



T-MOBILE SITE NUMBER: SL04306A  
 T-MOBILE SITE NAME: SL17XC652 RETAIN  
 SITE TYPE: MONOPOLE  
 TOWER HEIGHT: 58'-0"  
 T-MOBILE PROJECT: SPRINT RETAIN  
 SL04306A\_SL17XC652 Retain\_Sprint Retain\_FCD\_Coal Creek\_03.19.21

CROWN CASTLE BU #: 880617  
 SITE ADDRESS: 52 WEST FAYETTE  
 SALT LAKE, UT 84111  
 COUNTY: SALT LAKE  
 JURISDICTION: CITY OF SALT LAKE  
 LAT: 40° 44' 55.40" N  
 LONG: 111° 53' 35.70" W



T-MOBILE SITE:  
 SL04306A  
 SL17XC652 RETAIN  
 CROWN CASTLE SITE:  
 880617  
 ALLEY  
 52 WEST FAYETTE  
 SALT LAKE, UT 84111  
 SALT LAKE COUNTY  
 58'-0" MONOPOLE

**SITE INFORMATION**

**PROPERTY INFORMATION:**  
 SITE ADDRESS: 52 WEST FAYETTE  
 SALT LAKE, UT 84111  
 COUNTY: SALT LAKE  
 LATITUDE (NAD83): 40° 44' 55.40" N (40.748716°)  
 LONGITUDE (NAD83): 111° 53' 35.70" W (-111.893242°)  
 GROUND ELEVATION (NAVD88): ±4,225.0' AMSL  
 JURISDICTION: CITY OF SALT LAKE  
 APN: 15-12-280-043-0000  
 ZONING: D-2  
 OCCUPANCY CLASSIFICATION: U  
 LEGAL DESCRIPTION: SEE SHEET A-1

**CONSTRUCTION INFORMATION:**  
 AREA OF CONSTRUCTION: EXISTING  
 TYPE OF CONSTRUCTION: V-B  
 PROPOSED USE: UNMANNED TELECOMMUNICATIONS FACILITY

**HANDICAP REQUIREMENTS:**  
 FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION. HANDICAPPED ACCESS NOT REQUIRED.

**PROPERTY OWNER:**  
 COMPANY: GLOBAL SIGNAL ACQUISITION  
 ADDRESS: PO BOX 277455  
 CITY, STATE, ZIP: ATLANTA, GA 30389-7455

**TOWER OPERATOR:**  
 COMPANY: CROWN CASTLE USA, INC.  
 ADDRESS: 1505 WESTLAKE AVE N, SUITE 800  
 CITY, STATE, ZIP: SEATTLE, WA 98109

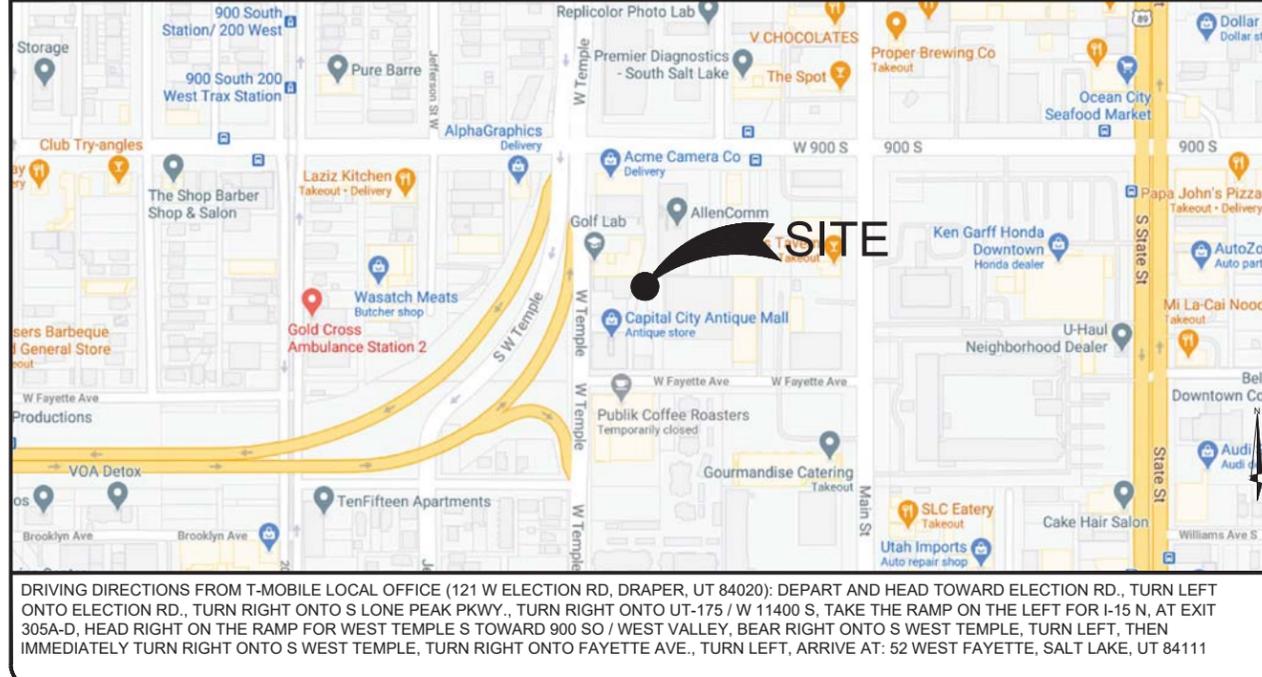
**APPLICANT:**  
 COMPANY: T-MOBILE  
 ADDRESS: 12920 SE 38TH ST  
 CITY, STATE, ZIP: BELLEVUE, WA 98006  
 REPRESENTATIVE: CROWN CASTLE USA, INC.  
 ADDRESS: 1505 WESTLAKE AVE N, SUITE 800  
 CITY, STATE, ZIP: SEATTLE, WA 98109  
 CONTACT: KELSEY PUHALLA  
 PHONE: (206) 336-2874  
 E-MAIL: kelsey.puhalla@crowncastle.com

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

**VICINITY MAP**



**PROJECT DESCRIPTION**

T-MOBILE PROPOSES TO MODIFY AN EXISTING UNMANNED TELECOMMUNICATIONS FACILITY AS FOLLOWS:  
**TOWER SCOPE OF WORK:**

- REMOVE (6) SPRINT PANEL ANTENNAS, (9) SPRINT RRU'S, (1) SPRINT FILTER, (6) JUNCTION BOXES, (1) SPRINT PLATFORM MOUNT, & (3) SPRINT HYBRID CABLES
- INSTALL (3) VFA8-SD V-BOOM SECTOR FRAME MOUNTS & (1) MSFAA-Q QUAD RING MOUNT ASSEMBLY
- INSTALL (3) AIR32 B2A/B66A, (3) APXVAA4L24\_43-U-NA20, & (3) AIR6449 B41 PANEL ANTENNAS
- INSTALL (3) RADIO 4415 B66A, (3) RADIO 4415 B25, & (3) RADIO 4449 B71+B85
- INSTALL (4) HYBRID CABLES

**GROUND SCOPE OF WORK:**

- REMOVE SPRINT MMBS CABINET & BBU CABINET
- INSTALL (1) B160 CABINET & (1) 6160 CABINET W/ (3) BB 6648, (1) DUG20, (1) RBS6601, (1) XMU, (1) CSR 7705 SAR M, (1) CSR IXRE V2 & (1) PSU 4813 INSIDE 6160 CABINET
- INSTALL (1) GPS ANTENNA, (1) SPD BOX, (1) NEW CAMLOCK & (2) LED TECH LIGHTS W/ TIMER

DESIGN IS BASED ON: CROWN CASTLE APPLICATION ID 539464, REV. #1 RFDS VERSION 1, DATED 03/29/2021 (CONFIG. 67D5A3997DB 6160, 67D53997DB\_2xAIR+1OP)

THESE PLANS HAVE BEEN DEVELOPED FOR THE MODIFICATION OF AN UNMANNED TELECOMMUNICATIONS FACILITY OWNED OR LEASED BY T-MOBILE IN ACCORDANCE WITH THE PROVIDED SCOPE OF WORK, INCORPORATED IN THE PLANS BY INFINIGY. THESE PLANS ARE NOT FOR CONSTRUCTION UNLESS STAMPED & SIGNED, & ACCOMPANIED BY A PASSING STRUCTURAL STABILITY ANALYSIS FOR THE STRUCTURE AND MOUNT PREPARED BY A LICENSED PROFESSIONAL ENGINEER.

**CODE COMPLIANCE**

ALL WORK SHALL BE PERFORMED AND MATERIALS 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 THESE CODES.

- 2018 INTERNATIONAL BUILDING CODE
- 2018 INTERNATIONAL MECHANICAL CODE
- 2018 INTERNATIONAL FIRE CODE
- 2018 UNIFORM PLUMBING CODE
- 2017 NATIONAL ELECTRICAL CODE
- 2018 INTERNATIONAL FUEL GAS CODE
- TIA-EIA-222-G OR LATEST EDITION
- ASCE 7-16
- NFPA 780 - LIGHTNING PROTECTION CODE
- ANY OTHER NATIONAL OR LOCAL APPLICABLE CODES, MOST RECENT EDITION
- LOCAL AMENDMENTS TO THE ABOVE, WHERE APPLICABLE
- CITY/COUNTY ORDINANCES
- LIFE SAFETY CODE NFPA-101



Know what's below.  
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**PROJECT TEAM**

**ARCHITECTURAL & ENGINEERING:**  
 COMPANY: INFINIGY ENGINEERING, PLLC  
 CONTACT: PAUL DANNEBERG  
 PHONE: (206) 375-3798  
 E-MAIL: pdanneberg@infinigy.com

**SITE ACQUISITION:**  
 COMPANY: CROWN CASTLE USA, INC.  
 ADDRESS: 1505 WESTLAKE AVE N, SUITE 800  
 CITY, STATE, ZIP: SEATTLE, WA 98109  
 CONTACT: KELSEY PUHALLA  
 PHONE: (206) 336-2874  
 E-MAIL: kelsey.puhalla@crowncastle.com

**CONSTRUCTION MANAGEMENT:**  
 COMPANY: CROWN CASTLE USA, INC.  
 CONTACT: JEFFREY LEE  
 PHONE: (801) 347-6768  
 E-MAIL: jeffrey.lee@crowncastle.com

**APPROVALS**

THE FOLLOWING PARTIES HEREBY APPROVE AND ACCEPT THESE DOCUMENTS & AUTHORIZE THE SUBCONTRACTOR TO PROCEED WITH CONSTRUCTION AS DESCRIBED HEREIN. ALL CONSTRUCTION DOCUMENTS ARE SUBJECT TO REVIEW BY THE LOCAL BUILDING DEPARTMENT & ANY CHANGES OR MODIFICATIONS THEY MAY IMPOSE.

APPROVAL:	SIGNATURE:	DATE:
PROJECT MANAGER		
SITE ACQUISITION		
CONSTRUCTION MANAGER		
SITE OWNER		
T-MOBILE		
RF ENGINEER		
DEVELOPMENT MANAGER		
CONSTRUCTION MANAGER		
OPS MANAGER		
REGULATORY REVIEW		
PROJECT MANAGER		

**DRAWINGS ISSUED FOR:**

REV.	DATE	DRAWN	DESCRIPTION	QA/QC
A	02/24/21	RCD	PRELIMINARY REVIEW	PD/HL
0	03/04/21	RC	100% CONSTRUCTION	PD
1	03/19/21	CAP	100% CONSTRUCTION	PD



SHEET TITLE: TITLE SHEET

SHEET NUMBER: T-1	REVISION: 1
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A. GENERAL

- ALL PAINT PRODUCT LINES SHALL BE SHERWIN WILLIAMS UNLESS SPECIFICALLY NOTED OTHERWISE BY T-MOBILE.
- CONTRACTOR SHALL PREPARE ALL SURFACES AND APPLY ALL FINISHES PER LATEST EDITION OF MANUFACTURER'S SPECIFICATIONS.
- COMPLY WITH MANUFACTURER'S WRITTEN INSTRUCTIONS REGARDING SUFFICIENT DRYING TIME BETWEEN COATS WITH PROVISIONS AS RECOMMENDED BY MANUFACTURER FOR EXISTING WEATHER CONDITIONS.
- FINISH COLOR AND TEXTURE OF ALL PAINTED SURFACES SHALL MATCH EXISTING ADJACENT SURFACES UNLESS OTHERWISE NOTED BY T-MOBILE.
- ALL PAINT MATERIAL DATA SHEETS SHALL BE PROVIDED TO THE T-MOBILE CONSTRUCTION MANAGER.
- PREPARE PREVIOUSLY PAINTED SURFACE BY LIGHT SANDING WITH 400 GRIT SANDPAPER AND NON-HYDROCARBON WASH. PREPARE GALVANIZED SURFACES BY ACID ETCH OR SOLVENT CLEANING IN ACCORDANCE WITH SSPC-SP1.
- FURNISH DROP CLOTHS, SHIELDS, MASKING AND OTHER PROTECTIVE METHODS TO PREVENT SPRAY OR DROPPINGS FROM DAMAGING ADJACENT SURFACES AND FACILITIES.
- APPLY PAINT BY AIRLESS SPRAY, SANDING LIGHTLY BETWEEN EACH SUCCEEDING ENAMEL COAT ON FLAT SURFACES. APPLY MATERIAL TO ACHIEVE A COATING NO THINNER THAN THE DRY FILM THICKNESS INDICATED.
- APPLY BLOCK FILTER TO CONCRETE BLOCK CONSTRUCTION AND ENSURE COMPLETE COVERAGE WITH PORES COMPLETELY FILLED.
- CONTRACTOR SHALL CORRECT RUNS, SAGS, MISSES AND OTHER DEFECTS INCLUDING INADEQUATE COVERAGE AS DIRECTED BY THE T-MOBILE CONSTRUCTION MANAGER. REPAINT AS NECESSARY TO ACHIEVE SURFACES THAT ARE SMOOTH, EVENLY COATED WITH UNIFORM SHEEN AND FREE FROM BLEMISHES.

B. PAINTING SCOPE

- PAINT THE FOLLOWING MATERIALS AND SYSTEMS CHECKED BELOW WITH THE COATING SYSTEM INDICATED.

PAINTING SCOPE				
SURFACE TO BE PAINTED	COATING SYSTEM	PAINT	DO NOT PAINT	N/A
BTS UNIT				X
ALL EQUIPMENT & CABINETS OTHER THAN THE BTS UNIT				X
ANTENNA COVERS, TILT BRACKETS, MOUNTING BRACKETS AND ASSOCIATED HARDWARE, CABLE AND CABLE COVERS EXPOSED TO VIEW, EXPOSED CONDUIT AND HANGERS, ETC.	SEE PLANS	SEE PLANS		
FLASHING UNITS, METAL TRIM AND OTHER METAL SURFACES				X
STUCCO, CONCRETE, CONCRETE BLOCK AND CEMENTIOUS TYPE FINISH SYSTEMS.				X
PLYWOOD, LUMBER AND WOOD TRIM INCLUDING THE BACK SIDE OF ALL SCREEN WALLS				X
DRYWALL				X
CONCRETE POLES				X
METAL POLES AND METAL POLE STAND-OFF				X

C. COATING SYSTEM SPECIFICATIONS

- DTM ACRYLIC COATING (SERIES B66) BY SHERWIN WILLIAMS CO. 1MIL DFT PER COAT APPLIED IN TWO COATS OVER DTM BONDING PRIMER (B66A50).
- 100% ACRYLIC, LATEX COATING EQUIVALENT TO A-100 (SERIES A-82) BY SHERWIN WILLIAMS CO. 1 MIL DFT PER COAT APPLIED IN TWO COATS OVER SPECIFIED PRIMER.

D. PAINT & PRIMER

ANTENNAS  
PRIMER - KEM AQUA E61-W525  
TOPCOAT - COROTHANE II B65W200/B60V22

BTS CABINET  
PRIMER - KEM AQUA E61-W525  
TOPCOAT - COROTHANE II B65W200/B60V22

COAXIAL JUMPER CABLES  
PRIMER - AS REQUIRED FOR ADHESION. APPLY ONE COAT OF KEM  
AQUA WATER REDUCIBLE PRIMER E61W25  
REDUCED 25%  
TOPCOAT - 2 COATS COROTHANE II POLYURETHANE B65W200/B60V2

RAW STEEL  
PRIMER - KEM BOND HS B50WZ4, DMT ACRYLIC PRIMER  
TOPCOAT - 2 COATS COROTHANE II POLYURETHANE B65W200/B60V2

GALVANIZED METAL  
ACID ETCH WITH COMMERCIAL ETCH OR VINEGAR  
PRIMER COAT AND  
FINISH COAT (GALVITE HIGH SOLIDS OR DTM PRIMER/FINISH)

