

Northeast Site Solutions Denise Sabo 4 Angela's Way, Burlington CT 06013 203-435-3640 denise@northeastsitesolutions.com

August 25, 2022

Members of the Siting Council Connecticut Siting Council Ten Franklin Square New Britain, CT 06051

RE: Exempt Modification Application

411 West Putnam Avenue, Greenwich, CT 06830

Latitude: 41.021944 Longitude: -73.640555

Site #: CT95623-M CT11090A SBA/T-Mobile

Dear Ms. Bachman:

T-Mobile respectfully requests to cancel its prior Exempt Modification notice (EM-T-MOBILE-057-200812) and now requests to file a new exempt modification for the existing rooftop facility located at 411 West Putnam Avenue, Greenwich, CT 06830. T-Mobile currently maintains nine (9) antennas at the 53-foot level of the existing 56-foot building. The property is owned by West Putnam Owner LLC. T-Mobile now intends to replace nine (9) antennas. The new antennas would be installed at the 53-foot level of the building. This modification includes B2, B5 hardware that is both 4G (LTE), and 5G capable. Antenna Mount modifications will be completed per the attached Chappell Engineering Structural Analysis dated June 2, 2022.

T-Mobile Planned Modifications:

Remove:

- (18) Coax 1-5/8"
- (6) TMAs
- (3) ERICSSON RRUS-11 B12

Remove and Replace:

- (3) RFS Antennas (REMOVE) (3) COMMSCOPE VV-65A-R1 Antennas (REPLACE)
- (3) RFS Antennas (REMOVE) (3) RFS APXVAALL24_43-U-NA20 Antennas (REPLACE)
- (3) ANDREW Antennas (REMOVE) (3) ERICSSON AIR6419 B41 Antennas (REPLACE)

Install New:

- (3) ERICSSON 4460 B25+B66 RRU
- (3) ERICSSON 4480 B71+B85 RRU
- (1) ERICSSON B160 Battery Cabinet
- (1) ERICSSON 6160 Equipment Cabinet
- (6) Hybrid Line 1.9"

Existing to Remain:

- (1) Coax 1/2"
- (1) GPS Antenna



- (1) ERICSSON RBS6102 Equipment Cabinet
- (1) PPC Cabinet
- (1) Transformer

The facility was originally approved by the Town of Greenwich on October 15, 2001. Please see attached.

Please accept this letter as notification pursuant to Regulations of Connecticut State Agencies § 16- SOj-73, for construction that constitutes an exempt modification pursuant to R.C.S.A. § 16-50j-72(b)(2). In accordance with R.C.S.A. § 16-SOj-73, a copy of this letter is being sent to Fred Camillo, First Selectman and Katie DeLuca, Director of Planning & Zoning for the Town of Greenwich, as well as the property owner.

The planned modifications to the facility fall squarely within those activities explicitly provided for in R.C.S.A. § 16-50j-72(b)(2).

- 1. The proposed modifications will not result in an increase in the height of the existing structure.
- 2. The proposed modifications will not require the extension of the site boundary.
- 3. The proposed modifications will not increase noise levels at the facility by six decibels or more, or to levels that exceed state and local criteria.
- 4. The operation of the replacement antennas will not increase radio frequency emissions at the facility to a level at or above the Federal Communications Commission safety standard.
- 5. The proposed modifications will not cause a change or alteration in the physical or environmental characteristics of the site.
- 6. The existing structure and its foundation can support the proposed loading.

For the foregoing reasons, T-Mobile respectfully submits that the proposed modifications to the above referenced telecommunications facility constitute an exempt modification under R.C.S.A. § 16-50j-72(b)(2).

Sincerely,

Denise Sabo

Mobile: 203-435-3640 Fax: 413-521-0558

Office: 4 Angela's Way, Burlington CT 06013 Email: denise@northeastsitesolutions.com



Attachments

Cc: Fred Camillo, First Selectman Town Hall 101 Field Point Road Greenwich, CT 06830

Katie DeLuca, Director of Planning & Zoning Town Hall 101 Field Point Road Greenwich, CT 06830

West Putnam Owner LLC - Property Owner 216 E. 45th Street, Ste 1200 New York, NY 10017

Exhibit A

Original Facility Approval

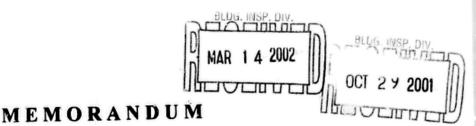


TOWN OF GREENWICH

Planning and Zoning Commission

Diane W. Fox Town Planner/Zoning Enforcement Coordinator

Laurence I. Bradley Joseph R. Potenza Katie Blankley Matthew N. Steinberg Mary K. Young



TO:

Bill Marr, Building Official

Jim Maloney, Zoning Enforcement Officer

Bruce Dixon, Zoning Inspector

FROM:

Diane Fox, Town Planner/Zoning Enforcement Coordinator

Katie Blankley, Planner II

DATE:

October 15, 2001

RE:

Voicestream Wireless Services

Roof top antenna installation at the Wexford Plaza

411 West Putnam Avenue

Zone: GB

The attached plans of Tectonic Engineering Consultants, Inc dated July 26, 2001 as listed below, have been approved by the Planning and Zoning Department for the installation of (12) panel antennas to be erected on three Ballast Mounting Frames (4 antennas per mount) that will be affixed to the existing penthouse on the roof of Wexford Plaza. The accompanying electrical equipment will be moved from its existing location towards the edge of the roof and after the new equipment is installed all previous equipment will be removed as specified on the plans. The new equipment includes two new cabinets and space for a third in the future and is housed on the south side of the building.

Voicestream has certified that the FCC has licensed them to receive within the 1885-1890 MHz band and transmit within the 1965-1970 MHz band of the frequency spectrum and that this will not cause any interference with the Town of Greenwich emergency communication system.

P&Z APPROVES THE FOLLOWING PLANS SUBJECT TO THE FOLLOWING CONDITIONS:

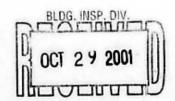
1) Prior to Building Permit issuance approval must be obtained in writing from the Town of Greenwich Police Department.

 An application must be filed with the Planning and Zoning Office if there is any change to the location or materials of any equipment either on the roof or inside the building.

 The applicant must remove all primary and secondary equipment upon termination of the approvals set forth in this memorandum.

