REINFORCING STEEL.
5. PROVIDE VERTICAL DOWELS IN FOOTINGS AND AT CONSTRUCTION JOINTS TO MATCH VERTICAL REINFORCING BAR SIZE AND SPACING.
6. ACI-APPROVED PLASTIC-COATED BAR CHAIRS OR PRECAST CONCRETE BLOCKS SHALL BE PROVIDED FOR SUPPORT OF ALL GRADE-CAST REINFORCING STEEL & SHALL BE SUFFICIENT IN NUMBER TO PREVENT SAGGING. METAL CLIPS OR SUPPORTS SHALL NOT BE PLACED IN CONTACT WITH THE FORMS OR THE SUB-GRADE.
7. DOWELS AND ANCHOR BOLTS SHALL BE WIRED OR OTHERWISE HELD IN CORRECT POSITION PRIOR TO PLACING CONCRETE. IN NO CASE SHALL DOWELS OR ANCHOR BOLTS BE "STABBED" INTO FRESHLY-POURED CONCRETE.



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PE RENEWAL DATE DECEMBER 31, 2017

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LSC MCNUTT

LOCATION CODE:

300209

SITE ADDRESS:

100 AIRPORT ROAD
SANTA TERESA, NM 88008

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REVIEW REV B	10/18/2016
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CONSTRUCTION REV 0	07/20/2017
CONSTRUCTION REV 1	09/11/2017

REVISION			
NO	DESCRIPTION	BY	DATE

SHEET TITLE:

SPECIFICATION SHEET

SHEET NUMBER:

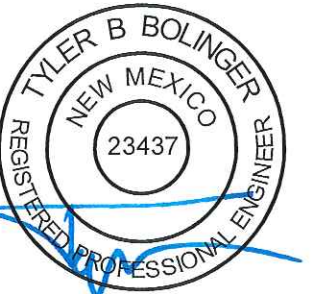
SP1



1 VIEW OF LEASE AREA
(LOOKING NORTHWEST)
SCALE: N.T.S.



2 SITE ENTRANCE ROAD
(LOOKING NORTH)
SCALE: N.T.S.



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PHOTO SHEET

SHEET NUMBER:

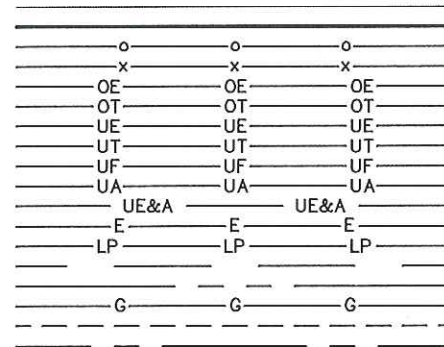
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ABBREVIATION	DEFINITION
AAV	ACCELERATED ACCESS VENDOR
AB	ANCHOR BOLT
ABV	ABOVE
ACCA	ANTENNA CABLE COVER ASSEMBLY
ADD'L	ADDITIONAL
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AGL	ABOVE GRADE LEVEL
ALT	ALTERNATE
ALUM	ALUMINUM
AMSL	ABOVE MEAN SEA LEVEL
ANT	ANTENNA
~	APPROXIMATE
APPROX	APPROXIMATE
ARCH	ARCHITECT(URAL)
AWG	AMERICAN WIRE GAUGE
B/U	BACK-UP CABINET
BBS	BATTERY BACK UP STATION
BLK	BLOCK
BLDG	BUILDING
BLKG	BLOCKING
BTCW	BARE TINNED COPPER WIRE
BTS	BASE TRANSMISSION STATION
BM	BEAM
BOF	BOTTOM OF FOOTING
BN	BOUNDARY NAILING
¢	CENTERLINE
CAB	CABINET
CANT	CANTILEVER(ED)
CIP	CAST IN PLACE
CLG	CEILING
CLR	CLEAR
CND	CONDUIT
COL	COLUMN
CONC	CONCRETE
CONN	CONNECTION(OR)
CONT	CONTINUOUS
d	PENNY (NAILS)
DEPT	DEPARTMENT
ø	DIAMETER
DIA	DIAMETER
DIAG	DIAGONAL
DIM	DIMENSION
DBL	DOUBLE
DF	DOUGLAS FIR
DWG	DRAWING(S)
(E)	EXISTING
EA	EACH
EGB	EQUIPMENT GROUND BAR
ELEC	ELECTRICAL
ELEV (EL)	ELEVATION
EN	EDGE NAIL
ENGR	ENGINEER
EMT	ELECTRICAL METALLIC TUBING
EQ	EQUAL
EQUIP	EQUIPMENT
EXP	EXPANSION
EXT	EXTERIOR
F	FIBER
FAB	FABRICATION(OR)
FF	FINISH FLOOR
FG	FINISH GRADE
FN	FIBERNET
FOC	FACE OF CONCRETE
FOM	FACE OF MASONRY
FOS	FACE OF STUD
FOW	FACE OF WALL
FS	FINISH SURFACE
FIN	FINISH(ED)
FLR	FLOOR
FT (')	FOOT(FEET)
FTG	FOOTING
FND	FOUNDATION
G	GROWTH (CABINET)
GA	GAUGE
GALV	GALVANIZED
GC	GENERAL CONTRACTOR
GLB (GLU-LAM)	GLUE LAMINATED BEAM
GND	GROUND
GFI	GROUND FAULT CIRCUIT INTERRUPTER
GPS	GLOBAL POSITIONING SYSTEM
HGR	HANGER
HDR	HEADER
HT	HEIGHT
ICGB	ISOLATED COPPER GROUND BUS
IN (")	INCH(ES)
INT	INTERIOR
L	LONG(ITUDINAL)
LB	LAG BOLTS
LB(S) or #	POUND(S)
LF	LINEAR FEET (FOOT)
LTE	LONG TERM EVOLUTION
MAS	MASONRY

ABBREVIATION	DEFINITION
MAX	MAXIMUM
MB	MACHINE BOLT
MECH	MECHANICAL
MFR	MANUFACTURER
MGB	MASTER GROUND BAR
MIN	MINIMUM
MISC	MISCELLANEOUS
MTL	METAL
(N)	NEW
NO (#)	NUMBER
NTS	NOT TO SCALE
OC	ON CENTER
OE/OT	OVERHEAD ELECTRIC/TELCO
OPNG	OPENING
φ	PHASE (ELECTRICAL)
(P)	PROPOSED
PL	PLATE OR PROPERTY LINE
P/C	PRECAST CONCRETE
PCS	PERSONAL COMMUNICATION SERVICES
PLY	PLYWOOD
PPC	POWER PROTECTION CABINET
PRC	PRIMARY RADIO CABINET
PSI	POUNDS PER SQUARE INCH
PSF	POUNDS PER SQUARE FOOT
PT	PRESSURE TREATED
PWR	POWER (CABINET)
QTY	QUANTITY
RAD (R)	RADIUS
RBS	RADIO BASED STATION
REF	REFERENCE
REQ'D	REQUIRED
REINF	REINFORCEMENT(ING)
RGS	RIGID GALVANIZED STEEL
RRH	REMOTE RADIO HEAD
RRU	REMOTE RADIO UNIT
SCH	SCHEDULE
SF	SQUARE FOOT
SHT	SHEET
SIM	SIMILAR
SPEC	SPECIFICATION(S)
SQ	SQUARE
SS	STAINLESS STEEL
STD	STANDARD
STL	STEEL
STRUC	STRUCTURAL
TC	TOWERCLOUD
TEMP	TEMPORARY
THK	THICK(NESS)
TMA	TOWER MOUNTED AMPLIFIER
TN	TOE NAIL
TOA	TOP OF ANTENNA
TOC	TOP OF CURB
TOF	TOP OF FOUNDATION
TOP	TOP OF PLATE (PARAPET)
TOS	TOP OF STEEL
TOW	TOP OF WALL
XFMR	TRANSFORMER
TYP	TYPICAL
UE/UT	UNDERGROUND ELECTRIC/TELCO
UG	UNDERGROUND
UL	UNDERWRITERS LABORATORY
UNO	UNLESS NOTED OTHERWISE
VIF	VERIFY IN FIELD
W	WIDE(WIDTH)
W/	WITH
WD	WOOD
WP	WEATHERPROOF
WT	WEIGHT

LINE TYPES

EXISTING LAYER
PROPOSED LAYER
CHAIN-LINK FENCE
BARBED-WIRE FENCE
OVERHEAD POWER
OVERHEAD TELCO
UNDERGROUND POWER
UNDERGROUND TELCO
UNDERGROUND FIBER
UNDERGROUND ALARM
UNDERGROUND POWER & ALARM
INTERIOR ELECTRICAL CONDUIT
UNDERGROUND LP FUEL
COAX CABLE
HYBRID CABLE
INTERIOR GROUND LINE
EXTERIOR GROUND LINE
PROPERTY LEASE LINE



GROUNDING SYMBOLS

IRREVERSIBLE CONNECTION



EXOTHERMIC



MECHANICAL CONNECTION



COPPER GROUND ROD



CHEM ROD



GROUND ROD TEST-WELL



12"/20" GROUND BAR



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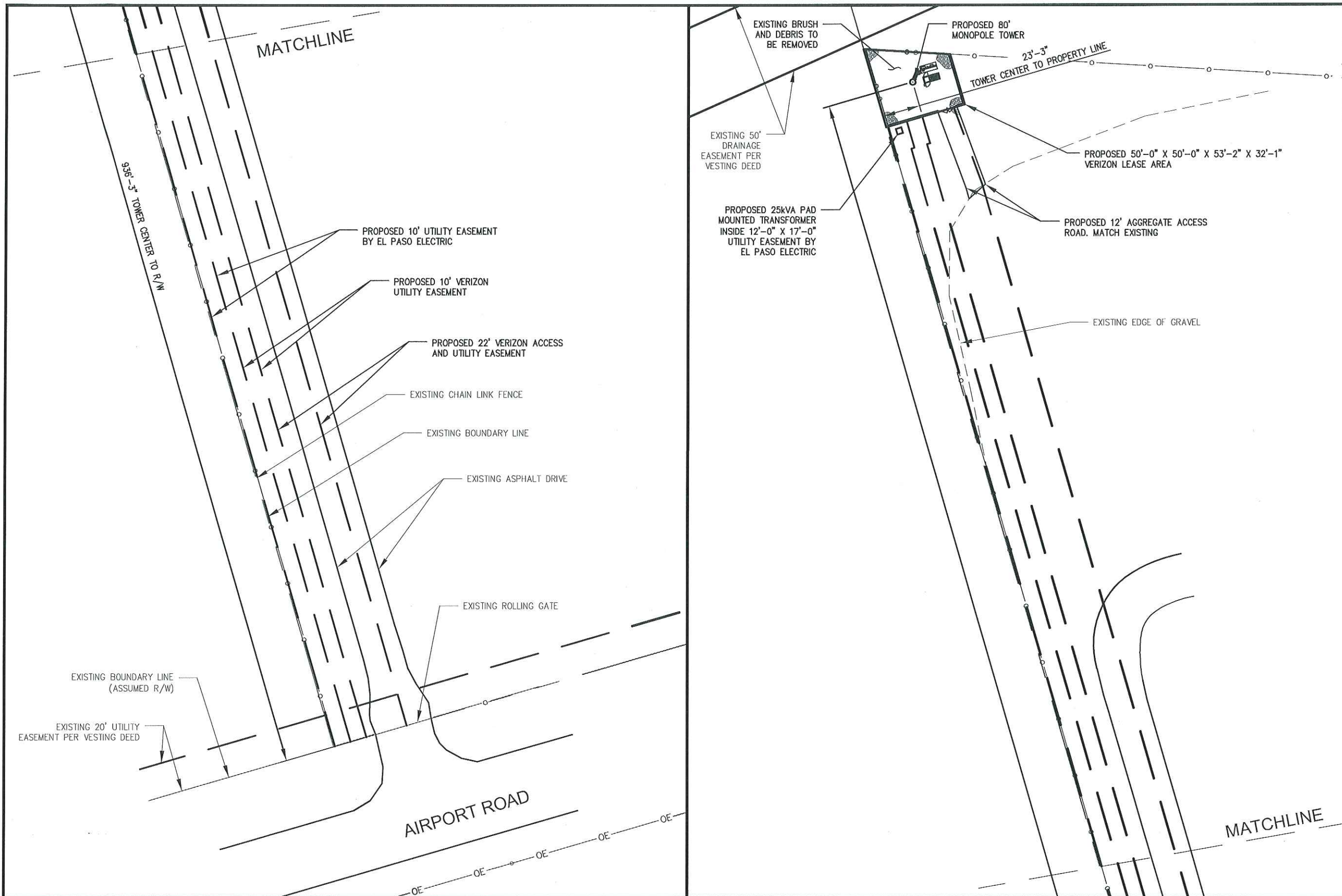
ISSUED FOR:	DATE
REVIEW REV B	10/18/2016
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CONSTRUCTION REV 0	07/20/2017
CONSTRUCTION REV 1	09/11/2017

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NO	DESCRIPTION	BY	DATE

SHEET TITLE:
ABBREVIATIONS AND SYMBOLS

SHEET NUMBER:

GN1



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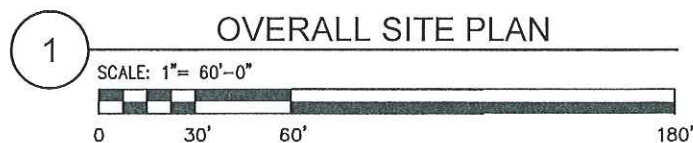
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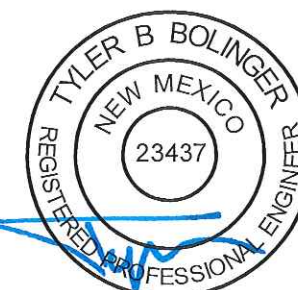
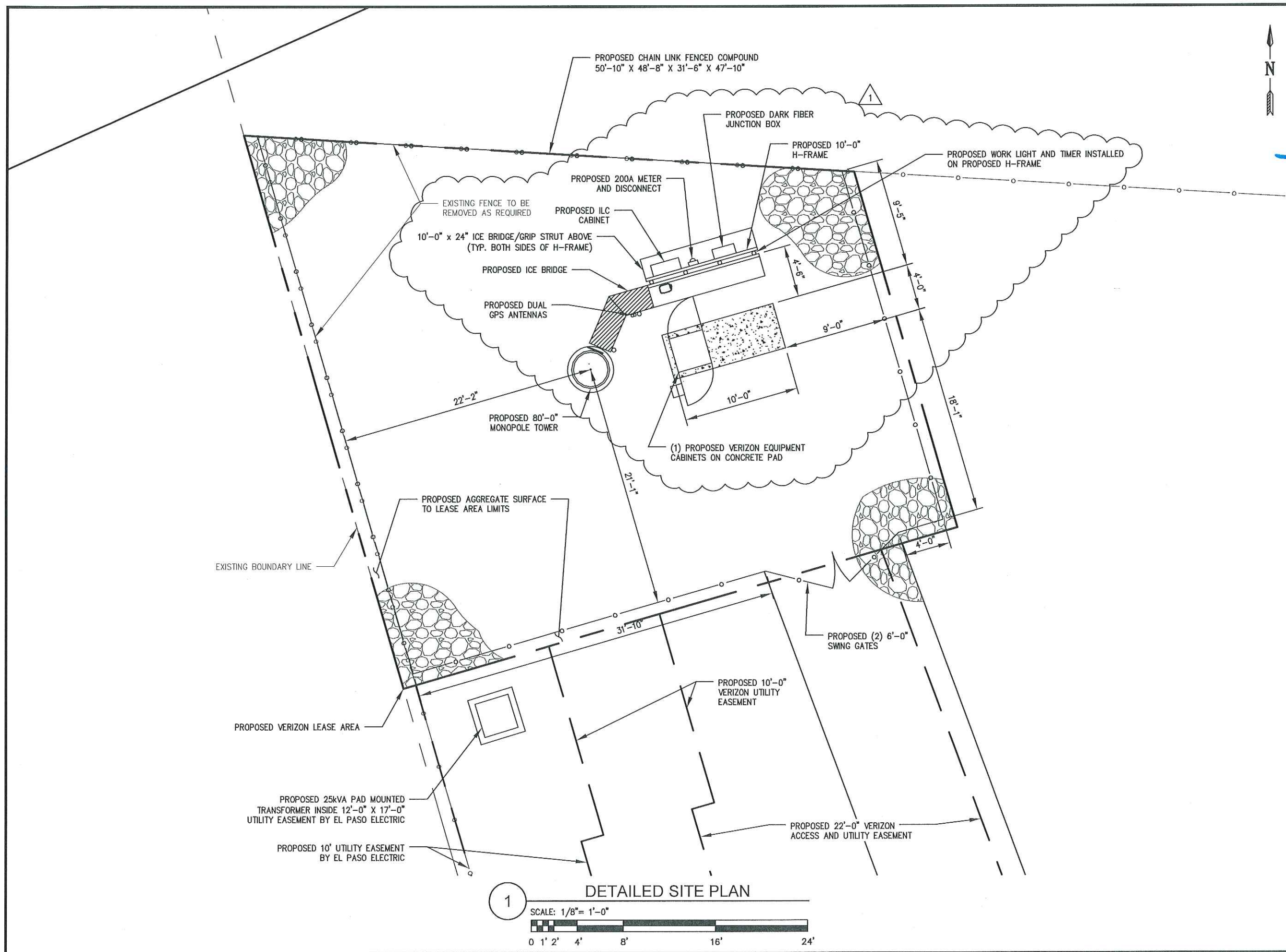
SHEET TITLE:
OVERALL SITE PLAN