STAINLESS STEEL  
PRIMER - OTM WASH PRIMER, B71Y1  
TOPCOAT - 2 COATS COROTHANE II POLYURETHANE B65W200/B60V2

PRE-PRIMED STEEL  
TOUCH UP ANY RUST OR UN-PRIMED STEEL WITH KEM BOND HS,  
SS0WZ4

ALUMINUM & COPPER  
PRIMER - DTM WASH PRIMER, B71Y1  
TOPCOAT - 2 COATS COROTHANE II POLYURETHANE B65W200/B60V2

CONCRETE MASONRY  
PRIMER - PRO MAR EXTERIOR BLOCK FILLER  
TOPCOAT - 2 COATS A-100 LATEX HOUSE & TRIM, SHEEN TO MATCH

CONCRETE STUCCO(EXISTING)  
2 COATS A-100 LATEX HOUSE & TRIM, SHEEN TO MATCH

STUCCO  
PRIMER - PRO MAR MASONRY CONDITONER B-46-W21000  
TOPCOAT - SUPERPAINT A-80 SERIES A-89 SATIN A-84 GLOSS

WOOD  
PRIMER - A-100 EXTERIOR ALKYD WOO9D PRIMER Y-24W20  
TOPCOAT - 2 COATS A-100 LATEX HOUSE & TRIM SHEEN TO

MATCH ADJACENT SURFACES

- THE LATEST EDITION OF THE AMERICAN INSTITUTE OF ARCHITECTS DOCUMENT A201 "GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION" ARE INCLUDED IN THESE SPECIFICATIONS AS IF COMPLETELY REPRODUCED HEREIN.
- THIS FACILITY IS AN UNOCCUPIED PCS TELECOMMUNICATIONS SITE AND IS EXEMPT FROM ADA ACCESS REQUIREMENTS.
- PRIOR TO SUBMISSION OF BIDS, THE CONTRACTORS PARTICIPATING SHALL VISIT THE JOB SITE WITH THE CONSTRUCTION AND CONTRACT DOCUMENTS TO CONFIRM THAT THE PROJECT CAN BE ACCOMPLISHED AS DESIGNED HEREIN, AS WELL AS TO FAMILIARIZE THEMSELVES WITH ALL FIELD CONDITIONS AFFECTING THE PROPOSED PROJECT INCLUDING DEMOLITION, ELECTRICAL, MECHANICAL AND STRUCTURAL INSTALLATIONS PRIOR TO PROCEEDING WITH CONSTRUCTION. SHOULD ANY ERRORS, OMISSION, OR DISCREPANCIES BE FOUND, THE GENERAL CONTRACTOR SHALL IMMEDIATELY NOTIFY IN WRITING, THE T-MOBILE CONSTRUCTION MANAGER AND THE ARCHITECT.
- IN THE EVENT OF DISCREPANCIES WITHIN THESE DRAWINGS, THE CONTRACTOR SHALL INCLUDE THE MORE COSTLY OR EXTENSIVE WORK IN THE BID, UNLESS SPECIFICALLY DIRECTED OTHERWISE BY T-MOBILE. IF A DISCREPANCY EXISTS AND THE PROJECT MANAGER AND ARCHITECT ARE NOT NOTIFIED, THE GENERAL CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ALL COSTS INCURRED TO REPAIR OR CORRECT ALL PROBLEMS THAT RESULT.
- THESE DRAWINGS SHALL NOT BE SCALED AS THESE DRAWINGS ARE INTENDED TO BE FOR DIAGRAMMATIC PURPOSES ONLY. FIGURED DIMENSIONS HAVE PRECEDENCE OVER DRAWING SCALE AND DETAIL DRAWINGS HAVE PRECEDENCE OVER SMALL SCALE DRAWINGS. CONTRACTOR SHALL CHECK THE ACCURACY OF ALL DIMENSIONS IN THE FIELD. UNLESS SPECIFICALLY NOTED, DO NOT FABRICATE ANY MATERIALS, OR BEGIN ANY CONSTRUCTION UNTIL THE ACCURACY OF DRAWING DIMENSIONS HAS BEEN VERIFIED AGAINST ACTUAL FIELD DIMENSIONS.
- THE CONTRACTOR SHALL INCLUDE IN HIS OR HER BID ALL MATERIALS, EQUIPMENT, APPURTENANCES AND LABOR NECESSARY TO COMPLETE THE WORK AS INDICATED OR IMPLIED BY THESE DRAWINGS.
- CONTRACTOR SHALL NOTIFY THE T-MOBILE CONSTRUCTION MANAGER, THE PROPERTY OWNER AND THE ARCHITECT IF ANY DETAILS ARE CONSIDERED IMPRACTICAL, UNSUITABLE, UNSAFE, NOT WATERPROOF, OR NOT WITHIN CUSTOMARY TRADE PRACTICE. IF WORK IS PERFORMED, IT WILL BE ASSUMED THAT THERE IS NO OBJECTION TO ANY DETAIL. DETAILS ARE INTENDED TO SHOW THE END RESULT OF THE DESIGN. MINOR MODIFICATIONS MAY BE REQUIRED TO SUIT JOB CONDITIONS, AND SHALL BE INCLUDED AS PART OF THE WORK.
- EXISTING ELEVATIONS AND LOCATIONS SHALL BE VERIFIED BY THE CONTRACTOR BEFORE CONSTRUCTION. IF THEY DIFFER FROM THOSE SHOWN ON THE PLANS, THE CONTRACTOR SHALL NOTIFY THE T-MOBILE CONSTRUCTION MANAGER AND THE ARCHITECT SO THAT MODIFICATIONS CAN BE MADE BEFORE PROCEEDING WITH THE WORK.
- THE CONTRACTOR SHALL VERIFY ALL TELEPHONE & RADIO EQUIPMENT LAYOUTS, SPECIFICATIONS, PERFORMANCE, INSTALLATION AND FINAL LOCATIONS WITH T-MOBILE CONSTRUCTION MANAGER PRIOR TO BEGINNING WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL WORK WITH ERICSSON RADIO SYSTEMS.
- ALL SYMBOLS & ABBREVIATIONS USED ON THESE DRAWINGS ARE CONSIDERED CONSTRUCTION STANDARDS. IF THE CONTRACTOR HAS QUESTIONS REGARDING THEIR EXACT MEANING, THE T-MOBILE CONSTRUCTION MANAGER AND THE ARCHITECT SHALL BE NOTIFIED FOR CLARIFICATION BEFORE THE CONTRACTOR PROCEEDS WITH THE WORK.
- THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS, LICENSES AND INSPECTIONS NECESSARY FOR PERFORMANCE OF THE WORK AND INCLUDE THOSE IN THE COST OF THE WORK TO T-MOBILE.

- THE CONTRACTOR SHALL PROVIDE CONTINUOUS SUPERVISION AND DIRECT ALL WORK WHILE ANY SUBCONTRACTORS OR WORKERS ARE ONSITE, USING HIS OR HER BEST SKILL AND ATTENTION. THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, PROCEDURES, SEQUENCES, AND COORDINATION OF ALL PORTIONS OF THE CONTRACTED WORK.
- WORKMANSHIP THROUGHOUT SHALL BE OF THE BEST QUALITY OF THE TRADE INVOLVED, AND SHALL MEET OR EXCEED THE FOLLOWING MINIMUM REFERENCE STANDARDS FOR QUALITY AND PROFESSIONAL CONSTRUCTION PRACTICE:
  - NRCA NATIONAL ROOFING CONTRACTORS ASSOCIATION  
O'HARE INTERNATIONAL CENTER  
10255 W. HIGGINS ROAD, SUITE 600  
ROSEMONT, IL 60018-5607
  - SMACNA SHEET METAL AND AIR CONDITIONING CONTRACTORS  
NATIONAL ASSOCIATION  
4201 LAFAYETTE CENTER DRIVE  
CHANTILLY, VA 20151-1219
  - IILP INTERNATIONAL INSTITUTE FOR LATH AND PLASTER  
820 TRANSFER ROAD  
ST. PAUL, MN 55114-1406
- INSTALL ALL EQUIPMENT AND MATERIALS PER THE LATEST EDITION OF THE MANUFACTURER'S INSTALLATION SPECIFICATIONS UNLESS OTHERWISE INDICATED BY T-MOBILE, OR WHERE LOCAL CODES OR REGULATIONS TAKE PRECEDENCE.
- THE CONTRACTOR SHALL VERIFY, COORDINATE, AND PROVIDE ALL NECESSARY BLOCKING, BACKING, FRAMING, HANGERS OR OTHER SUPPORTS FOR ALL ITEMS.
- THE CONTRACTOR AND ALL SUBCONTRACTORS SHALL GIVE ALL REQUIRED CONSTRUCTION NOTICES AND SHALL COMPLY WITH ALL APPLICABLE LOCAL CODES, REGULATIONS, LAWS AND ORDINANCES, AS WELL AS THE STATE DEPARTMENT OF INDUSTRIAL RELATIONS REGULATIONS, INCLUDING BUT NOT LIMITED TO THE DIVISION OF OCCUPATIONAL SAFETY AND HEALTH (OSHA).
- THE CONTRACTOR SHALL PROTECT ALL PROPERTY FROM DAMAGE THAT MAY OCCUR DURING CONSTRUCTION. ANY DAMAGE TO NEW AND EXISTING FINISHES, CONSTRUCTION, STRUCTURE, LANDSCAPING, CURBS, STAIRS, OR EQUIPMENT, ETC. SHALL BE IMMEDIATELY REPAIRED OR REPLACED TO THE SATISFACTION OF T-MOBILE AND THE PROPERTY OWNER'S REPRESENTATIVE, AT THE EXPENSE OF THE CONTRACTOR.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR, AND SHALL REPLACE OR REMEDY, ANY FAULTY, IMPROPER, OR INFERIOR MATERIALS OR WORKMANSHIP OR ANY DAMAGE WHICH SHALL APPEAR WITHIN ONE YEAR AFTER THE COMPLETION AND ACCEPTANCE OF THE WORK BY T-MOBILE UNDER THIS CONTRACT.
- IT SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO PROTECT AND LOCATE, OR CONTACT AN OUTSIDE AGENCY TO LOCATE, ALL EXISTING UTILITIES REGARDLESS OF WHETHER OR NOT SHOWN HEREIN. THE CONTRACTOR SHALL BEAR ALL EXPENSES FOR THE REPAIR OR REPLACEMENT OF UTILITIES OR OTHER PROPERTY DAMAGED IN CONJUNCTION WITH THE EXECUTION OF WORK.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COMPLETE SECURITY OF THE PROJECT SITE WHILE THE JOB IS IN PROGRESS AND UNTIL THE JOB IS COMPLETED AND ACCEPTED BY T-MOBILE.
- THE CONTRACTOR SHALL PROVIDE TEMPORARY WATER, POWER AND TOILET FACILITIES AS REQUIRED BY THE PROPERTY OWNER, T-MOBILE, AND THE CITY OR GOVERNING AGENCY.
- THE GENERAL CONTRACTOR IS RESPONSIBLE FOR REDLINING THE CONSTRUCTION DOCUMENTS TO ILLUSTRATE THE AS-BUILT CONDITION OF THE SITE. THIS SHALL BE DONE AFTER THE SITE HAS BEEN AWARDED FINAL INSPECTION BY THE RESPONSIBLE BUILDING AGENCY. ONE SET OF REDLINED DRAWINGS SHALL BE PROVIDED TO THE T-MOBILE CONSTRUCTION MANAGER.

- THE LATEST EDITION OF ALL PERMITTED AND APPROVED PLANS PERTAINING TO THIS PROJECT SHALL BE KEPT IN A PLAN BOX AND SHALL NOT BE USED BY WORKERS. ALL CONSTRUCTION SETS SHALL REFLECT THE SAME INFORMATION. THE CONTRACTOR SHALL ALSO MAINTAIN IN GOOD CONDITION, ONE COMPLETE SET OF PLANS WITH ALL REVISIONS, ADDENDA AND CHANGE ORDERS ON THE PREMISES AT ALL TIMES. THESE ARE TO BE UNDER THE CARE OF THE CONSTRUCTION SUPERINTENDENT.
- THE CONTRACTOR SHALL REMOVE ALL RUBBISH AND WASTE MATERIALS ON A DAILY BASIS, EXCEPT FOR THAT SPECIFIED AS THE PROPERTY OF THE BUILDING OR PROPERTY OWNER AND SHALL EXERCISE STRICT CONTROL OVER SITE CLEANING THROUGHOUT CONSTRUCTION AND FINAL CLEAN-UP UPON COMPLETION OF WORK. ALL AREAS ARE TO BE LEFT IN A BROOM CLEAN CONDITION AT THE END OF EACH DAY THEN AT A VACUUM CLEAN CONDITION, FREE FROM PAINT SPOTS, DUST OR SMUDGES OF ANY NATURE AT COMPLETION OF WORK.
- THE GENERAL CONTRACTOR MUST PERFORM WORK DURING PROPERTY OWNER'S PREFERRED HOURS TO AVOID DISRUPTION OF NORMAL ACTIVITY.
- ALL EXPOSED METAL SHALL BE HOT-DIPPED GALVANIZED.
- SEAL ALL PENETRATIONS THROUGH FIRE-RATED AREAS WITH U.L. LISTED OR FIRE MARSHALL APPROVED MATERIALS IF AND WHERE APPLICABLE TO THIS FACILITY AND PROJECT SITE.
- PROVIDE A PORTABLE FIRE EXTINGUISHER WITH A RATING OF NOT LESS THAN 2-A OR 2-A10BC WITHIN 75 FEET TRAVEL DISTANCE TO ALL PORTIONS OF THE PROJECT AREA UNDER CONSTRUCTION.
- ELECTRICAL POWER SYSTEM SHALL BE GROUNDED PER NEC ARTICLES 250 AND 810.
- ALL NEW OPENINGS IN THE EXTERIOR ENVELOPE OF CONDITIONED SPACES SUCH AS AT WALL AND ROOF PENETRATIONS SHALL BE CAULKED OR SEALED TO LIMIT INFILTRATION OF AIR AND MOISTURE.
- UPON COMPLETION OF CONSTRUCTION, T-MOBILE CONSTRUCTION MANAGER SHALL CONDUCT A WALK-THRU WITH PROPERTY OWNER OR REPRESENTATIVE OF PROPERTY OWNER.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL SYSTEM EQUIPMENT IN A CLEAN WORKING ORDER UNTIL ACCEPTANCE OF THE PROJECT BY T-MOBILE.
- INSTALL ALL EQUIPMENT AND MATERIALS PER THE LATEST EDITION OF THE MANUFACTURER'S INSTALLATION SPECIFICATIONS UNLESS SPECIFICALLY OTHERWISE INDICATED, OR WHERE LOCAL CODES OR REGULATION TAKE PRECEDENCE.



T-MOBILE SITE:  
SL04306A  
SL17XC652 RETAIN

CROWN CASTLE SITE:  
880617  
ALLEY

52 WEST FAYETTE  
SALT LAKE, UT 84111  
SALT LAKE COUNTY

58'-0" MONOPOLE

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1	03/19/21	CAP	100% CONSTRUCTION	PD



SHEET TITLE: <b>SPECIFICATIONS &amp; NOTES</b>	
SHEET NUMBER: <b>T-2</b>	REVISION: <b>1</b>

2 PAINT SPECIFICATIONS

1 GENERAL SPECIFICATIONS



12920 SE 38TH ST  
BELLEVUE, WA 98006



1505 WESTLAKE AVE N, SUITE 800  
SEATTLE, WA 98109



FROM ZERO TO INFINIGY  
the solutions are endless

BELLEVUE, WA 98004

T-MOBILE SITE:  
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SL17XC652 RETAIN

CROWN CASTLE SITE:  
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58'-0" MONOPOLE

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SHEET TITLE:  
SPECIFICATIONS  
& NOTES

SHEET NUMBER:  
**T-3**

REVISION:  
**1**

- 13. ANCHORING: ALL ANCHOR BOLTS, REINFORCING STEEL, DOWELS, INSERTS, ETC., SHALL BE WELL SECURED IN POSITION PRIOR TO PLACING CONCRETE. NO REPOSITIONING DURING CONCRETE POUR IS ALLOWED.
- 14. SLABS SHALL BE SPRAYED WITH A CURING COMPOUND IMMEDIATELY AFTER FINISHING. CURING COMPOUNDS USED ON CONCRETE WHERE TILE OR FLOOR COVERING IS TO BE BONDED TO THE CONCRETE SURFACE SHALL BE APPROVED BY THE TILE OR FLOOR COVERING MANUFACTURER. KEEP SLAB WET FOR 7 DAY MINIMUM PERIOD.
- 15. CONSOLIDATION: ALL CONCRETE SHALL BE VIBRATED AS IT IS BEING PLACED WITH ELECTRICALLY OPERATED VIBRATING EQUIPMENT.
- D. TIMBER
  - 1. ALL FRAMING LUMBER FOR 4X AND LARGER BEAMS SHALL BE NO. 1 GRADE DOUGLAS FIR., S45, UNLESS NOTED OTHERWISE.
  - 2. ALL FRAMING LUMBER FOR 2X RAFTERS AND JOISTS SHALL BE NO.2 GRADE DOUGLAS FIR, S45, UNLESS NOTED OTHERWISE.
  - 3. STRIPPING, BLOCKING, BACKING AND OTHER NON-STRUCTURAL LUMBER SHALL BE NO. 2 OR STD & BTR GRADE DOUGLAS FIR, S45. 2X4 STUD WALLS SHALL BE D.F. STANDARD & BTR.
  - 4. ALL BEAMS, JOISTS AND RAFTERS SHALL BE INSTALLED WITH CROWN SIDE UP.
  - 5. ROOF PLYWOOD SHALL MATCH EXISTING PLYWOOD SHEATHING WITH A SPAN INDEX RATIO 32/16. EDGE NAIL WITH 8d AT 6" O.C. UNLESS NOTED OTHERWISE ON PLANS. FIELD NAIL WITH 8d AT 12" O.C.
  - 6. PLYWOOD SHEETS SHALL BE LAID WITH THE FACE GRAIN PERPENDICULAR TO SUPPORTS AND WITH THE EDGES STAGGERED, UNLESS NOTED OTHERWISE ON THE PLANS.
  - 7. PLYWOOD SHALL BE GRADE MARKED BY DFPA, TECO, OR PTL AND SHALL CONFORM TO PS 1-83.
  - 8. THE MAXIMUM MOISTURE CONTENT OF ALL LUMBER SHALL NOT EXCEED 24% AT THE TIME OF INSTALLATION.
  - 9. MINIMUM NAILING SHALL COMPLY WITH TABLE 23-1-q OF BUILDING CODE. ALL NAILS SHALL BE COMMON WIRE NAILS.
  - 10. ALL BOLTS SHALL HAVE STANDARD CUT WASHERS UNDER HEADS AND/OR NUTS WHERE IN CONTACT WITH WOOD.
  - 11. LAG BOLTS SHALL BE SCREWED INTO PLACE, NOT DRIVEN. LAG BOLTS SHALL BE INSTALLED IN PRE-DRILLED HOLES WITH A DIAMETER EQUAL TO 75% DIAMETER OF BOLT.
  - 12. CONNECTORS: ALL SHEET METAL FRAMING CONNECTORS SHOWN IN THE PLANS SHALL BE STRONG CONNECTORS AS MANUFACTURED BY THE SAMSON COMPANY. SUBSTITUTIONS MAY BE MADE WHEN APPROVED BY THE STRUCTURAL ENGINEER.
  - 13. ALL LUMBER EXPOSED TO WEATHER OR IN CONTACT WITH MASONRY OR CONCRETE SHALL BE WOLMANIZED PRESSURE TREATED LUMBER OR A NATURALLY DECAY RESISTANT LUMBER SUCH AS REDWOOD OR CEDAR.
  - 14. ALASKAN YELLOW CEDAR GLUE-LAMINATED BEAMS
    - A. LUMBER SPECIES: ALASKAN YELLOW CEDAR (A.C.) CONFORMING TO 20F-V12
    - B. STRENGTH PROPERTIES:  
Fb BOTTOM FIBER BENDING STRESS 2000psi MIN.  
Ft TOP FIBER BENDING STRESS 1000psi MIN.  
Fv SHEAR STRESS 190psi MIN.  
Fc COMPRESSION STRESS PERPENDICULAR TO GRAIN 560psi MIN.
    - C. MODULUS ELASTICITY 1400ksi MIN.
    - D. CAMBER TO RADIUS OF 1600" U.O.N.
    - E. ALL GLB'S SHALL BE FABRICATED WITH EXTERIOR GLUE.
    - F. MANUFACTURE OF GLB'S SHALL CONFORM TO THE UBC.
    - G. GLU-LAM MATERIAL SHALL BE IN ACCORDANCE WITH ANSI/AITC A190.1 AND ASTM D3737.

