



161 INVERNESS DR W, 2ND FLOOR  
ENGLEWOOD, CO 80112

AT&T SITE NAME: WIDFIELD HIGH SCHOOL CO  
AT&T SITE ID: COL02205  
AT&T PACE NUMBER: MRUTH042458  
AT&T FA CODE: 15312479  
USID: 295097  
NSB - MONOPOLE  
LTE 1C/2C/3C/4C/5G NR 1SR



AMERICAN TOWER®

ATC SITE NAME: WIDFIELD HIGH SCHOOL II  
ATC SITE NUMBER: 370609  
SITE ADDRESS: 523 WIDFIELD ROAD  
COLORADO SPRINGS, CO 80911  
(EL PASO COUNTY)



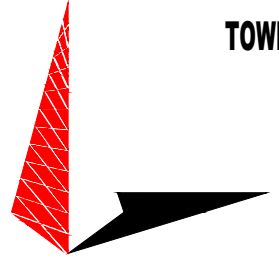
### LOCATION MAP



161 INVERNESS DR W, 2ND FLOOR  
ENGLEWOOD, CO 80112



AMERICAN TOWER®  
19100 VON KARMAN AVE  
SUITE 200  
IRVINE, CA 92612



TOWER ENGINEERING PROFESSIONALS  
4710 E ELWOOD ST, STE 9  
PHOENIX, AZ 85040  
OFFICE: (480) 285-0036  
www.tepgroup.net

\*LATITUDE N 38° 45' 17.39" (38.75483°)  
\*LONGITUDE W 104° 43' 50.02" (-104.73056°)

\*GROUND ELEV. (AMSL) = 5,795'±

\*INFORMATION PROVIDED BY ATC

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

1. INTERNATIONAL BUILDING CODE (2018 EDITION)
2. INTERNATIONAL CODE COUNCIL
3. ANSI/TIA/EIA-222-H
4. NATIONAL ELECTRIC CODE (2020 EDITION)
5. LOCAL BUILDING CODE
6. CITY/COUNTY ORDINANCES

### TOWER COORDINATES

### CODE COMPLIANCE

AT&T SITE NAME:	WIDFIELD HIGH SCHOOL CO	PROJECT DESCRIPTION:	COLLOCATION
AT&T SITE ID:	COL02205	TOWER TYPE:	119' MONOPOLE
FA:	15312479	JURISDICTION:	EL PASO COUNTY
PACE NUMBER:	MRUTH042458	LEASE AREA:	300 SQ FT
ATC SITE NAME:	WIDFIELD HIGH SCHOOL II	CURRENT ZONING:	A-5
ATC SITE NUMBER:	370609		

### PROJECT INFORMATION

#### SITE CONSTRUCTION MANAGER:

NAME: AT&T  
ADDRESS: 161 INVERNESS DR W, 2ND FLOOR  
CITY, STATE, ZIP: ENGLEWOOD, CO 80112  
CONTACT: REID POST  
PHONE: (720) 838-4228

#### SITE APPLICANT:

NAME: AT&T  
ADDRESS: 4393 S RIVERBOAT RD, 4TH FLOOR  
CITY, STATE, ZIP: SALT LAKE CITY, UT 84123  
CONTACT: JAN ROBINETTE  
PHONE: (801) 201-4173

#### CIVIL ENGINEER:

NAME: TOWER ENGINEERING PROFESSIONALS  
ADDRESS: 326 TRYON ROAD  
CITY, STATE, ZIP: RALEIGH, NC 27603  
CONTACT: GRAHAM M. ANDRES, P.E.  
PHONE: (919) 661-6351

#### ELECTRICAL ENGINEER:

NAME: TOWER ENGINEERING PROFESSIONALS  
ADDRESS: 326 TRYON ROAD  
CITY, STATE, ZIP: RALEIGH, NC 27603  
CONTACT: GRAHAM M. ANDRES, P.E.  
PHONE: (919) 661-6351

#### PROPERTY OWNER:

NAME: WIDFIELD SCHOOL DISTRICT NO 3  
ADDRESS: 1820 MAIN ST  
CITY, STATE, ZIP: COLORADO SPRINGS, CO 80911

### PROJECT TEAM

#### SHEET:

#### DESCRIPTION:

#### REV

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C-1.2	COMPOUND DETAIL	C
C-2	EQUIPMENT & ANTENNA LAYOUTS	C
C-3	EXISTING AND FINAL ELEVATIONS	C
C-4	EQUIPMENT DETAILS	C
C-5	EQUIPMENT DETAILS	C
C-6	WIC SHELTER DETAILS	C
C-7	GENERATOR DETAILS	C
C-8	FOUNDATION DETAILS	C
E-1	ELECTRICAL PANEL & GROUNDING PLANS	C
E-2	ONE-LINE DIAGRAM	C
E-3	DC SYSTEM DETAILS	C
G-1	GROUNDING DETAILS	C
G-2	GROUNDING DETAILS	C

### SHEET INDEX

#### POWER COMPANY:

COLORADO SPRINGS UTILITIES

#### CONTACT:

CUSTOMER SERVICE

#### PHONE:

(719) 448-4800

#### METER # NEAR SITE:

UNKNOWN

#### TELEPHONE COMPANY:

CENTURY LINK

#### CONTACT:

CUSTOMER SERVICE

#### PHONE:

(866) 915-7181

#### PHONE # NEAR SITE:

(719) 494-7942

#### PEDESTAL # NEAR SITE:

UNKNOWN

### UTILITY INFORMATION

#### DESIGN PACKAGE BASED ON RF DATA SHEET

RFDS NAME: COL02205  
REVISION: 1.00  
ISSUED: 09/21/2020 5:43:37 P.M.  
DATE UPDATED: 10/14/2020 11:33:08 A.M.

NUMBER OF SECTORS: 3  
NUMBER OF ANTENNAS: 6  
NUMBER OF TMAs: 0  
NUMBER OF RRHS: 9  
NUMBER OF FIBER/DC SQUIDS: 0  
NUMBER OF DC SQUIDS: 3  
NUMBER OF FIBER TRUNK CABLES: 3  
NUMBER OF DC TRUNK CABLES: 6  
NUMBER OF RF CABLES: 0

### RFDS DATA

#### THE PURPOSE OF THIS PROJECT IS AS FOLLOWS:

#### TOWER SCOPE OF WORK:

- INSTALL (3) SECTOR FRAMES
- INSTALL (6) ANTENNAS
- INSTALL (9) RRHS
- INSTALL (3) SQUIDS
- INSTALL (3) FIBER TRUNKS
- INSTALL (6) DC TRUNKS

#### GROUND SCOPE OF WORK:

- INSTALL (1) W.I.C. SHELTER PAD
- INSTALL (1) GENERATOR PAD
- INSTALL (1) W.I.C. SHELTER
- INSTALL (1) GENERATOR
- INSTALL (1) H-FRAME
- INSTALL METER AND DISCONNECT
- INSTALL FIBER BOX

NSB - MONOPOLE  
LTE - 1C/2C/3C/4C/5G NR 1SR

### SCOPE OF WORK

FROM COLORADO SPRINGS DOWNTOWN HEAD SOUTH ON I-25, TAKE EXIT 135 AND TURN LEFT ONTO S ACADEMY BLVD FOR .8 MILES, TAKE US 85 RAMP TO FOUNTAIN AND TAKE US 85 SOUTH FOR 1.4 MILES, TURN LEFT ONTO MAIN ST FOR .4 MILES, TURN RIGHT ONTO NORMAN DR. FOR .1 MILES, CONTINUE ONTO WIDFIELD DR. FOR .3 MILES, TURN LEFT ONTO HACKBERRY DR. FOLLOW THE ROAD TOWARDS THE BACK ENTRANCE OF THE FOOTFIELD FIELD SITE WILL BE ON THE RIGHT.

### DRIVING DIRECTIONS

### JURISDICTIONAL APPROVAL

#### DO NOT SCALE DRAWINGS.

CONTRACTOR SHALL VERIFY ALL PLANS AND EXISTING DIMENSIONS AND CONDITIONS ON THE JOB SITE AND SHALL IMMEDIATELY NOTIFY THE ARCHITECT/ENGINEER IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR SAME.

THE FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION. A TECHNICIAN WILL VISIT THE SITE AS REQUIRED FOR ROUTINE MAINTENANCE. THE PROJECT WILL NOT RESULT IN ANY SIGNIFICANT DISTURBANCE OR EFFECT ON DRAINAGE; NO SANITARY SEWER SERVICE, POTABLE WATER, OR TRASH DISPOSAL IS REQUIRED AND NO COMMERCIAL SIGNAGE IS PROPOSED.

### GENERAL NOTES

AT&T SITE ID: COL02205  
AT&T FA CODE: 15312479  
AT&T PACE #: MRUTH042458  
ATC #: 370609  
WIDFIELD HIGH SCHOOL II

523 WIDFIELD ROAD  
COLORADO SPRINGS,  
CO 80911  
(EL PASO COUNTY)  
EXISTING 119'-0"  
MONOPOLE TOWER  
NSB - LTE - 1C/2C/3C/4C/  
5G NR 1SR

#### ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	QA
A	11-23-20	KT	PRELIMINARY	EGG
B	12-14-20	SDD	90% CONSTRUCTION	EGG
C	02-18-21	CAK	90% CONSTRUCTION	EGG

#### SEAL:

PRELIMINARY  
DO NOT USE FOR  
CONSTRUCTION

IT IS A VIOLATION OF LAW FOR ANY PERSON,  
UNLESS THEY ARE ACTING UNDER THE DIRECTION  
OF A LICENSED PROFESSIONAL ENGINEER,  
TO ALTER THIS DOCUMENT.

#### SHEET TITLE:

TITLE SHEET

#### SHEET NUMBER:

T-1

#### REVISION:

C

#### TEP #:

177861.243634



GENERAL CONSTRUCTION NOTES:

1. OWNER FURNISHED MATERIALS, AT&T "THE COMPANY" WILL PROVIDE AND THE CONTRACTOR WILL INSTALL

A. BTS EQUIPMENT FRAME (PLATFORM) AND ICEBRIDGE SHELTER (GROUND BUILD/CO-LOCATE ONLY)

B. AC/TELCO INTERFACE BOX (PPC)

C. ICE BRIDGE (CABLE TRAY WITH COVER) (GROUND BUILD/CO-LOCATE ONLY, GC TO FURNISH AND INSTALL FOR ROOFTOP INSTALLATION)

D. TOWERS, MONOPOLES

E. TOWER LIGHTING

F. GENERATORS & LIQUID PROPANE TANK

G. ANTENNA STANDARD BRACKETS, FRAMES AND PIPES FOR MOUNTING

H. ANTENNAS (INSTALLED BY OTHERS)

I. TRANSMISSION LINE

J. TRANSMISSION LINE JUMPERS

K. TRANSMISSION LINE CONNECTORS WITH WEATHERPROOFING KITS

L. TRANSMISSION LINE GROUND KITS

M. HANGERS

N. HOISTING GRIPS

O. BTS EQUIPMENT
2. THE CONTRACTOR IS RESPONSIBLE TO PROVIDE ALL OTHER MATERIALS FOR THE COMPLETE INSTALLATION OF THE SITE INCLUDING, BUT NOT LIMITED TO, SUCH MATERIALS AS FENCING, STRUCTURAL STEEL SUPPORTING SUB-FRAME FOR PLATFORM, ROOFING LABOR AND MATERIALS, GROUNDING RINGS, GROUNDING WIRES, COPPER-CLAD OR XIT CHEMICAL GROUND ROD(S), BUSS BARS, TRANSFORMERS AND DISCONNECT SWITCHES WHERE APPLICABLE, TEMPORARY ELECTRICAL POWER, CONDUIT, LANDSCAPING COMPOUND STONE, CRANES, CORE DRILLING, SLEEPERS AND RUBBER MATTING, REBAR, CONCRETE CAISSONS, PADS AND/OR AUGER MOUNTS, MISCELLANEOUS FASTENERS, CABLE TRAYS, NON-STANDARD ANTENNA FRAMES AND ALL OTHER MATERIAL AND LABOR REQUIRED TO COMPLETE THE JOB ACCORDING TO THE DRAWINGS AND SPECIFICATIONS. IT IS THE POSITION OF AT&T TO APPLY FOR PERMITTING AND CONTRACTOR RESPONSIBLE FOR PICKUP AND PAYMENT OF REQUIRED PERMITS.
3. ALL WORK SHALL CONFORM TO ALL CURRENT APPLICABLE FEDERAL, STATE, AND LOCAL CODES, INCLUDING ANSI/EIA/ITIA-222, AND COMPLY WITH ATC CONSTRUCTION SPECIFICATIONS.
4. CONTRACTOR SHALL CONTACT LOCAL 811 FOR IDENTIFICATION OF UNDERGROUND UTILITIES PRIOR TO START OF CONSTRUCTION.
5. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL REQUIRED INSPECTIONS.
6. ALL DIMENSIONS TO, OF, AND ON EXISTING BUILDINGS, DRAINAGE STRUCTURES, AND SITE IMPROVEMENTS SHALL BE VERIFIED IN FIELD BY CONTRACTOR WITH ALL DISCREPANCIES REPORTED TO THE ENGINEER.
7. DO NOT CHANGE SIZE OR SPACING OF STRUCTURAL ELEMENTS.
8. DETAILS SHOWN ARE TYPICAL; SIMILAR DETAILS APPLY TO SIMILAR CONDITIONS UNLESS OTHERWISE NOTED.
9. THESE DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY WHICH SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
10. CONTRACTOR SHALL BRACE STRUCTURES UNTIL ALL STRUCTURAL ELEMENTS NEEDED FOR STABILITY ARE INSTALLED. THESE ELEMENTS ARE AS FOLLOWS: LATERAL BRACING, ANCHOR BOLTS, ETC.
11. CONTRACTOR SHALL DETERMINE EXACT LOCATION OF EXISTING UTILITIES, GROUNDS DRAINS, DRAIN PIPES, VENTS, ETC. BEFORE COMMENCING WORK.
12. INCORRECTLY FABRICATED, DAMAGED, OR OTHERWISE MISFITTING OR NONCONFORMING MATERIALS OR CONDITIONS SHALL BE REPORTED TO THE AT&T REP PRIOR TO REMEDIAL OR CORRECTIVE ACTION. ANY SUCH REMEDIAL ACTION SHALL REQUIRE WRITTEN APPROVAL BY THE AT&T REP PRIOR TO PROCEEDING.
13. EACH CONTRACTOR SHALL COOPERATE WITH THE AT&T REP, AND COORDINATE HIS WORK WITH THE WORK OF OTHERS.
14. CONTRACTOR SHALL REPAIR ANY DAMAGE CAUSED BY CONSTRUCTION OF THIS PROJECT TO MATCH EXISTING PRE-CONSTRUCTION CONDITIONS TO THE SATISFACTION OF THE AT&T CONSTRUCTION MANAGER.
15. ALL CABLE/CONDUIT ENTRY/EXIT PORTS SHALL BE WEATHERPROOFED DURING INSTALLATION USING A SILICONE SEALANT.
16. WHERE EXISTING CONDITIONS DO NOT MATCH THOSE SHOWN IN THIS PLAN SET, CONTRACTOR SHALL NOTIFY THE AT&T REP AND ENGINEER OF RECORD IMMEDIATELY.
17. CONTRACTOR SHALL ENSURE ALL SUBCONTRACTORS ARE PROVIDED WITH A COMPLETE AND CURRENT SET OF DRAWINGS AND SPECIFICATIONS FOR THIS PROJECT.
18. CONTRACTOR SHALL REMOVE ALL RUBBISH AND DEBRIS FROM THE SITE AT THE END OF EACH DAY.
19. CONTRACTOR SHALL COORDINATE WORK SCHEDULE WITH AMERICAN TOWER CORPORATION (ATC) AND TAKE PRECAUTIONS TO MINIMIZE IMPACT AND DISRUPTION OF OTHER OCCUPANTS OF THE FACILITY.
20. CONTRACTOR SHALL FURNISH ##### AND AMERICAN TOWER CORPORATION (ATC) WITH A PDF MARKED UP AS-BUILT SET OF DRAWINGS UPON COMPLETION OF WORK.
21. PRIOR TO SUBMISSION OF BID, CONTRACTOR SHALL COORDINATE WITH AT&T REP TO DETERMINE WHAT, IF ANY, ITEMS WILL BE PROVIDED. ALL ITEMS NOT PROVIDED SHALL BE PROVIDED AND INSTALLED BY THE CONTRACTOR. CONTRACTOR WILL INSTALL ALL ITEMS PROVIDED.
22. PRIOR TO SUBMISSION OF BID, CONTRACTOR SHALL COORDINATE WITH AT&T REP TO DETERMINE IF ANY PERMITS WILL BE OBTAINED BY CONTRACTOR. ALL REQUIRED PERMITS NOT OBTAINED BY AT&T MUST BE OBTAINED, AND PAID FOR, BY THE CONTRACTOR.
23. CONTRACTOR SHALL INSTALL ALL SITE SIGNAGE IN ACCORDANCE WITH AT&T SPECIFICATIONS AND REQUIREMENTS.

24. CONTRACTOR SHALL SUBMIT ALL SHOP DRAWINGS TO AT&T FOR REVIEW AND APPROVAL PRIOR TO FABRICATION.
25. ALL EQUIPMENT SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S SPECIFICATIONS AND LOCATED ACCORDING TO AT&T SPECIFICATIONS, AND AS SHOWN IN THESE PLANS.
26. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE PROJECT DESCRIBED HEREIN. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL THE CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES AND FOR COORDINATING ALL PORTIONS OF THE WORK UNDER THE CONTRACT.
27. CONTRACTOR SHALL NOTIFY AT&T REP A MINIMUM OF 48 HOURS IN ADVANCE OF POURING CONCRETE OR BACKFILLING ANY UNDERGROUND UTILITIES, FOUNDATIONS OR SEALING ANY WALL, FLOOR OR ROOF PENETRATIONS FOR ENGINEERING REVIEW AND APPROVAL.
28. CONTRACTOR SHALL BE RESPONSIBLE FOR SITE SAFETY INCLUDING COMPLIANCE WITH ALL APPLICABLE OSHA STANDARDS AND RECOMMENDATIONS AND SHALL PROVIDE ALL NECESSARY SAFETY DEVICES INCLUDING PPE AND PPM AND CONSTRUCTION DEVICES SUCH AS WELDING AND FIRE PREVENTION, TEMPORARY SHORING, SCAFFOLDING, TRENCH BOXES/SLOPING, BARRIERS, ETC.
29. THE CONTRACTOR SHALL PROTECT AT HIS OWN EXPENSE, ALL EXISTING FACILITIES AND SUCH OF HIS NEW WORK LIABLE TO INJURY DURING THE CONSTRUCTION PERIOD. ANY DAMAGE CAUSED BY NEGLECT ON THE PART OF THIS CONTRACTOR OR HIS REPRESENTATIVES, OR BY THE ELEMENTS DUE TO NEGLECT ON THE PART OF THIS CONTRACTOR OR HIS REPRESENTATIVES, EITHER TO THE EXISTING WORK, OR TO HIS WORK OR THE WORK OF ANY OTHER CONTRACTOR, SHALL BE REPAIRED AT HIS EXPENSE TO THE OWNER'S SATISFACTION.
30. ALL WORK SHALL BE INSTALLED IN A FIRST CLASS, NEAT AND WORKMANLIKE MANNER BY MECHANICS SKILLED IN THE TRADE INVOLVED. THE QUALITY OF WORKMANSHIP SHALL BE SUBJECT TO THE APPROVAL OF THE AT&T REP. ANY WORK FOUND BY THE AT&T REP TO BE OF INFERIOR QUALITY AND/OR WORKMANSHIP SHALL BE REPLACED AND/OR REWORKED AT CONTRACTOR EXPENSE UNTIL APPROVAL IS OBTAINED.
31. IN ORDER TO ESTABLISH STANDARDS OF QUALITY AND PERFORMANCE, ALL TYPES OF MATERIALS LISTED HEREINAFTER BY MANUFACTURER'S NAMES AND/OR MANUFACTURER'S CATALOG NUMBER SHALL BE PROVIDED BY THESE MANUFACTURERS AS SPECIFIED.
32. AT&T FURNISHED EQUIPMENT SHALL BE PICKED-UP AT THE AT&T WAREHOUSE, NO LATER THAN 48HR AFTER BEING NOTIFIED INSURED, STORED, UNCRATE, PROTECTED AND INSTALLED BY THE CONTRACTOR WITH ALL APPURTENANCES REQUIRED TO PLACE THE EQUIPMENT IN OPERATION, READY FOR USE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE EQUIPMENT AFTER PICKING IT UP.
33. AT&T OR HIS ARCHITECT/ENGINEER RESERVES THE RIGHT TO REJECT ANY EQUIPMENT OR MATERIALS WHICH, IN HIS OWN OPINION ARE NOT IN COMPLIANCE WITH THE CONTRACT DOCUMENTS, EITHER BEFORE OR AFTER INSTALLATION AND THE EQUIPMENT SHALL BE REPLACED WITH EQUIPMENT CONFORMING TO THE REQUIREMENTS OF THE CONTRACT DOCUMENTS BY THE CONTRACTOR AT NO COST TO AT&T OR THEIR ARCHITECT/ENGINEER.
- STRUCTURAL STEEL NOTES:
1. STRUCTURAL STEEL SHALL CONFORM TO THE LATEST EDITION OF THE AISC "SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS."
2. STRUCTURAL STEEL ROLLED SHAPES, PLATES AND BARS SHALL CONFORM TO THE FOLLOWING ASTM DESIGNATIONS:

A. ASTM A-572, GRADE 50 - ALL W SHAPES, UNLESS NOTED OR A992 OTHERWISE

B. ASTM A-36 - ALL OTHER ROLLED SHAPES, PLATES AND BARS UNLESS NOTED OTHERWISE.

C. ASTM A-500, GRADE B - HSS SECTION (SQUARE, RECTANGULAR, AND ROUND)

D. ASTM A-325, TYPE SC OR N - ALL BOLTS FOR CONNECTING STRUCTURAL MEMBERS

E. ASTM F-1554 07 - ALL ANCHOR BOLTS, UNLESS NOTED OTHERWISE
3. ALL EXPOSED STRUCTURAL STEEL MEMBERS SHALL BE HOT-DIPPED GALVANIZED AFTER FABRICATION PER ASTM A123. EXPOSED STEEL HARDWARE AND ANCHOR BOLTS SHALL BE GALVANIZED PER ASTM A153 OR B695.
4. ALL FIELD CUT SURFACES, FIELD DRILLED HOLES AND GROUND SURFACES WHERE EXISTING PAINT OR GALVANIZATION REMOVAL WAS REQUIRED SHALL BE REPAIRED WITH (2) BRUSHED COATS OF ZRC GALVILITE COLD GALVANIZING COMPOUND PER ASTM A780 AND MANUFACTURER'S RECOMMENDATIONS.
5. DO NOT DRILL HOLES THROUGH STRUCTURAL STEEL MEMBERS EXCEPT AS SHOWN AND DETAILED ON STRUCTURAL DRAWINGS.
6. CONNECTIONS:

A. ALL WELDING TO BE PERFORMED BY AWS CERTIFIED WELDERS AND CONDUCTED IN ACCORDANCE WITH THE LATEST EDITION OF THE AWS WELDING CODE D1.1.

B. ALL WELDS SHALL BE INSPECTED VISUALLY. 25% OF WELDS SHALL BE INSPECTED WITH DYE PENETRANT OR MAGNETIC PARTICLE TO MEET THE ACCEPTANCE CRITERIA OF AWS D1.1. REPAIR ALL WELDS AS NECESSARY.

C. INSPECTION SHALL BE PERFORMED BY AN AWS CERTIFIED WELD INSPECTOR.

D. IT IS THE CONTRACTORS RESPONSIBILITY TO PROVIDE BURNING/WELDING PERMITS AS REQUIRED BY LOCAL GOVERNING AUTHORITY AND IF REQUIRED SHALL HAVE FIRE DEPARTMENT DETAIL FOR ANY WELDING ACTIVITY.

E. ALL ELECTRODES TO BE LOW HYDROGEN, MATCHING FILLER METAL, PER AWS D1.1, UNLESS NOTED OTHERWISE.

- F. MINIMUM WELD SIZE TO BE 0.1875 INCH FILLET WELDS, UNLESS NOTED OTHERWISE.
- G. PRIOR TO FIELD WELDING GALVANIZING MATERIAL, CONTRACTOR SHALL GRIND OFF GALVANIZING 1/2" BEYOND ALL FIELD WELD SURFACES. AFTER WELD AND WELD INSPECTION IS COMPLETE, REPAIR ALL GROUND AND WELDED SURFACES WITH ZRC GALVILITE COLD GALVANIZING COMPOUND PER ASTM A780 AND MANUFACTURERS RECOMMENDATIONS.
- H. THE CONTRACTOR SHALL PROVIDE ADEQUATE SHORING AND/OR BRACING WHERE REQUIRED DURING CONSTRUCTION UNTIL ALL CONNECTIONS ARE COMPLETE.
- I. ANY FIELD CHANGES OR SUBSTITUTIONS SHALL HAVE PRIOR APPROVAL FROM THE ENGINEER, AND AT&T PROJECT MANAGER IN WRITING

SPECIAL CONSTRUCTION  
ANTENNA INSTALLATION NOTES:

1. WORK INCLUDED:

A. ANTENNA AND COAXIAL CABLES ARE FURNISHED BY AT&T UNDER A SEPARATE CONTRACT. THE CONTRACTOR SHALL ASSIST ANTENNA INSTALLATION CONTRACTOR IN TERMS OD COORDINATION AND SITE ACCESS. ERECTION SUBCONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF PERSONNEL AND

B. INSTALL ANTENNA AS INDICATE ON DRAWINGS AND AT&T SPECIFICATIONS.

C. INSTALL GALVANIZED STEEL ANTENNA MOUNTS AS INDICATED ON DRAWINGS

D. INSTALL FURNISHED GALVANIZED STEEL OR ALUMINUM WAVEGUIDE AND PROVIDE PRINTOUT OF THAT TEST.

E. CONTRACTOR SHALL PROVIDE FOUR (4) SETS OF SWEEP TESTS USING ANRITZU-PACKARD 8713B RF SCALAR NETWORK ANALYZER. SUBMIT FREQUENCY DOMAIN REFLECTOMETER(FDR) TESTS RESULTS TO THE PROJECT MANAGER. SWEEP TESTS SHALL BE AS PER ATTACHED RFS "MINIMUM FIELD TESTING RECOMMENDED FOR ANTENNA AND HELIAX COAXIAL CABLE SYSTEMS" DATED 10/5/93. TESTING SHALL BE PERFORMED BY AN INDEPENDENT TESTING SERVICE AND BE BOUND AND SUBMITTED WITHIN ONE WEEK OF WORK COMPLETION.
- F. INSTALL COAXIAL CABLES AND TERMINATING BETWEEN ANTENNAS AND EQUIPMENT PER MANUFACTURER'S RECOMMENDATIONS. WEATHERPROOF ALL CONNECTIONS BETWEEN THE ANTENNA AND EQUIPMENT PER MANUFACTURER'S REQUIREMENTS. TERMINATE ALL COAXIAL CABLE THREE (3) FEET IN EXCESS OF ENTRY PORT LOCATION UNLESS OTHERWISE STATED.
- G. ANTENNA AND COAXIAL CABLE GROUNDING:

2. ALL EXTERIOR #6 GREED GROUND WIRE "DAISY CHAIN" CONNECTIONS ARE TO BE WEATHER SEALED WITH RFS CONNECTORS/SPlice WEATHERPROOFING KIT #221213 OR EQUAL.