APPROVED P&Z PLANS PREPARED BY TECTONIC ENGINEERING CONSULTANTS ARE AS FOLLOWS:

Roof Plan, dated 7/26/01, Sheet A-2 Equipment Location Plan & Detail, dated 7/26/01, Sheet A-3 Elevations, dated 7/26/01, Sheet A-4



SUPPORT DOCUMENTATION:

July 17, 2001 memorandum from Zoning Enforcement to Planning and Zoning

Cc: Haden Gerrish

DIVISION OF BUILDING INSPECTION



TOWN OF GREENWICH CONNECTICUT

ZONING ENFORCEMENT

Project No.

SES/Adm. #01-3

Final

Preliminary

Reviewed for Planning and Zoning Commission.

TITLE OF PLAN REVIEWED:

Voicestream Wireless at Greenwich Plaza

LOCATION:

| Greenwich Plaza | ||

west Pomany Ave

Wextord

PLAN DATE:

ZONE:

The subject site plan/subdivision meets the requirements of the Building Zone Regulations excluding Section 6-15 and 6-17, except for the following:

Date: July 17, 2001 Reviewed by:

4. Neighboring Sites (Existing and Proposed):

I have been in charge for the design for Voicestream since the beginning of their Network and have personally been involved in the selection of various locations in Greenwich besides the three proposed sites. Other Voicestream locations in Greenwich are as follows:

Operational Sites

- Roof top at 411 West Putnam Ave (will be proposing to upgrade our current installation)
- SNET Mobility monopole at 363 Riversville Pd (Boys Scouts of America)
- CT State Police tower at 150 Butternut Hollow Rd
- Bell Atlantic / Verizon monopole at 1081 North Street

Sites under construction / Zoning process

- CL&P pole at Station drive (under construction)
- CL&P pole at Old Greenwich Station
- Roof top at 1111 East Putnam Ave
- Proposed flagpole at 239 Glenville Rd

Sites in leasing / Open search areas

- 247 Stanwich Rd (St Agnes Church)
- 35 Parsonage Rd (Greenwich Country Club)
- Open search area off of Byfield Lane and Route 15
- Round Hill Rd and Route 15
- Open search area on Lake Ave and Rockwood Lane

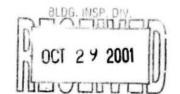


Exhibit B

Property Card

212

03-1664/S

WEST PUTNAM OWNER LLC

WEST PUTNAM AVENUE 0411

ADMINISTRATIVE INFORMATION PARCEL NUMBER 03-1664/S	OWNERSHIP WEST PUTNAM OWNE 216 E 45TH ST ST		Tax ID 214.		OF OWNERSHIP	Printed 12/18	8/2019 Card No. 1	°f 1
03-1004/5 Parent Parcel Number	NEW YORK, NY 100	17		Date				
arent raicel Number	LOT NO 32 & 33 W	EST PUTNAM AVE	N-43	06/24/201				\$51500000
roperty Address WEST PUTNAM AVENUE 0411				04/22/200	5 FLORIDA ŠE	7086, 288 HERWOOD FOREST 4902, 307	LTD	\$32257000
eighborhood 2200 WEST PUTNAM				03/15/200	2 SOFI IV 41	1 PUTNAM LLC 3810, 325		\$23494750
roperty Class				09/08/199		M ASSOC 2966, 220		\$17250000
212 General Office CAXING DISTRICT INFORMATION	CON	MME	RCIAL	07/16/199	1 WEST PUTNA			\$233500
Jurisdiction 57 Greenwich, CT	• • • •			VALUATION F	ECORD			
Corporation 057	Assessment Year	10/01/201	.5 10/01/2015	10/01/2016	10/01/2016	10/01/2017	10/01/2018	10/01/2019
sistrict 03 Section & Plat 103	Reason for Chang	e 2015 Preli	m 2015 Final	2016 List	2016 BAA	2017 List	2018 List	2019 List
	VALUATION	L 334700		3347000	3347000	3347000	3347000	3347000
outing Number 9073N0043	Market	В 4827480		48274800	48274800	48274800	48990300	45488800
		T 5162180		51621800	51621800	51621800	52337300	48835800
Site Description	VALUATION	L 234290		2342900	2342900	2342900	2342900	2342900
opography:	70% Assessed	B 3379236 T 3613526		33792360 36135260	33792360 36135260	33792360 36135260	34293210 36636110	31842160 34185060
			LA	ND DATA AND	CALCULATIONS	3		
Public Utilities: Sewer, Electric Street or Road:	Rating Soil ID -or-	Measured T Acreage -or-	LA 'able Prod. Factor -or- Depth Factor	ND DATA AND	CALCULATIONS	;		

Legal Acres: 0.9480

APS: 03-1654/S
BA16: Sustain
BP15: 15-0978; Tenant: Contrian Capital, \$188,000 elec & int alt
BP18: BP16-3911, Tenant Fitout \$719,000
CTST: 2016 GL, 2017 GL & 2018 GL
DBA: Wexford Plaza
GEN: Supported by parking deck and garage on 03-1654/s.
P: 110 spaces
SALE: 3/15/02 vol 3810 pg 325 sale includes 03-1654/s. Recorded sp of
\$23,494,750 reflects reduction for specific liability. Effective
\$yp = \$23,607,000. Verified arm's length. 4/05 sale w/ 03-1654/s
cmfrmd arm's length w/ tot sp = \$32,257,000. Indicated sp is
allocated value (88%).

Supplemental Cards

TRUE TAX VALUE

3347000

FilingDate Est. Cost Field Visit Est. SqFt Permit Number Type

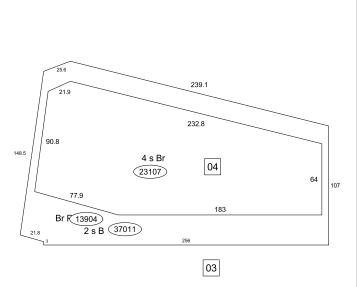
Supplemental Cards TOTAL LAND VALUE

3347000

03-1664/S

Property Class: 212 WEST PUTNAM AVENUE 0411

PHYSICAL CHARACTERISTICS ROOFING					
Built-up	0				
WALLS					
Frame Brick Metal Guard	B Yes	1 Yes	2 Yes	U Yes	
FRAMING					
R Conc F Prf		1 0 23107	2 0 23107	U 0 46214	
HEATING	AND AI	R CONDI	TIONING		
Heat Sprink	B 74022 74022		2 4621 4621	U 9242 9242	