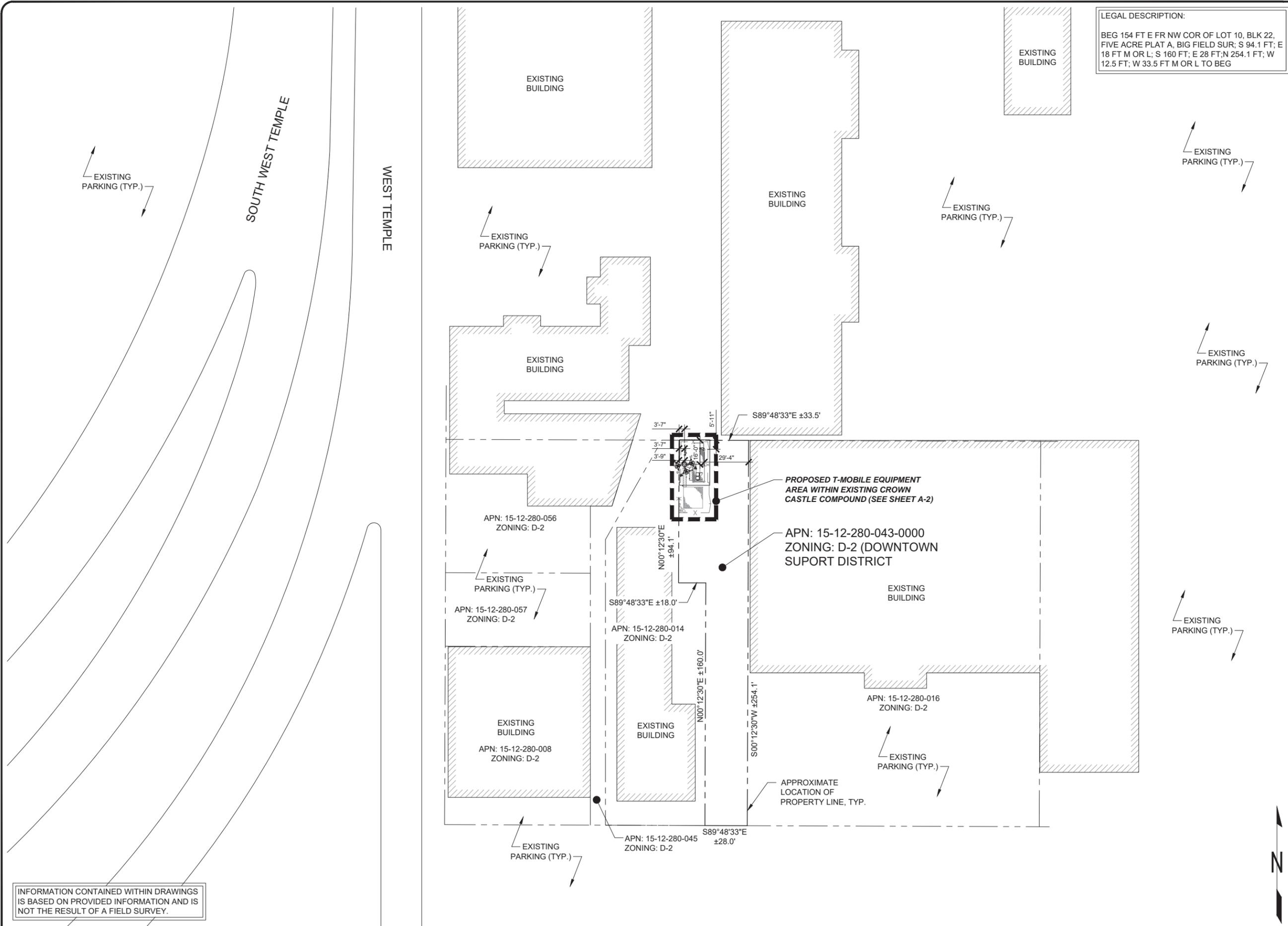
- C. CONCRETE
  - 1. STRENGTH: CONCRETE FOR THE PROJECT SHALL HAVE THE FOLLOWING ULTIMATE COMPRESSIVE STRENGTH AT AGE OF 28 DAYS:
 

LOCATION	STRENGTH	WT.	SLUMP
SLAB&FOOTING	3000psi	150pcf	4"
	NONE		
  - 2. INSPECTION: CONCRETE WITH SPECIFIED STRENGTH GREATER THAN 2500psi SHALL BE CONTINUOUSLY INSPECTED DURING PLACEMENT BY A DEPUTY INSPECTOR EMPLOYED BY A TESTING LABORATORY APPROVED BY THE BUILDING DEPT.
  - 3. REBAR GRADES: REINFORCING STEEL SHALL BE CLEAN PREFORMED BARS CONFORMING TO ASTM A615 AS FOLLOWS:
    - #4 & SMALLER BARS.....GRADE 40
    - #5 & LARGER BARS.....GRADE 60
    - ALL BARS AT CAISSON FOOTING...GRADE 60
  - 4. FOUNDATIONS & SLABS: TYPE V, LOW ALKALI, CONFORMING TO ASTM C-150. PIER/CAISSON FOOTINGS: TYPE V, LOW ALKALI, CONFORMING TO ASTM C-150.
  - 5. AGGREGATE: USED IN THE CONCRETE SHALL CONFORM TO ASTM C-33. USE ONLY AGGREGATES KNOWN NOT TO CAUSE EXCESSIVE SHRINKAGE. THE MAXIMUM SIZE AGGREGATE IN CONCRETE WORK SHALL BE THE FOLLOWING:
    - A. FOUNDATIONS & SLABS 9" OR LESS: 3/4" GRAVEL
    - B. PIER/CAISSON FOOTING: 1" GRAVEL.
  - 6. SHALL BE CLEAN AND FREE FROM DELETERIOUS AMOUNT OF ACIDS, ALKALIS, ORGANIC MATERIALS AND SHALL BE SUITABLE FOR HUMAN CONSUMPTION.
  - 7. MIXING: PREPARATION OF CONCRETE SHALL CONFORM TO ASTM C-94. NO MORE THAN 90 MINUTES SHALL ELAPSE BETWEEN CONCRETE BATCHING AND CONCRETE PLACEMENT UNLESS APPROVED BY A TESTING AGENCY.
  - 8. SEGREGATION OF AGGREGATES: CONCRETE SHALL NOT BE FLOPPED THROUGH REINFORCING STEEL (AS IN WALLS, COLUMNS, CAISSON, AND DROP CAPITALS) SO AS TO CAUSE SEGREGATION OF AGGREGATES. USE HOPPERS, CHUTES, TRUNKS OR PUMP HOSE SO THAT THE FREE UNCONFINED FALL OF CONCRETE SHALL NOT EXCEED 5 FT.
  - 9. SPLICES OF REINFORCING STEEL SHALL BE LAPPED A MINIMUM OF 30 DIAMETERS AND SECURELY WIRED TOGETHER. SPLICES OF ADJACENT REINFORCING BARS SHALL BE STAGGERED WHEREVER POSSIBLE.
  - 10. REAR CLEARANCE: MINIMUM COVERAGE FOR JOISTS, BEAMS, GIRDERS AND COLUMNS SHALL BE TO FACE OF STIRRUPS OR TIES. UNLESS OTHERWISE NOTED, CONCRETE COVERAGE FOR REINFORCING BARS TO FACE OF BAR SHALL BE AS FOLLOWS:
    - A. CONCRETE IN CONTACT WITH EARTH, UNFORMED 3"
    - B. CONCRETE IN CONTACT WITH EARTH, FORMED 2"
    - C. WALL, EXTERIOR FACE 1-1/2"
    - D. WALL, INTERIOR FACE 1"
    - E. STRUCTURAL SLABS 3/4"
    - F. JOISTS 3/4"
    - G. BEAMS, GIRDERS & COLUMNS 1-1/2"
  - 11. PENETRATIONS: NO SLEEVES OR CHASES SHALL BE PLACED IN BEAMS, SLABS, WALLS AND COLUMNS, EXCEPT THOSE SHOWN ON THE PLANS. CONTRACTOR SHALL OBTAIN PRIOR APPROVAL FOR INSTALLATIONS OF ANY ADDITIONAL SLEEVES OR CHASES. ALL PLUMBING, ELECTRICAL AND MECHANICAL OPENINGS SHALL BE SLEEVES. CORING IS NOT ALLOWED UNLESS PRIOR APPROVAL IS OBTAINED FROM THE STRUCTURAL ENGINEER.
  - 12. EMBEDDED ITEMS: CONDUIT PLACED IN A CONCRETE SLAB SHALL NOT HAVE AN OUTSIDE DIAMETER GREATER THAN 1/4 THE THICKNESS OF THE SLAB. CONDUIT SHALL NOT BE EMBEDDED IN A SLAB THAT IS LESS THAN 3-1/2" THICK, UNLESS SLAB IS LOCALLY THICKENED. MINIMUM CLEAR DISTANCE BETWEEN CONDUITS SHALL BE SIX INCHES.

- A. GENERAL
  - 1. PRECEDENCE: UNLESS OTHERWISE SHOWN OR SPECIFIED, THE FOLLOWING GENERAL NOTES SHALL APPLY. INFORMATION ON THESE DRAWINGS SHALL HAVE THE FOLLOWING PRECEDENCE.
    - A. ALL DIMENSIONS TO TAKE PRECEDENCE OVER SCALE SHOWN ON PLANS, SECTIONS AND DETAILS.
    - B. NOTES AND DETAILS ON DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS.
    - C. MATERIAL NOTES AND SPECIFICATIONS ON THE DRAWINGS SHALL TAKE PRECEDENCE OVER THE SPECIFICATIONS.
  - 2. OTHER TRADES: SEE THE ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONS NOT SHOWN.
  - 3. GENERAL DETAILS AND NOTES ON THESE SHEETS SHALL APPLY UNLESS SPECIFICALLY SHOWN OR NOTED OTHERWISE. CONSTRUCTION DETAILS NOT FULLY SHOWN OR NOTED SHALL BE SIMILAR TO DETAILS SHOWN FOR SIMILAR CONDITIONS.
  - 4. SHORING: IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO INSTALL ALL TEMPORARY BRACING AND SHORING TO INSURE THE SAFETY OF THE WORK UNTIL IT IS COMPLETED. THIS INCLUDES UNDERPINNING EXISTING FOOTINGS WHERE APPLICABLE.
  - 5. SAFETY: THESE DRAWINGS REPRESENT THE FINISHED STRUCTURE. UNLESS OTHERWISE INDICATED, THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION.
  - 6. WATERPROOFING: WATERPROOFING AND DRAINAGE DETAILS OR SPECIFICATIONS SHOWN IN THESE DRAWINGS ARE FOR GENERAL INFORMATIONAL PURPOSES ONLY. CONTRACTOR TO NOTIFY THE T-MOBILE CONSTRUCTION MANAGER AND THE ARCHITECT IF ANY INADEQUATE OR IMPROPER CONDITIONS.
- B. STEEL
  - 1. ALL STRUCTURAL STEEL SECTIONS AND WELDED PLATE MEMBERS SHALL CONFORM TO ASTM A-36 AND BE FABRICATED IN ACCORDANCE WITH THE SPECIFICATIONS OF THE AISC.
  - 2. ALL BOLTS SHALL CONFORM TO ASTM A-307 UNLESS OTHERWISE NOTED ON PLANS. HIGH STRENGTH BOLTS SHALL CONFORM TO ASTM A-325
  - 3. STEEL PIPE COLUMNS SHALL BE GRADE "B" CONFORMING TO ASTM A53.
  - 4. STEEL TUBING SHALL BE GRADE "B" CONFORMING TO ASTM A500.
  - 5. ALL WELDING SHALL BE DONE BY THE SHIELDED ARC METHOD. ALL WELDERS SHALL BE PROPERLY QUALIFIED AND BE PRE-APPROVED. SURPLUS METAL SHALL BE DRESSED OFF TO SMOOTH, EVEN SURFACES WHERE WELDS ARE NOT EXPOSED TO VIEW. ALL WELDING SHALL COMPLY WITH THE LATEST A.W.S. SPECIFICATIONS.
  - 6. THE FOLLOWING WELDING EQUIPMENT MUST BE USED:
    - A. 250 AMP WELDERS.
    - B. ROD OVENS.
    - C. GRINDERS.
  - 7. NO BUZZ BOXES SHALL BE USED.
  - 8. ALL STRUCTURAL STEEL SHALL HAVE MILL CERTIFICATION. MILL CERTIFICATION SHALL BE KEPT ON THE JOB SITE FOR EXAMINATION BY THE DESIGN ENGINEER AND THE CITY INSPECTOR.
  - 9. ALL HIGH STRENGTH BOLTS SHALL HAVE MILL CERTIFICATION. MILL CERTIFICATION SHALL BE KEPT ON THE JOB SITE FOR EXAMINATION BY THE INSPECTOR.
  - 10. STEEL THAT HAD BEEN WELDED, CUT OR SCRATCHED IN THE FIELD SHALL BE TOUCHED UP WITH COLD GALVANIZING PAINT.
  - 11. WELDING INDICATED IN THESE DRAWINGS IS DESIGNED FOR ONE HALF OF ALLOWABLE CODE STRESSES UNLESS NOTED "FULL STRESS" AT END OF WELD SYMBOL.

2 NOT USED

1 STRUCTURAL SPECIFICATIONS



**LEGAL DESCRIPTION:**  
 BEG 154 FT E FR NW COR OF LOT 10, BLK 22, FIVE ACRE PLAT A, BIG FIELD SUR; S 94.1 FT; E 18 FT M OR L; S 160 FT; E 28 FT; N 254.1 FT; W 12.5 FT; W 33.5 FT M OR L TO BEG

INFORMATION CONTAINED WITHIN DRAWINGS IS BASED ON PROVIDED INFORMATION AND IS NOT THE RESULT OF A FIELD SURVEY.

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 SL17XC652 RETAIN

**CROWN CASTLE SITE:**  
 880617  
 ALLEY

52 WEST FAYETTE  
 SALT LAKE, UT 84111  
 SALT LAKE COUNTY

58'-0" MONOPOLE

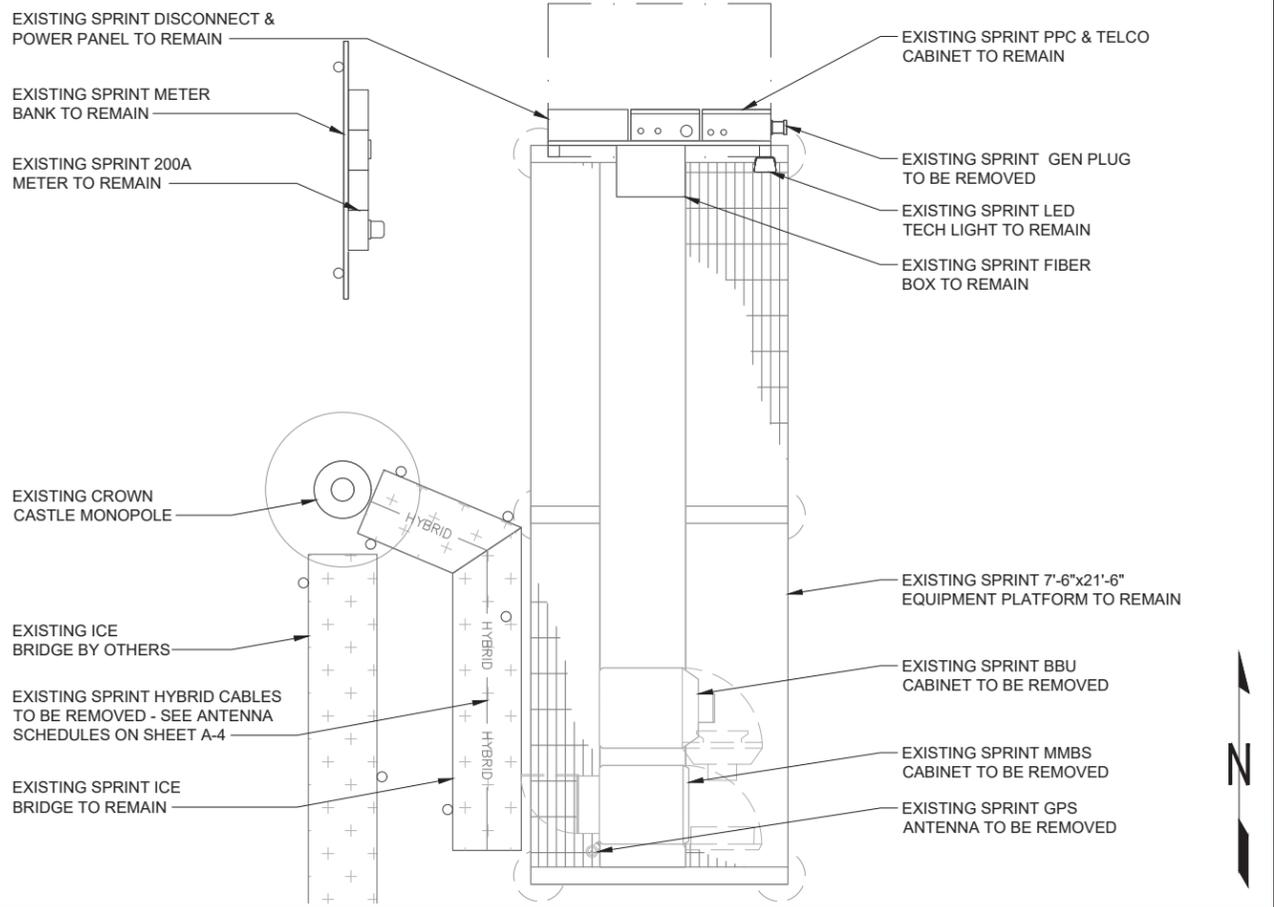
**DRAWINGS ISSUED FOR:**

REV.	DATE	DRAWN	DESCRIPTION	QA/QC
A	02/24/21	RCD	PRELIMINARY REVIEW	PD/HL
0	03/04/21	RC	100% CONSTRUCTION	PD
1	03/19/21	CAP	100% CONSTRUCTION	PD