3. ALL COAXIAL CABLE GROUNDING KITS ARE TO BE INSTALLED ON STRAIGHT RUNS OF COAXIAL CABLE (NOT WITHIN BENDS)

CONCRETE AND REINFORCING STEEL NOTES:

1. DESIGN AND CONSTRUCTION OF ALL CONCRETE ELEMENTS SHALL CONFORM TO THE LATEST EDITIONS OF ALL APPLICABLE CODES INCLUDING: ACI 301 "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS", ACI 117 "SPECIFICATIONS FOR TOLERANCES FOR CONCRETE CONSTRUCTION AND MATERIALS", AND ACI 318 "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE."
2. MIX DESIGN SHALL BE APPROVED BY AT&T REP PRIOR TO PLACING CONCRETE.
3. CONCRETE SHALL BE NORMAL WEIGHT, 6 % AIR ENTRAINED (+/- 1.5%) WITH A SLUMP RANGE OF 3-6" AND HAVE A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 4000 PSI UNLESS OTHERWISE NOTED.
4. THE FOLLOWING MATERIALS SHALL BE USED:

PORTLAND CEMENT: ASTM C150, TYPE 2

REINFORCEMENT: ASTM A185, PLAIN STEEL WELDED WIRE FABRIC

REINFORCEMENT BARS: ASTM A615, GRADE 60, DEFORMED

NORMAL WEIGHT AGGREGATE:ASTM C33

WATER: ASTM C 94/C 94M

WELDED WIRE FABRIC: ASTM A185

ADMIXTURES:

-WATER-REDUCING AGENT: ASTM C 494/C 494M, TYPE A

-AIR-ENTERING AGENT: ASTM C 260/C 260M

-SUPERPLASTICIZER: ASTM C494, TYPE F OR TYPE G

-RETARDING: ASTM C 494/C 494M, TYPE B
5. MINIMUM CONCRETE COVER FOR REINFORCING STEEL SHALL BE NO LESS THAN 3".
6. A 3/4" CHAMFER SHALL BE PROVIDED AT ALL EXPOSED EDGES OF CONCRETE IN ACCORDANCE WITH ACI 301 SECTION 4.2.4, UNLESS NOTED OTHERWISE.
7. INSTALLATION OF CONCRETE EXPANSION/WEDGE ANCHOR SHALL BE PER MANUFACTURER'S WRITTEN RECOMMENDED PROCEDURE. THE ANCHOR BOLT, DOWEL, OR ROD SHALL CONFORM TO MANUFACTURER'S RECOMMENDATION FOR EMBEDMENT DEPTH OR AS SHOWN ON THE DRAWINGS. NO REBAR SHALL BE CUT WITHOUT PRIOR APPROVAL FROM AN ATC ENGINEER WHEN DRILLING HOLES IN CONCRETE.
8. ADMIXTURES SHALL CONFORM TO THE APPROPRIATE ASTM STANDARD AS REFERENCED IN "METHOD 1" OF ACI 301.
9. DO NOT WELD OR TACK WELD REINFORCING STEEL.
10. ALL DOWELS, ANCHOR BOLTS, EMBEDDED STEEL, ELECTRICAL CONDUITS, PIPE SLEEVES, GROUNDS AND ALL OTHER EMBEDDED ITEMS AND FORMED DETAILS SHALL BE IN PLACE BEFORE START OF CONCRETE PLACEMENT.

11. REINFORCEMENT SHALL BE COLD BENT WHENEVER BENDING IS REQUIRED.
12. DO NOT PLACE CONCRETE IN WATER, ICE, OR ON FROZEN GROUND.
13. FOR COLD-WEATHER (ACI 308) AND HOT-WEATHER (ACI 301M) CONCRETE PLACEMENT, CONFORM TO APPLICABLE ACI CODES AND RECOMMENDATIONS. IN EITHER CASE, MATERIALS CONTAINING CHLORIDE, CALCIUM, SALTS, ETC. SHALL NOT BE USED. PROTECT FRESH CONCRETE FROM WEATHER FOR 7 DAYS, MINIMUM.
14. ALL CONCRETE SHALL HAVE A "SMOOTH FORM FINISH."
15. SPLICING OF REINFORCEMENT IS PERMITTED ONLY AT LOCATIONS SHOWN IN THE CONTRACT DRAWINGS OR AS ACCEPTED BY THE ENGINEER. UNLESS OTHERWISE SHOWN OR NOTED REINFORCING STEEL SHALL BE SPLICED TO DEVELOP ITS FULL TENSILE CAPACITY (CLASS A) IN ACCORDANCE WITH ACI 318.
16. DETAILING OF REINFORCING STEEL SHALL CONFORM TO "ACI MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES" (ACI 315).
17. ALL SLAB CONSTRUCTION SHALL BE CAST MONOLITHICALLY WITHOUT HORIZONTAL CONSTRUCTION JOINTS, UNLESS SHOWN IN THE CONTRACT DRAWINGS.
18. LOCATION OF ALL CONSTRUCTION JOINTS ARE SUBJECT TO THE REQUIREMENTS OF THE CONTRACT DOCUMENTS, CONFORMANCE WITH ACI 318, AND ACCEPTANCE OF THE ENGINEER. DRAWINGS SHOWING LOCATION OF DETAILS OF THE PROPOSED CONSTRUCTION JOINTS SHALL BE SUBMITTED WITH REINFORCING STEEL PLACEMENT DRAWINGS.
19. SPLICES OF WWF, AT ALL SPLICED EDGES, SHALL BE SUCH THAT THE OVERLAP MEASURED BETWEEN OUTERMOST CROSS WIRES OF EACH FABRIC SHEET IS NOT LESS THAN THE SPACING OF THE CROSS WIRE PLUS 2 INCHES, NOR LESS THAN 6".
20. BAR SUPPORTS SHALL BE ALL-GALVANIZED METAL WITH PLASTIC TIPS.
21. ALL REINFORCEMENT SHALL BE SECURELY TIED IN PLACE TO PREVENT DISPLACEMENT BY CONSTRUCTION TRAFFIC OR CONCRETE. TIE WIRE SHALL BE OF SUFFICIENT STRENGTH FOR INTENDED PURPOSE, BUT NOT LESS THAN NO. 18 GAUGE.
22. SLAB ON GROUND: COMPACT STRUCTURAL FILL TO 95% DENSITY AND THEN PLACE 6" GRAVEL BENEATH SLAB.

ELECTRICAL NOTES:

1. ELECTRICAL DESIGN SHALL BE PERFORMED BY ELECTRICAL CONTRACTOR. STRUCTURAL DESIGN SHALL BE PERFORMED BY GENERAL CONTRACTOR. ELECTRICAL CONTRACTOR SHALL ENSURE THAT ALL WORK COMPLIES WITH ALL APPLICABLE LOCAL AND STATE CODES AND NATIONAL ELECTRICAL CODE.
2. ALL SUGGESTED ELECTRICAL ELEMENTS (SUCH AS BREAKER SIZES, WIRE SIZES, CONDUITS SIZES ARE FOR ZONING PURPOSES ONLY. IT IS THE RESPONSIBILITY TO OF THE ELECTRICAL CONTRACTOR TO CONFIRM COMPLIANCE WITH LOCAL ELECTRICAL CODES AND PASS ALL APPLICABLE AND NECESSARY INSPECTIONS. IN SOME EVENTS, IT MAY BE NECESSARY TO PERFORM AN ELECTRICAL LOAD STUDY TO VERIFY THE CAPACITY OF THE EXISTING SERVICE. THIS IS NOT THE RESPONSIBILITY OF CONCORDIA. IT IS THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR.
3. CONTRACTOR SHALL FIELD LOCATE ALL BELOW GRADE GROUND LINES AND UTILITY LINES PRIOR TO CONSTRUCTION. CONTRACTOR IS RESPONSIBLE FOR RELOCATION OF ALL UTILITIES AND GROUND LINES THAT MAY BECOME DISTURBED OR CONFLICTING IN THE COURSE OF CONSTRUCTION.

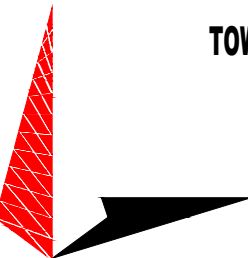
ALL DISCREPANCIES FROM WHAT IS SHOWN ON THESE CONSTRUCTION DRAWINGS SHALL BE COMMUNICATED TO ATC ENGINEERING IMMEDIATELY FOR CORRECTION OR RE-DESIGN. FAILURE TO COMMUNICATE DIRECTLY WITH ATC ENGINEERING OR ANY CHANGES FROM THE DESIGN CONDUCTED WITHOUT PRIOR APPROVAL FROM ATC ENGINEERING SHALL BE THE SOLE RESPONSIBILITY OF THE GENERAL CONTRACTOR.



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EXISTING 119'-0"  
MONOPOLE TOWER  
NSB - LTE - 1C/2C/3C/4C/  
5G NR 1SR

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	QA
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SHEET TITLE:

GENERAL NOTES

SHEET NUMBER:

T-2

REVISION:

C

TEP #:

177861.243634



NOTE:

SITE SURVEY PERFORMED BY MILLMAN, NATIONAL LAND SERVICES DATED APRIL 15, 2013 WAS PROVIDED BY AMERICAN TOWER ENGINEERING.

FIDELITY NATIONAL TITLE INSURANCE COMPANY  
COMMITMENT NO. 16085920 - SCHEDULE A:

An interest in land, said interest being over a portion of the following described parcel:  
A portion of the East half of the Southwest quarter of Section 12 in Township 15 South, Range 66 West of the 6th P. M., El Paso County, Colorado, being more particularly described as follows: Beginning at a point on the East line of a tract described in a deed to El Paso County School District No. 3 and recorded in Book 1884 of Page 382 of the El Paso County records, said point being 5.00 feet Northwesterly of the Easternmost corner of the aforesaid tract; thence along and identified with the Northwesterly boundary of said tract, N 31°34'15"W, a distance of 45.00 feet; thence along a curve to the right whose radius is 803.18 feet and whose central angle is 31°34'15"; on arc distance of 442.56 feet; thence along the tangent produced, N 0°00'00"E, a distance of 106.39 feet; thence N 90°00'00"E, a distance of 310.00 feet; thence S 0°00'00"E, a distance of 461.88 feet; thence S 58°25'45"W, a distance of 196.67 feet to the point of beginning, containing an area of 3.329 acres more or less.

AND BEING the same property conveyed to Widefield School District No. 3 from Fred C. Spaul Homes, Inc., a Colorado corporation by Warranty Deed dated September 24, 1965 and recorded October 21, 1965 in Deed Book 2099, Page 682.

Said interest being over land more particularly described by the following description:  
Situating in the City of Colorado Springs, County of El Paso and State of Colorado; Known as being a 2,500 square foot Lease Area over and upon a parcel of land now or formerly conveyed to Widefield School District No. 3 as recorded in Book 2099, Page 682 of El Paso county records and situated in the East half of the Southwest Quarter of Section 12, Township 15 South, Range 66 West of the 6th Principal Meridian and being more particularly described as follows:

Commencing at a found and used iron pipe situated on the prolongation of the terminus line of Hackberry Drive (a 50' public right of way) (for reference see only: travel along the aforesaid prolonged line South 31°31'02" East a distance of 5.00 feet to a point situated on the northerly margin of the aforesaid Hackberry Drive); thence North 02°55'26" East a distance of 125.96 feet to a point; 2) South 03°24'00" West a distance of 50.00 feet to a point; 3) North 03°24'00" East a distance of 50.00 feet to a point; 4) North 86°36'00" West a distance of 50.00 feet to the Point of Beginning; Containing 2,500 square feet or 0.0574 acres, more or less.

FIDELITY NATIONAL TITLE INSURANCE COMPANY  
COMMITMENT NO. 16085920 - SCHEDULE B, SECTION II:

11. Right-of-Way and Utility Easement in favor of Clear Wireless LLC, a Nevada limited liability company set forth in instrument recorded on 07/20/2011 in instrument No. 211693798. (DOES NOT AFFECT THE SUBJECT PROPERTY OR LEASE AREA.)

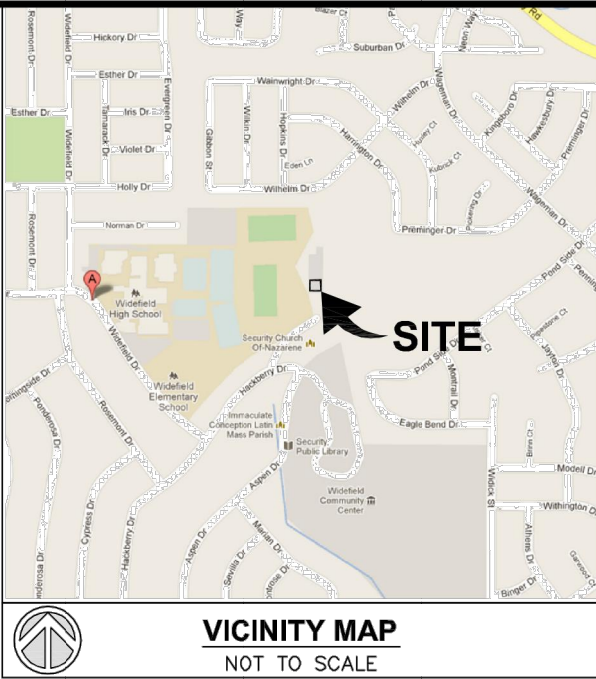
LEASE AREA

Situating in the City of Colorado Springs, County of El Paso and State of Colorado; Known as being a 2,500 square foot Lease Area over and upon a parcel of land now or formerly conveyed to Widefield School District No. 3 as recorded in Book 2099, Page 682 of El Paso county records and situated in the East half of the Southwest Quarter of Section 12, Township 15 South, Range 66 West of the 6th principal Meridian and being more particularly described as follows:

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FLOOD ZONE:

By scaled map location and graphic plotting only, the subject property appears to lie entirely in Zone X-Unshaded (Areas determined to be outside the 0.2% annual chance floodplain.) according to the Flood Insurance Rate Map for the County of El Paso, Community Panel No. 080806 0763F, Effective Date March 17, 1997.



SYMBOL LEGEND	
R/W	Right-of-Way
P/L	Adjacent Property Line
C	Centerline
P.O.B.	Place/Point of Beginning
P.O.C.	Place/Point of Commencement
(X)	Schedule B-Section II Item
Rad	Radius
Arc	Arc Length
Δ	Delta Angle
ChL	Chord Length
ChB	Chord Bearing
Calc.	Calculated
Meas.	Measured
Dead	Dead
(Record)	Actual
N.R.D.	No Recorded Distance
•	Monumentation Found as Noted
H	Electric Meter
---	Wall (As Noted)
⊙	Utility Pole
---	Fence (As Noted)
---	Overhead Utilities
▨	Building Area

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Hudson, OH 44236  
Phone: 800-520-1010  
Fax: 330-342-0834  
www.millmansurveying.com

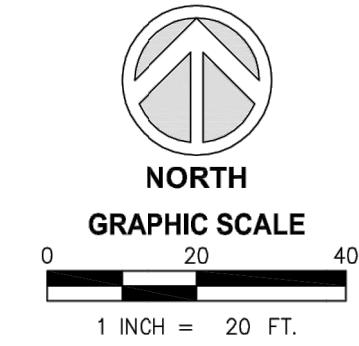
ALTA/ACSM LAND TITLE  
SURVEY PREPARED FOR:

PDC  
CORPORATION

13225 Danielson Street  
Suite 200  
Poway, CA, 92064  
Phone: 858-668-2828

millman  
virtuasurveyor  
for more information  
visit <http://vimeo.com/25774136>

CO-5100  
Widefield High School  
645 Widefield Drive  
City of Colorado Springs  
County of El Paso  
State of Colorado



Surveyor's Seal

Sheet No. **1** of **1**

MSI Project No. 28074

PM: MR Drafter: MR

REVISION HISTORY	
BY:	DATE:
MR	4.11.13
MR	4.15.13

CERTIFICATION:

I, James M. McNeely, PLS, a Colorado State Registered Professional Land Surveyor, License No. 20692, hereby certify that the following Latitude and Longitude values for the center of the above-referenced tower are accurate to within +/- 15 feet horizontally; and that the following tower site elevation is accurate to within +/- 3 feet vertically:

HORIZONTAL DATUM: NAD83

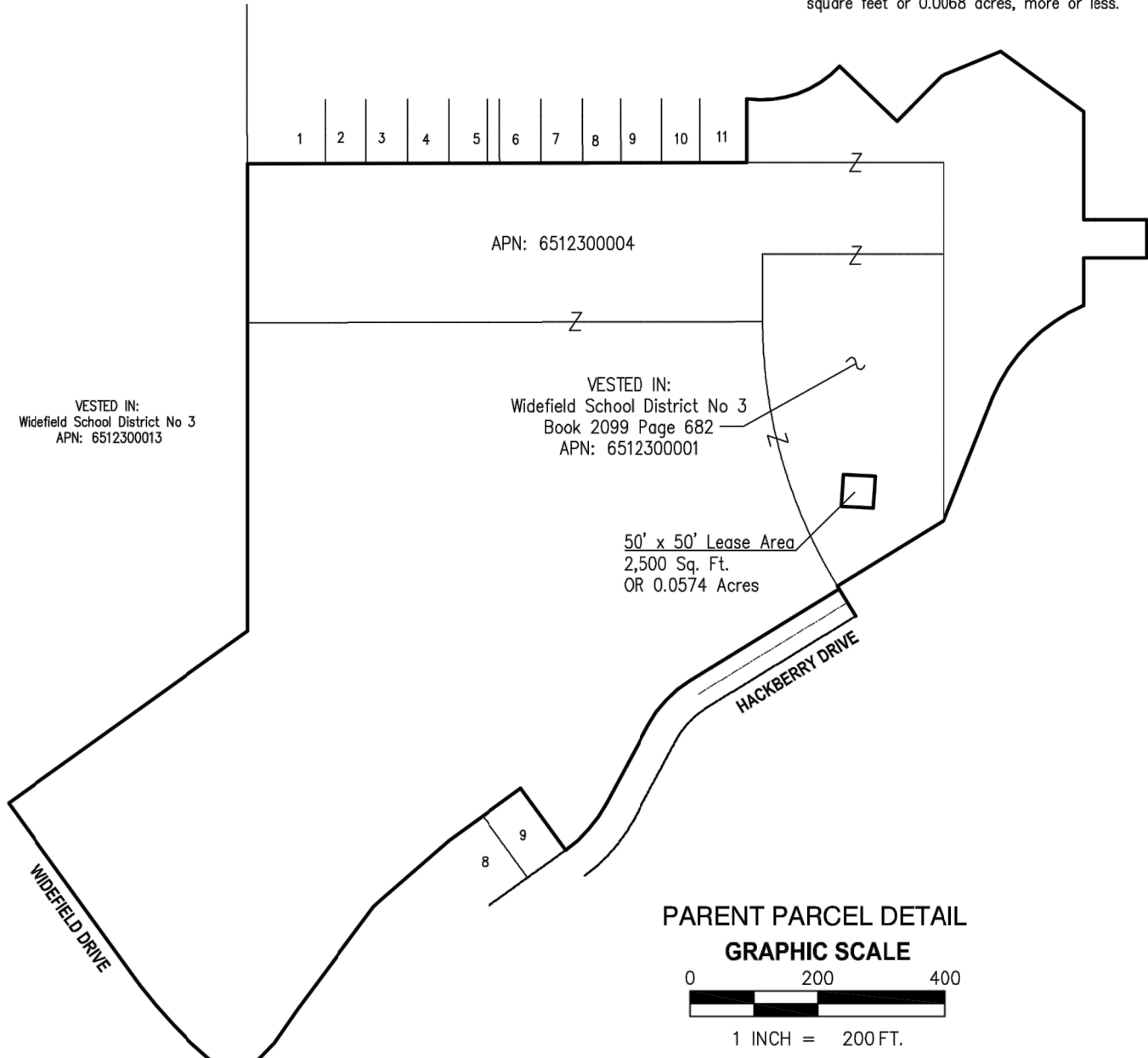
LATITUDE: North 38° 45' 17.36"

LONGITUDE: West 104° 43' 49.95"

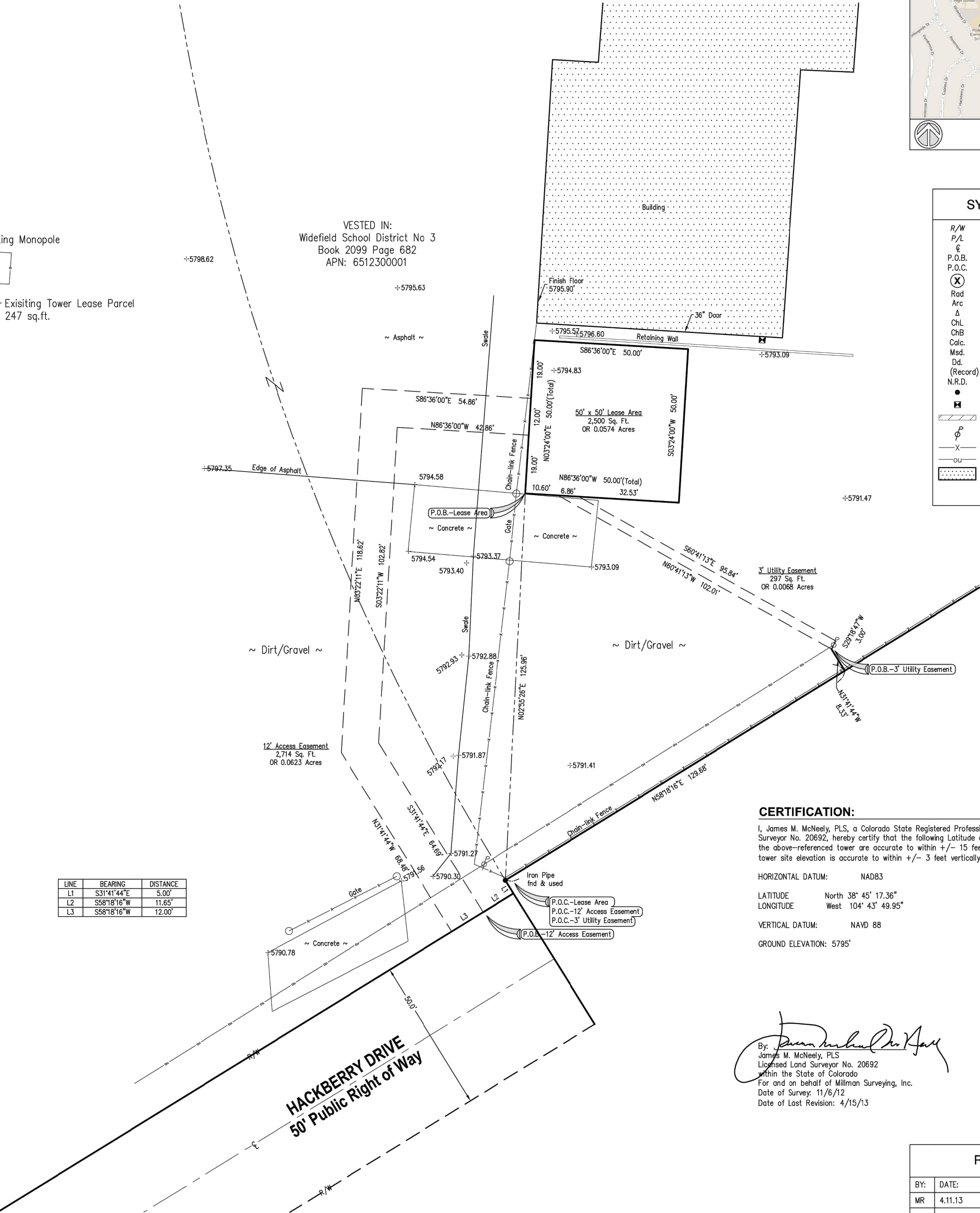
VERTICAL DATUM: NAVD 88

GROUND ELEVATION: 5795'

By: *James M. McNeely*  
James M. McNeely, PLS  
Licensed Land Surveyor No. 20692  
within the State of Colorado  
For and on behalf of Millman Surveying, Inc.  
Date of Survey: 11/6/12  
Date of Last Revision: 4/15/13



LINE	BEARING	DISTANCE
L1	S31°41'44"E	5.00'
L2	S58°18'16"W	11.65'
L3	S58°18'16"W	12.00'



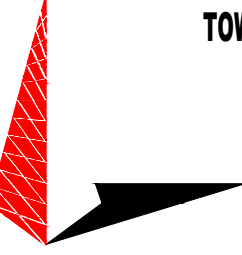
SITE SURVEY



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AT&T SITE ID: COL02205  
AT&T FA CODE: 15312479  
AT&T PACE #: MRUTH042458  
ATC #: 370609  
WIDEFIELD HIGH SCHOOL II

523 WIDEFIELD ROAD  
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(EL PASO COUNTY)  
EXISTING 119'-0"  
MONOPOLE TOWER  
NSB - LTE - 1C/2C/3C/4C/  
5G NR 1SR

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SHEET TITLE:

SITE SURVEY

SHEET NUMBER:

C-1.1

REVISION:

C

TEP #:

177861.243634



NOTES:

1. THIS SITE PLAN REPRESENTS THE BEST PRESENT KNOWLEDGE AVAILABLE TO THE ENGINEER AT THE TIME OF THIS DESIGN. THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO CONSTRUCTION AND VERIFY ALL EXISTING CONDITIONS RELATED TO THE SCOPE OF WORK FOR THIS PROJECT.
2. ICE BRIDGE, CABLE LADDER, COAX PORT, AND COAX CABLE ARE SHOWN FOR REFERENCE ONLY. CONTRACTOR SHALL CONFIRM THE EXACT LOCATION OF ALL PROPOSED AND EXISTING EQUIPMENT AND STRUCTURES DEPICTED ON THIS PLAN. BEFORE UTILIZING EXISTING CABLE SUPPORTS, COAX PORTS, INSTALLING NEW PORTS OR ANY OTHER EQUIPMENT, CONTRACTOR SHALL VERIFY ALL ASPECTS OF THE COMPONENTS MEET THE ATC SPECIFICATIONS.
3. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE WITH THE AT&T REPRESENTATIVE AND LOCAL UTILITY COMPANY FOR THE INSTALLATION OF CONDUITS, CONDUCTORS, BREAKERS, DISCONNECTS, OR ANY OTHER EQUIPMENT REQUIRED FOR ELECTRICAL SERVICE. ALL ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH LATEST EDITION OF THE STATE AND NATIONAL CODES, ORDINANCES AND REGULATIONS APPLICABLE TO THIS PROJECT.
4. UTILITY COORDINATION PENDING.