SHEET NUMBER:
C1



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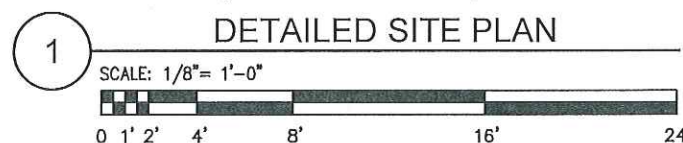
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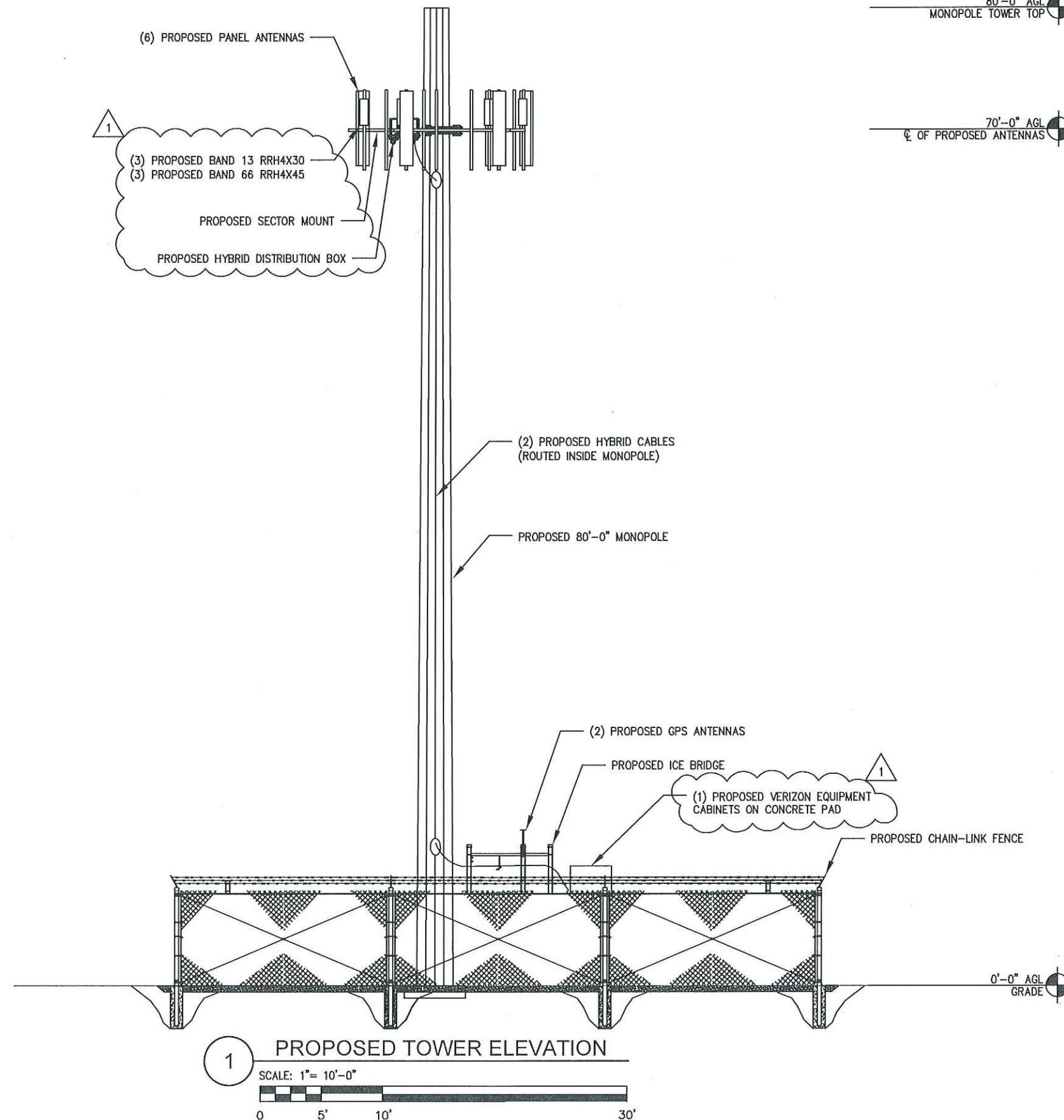
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REVISION			
NO	DESCRIPTION	BY	DATE
1	RELOCATE EQUIPMENT	IP	09/06/2017

SHEET TITLE:
DETAILED SITE PLAN

SHEET NUMBER:
C2





80'-0" AGL
MONOPOLE TOWER TOP

70'-0" AGL
CL OF PROPOSED ANTENNAS



09/11/2017

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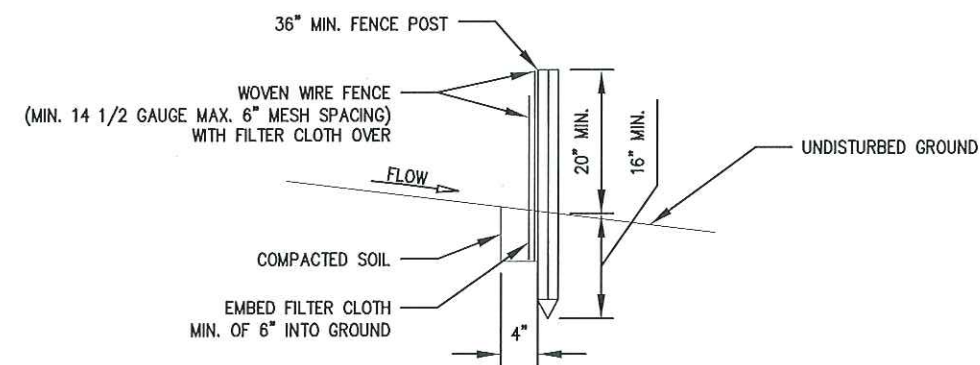
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CONSTRUCTION REV 1 09/11/2017

REVISION			
NO	DESCRIPTION	BY	DATE
1	REVISED CABS/ANTENNA	IP	09/06/2017

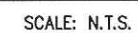
SHEET TITLE:
TOWER ELEVATION

SHEET NUMBER:
C4

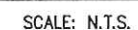


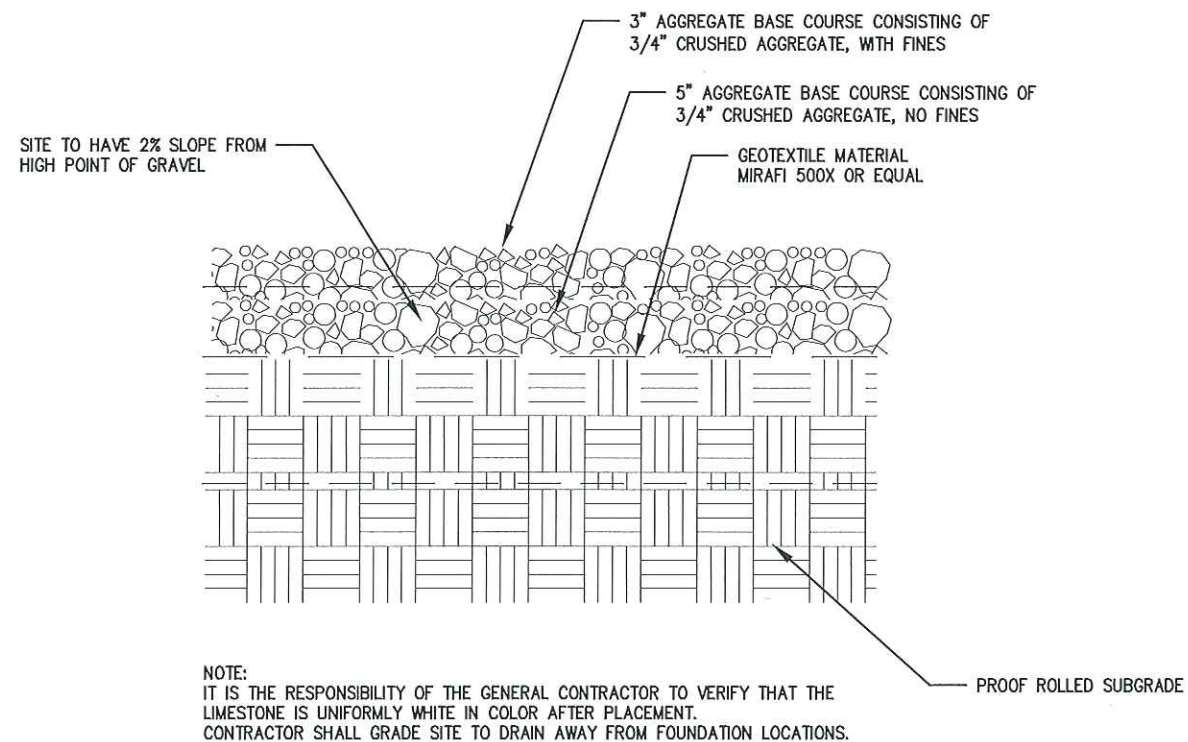
1. WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES.
2. FILTER CLOTH TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 24" AT TOP AND MID SECTION.
3. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVERLAPPED BY 6" AND FOLDED.
4. MAINTENANCE SHALL BE PERFORMED AS NEED AND MATERIAL REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE.

SCALE: N.T.S.

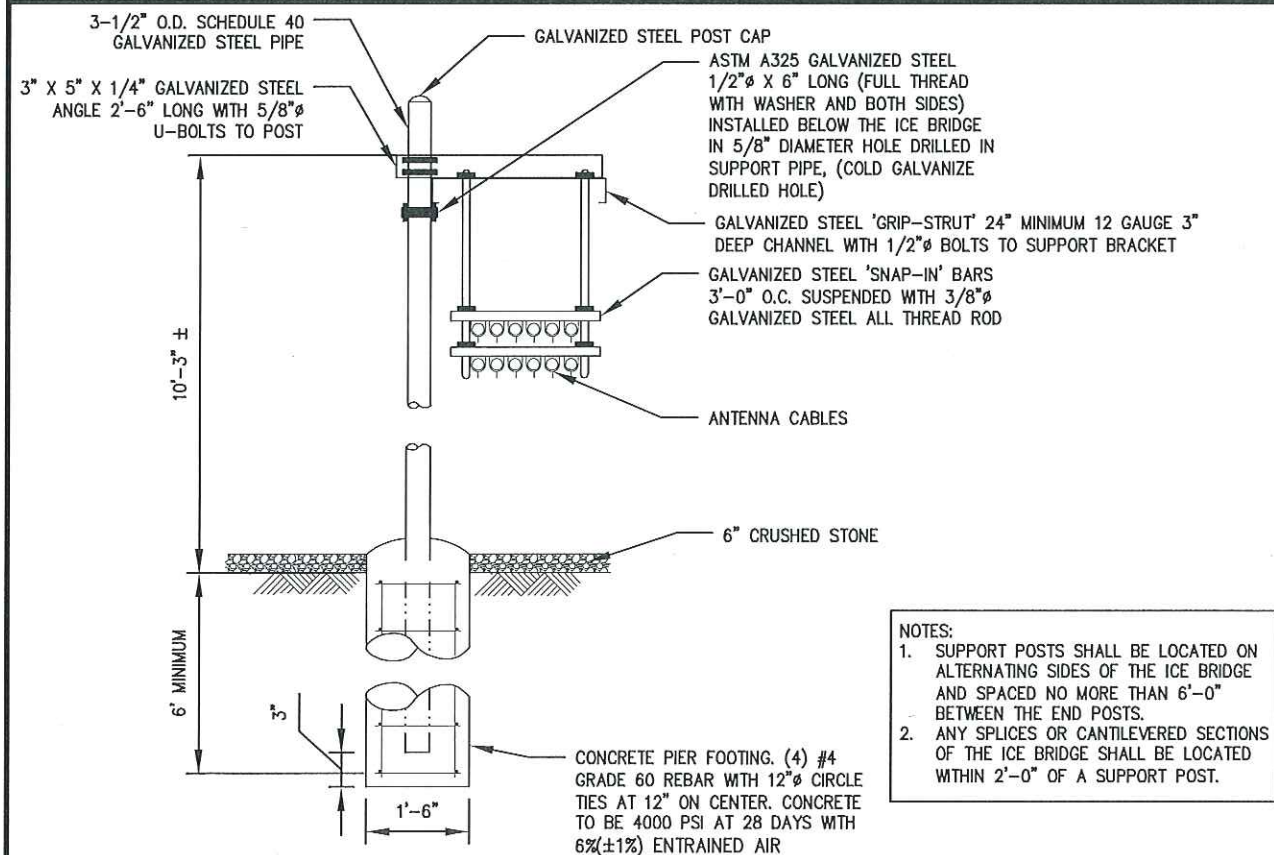


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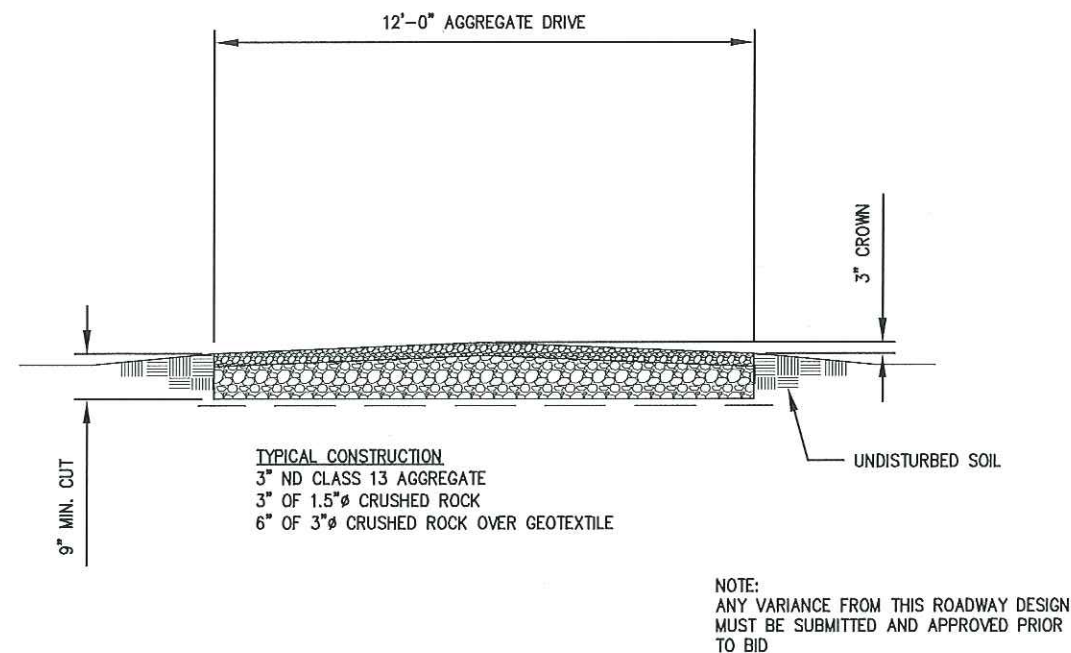