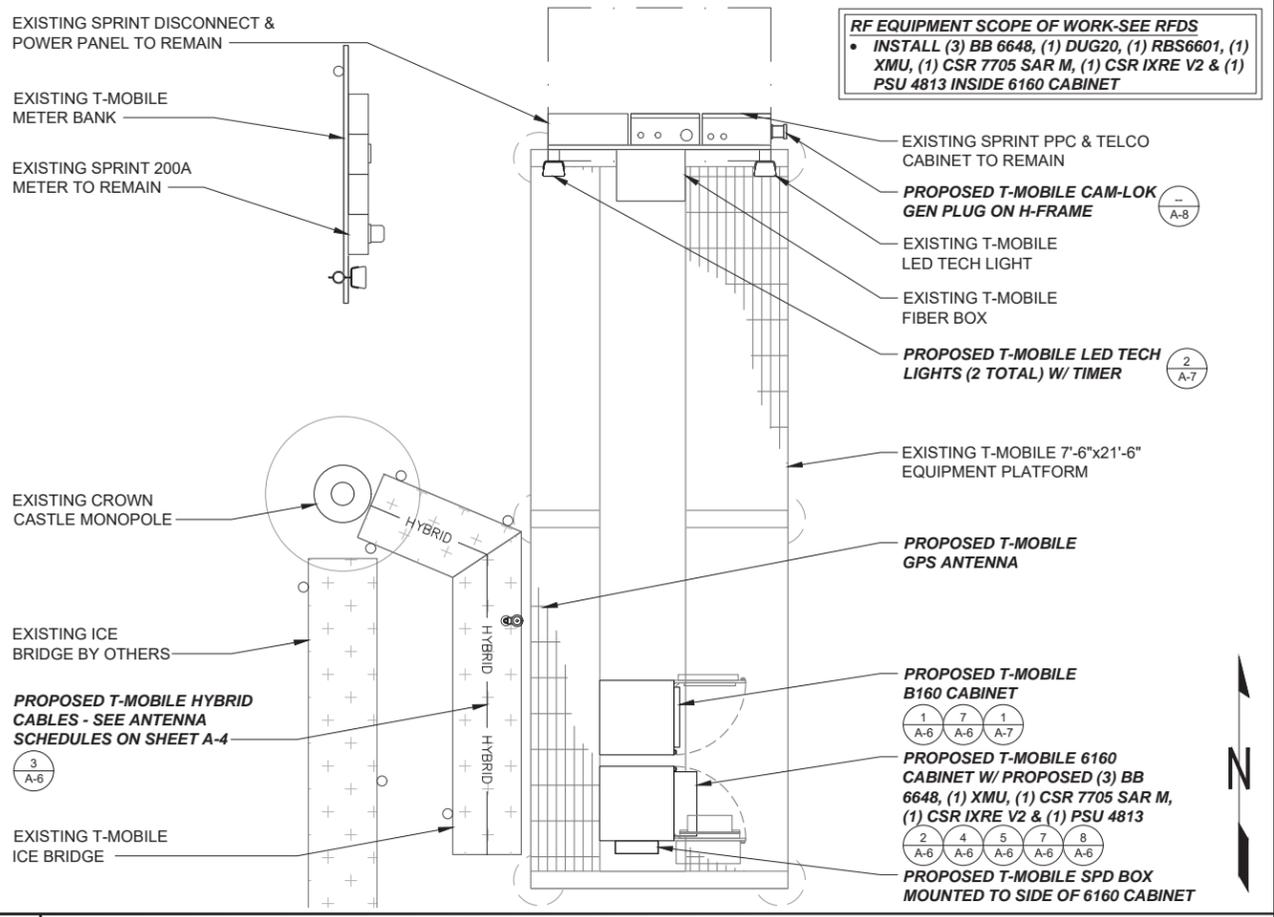


SHEET TITLE:  
**OVERALL SITE PLAN**

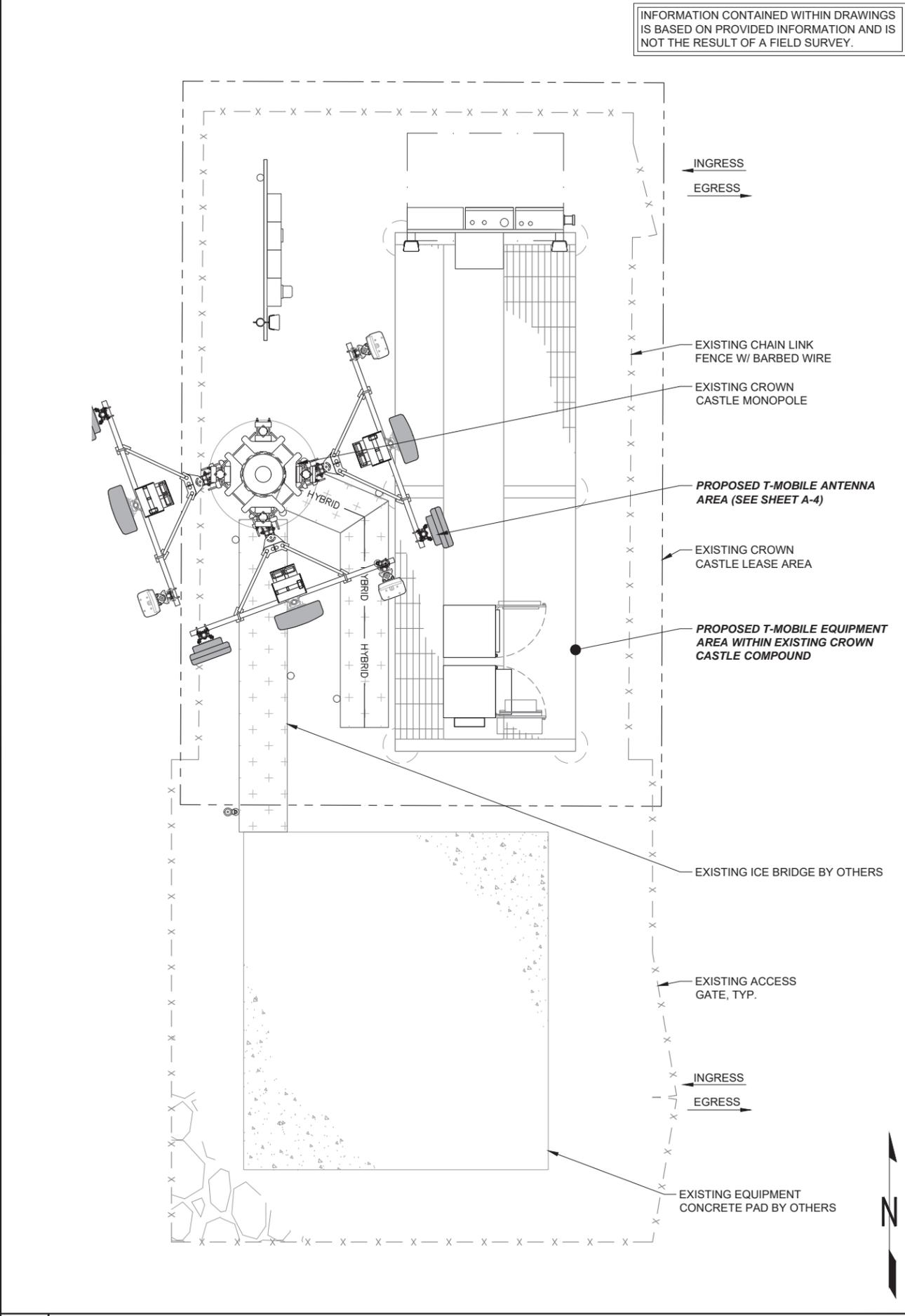
SHEET NUMBER: **A-1**      REVISION: **1**



**3 EXISTING ENLARGED EQUIPMENT PLAN**



**2 PROPOSED ENLARGED EQUIPMENT PLAN**



**1 ENLARGED SITE PLAN**

INFORMATION CONTAINED WITHIN DRAWINGS IS BASED ON PROVIDED INFORMATION AND IS NOT THE RESULT OF A FIELD SURVEY.

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DRAWINGS ISSUED FOR:

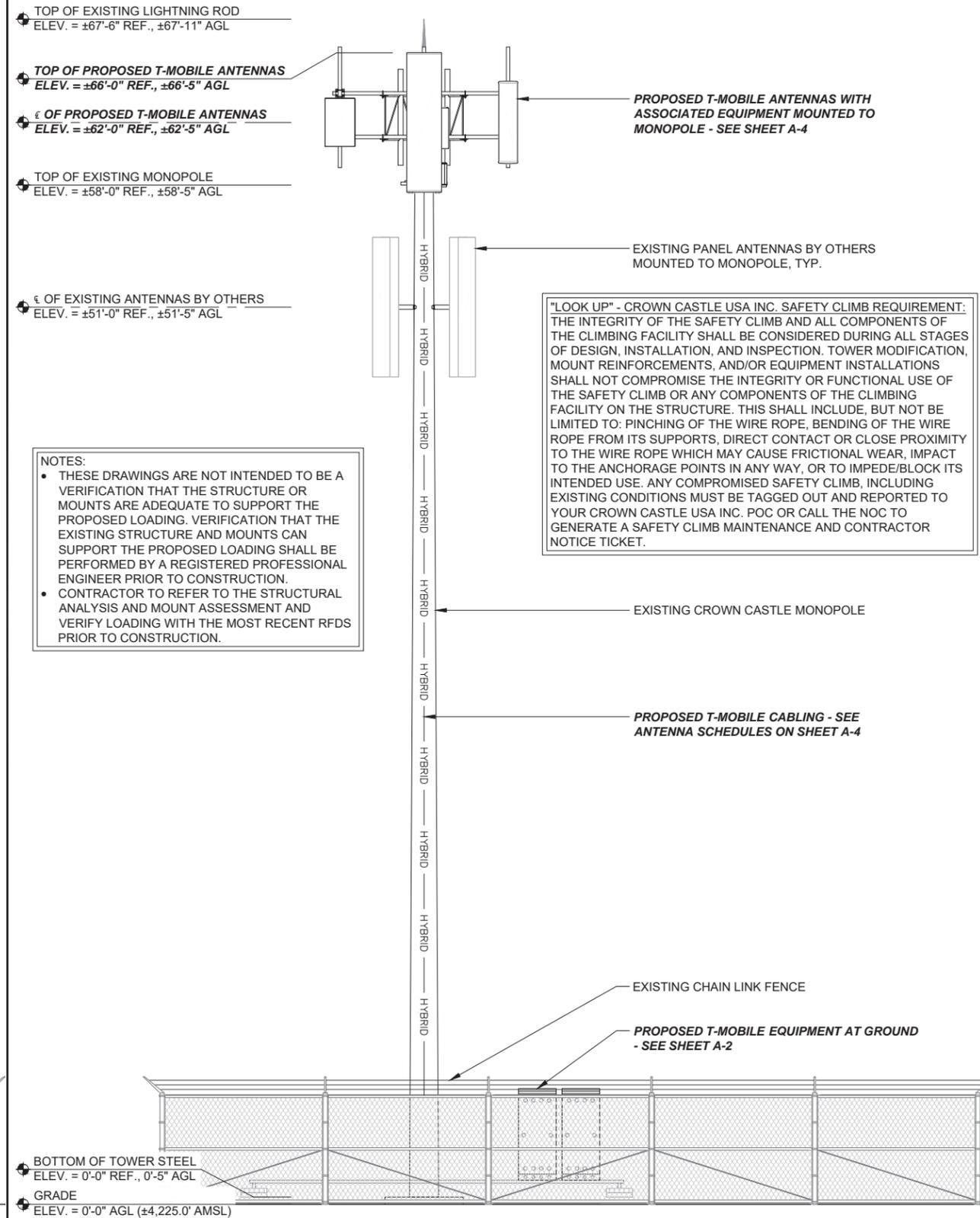
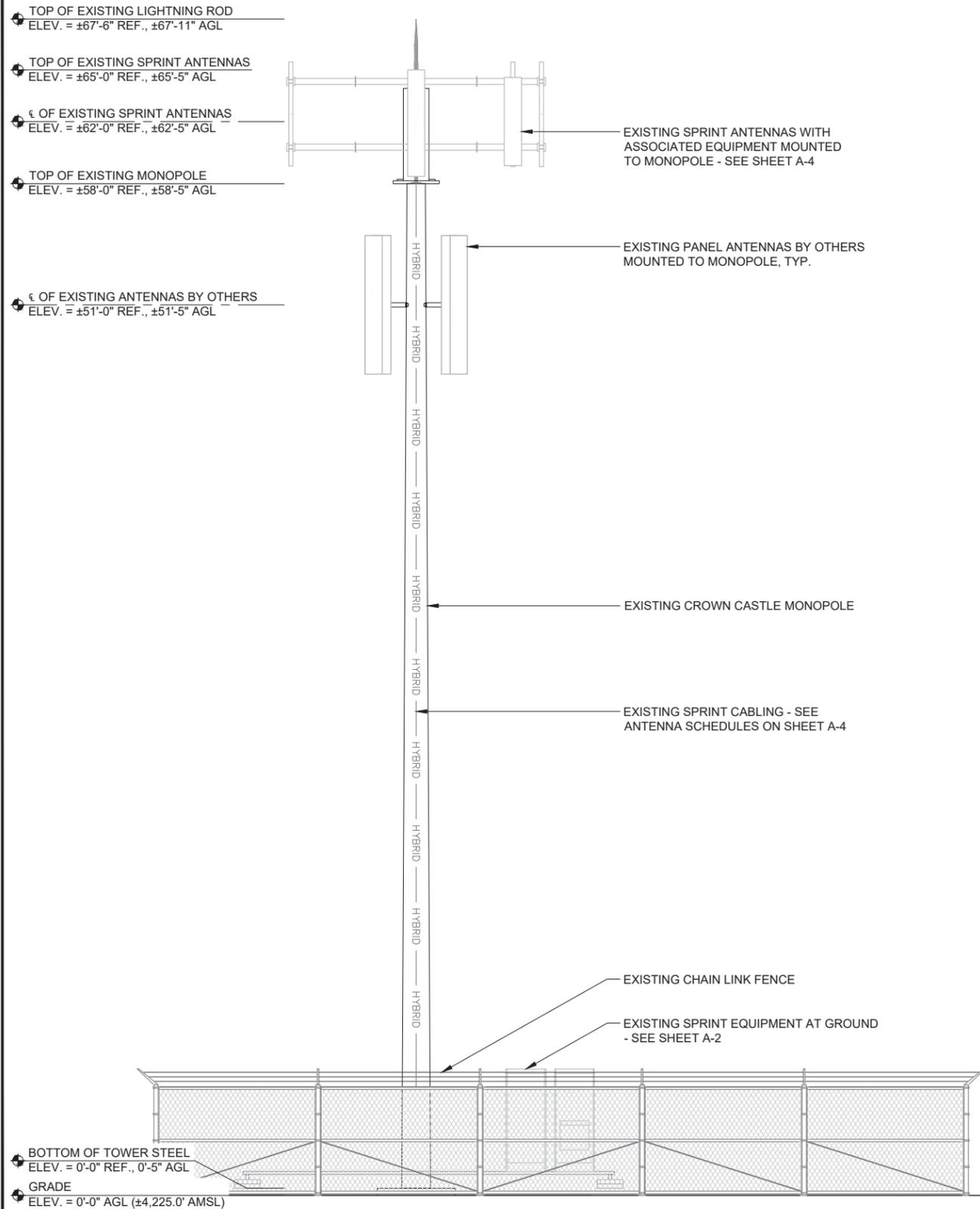
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SHEET TITLE:  
**ENLARGED SITE PLANS**

SHEET NUMBER:  
**A-2**

REVISION:  
**1**



NOTE:  
 • CONTRACTOR TO VERIFY WITH CROWN CASTLE IF THE SITE WILL REQUIRE USE OF A CRANE FOR INSTALLATION, AND APPLICABLE CRANE HEIGHT IF NEEDED, PRIOR TO CONSTRUCTION.

NOTES:  
 • THESE DRAWINGS ARE NOT INTENDED TO BE A VERIFICATION THAT THE STRUCTURE OR MOUNTS ARE ADEQUATE TO SUPPORT THE PROPOSED LOADING. VERIFICATION THAT THE EXISTING STRUCTURE AND MOUNTS CAN SUPPORT THE PROPOSED LOADING SHALL BE PERFORMED BY A REGISTERED PROFESSIONAL ENGINEER PRIOR TO CONSTRUCTION.  
 • CONTRACTOR TO REFER TO THE STRUCTURAL ANALYSIS AND MOUNT ASSESSMENT AND VERIFY LOADING WITH THE MOST RECENT RFDS PRIOR TO CONSTRUCTION.

"LOOK UP" - CROWN CASTLE USA INC. SAFETY CLIMB REQUIREMENT:  
 THE INTEGRITY OF THE SAFETY CLIMB AND ALL COMPONENTS OF THE CLIMBING FACILITY SHALL BE CONSIDERED DURING ALL STAGES OF DESIGN, INSTALLATION, AND INSPECTION. TOWER MODIFICATION, MOUNT REINFORCEMENTS, AND/OR EQUIPMENT INSTALLATIONS SHALL NOT COMPROMISE THE INTEGRITY OR FUNCTIONAL USE OF THE SAFETY CLIMB OR ANY COMPONENTS OF THE CLIMBING FACILITY ON THE STRUCTURE. THIS SHALL INCLUDE, BUT NOT BE LIMITED TO: PINCHING OF THE WIRE ROPE, BENDING OF THE WIRE ROPE FROM ITS SUPPORTS, DIRECT CONTACT OR CLOSE PROXIMITY TO THE WIRE ROPE WHICH MAY CAUSE FRICTIONAL WEAR, IMPACT TO THE ANCHORAGE POINTS IN ANY WAY, OR TO IMPEDE/BLOCK ITS INTENDED USE. ANY COMPROMISED SAFETY CLIMB, INCLUDING EXISTING CONDITIONS MUST BE TAGGED OUT AND REPORTED TO YOUR CROWN CASTLE USA INC. POC OR CALL THE NOC TO GENERATE A SAFETY CLIMB MAINTENANCE AND CONTRACTOR NOTICE TICKET.

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 SALT LAKE COUNTY

58'-0" MONOPOLE

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SHEET TITLE:  
**WEST ELEVATIONS**

SHEET NUMBER:  
**A-3**

REVISION:  
**1**

EXISTING ANTENNA / CABLE SCHEDULE

MOUNT SECTOR	MOUNT POSITION	RFDS POSITION	RAD CENTER	ANTENNA				QTY.	RRH		TMA/COMBINER/FILTER		HYBRID CABLE (HCS)		COAX CABLE	
				MODEL	SIZE	AZIMUTH	M. TILT		MODEL	QTY.	MODEL	QTY.	TYPE	LENGTH	QTY.	TYPE
ALPHA			62'-0"	ET-X-WM-18-65-8P	61.0"	15°	--	1	RRH-V3 (2500)	1	8T8R 2.5G (2500 MHz)					
			62'-0"	ET-X-TS-70-15-62-18-IR-RD	72.0"	15°	--	1,1	RRH-C2A (800), RRH-P4 (1900)	2	FIM800CAB-X (800)					
			62'-0"	ET-X-WM-18-65-8P	61.0"	120°	--	1	RRH-V3 (2500)	--	--					
BETA			62'-0"	ET-X-TS-70-15-62-18-IR-RD	72.0"	120°	--	1,1	RRH-C2A (800), RRH-P4 (1900)	2	FIM800CAB-X (800)	3	1-5/8"	±120'-0"	--	--
			62'-0"	ET-X-WM-18-65-8P	61.0"	240°	--	1	RRH-V3 (2500)	--	--					
			62'-0"	ET-X-TS-70-15-62-18-IR-RD	72.0"	240°	--	1,1	RRH-C2A (800), RRH-P4 (1900)	2	FIM800CAB-X (800)					
GAMMA			62'-0"	ET-X-WM-18-65-8P	61.0"	--	--	--	--	--	--					
			62'-0"	ET-X-TS-70-15-62-18-IR-RD	72.0"	--	--	--	--	--	--					
			62'-0"	ET-X-WM-18-65-8P	61.0"	--	--	--	--	--	--					

NOTES

- CONTRACTOR IS TO REFER TO T-MOBILE'S MOST CURRENT RADIO FREQUENCY DATA SHEET (RFDS) PRIOR TO CONSTRUCTION.
- CABLE LENGTH IS APPROXIMATE. CONTRACTOR TO FIELD VERIFY CABLE LENGTHS PRIOR TO ORDERING, FABRICATION, OR INSTALLATION OF CABLES.
- PROPOSED EQUIPMENT IS INDICATED BY **BOLD** TEXT.