IMPROVEMENT DATA

Item Description	Units	Cost	Total	Pct
м & 5	S Cost Da	tabase Dat	te: 01/2015	i
Heating & Cooling Sprinklers Basic Structure Cost Unfinished Basement Heating & Cooling Sprinklers Building Cost New Physical	92428 18484 18484 92428 74022 74022 74022 92428 0	34.04 7.60 282.02 59.44 20.17 4.67 349.52 0.00 341.10	5327552 629196 140480 26066297 4399868 1493285 345534 32304984	2.41
Total Exterior Features V Depreciated Ext Features Total Before Adjustments Neighborhood Adjustment TOTAL VALUE	Value		31527300 15763700 47291000	50.00

(LCM: 150.00)

SPECIAL FEATURES	SUMMARY OF IMPROVEMENTS	
Description Value	Stry Const Year Eff Base Feat- Adj Size or Computed PhysObsolMarket % ID Use Hgt Type Grade Const Year Cond Rate ures Rate Area Value Depr Depr Adj Comp Va	lue
C : Remod 2009	C GENOFF 0.00 Exe 1973 2005 VG 0.00 N 0.00 23107 0 0 0 150 100 4 03 PENTMECH 0.00 1 Avg 1971 1995 GD 70.00 N 105.00 2940 308700 0 0 100 100 04 ELEVCOM 6.00 2E Avg+ 1973 2000 VG 169000 N 304200 2e 0 608400 0 0 100 100 05 BRP 0.00 Exe 2009 2009 AV 0.00 N 0.00 0 806360 3 0 100 100	1729100 308700 608400 782200
	Data Collector/Date Appraiser/Date Neighborhood Supplemental Cards TD 06/13/2017 TOG 10/01/2015 Neigh 2200 AV	4899030





result from the use of any liability that may expressly disclaims this map. Basemap: Town of Greenwich produced from the GIS. The Town This map was

10/1/12. Copyright 2005 Town of 4/2/08. Parcels:

Exhibit C

Construction Drawings

GREENWICH/PUTNAM AVE 2

411 WEST PUTNAM AVENUE GREENWICH, CT 06830 FAIRFIELD COUNTY

SITE NO.: CT11090A

SITE TYPE: ROOFTOP

RF DESIGN GUIDELINE: 67E5A998E HYBRID

APPROVALS ZONING/SITE ACQ.: DATE: **PROJECT MANAGER:** DATE: **CONSTRUCTION:** DATE: DATE: **OPERATIONS: RF ENGINEERING: TOWER OWNER:** DATE: DATE:

-MOBILE TECHNICIAN SITE SAFETY NOTES

SPECIAL RESTRICTIONS **LOCATION** SECTOR A: ACCESS BY CERTIFIED CLIMBER SECTOR B: ACCESS BY CERTIFIED CLIMBER SECTOR C: ACCESS BY CERTIFIED CLIMBER SECTOR D: ACCESS BY CERTIFIED CLIMBER GPS/LMU: UNRESTRICTED RADIO CABINETS: UNRESTRICTED

PPC DISCONNECT: UNRESTRICTED MAIN CIRCUIT D/C: UNRESTRICTED NIU/T DEMARC: UNRESTRICTED OTHER/SPECIAL: NONE

GENERAL NOTES

- . THE CONTRACTOR SHALL GIVE ALL NOTICES AND COMPLY WITH ALI LAWS, ORDINANCES, RULES, REGULATIONS AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY, MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS, AND LOCAL AND STATE JURISDICTIONAL CODES BEARING ON THE PERFORMANCE OF THE WORK. THE WORK PERFORMED ON THE PROJECT AND THE MATERIALS INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS, AND ORDINANCES.
- THE ARCHITECT/ENGINEER HAVE MADE EVERY EFFORT TO SET FORTH IN THE CONSTRUCTION AND CONTRACT DOCUMENTS THE COMPLETE SCOPE OF WORK. THE CONTRACTOR BIDDING THE JOB IS NEVERTHELESS CAUTIONED THAT MINOR OMISSIONS OR ERRORS IN THE DRAWINGS AND OR SPECIFICATIONS SHALL NOT EXCUSE SAID CONTRACTOR FROM COMPLETING THE PROJECT AND IMPROVEMENTS IN ACCORDANCE WITH THE INTENT OF THESE DOCUMENTS.
- THE CONTRACTOR OR BIDDER SHALL BEAR THE RESPONSIBILITY OF NOTIFYING (IN WRITING) THE OMNIPOINT REPRESENTATIVE OF ANY CONFLICTS, ERRORS, OR OMISSIONS PRIOR TO THE SUBMISSION OF CONTRACTOR'S PROPOSAL OR PERFORMANCE OF WORK, IN THE EVENT OF DISCREPANCIES THE CONTRACTOR SHALL PRICE THE MORE COSTLY OR EXTENSIVE WORK, UNLESS DIRECTED IN WRITING OTHERWISE.
- THE SCOPE OF WORK SHALL INCLUDE FURNISHING ALL MATERIALS, EQUIPMENT, LABOR AND ALL OTHER MATERIALS AND LABOR DEEMED NECESSARY TO COMPLETE THE WORK/PROJECT AS DESCRIBED
- THE CONTRACTOR SHALL VISIT THE JOB SITE PRIOR TO THE SUBMISSION OF BIDS OR PERFORMING WORK TO FAMILIARIZE HIMSELF WITH THE FIELD CONDITIONS AND TO VERIFY THAT THE PROJECT CAN BE CONSTRUCTED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
- THE CONTRACTOR SHALL OBTAIN AUTHORIZATION TO PROCEED WITH CONSTRUCTION PRIOR TO STARTING WORK ON ANY ITEM NOT CLEARLY DEFINED BY THE CONSTRUCTION DRAWINGS/CONTRACT DOCUMENTS.
- THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS ACCORDING TO THE MANUFACTURER'S/VENDOR'S SPECIFICATIONS UNLESS NOTED OTHERWISE OR WHERE LOCAL CODES OR ORDINANCES TAKE PRECEDENCE.
- THE CONTRACTOR SHALL PROVIDE A FULL SET OF CONSTRUCTION DOCUMENTS AT THE SITE UPDATED WITH THE LATEST REVISIONS AND ADDENDUMS OR CLARIFICATIONS AVAILABLE FOR THE USE BY ALL PERSONNEL INVOLVED WITH THE PROJECT.
- THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE PROJECT DESCRIBED HEREIN. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES AND FOR COORDINATING ALL PORTIONS OF THE WORK UNDER THE CONTRACT.
- THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL NECESSARY CONSTRUCTION CONTROL SURVEYS, ESTABLISHING AND MAINTAINING ALL LINES AND GRADES REQUIRED TO CONSTRUCT ALL IMPROVEMENTS AS SHOWN HEREIN.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS AND INSPECTIONS WHICH MAY BE REQUIRED FOR THE WORK BY THE ARCHITECT/ENGINEER, THE STATE, COUNTY OR LOCAL GOVERNMENT AUTHORITY.
- THE CONTRACTOR SHALL MAKE NECESSARY PROVISIONS TO PROTECT EXISTING IMPROVEMENTS, EASEMENTS, PAVING, CURBING, ETC. DURING CONSTRUCTION. UPON COMPLETION OF WORK, THE CONTRACTOR