EXISTING GRAVEL WITHIN COMPOUND

EXISTING CHAIN-LINK FENCED COMPOUND

EXISTING 12'-0" WIDE ACCESS GATE

PROPOSED DC-12 (TYP OF 2)

PROPOSED HANDHOLE BY AT&T

PROPOSED FIBER ROUTE BY AT&T TO EXISTING TELCO SERVICE. SEE SHEET E-4 FOR DETAILS.

EXISTING UTILITY RACK

PROPOSED UNDERGROUND ROUTING TO EXISTING TRANSFORMER. SEE NOTES, THIS SHEET.

PROPOSED METER TO BE INSTALLED IN EMPTY SOCKET ON EXISTING METER BANK

PROPOSED 2½" CONDUIT WITH (3) 3/0 AND (1) #6 GND FROM METER TO W.I.C.

PROPOSED 10'-0"x10'-0" W.I.C. ON A PROPOSED 12'-0"x12'-0" EQUIPMENT PAD BY AT&T. SEE SHEETS C-6 & C-9 FOR DETAILS.

PROPOSED 15'-0"x20'-0" LEASE AREA BY AT&T

PROPOSED (1) 4" TELCO CONDUIT W/ (3) 1-1/4" FLEX INTERDUCT & PULL STRING FOR FIBER STUBBED UP IN FIBER HANDHOLE. CONTRACTOR TO COORDINATE SERVICE WITH LOCAL TELEPHONE COMPANY

PROPOSED AC POWER PANEL BY AT&T

GRAVEL SURFACE

EXISTING 11'-6"x26'-0" EQUIPMENT SHELTER BY OTHERS

EXISTING 119'-0" MONOPOLE TOWER. SEE SHEET C-3 FOR ELEVATIONS.

PROPOSED AT&T ICE BRIDGE. SEE SHEET C-5 FOR DETAILS.

EXISTING ICE BRIDGE BY OTHERS (TYP)

PROPOSED 30KW GENERATOR BY AT&T. SEE SHEET C-7 FOR DETAILS.

PROPOSED 4'-0"x8'-0" GENERATOR PAD BY AT&T. SEE SHEET C-8 FOR DETAILS.

PROPOSED CTMS (TYP OF 4)

PROPOSED IVS

PROPOSED 2" CONDUIT FROM GENERATOR TO W.I.C. INSTALLED BY OEM (TYP OF 2)

EXISTING 8'-0"x8'-0" EQUIPMENT PLATFORM BY OTHERS

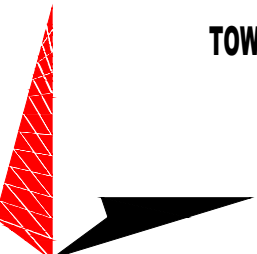


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SHEET TITLE:

COMPOUND DETAIL

SHEET NUMBER:

C-1.2

REVISION:

C

TEP #:

177861.243634

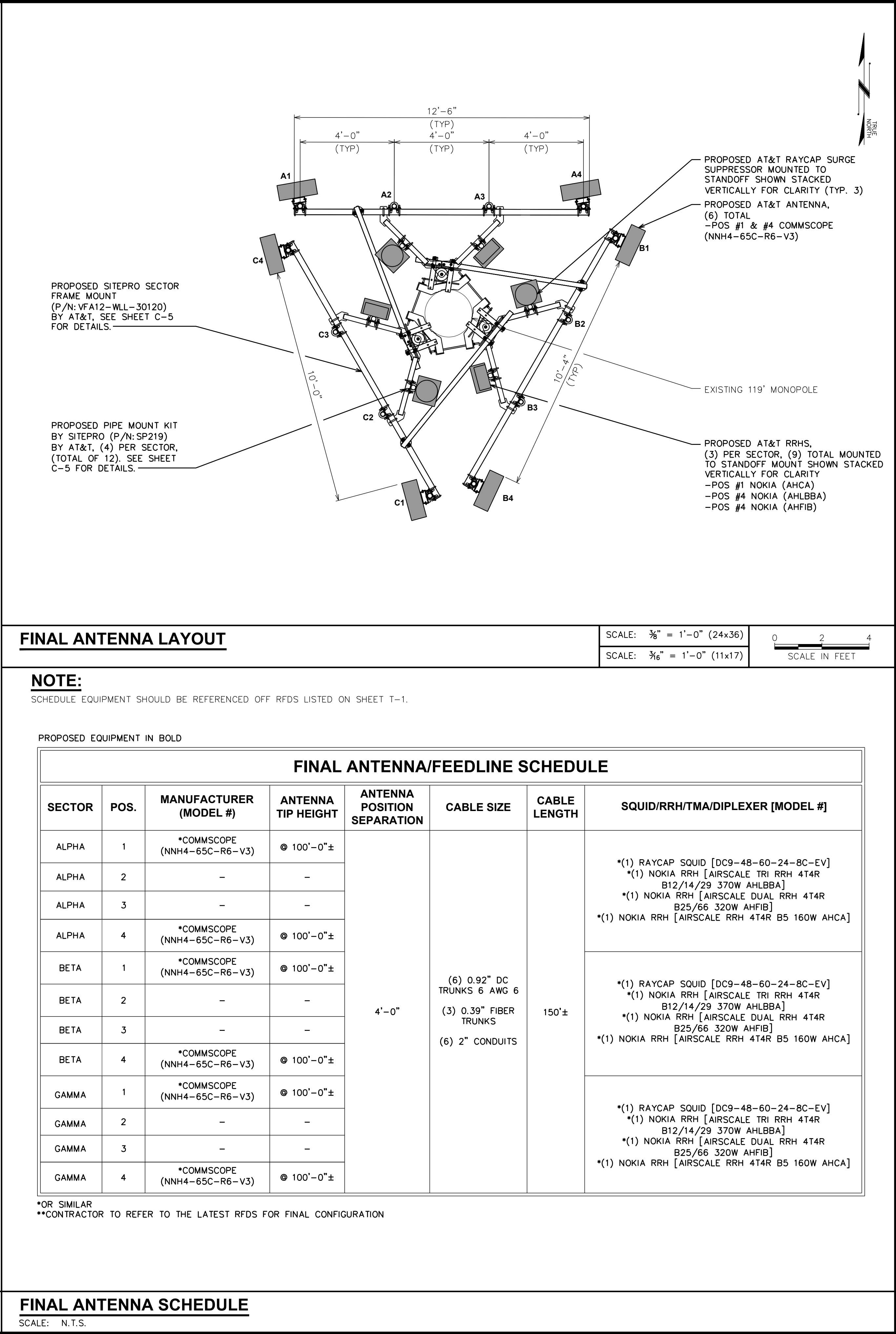
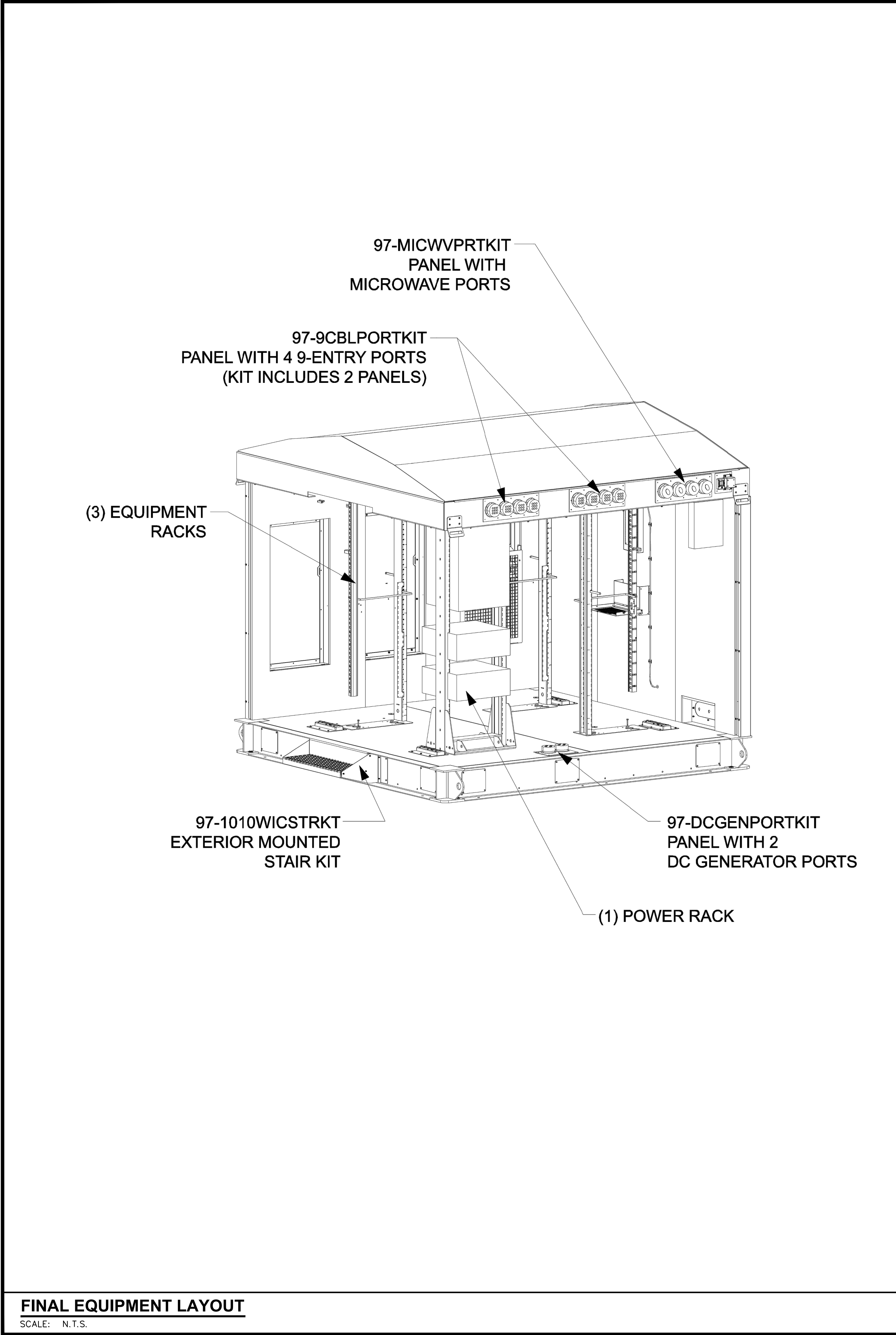
COMPOUND DETAIL

SCALE: 3/16" = 1'-0" (24x36)

SCALE: 3/32" = 1'-0" (11x17)

0 4 8  
SCALE IN FEET

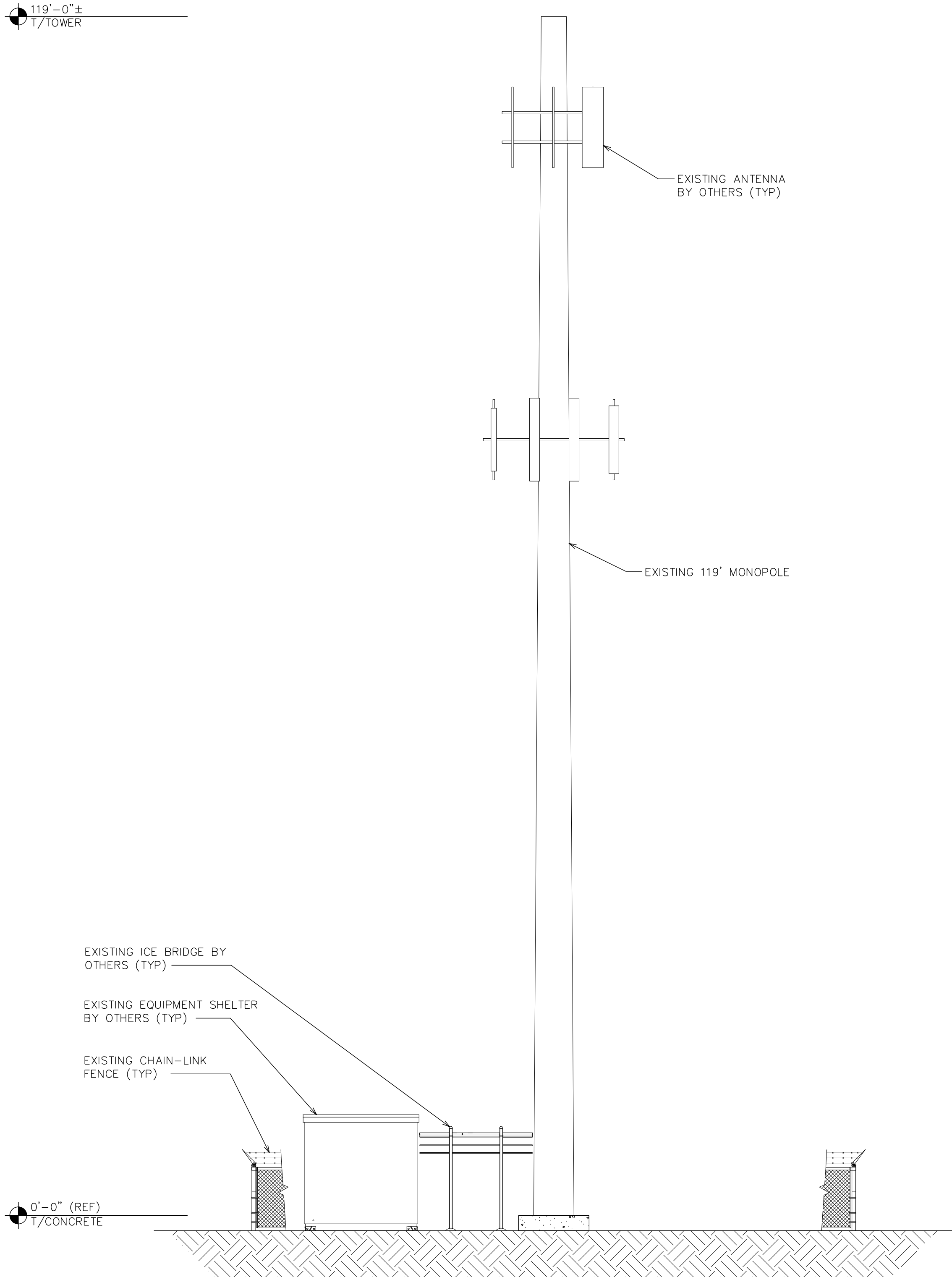






NOTE:

TOWER ELEVATION IS FOR SCHEMATIC PURPOSES ONLY. TEP DID NOT CONFIRM EXISTING SITE CONDITIONS INCLUDING, BUT NOT LIMITED TO ANTENNA HEIGHTS, ANTENNA AZIMUTHS, AND MOUNT CONFIGURATIONS.



EXISTING TOWER ELEVATION

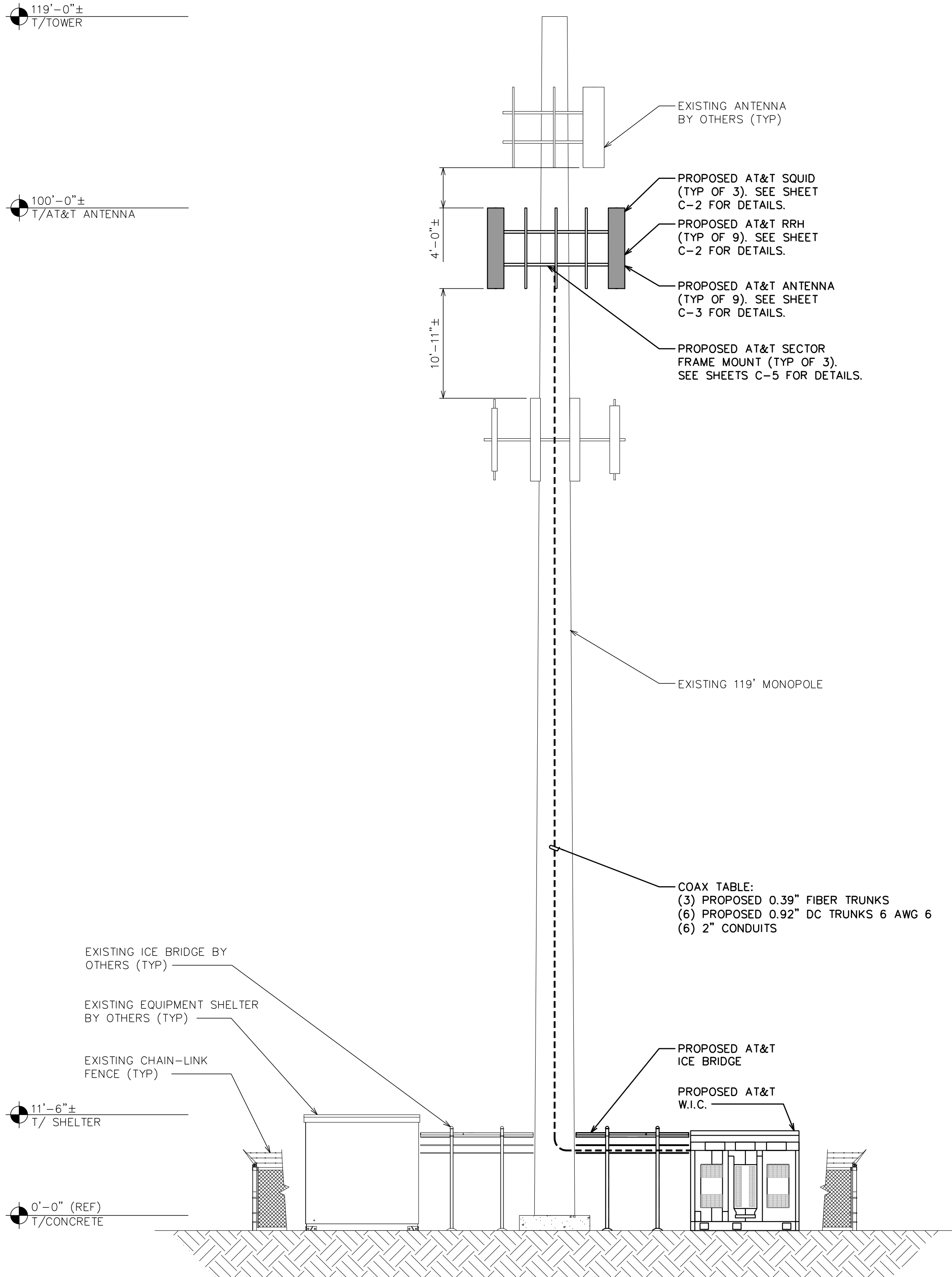
SCALE: 1/8" = 1'-0" (24x36)

SCALE: 1/16" = 1'-0" (11x17)



NOTES:

1. PROPOSED CABLES TO BE ROUTED PER SPECIFICATIONS OF PASSING STRUCTURAL ANALYSIS.
2. TOWER ELEVATION IS FOR SCHEMATIC PURPOSES ONLY. TEP DID NOT CONFIRM EXISTING SITE CONDITIONS INCLUDING, BUT NOT LIMITED TO ANTENNA HEIGHTS, ANTENNA AZIMUTHS, AND MOUNT CONFIGURATIONS.
3. CONTRACTOR TO VERIFY PROPOSED LOADING WITH PASSING STRUCTURAL ANALYSIS PRIOR TO CONSTRUCTION. CONTRACTOR TO CONTACT AT&T OR AMERICAN TOWER CORPORATION IMMEDIATELY IN THE EVENT OF ANY DISCREPANCIES.



FINAL TOWER ELEVATION

SCALE: 1/8" = 1'-0" (24x36)

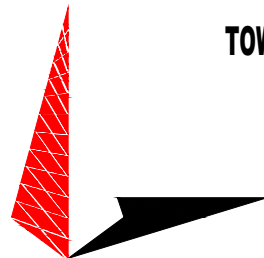
SCALE: 1/16" = 1'-0" (11x17)



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SHEET TITLE:

EXISTING AND  
FINAL ELEVATIONS

SHEET NUMBER:

C-3

REVISION:

C

TEP #:

177861.243634



Technical drawing of a proposed Commscope antenna showing three views: Front, Side, and Top.

- FRONT View:** A vertical rectangle with a height dimension of  $8'-0"$  and a width dimension of  $1'-7\frac{5}{8}"$ .
- SIDE View:** A vertical rectangle with a height dimension of  $8'-0\frac{1}{2}"$  and a width dimension of  $7\frac{3}{8}"$ . An arrow points from the text "PROPOSED COMMSCOPE ANTENNA (TYP OF 6)" to this view.
- TOP View:** A horizontal rectangle with a height dimension of  $7\frac{3}{8}"$  and a width dimension of  $1'-7\frac{5}{8}"$ .

Technical drawings of the proposed AHLBA RRH (Typ of 3) showing front, side, and top views with dimensions:

- FRONT:** Shows the front view of the unit with a height dimension of 24".
- SIDE:** Shows the side view of the unit with a depth dimension of 7.8".
- TOP:** Shows the top view of the unit with a width dimension of 14.1".

PROPOSED AHLBA  
RRH (TYP OF 3)

**FRONT**

22"

**SIDE**

5.9"

**TOP**

12.1"

PROPOSED AHFIB  
RRH (TYP OF 3)

**FRONT**

**SIDE**

**TOP**

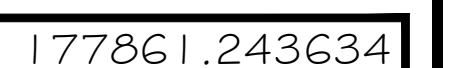
13.3"

6.5"

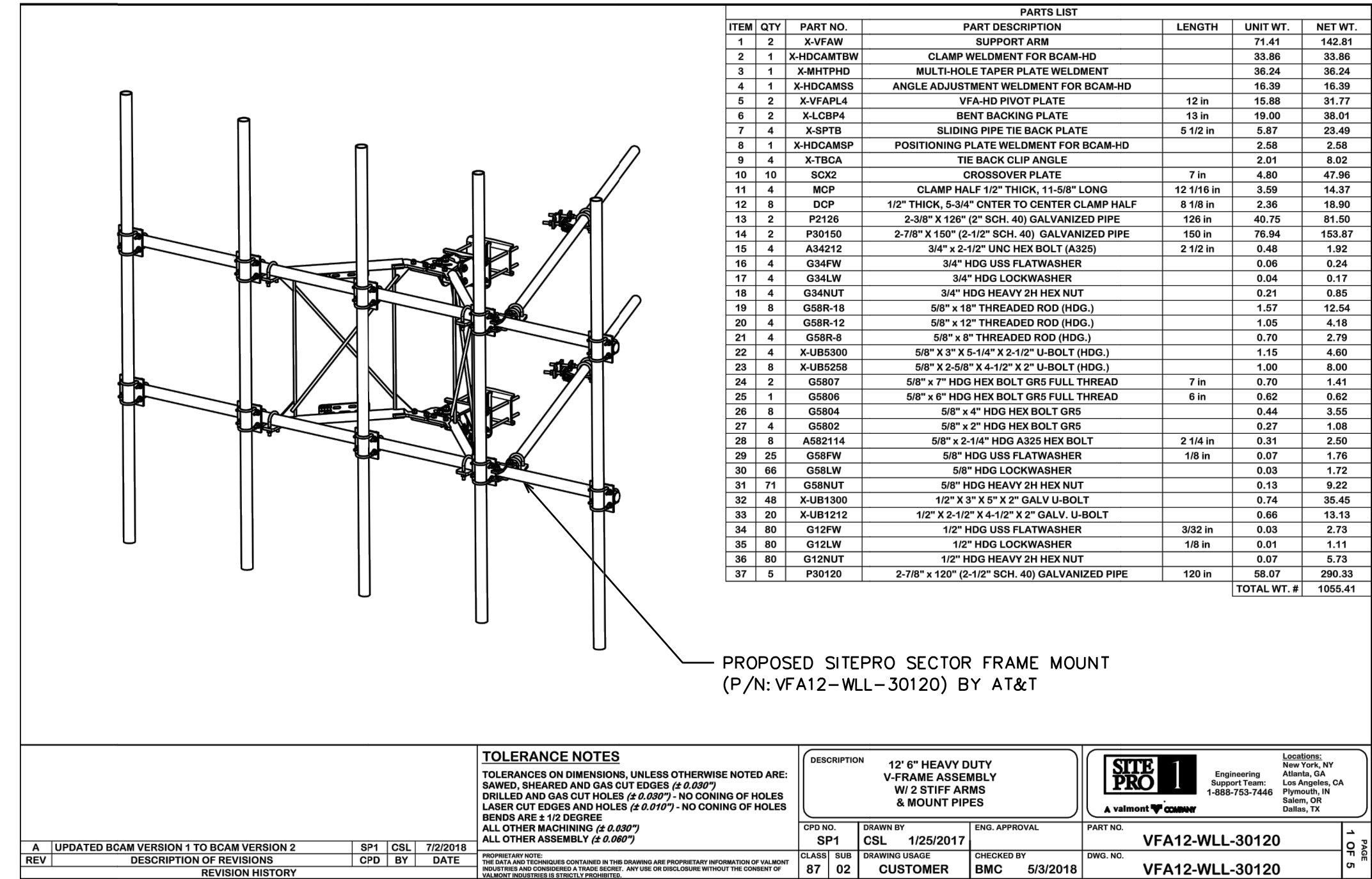
11.6"

PROPOSED AHCA  
RRH (TYP OF 3)