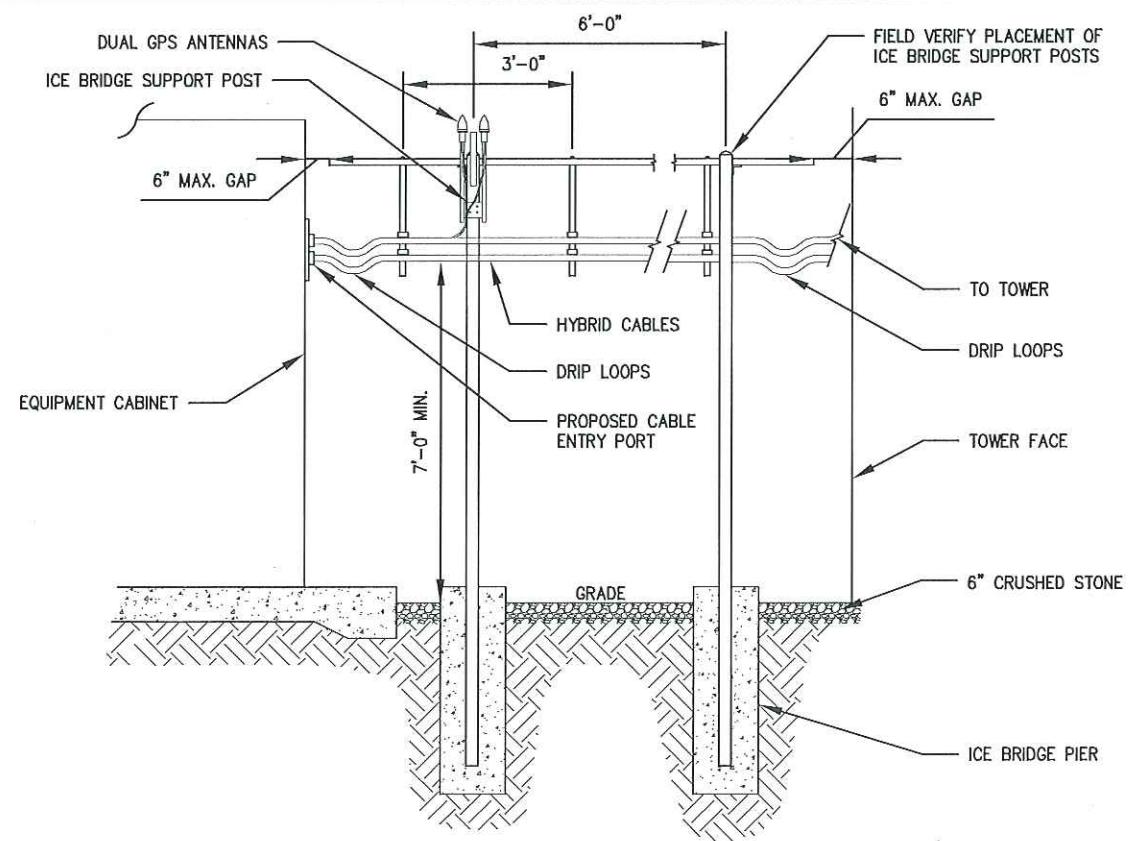
1 COMPOUND SURFACING
SCALE: N.T.S.



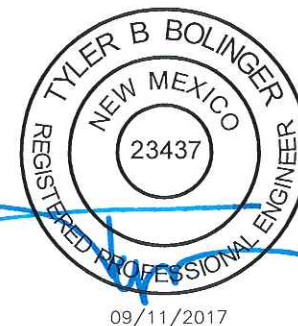
3 TYP. ICE BRIDGE SECTION
SCALE: N.T.S.



2 ACCESS DRIVE SECTION
SCALE: N.T.S.



4 TYP. ICE BRIDGE ELEVATION
SCALE: N.T.S.



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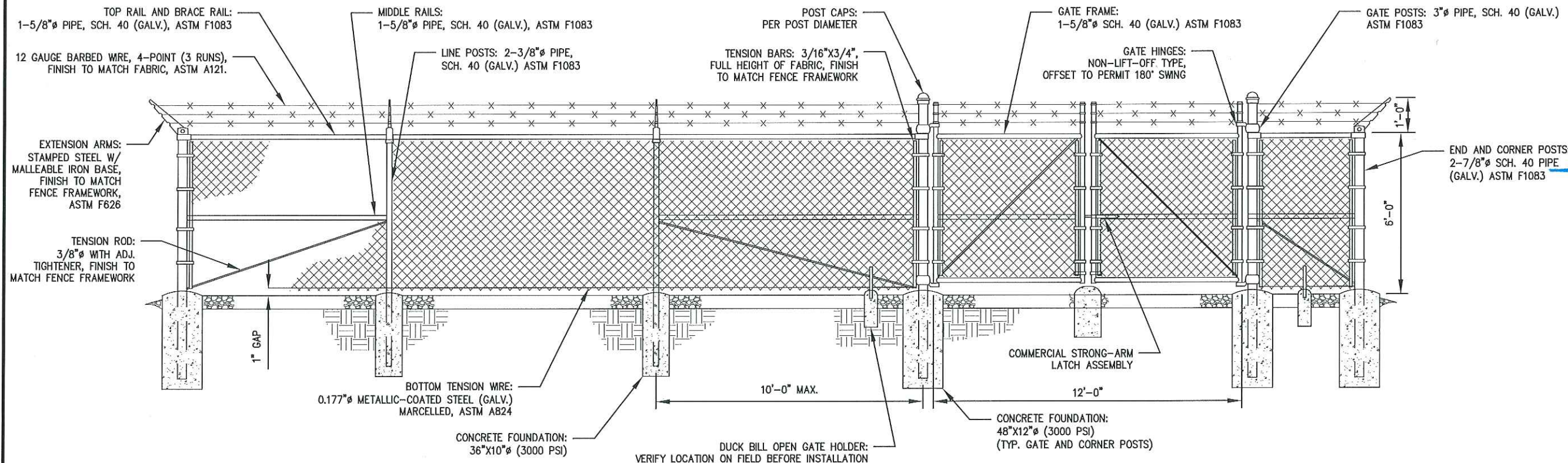
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REVIEW REV C	04/03/2017
CONSTRUCTION REV 0	07/20/2017
CONSTRUCTION REV 1	09/11/2017

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NO	DESCRIPTION	BY	DATE
1	REVISED DETAILS	IP	09/06/2017

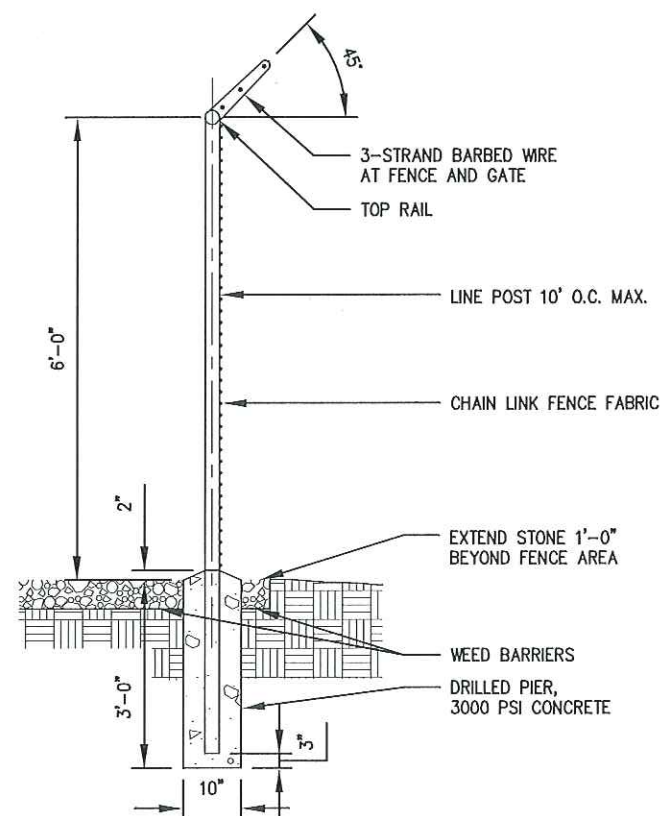
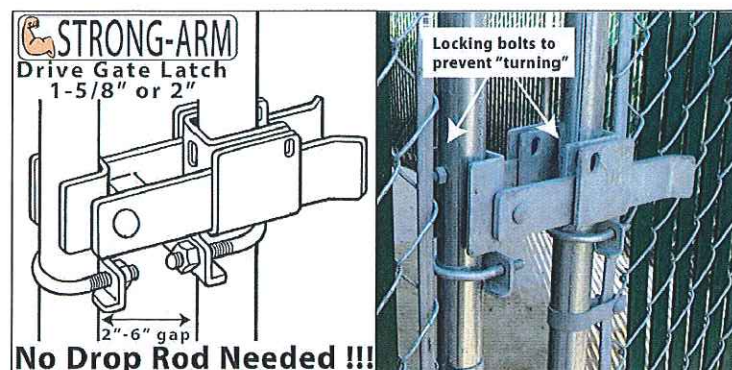
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CIVIL DETAILS

SHEET NUMBER:
C6

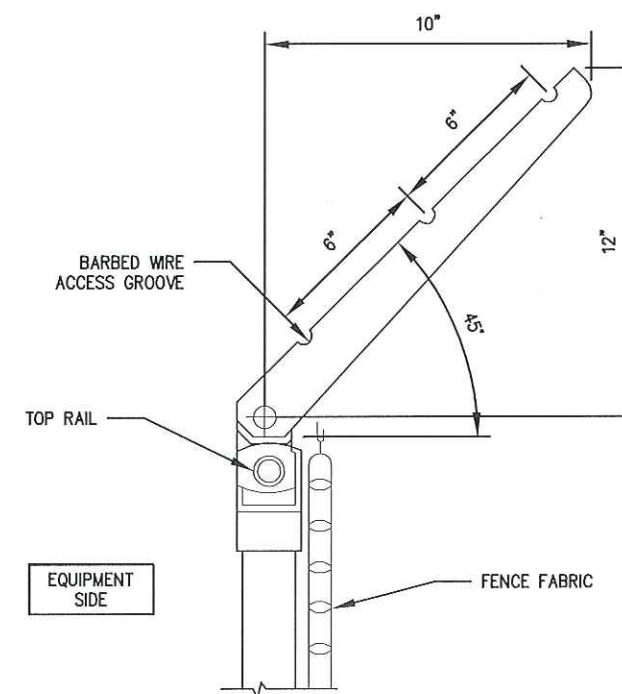


1 TYP. FENCE ELEVATION
SCALE: N.T.S.

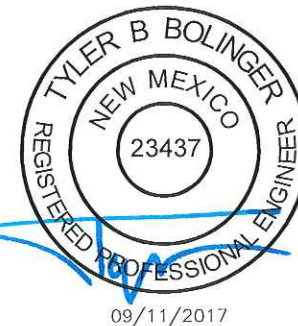
- NOTES:
1. REFER TO PROJECT SPECIFICATIONS FOR INFORMATION NOT SHOWN IN THE DRAWING.
 2. FENCE FABRIC SHALL CONFORM TO CHAIN LINK FENCE MANUFACTURERS INSTITUTE (CLFMI) PRODUCT MANUAL.
 3. INSTALL FENCE IN COMPLIANCE WITH ASTM F 567.
 4. INSTALL SWING GATES IN COMPLIANCE WITH ASTM F 900.
 5. DO NOT BEGIN INSTALLATION AND ERECTION BEFORE FINAL GRADING IS COMPLETED, UNLESS OTHERWISE PERMITTED. INSTALL FENCING ON BOUNDARY LINES INSIDE OF PROPERTY LINE ESTABLISHED BY SURVEY.
 6. DRILL OR HAND-EXCAVATE (USING POST-HOLE DIGGER) HOLES FOR POST TO DIAMETERS AND SPACINGS INDICATED, IN FIRM, UNDISTURBED OR COMPACTED SOIL. IF NOT INDICATED ON DRAWINGS, EXCAVATE HOLES FOR EACH POST TO MINIMUM DIAMETER RECOMMENDED BY FENCE MANUFACTURER, BUT NOT LESS THAN (4) TIMES LARGEST CROSS-SECTION OF POST.
 7. REMOVE POST HOLE SPOILS FROM SITE. DO NOT SET SPOILS ON AGGREGATE WITHOUT ADEQUATE PROTECTION.
 8. PROTECT PORTION OF POST ABOVE GROUND FROM CONCRETE SPLATTER. PLACE CONCRETE AROUND POSTS AND VIBRATE OR TAMP FOR CONSOLIDATION. CHECK EACH POST FOR VERTICAL AND TOP ALIGNMENT AND HOLD IN POSITION DURING PLACEMENT AND FINISHING OPERATIONS, UNLESS OTHERWISE SHOWN, EXTEND CONCRETE FOOTING 1 INCH ABOVE GRADE AND TROWEL TO A CROWN TO SHED WATER.
 9. INSTALL BARBED WIRE IN ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS.
 10. APPLY FABRIC TO OUTSIDE OF FRAMEWORK.