PROPOSED ANTENNA / CABLE SCHEDULE

MOUNT SECTOR	MOUNT POSITION	RFDS POSITION	RAD CENTER	ANTENNA				QTY.	RRH		TMA/COMBINER/COVP		HYBRID CABLE (HCS)		COAX CABLE	
				MODEL	SIZE	AZIMUTH	M. TILT		MODEL	QTY.	MODEL	QTY.	TYPE	LENGTH	QTY.	TYPE
ALPHA		A1	62'-0"	<b>AIR32 B2A/B66AA (KRD901146-1)</b>	<b>75.8"</b>	<b>70°</b>	<b>0°</b>	--	--	--	--					
		A2	62'-0"	<b>APXVAA4L24_43-U-NA20</b>	<b>95.9"</b>	<b>70°</b>	<b>0°</b>	<b>1,1,1</b>	<b>4415 B66A,4415 B25,4449 B71+B85</b>	--	--					
		A3	62'-0"	<b>AIR6449 B41</b>	<b>33.1"</b>	<b>70°</b>	<b>0°</b>	--	--	--	--					
BETA		B1	62'-0"	<b>AIR32 B2A/B66AA (KRD901146-1)</b>	<b>75.8"</b>	<b>160°</b>	<b>0°</b>	--	--	--						
		B2	62'-0"	<b>APXVAA4L24_43-U-NA20</b>	<b>95.9"</b>	<b>160°</b>	<b>0°</b>	<b>1,1,1</b>	<b>4415 B66A,4415 B25,4449 B71+B85</b>	--	--	4	<b>HCS 6x24 4 AWG (40m)</b>	±120'-0"	--	--
		B3	62'-0"	<b>AIR6449 B41</b>	<b>33.1"</b>	<b>160°</b>	<b>0°</b>	--	--	--	--					
GAMMA		C1	62'-0"	<b>AIR32 B2A/B66AA (KRD901146-1)</b>	<b>75.8"</b>	<b>250°</b>	<b>0°</b>	--	--	--						
		C2	62'-0"	<b>APXVAA4L24_43-U-NA20</b>	<b>95.9"</b>	<b>250°</b>	<b>0°</b>	<b>1,1,1</b>	<b>4415 B66A,4415 B25,4449 B71+B85</b>	--	--					
		C3	62'-0"	<b>AIR6449 B41</b>	<b>33.1"</b>	<b>250°</b>	<b>0°</b>	--	--	--	--					

NOTE: MOUNT SECTORS ARE CLOCKWISE. RFDS POSITIONS ARE THE ANTENNA POSITIONS LISTED IN THE RFDS, AND MAY DIFFER FROM THE ORDER IN WHICH EXISTING ANTENNAS ARE INSTALLED. THE METHOD FOR WHAT ORDER ANTENNAS ARE LISTED IN THE RFDS VARIES DEPENDING ON THE MARKET.



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58'-0" MONOPOLE

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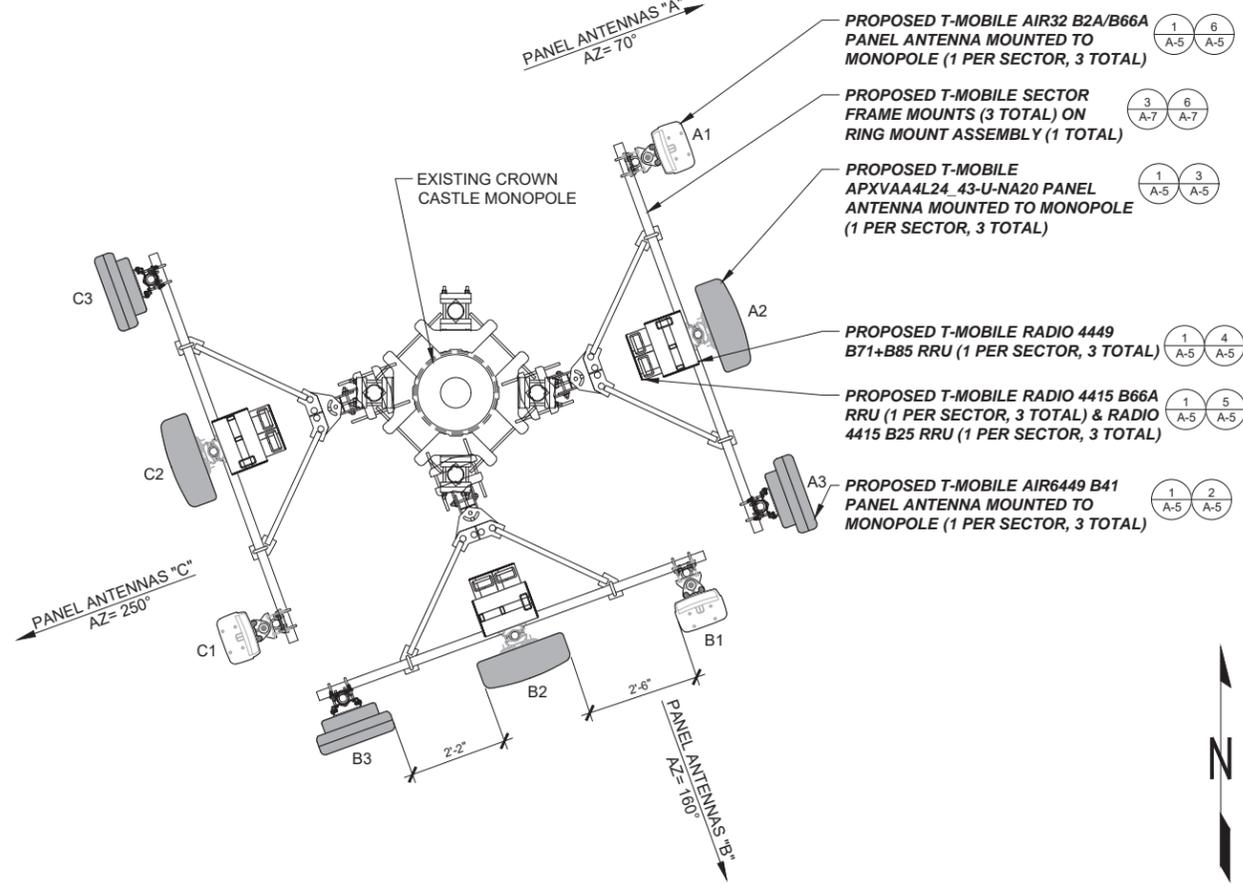
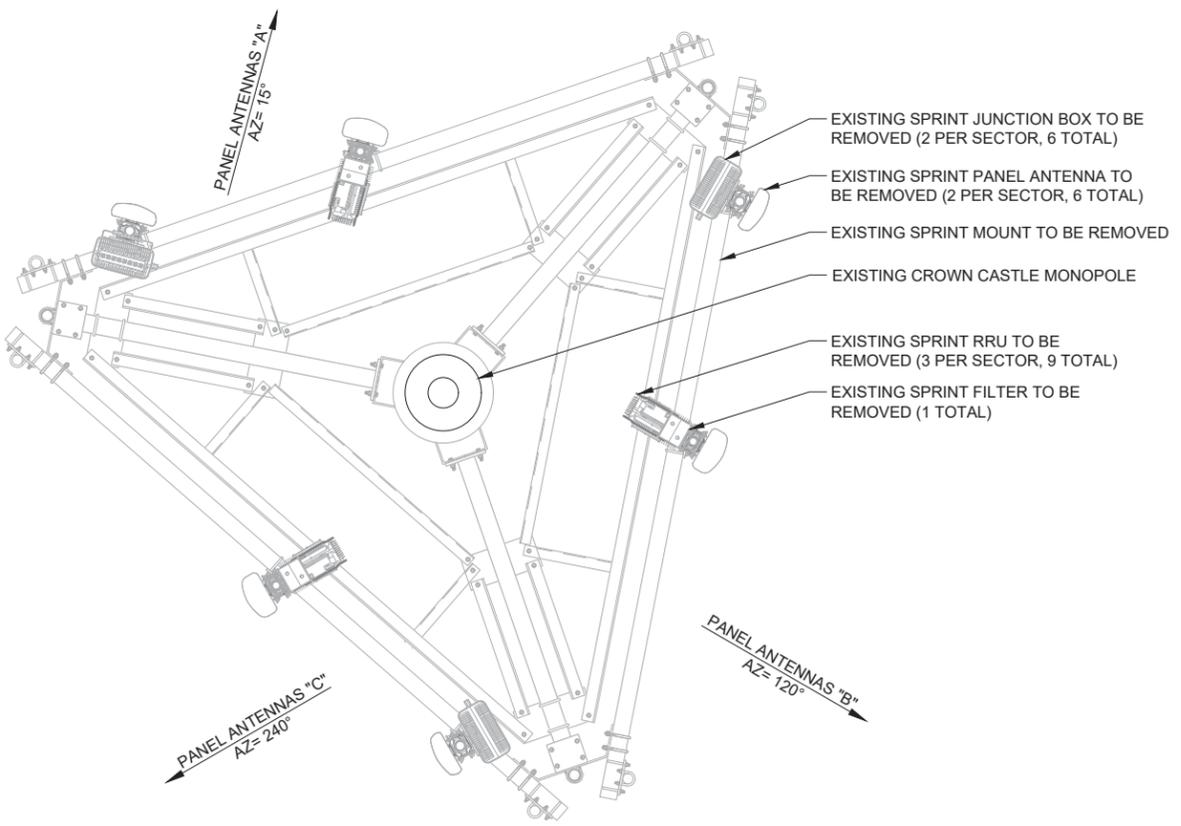


SHEET TITLE:  
**ANTENNA PLANS  
& RF SCHEDULES**

SHEET NUMBER:  
**A-4**

REVISION:  
**1**

3 RF SCHEDULES



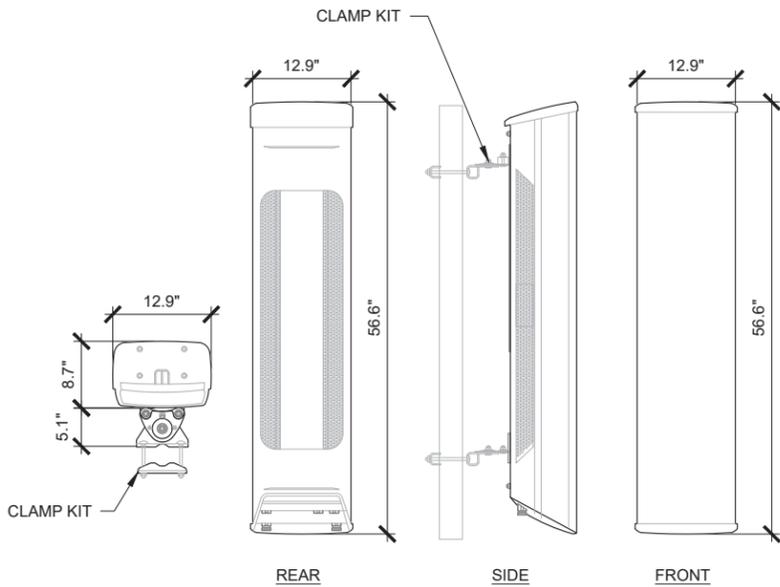
2 EXISTING ANTENNA PLAN

22"x34" SCALE: 1/2" = 1'-0"  
11"x17" SCALE: 1/4" = 1'-0"

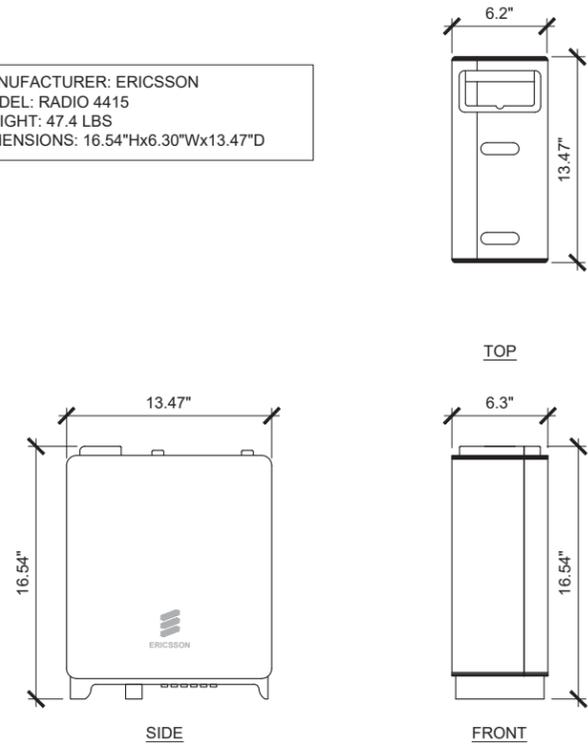
1 PROPOSED ANTENNA PLAN

22"x34" SCALE: 1/2" = 1'-0"  
11"x17" SCALE: 1/4" = 1'-0"

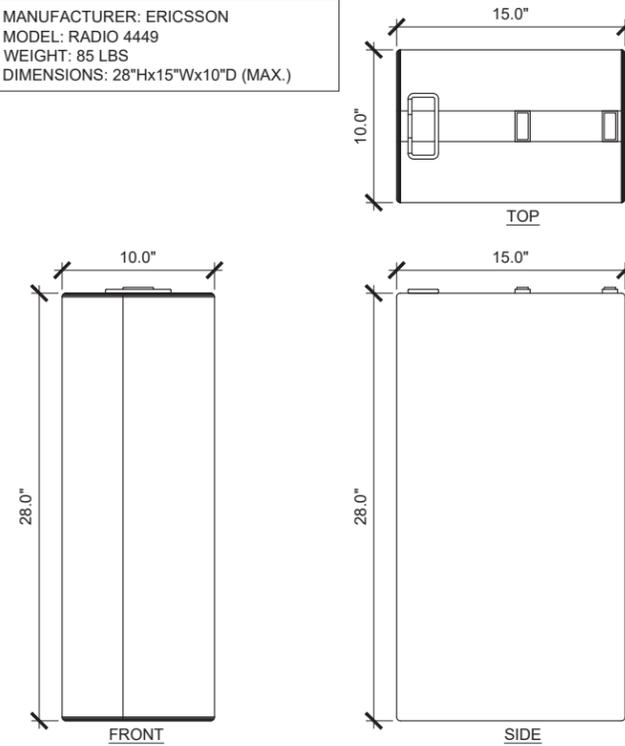
MANUFACTURER: ERICSSON  
 MODEL: AIR32 B2A/B66Aa  
 WEIGHT: 132.2 LBS  
 DIMENSIONS: 56.6" X 12.9" X 8.7"  
 FREQUENCY: REFER TO RF DATA SHEET



MANUFACTURER: ERICSSON  
 MODEL: RADIO 4415  
 WEIGHT: 47.4 LBS  
 DIMENSIONS: 16.54"Hx6.30"Wx13.47"D



MANUFACTURER: ERICSSON  
 MODEL: RADIO 4449  
 WEIGHT: 85 LBS  
 DIMENSIONS: 28"Hx15"Wx10"D (MAX.)



6 ANTENNA DETAIL

NOT TO SCALE

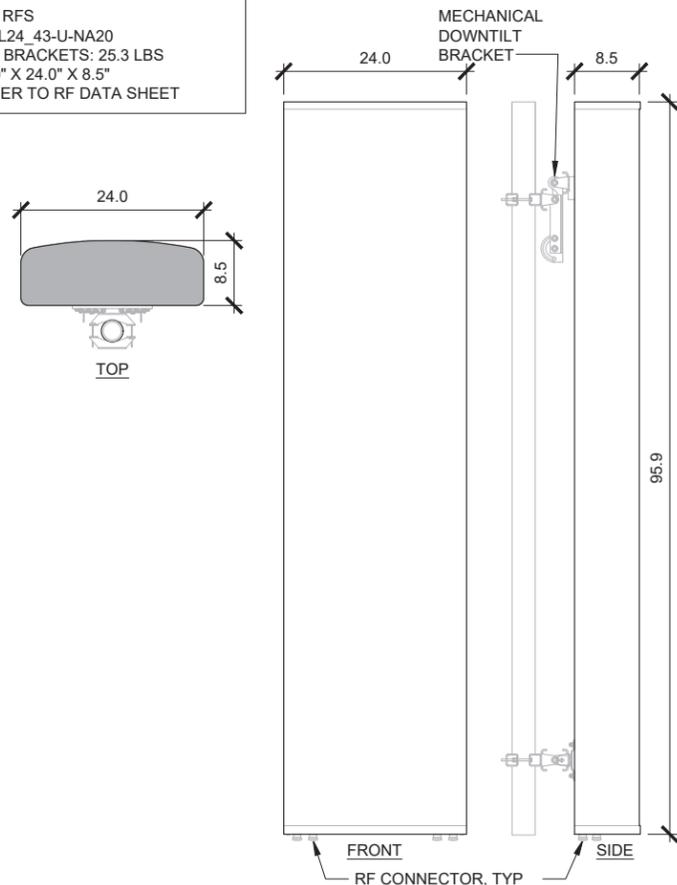
5 RADIO 4415 DETAIL

NOT TO SCALE

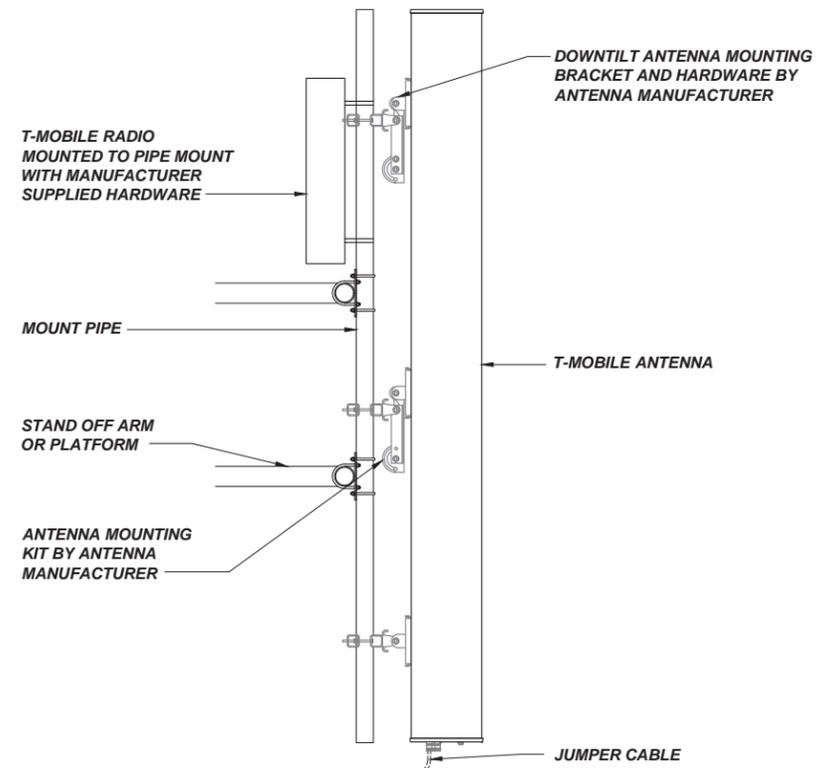
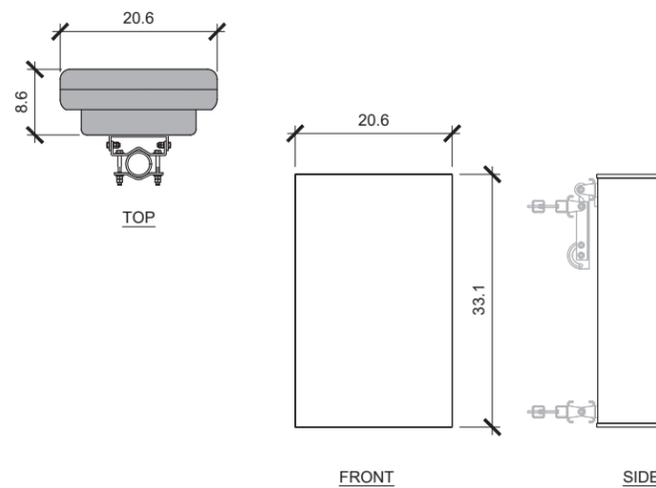
4 RADIO 4449 DETAIL

NOT TO SCALE

MANUFACTURER: RFS  
 MODEL: APXVAA4L24\_43-U-NA20  
 WEIGHT: 128 LBS; BRACKETS: 25.3 LBS  
 DIMENSIONS: 95.9" X 24.0" X 8.5"  
 FREQUENCY: REFER TO RF DATA SHEET



MANUFACTURER: ERICSSON  
 MODEL: AIR6449 B41  
 WEIGHT: 104.0 LBS  
 DIMENSIONS: 33.1" X 20.6" X 8.6"  
 FREQUENCY: REFER TO RF DATA SHEET



NOTE: ROTATE FRAME OF MOUNT TO MATCH DEGREE LINE WHERE APPLICABLE.