## SCALE: N.T.S.

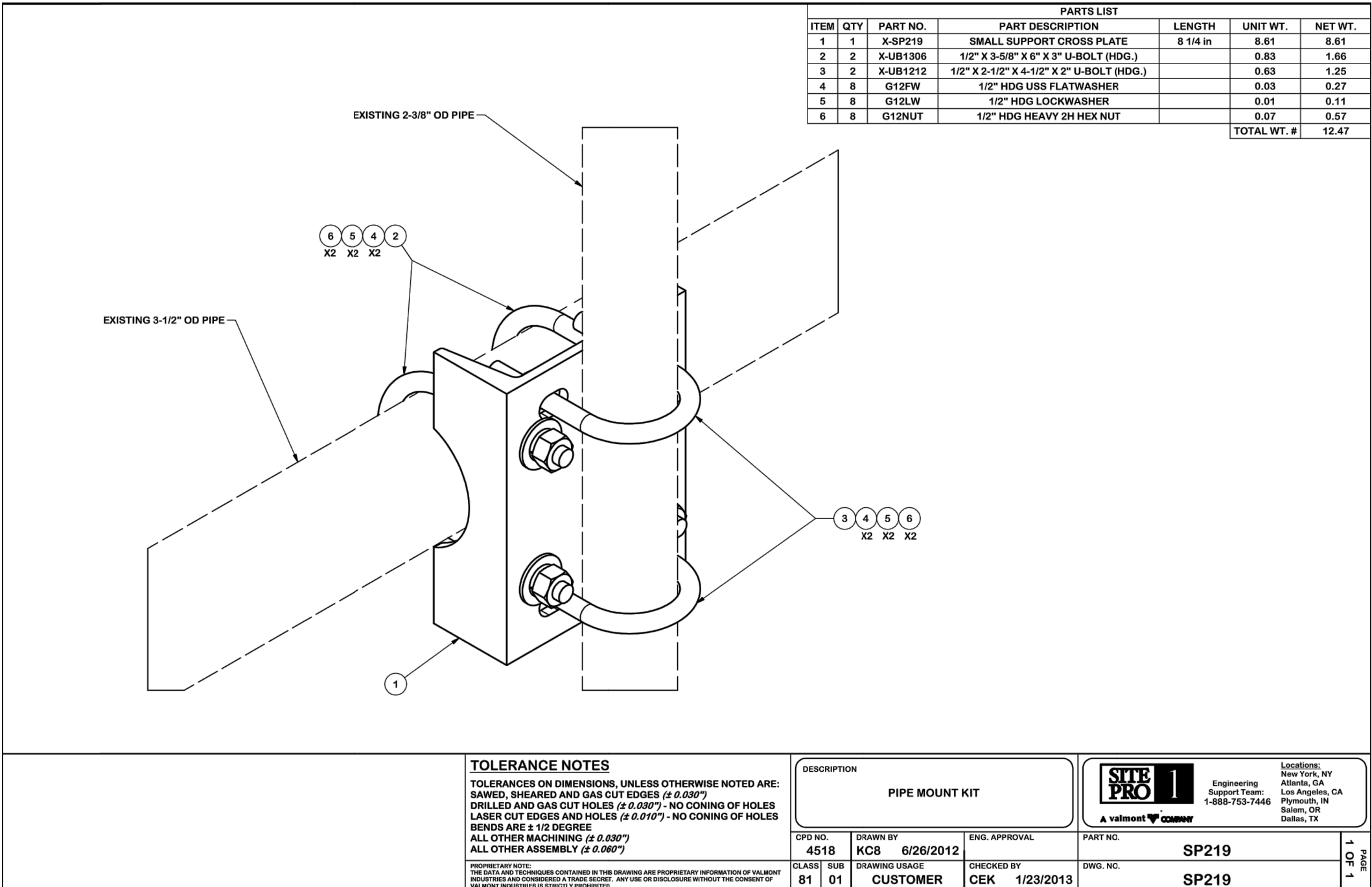






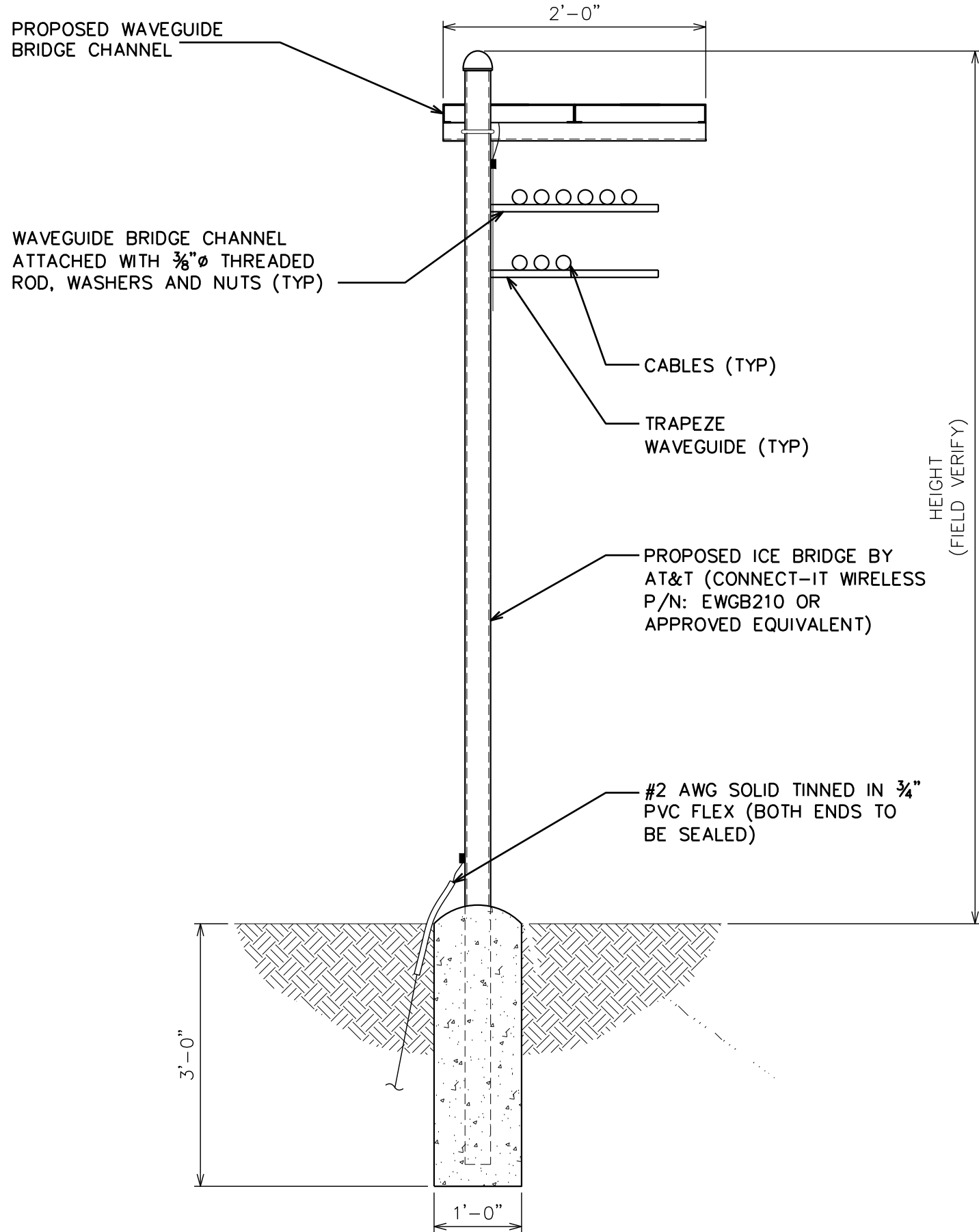
PROPOSED V-FRAME MOUNT DETAIL

SCALE: N.T.S.



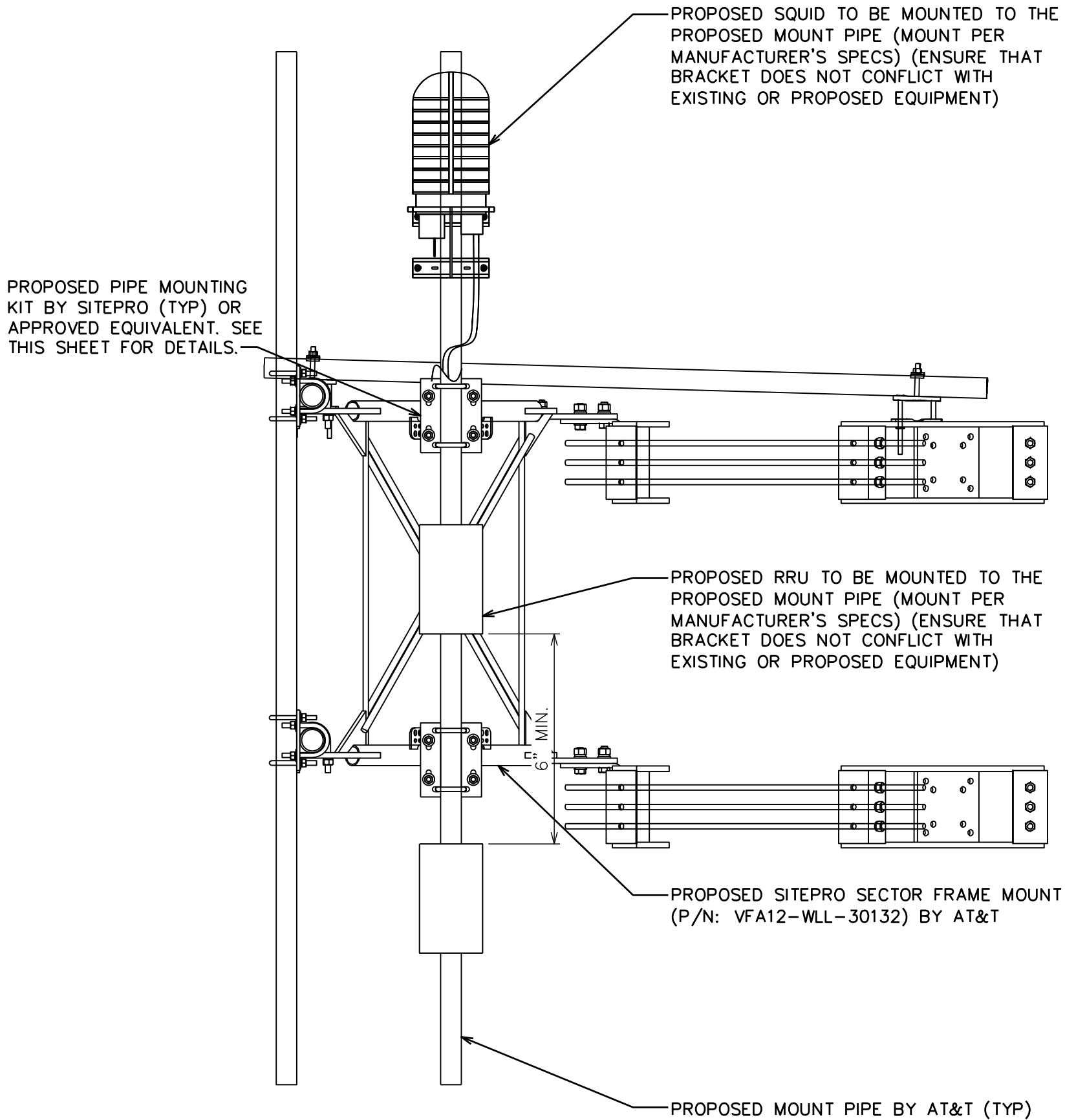
PROPOSED H-FRAME DETAIL

SCALE: N.T.S.



PROPOSED ICE BRIDGE DETAIL

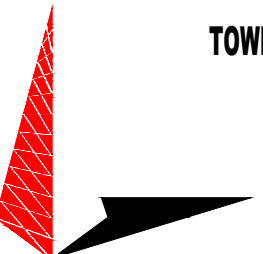
SCALE: N.T.S.



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TOWER ENGINEERING PROFESSIONALS  
4710 E ELWOOD ST, STE 9  
PHOENIX, AZ 85040  
OFFICE: (480) 285-0036  
www.tepgroup.net

AT&T SITE ID: COL02205  
AT&T FA CODE: 15312479  
AT&T PACE #: MRUTH042458  
ATC #: 370609  
WIDEFIELD HIGH SCHOOL II

523 WIDEFIELD ROAD  
COLORADO SPRINGS,  
CO 80911  
(EL PASO COUNTY)  
EXISTING 119'-0"  
MONOPOLE TOWER  
NSB - LTE - 1C/2C/3C/4C/  
5G NR 1SR

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	QA
A	11-23-20	KT	PRELIMINARY	EGG
B	12-14-20	SDD	90% CONSTRUCTION	EGG
C	02-18-21	CAK	90% CONSTRUCTION	EGG

SEAL:

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SHEET TITLE:

EQUIPMENT DETAILS

SHEET NUMBER:

C-5

REVISION:

C

TEP #:

177861.243634

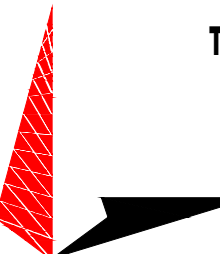




161 INVERNESS DR W, 2ND FLOOR  
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AMERICAN TOWER®  
19100 VON KARMAN AVE  
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#### SHEET TITLE:

WIC SHELTER DETAILS

#### SHEET NUMBER:

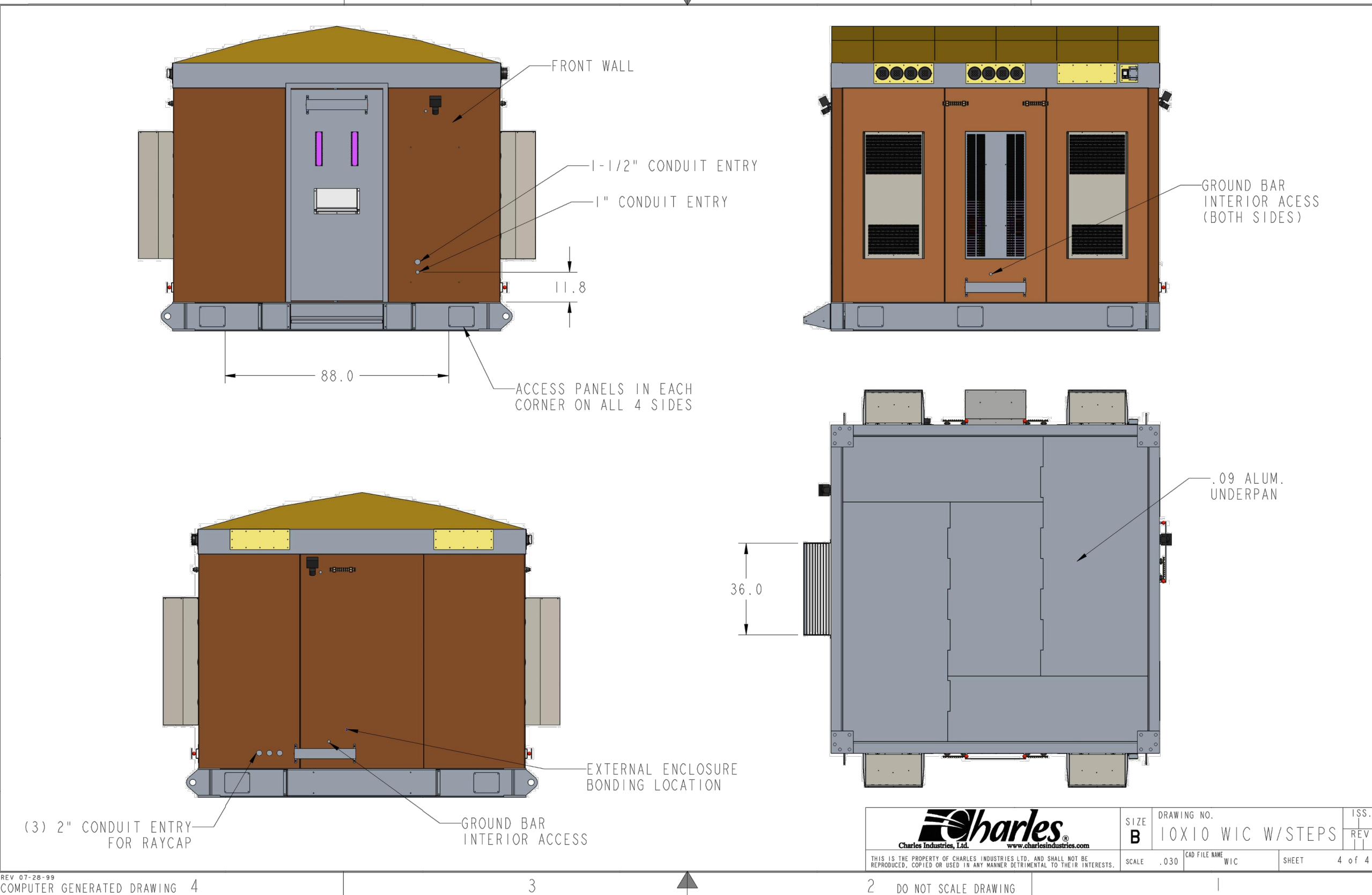
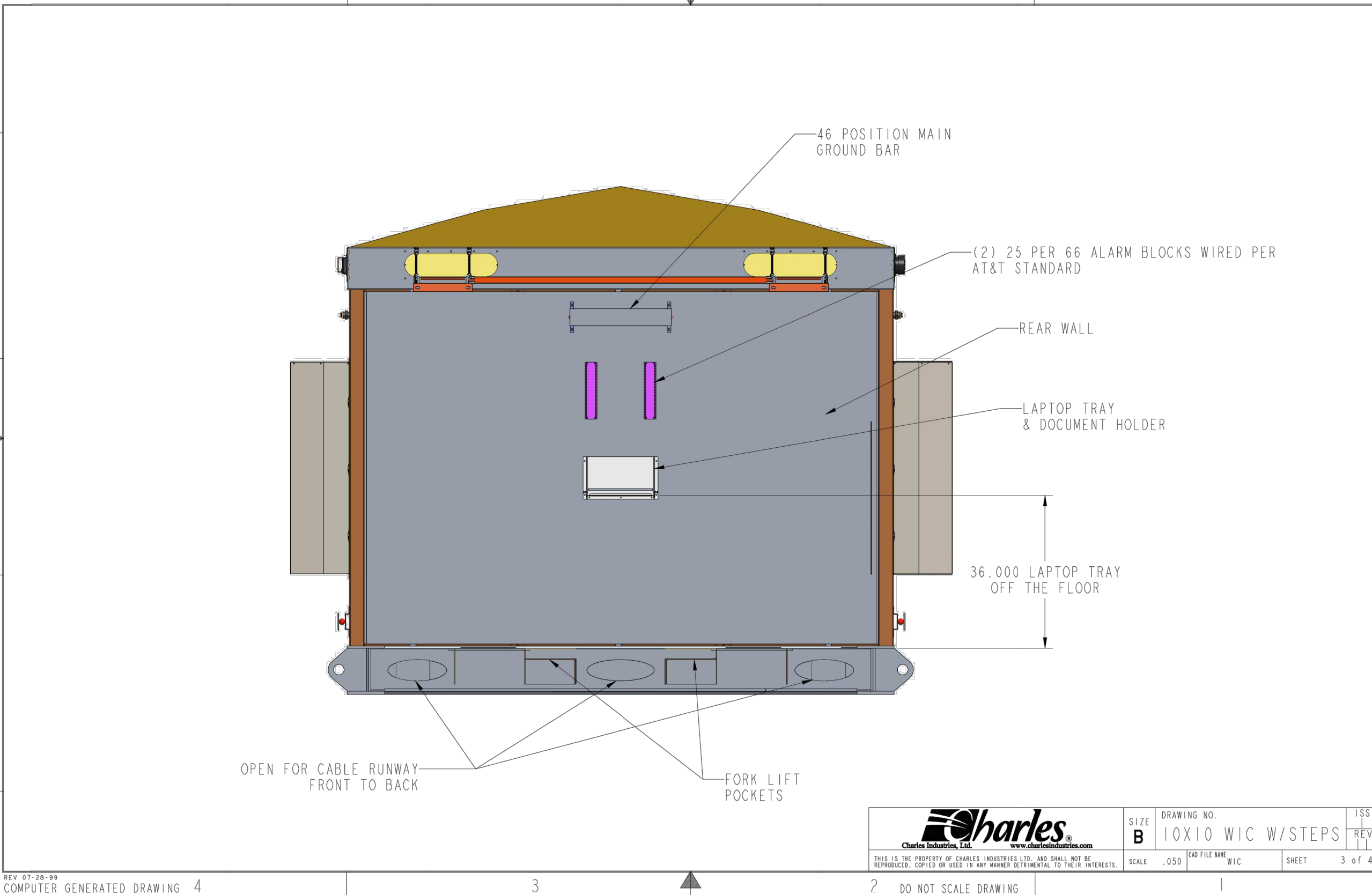
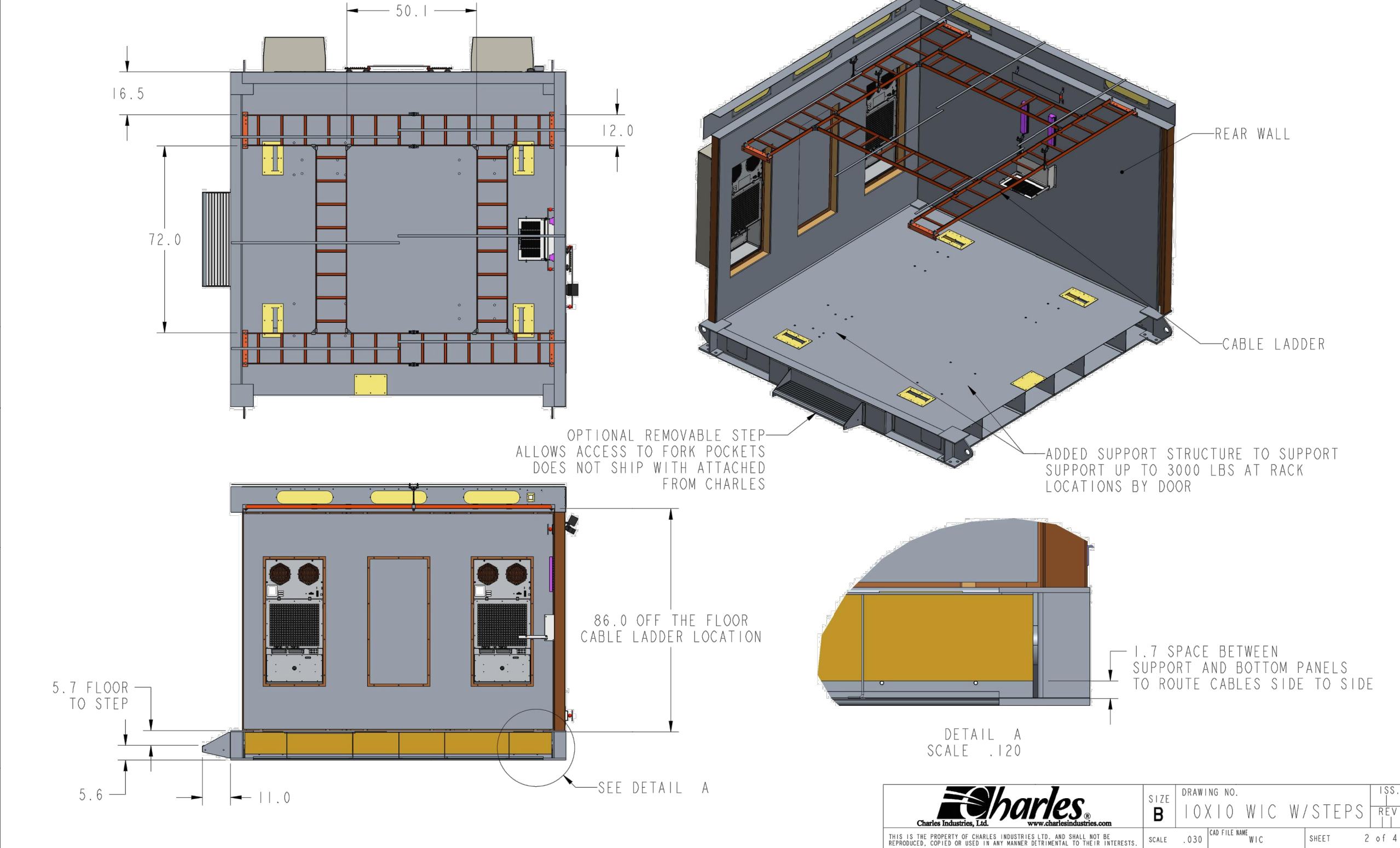
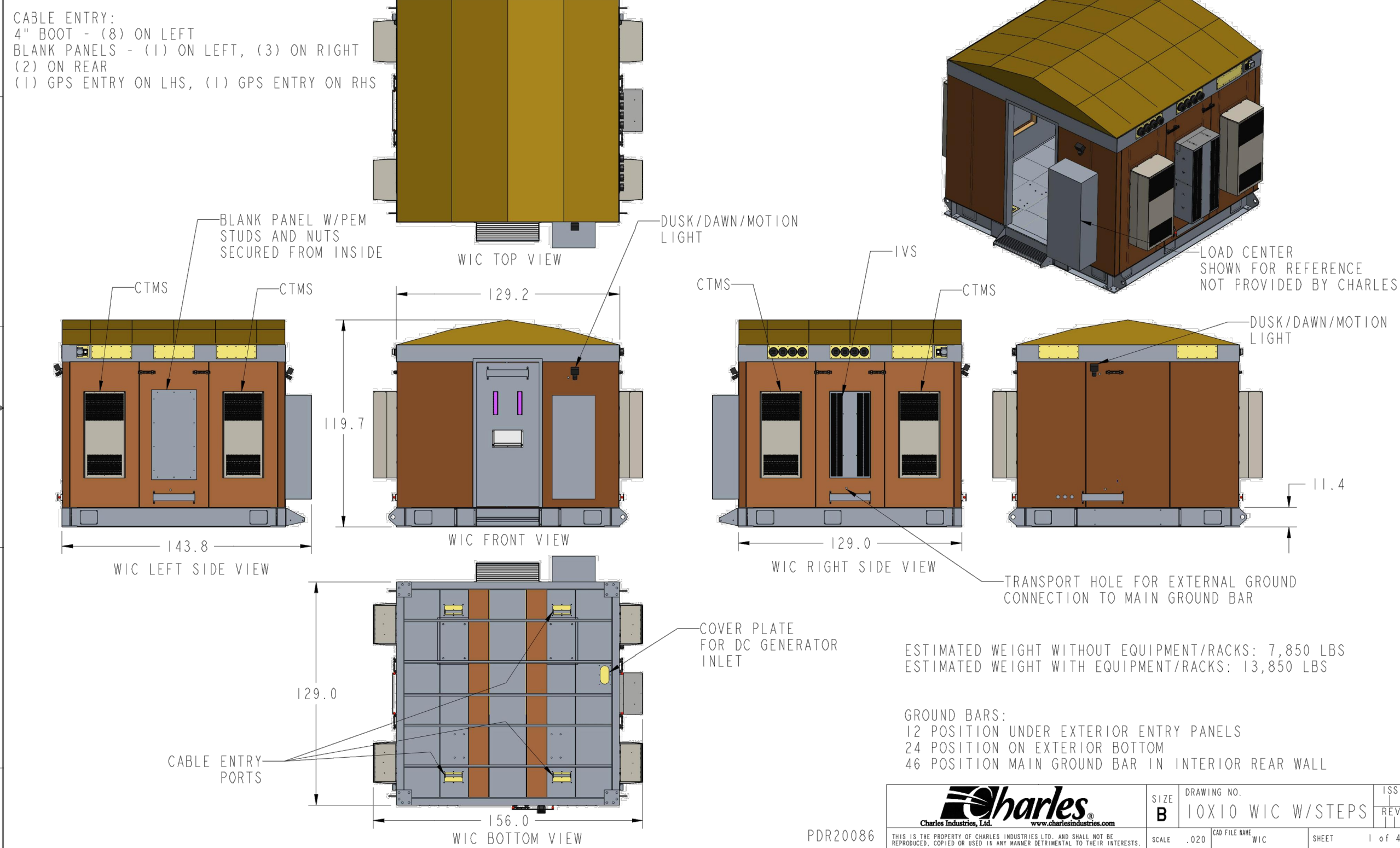
C-6

#### REVISION:

C

#### TEP #:

177861.243634



#### WIC SHELTER DETAIL

SCALE: N.T.S



SD030 | 2.2L | 30 kW  
INDUSTRIAL DIESEL GENERATOR SET  
EPA Certified Stationary Emergency

GENERAC INDUSTRIAL POWER

**Standby Power Rating**  
30 kW, 38 kVA, 60 Hz

**Prime Power Rating\***  
27 kW, 34 kVA, 60 Hz



\*EPA Certified Prime ratings are not available in the US or in Territories

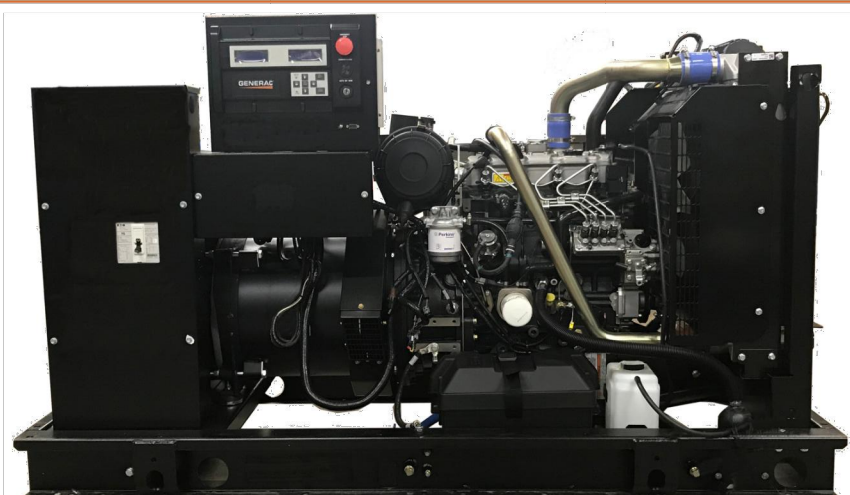


Image used for illustration purposes only

Codes and Standards

Not all codes and standards apply to all configurations. Contact factory for details.