- CONSTRUCTION ON OR ABOUT THE PROPERTY.
- 13. THE CONTRACTOR SHALL KEEP THE GENERAL WORK AREA CLEAN AND HAZARD FREE DURING CONSTRUCTION AND DISPOSE OF ALL DIRT, DEBRIS, RUBBISH AND REMOVE EQUIPMENT NOT SPECIFIED AS REMAINING ON THE PROPERTY. PREMISES SHALL BE LEFT IN CLEAN CONDITION AND FREE FROM PAINT SPOTS, DUST, OR SMUDGES OF
- 14. THE CONTRACTOR SHALL COMPLY WITH ALL OSHA REQUIREMENTS AS THEY APPLY TO THIS PROJECT.
- 15. THE CONTRACTOR SHALL NOTIFY THE PROJECT OWNER'S REPRESENTATIVE WHERE A CONFLICT OCCURS ON ANY OF THE CONTRACT DOCUMENTS. THE CONTRACTOR IS NOT TO ORDER MATERIAL OR CONSTRUCT ANY PORTION OF THE WORK THAT IS IN CONFLICT UNTIL CONFLICT IS RESOLVED BY THE LESSEE/LICENSEE
- 16. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, ELEVATIONS, PROPERTY LINES, ETC. ON THE JOB.
- 17. ALL UNDERGROUND UTILITY INFORMATION WAS DETERMINED FROM SURFACE INVESTIGATIONS AND EXISTING PLANS OF RECORD. THE CONTRACTOR SHALL LOCATE ALL UNDERGROUND UTILITIES IN THE FIELD PRIOR TO ANY SITE WORK.

AT LEAST 72 HOURS PRIOR TO DIGGING, THE CONTRACTOR IS REQUIRED TO CALL DIG SAFE AT 811



VICINITY MAP SCALE: 1" = 1000'-0"

DIRECTIONS

MERGE ONTO I-495 NORTH TOWER MANSFIELD/MARLBORO. TAKE EXIT 33B TO MERGE ONTO I-95 SOUTH TOWARD PROVIDENCE RI. ENTER RHODE ISLAND. KEEP LEFT TO CONTINUE TOWARD I-95 SOUTH. CONTINUE ONTO I-95 SOUTH. KEEP RIGHT AT FORK TO STAY ON I-95 SOUTH. ENTER CONNECTICUT. KEEP LEFT TO STAY ON I-95 SOUTH. KEEP RIGHT TO STAY ON I-95 SOUTH. KEEP LEFT TO STAY ON I-95 SOUTH (7x). TAKE EXIT 3 FOR ARCH STREET TOWARD GREENWICH. USE MIDDLE LANE TO TURN RIGHT ONTO ARCH STREET. TURN LEFT ONTO RAILROAD AVENUE. CONTINUE ONTO OLD FIELD POINT ROAD. TURN RIGHT ONTO LIVINGSTON PLACE. LIVINGSTON PLACE TURNS LEFT & BECOMES US-1 SOUTH. SITE IS LOCATED ON THE RIGHT HAND SIDE.

TODO IFOT CLIMANADY

SHE	ET INDEX		PROJECT SUMM	ARY
SHEET NO.	DESCRIPTION	REV. NO.	SITE NUMBER:	CT11090A
T-1	TITLE SHEET	3	SITE NAME:	GREENWICH/PUTNAM AVE 2
			SBA SITE NUMBER:	CT95623-M
GN-1	GENERAL NOTES	3	SBA SITE NAME:	GREENWICH (PUTNAM)
			SITE ADDRESS:	411 WEST PUTNAM AVENUE GREENWICH, CT 06830
A-1	ROOF PLAN	3	PROPERTY OWNER:	411 PUTNAM AVE, LLC
A-2	EQUIPMENT PLANS	3	THOI ENTI OWNER.	411 WEST PUTNAM AVENUE
A-3	BUILDING ELEVATION	3		GREENWICH, CT 06830
A-4	ANTENNA PLANS	3	TOWED OWNED.	MON ACQUICITION 2017 II C
A-5	SITE DETAILS	3	TOWER OWNER:	MCM ACQUISITION 2017, LLC 8501 CONGRESS AVENUE
A-6	ANTENNA & FEEDLINE CHARTS	3		BOCA RATON, FL 33487 PHONE: 561-226-9523
	DALLACE MOUNT DENIESDONIO DETAILO	_	COUNTY:	FAIRFIELD
S-1	BALLAST MOUNT REINFORCING DETAILS	3	ZONING DISTRICT:	GB (GENERAL BUSINESS)
E-1	ELECTRIC & GROUNDING DETAILS	3	STRUCTURE TYPE:	ROOFTOP
	ELLCTRIC & GROUNDING DETAILS	3	STRUCTURE HEIGHT:	56'±
			APPLICANT:	T-MOBILE NORTHEAST LLC 15 COMMERCE WAY, SUITE B NORTON, MA 02766
			ARCHITECT:	CHAPPELL ENGINEERING ASSOCIATES, LLC. 201 BOSTON POST ROAD WEST, SUITE 101 MARLBOROUGH, MA 01752
			STRUCTURAL ENGINEER:	CHAPPELL ENGINEERING ASSOCIATES, LLC. 201 BOSTON POST ROAD WEST, SUITE 101 MARLBOROUGH, MA 01752
			SITE CONTROL POINT:	LATITUDE: 41.021397 N41°01'17.03"

SCOPE OF WORK

9 ANTENNAS 6 TMAS

18 COAX CABLES

SITE NOTES

1 100A-2P BREAKER

INSTALL:

• 9 ANTENNAS

• 3 HYBRID CABLES

• 1 6160 CABINET 1 B160 CABINET

• 2 125A-2P BREAKERS • 1 25A-1P BREAKER

• 1 SLACKBOX

THIS IS AN UNMANNED AND RESTRICTED ACCESS TELECOMMUNICATION FACILITY, AND IS

FOR THE PURPOSE OF PROVIDING PUBLIC CELLULAR SERVICE.