2 TYP. FENCE SECTION
SCALE: N.T.S.



3 TYP. BARBED WIRE DETAIL
SCALE: N.T.S.



PE RENEWAL DATE DECEMBER 31, 2017

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SITE NAME:
LSC MCNUTT
LOCATION CODE:
300209
SITE ADDRESS:
100 AIRPORT ROAD
SANTA TERESA, NM 88008

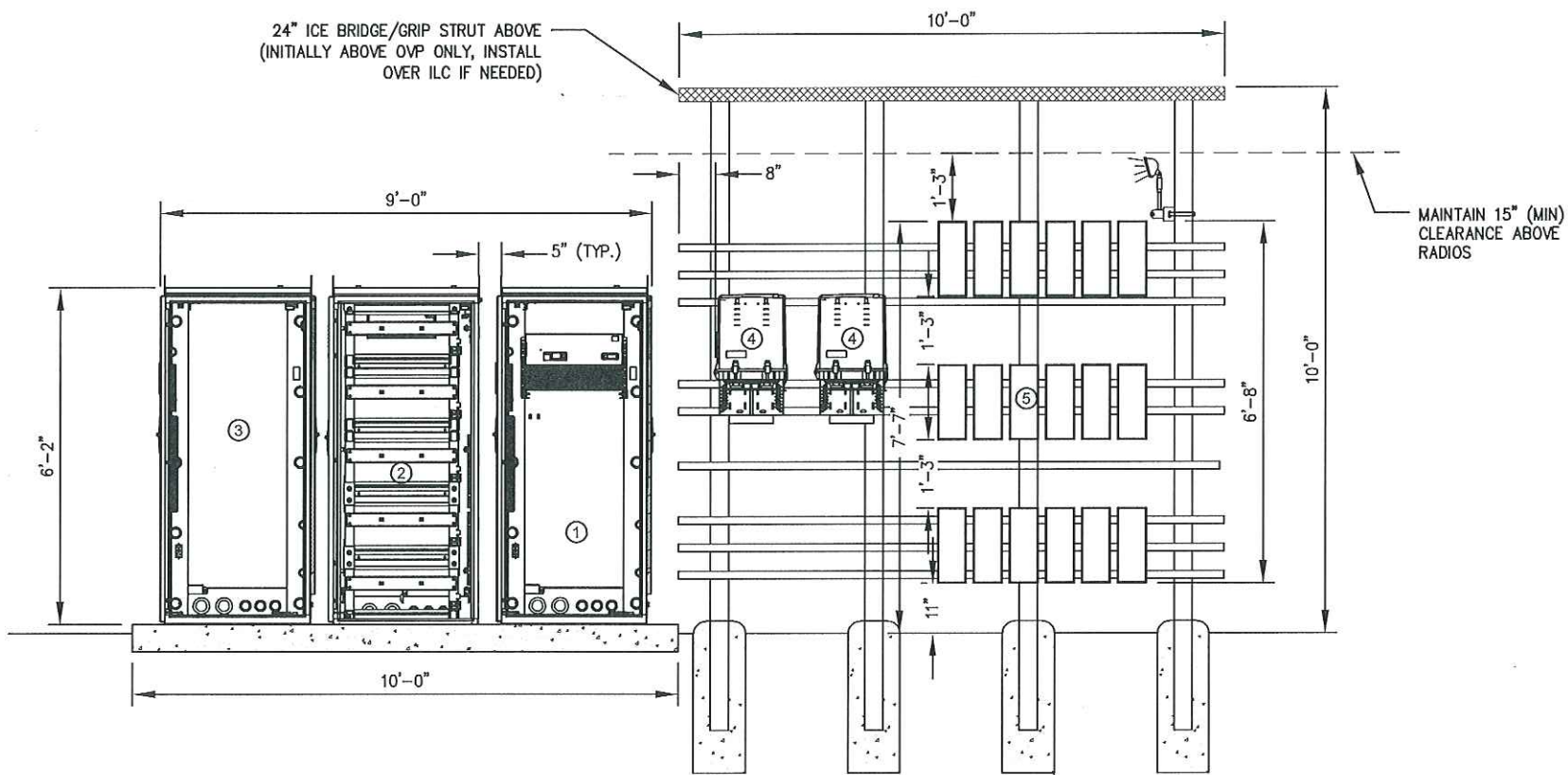
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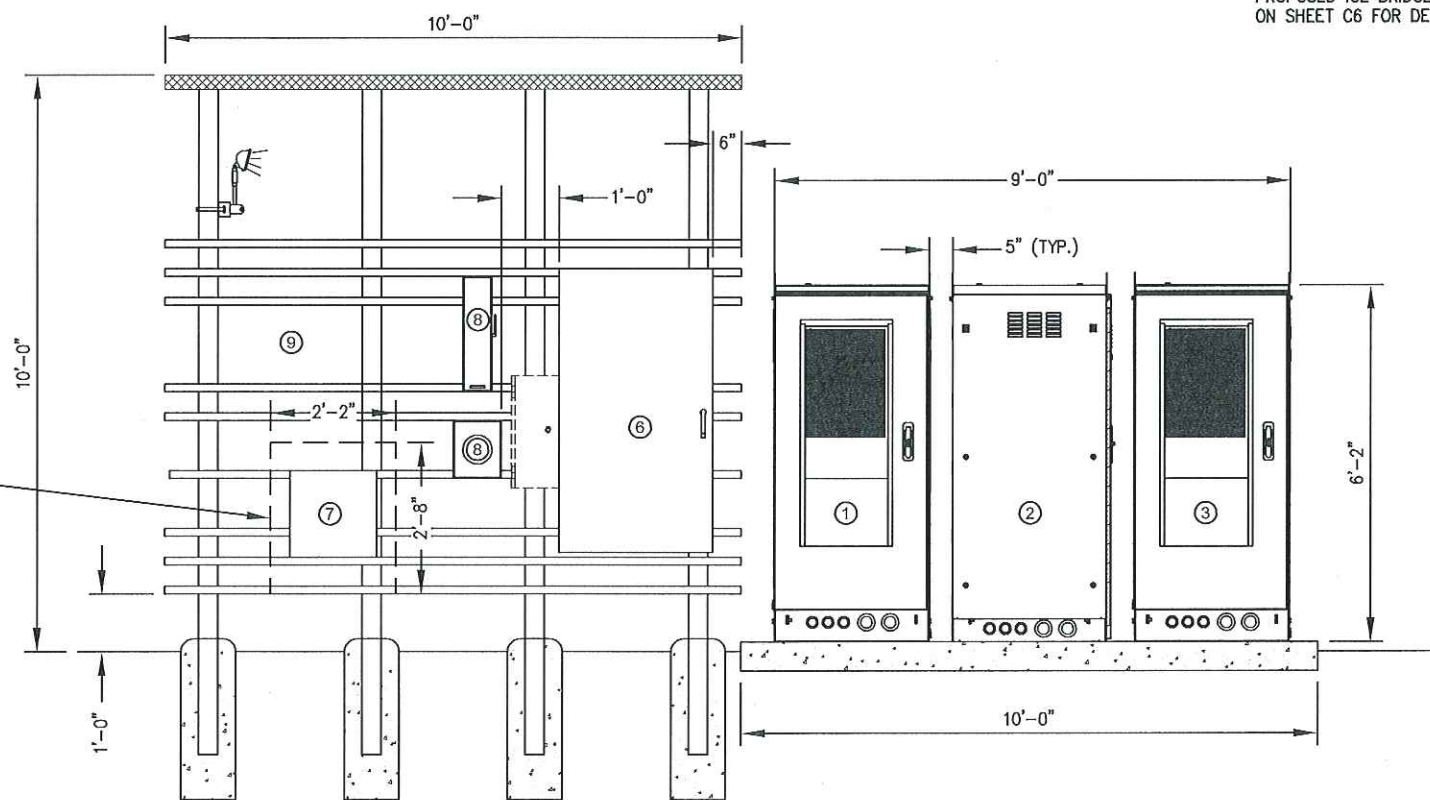
REVISION			
NO	DESCRIPTION	BY	DATE
1	REVISED SHEET	IP	09/11/2017

SHEET TITLE:
CIVIL DETAILS

SHEET NUMBER:
C7



ELEVATION VIEW - FRONT



ELEVATION VIEW - REAR

LEGEND

- ① PRIMARY CABINET
- ② BATTERY CABINET
- ③ GROWTH CABINET
- ④ OVP-12 (PROPOSED AND FUTURE AS NEEDED)
- ⑤ ERICSSON RRH 2212 (STACKED 6X3) (RESERVE SPACE FOR FUTURE GROUND RADIOS)
- ⑥ ILC CABINET (CAMLOCK IF NEEDED)
- ⑦ DARK FIBER JUNCTION BOX (RESERVE SPACE FOR CHARLES TELCO CABINET IF NECESSARY)
- ⑧ METER & DISCONNECT
- ⑨ RESERVED DIPLEXER AREA

RESERVE SPACE FOR CHARLES
TELCO CABINET IF NECESSARY

1

CABINET/H-FRAME ELEVATIONS

SCALE: N.T.S.



09/11/2017

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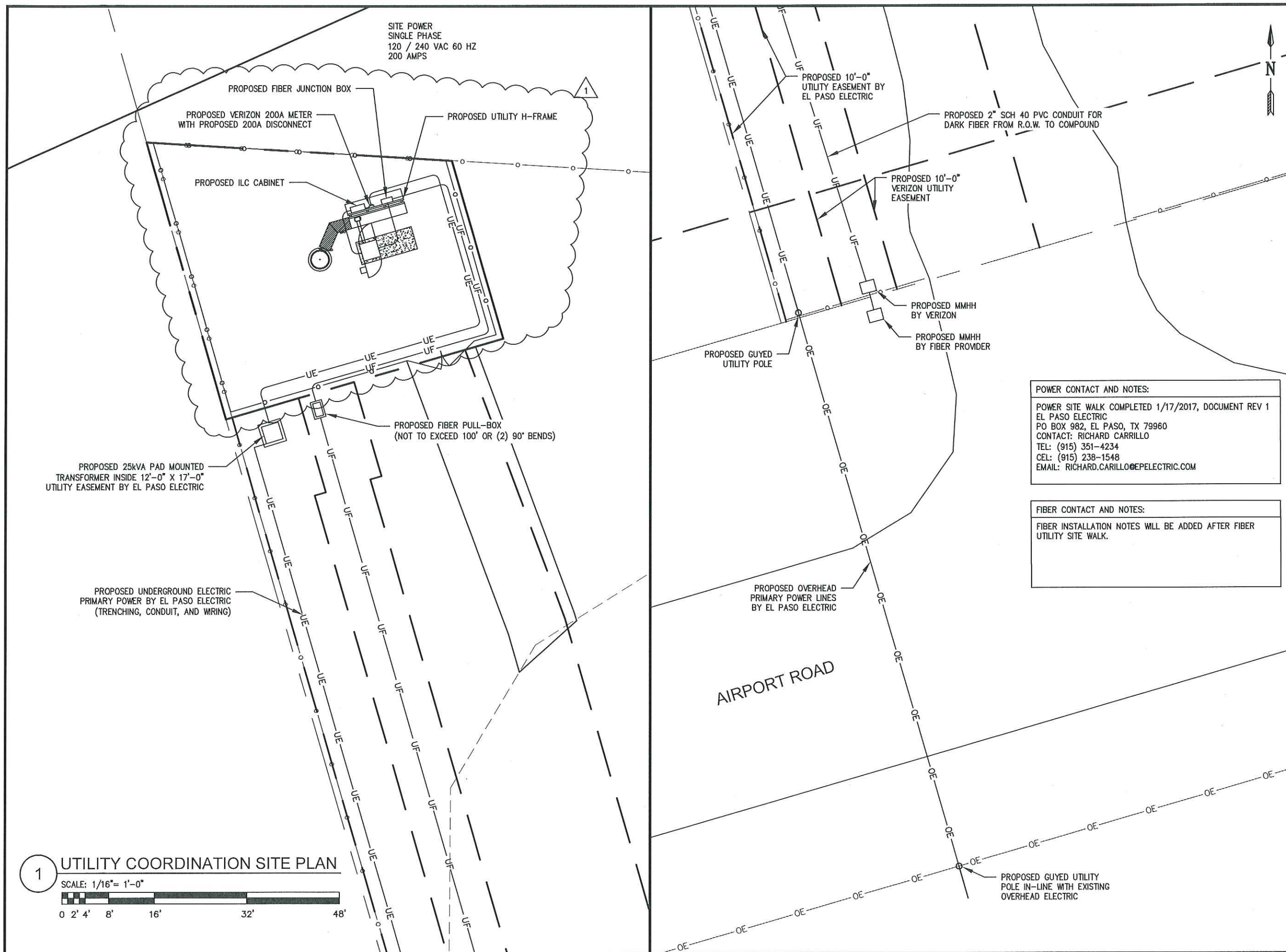
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SHEET TITLE:
CIVIL DETAILS

SHEET NUMBER:
C8



09/11/2017

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REVISION			
NO	DESCRIPTION	BY	DATE
1	RELOCATE EQUIPMENT	IP	09/06/2017

SHEET TITLE:
UTILITY COORDINATION SITE PLAN

SHEET NUMBER:
UC1

GENERAL GROUNDING NOTES:

1. CONTRACTOR SHALL COMPLY WITH UTILITIES ELECTRICAL SERVICE SPECIFICATIONS. OBTAIN A COPY AS NEEDED.
2. THE ELECTRICAL INSTALLATION WORK SHALL COMPLY WITH ALL LOCAL, STATE AND NATIONAL CODES, LAWS AND ORDINANCES APPLICABLE TO ELECTRICAL WORK.
3. ARC FLASH HAZARD WARNING SIGNS
PER NEC ARTICLE 110.16, EACH OF THE FOLLOWING DEVICES SHALL HAVE A PERMANENT LABEL OR SIGN AFFIXED WARNING QUALIFIED PERSONS OF POTENTIAL ARC FLASH HAZARDS: SERVICE CUTTER-BOXES, METER ENCLOSURES, DISCONNECTS, TRANSFORMERS, DOWN-STREAM OR SERVICE EQUIPMENT, TRANSFER SWITCHES, DISTRIBUTION PANEL BOARDS, ANY OTHER DEVICES THAT ARE INSTALLED AND ARE SPECIFIED IN NEC ARTICLE 110.16. THIS LABEL OR SIGN SHALL MEET THE GUIDELINES FOR SAFETY SIGNS SPECIFIED IN THE CURRENT REVISION OF ANSI Z535.4
4. CONTRACTOR SHALL VISIT SITE AND VERIFY EXISTING CONDITIONS BEFORE BEGINNING WORK.
5. ALL MATERIAL AND EQUIPMENT FURNISHED AND INSTALLED UNDER THIS CONTRACT SHALL BE NEW, FREE FROM DEFECTS, AND SHALL BE GUARANTEED FOR A PERIOD OF ONE YEAR FROM THE DATE OF FINAL ACCEPTANCE BY OWNER OR HIS REPRESENTATIVE. SHOULD ANY TROUBLE DEVELOP DURING THIS PERIOD DUE TO FAULTY WORKMANSHIP, MATERIAL OR EQUIPMENT, THE CONTRACTOR SHALL FURNISH ALL NECESSARY MATERIALS AND LABOR TO CORRECT THE TROUBLE WITHOUT COST TO THE OWNER.
6. ALL WORK TO BE EXECUTED IN A WORKMANLIKE MANNER AND SHALL PRESENT A NEAT MECHANICAL APPEARANCE WHEN COMPLETED.
7. CONTRACTOR SHALL BE RESPONSIBLE FOR FOR ALL CUTTING AND PATCHING RELATED TO ELECTRICAL WORK.
8. ALL BRANCH CIRCUIT CONDUCTORS SHALL BE COPPER TYPE "TH".
#12, AND #10 SOLID, #8 AND LARGER STRANDED.
9. CONTRACTOR SHALL FURNISH AS-BUILT DRAWINGS TO THE VERIZON WIRELESS PROJECT MANAGER UPON COMPLETION OF THE JOB.
10. ELECTRICAL WORK SHALL INCLUDE ALL LABOR, MATERIALS AND EQUIPMENT REQUIRED, INCLUDING, BUT NOT LIMITED TO, COMPLETE ELECTRICAL SYSTEMS, POWER AND LIGHTING, TELEPHONE CONDUIT SYSTEM, SIGNAL SYSTEMS, PANEL BOARDS, CONTROL WIRING, GROUNDING, CONDUIT ONLY SYSTEMS, ETC., AS INDICATED ON ELECTRICAL DRAWINGS AND/OR REQUIRED BY GOVERNING CODES.
11. PRIOR TO INSTALLING ANY ELECTRICAL WORK, THE CONTRACTOR SHALL VERIFY THE EXACT LOCATIONS AND REQUIREMENTS ON THE JOB, AND BY REFERENCE TO ARCHITECTURE, AND EQUIPMENT SUPPLIERS DRAWINGS. SHOULD THERE BE ANY QUESTIONS OR PROBLEMS CONCERNING THE NECESSARY PROVISIONS TO BE MADE, PROPER DIRECTIONS FROM THE VERIZON WIRELESS PROJECT MANAGER SHALL BE OBTAINED BEFORE PROCEEDING WITH ANY WORK.
12. THE CONTRACTOR SHALL VERIFY EXISTING SITE CONDITIONS, ELECTRICAL SERVICE REQUIREMENTS AND COORDINATE ALL INTERCONNECTION REQUIREMENTS WITH LOCAL UTILITY AS NECESSARY.
13. THE NOTE, SPECIFICATION OR CODE WHICH PRESCRIBES AND ESTABLISHES THE HIGHEST STANDARD OF PERFORMANCE SHALL PREVAIL IN THE EVENT OF ANY CONFLICT OR INCONSISTENCY BETWEEN ITEMS SHOWN ON THE PLANS AND/OR SPECIFICATIONS.
14. THE CONTRACTOR SHALL FURNISH AND PAY FOR ALL PERMITS AND RELATED FEES.
15. THE CONSTRCTOR SHALL BE RESPONSIBLE FOR CONFORMANCE WITH THE NATIONAL ELECTRICAL CODE, STATE OF TEXAS ELECTRICAL SAFETY ORDERS, ALL CODES AND ORDINANCES AND ALL OTHER ADMINISTRATIVE AUTHORITIES HAVING JURID=SDICTION OVER THIS WORK.