	UL2200, UL508, UL489, UL142
	CSA C22.2
	BS5514 and DIN 8271
	SAE J1349
	NFPA 37, 70, 99, 110
	NEC700, 701, 702, 708
	ISO 3046, 7637, 8528, 9001
	NEMA ICS10, MG1, 250, ICS6, AB1
	ANSI C62.41

Powering Ahead

For over 50 years, Generac has provided innovative design and superior manufacturing.

Generac ensures superior quality by designing and manufacturing most of its generator components, including alternators, enclosures and base tanks, control systems and communications software.

Generac gensets utilize a wide variety of options, configurations and arrangements, allowing us to meet the standby power needs of practically every application.

Generac searched globally to ensure the most reliable engines power our generators. We choose only engines that have already been proven in heavy-duty industrial applications under adverse conditions.

Generac is committed to ensuring our customers' service support continues after their generator purchase.

SPEC SHEET  
1 of 6

SD030 | 2.2L | 30 kW  
INDUSTRIAL DIESEL GENERATOR SET  
EPA Certified Stationary Emergency

GENERAC INDUSTRIAL POWER

APPLICATION AND ENGINEERING DATA

ENGINE SPECIFICATIONS

General	Make EPA Emissions Compliance EPA Emissions Reference Cylinder # Type Displacement - in <sup>3</sup> (L) Bore - in (mm) Stroke - in (mm) Compression Ratio Intake Air Method Cylinder Head Piston Type Crankshaft Type	Perkins Stationary Emergency See Emission Data Sheet 4 In-Line 135 (2.22) 3.3 (84) 3.9 (100) 23.3:1 Turbocharged Cast Iron Aluminum Forged Steel
Engine Governing	Governor Frequency Regulation (Steady State)	Electronic Isochronous ±0.5%
Lubrication System	Oil Pump Type Oil Filter Type Crankcase Capacity - qt (L)	Full-Flow 12 (0.6) 11.2 (10.6)
Cooling System	Cooling System Type Water Pump Type Fan Type Fan Speed - RPM Fan Diameter - in (mm)	Closed Recovery Pre-Lubed, Self Sealing Pusher 1980 18 (457)
Fuel System	Fuel Type Fuel Specifications Fuel Filtration (Microns) Fuel Inject Pump Fuel Pump Type Injector Type Fuel Supply Line - in (mm) Fuel Return Line - in (mm)	Ultra Low Sulfur Diesel Fuel #2 ASTM 5 Distribution Injection Pump Engine Driven Gear Mechanical 0.31 (7.9) ID 0.2 (4.8) ID
Engine Electrical System	System Voltage Battery Charger Alternator Battery Size Battery Voltage Ground Polarity	12 VDC Standard See Battery Index 016197058Y 12 VDC Negative

ALTERNATOR SPECIFICATIONS

Standard Model Poles Field Type Insulation Class - Rotor Insulation Class - Stator Total Harmonic Distortion Telephone Interference Factor (TIF)	K0035124Y21 4 Revolving H H ≤5% (3-Phase) ≤ 50
Standard Excitation Bearings Cooling Load Capacity - Standby Prototype Short Circuit Test Voltage Regulator Type Number of Sensed Phases Regulation Accuracy (Steady State)	Brushless Single Sealed Direct Vile Flexible Disc 100% Yes Digital All ±0.25%

SPEC SHEET  
4 of 6

SD030 | 2.2L | 30 kW  
INDUSTRIAL DIESEL GENERATOR SET  
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GENERAC INDUSTRIAL POWER

STANDARD FEATURES

ENGINE SYSTEM

- Oil Drain Extension
- Air Cleaner
- Fan Guard
- Stainless Steel Flexible Exhaust Connection
- Factory Filled Oil and Coolant
- Radiator Duct Adapter (Open Set Only)
- Critical Silencer (Enclosed Unit Only)
- Engine Coolant Heater

Fuel System

- Fuel Lockoff Solenoid
- Primary Fuel Filter

Cooling System

- Closed Coolant Recovery System
- UV/Ozone Resistant Hoses
- Factory-Installed Radiator
- Radiator Drain Extension
- 50/50 Ethylene Glycol Antifreeze

Electrical System

- Battery Charging Alternator
- Battery Cables
- Battery Tray
- Rubber-Booted Engine Electrical Connections
- Solenoid Activated Starter Motor

ALTERNATOR SYSTEM

- UL2200 GENprotect™
- Class H Insulation Material
- 2/3 Pitch
- Shrouded Stator
- Brushless Excitation
- Sealed Bearing
- Rotor Dynamically Spin Balanced
- Stainless Steel Lift Off Door Hinges
- Full Load Capacity Alternator
- Protective Thermal Switch

GENERATOR SET

- Internal Genset Vibration Isolation
- Separation of Circuits - High/Low Voltage
- Separation of Circuits - Multiple Breakers
- Wrapped Exhaust Piping
- Standard Factory Testing
- 2 Year Limited Warranty (Standby Rated Units)
- 1 Year Limited Warranty (Prime Rated Units)
- Silencer Mounted in the Discharge Hood (Enclosed Unit Only)

ENCLOSURE (If Selected)

- Rust-Proof Fasteners with Nylon Washers to Protect Finish
- High Performance Sound-Absorbing Material (Sound Attenuation Enclosures)
- Gasketed Doors
- Slanted Air-Intake Louvers
- Upward Facing Discharge Hoods (Radiator and Exhaust)
- Armoured Winding (3-Phase Only)
- Stainless Steel Lockable Handles
- RhinoCoat™ - Textured Polyester Powder Coat Paint

FUEL TANKS (If Selected)

- UL 142ULC SS01
- Double Wall
- Normal and Emergency Vents
- Sloped Top
- Sloped Bottom
- Factory Pressure Tested
- Rupture Basin Alarm
- Fuel Level
- Check Valve in Supply and Return Lines
- RhinoCoat™ - Textured Polyester Powder Coat Paint
- Stainless Steel Hardware

CONTROL SYSTEM



Digital H Control Panel- Dual 4x20 Display

Program Functions

- Programmable Crank Limiter
- 7-Day Programmable Exerciser
- Special Applications Programmable Logic Controller
- RS-232/485 Communications
- All Phase Sensing Digital Voltage Regulator
- 2-Wire Start Capability
- Date/Time Fault History (Event Log)
- Isynchronous Governor Control
- Waterproof/Sealed Connectors

ALTERNATOR SYSTEM

- Audible Alarms and Shutdowns
- Not in Auto (Flashing Light)
- Auto/Off/Manual Switch
- E-Stop (Red Mushroom-Type)
- NFPA110 Level I and II (Programmable)
- Customizable Alarms, Warnings, and Events
- Modbus® Protocol
- Predictive Maintenance Algorithm
- Sealed Boards
- Password Parameter Adjustment Protection
- Single Point Ground
- 16 Channel Remote Trending
- 0.2 msec High Speed Remote Trending
- Alarms and Warnings Time and Date Stamped
- Snap Shots of Key Operation Parameters During Alarms and Warnings
- Alarms and Warnings Spelled Out (No Alarm Codes)

Full System Status Display

- Power Output (kW)
- Power Factor
- kW Hours, Total, and Last Run
- Real/Reactive/Apparent Power
- All Phase AC Voltage
- All Phase Currents

SPEC SHEET  
2 of 6

SD030 | 2.2L | 30 kW  
INDUSTRIAL DIESEL GENERATOR SET  
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GENERAC INDUSTRIAL POWER

CONFIGURABLE OPTIONS

ENGINE SYSTEM

- Oil Heater
- Critical Silencer (Open Set Only)
- Radiator Stone Guard
- Level 1 Fan and Belt Guards (Open Set Only)

FUEL SYSTEM

- NPT Flexible Fuel Line
- 10A UL Listed Battery Charger
- Battery Warmer

ELECTRICAL SYSTEM

- 10A UL Listed Battery Charger
- Battery Warmer

ALTERNATOR SYSTEM

- Alternator Upgrading
- Air-Condensation Heater
- Tropical Coating
- Permanent Magnet Excitation

GENERATOR SET

- Extended Factory Testing
- 8 Position Load Center
- Pad Vibration Isolation

CIRCUIT BREAKER OPTIONS

- Main Line Circuit Breaker
- 2nd Main Line Circuit Breaker
- Shunt Trip and Auxiliary Contact
- Electronic Trip Breakers

ENCLOSURE

- Weather Protected Enclosure
- Level 1 Sound Attenuation
- Level 2 Sound Attenuation
- Level 2 Sound Attenuation with Motorized Dampers
- Steel Enclosure
- Up to 200 MPH Wind Load Rating (Contact Factory for Availability)
- AC/DC Enclosure Lighting Kit
- Door Alarm Switch
- Enclosure Heater
- Damper Alarm Contacts

WARRANTY (Standby Gensets Only)

- 2 Year Extended Limited Warranty
- 5 Year Limited Warranty
- 5 Year Extended Limited Warranty
- 10 Year Extended Limited Warranty

CONTROL SYSTEM

- NFPA 110 Compliant 21-Light Remote Annunciator
- Remote Relay Assembly (8 or 16)
- Oil Temperature Indication and Alarm
- Remote E-Stop (Break Glass-Type, Surface Mount)
- Remote E-Stop (Red Mushroom-Type, Surface Mount)
- Remote E-Stop (Red Mushroom-Type, Flush Mount)
- 100 dB Alarm Horn
- Ground Fault Annunciation
- 120V GFI and 240V Outlets
- Remote Communication - Modem
- 10A Engine Run Relay

FUEL TANKS (Size On Last Page)

- 8 in (203.2 mm) Fill Extension
- 13 in (330.2 mm) Fill Extension
- 19 in (482.6 mm) Fill Extension
- Overflow Protection Valve
- 5 Gallon Spill Box Return Hose
- 5 Gallon Spill Box
- Tank Risers
- Fuel Level Switch and Alarm
- 12" Vent System
- Fire Rated Stainless Steel Fuel Hose

ENGINEERED OPTIONS

ENGINE SYSTEM

- Coolant Heater Isolation Ball Valves
- Fluid Containment Pan

CONTROL SYSTEM

- Spare Inputs (x4) / Outputs (x4)
- Battery Disconnect Switch

ALTERNATOR SYSTEM

- 3rd Breaker System

GENERATOR SET

- Special Testing

FUEL TANKS

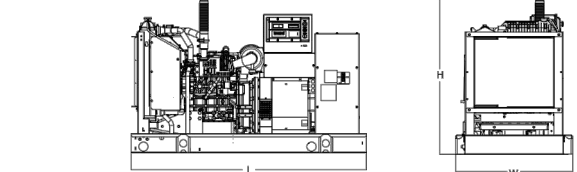
- UL2085 Tank
- Stainless Steel Tanks
- Special Fuel Tanks
- Vent Extensions

SPEC SHEET  
3 of 6

SD030 | 2.2L | 30 kW  
INDUSTRIAL DIESEL GENERATOR SET  
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GENERAC INDUSTRIAL POWER

DIMENSIONS AND WEIGHTS\*



OPEN SET (Includes Exhaust Flex)

Run Time - Hours	Usable Capacity - Gal (L)	L x W x H - in (mm)	Weight - lbs (kg)
No Tank	-	76.0 (1,930) x 37.4 (950) x 44.8 (1,138)	1,641 (745)
19	54 (204)	76.0 (1,930) x 37.4 (950) x 57.8 (1,468)	2,121 (963)
47	132 (501)	76.0 (1,930) x 37.4 (950) x 69.6 (1,773)	2,351 (1,067)
75	211 (799)	76.0 (1,930) x 37.4 (950) x 81.8 (2,078)	2,560 (1,162)
107	300 (1,136)	92.9 (2,360) x 37.4 (950) x 81.8 (2,078)	2,623 (1,190)

WEATHER PROTECTED ENCLOSURE

Run Time - Hours	Usable Capacity - Gal (L)	L x W x H - in (mm)	Weight - lbs (kg)
No Tank	-	94.8 (2,409) x 38.0 (965) x 49.5 (1,258)	372 (170)
19	54 (204)	94.8 (2,409) x 38.0 (965) x 62.5 (1,588)	505 (230)
47	132 (501)	94.8 (2,409) x 38.0 (965) x 74.5 (1,893)	575 (260)
75	211 (799)	94.8 (2,409) x 38.0 (965) x 86.5 (2,198)	625 (283)
107	300 (1,136)	94.8 (2,409) x 38.0 (965) x 98.5 (2,491)	675 (307)

LEVEL 1 ACOUSTIC ENCLOSURE

Run Time - Hours	Usable Capacity - Gal (L)	L x W x H - in (mm)	Weight - lbs (kg)
No Tank	-	112.5 (2,857) x 38.0 (965) x 49.5 (1,258)	505 (230)
19	54 (204)	112.5 (2,857) x 38.0 (965) x 62.5 (1,588)	625 (283)
47	132 (501)	112.5 (2,857) x 38.0 (965) x 74.5 (1,893)	675 (307)
75	211 (799)	112.5 (2,857) x 38.0 (965) x 86.5 (2,198)	725 (328)
107	300 (1,136)	112.5 (2,857) x 38.0 (965) x 98.5 (2,491)	775 (351)

LEVEL 2 ACOUSTIC ENCLOSURE

Run Time - Hours	Usable Capacity - Gal (L)	L x W x H - in (mm)	Weight - lbs (kg)
No Tank	-	94.8 (2,407) x 38.0 (965) x 61.1 (1,551)	510 (232)
19	54 (204)	94.8 (2,407) x 38.0 (965) x 74.1 (1,881)	625 (283)
47	132 (501)	94.8 (2,407) x 38.0 (965) x 86.1 (2,186)	675 (307)
75	211 (799)	94.8 (2,407) x 38.0 (965) x 98.1 (2,491)	725 (328)
107	300 (1,136)	94.8 (2,407) x 38.0 (965) x 110.1 (2,796)	775 (351)

\* All measurements are approximate and for estimation purposes only. Specification characteristics may change without notice. Please contact a Generac Power Systems Industrial Dealer for detailed installation drawings.

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P. (262) 544-6111 | ©2016 Generac Power Systems, Inc. All rights reserved. All specifications are subject to change without notice.

Part No. 10000024842  
Rev. B 08/27/18

SPEC SHEET  
4 of 6

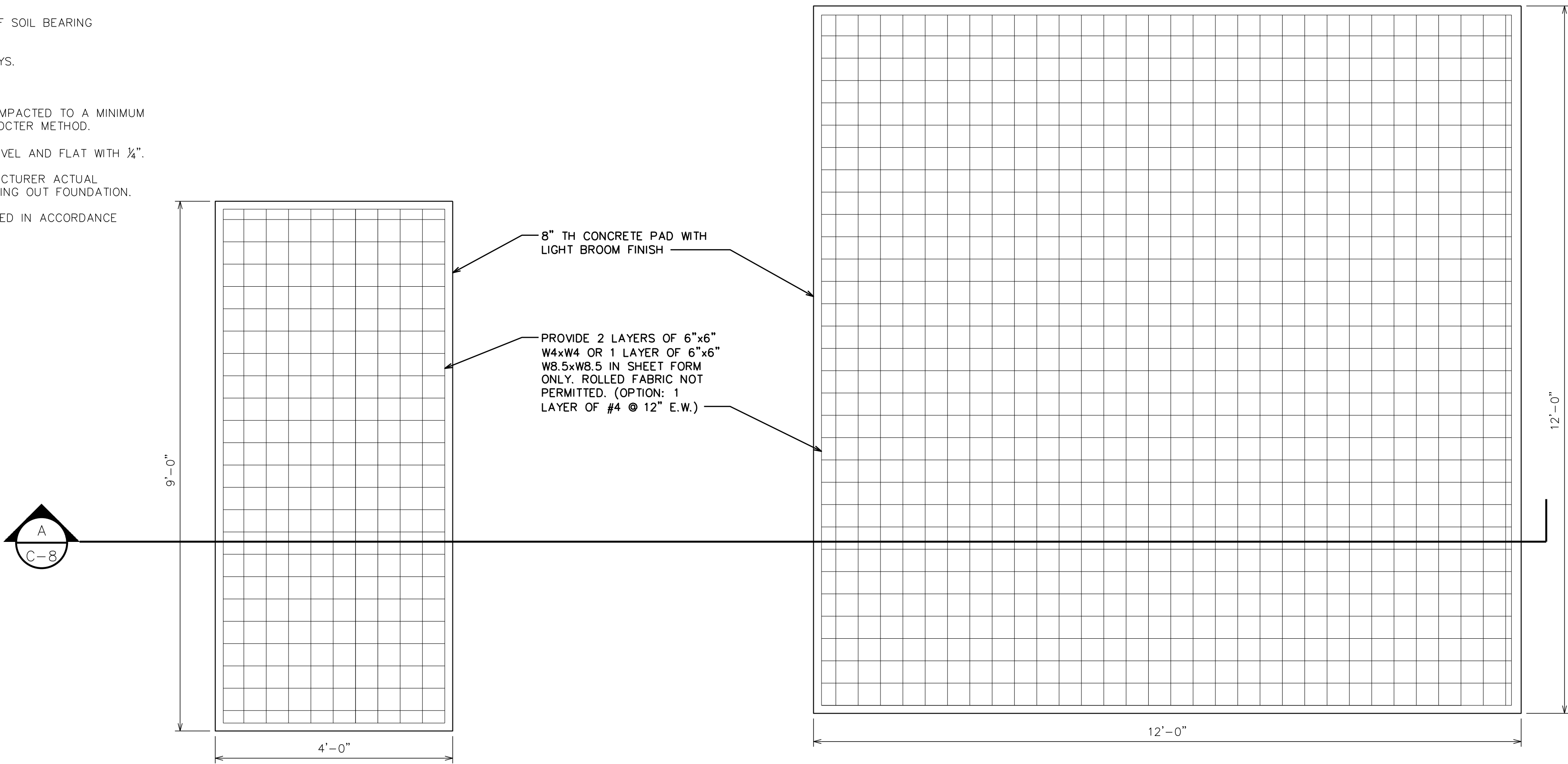
SD030 2.2L 30kW GENERATOR DETAILS

SCALE: N.T.S



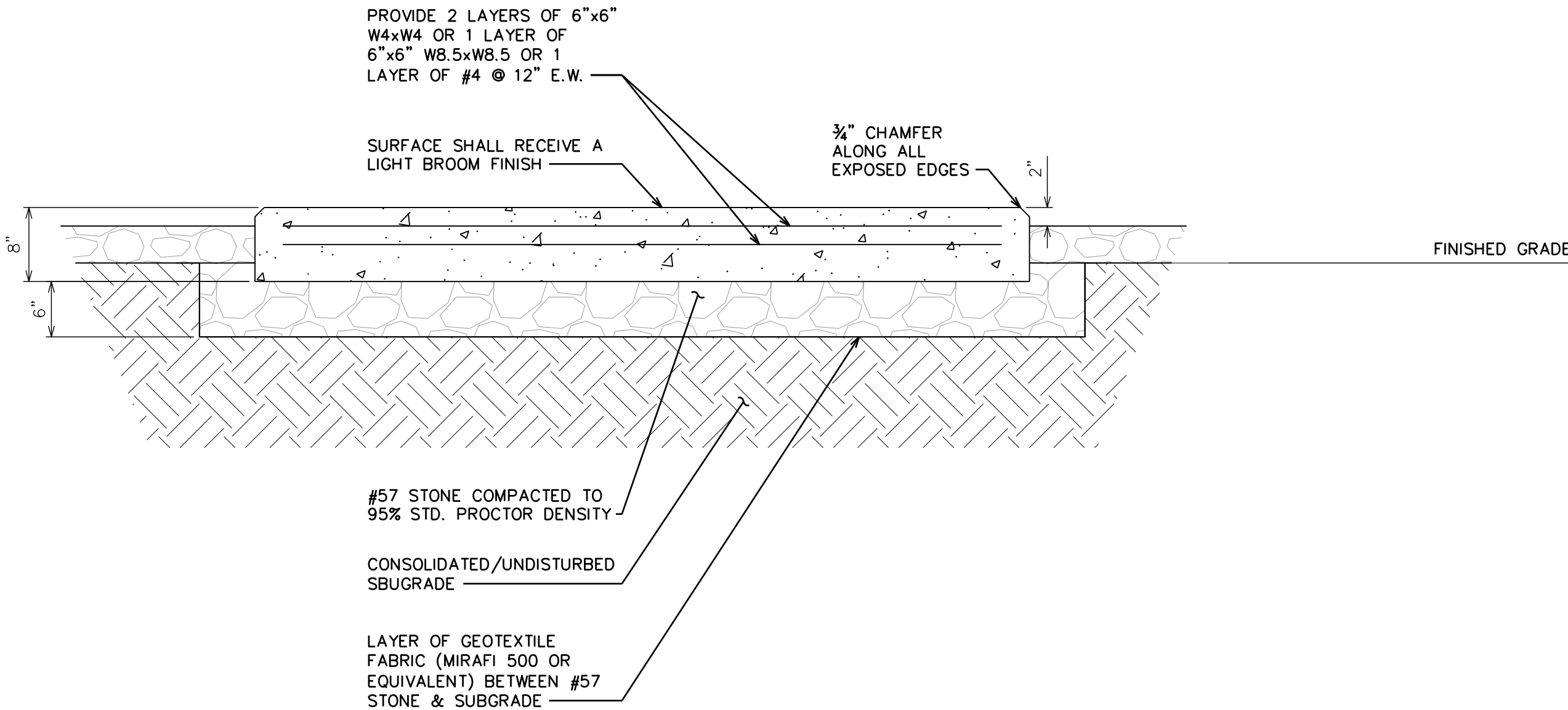
FOUNDATION NOTES:

1. FOUNDATION DESIGN BASED ON 2,000 PSF SOIL BEARING CAPACITY.
2. CONCRETE SHALL BE 4,000 PSI @ 28 DAYS.
3. REINFORCING STEEL Fy = 60,000 PSI.
4. ALL BACKFILL SHALL BE THOROUGHLY COMPACTED TO A MINIMUM OF 95% DENSITY USING THE MODIFIED PROCTER METHOD.
5. SURFACE OF FINISHED SLAB SHALL BE LEVEL AND FLAT WITH 1/4".
6. CONTRACTOR SHALL VERIFY WITH MANUFACTURER ACTUAL DIMENSIONS OF EQUIPMENT PRIOR TO LAYING OUT FOUNDATION.
7. ALL CONCRETE WORK SHALL BE PERFORMED IN ACCORDANCE WITH ACI 318-11.