3 ANTENNA DETAIL

NOT TO SCALE

2 ANTENNA DETAIL

NOT TO SCALE

1 MOUNTING DETAIL

NOT TO SCALE

**T-Mobile**

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 SL17XC652 RETAIN

CROWN CASTLE SITE:  
 880617  
 ALLEY

52 WEST FAYETTE  
 SALT LAKE, UT 84111  
 SALT LAKE COUNTY

58'-0" MONOPOLE

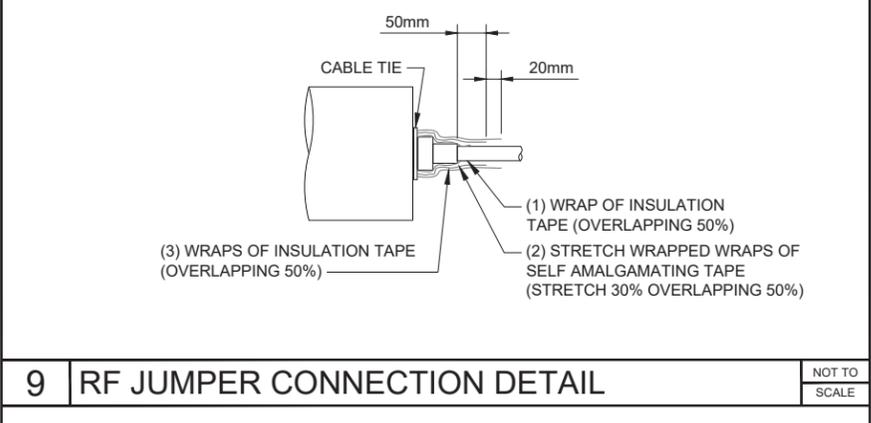
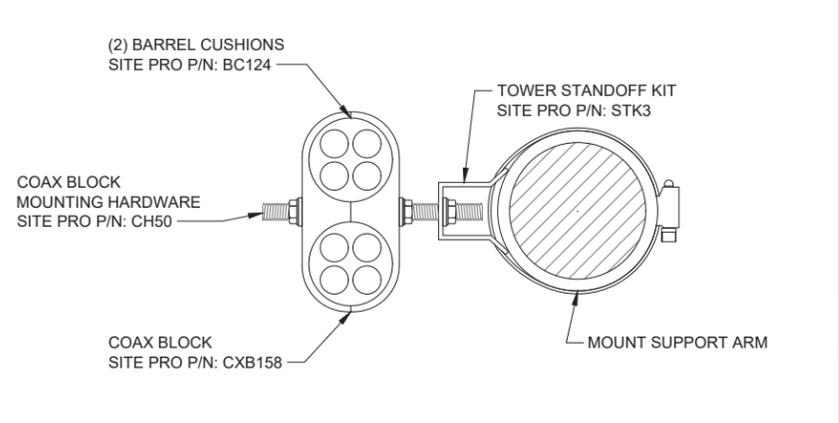
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0	03/04/21	RC	100% CONSTRUCTION	PD
1	03/19/21	CAP	100% CONSTRUCTION	PD



SHEET TITLE:  
 EQUIPMENT  
 DETAILS

SHEET NUMBER: **A-5** REVISION: **1**



FIBER/HCS LABELING FOR NEW SITES

INITIAL INSTALLATION ON NEW BUILD SITES (FIBER STRAND COLOR):

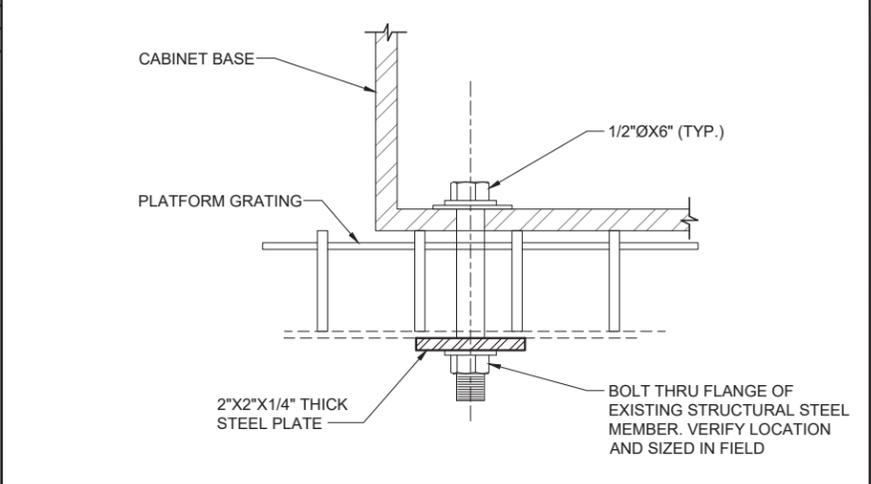
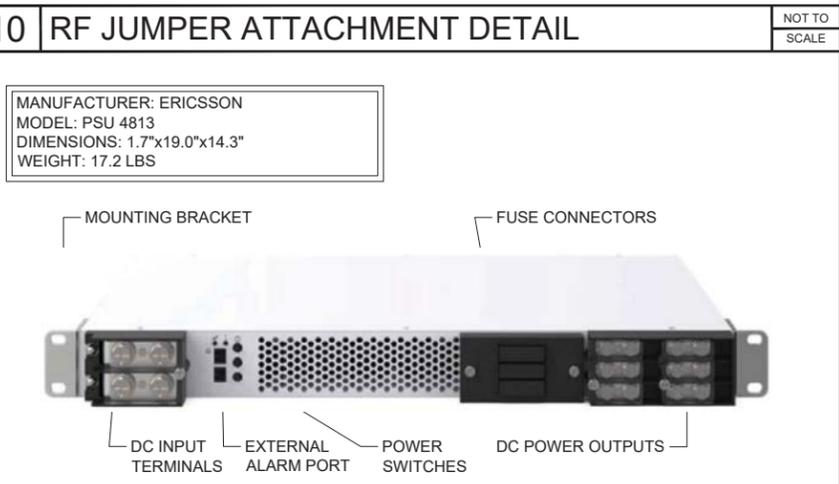
- U1900 (BAND 2) **RED & BLUE**
  - DATA PORT 1 = **RED**
  - DATA PORT 2 = **BLUE**
- L2100 (BAND 4 & 66) **GREEN & YELLOW**
  - DATA PORT 1 = **GREEN**
  - DATA PORT 2 = **YELLOW**
- L700 (BAND 12) **WHITE & BLACK**
  - DATA PORT 1 = **WHITE**
  - DATA PORT 2 = **BLACK**

IF THE SITE ONLY HAS 600, USE THE 700 FIBERS FOR THAT. IF USING A NEW HCS FOR THE ADDITION OF 600, USE 700 FIBER STRAND COLORS.

ALSO LABEL THE FIBER IN THE CABINET FOR DU CONNECTIONS:

- ALPHA/BETA/GAMMA/DELTA, B4-B66 DATA PORT 1 OR 2
- ALPHA/BETA/GAMMA/DELTA, B2 DATA PORT 1 OR 2
- ALPHA/BETA/GAMMA/DELTA, B12 DATA PORT 1 OR 2
- ALPHA/BETA/GAMMA/DELTA, B71 DATA PORT 1 OR 2

WHEN USING MULTIPLE HCS TRUNK LINES, LABEL THEM NUMERICALLY WITH PURPLE TAPE BAND(S). FOR EXAMPLE, THE 2ND HCS WILL BE "HCS 2" WITH (2) PURPLE TAPE BANDS.

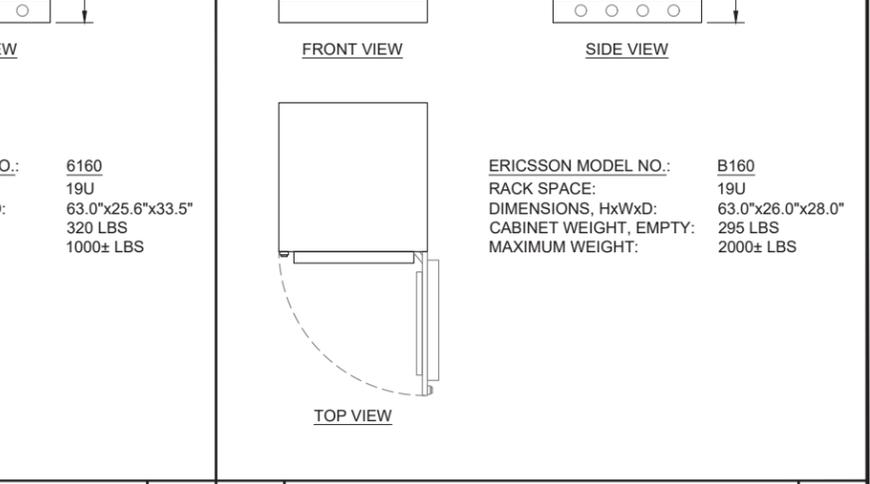
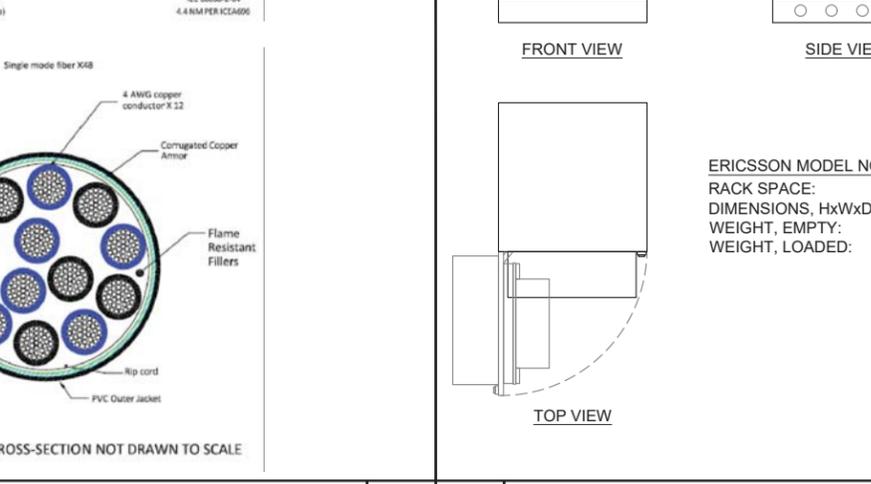
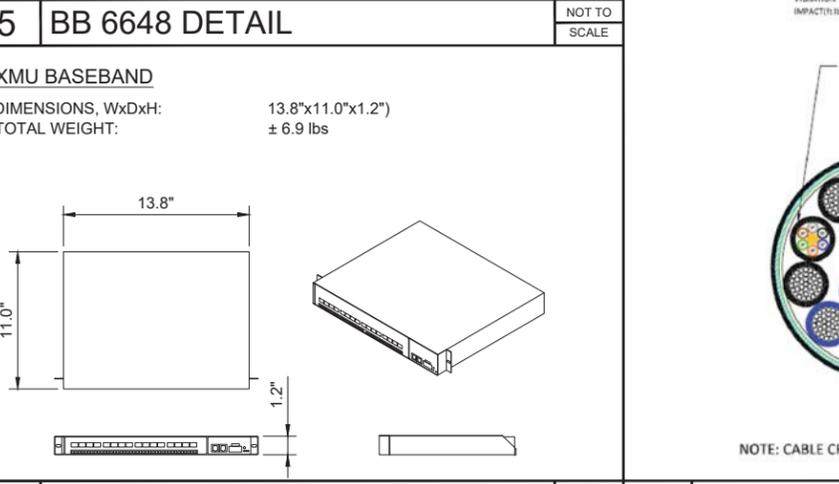
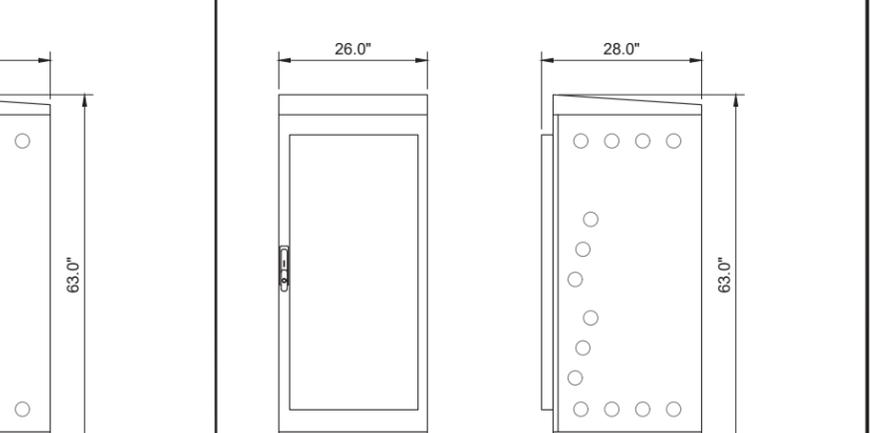
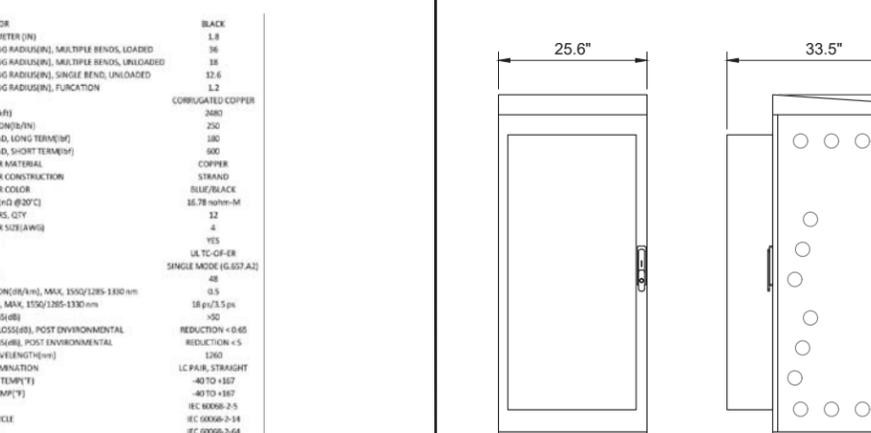
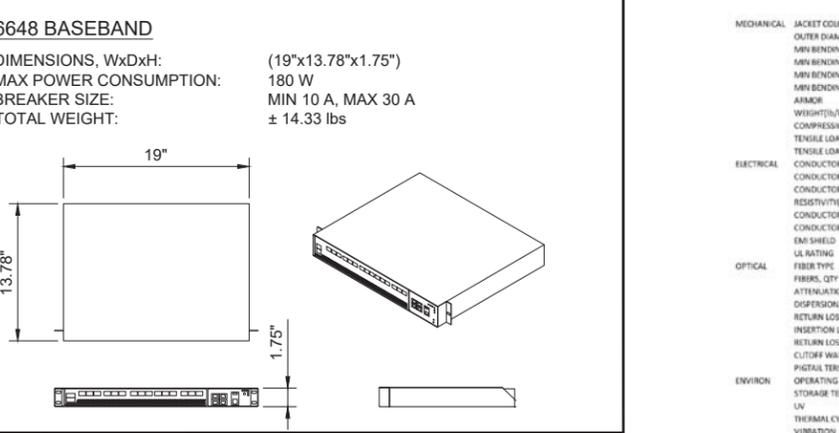


NOT TO SCALE

10 RF JUMPER ATTACHMENT DETAIL NOT TO SCALE

9 RF JUMPER CONNECTION DETAIL NOT TO SCALE

6 HCS/FIBER STRAND COLOR CODING NOT TO SCALE



4 XMU DETAIL NOT TO SCALE

3 HYBRID CABLE DETAIL NOT TO SCALE

2 6160 CABINET DETAIL NOT TO SCALE

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SL17XC652 RETAIN

CROWN CASTLE SITE:  
880617  
ALLEY

52 WEST FAYETTE  
SALT LAKE, UT 84111  
SALT LAKE COUNTY

58'-0" MONOPOLE

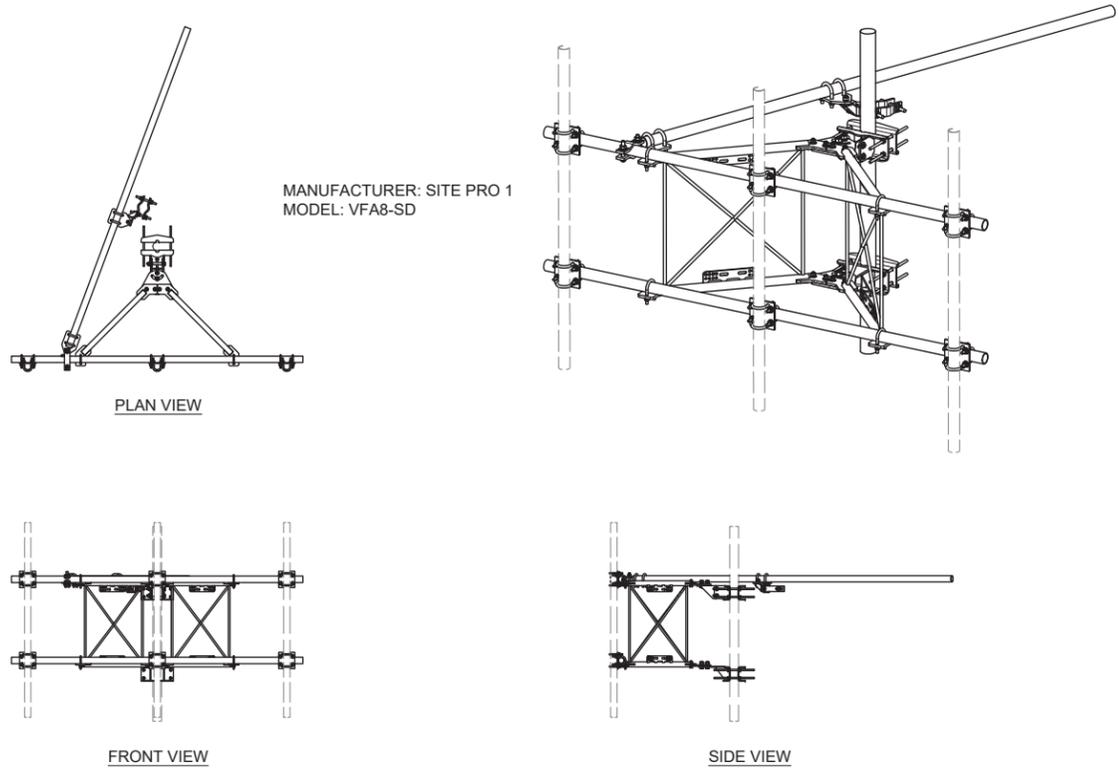
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SHEET TITLE:  
EQUIPMENT  
DETAILS

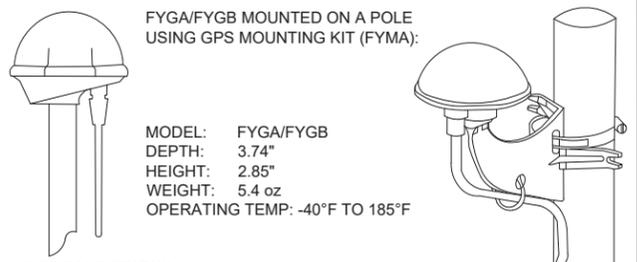
SHEET NUMBER:  
**A-6**

REVISION:  
**1**



**6 ANTENNA SECTOR FRAME MOUNT SPECIFICATION**

NOT TO SCALE



**NOKIA BASE STATION:  
GPS GLONASS RECEIVER ANTENNA (FYGA/FYGB) OPERATION**

FLEXI MULTIRADIO BTS USES GPS (GLOBAL POSITIONING SYSTEM) OR GNSS (GLOBAL NAVIGATION SATELLITE SYSTEM) AS A SOURCE FOR FREQUENCY AND TIME SYNCHRONIZATION. A GPS/GLONASS ANTENNA WITH AN INTEGRATED RECEIVER IS INSTALLED OUTSIDE FOR SATELLITE VISIBILITY, AND IS DIRECTLY CONNECTED TO THE SYSTEM MODULE. DC POWER FEED FOR THE RECEIVER IS SUPPLIED THROUGH THE COMBINED POWER AND DATA CABLE. THE OPERATING TEMPERATURE RANGE IS FROM -40C TO +85C (-40F TO +185F). NOTE: FYGA/FYGB IS SET TO SUPPORT BOTH GPS AND GLONASS SATELLITE SYSTEMS. TO SUPPORT GLONASS ONLY MODE, FYGA/FYGB HAS TO OPERATE WITH NOKIA APPROVED FIRMWARE V2.11 OR LATER.