GENERAL GROUNDING NOTES:

1. CONTRACTOR TO COMPLY WITH VERIZON WIRELESS CELL SITE GROUNDING & BONDING SPECIFICATIONS. IN THE EVENT THAT DRAWINGS CONFLICT WITH VERIZON WIRELESS SPECIFICATIONS, VERIZON WIRELESS SPECIFICATIONS SHALL GOVERN.
2. ALL DETAILS ARE SHOWN IN GENERAL TERMS, ACTUAL GROUNDING INSTALLATION AND MOUNTING MAY VARY DUE TO SITE SPECIFIC CONDITIONS, XIT GROUND MAY BE REQUIRED.
3. GROUND RODS SHALL BE COPPER CLAD STEEL, 5/8"Ø X 8'-0" LONG.
4. INSTALL GROUND AND BONDING CONDUCTORS WITH SUFFICIENT SLACK TO AVOID BREAKING DUE TO SETTLEMENT AND MOVEMENT OF CONDUCTORS AT ATTACHED POINTS.
5. RESISTANCE TO GROUND SHALL NOT EXCEED 5 OHMS MEASUREMENT. ADDITIONAL GROUND RODS OR XIT GROUND SHALL BE PROVIDED TO ATTAIN THIS VALUE OR LESS. WHERE MULTIPLE RODS ARE INSTALLED, THEY SHALL BE SPACED BETWEEN 8 AND 16 FEET APART.
6. ALL GROUNDING CONDUCTORS SHALL BE U.L. LISTED FOR THEIR PURPOSE.
7. ALL GROUND CONNECTIONS TO GROUND BARS SHALL BE U.L. 467 LISTED, IRREVERSIBLE COMPRESSION TYPE.
8. ALL CONNECTIONS TO GROUND BARS SHALL BE COATED WITH ANTIOXIDANT COMPOUND.
9. PROVIDE ONE-TIME HIT 11b HAMMER TEST ON ALL CADWELDS.
10. ALL EXTERIOR GROUND BARS SHALL BE GALVANIZED STEEL.

1

ELECTRICAL AND
GROUNDING NOTES

SCALE: N.T.S.



PE RENEWAL DATE DECEMBER 31, 2018

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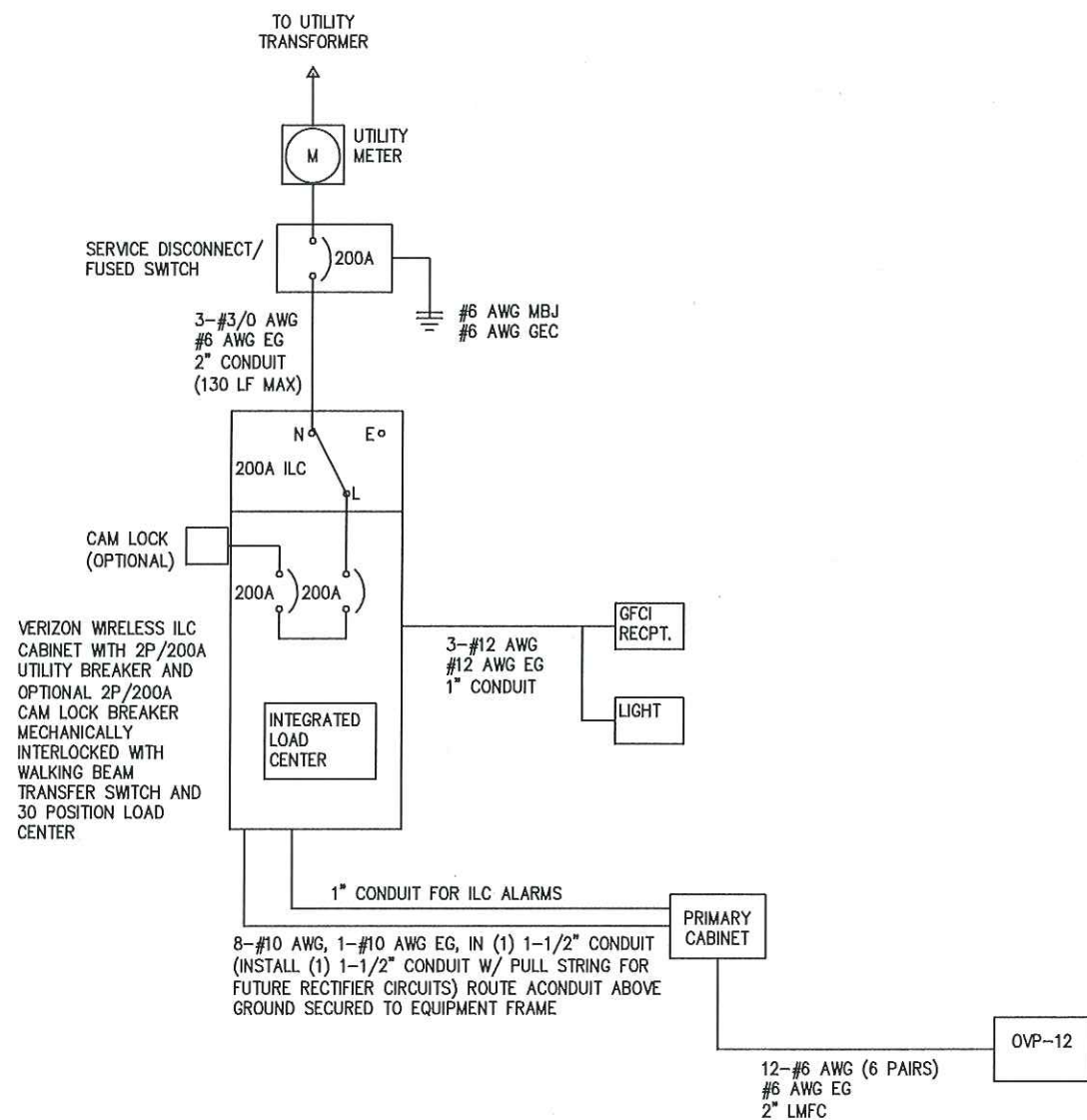
SHEET TITLE:
**ELECTRICAL AND
GROUNDING NOTES**

SHEET NUMBER:

E1

LOAD CALCULATION	
LOAD	AMPS
PROPOSED LOAD:	176.0
TOTAL DEMAND:	176.0
VOLTAGE: 120/240V SINGLE PHASE 3W 200A	

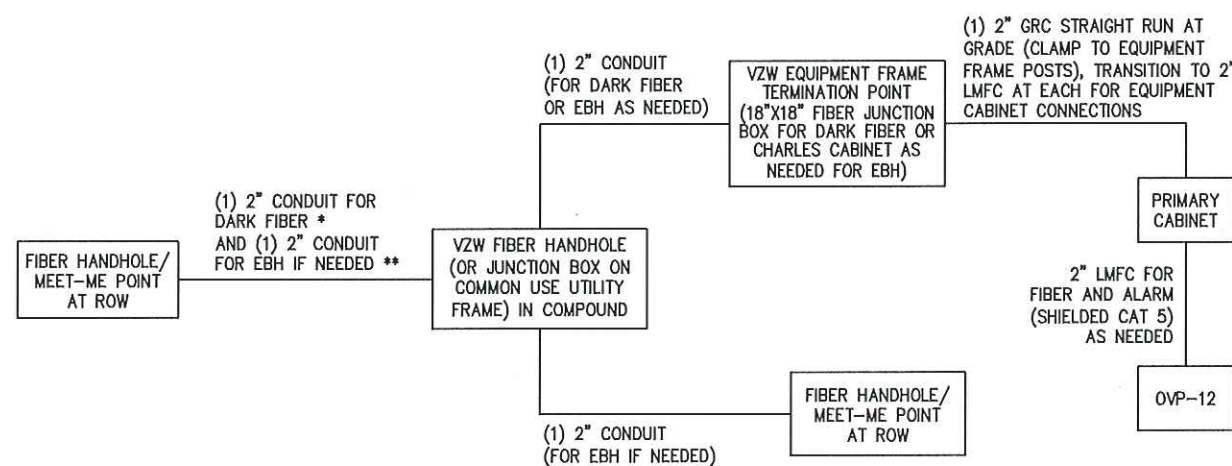
PANEL NAME:		VZW ILC			MODEL NUMBER:		ASCO D300L SERIES												
RATED VOLTAGE:		240	120	VOLTS	PHASE/WIRE:		1	3											
PANEL BREAKER:		200	AMPS		BUS RATING:		200			KEY DOOR LATCH:		YES							
MOUNT:		SURFACE			NEUTRAL BAR:		YES			HENGED DOOR:		YES							
ENCLOSURE TYPE:		NEMA 3R			AIC:		65K												
POS	USAGE FACTOR	BUS AMPS		LOAD	POLES	AMPS	L1	L2	AMPS	POLES	LOAD	BUS AMPS		USAGE FACTOR	POS				
		L1	L2									L1	L2			L1	L2		
1		18		RECTIFIER							FUTURE RECTIFIER	18			2				
3			18												18		4		
5		18		RECTIFIER							FUTURE RECTIFIER	18			6				
7			18												18		8		
9		18		RECTIFIER							FUTURE RECTIFIER	18			10				
11			18												18		12		
13		18		RECTIFIER							FUTURE RECTIFIER	18			14				
15			18												18		16		
17		16		GFI RECEPT./LIGHT											18				
19			16	BLOCK HEATER											20				
21		16		BATT. CHARGER											22				
23															24				
25															26				
27															28				
29															30				
		104	88	:SUB TOTAL AMPS								SUB TOTAL AMPS:		72	72				
														FACTORED TOTAL AMPS:		176	160		
NOTES:																			
1. ALL CONDUCTORS ARE TYPE THWN (75°C) COPPER.																			
2. MAXIMUM LENGTH OF RUN FOR RECTIFIER CIRCUITS IS 50FT.																			
3. ASCO INTEGRATED LOAD CENTER INCLUDES 200 AMP MAIN DISCONNECT AND TRANSFER SWITCH FOR PORTABLE OR PERMANENT GENERATOR.																			
4. RECTIFIER LOADS ARE CONSIDERED TO BE NON-CONTINUOUS.																			



- NOTES:
1. ALL EQUIPMENT SHALL BE NEMA 3R RATED
 2. ALL EQUIPMENT SHALL BE LIGHTNING PROTECTED IN ACCORDANCE WITH TIA-222-G AND VERIZON WIRELESS STANDARDS
 3. CONDUCTOR SIZES AND DISTANCES HAVE BEEN SIZED FOR 3% MAX VOLTAGE DROP (TOTAL SYSTEM VOLTAGE DROP ON BOTH FEEDERS AND BRANCH CIRCUITS TO THE FARTHEST DEMAND SHALL NOT EXCEED 5%)
 4. WIRE SIZING AND MAXIMUM DISTANCE FROM GENERATOR TO ILC ASSUMES POWER FACTOR OF 0.9
 5. BELOW GRADE CONDUIT SHALL BE SCHEDULE 80 PVC. ABOVE GRADE CONDUIT SHALL BE GALVANIZED RIGID CONDUIT. BELOW GRADE PVC CONDUIT SHALL TRANSITION TO GRC PRIOR TO RISING ABOVE GRADE. ALL BENDS SHALL HAVE A MINIMUM 24" RADIUS. ALL FITTINGS SHALL BE SUITABLE FOR USE WITH THREADED RIGID CONDUIT. VERIFY CONDUIT TYPE WITH LOCAL CONSTRUCTION MANAGER AND ADJUST IF NECESSARY. ALL CONDUIT SHALL MEET NEC, STATE, AND LOCAL CODE REQUIREMENTS AS REQUIRED.