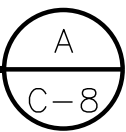
WIC & GENERATOR FOUNDATION PLAN

SCALE: N.T.S



PAD SECTION

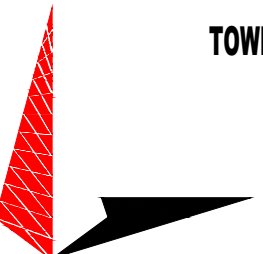
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FOUNDATION DETAILS

SHEET NUMBER:

C-8

REVISION:

C

TEP #:

177861.243634

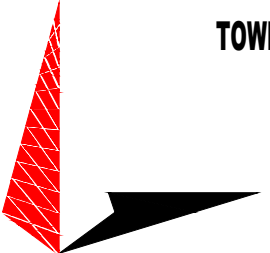




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HEET TITLE:

**ELECTRICAL PANEL &  
GROUNDING PLANS**

SHEET NUMBER:

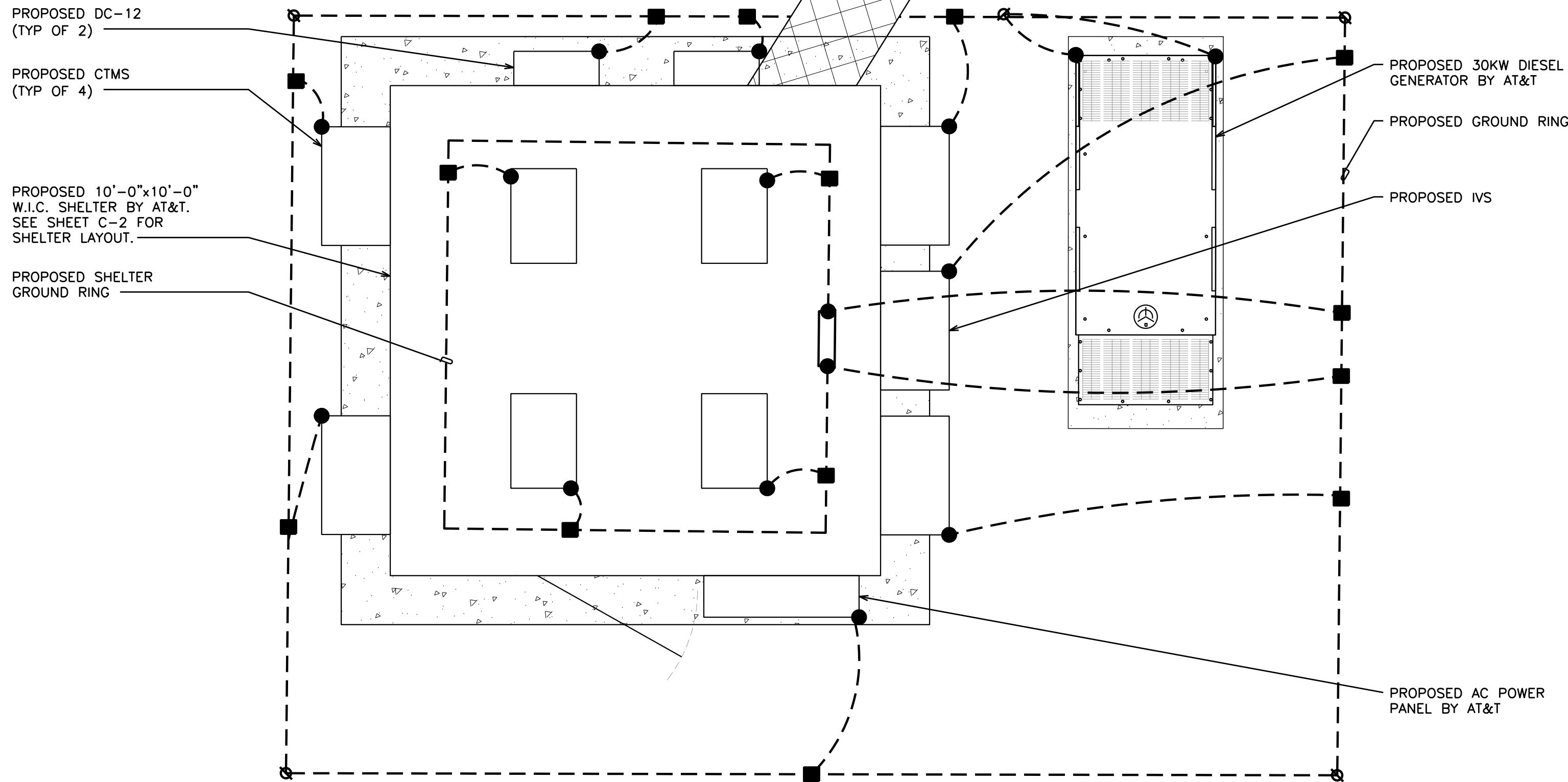
**E-1**

REVISION:

**C**

TEP #:

177861.243634



#### LEGEND

- EXOTHERMIC CONNECTION
- MECHANICAL CONNECTION
- ANTENNA GROUND BAR
- MASTER GROUND BAR

#### EQUIPMENT GROUNDING PLAN

SCALE:  $\frac{1}{2}" = 1'-0"$  (24x36)

SCALE:  $\frac{1}{4}" = 1'-0"$  (11x17)

0 2 4  
SCALE IN FEET

#### NOTE:

PROPOSED PANEL SCHEDULE VALUES  
WERE CALCULATED BASED ON MAXIMUM  
PULL FROM EACH CONNECTED  
BREAKER. ACTUAL VALUES WILL VARY  
BASED ON SITE CONDITIONS.

#### PROPOSED PANEL SCHEDULE

120/240 VOLTS 1 PHASE					3 WIRE SURFACE MOUNTED					225A, 2 POLE MAIN BREAKER				
NO.	LOAD SERVED	ØA VA	ØB VA	AMP/ POLE	L1	L2	AMP/ POLE	ØA VA	ØB VA	LOAD SERVED	NO.			
1	RECTIFIERS #1 & #2	2880	—	30/2	5760	—	30/2	2880	—	RECTIFIERS #3 & 4	2			
3		—	2880		—	5760		—	2880		—	4		
5	RECTIFIERS #5 & 6	2880	—	30/2	2880	—	30/2	0	—	SPARE/OFF	6			
7		—	2880		—	2880		—	0		—	8		
9	SPARE/OFF	0	—	30/2	0	—	30/2	0	—	SPARE/OFF	10			
11		—	0		—	0		—	0		—	12		
13	SPARE/OFF	0	—	30/2	0	—	30/2	0	—	SPARE/OFF	14			
15		—	0		—	0		—	0		—	16		
17	SPARE/OFF	0	—	30/2	0	—	30/2	0	—	SPARE/OFF	18			
19		—	0		—	0		—	0		—	20		
21	SPARE/OFF	0	—	30/2	0	—	30/2	0	—	SPARE/OFF	22			
23		—	0		—	0		—	0		—	24		
25	AC UNIT #1	1920	—	20/1	1920	—	—	—	—	BLANK	26			
27	BLANK	—	—	—	—	0	—	—	—	BLANK	28			
29	BLANK	—	—	—	0	—	—	—	—	BLANK	30			
31	BLANK	—	—	—	—	0	—	—	—	BLANK	32			
33	BLANK	—	—	—	0	—	—	—	—	BLANK	34			
35	BLANK	—	—	—	—	0	—	—	—	BLANK	36			
37	BLANK	—	—	—	0	—	—	—	—	BLANK	38			
39	BLANK	—	—	—	—	0	—	—	—	BLANK	40			
PHASE TOTALS (VA)					10560	8640								
CURRENT PER PHASE (A)					88	72								
PEAK TOTAL (VA)					10560	88	PEAK TOTAL (A)							
125% DEMAND (VA)					13200	110	125% DEMAND (A)							

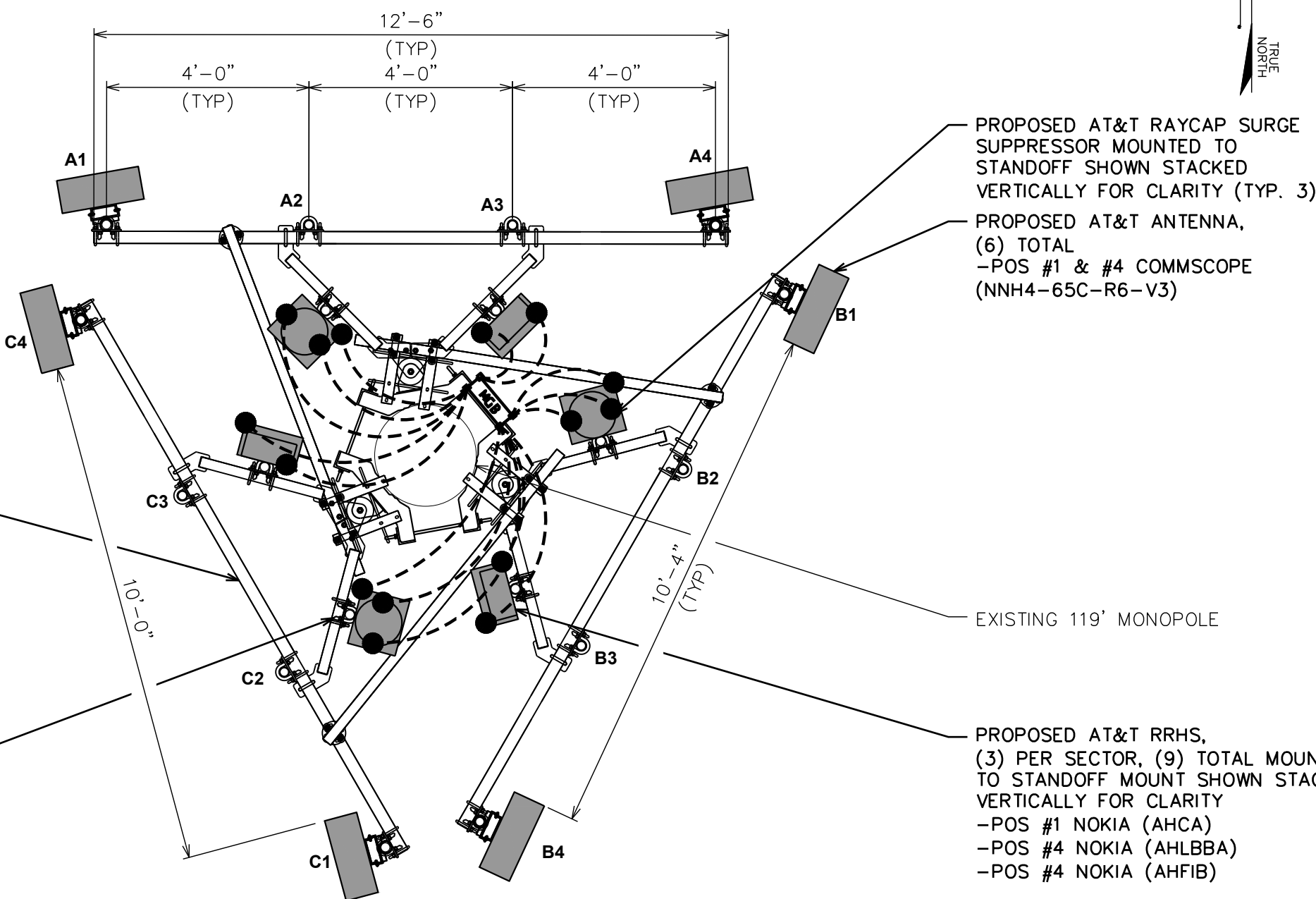
PROPOSED SITEPRO SECTOR  
FRAME MOUNT  
(P/N:VFA12-WLL-30120)  
BY AT&T, SEE SHEET C-5  
FOR DETAILS.

PROPOSED PIPE MOUNT KIT  
BY SITEPRO (P/N:SP219)  
BY AT&T, (4) PER SECTOR,  
(TOTAL OF 12). SEE SHEET  
C-5 FOR DETAILS.

#### LEGEND

- EXOTHERMIC CONNECTION
- MECHANICAL CONNECTION
- ANTENNA GROUND BAR
- MASTER GROUND BAR

#### ANTENNA GROUNDING PLAN



SCALE:  $\frac{3}{16}" = 1'-0"$  (24x36)

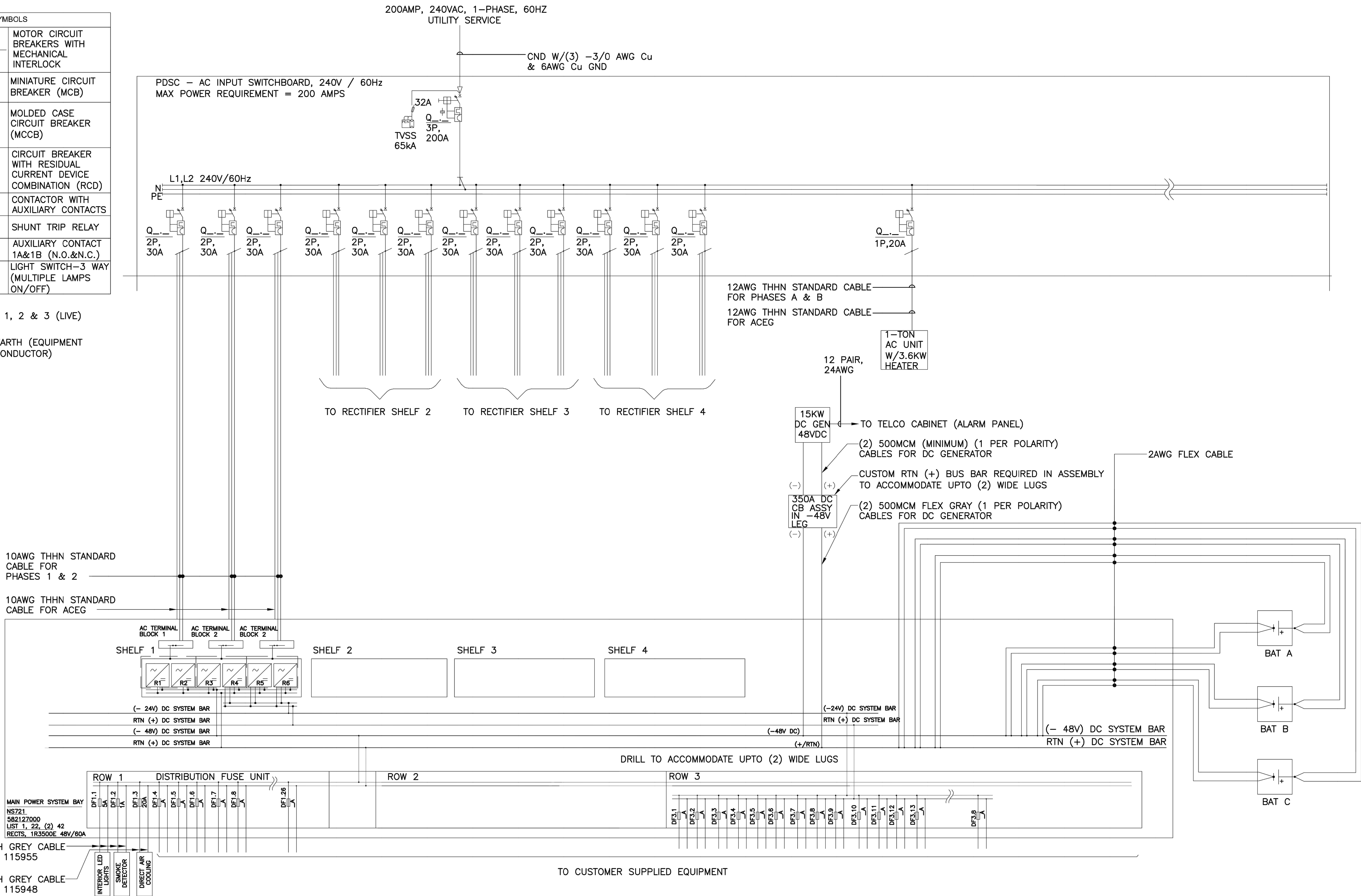
SCALE:  $\frac{3}{32}" = 1'-0"$  (11x17)

0 2 4  
SCALE IN FEET



SYMBOLS	
	MOTOR CIRCUIT BREAKERS WITH MECHANICAL INTERLOCK
	MINIATURE CIRCUIT BREAKER (MCB)
	MOLDED CASE CIRCUIT BREAKER (MCCB)
	CIRCUIT BREAKER WITH RESIDUAL CURRENT DEVICE COMBINATION (RCD)
	CONTACTOR WITH AUXILIARY CONTACTS
	SHUNT TRIP RELAY
	AUXILIARY CONTACT 1A&1B (N.O.&N.C.)
	LIGHT SWITCH-3 WAY (MULTIPLE LAMPS ON/OFF)

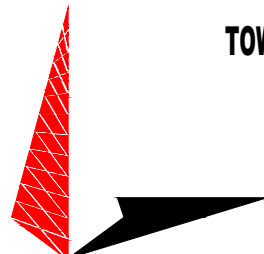
NOTE:  
L1,L2,L3 - PHASES 1, 2 & 3 (LIVE)  
N - NEUTRAL  
PE - PROTECTIVE EARTH (EQUIPMENT GROUNDING CONDUCTOR)



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AT&T SITE ID: COL02205  
AT&T FA CODE: 15312479  
AT&T PACE #: MRUTH042458  
ATC #: 370609  
WIDEFIELD HIGH SCHOOL II

523 WIDEFIELD ROAD  
COLORADO SPRINGS,  
CO 80911  
(EL PASO COUNTY)  
EXISTING 119'-0"  
MONOPOLE TOWER  
NSB - LTE - 1C/2C/3C/4C/  
5G NR 1SR

#### ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	QA
A	11-23-20	KT	PRELIMINARY	EGG
B	12-14-20	SDD	90% CONSTRUCTION	EGG
C	02-18-21	CAK	90% CONSTRUCTION	EGG

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#### SHEET TITLE:

ONE-LINE DIAGRAM

#### SHEET NUMBER:

E-2

#### REVISION:

C

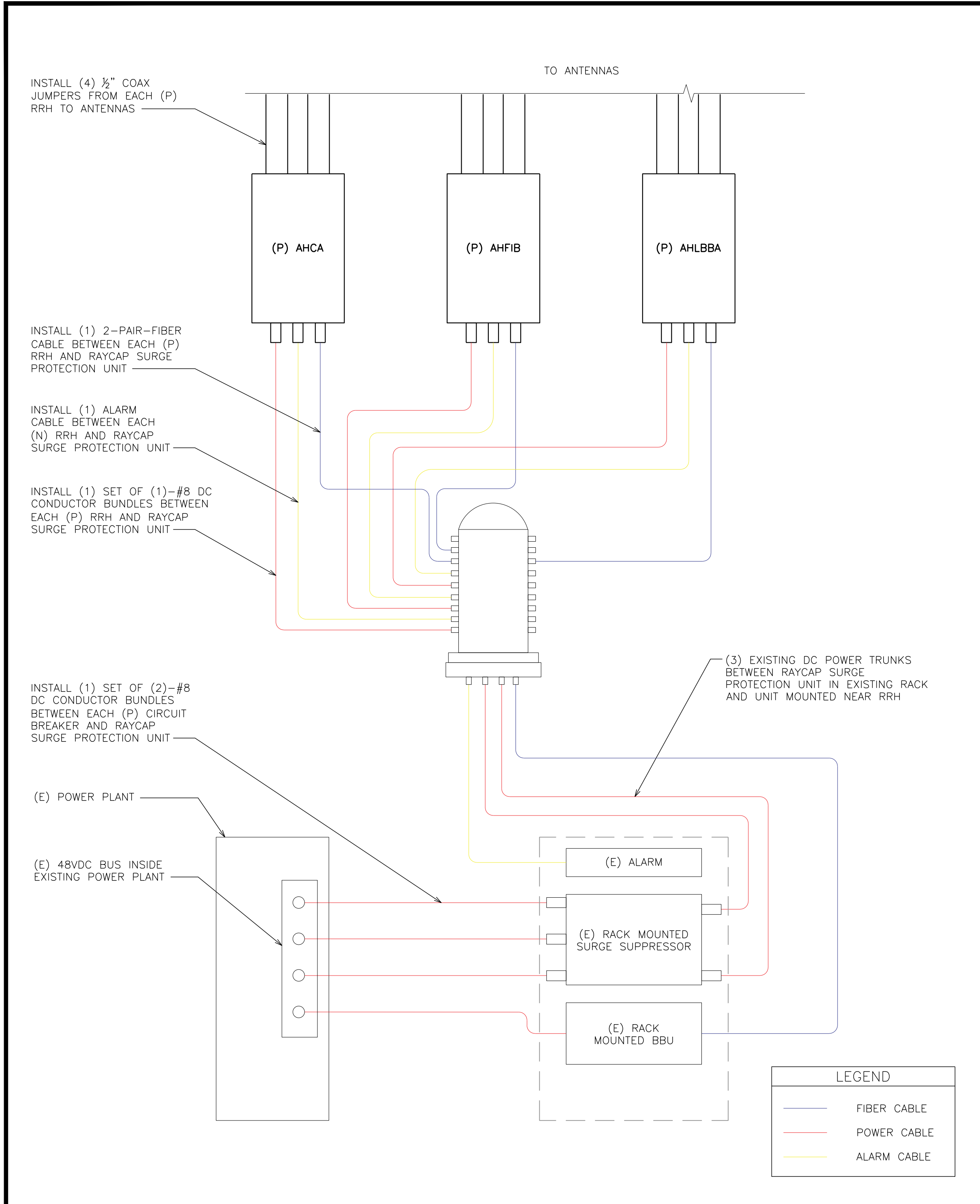
#### TEP #:

177861.243634

#### ELECTRICAL AC/DC SINGLE LINE DIAGRAM

SCALE: N.T.S.





**DC AND FIBER SYSTEM SCHEMATIC**  
SCALE: N.T.S.

PDF

JUMPER

DC-6

TRUNK

SQUID

JUMPER

RRH

RRH

RRH

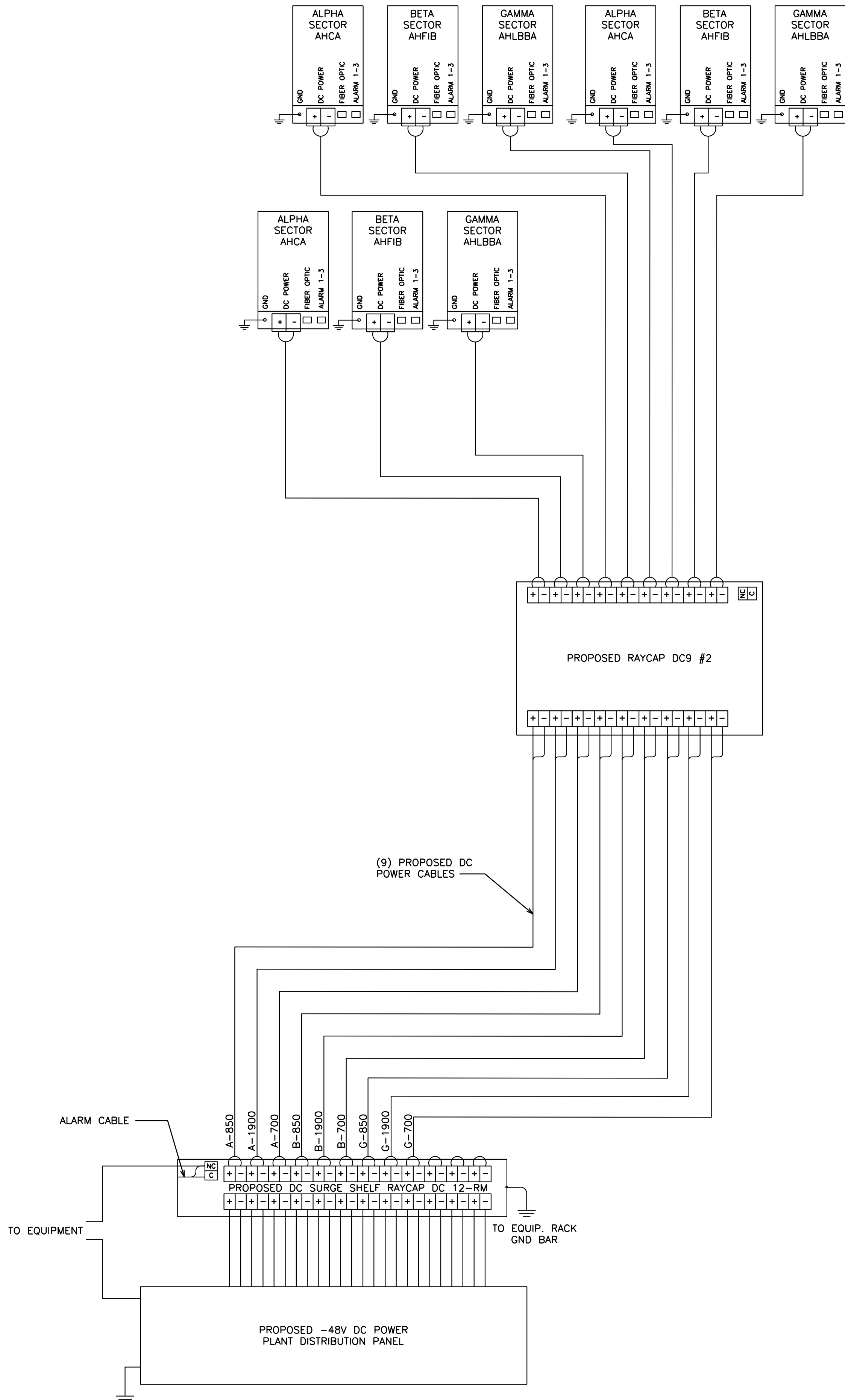
CABLE LENGTH TABLE

SECTOR	PDF	DISTANCE & CABLE TYPE		DC-6	DISTANCE & CABLE TYPE		SQUID	DISTANCE & CABLE TYPE		RRH	TOTAL CABLE LENGTH	FINAL VOLTAGE
ALPHA		20'	#8 AWG		145'	(2) #8 AWG		15'	#8 AWG		180'	40.6
BETA		20'	#8 AWG		145'	(2) #8 AWG		15'	#8 AWG		180'	40.6
GAMMA		20'	#8 AWG		145'	(2) #8 AWG		15'	#8 AWG		180'	40.6

CABLE COUNT

QTY	CABLE TYPE
1	FIBER TRUNKS
3	DC TRUNKS

**LTE CONDUCTOR SIZES**  
SCALE: N.T.S.



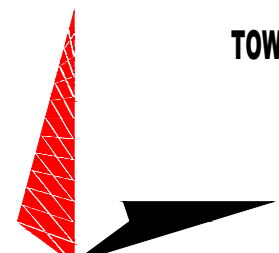
**DC WIRING DIAGRAM**  
SCALE: N.T.S.