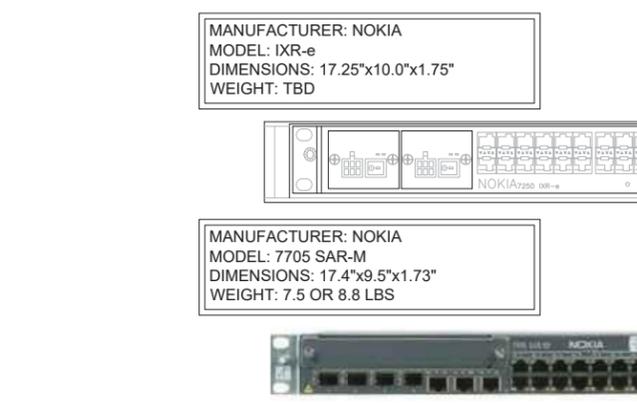
**4 GPS ANTENNA DETAIL**

NOT TO SCALE

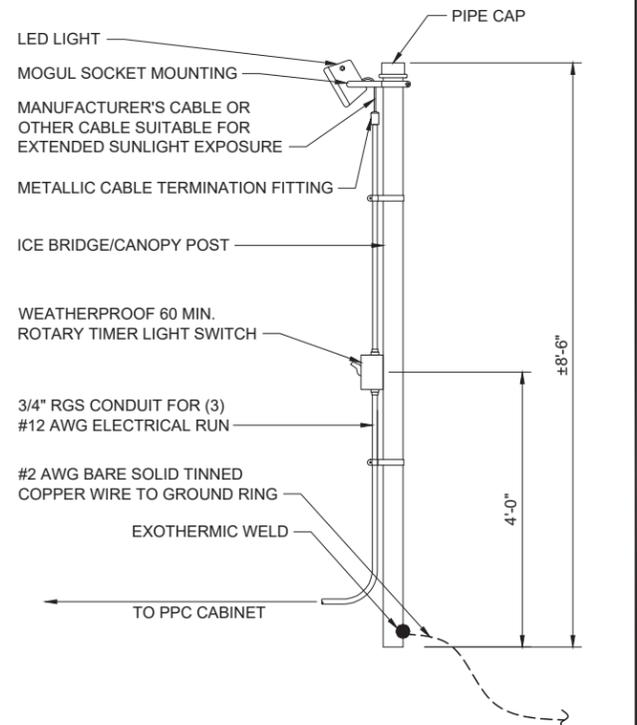
**3 RING MOUNT SPECIFICATION**

NOT TO SCALE

**8 NOT USED**

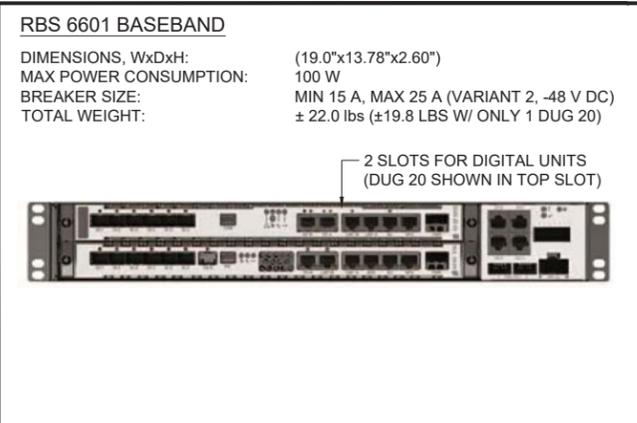


**5 ROUTER DETAIL**



**2 WORK LIGHT W/ TIMER DETAIL**

NOT TO SCALE



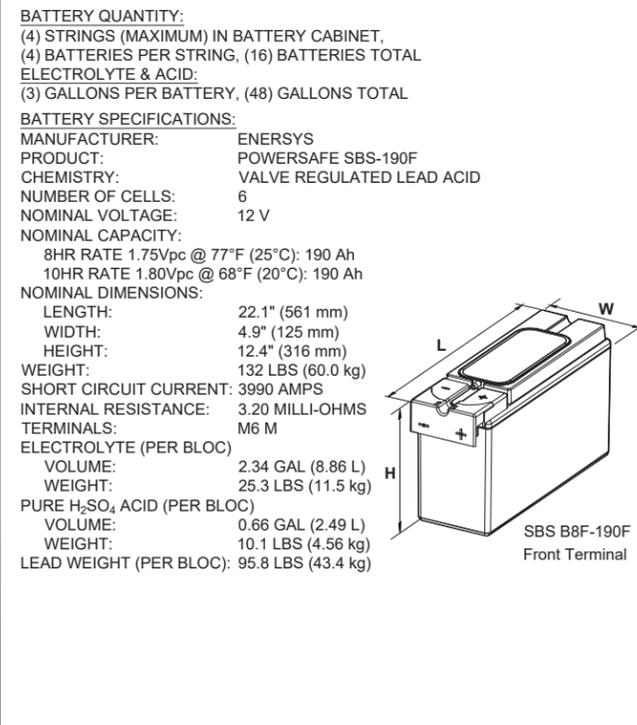
**7 RBS 6601 & DUG 20 DETAIL**

NOT TO SCALE



**6 BATTERY SPECIFICATIONS**

NOT TO SCALE



**1 BATTERY SPECIFICATIONS**

NOT TO SCALE

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SALT LAKE COUNTY

58'-0" MONOPOLE

**DRAWINGS ISSUED FOR:**

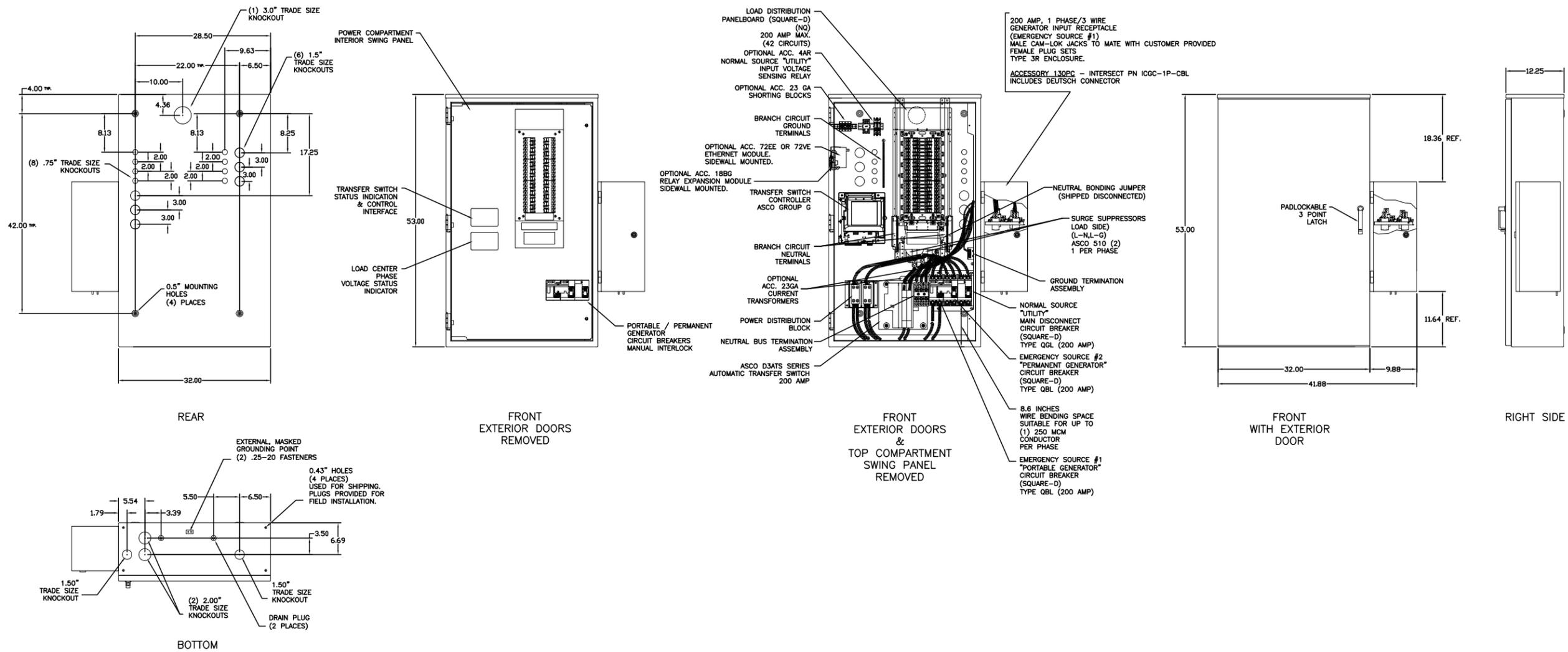
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**SHEET TITLE:**  
EQUIPMENT  
DETAILS

**SHEET NUMBER:**  
A-7

**REVISION:**  
1

ASCO D300L Series Power Transfer Load Center Rated 200 Amps, 240 Vac max., Single Phase/3 Wire, Type 3R Enclosure



Notes:

- Power Transfer Load Center constructed in accordance with UL 67 Standard for Panelboards Suitable for Use as Service Equipment.
- Automatic Power Transfer Switch: ASCO D3ATS, 2 Pole, 200 Amp, 240 Vac max. UL Listed to UL 1008 Standard for Transfer Switching Equipment.  
Transfer Controller - ASCO Group G Automatic Transfer Switch Controller including: Automatic Engine Starting Contacts, Single Phase voltage sensing of Normal and Emergency sources, Frequency sensing of Emergency source.
- Short Circuit Ratings: Accessory 117CB10 (Standard)  
(Main): Normal Source - 42kA at 240 Vac max. (Utility Main Disconnect circuit breaker), Square-D Cat. Type QG, 2 pole, 200 amps.  
Emergency Source #1 (Portable Generator Input circuit breaker) - Using Standard Acc. 130PI Generator Input Receptacle: 10kA at 240 Vac, UL 1008 Listed Transfer Switch Accessory connected to Square-D Cat. Type QB, 2 Pole, 200 Amps.  
Emergency Source #2 (Permanent Generator Input circuit breaker) - 10kA at 240 Vac, Square-D Cat. Type QB, 2 Pole, 200 Amps.  
(Branch): Branch ratings as follows when used with the specified branch devices.  
42kA using Sq-D QH or QHB rated: 1 pole 15-30a, 2 pole 15-30a, 3 pole 15-30a.  
22kA using Sq-D QO-VH or QOB-VH rated: 2 pole 150a, 3 pole 35-150a.  
10kA using Sq-D QO or QOB rated: 1 pole 15-70a, 2 pole 15-125a, 3 pole 15-30a.
- Panelboard: Square-D NQ, 225 amps max., 240 Vac, single phase with 100% rated neutral. 42 Circuits, accepts bolt-on or plug-on branch devices.

- Accessory 4AR (Optional) - Voltage Sensing Relay to indicate the presence of the Normal Source "Utility" voltage ahead of the Normal Source main disconnect circuit breaker, regardless of the position of the circuit breaker.
- Accessory 11BE (Optional) - A Four-Function Software Bundle that provides the following functions:  
- Serial Communications (RS-485)  
- Programmable Engine Exerciser with Battery Back-up  
- Event Log  
- Common alarm signal capability on group g controller "OP1" output.
- Accessory 18BG (Optional) - Signals the availability of the Normal & Emergency sources when provided. Output contacts "RL5" (Emergency Source Available) and "RL6" (Normal Source Available) change position when the source is acceptable.
- Accessory 23GA (Optional) - Single Phase Current Sensing Module with current transformers and shunting blocks. Phase current measurements are available for display on the Group G Controller.
- Accessory 72EE OR 72VE (Optional) - ASCO 5140 Ethernet Connectivity Module. Provides remote ATS and Generator control, Monitoring and Connectivity Features via integrated web page dashboards.
- Accessory 73TL1 (Standard) - Transient Surge Protection - Connected to line side of panelboard for L-N (L-G if used as service equipment) mode protection. ASCO 510 Series TVSS with phase monitoring, alarm module, and load phase voltage availability indicator's (LED).

- Accessory 117B (Standard) - Generator Selector Circuit Breakers (Emergency Source #1 & Emergency Source #2) - One each two pole, 200A circuit breaker for two separate generator inputs. UL 1008 approved manual slide type interlock to permit connection of only one generator to the transfer switch Emergency Source input.
- Accessory 130PC (Standard) - Generator Input Receptacle (Emergency Source #1) Rated 200 amps, 1 phase/3 wire with ground. Constructed with male Cam-Lok connectors, 1 per phase, neutral and ground. Color coded (Line 1-Black, Line 2-Red, Neutral-White, ground-Green). Accepts mating female plugs, (customer provided), for (1) #2-4/0 Cu conductor. Type 3R enclosure with bottom conductor entry. Includes Deutsch brand, 12 pin receptacle wired to engine starting signal contacts. UL 1008 Listed transfer Switch Accessory. UL 1008 Listed Withstand Current Rating: 10,000 amps at 240 VAC max. with any molded case circuit breaker.
- Enclosure: Type 3R Listed to UL 50/50E & UL 67. Single Compartment Wall Mount Compartment provides Type 1 protection with exterior open and swing panels closed. Box & Doors - Constructed of 0.095 thick aluminum alloy (5052-H32). Finishes - All interior and exterior surfaces: Textured Polyester Powder Coat, Light Gray (RAL 7035)
- Grounding provisions for Normal, Emergency & Load.
- Overall Dimensions:  
53"H x 32"W x 12.3"D (excluding side mount receptacle)  
53"H x 41.88"W x 12.3"D (including side mount receptacle)
- Weight: Approx. 200 lbs.

B	253463	DL	JPB	03/02/15	SEE ECN - BOTTOM VIEW
A	253353	DL	JPB	02/25/15	SEE ECN - ADDED ACC'S
-	248849	DL	JPB	06/14	NEW ISSUE

PROJECT NAME: TYPE 3R, ALUM

OUTLINE and MOUNTING TYPE 3R, ALUM

D300L SERIES, SINGLE PHASE, 200 AMP

POWER TRANSFER LOAD CENTER

CHECKED BY	DL	DATE	06/14	MANUFACTURING TOLERANCES TO BE IN ACCORDANCE WITH AS20 PROCEDURE MP-1-003. FOR PLASTIC PARTS SEE MP-1-055	ASSEMBLY REF. NO.	COMPUTER GENERATED DRAWING
PROJECT APPROVAL	JPB	DATE	06/14	PROPERTY OF ASCO POWER TECHNOLOGIES. USE PERMITTED FOR OUR WORK ONLY. ALL RIGHTS OF DESIGN OR INVENTION ARE RESERVED.	SCALE	3/4" = 1" SIZE DS
FINAL APPROVAL	JPB	DATE	06/14	ASCO POWER TECHNOLOGIES, L.P. FLORHAM PARK, NEW JERSEY 07932 U.S.A.	DWG. NO.	1015683-004-R
					DRAWING REV.	253463

REV. 1 OF 1

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58'-0" MONOPOLE

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FOR REFERENCE ONLY

SHEET TITLE:

EQUIPMENT  
DETAILS

SHEET NUMBER:

A-8

REVISION:

1

1 PPC WITH CAM-LOK DETAIL

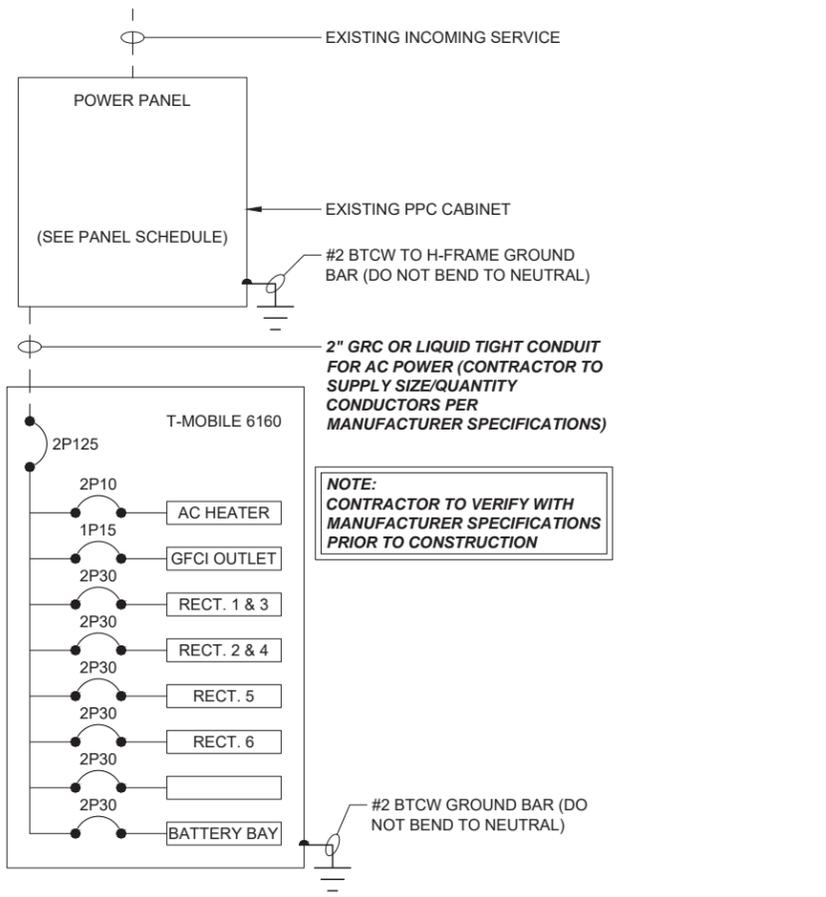
NOT TO  
SCALE

PANEL ID: <u>A</u>	<b>PANEL SCHEDULE</b> SINGLE PHASE	BUS: <u>200A</u>
LOCATION: <u>ON H-FRAME</u>		MAIN: <u>200A BREAKER</u>
FED FROM: <u>--</u>		VOLTAGE: <u>120/240V</u>
		PHASE/WIRE: <u>1Ø/3 WIRE</u>
		AIC: <u>--</u>
	SPECIALS: <u>--</u>	