1 ONE-LINE DIAGRAM
SCALE: N.T.S.

2 PANEL SCHEDULE
SCALE: N.T.S.



- NOTES:
- * ADD (1) ADDITIONAL 2" CONDUIT FOR DARK FIBER (2 TOTAL) IF REQUIRED BY LOCAL MARKET FACILITIES. VERIFY PRIOR TO CONSTRUCTION (ADD 2 PULL STRINGS TO EACH CONDUIT)
 - ** VERIFY EBH REQUIREMENTS WITH TELCO PROVIDER PRIOR TO CONSTRUCTION (ADD 2 PULL STRINGS TO EACH CONDUIT)

3 FIBER SINGLE LINE DIAGRAM (TYP.)
SCALE: N.T.S.



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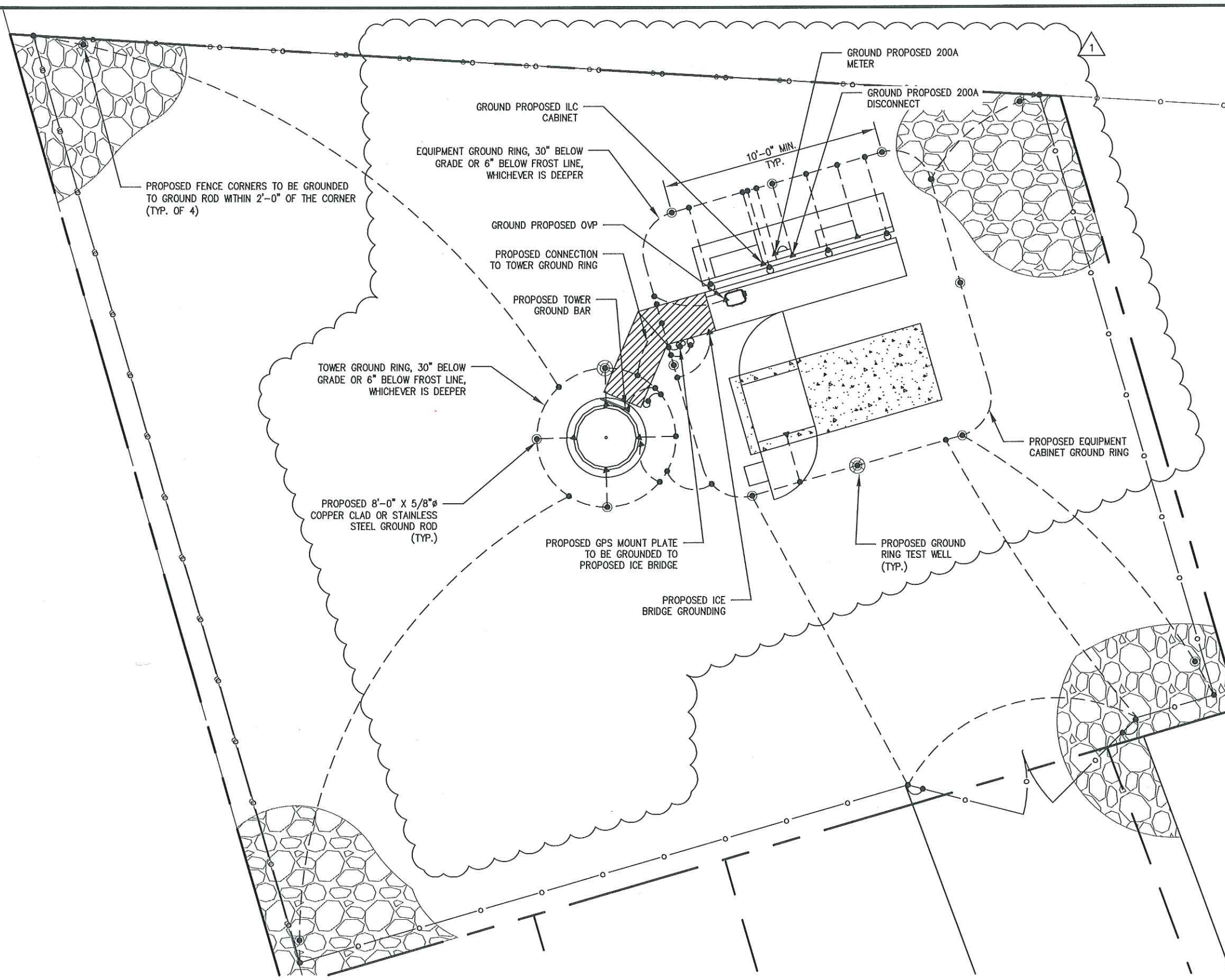
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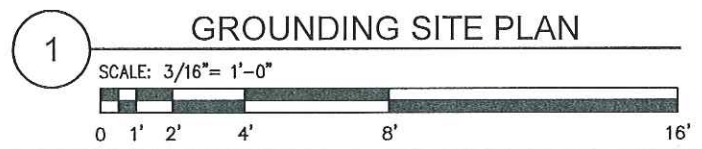
SHEET TITLE:
ONE-LINE DIAGRAM

SHEET NUMBER:
E2



- NOTES:
1. ALL EXTERIOR GROUND BARS SHALL BE GALVANIZED STEEL AND SHALL HAVE ALARM CONNECTIONS FOR THEFT PREVENTION PER GROUNDING STANDARD NSTD46 REV 2-1-11, SECTION 5.3.
 2. CONTRACTOR TO BOND ANY METALLIC ITEMS WITHIN 6'-0" OF VERIZON WIRELESS EQUIPMENT, SHELTER OR GROUND RING TO VERIZON WIRELESS GROUND RING.
 3. THE GROUNDING DIAGRAM SHOWN HERE IS SOMEWHAT SCHEMATIC IN NATURE AND MANY OF THE GROUNDING CONDUCTORS ARE SHOWN WITH A CURVE TO THEM. THIS IS SIMPLY TO INSURE THAT THEY STAND OUT FROM LEASE LINES, FENCE LINES AND SHELTER LINES ALL GROUNDING AND BONDING CONDUCTORS SHOULD BE INSTALLED IN AS STRAIGHT A LINE AS POSSIBLE. ANY BENDS THAT ARE REQUIRED IN GROUNDING OR BONDING CONDUCTORS SHOULD HAVE A RADIUS NO LESS THAN 12'.
 4. BONDING JUMPERS FROM REBAR CAGE AND ANCHOR BOLT TO GROUND RING SHOULD ATTACH AT LOCATIONS ALLOWING JUMPERS TO BE CLOSE TO HORIZONTAL AS POSSIBLE.
 5. SOME FENCE POSTS BETWEEN CORNER POSTS SHALL BE BONDED TO GROUNDING SYSTEM SO THAT MAXIMUM DISTANCE BETWEEN BONDED POSTS DOES NOT EXCEED 20'.
 6. EACH FENCE POST WITHIN 6'-0" OF ANY GROUNDED METALLIC OBJECT SHALL BE BONDED TO THE GROUND SYSTEM.
 7. INSTALL SECONDARY GROUND BAR AT EXTERIOR OF COAX ENTRY.
 8. INSTALL NEW SECONDARY GROUNDING BAR AT BASE OF MONOPOLE IN ACCORDANCE WITH GROUNDING STANDARD NSTD46. CONTRACTOR TO ALSO INSTALL SECONDARY GROUNDING BARS AT ANTENNAS IF REQUIRED TO MAKE COMPLETE GROUNDING SYSTEM AT MONOPOLE IN ACCORDANCE WITH GROUNDING STANDARD NSTD46.

NOTE:
CONTRACTOR SHALL NOT SUBMIT BIDS OR PERFORM CONSTRUCTION WORK ON THIS PROJECT WITHOUT ACCESS TO THE CURRENT COMPLETE SET OF DRAWINGS LISTED IN THE TITLE-SHEET INDEX



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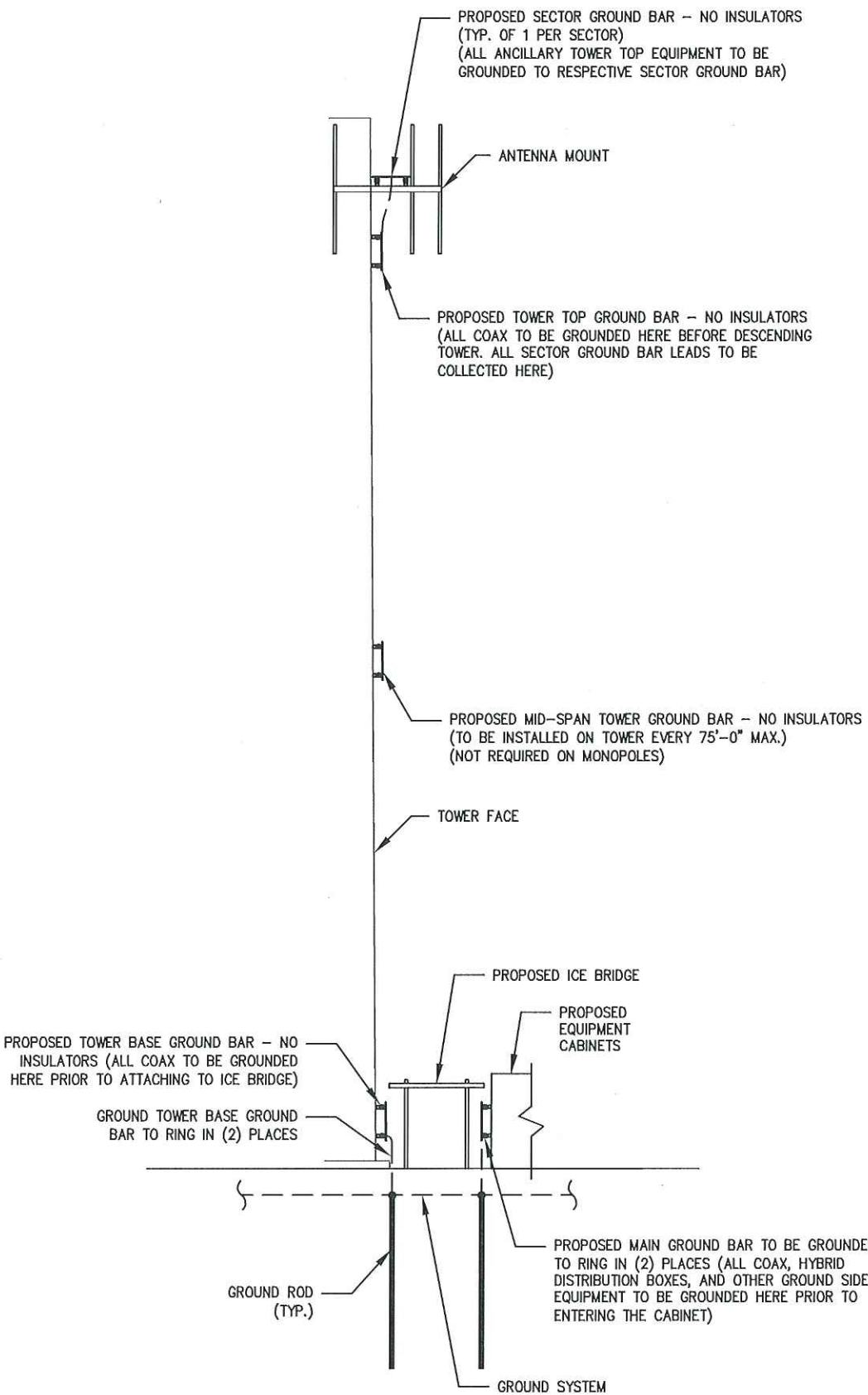
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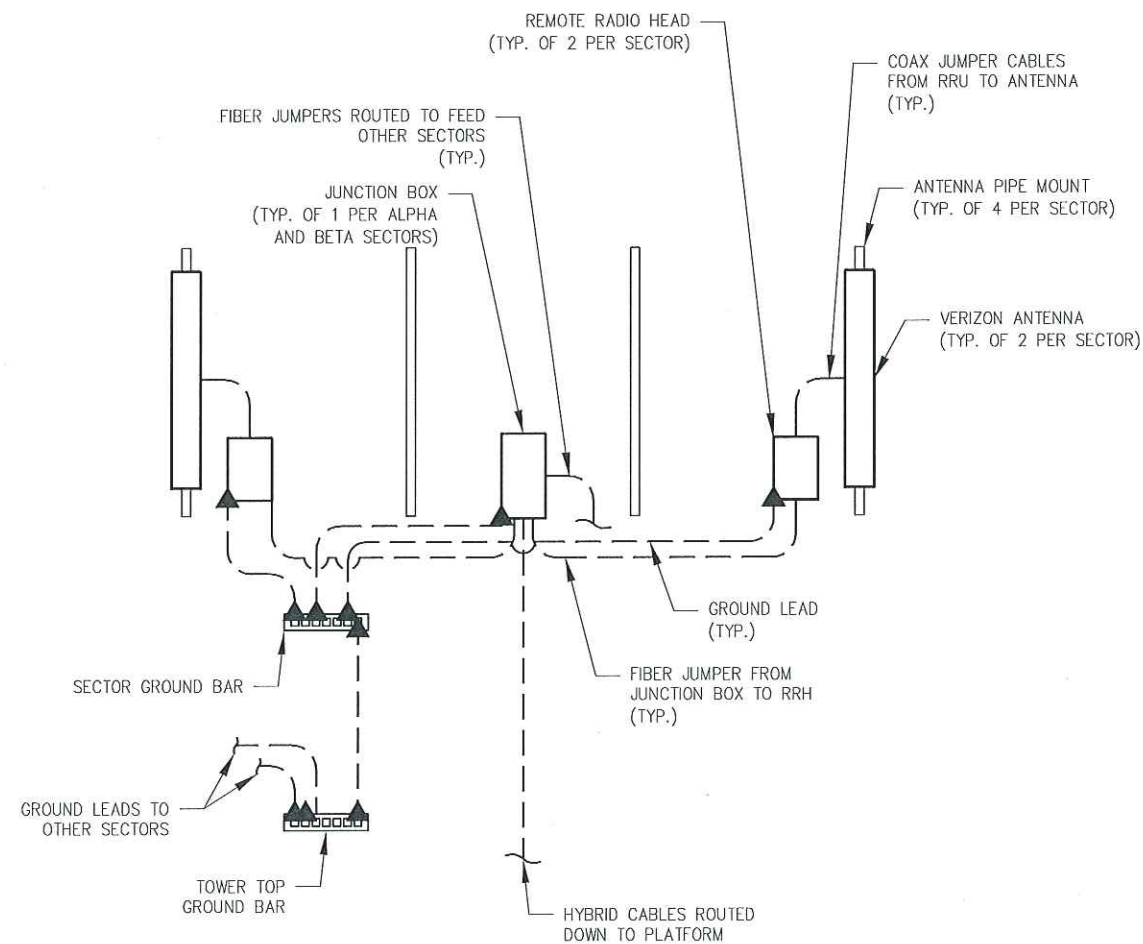
SHEET TITLE:
GROUNDING SITE PLAN

SHEET NUMBER:
G1



1 TYP. TOWER GROUNDING ELEVATION
SCALE: N.T.S.

NOTE:
GROUNDING DIAGRAM IS TYPICAL FOR ALL
SECTORS EXCEPT WHERE NOTED.