 **AT&T**

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**EXISTING 119'-0"**  
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**5G NR 1SR**

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**SHEET TITLE:**

**DC SYSTEM DETAILS**

**SHEET NUMBER:**  
**E-3**

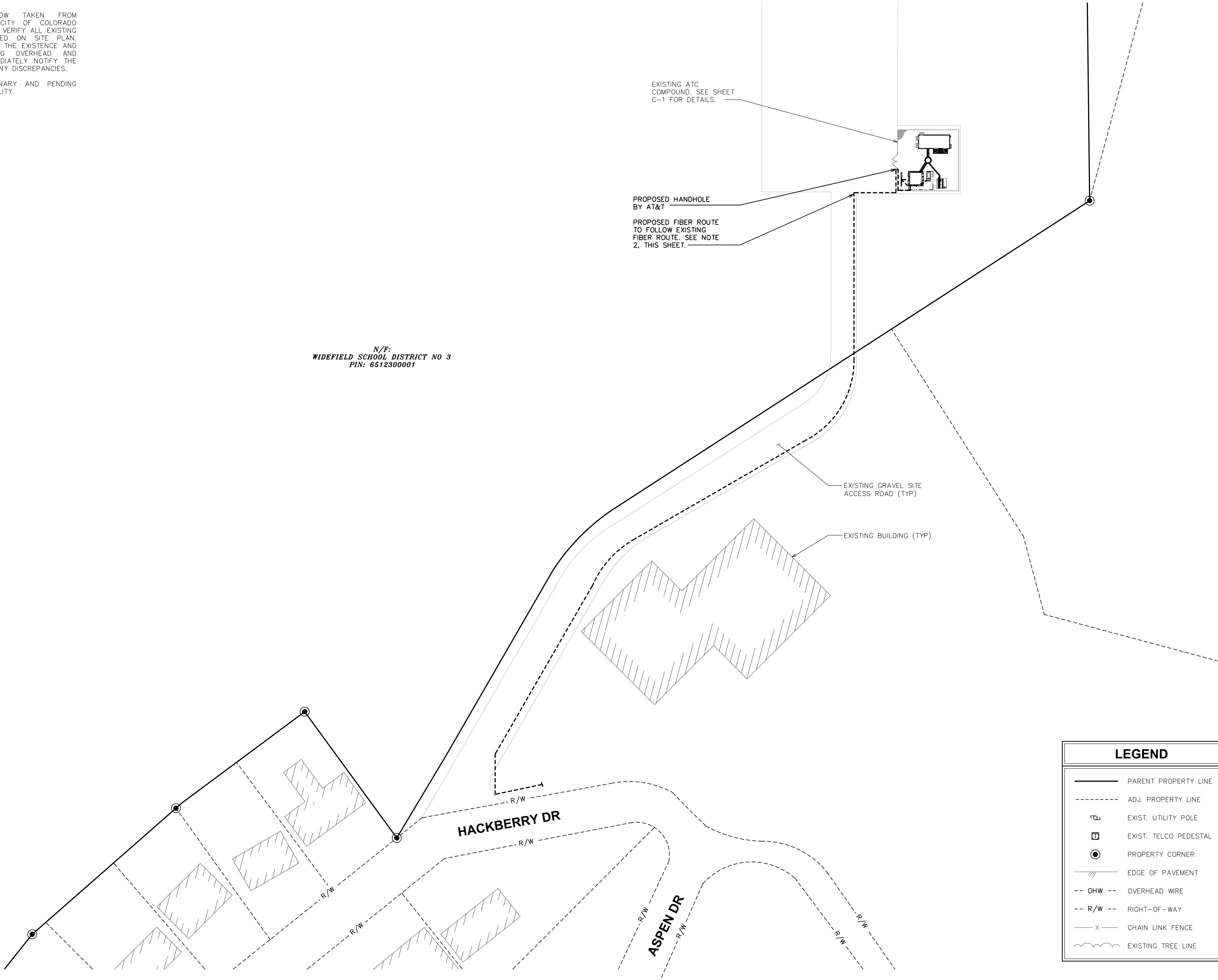
**REVISION:**  
**C**

**TEP #:** 177861.243634



NOTES:

1. SITE PLAN SHOWN BELOW TAKEN FROM INFORMATION PROVIDED BY CITY OF COLORADO SPRINGS GIS. CONTRACTOR TO VERIFY ALL EXISTING INFORMATION IS AS INDICATED ON SITE PLAN. CONTRACTOR IS TO ESTABLISH THE EXISTENCE AND LOCATION OF ALL EXISTING OVERHEAD AND UNDERGROUND UTILITIES. IMMEDIATELY NOTIFY THE CONSTRUCTION MANAGER OF ANY DISCREPANCIES.
2. UTILITY ROUTING IS PRELIMINARY AND PENDING COORDINATION WITH LOCAL UTILITY.



FIBER ROUTING PLAN

SCALE: 1" = 40'

SCALE: 1" = 40' (24x36)

SCALE: 1" = 80' (11x17)

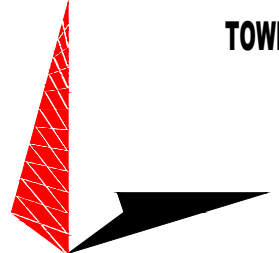
0 40 80  
SCALE IN FEET



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SHEET TITLE:

FIBER ROUTING PLAN

SHEET NUMBER:

E-4

REVISION:

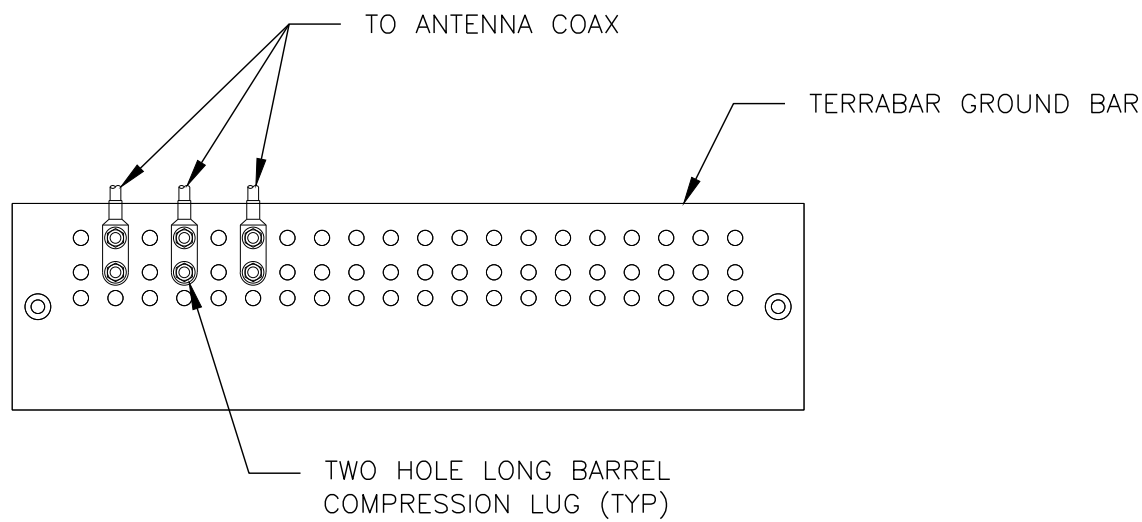
C

TEP #:

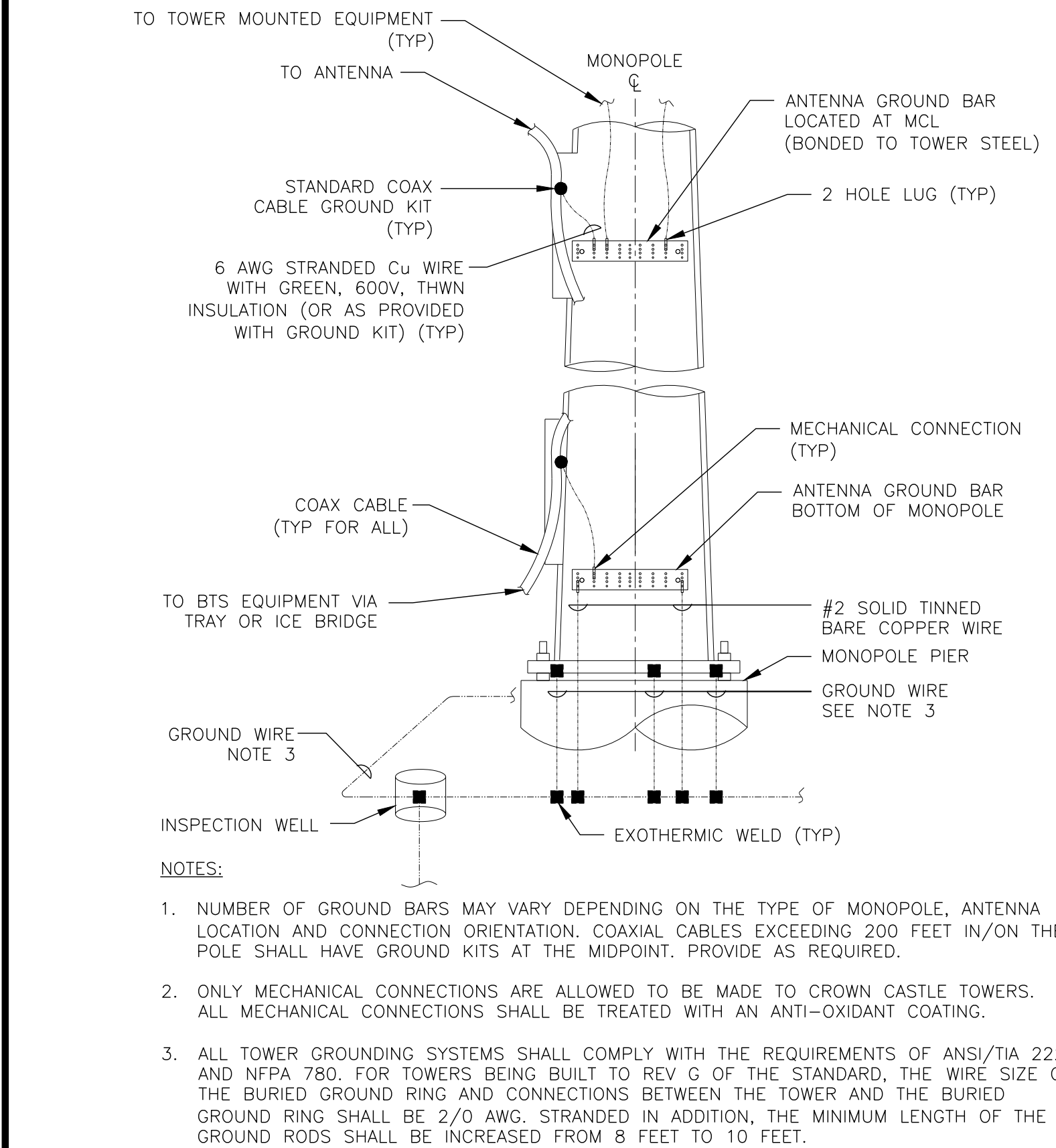
177861.243634



- NOTES:
1. DOUBLING UP "OR STACKING" OF CONNECTIONS IS NOT PERMITTED.
  2. EXTERIOR ANTIOXIDANT JOINT COMPOUND TO BE USED ON ALL EXTERIOR CONNECTIONS.
  3. GROUND BAR SHALL NOT BE ISOLATED FROM TOWER. MOUNT DIRECTLY TO TOWER STEEL.

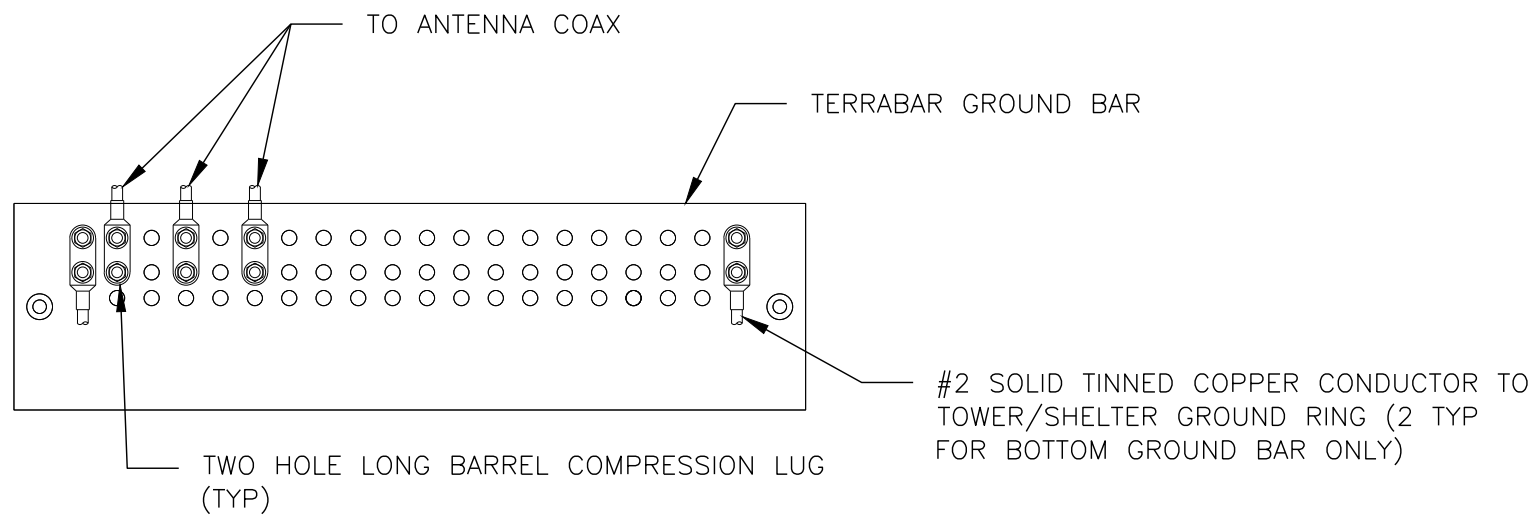


**ANTENNA GROUND BAR DETAIL**  
SCALE: N.T.S.

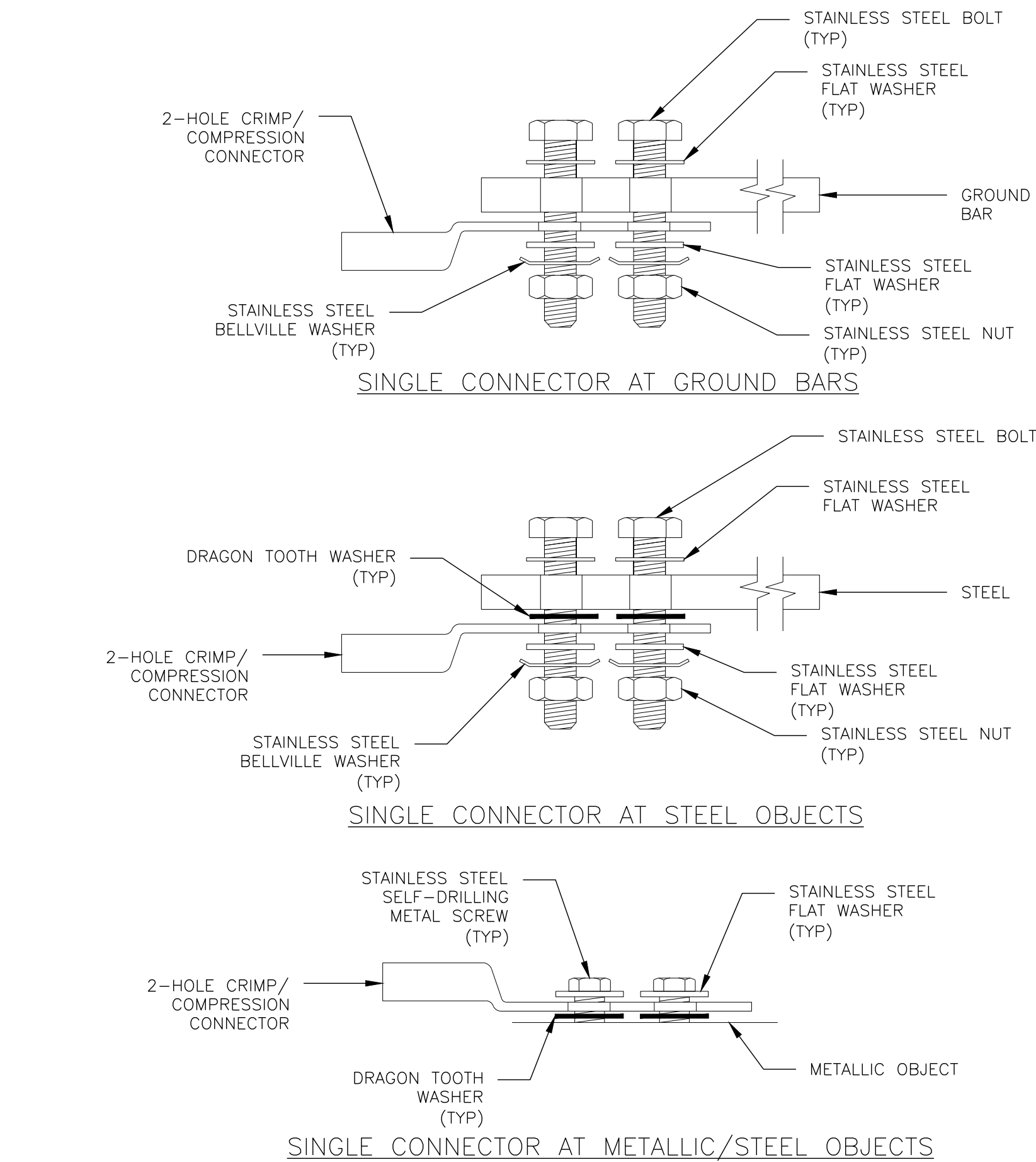


**TYPICAL ANTENNA CABLE GROUNDING**  
SCALE: N.T.S.

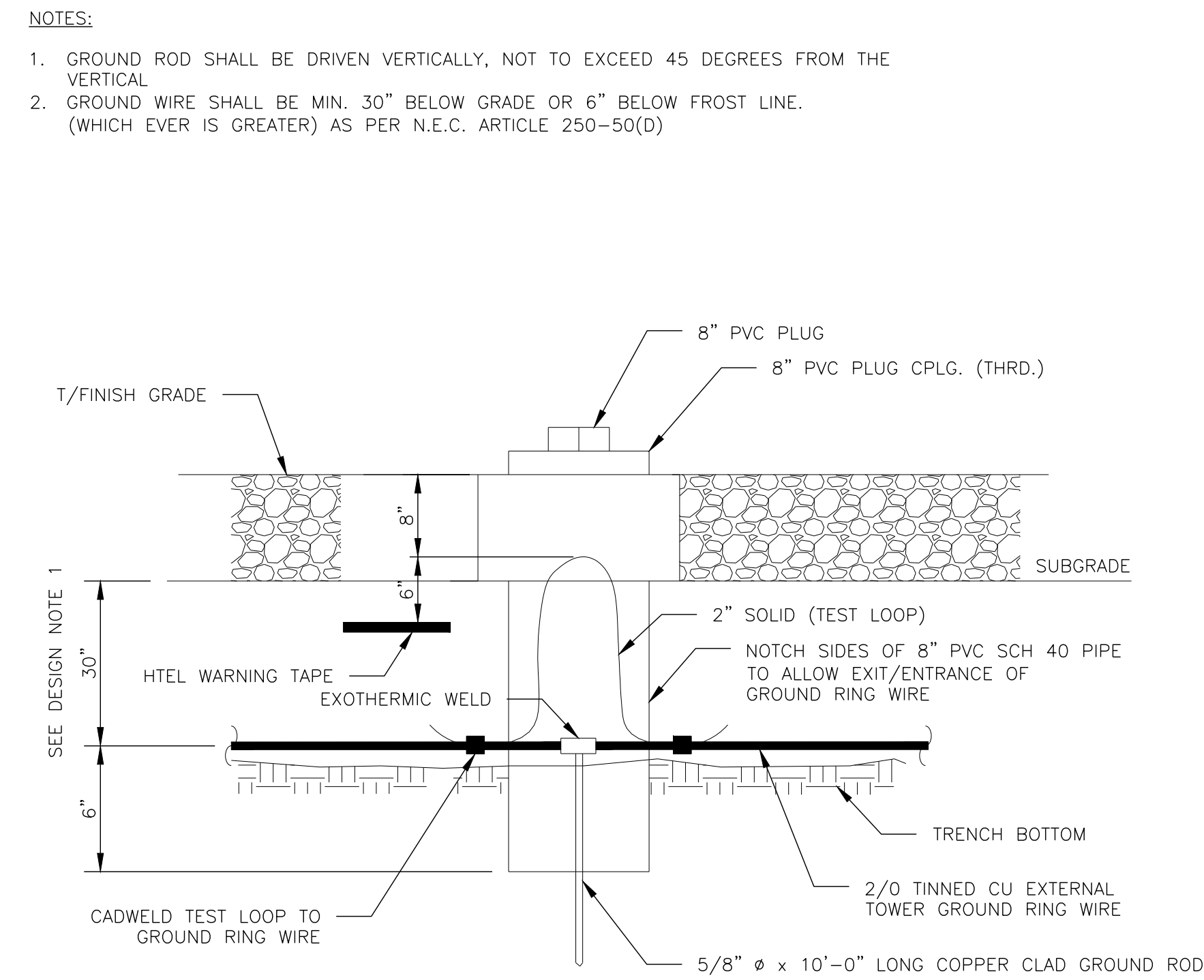
- NOTES:
1. EXTERIOR ANTIOXIDANT JOINT COMPOUND TO BE USED ON ALL EXTERIOR CONNECTIONS.
  2. GROUND BAR SHALL NOT BE ISOLATED FROM TOWER. MOUNT DIRECTLY TO TOWER STEEL (TOWER ONLY).
  3. INSTALL GROUND BARS AT 75 FT. INTERVAL MAXIMUM.
  4. GROUND BAR SHALL BE ISOLATED FROM BUILDING OR SHELTER.



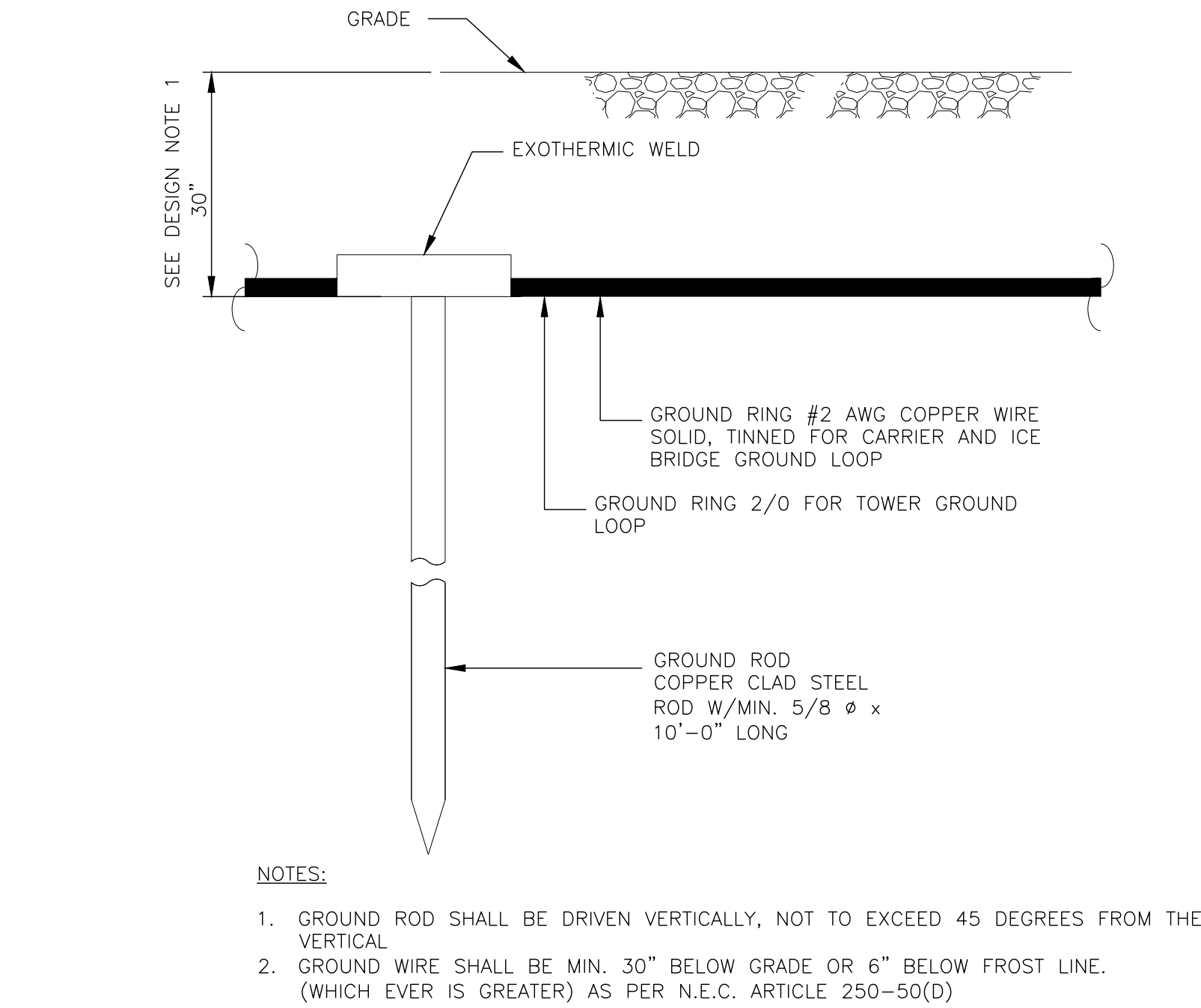
**TOWER/SHELTER GROUND BAR DETAIL**  
SCALE: N.T.S.