P#	CIRCUIT DESCRIPTION	AMPS / POLES	Ø	AMPS / POLES	CIRCUIT DESCRIPTION	P#
1	<b>6160 CABINET</b>	<b>125A</b>		A 20A 1P	TECH LIGHT	2
3	--			B 20A 1P	TELCO CABINET OUTLET	4
5	--			A	SPACE	6
7	--			B	SPACE	8
9	SPACE			A	SPACE	10
11	SPACE			B	SPACE	12
13	SPACE			A	SPACE	14
15	SPACE			B	SPACE	16
17	SPACE			A	SPACE	18
19	SPACE			B	SPACE	20
21	SPACE			A	SPACE	22
23	SPACE			B	SPACE	24
25	SPACE			A	SPACE	26
27	SPACE			B	SPACE	28
29	SPACE			A	SPACE	30

- UTILITY POINTS OF SERVICE AND WORK / MATERIALS SHOWN ARE BASED UPON PRELIMINARY INFORMATION PROVIDED BY THE UTILITY COMPANIES AND ARE FOR BID PURPOSES ONLY.
- CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANY FOR FINAL AND EXACT WORK / MATERIALS REQUIREMENTS AND CONSTRUCT TO UTILITY COMPANY ENGINEERING PLANS AND SPECIFICATIONS ONLY. CONTRACTOR SHALL FURNISH AND INSTALL ALL CONDUIT, PULL ROPES, CABLES, PULL BOXES, CONCRETE ENCASEMENT OF CONDUIT (IF REQUIRED), TRANSFORMER PAD, BARRIERS, POLE RISERS, TRENCHING, BACKFILL, PAY ALL UTILITY COMPANY FEES AND INCLUDE ALL REQUIREMENTS IN SCOPE OF WORK.

**3 PANEL SCHEDULE** NOT TO SCALE



**2 ELECTRICAL ONE-LINE DIAGRAM** NOT TO SCALE

**1 NOT USED**

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58'-0" MONOPOLE

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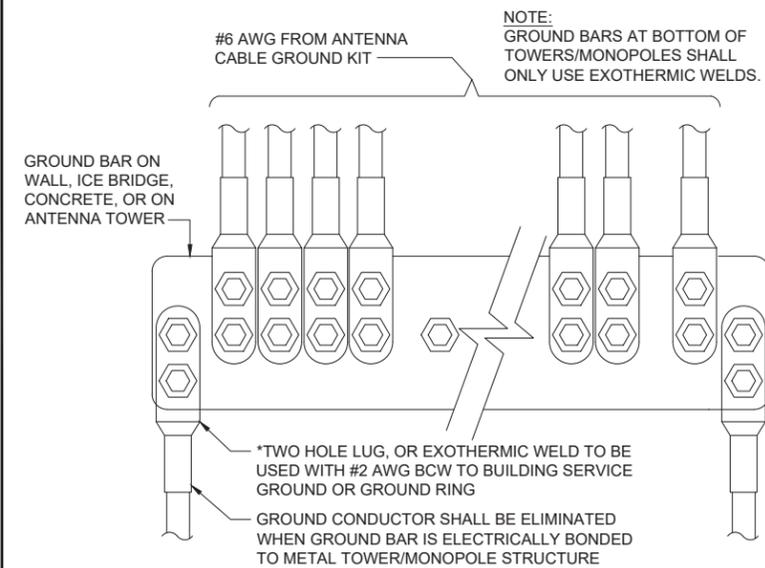
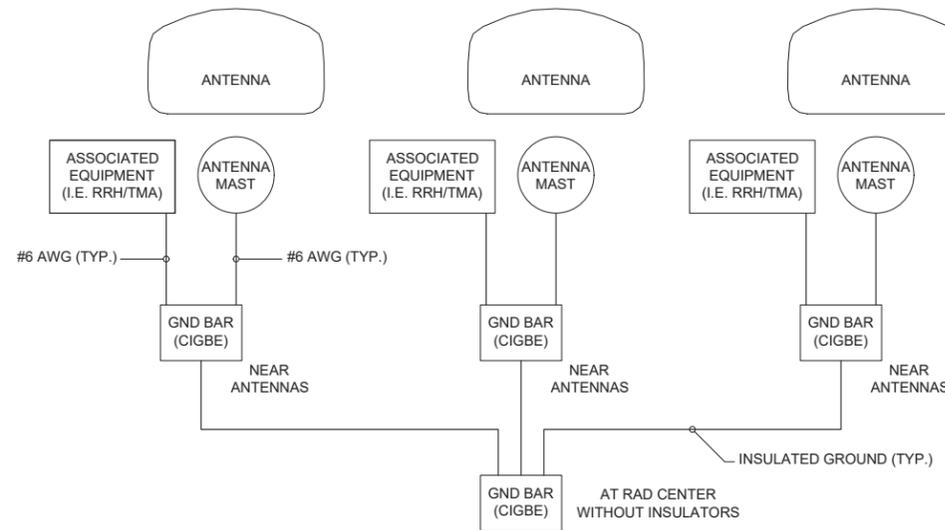


SHEET TITLE:  
**ONE-LINE DIAGRAM & PANEL SCHEDULE**

SHEET NUMBER: **E-1**      REVISION: **1**

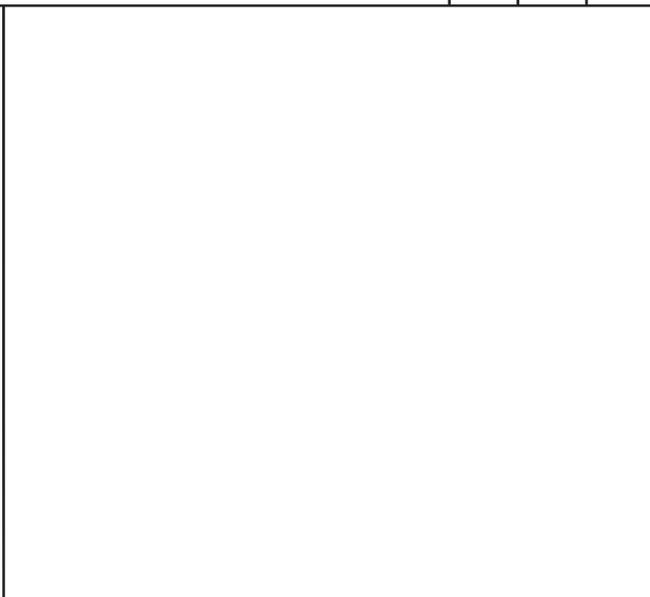
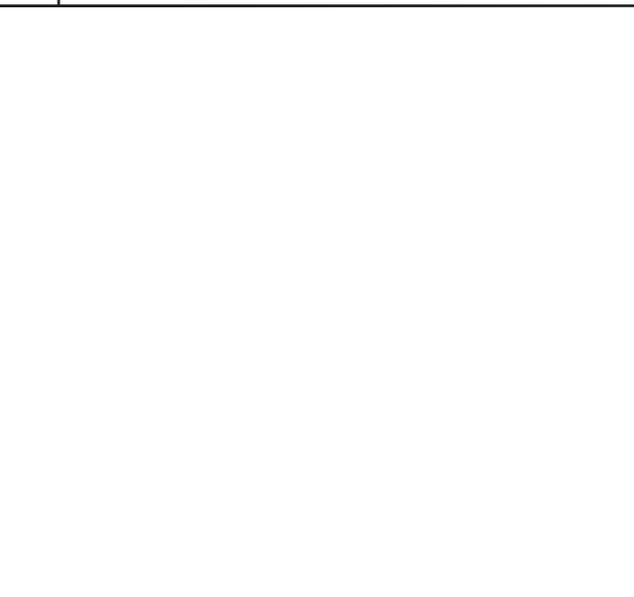
GENERAL GROUNDING NOTES:

- TO ENSURE PROPER BONDING, ALL CONNECTIONS SHALL BE AS FOLLOWS:  
 - #2/0 BARE TINNED SOLID COPPER CONDUCTOR: CADWELDED TO RODS OR GROUND RING  
 - LUGS AND BUS BAR (UNLESS NOTED OTHERWISE): SANDED CLEAN, COATED WITH OXIDE INHIBITOR AND BOLTED FOR MAXIMUM SURFACE CONTACT. ALL LUGS SHALL BE COPPER (NO ALUMINUM SHALL BE PERMITTED). PROVIDE LOCK WASHERS FOR ALL MECHANICAL CONNECTIONS FOR GROUND CONDUCTORS. USE STAINLESS STEEL HARDWARE THROUGHOUT.
- ALL GROUNDING CABLE IN CONCRETE OR THROUGH WALLS SHALL BE IN 3/4" PVC CONDUIT. SEAL AROUND CONDUIT THROUGH WALLS. NO METALLIC CONDUIT SHALL BE USED FOR GROUNDING CONDUCTORS.
- OWNER'S REPRESENTATIVE WILL INSPECT CADWELDS AND CONDUCT MEGGER TEST PRIOR TO BURIAL. MAXIMUM 5 OHMS RESISTANCE IS REQUIRED.
- MAKE ALL GROUND CONNECTIONS AS SHORT AND DIRECT AS POSSIBLE. AVOID SHARP BENDS. ALL BENDS SHALL BE A MINIMUM 8" RADIUS AND NO GREATER THAN 90 DEGREES.
- THE CONTRACTOR SHALL NOTIFY THE CONSTRUCTION MANAGER WHEN THE GROUNDING SYSTEM IS COMPLETE. THE CONSTRUCTION MANAGER SHALL INSPECT THE GROUNDING SYSTEM.
- THE PREFERRED LOCATION FOR COAX GROUNDING IS AT THE BASE OF THE TOWER PRIOR TO THE COAX BEND. BONDING IS SHOWN ON THE ICE BRIDGE DUE TO DIFFICULTY WITH WELDING OR ATTACHING TO TOWER LEGS. CONTRACTOR SHALL ADVISE CONSTRUCTION MANAGER PRIOR TO PLACING CIGBE ON ICE BRIDGE IF MOUNTING TO TOWER LEG IS POSSIBLE.
- BONDING OF THE GROUNDED CONDUCTOR (NEUTRAL) AND THE GROUNDING CONDUCTOR SHALL BE AT THE SERVICE DISCONNECTING MEANS. BONDING JUMPER SHALL BE INSTALLED PER N.E.C. ARTICLE 250-30.



10 ANTENNA SCHEMATIC GROUNDING SYSTEM & NOTES

9 GROUND WIRE INSTALLATION



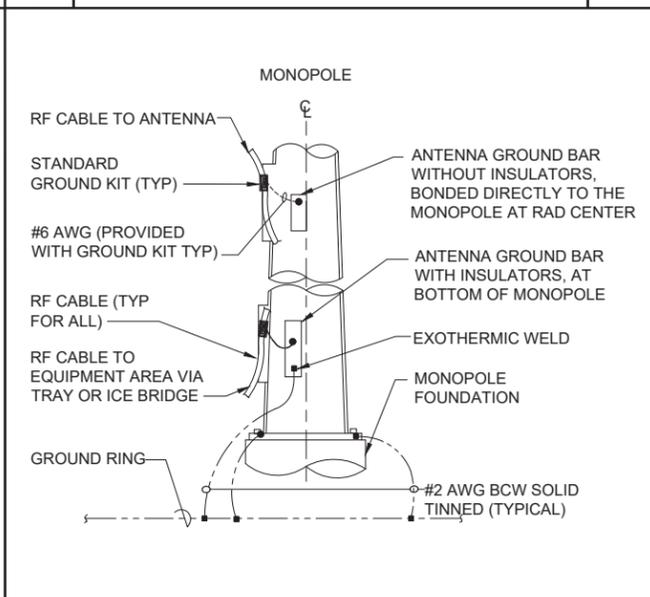
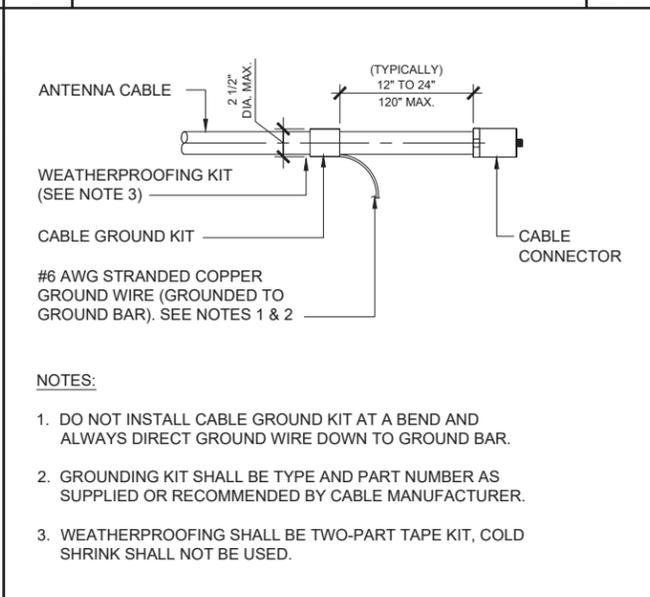
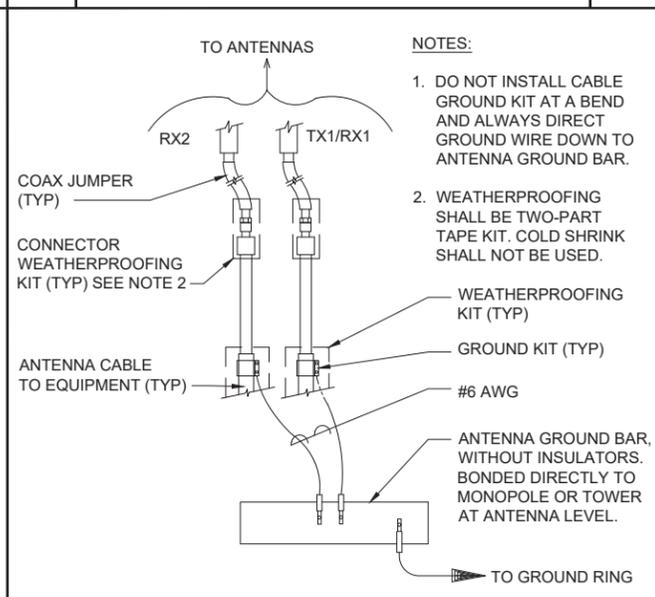
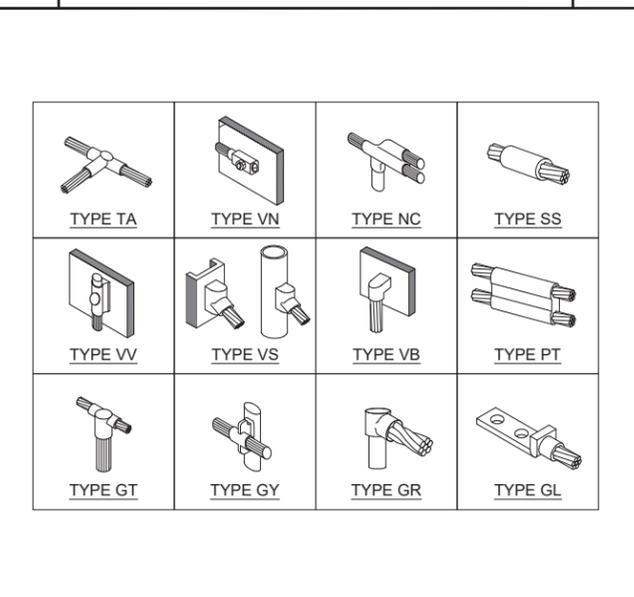
- COPPER GROUND BAR, 1/4"x 4"x 20", NEWTON INSTRUMENT CO. CAT. NO. B-6142 OR APPROVED EQUAL. HOLE CENTERS TO MATCH NEMA DOUBLE LUG CONFIGURATION. (ACTUAL GROUND BAR SIZE WILL VARY BASED ON NUMBER OF GROUND CONNECTIONS)
  - 5/8" LOCK WASHERS, NEWTON INSTRUMENT CO. CAT. NO. 3015-8 OR APPROVED EQUAL
  - WALL MOUNTING BRACKET, NEWTON INSTRUMENT CO. CAT. NO. A-6056 OR APPROVED EQUAL
  - 5/8-11 X 1" HHCS BOLTS, NEWTON INSTRUMENT CO. CAT. NO. 3012-1 OR APPROVED EQUAL
- NOTES:  
 GROUND BAR AT ANTENNA LEVEL TO BE BONDED DIRECTLY TO TOWER STRUCTURE; NO INSULATORS USED. GROUND BAR AT BASE OF TOWER STRUCTURE TO BE ATTACHED WITH INSULATORS. CONNECTION TO TOWER STRUCTURE SHALL BE PER MANUFACTURERS RECOMMENDATIONS.

8 NOT USED

7 NOT USED

6 NOT USED

5 TYPICAL GROUND BAR



4 EXOTHERMIC CONNECTIONS

3 CABLE GROUND CONNECTIONS

2 CABLE GROUND KIT

1 RF CABLE GROUND

**T-Mobile**  
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**INFINIGY**  
 FROM ZERO TO INFINIGY  
 the solutions are endless  
 BELLEVUE, WA 98004

T-MOBILE SITE:  
 SL04306A  
 SL17XC652 RETAIN

CROWN CASTLE SITE:  
 880617  
 ALLEY

52 WEST FAYETTE  
 SALT LAKE, UT 84111  
 SALT LAKE COUNTY

58'-0" MONOPOLE

DRAWINGS ISSUED FOR:

REV.	DATE	DRAWN	DESCRIPTION	QA/QC
A	02/24/21	RCD	PRELIMINARY REVIEW	PD/HL
0	03/04/21	RC	100% CONSTRUCTION	PD
1	03/19/21	CAP	100% CONSTRUCTION	PD

REGISTERED PROFESSIONAL ENGINEER  
 No. 8391625-2202  
 CHRISTOPHER J. WARREN  
 4/19/21  
 STATE OF UTAH

SHEET TITLE:  
**GROUNDING DETAILS**

SHEET NUMBER:  
**G-1**

REVISION:  
**1**