POTABLE WATER OR SANITARY SERVICE IS NOT REQUIRED.

BUILDING CODE: 2018 CONNECTICUT STATE BUILDING CODE

ELECTRICAL CODE: 2017 NATIONAL ELECTRICAL CODE

DISCREPANCIES AT THE CONTRACTOR'S EXPENSE.

NO OUTDOOR STORAGE OR ANY SOLID WASTE RECEPTACLES REQUIRED.

ADA COMPLIANCE NOT REQUIRED.

STRUCTURES AND ANTENNAS.

NOT FOR HUMAN HABITATION. IT WILL BE USED FOR THE TRANSMISSION OF RADIO SIGNAL

CONTRACTOR SHALL VERIFY ALL PLANS, EXISTING DIMENSIONS, AND CONDITIONS ON JOB

SITE. CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ARCHITECT/ENGINEER IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK. FAILURE TO NOTIFY THE

ARCHITECT/ENGINEER PLACE THE RESPONSIBILITY ON THE CONTRACTOR TO CORRECT THE

STRUCTURAL CODE: TIA/EIA-222-G STRUCTURAL STANDARDS FOR ANTENNA SUPPORTING

NEW CONSTRUCTION WILL CONFORM TO ALL APPLICABLE CODES AND ORDINANCES.

• 6 RADIOS

DO NOT SCALE DRAWINGS

CONTRACTOR SHALL VERIFY ALL PLANS AND EXISTING DIMENSIONS AND CONDITIONS ON THE JOB SITE AND SHALL IMMEDIATELY NOTIFY THE PROJECT OWNER'S REPRESENTATIVE IN WRITING OF DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR SAME

BASED ON INFORMATION PROVIDED BY T-MOBILE REGULATORY COMPLIANCE PROFESSIONALS AND LEGAL COUNSEL, THIS TELECOMMUNICATIONS EQUIPMENT DEPLOYMENT IS CONSIDERED AN <u>ELIGIBLE FACILITY</u> UNDER THE MIDDLE CLASS TAX RELIEF AND JOB CREATION ACT OF 2012, 47 USC 1455(A), SECTION 6409(A), AND IS SUBJECT TO AN ELIGIBLE FACILITY REQUEST, EXPEDITED REVIEW, AND LIMITED/PARTIAL ZONING PRE-EMPTION FOR LOCAL DISCRETIONARY PERMITS (VARIANCE, SPECIAL PERMIT, SITE PLAN REVIEW, OR ADMINISTRATIVE REVIEW).

LONGITUDE: -73.641289° W73°38'28.64"

T-MOBILE NORTHEAST LLC

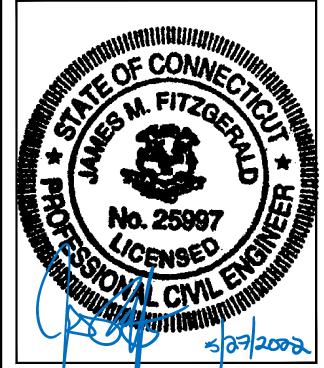
15 COMMERCE WAY, SUITE B NORTON, MA 02766 (508) 286-2700



SBA COMMUNICATIONS CORP.
134 FLANDERS ROAD, SUITE 125 WESTBOROUGH, MA 01581



R.K. EXECUTIVE CENTRE 201 BOSTON POST ROAD WEST, SUITE 101 MARLBOROUGH, MA 01752 (508) 481-7400 www.chappellengineering.com



CHECKED BY:

APPROVED BY:

	S	UBMITTALS	
REV.	DATE	DESCRIPTION	BY
3	05/27/22	CONSTRUCTION REVISED	CMC
2	05/19/22	CONSTRUCTION REVISED	CMC
1	07/28/20	ISSUED FOR CONSTRUCTION	CMC
0	06/17/20	ISSUED FOR REVIEW	CMC

SITE NUMBER: CT11090A

SITE ADDRESS: 411 WEST PUTNAM AVENUE GREENWICH, CT 06830

SHEET TITLE

TITLE SHEET

SHEET NUMBER

GENERAL NOTES:

- 1. FOR THE PURPOSE OF CONSTRUCTION DRAWINGS, THE FOLLOWING DEFINITIONS SHALL APPLY: CONTRACTOR T—MOBILE SUBCONTRACTOR GENERAL CONTRACTOR (CONSTRUCTION) OWNER T—MOBILE
 - OEM ORIGINAL EQUIPMENT MANUFACTURER
- 2. PRIOR TO THE SUBMISSION OF BIDS, THE BIDDING SUBCONTRACTOR SHALL VISIT THE CELL SITE TO FAMILIARIZE WITH THE EXISTING CONDITIONS AND TO CONFIRM THAT THE WORK CAN BE ACCOMPLISHED AS SHOWN ON THE CONSTRUCTION DRAWINGS. ANY DISCREPANCY FOUND SHALL BE BROUGHT TO THE ATTENTION OF CONTRACTOR.
- 3. ALL MATERIALS FURNISHED AND INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS, AND ORDINANCES. SUBCONTRACTOR SHALL ISSUE ALL APPROPRIATE NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS, AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY REGARDING THE PERFORMANCE OF THE WORK.
- 4. ALL WORK CARRIED OUT SHALL COMPLY WITH ALL APPLICABLE MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS AND LOCAL, STATE AND FEDERAL JURISDICTIONAL CODES, ORDINANCES AND APPLICABLE REGULATIONS.
- 5. DRAWINGS PROVIDED HERE ARE NOT TO BE SCALED AND ARE INTENDED TO SHOW OUTLINE ONLY.
- 6. UNLESS NOTED OTHERWISE, THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT, APPURTENANCES, AND LABOR NECESSARY TO COMPLETE ALL INSTALLATIONS AS INDICATED ON THE DRAWINGS.
- 7. THE SUBCONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY STATED OTHERWISE.
- 8. IF THE SPECIFIED EQUIPMENT CANNOT BE INSTALLED AS SHOWN ON THESE DRAWINGS, THE SUBCONTRACTOR SHALL PROPOSE AN ALTERNATIVE INSTALLATION FOR APPROVAL BY THE CONTRACTOR.
- 9. SUBCONTRACTOR SHALL DETERMINE ACTUAL ROUTING OF CONDUIT, POWER, T1 CABLES AND GROUNDING CABLES AS SHOWN ON THE POWER, GROUNDING AND TELCO PLAN DRAWING. SUBCONTRACTOR SHALL UTILIZE EXISTING TRAYS AND/OR SHALL ADD NEW TRAYS AS NECESSARY. SUBCONTRACTOR SHALL CONFIRM THE ACTUAL ROUTING WITH THE CONTRACTOR AND/OR LANDLORD PRIOR TO CONSTRUCTION.
- 10. THE SUBCONTRACTOR SHALL PROTECT EXISTING IMPROVEMENTS, PAVEMENTS, CURBS, LANDSCAPING AND STRUCTURES. ANY DAMAGED PART SHALL BE REPAIRED AT SUBCONTRACTOR'S EXPENSE TO THE SATISFACTION OF THE OWNER.
- 11. SUBCONTRACTOR SHALL LEGALLY AND PROPERLY DISPOSE OF ALL SCRAP MATERIALS SUCH AS COAXIAL CABLES AND OTHER ITEMS REMOVED FROM THE EXISTING FACILITY.
- 12. SUBCONTRACTOR SHALL LEAVE PREMISES IN CLEAN CONDITION AND RETURN DISTURBED AREAS TO ORIGINAL CONDITIONS.
- 13. THE SUBCONTRACTOR SHALL SUPERVISE AND DIRECT THE PROJECT DESCRIBED HEREIN. THE SUBCONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES FOR COORDINATING ALL PORTIONS OF THE WORK UNDER THE CONTRACT.
- 14. SUBCONTRACTOR SHALL NOTIFY CHAPPELL ENGINEERING ASSOCIATES, LLC 48 HOURS IN ADVANCE OF POURING CONCRETE OR BACKFILLING TRENCHES, SEALING ROOF AND WALL PENETRATIONS AND POST DOWNS, FINISHING NEW WALLS OR FINAL ELECTRICAL CONNECTIONS FOR ENGINEERING REVIEW.
- 15. CONSTRUCTION SHALL COMPLY WITH ALL T-MOBILE STANDARDS AND SPECIFICATIONS.
- 16. SUBCONTRACTOR SHALL VERIFY ALL EXISTING DIMENSIONS AND CONDITIONS PRIOR TO COMMENCING ANY WORK. ALL DIMENSIONS OF EXISTING CONSTRUCTION SHOWN ON THE DRAWINGS MUST BE VERIFIED. SUBCONTRACTOR SHALL NOTIFY THE CONTRACTOR OF ANY DISCREPANCIES PRIOR TO ORDERING MATERIAL OR PROCEEDING WITH CONSTRUCTION.
- 17. THE EXISTING CELL SITES ARE IN FULL COMMERCIAL OPERATION. ANY CONSTRUCTION WORK BY SUBCONTRACTOR SHALL NOT DISRUPT THE EXISTING NORMAL OPERATION. ANY WORK ON EXISTING EQUIPMENT MUST BE COORDINATED WITH CONTRACTOR. ALSO, WORK SHOULD BE SCHEDULED FOR AN APPROPRIATE MAINTENANCE WINDOW USUALLY IN LOW TRAFFIC PERIODS AFTER MIDNIGHT.
- 18. IF THE EXISTING CELL SITE IS ACTIVE, ALL SAFETY PRECAUTIONS MUST BE TAKEN WHEN WORKING AROUND HIGH LEVELS OF ELECTROMAGNETIC RADIATION. EQUIPMENT SHOULD BE SHUTDOWN PRIOR TO PERFORMING ANY WORK THAT COULD EXPOSE THE WORKERS TO DANGER. PERSONAL RF EXPOSURE MONITORS ARE TO BE WORN TO ALERT OF ANY DANGEROUS EXPOSURE LEVELS.

SITE WORK GENERAL NOTES:

- 1. THE SUBCONTRACTOR SHALL CONTACT UTILITY LOCATING SERVICES PRIOR TO THE START OF CONSTRUCTION.
- 2. ALL EXISTING ACTIVE SEWER, WATER, GAS, ELECTRIC, AND OTHER UTILITIES WHERE ENCOUNTERED IN THE WORK, SHALL BE PROTECTED AT ALL TIMES, AND WHERE REQUIRED FOR THE PROPER EXECUTION OF THE WORK, SHALL BE RELOCATED AS DIRECTED BY ENGINEERS. EXTREME CAUTION SHOULD BE USED BY THE SUBCONTRACTOR WHEN EXCAVATING OR DRILLING PIERS AROUND OR NEAR UTILITIES. SUBCONTRACTOR SHALL PROVIDE SAFETY TRAINING FOR THE WORKING CREW. THIS WILL INCLUDE BUT NOT BE LIMITED TO A) FALL PROTECTION B) CONFINED SPACE C) ELECTRICAL SAFETY D) TRENCHING AND EXCAVATION.
- 3. ALL SITE WORK SHALL BE AS INDICATED ON THE DRAWINGS AND PROJECT SPECIFICATIONS.
- 4. IF NECESSARY, RUBBISH, STUMPS, DEBRIS, STICKS, STONES AND OTHER REFUSE SHALL BE REMOVED FROM THE SITE AND DISPOSED OF LEGALLY.
- 5. THE SITE SHALL BE GRADED TO CAUSE SURFACE WATER TO FLOW AWAY FROM THE BTS EQUIPMENT AND TOWER AREAS.
- 6. NO FILL OR EMBANKMENT MATERIAL SHALL BE PLACED ON FROZEN GROUND. FROZEN MATERIALS, SNOW OR ICE SHALL NOT BE PLACED IN ANY FILL OR EMBANKMENT.
- 7. THE SUB GRADE SHALL BE COMPACTED AND BROUGHT TO A SMOOTH UNIFORM GRADE PRIOR TO FINISHED SURFACE APPLICATION.
- 8. ALL EXISTING INACTIVE SEWER, WATER, GAS, ELECTRIC AND OTHER UTILITIES, WHICH INTERFERE WITH THE EXECUTION OF THE WORK, SHALL BE REMOVED AND/OR CAPPED, PLUGGED OR OTHERWISE DISCONTINUED AT POINTS WHICH WILL NOT INTERFERE WITH THE EXECUTION OF THE WORK, SUBJECT TO THE APPROVAL OF ENGINEERING, OWNER AND/OR LOCAL UTILITIES.
- 9. THE AREAS OF THE OWNERS PROPERTY DISTURBED BY THE WORK AND NOT COVERED BY THE TOWER, EQUIPMENT OR DRIVEWAY, SHALL BE GRADED TO A UNIFORM SLOPE AND STABILIZED TO PREVENT EROSION AS SPECIFIED IN THE PROJECT SPECIFICATIONS.
- 10. SUBCONTRACTOR SHALL MINIMIZE DISTURBANCE TO EXISTING SITE DURING CONSTRUCTION. EROSION CONTROL MEASURES, IF REQUIRED DURING CONSTRUCTION, SHALL BE IN CONFORMANCE WITH THE LOCAL GUIDELINES FOR EROSION AND SEDIMENT CONTROL.
- 11. THE SUBCONTRACTOR SHALL PROVIDE SITE SIGNAGE IN ACCORDANCE WITH THE T-MOBILE SPECIFICATION FOR SITE SIGNAGE.