**HARDWARE DETAIL FOR EXTERIOR CONNECTIONS**  
SCALE: N.T.S.



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



**GROUND ROD**  
SCALE: N.T.S.

  
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**SHEET TITLE:**

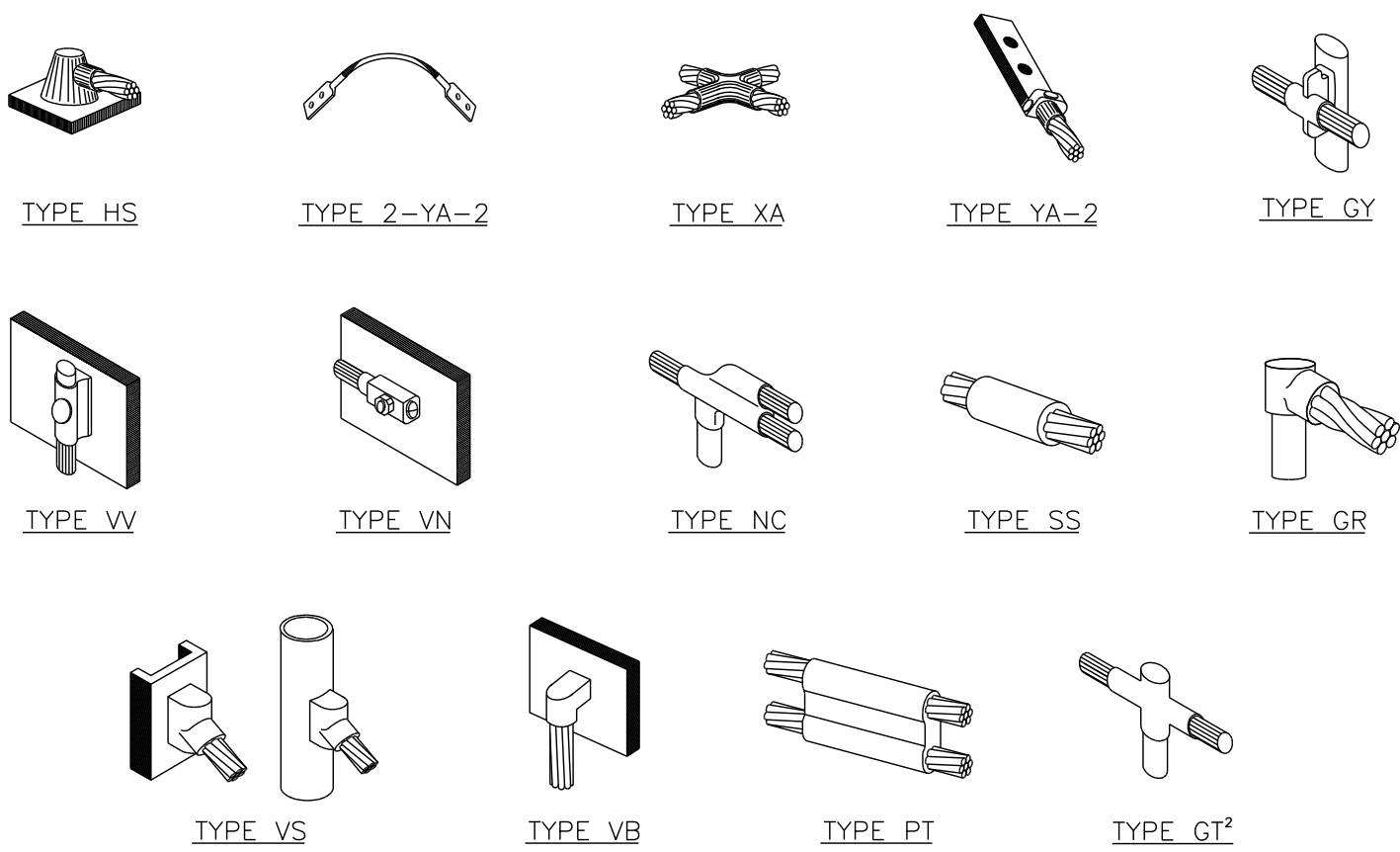
**GROUNDING DETAILS**

<b>SHEET NUMBER:</b>	<b>REVISION:</b>
<b>G-1</b>	<b>C</b>

**TEP #:** 177861.243634

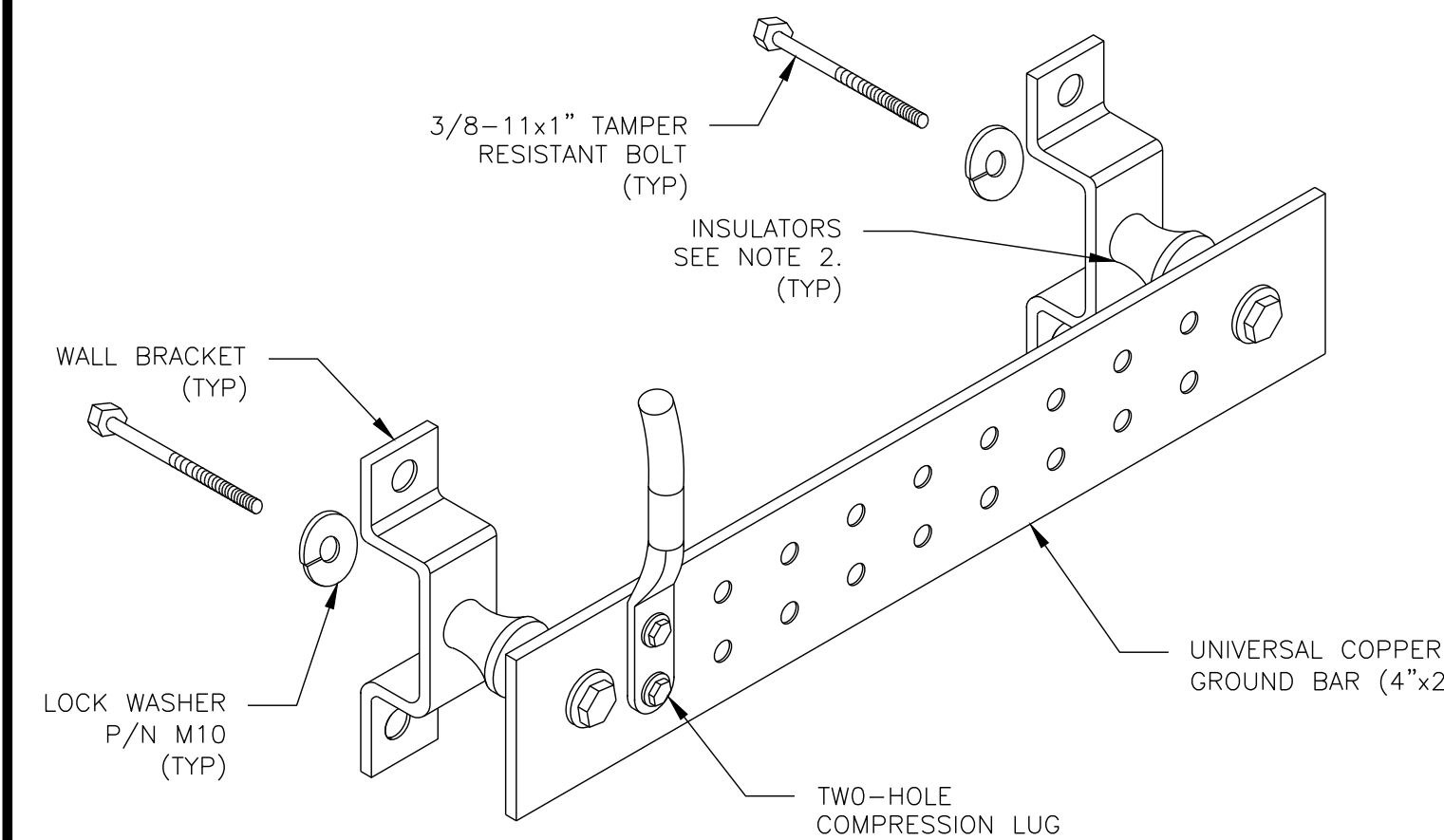


- NOTE:
1. ERICO EXOTHERMIC "MOLD TYPES" SHOWN HERE ARE EXAMPLES. CONSULT WITH CONSTRUCTION MANAGER FOR SPECIFIC MOLDS TO BE USED FOR THIS PROJECT.
  2. MOLD TYPE ONLY TO BE USED BELOW GRADE WHEN CONNECTING GROUND RING TO GROUND ROD.

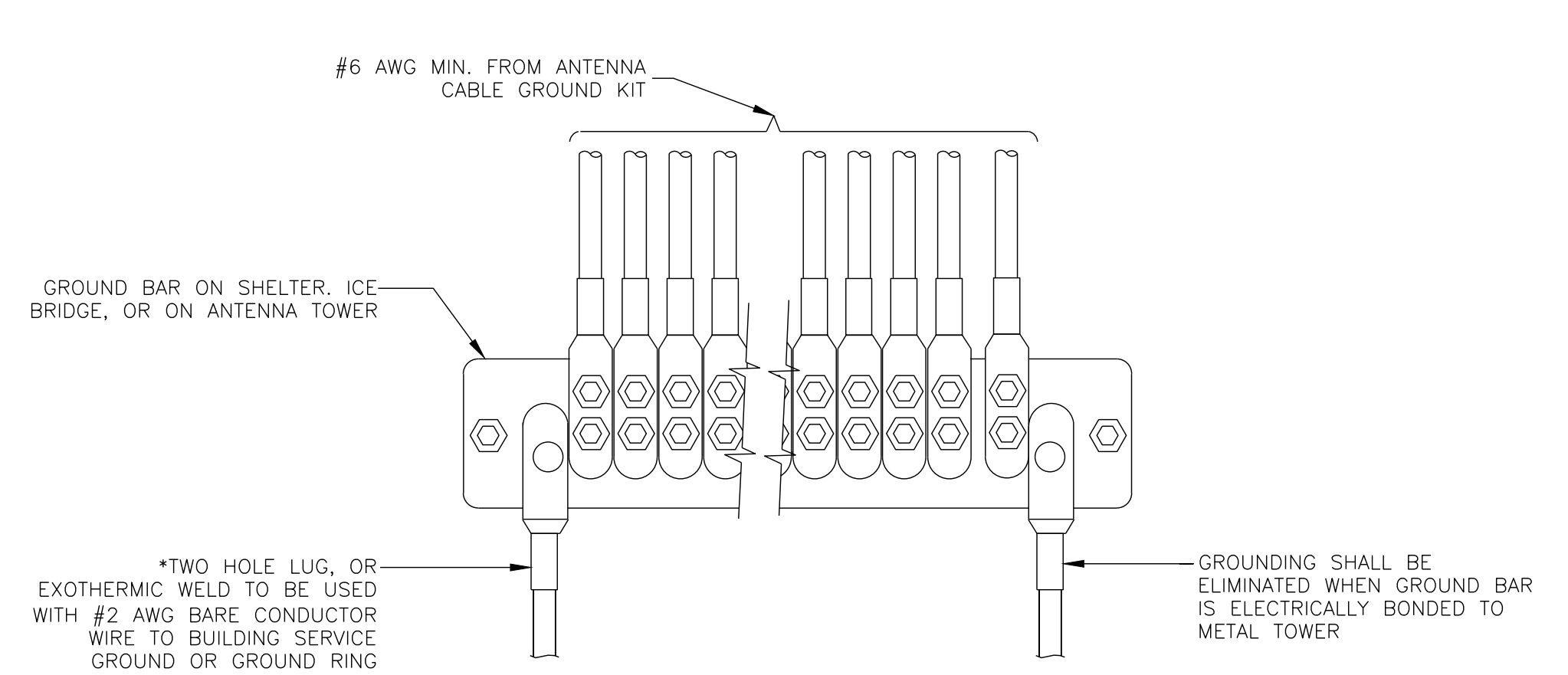


**CADWELD GROUNDING CONNECTIONS**  
SCALE: N.T.S.

- NOTES:
1. DOWN LEAD (HOME RUN) CONDUCTORS ARE NOT TO BE INSTALLED ON CROWN CASTLE TOWER, PER THE GROUNDING-DOWN CONDUCTOR POLICY GAS-STO-10091, NO MODIFICATION OR DRILLING TO TOWER STEEL IS ALLOWED IN ANY FORM OR FASHION, CAD-WELDING ON THE TOWER AND/OR IN THE AIR ARE NOT PERMITTED.
  2. OMIT INSULATOR WHEN MOUNTING TO TOWER STEEL OR PLATFORM STEEL. USE INSULATORS WHEN ATTACHING TO BUILDING OR SHELTERS.



**GROUND BAR DETAIL**  
SCALE: N.T.S.

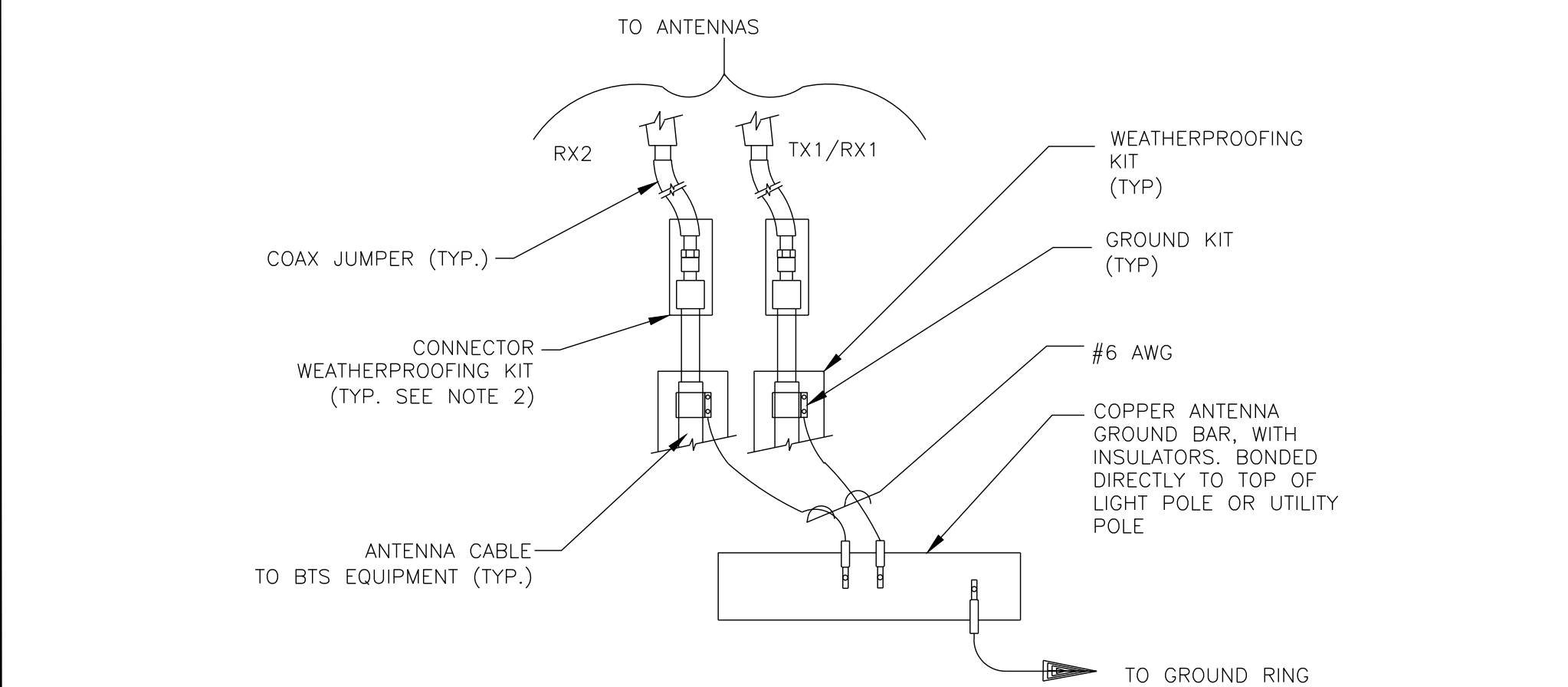


**GROUNDWIRE INSTALLATION**  
SCALE: N.T.S.

- NOTES:
1. DO NOT INSTALL CABLE GROUND KIT AT A BEND AND ALWAYS DIRECT GROUND WIRE DOWN TO GROUND BAR.
  2. GROUNDING KIT SHALL BE TYPE AND PART NUMBER AS SUPPLIED OR RECOMMENDED BY CABLE MANUFACTURER.
  3. WEATHER PROOFING SHALL BE TWO-PART TAPE KIT, COLD SHRINK SHALL NOT BE USED.
- 

**CABLE GROUND KIT CONNECTION**  
SCALE: N.T.S.

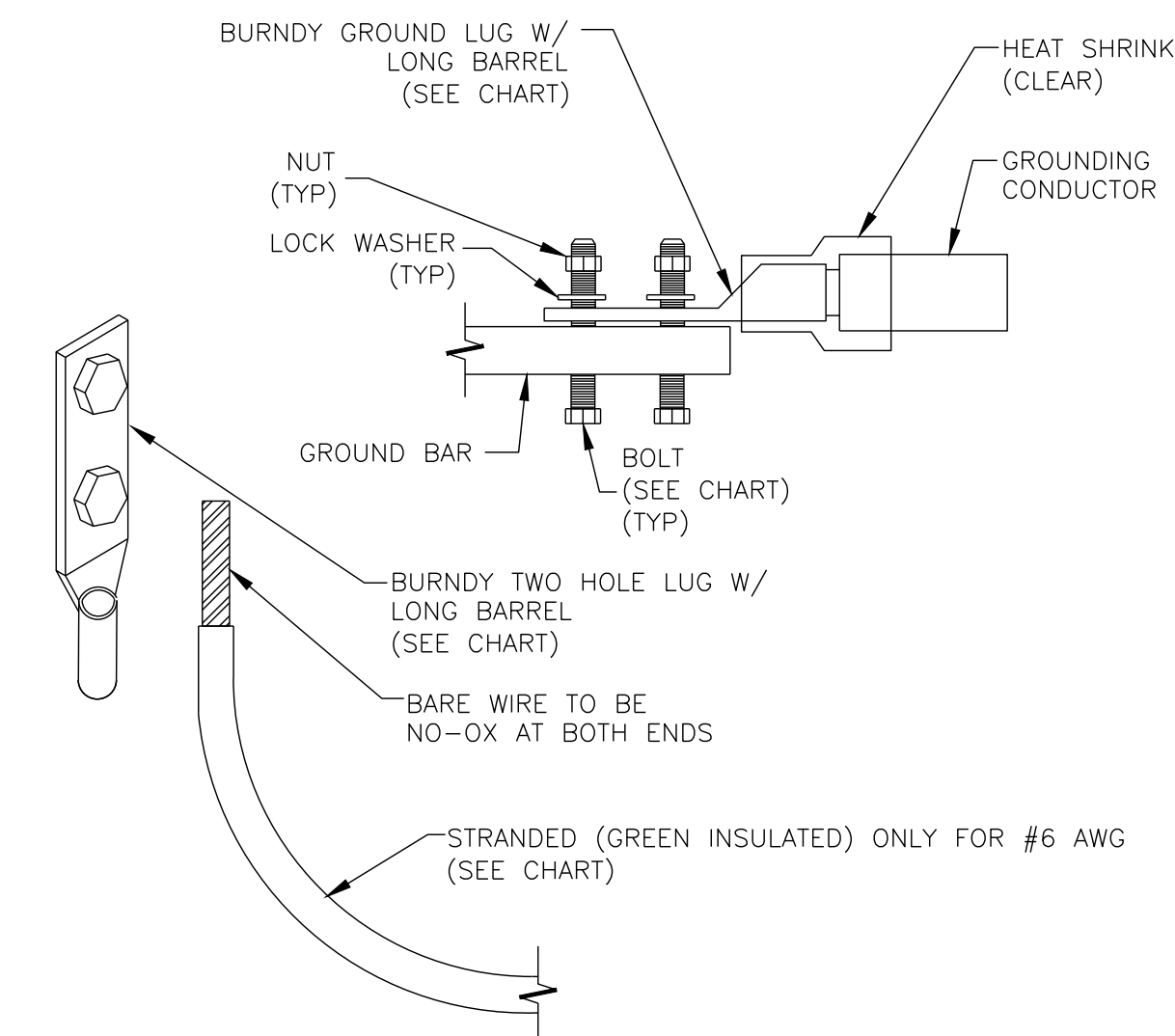
- NOTES:
1. DO NOT INSTALL CABLE GROUND KIT AT A BEND AND ALWAYS DIRECT GROUND WIRE DOWN TO ANTENNA GROUND BAR.
  2. WEATHER PROOFING SHALL BE TWO-PART TAPE KIT. COLD SHRINK SHALL NOT BE USED.



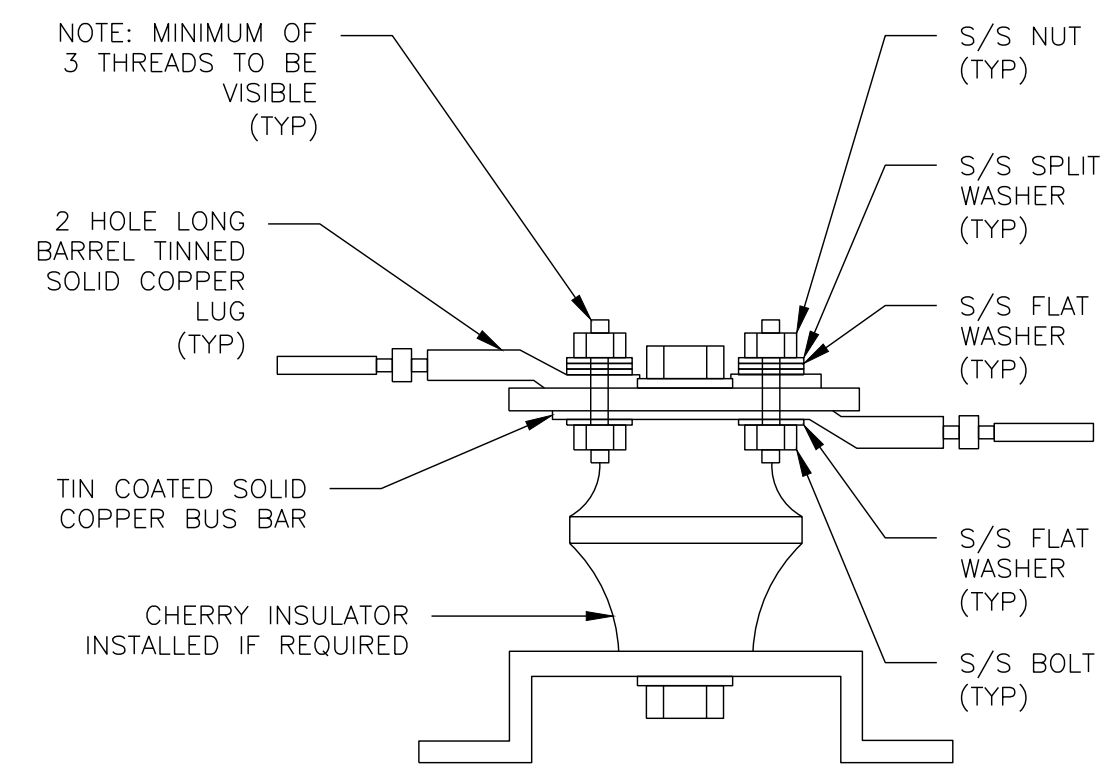
**GROUND CABLE CONNECTION**  
SCALE: N.T.S.

- NOTES:
1. ALL GROUNDING LUGS ARE TO BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS. ALL HARDWARE (BOLTS, NUTS, LOCK WASHERS) SHALL BE STAINLESS STEEL. ALL HARDWARE ARE TO BE AS FOLLOWS: BOLT, FLAT WASHER, GROUND BAR, GROUND LUG, FLAT WASHER AND NUT.

WIRE SIZE	BURNDY LUG	BOLT SIZE
#6 AWG GREEN INSULATED	YA6C-2TC38	3/8" - 16 NC S 2 BOLT
#2 AWG SOLID TINNED	YA3C-2TC38	3/8" - 16 NC S 2 BOLT
#2 AWG STRANDED	YA2C-2TC38	3/8" - 16 NC S 2 BOLT
#2/0 AWG STRANDED	YA26-2TC38	3/8" - 16 NC S 2 BOLT
#4/0 AWG STRANDED	YA28-2N	1/2" - 16 NC S 2 BOLT



**MECHANICAL LUG CONNECTION**  
SCALE: N.T.S.



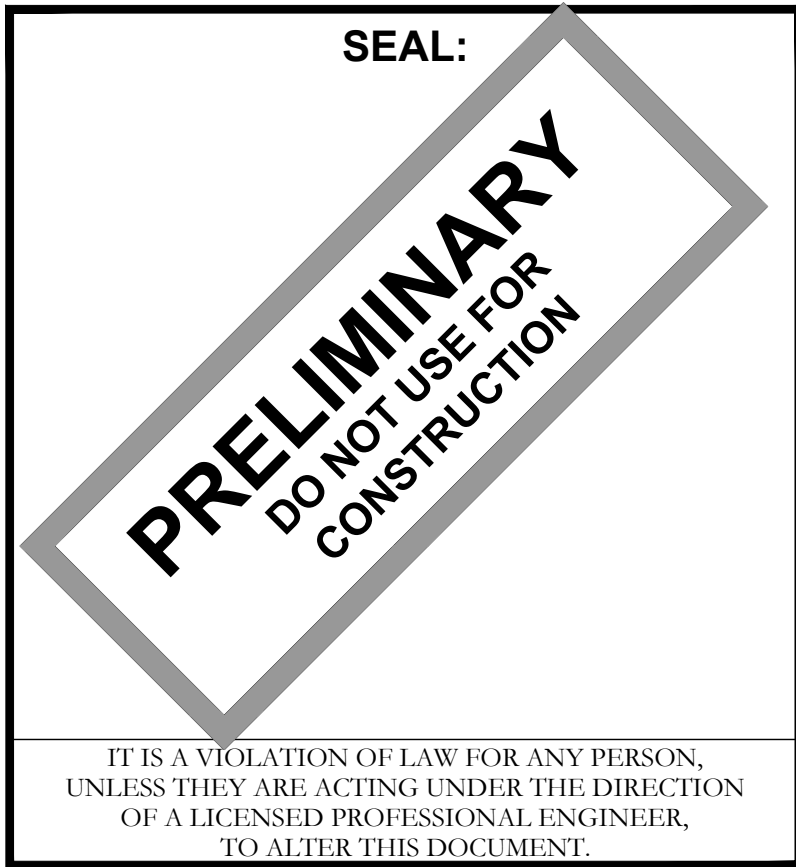
**LUG DETAIL**  
SCALE: N.T.S.



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**SHEET TITLE:**  
**GROUNDING DETAILS**

**SHEET NUMBER:**  
**G-2**

**REVISION:**  
**C**

**TEP #:** 177861.243634