2 TYP. ANTENNA
GROUNDING DIAGRAM
SCALE: N.T.S.



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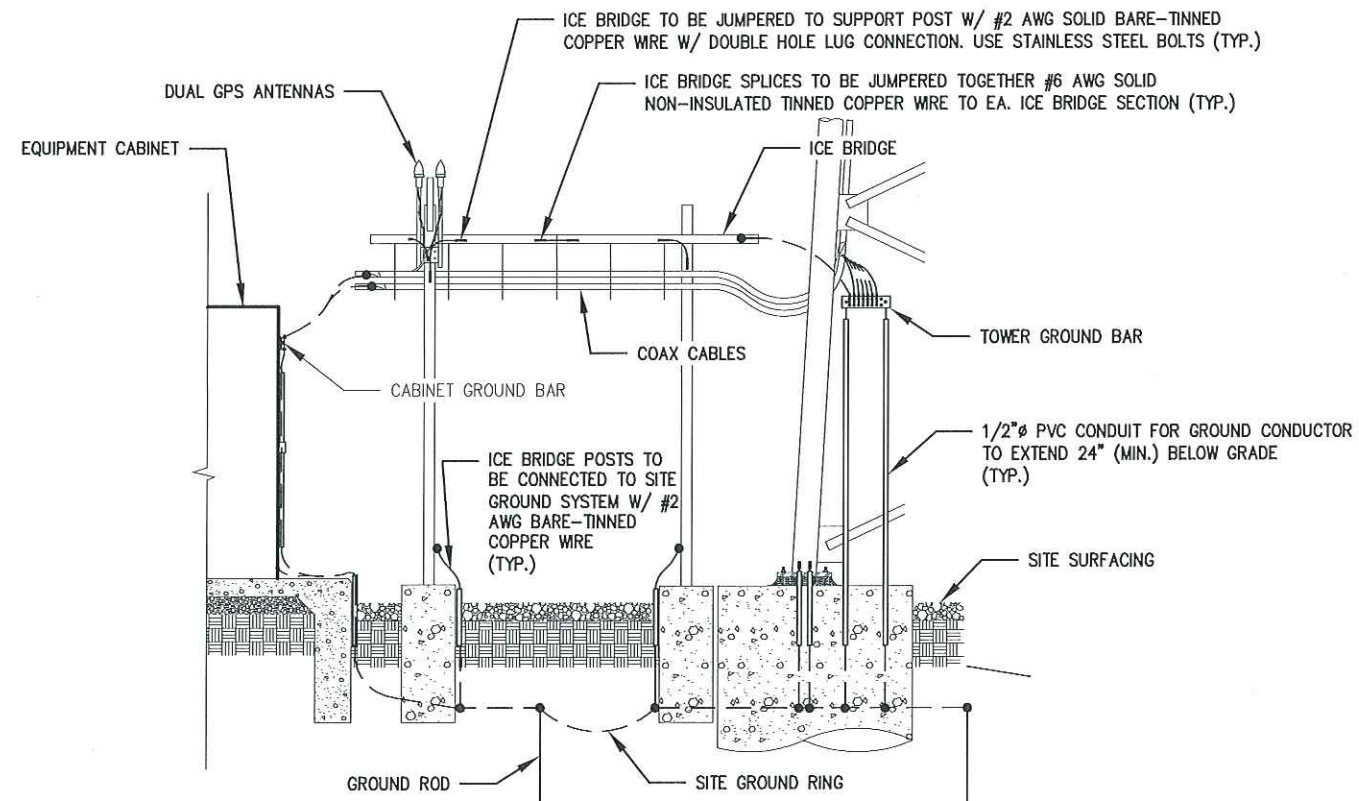
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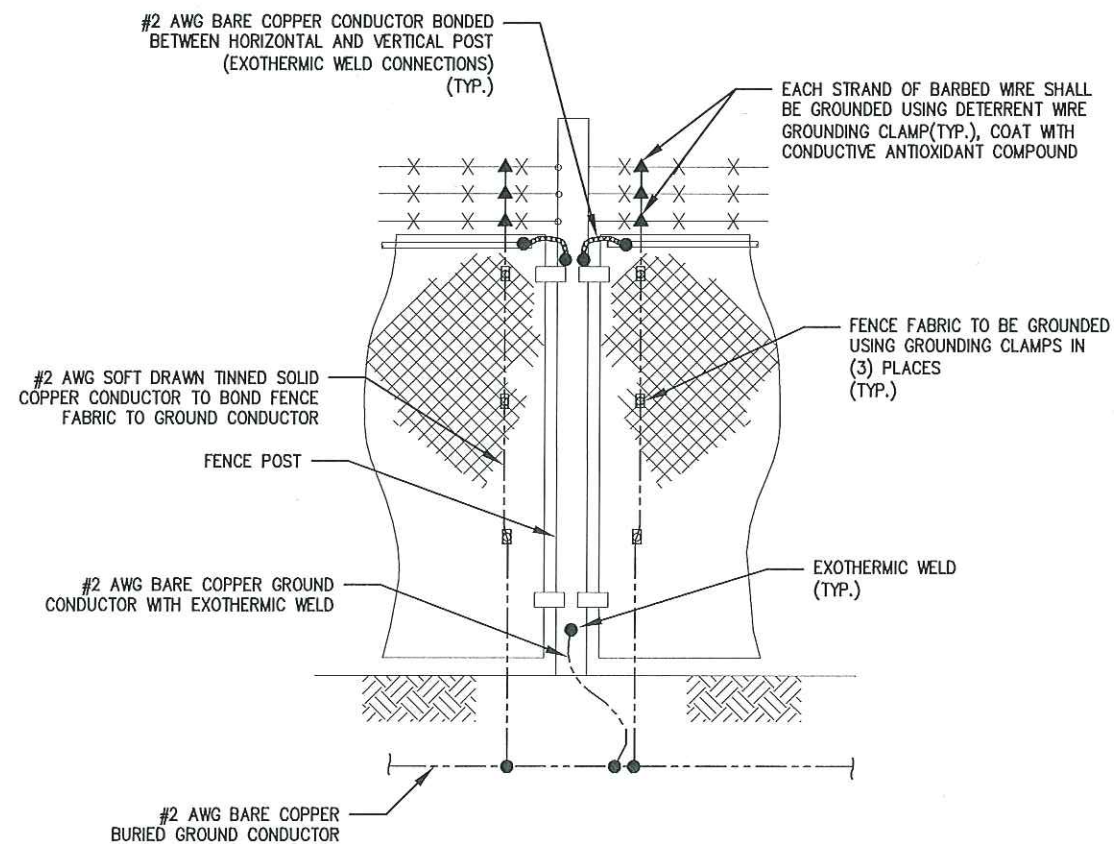
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NO	DESCRIPTION	BY	DATE

SHEET TITLE:
GROUNDING DETAILS

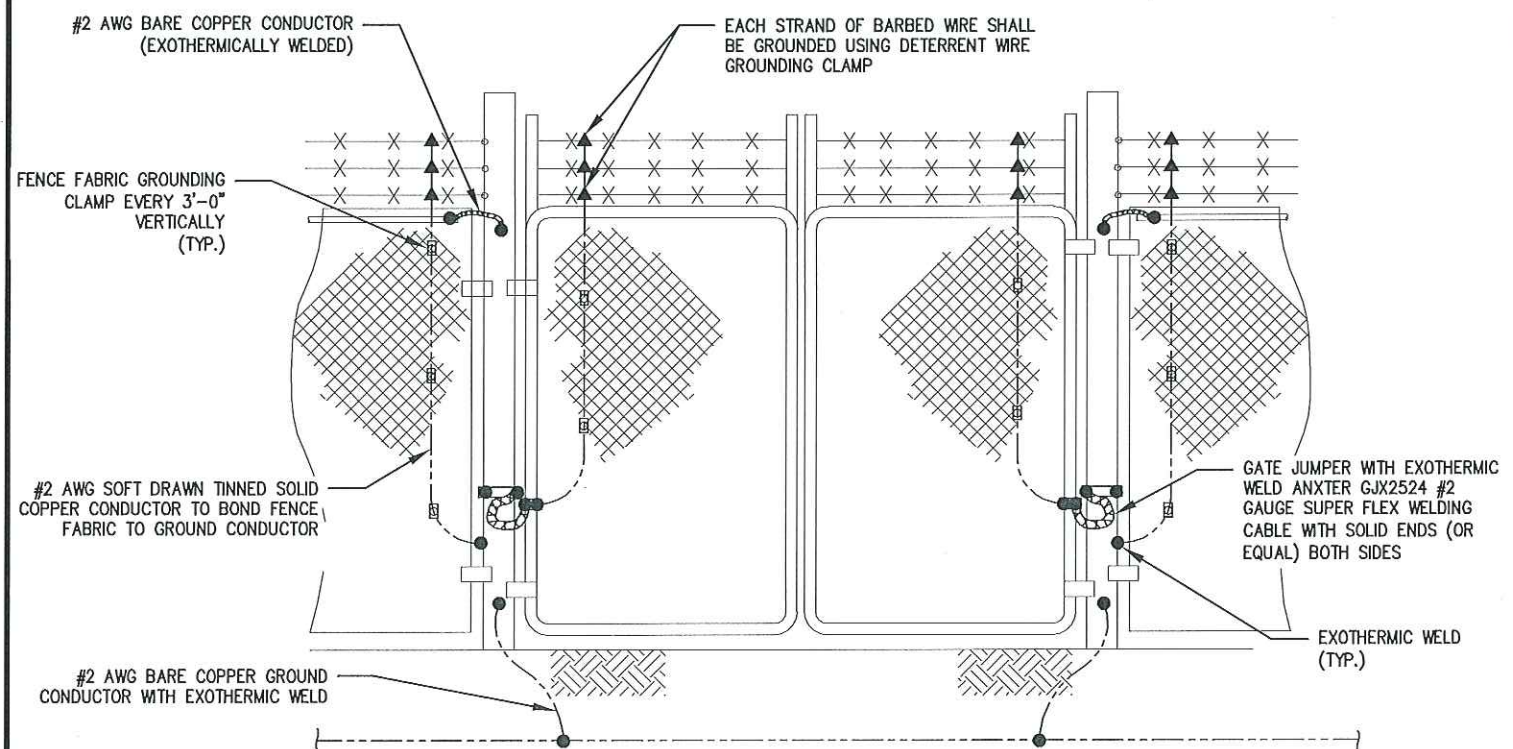
SHEET NUMBER:
G2



1 TYPICAL ICE BRIDGE GROUNDING
SCALE: N.T.S.



2 TYP. FENCE GROUNDING
SCALE: N.T.S.



3 TYP. GATE GROUNDING
SCALE: N.T.S.

- NOTE:
1. BOND EACH HORIZONTAL POLE/BRACE TO EACH OTHER AND TO EACH VERTICAL POLE BONDED TO THE EXTERIOR GROUND RING.
 2. GATE JUMPERS SHALL BE INSTALLED SUCH THAT THEY WILL NOT BE SUBJECTED TO DAMAGING STRAIN WHEN THE GATE IS FULLY OPEN IN EITHER DIRECTION.



09/11/2017

PE RENEWAL DATE DECEMBER 31, 2018

verizon

KGI

KGI WIRELESS, INC.
805 LAS CIMAS PKWY
BUILDING THREE, SUITE 370
AUSTIN, TX 78746
TEL: 512.345.9595
FAX: 512.345.9898

SITE NAME:
LSC MCNUTT
LOCATION CODE:
300209
SITE ADDRESS:
100 AIRPORT ROAD
SANTA TERESA, NM 88008

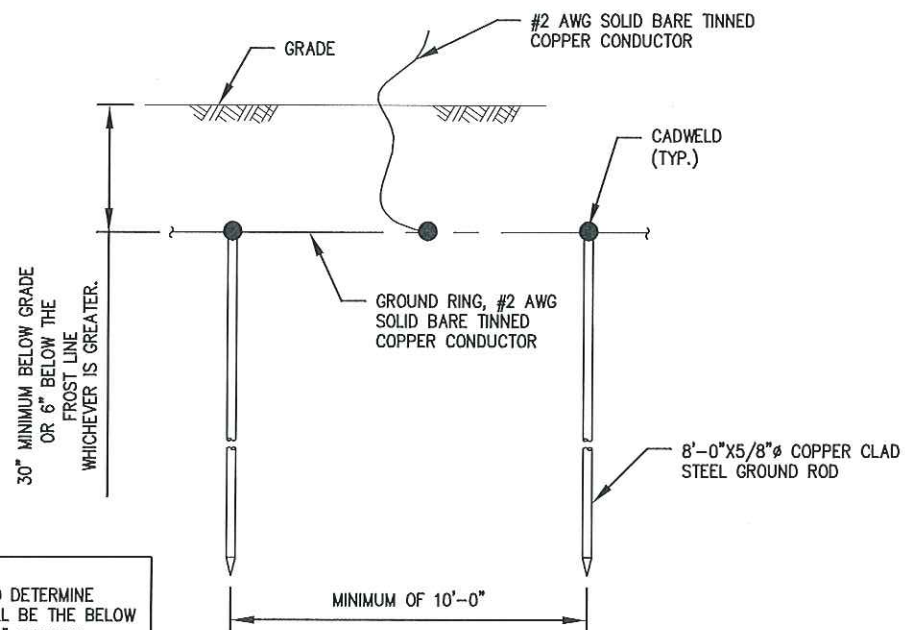
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ISSUED FOR:	DATE
REVIEW REV B	10/18/2016
REVIEW REV C	04/03/2017
CONSTRUCTION REV 0	07/20/2017
CONSTRUCTION REV 1	09/11/2017

REVISION			
NO	DESCRIPTION	BY	DATE

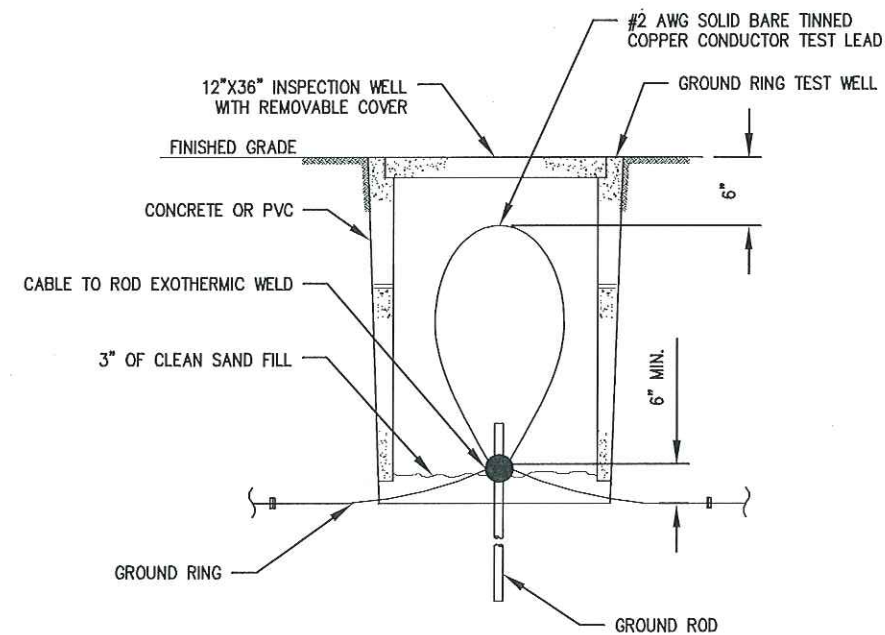
SHEET TITLE:
GROUNDING DETAILS

SHEET NUMBER:
G3

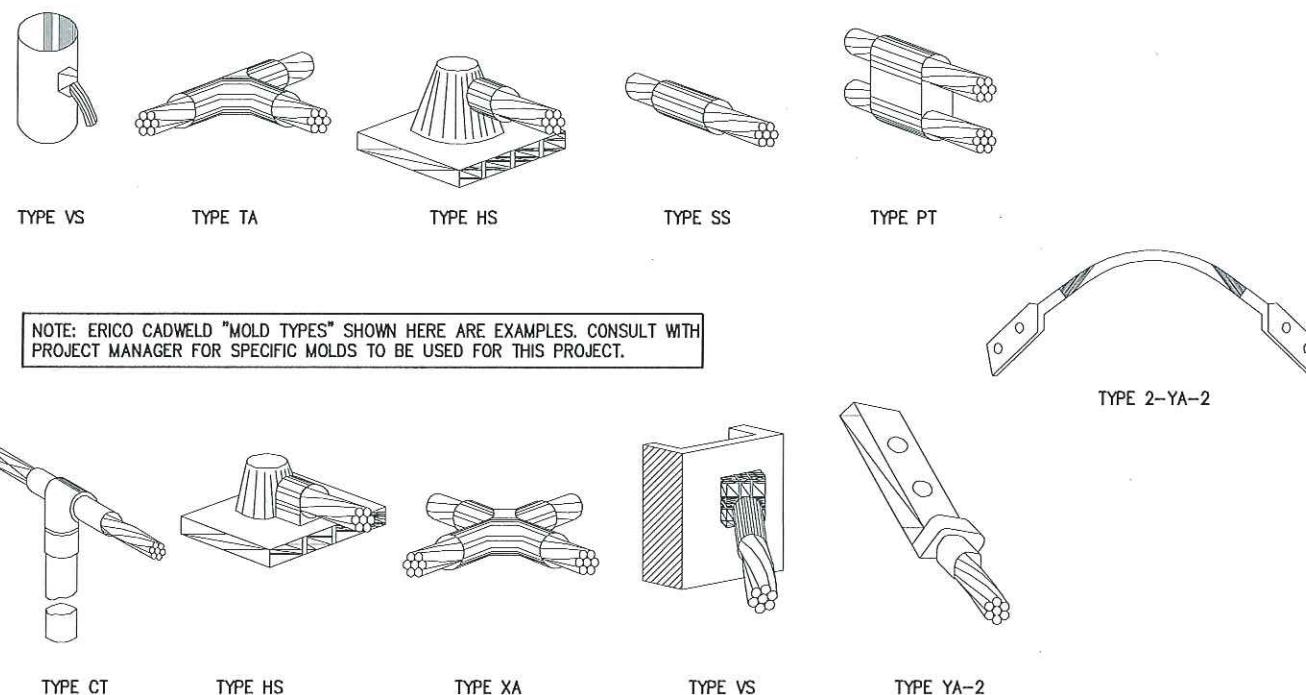


- NOTES:
1. DESIGNER/ENGINEER TO DETERMINE WHICH DIMENSION SHALL BE THE BELOW THE FROST LINE OR 30" MINIMUM.
 2. GROUND RODS SHALL BE DRIVEN VERTICALLY, NO TO EXCEED 45° FROM THE VERTICAL.