CONCRETE AND REINFORCING STEEL NOTES:

1. ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH THE ACI 301, ACI 318, ACI 336, ASTM A184, ASTM A185 AND THE DESIGN AND CONSTRUCTION SPECIFICATION FOR CAST—IN—PLACE CONCRETE.

2. ALL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI AT 28 DAYS, UNLESS NOTED OTHERWISE. A HIGHER STRENGTH (400PSI) MAY BE USED. ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH THE ACI 381 CODE

3. REINFORCING STEEL SHALL CONFORM TO ASTM A 615, GRADE 60, DEFORMED UNLESS NOTED OTHERWISE. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A 185 WELDED STEEL WIRE FABRIC UNLESS NOTED OTHERWISE. SPLICES SHALL BE CLASS "B" AND ALL HOOKS SHALL BE STANDARD, UNO.

4. THE FOLLOWING MINIMUM CONCRETE COVER SHALL BE PROVIDED FOR REINFORCING STEEL UNLESS SHOWN OTHERWISE ON DRAWINGS:

BEAMS AND COLUMNS1½ IN.

5. A CHAMFER 34" SHALL BE PROVIDED AT ALL EXPOSED EDGES OF CONCRETE, UNO, IN ACCORDANCE WITH ACI 301 SECTION

6. INSTALLATION OF CONCRETE EXPANSION/WEDGE ANCHORS SHALL BE PER MANUFACTURER'S WRITTEN RECOMMENDED PROCEDURE. THE ANCHOR BOLT, DOWEL OR ROD SHALL CONFORM TO THE MANUFACTURERS RECOMMENDATION FOR EMBEDMENT DEPTH OR AS SHOWN ON THE DRAWINGS. NO REBAR SHALL BE CUT WITHOUT PRIOR CONTRACTOR APPROVAL WHEN DRILLING HOLES IN CONCRETE. SPECIAL INSPECTIONS, REQUIRED BY GOVERNING CODES, SHALL BE PERFORMED IN ORDER TO MAINTAIN MANUFACTURER'S MAXIMUM ALLOWABLE LOADS. ALL EXPANSION/WEDGE ANCHORS SHALL BE STAINLESS STEEL OR HOT DIPPED GALVANIZED. EXPANSION BOLTS SHALL BE PROVIDED BY SIMPSON OR APPROVED EQUAL.

7. CONCRETE CYLINDER TIES ARE NOT REQUIRED FOR SLAB ON GRADE WHEN CONCRETE IS LESS THAN 50 CUBIC YARDS (IBC1905.6.2.3) IN THAT EVENT THE FOLLOWING RECORDS SHALL BE PROVIDED BY THE CONCRETE SUPPLIER;

(A) RESULTS OF CONCRETE CYLINDER TEST PERFORMED AT THE SUPPLIERS PLANT.

(B) CERTIFICATION OF MINIMUM COMPRESSIVE STRENGTH FOR THE CONCRETE GRADE SUPPLIED.

FOR GREATER THAN 50 CUBIC YARDS THE GC SHALL PERFORM THE CONCRETE CYLINDER TEST.

8. AS AN ALTERNATIVE TO ITEM 7. TEST CYLINDERS SHALL BE TAKEN INITIALLY AND THEREAFTER FOR EVERY 50 YARDS OF

9. EQUIPMENT SHALL NOT BE PLACED ON NEW PADS FOR SEVEN DAYS AFTER PAD IS POURED, UNLESS IT IS VERIFIED BY CYLINDER TESTS THAT COMPRESSIVE STRENGTH HAS BEEN ATTAINED.

STRUCTURAL STEEL NOTES:

CONCRETE FROM EACH DIFFERENT BATCH PLANT.

1. ALL STEEL WORK SHALL BE PAINTED OR GALVANIZED IN ACCORDANCE WITH THE DRAWINGS AND T-MOBILE SPECIFICATIONS UNLESS OTHERWISE NOTED. STRUCTURAL STEEL SHALL BE ASTM-A-36 UNLESS OTHERWISE NOTED ON THE SITE SPECIFIC DRAWINGS. STEEL DESIGN, INSTALLATION AND BOLTING SHALL BE IN ACCORDANCE WITH THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) "MANUAL OF STEEL CONSTRUCTION".

2. ALL WELDING SHALL BE PERFORMED USING E70XX ELECTRODES AND WELDING SHALL CONFORM TO AISC AND AWS D1.1. WHERE FILLET WELD SIZES ARE NOT SHOWN, PROVIDE THE MINIMUM SIZE PER TABLE J2.4 IN THE AISC "MANUAL OF STEEL CONSTRUCTION", 9TH EDITION. PAINTED SURFACES SHALL BE TOUCHED UP.

3. BOLTED CONNECTIONS SHALL USE BEARING TYPE ASTM A325 BOLTS (¾"ø) AND SHALL HAVE MINIMUM OF TWO BOLTS UNLESS NOTED OTHERWISE. ALL BOLTS SHALL BE GALVANIZED OR STAINLESS STEEL.

4. NON-STRUCTURAL CONNECTIONS FOR STEEL GRATING MAY USE %" DIA. ASTM A 307 BOLTS (GALV) UNLESS NOTED OTHERWISE.

5. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR ENGINEER REVIEW & APPROVAL ON PROJECTS REQUIRING STRUCTURAL STEEL

6. ALL STRUCTURAL STEEL WORK SHALL BE DONE IN ACCORDANCE WITH AISC SPECIFICATIONS.

SOIL COMPACTION NOTES FOR SLAB ON GRADE:

1. EXCAVATE AS REQUIRED TO REMOVE VEGETATION AND TOPSOIL TO EXPOSE NATURAL SUBGRADE AND PLACE CRUSHED STONE AS REQUIRED.

2. COMPACTION CERTIFICATION: AN INSPECTION AND WRITTEN CERTIFICATION BY A QUALIFIED GEOTECHNICAL TECHNICIAN OR ENGINEER IS ACCEPTABLE.