1 GROUND ROD DETAIL
SCALE: N.T.S.



2 TEST WELL DETAIL
SCALE: N.T.S.



3 TYP. EXOTHERMIC WELDS
SCALE: N.T.S.



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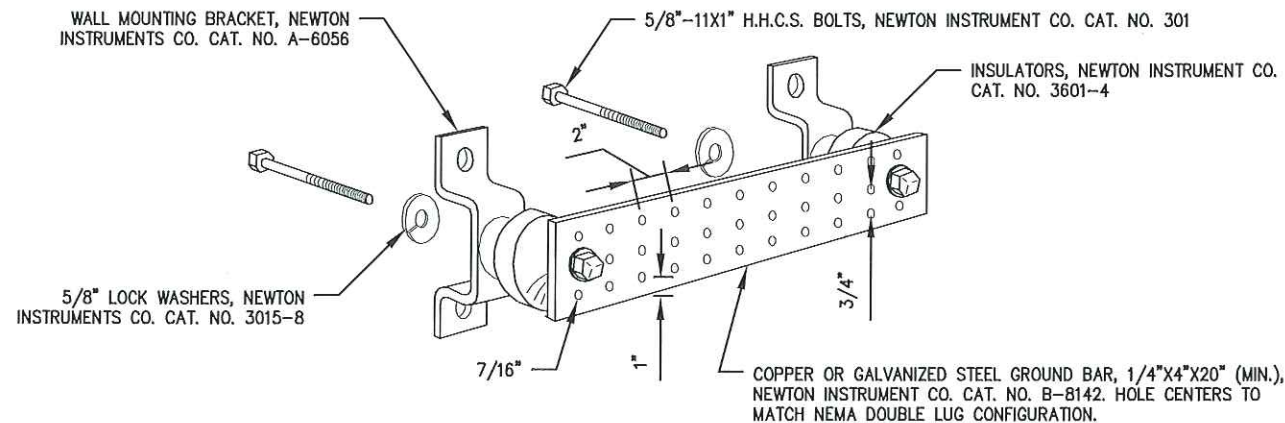
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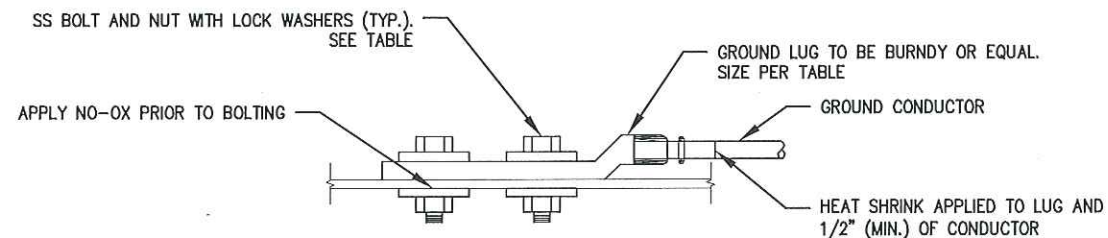
SHEET TITLE:
GROUNDING DETAILS

SHEET NUMBER:
G4



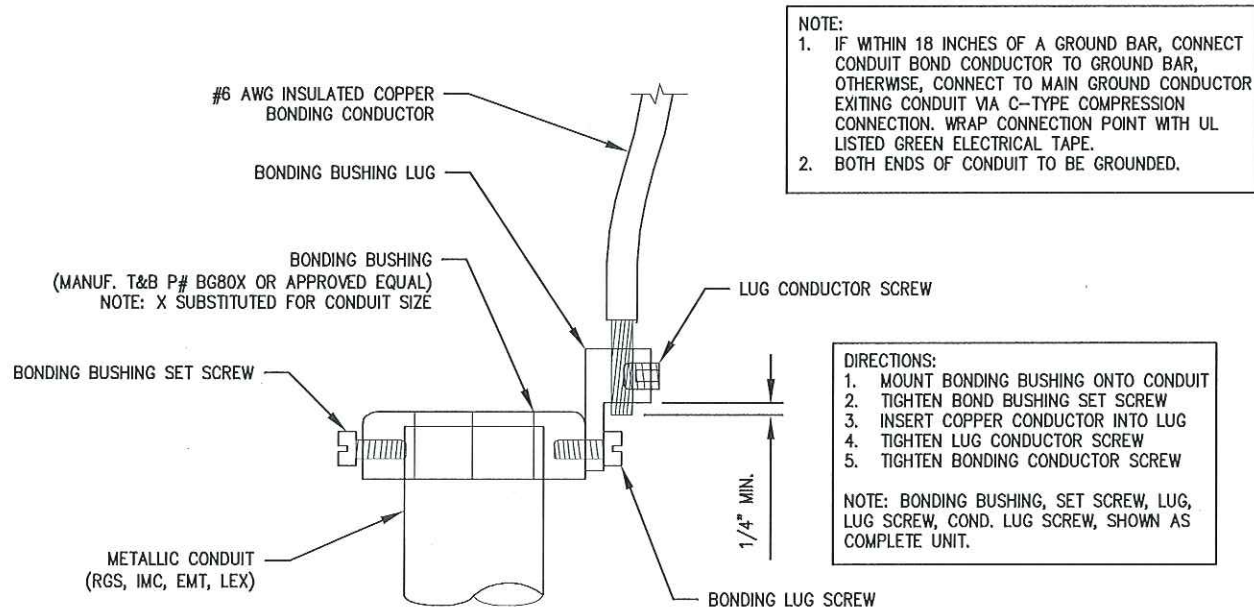
- NOTES:
1. GROUND BAR SHALL BE SIZED TO ACCOMMODATE ALL GROUNDING CONNECTIONS REQUIRED PLUS PROVIDE 50% SPARE CAPACITY.
 2. GROUND BAR SHALL BE NEITHER FIELD FABRICATED NOR NEW HOLES DRILLED.
 3. GROUND LUGS SHALL MATCH THE HOLE SPACING ON THE BAR.
 4. HARDWARE DIAMETER SHALL BE A MINIMUM 3/8\".

1 TYP. GROUND BAR DETAIL
SCALE: N.T.S.



WIRE SIZE	LUG #	BOLT DIA.
#6 AWG	YA6C2TC14E2	1/4"
#2 AWG	YA2CL-2TC14	1/4"
#2 AWG SOLID	YA3C2TC38	3/8"
#2/O AWG	YA262LN	1/2"
#4/O AWG	YA282LN	1/2"

2 TYP. TWO-HOLE LUG DETAIL
SCALE: N.T.S.



- NOTE:
1. IF WITHIN 18 INCHES OF A GROUND BAR, CONNECT CONDUIT BOND CONDUCTOR TO GROUND BAR, OTHERWISE, CONNECT TO MAIN GROUND CONDUCTOR EXITING CONDUIT VIA C-TYPE COMPRESSION CONNECTION. WRAP CONNECTION POINT WITH UL LISTED GREEN ELECTRICAL TAPE.
 2. BOTH ENDS OF CONDUIT TO BE GROUNDED.

- DIRECTIONS:
1. MOUNT BONDING BUSHING ONTO CONDUIT
 2. TIGHTEN BOND BUSHING SET SCREW
 3. INSERT COPPER CONDUCTOR INTO LUG
 4. TIGHTEN LUG CONDUCTOR SCREW
 5. TIGHTEN BONDING CONDUCTOR SCREW

NOTE: BONDING BUSHING, SET SCREW, LUG, LUG SCREW, COND. LUG SCREW, SHOWN AS COMPLETE UNIT.

3 TYP. CONDUIT GROUNDING DETAIL
SCALE: N.T.S.



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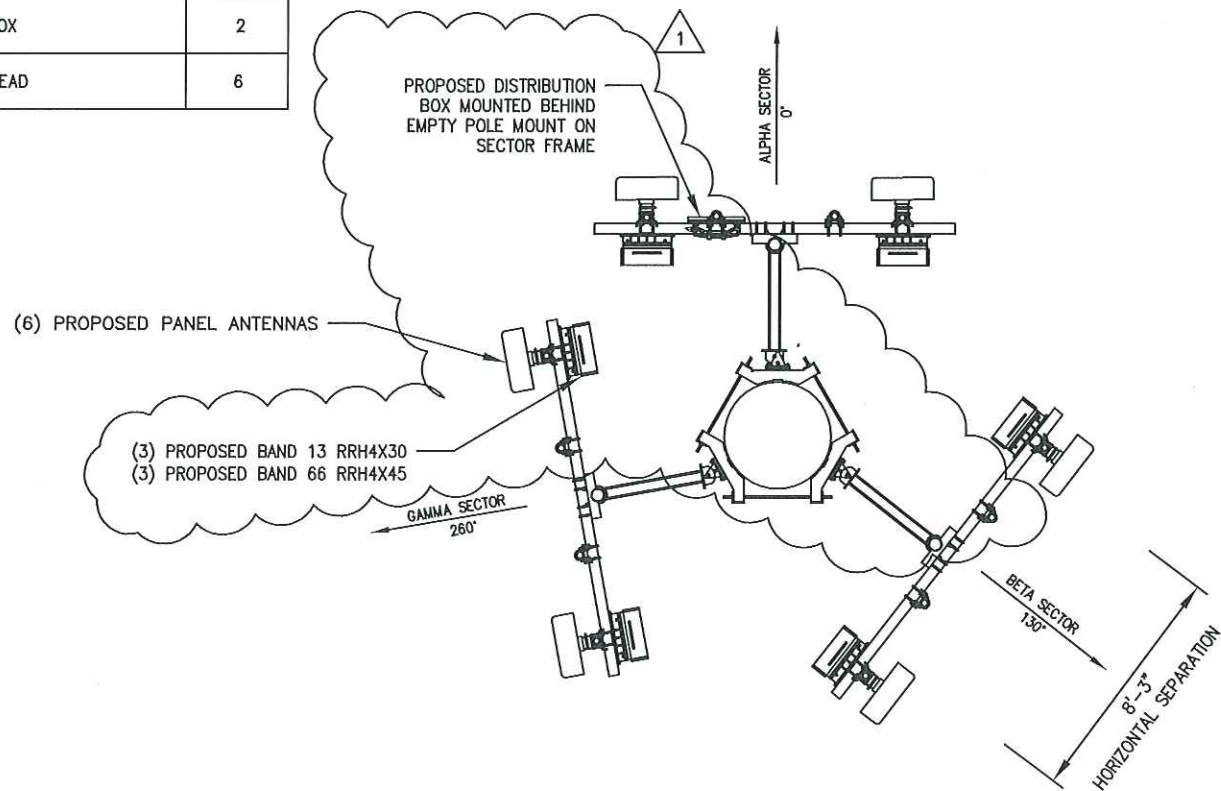
SHEET TITLE:
GROUNDING DETAILS

SHEET NUMBER:
G5

GENERAL ANTENNA NOTES:	
1	CONTRACTOR TO VERIFY MECHANICAL DOWNTILT WITH FINAL SLF/RF ENGINEER
2	DUAL POLAR ANTENNAS REQUIRE TWO RUNS OF COAX PER ANTENNA
3	CONTRACTOR TO VERIFY ALL ACTUAL LENGTHS IN FIELD PRIOR TO INSTALLATION AND NOTIFY THE FIELD ENGINEER FOR VERIFICATION OF SIZES OF CABLES
4	CONTRACTOR TO PROVIDE AS BUILT FOR THE LENGTH OF CABLES UPON COMPLETION OF INSTALLATION
5	CONTRACTOR TO PROVIDE FINAL CABLE LENGTHS AND RETURN LOSSES FOR ALL CABLES
6	ALL AZIMUTHS REFERENCE TRUE NORTH. CONSULT REQUIRED QUADRANGLE MAP FOR NECESSARY MECHANICAL DECLINATION

NEW LESSEE ANTENNA SCHEDULE:							
ATTACH LEVEL (COR)	AZIMUTHS (DGE., TN)	ANTENNA TYPE	ANTENNA QUANTITY	MOUNT TYPE	COAX (QUANTITY) SIZE (NOMINAL)	ESTIMATED COAX CABLE LENGTH	MECHANICAL DOWN TILT
70'-0"	0° 130° 260°	8'-0" PANEL ANTENNA	6	SEE ANTENNA MOUNT SCHEDULE	(2) HYBRIFLEX CABLES	100'-0"	REFER TO SLF
NOTES:							
1 FOR EXACT ANTENNA INFORMATION REFER TO THE RF DESIGN							
2 ALL NEW COAX SHALL BE INSTALLED INSIDE MONOPOLE (IF POSSIBLE)							
3 CONTRACTOR TO INSTALL DIPLEXERS IN SHELTER AND ON TOWER AS REQUIRED BY RF DESIGN (IF APPLICABLE)							

NEW LESSEE RRH & RAYCAP SCHEDULE:			
ATTACH LEVEL (COR)	AZIMUTHS (DGE., TN)	MAKE/MODEL	QUANTITY
65'-0"	-	HYBRID DISTRIBUTION BOX	2
65'-0"	-	REMOTE RADIO HEAD	6



1 ANTENNA SECTION @ 70'-0"
SCALE: N.T.S.

SECTOR COLOR CODE:				
SECTOR	ANTENNA LOCATIONS	FIRST STRIPE (PCS) OR (LTE) OR (A-BAND) OR (B-BAND)	SECOND STRIPE	THIRD STRIPE
ALPHA	1	RED OR WHITE OR YELLOW OR PURPLE	GREEN	-
	2			GREEN
	3			
	4			
BETA	1	RED OR WHITE OR YELLOW OR PURPLE	ORANGE	-
	2			ORANGE
	3			
	4			
GAMMA	1	RED OR WHITE OR YELLOW OR PURPLE	BROWN	-
	2			BROWN
	3			
	4			

ANTENNA MOUNT SCHEDULE:		
QUANTITY	DESCRIPTION	PART NUMBER(S)
1	10'-0" FACE, T-ARM ASSEMBLY KIT (3'-0" STANDOFF) - (1) TRI COLLAR BRACKET - (3) T-ARM ASSEMBLIES	C10-856-601
2	AZIMUTH SWIVEL	C10-113-200
NOTE: ALL PRODUCTS ARE FROM "SABRE SITE SOLUTIONS" PHONE: 866.428.6937/712.293.1964 WWW. SABRESITESOLUTIONS.COM		

ANTENNA COLOR CODE:	
ANTENNA FUNCTION	COLOR
CDMA-800 B-BAND	RED
CDMA-800 A-BAND	WHITE
PCS-1900	YELLOW
LTE-700	PURPLE
ANTENNA SECTOR	
ALPHA	GREEN
BETA	ORANGE
GAMMA	BROWN



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REVISION			
NO	DESCRIPTION	BY	DATE
1	REVISED ANTENNA SCH.	IP	09/06/2017

SHEET TITLE:
RF DATA SHEET

SHEET NUMBER:
RF1

NOTE:
CONTRACTOR SHALL NOT SUBMIT BIDS OR PERFORM CONSTRUCTION WORK ON THIS PROJECT WITHOUT ACCESS TO THE CURRENT COMPLETE SET OF DRAWINGS LISTED IN THE TITLE-SHEET INDEX