3. AS AN ALTERNATE TO INSPECTION AND WRITTEN CERTIFICATION, THE "UNDISTURBED SOIL" BASE SHALL BE COMPACTED WITH "COMPACTION EQUIPMENT", LISTED BELOW, TO AT LEAST 90% MODIFIED PROCTOR MAXIMUM DENSITY PER ASTM D 1557

- 4. COMPACTED SUBBASE SHALL BE UNIFORM AND LEVELED. PROVIDE 6" MINIMUM CRUSHED STONE OR GRAVEL COMPACTED IN 3" LIFTS ABOVE COMPACTED SOIL. GRAVEL SHALL BE NATURAL OR CRUSHED WITH 100% PASSING #1 SIEVE.
- 5. AS AN ALTERNATE TO ITEMS 2 AND 3, THE SUBGRADE SOILS WITH 5 PASSES OR A MEDIUM SIZED VIBRATORY PLATE COMPACTOR (SUCH AS BOMAG BPR 30/38) OR HAND-OPERATED SINGLE DRUM VIBRATORY ROLLER (SUCH AS BOMAG BW 55E). AND SOFT AREAS THAT ARE ENCOUNTERED SHOULD BE REMOVED AND REPLACED WITH A WELL-GRADED GRANULAR FILL AND COMPACTED AS STATED ABOVE.

COMPACTION EQUIPMENT:

1. HAND OPERATED DOUBLE DRUN, VIBRATORY ROLLER, VIBRATORY PLATE COMPACTOR OR JUMPING JACK COMPACTOR.

CONSTRUCTION NOTES:

1. FIELD VERIFICATION:

METHOD C.

SUBCONTRACTOR SHALL FIELD VERIFY SCOPE OF WORK, T-MOBILE ANTENNA PLATFORM LOCATION AND UTILITY TRENCHWORK.

2. COORDINATION OF WORK: SUBCONTRACTOR SHALL COORDINATE RF WORK AND PROCEDURES WITH CONTRACTOR.

SUBCONTRACTOR SHALL COORDINATE RE WORK AND PROCEDURES WITH CONTRACTOR.

3. CABLE LADDER RACK:

SUBCONTRACTOR SHALL FURNISH AND INSTALL CABLE LADDER RACK, CABLE TRAY AND/OR ICE BRIDGE, AND CONDUIT AS REQUIRED TO SUPPORT CABLES TO THE NEW BTS LOCATION.

ELECTRICAL INSTALLATION NOTES:

1. WIRING, RACEWAY, AND SUPPORT METHODS AND MATERIALS SHALL COMPLY WITH THE REQUIREMENTS OF THE NEC AND TELCORDIA.

2. SUBCONTRACTOR SHALL MODIFY OR INSTALL CABLE TRAY SYSTEM AS REQUIRED TO SUPPORT RF AND TRANSPORT CABLING TO THE NEW BTS EQUIPMENT. SUBCONTRACTOR SHALL SUBMIT MODIFICATIONS TO CONTRACTOR FOR APPROVAL.

- 3. ALL CIRCUITS SHALL BE SEGREGATED AND MAINTAIN MINIMUM CABLE SEPARATION AS REQUIRED BY THE NEC AND TELCORDIA
- 4. CABLES SHALL NOT BE ROUTED THROUGH LADDER-STYLE CABLE TRAY RUNGS.
- 5. EACH END OF EVERY POWER, GROUNDING, AND T1 CONDUCTOR AND CABLE SHALL BE LABELED WITH COLOR—CODED INSULATION OR ELECTRICAL TAPE (3M BRAND, 1/2 INCH PLASTIC ELECTRICAL TAPE WITH UV PROTECTION, OR EQUAL). THE IDENTIFICATION METHOD SHALL CONFORM WITH NEC AND OSHA, AND MATCH INSTALLATION REQUIREMENTS.
- 6. POWER PHASE CONDUCTORS (I.E., HOTS) SHALL BE LABELED WITH COLOR—CODED INSULATION OR ELECTRICAL TAPE (3M BRAND, ½ INCH PLASTIC ELECTRICAL TAPE WITH UV PROTECTION, OR EQUAL). PHASE CONDUCTOR COLOR CODES SHALL CONFORM WITH THE NEC AND OSHA.
- 7. ALL ELECTRICAL COMPONENTS SHALL BE CLEARLY LABELED WITH ENGRAVED LAMACOID PLASTIC LABELS. ALL EQUIPMENT SHALL BE LABELED WITH THEIR VOLTAGE RATING, PHASE CONFIGURATION, WIRE CONFIGURATION, POWER OR AMPACITY RATING, AND BRANCH CIRCUIT ID NUMBERS (I.E., PANELBOARD AND CIRCUIT ID'S).
- 8. PANELBOARDS (ID NUMBERS) AND INTERNAL CIRCUIT BREAKERS (CIRCUIT ID NUMBERS) SHALL BE CLEARLY LABELED WITH ENGRAVED LAMACOID PLASTIC LABELS.
- 9. ALL TIE WRAPS SHALL BE CUT FLUSH WITH APPROVED CUTTING TOOL TO REMOVE SHARP EDGES.

10. POWER, CONTROL, AND EQUIPMENT GROUND WIRING IN TUBING OR CONDUIT SHALL BE SINGLE CONDUCTOR (#34 AWG OR LARGER), 600 V, OIL RESISTANT THHN OR THWN-2, CLASS B STRANDED COPPER CABLE RATED FOR 90 °C (WET AND DRY) OPERATION; LISTED OR LABELED FOR THE LOCATION AND RACEWAY SYSTEM USED, UNLESS OTHERWISE SPECIFIED.

11. SUPPLEMENTAL EQUIPMENT GROUND WIRING LOCATED INDOORS SHALL BE SINGLE CONDUCTOR (#6 AWG OR LARGER), 600 V, OIL RESISTANT THHN OR THWN-2 GREEN INSULATION, CLASS B STRANDED COPPER CABLE RATED FOR 90 °C (WET AND DRY) OPERATION; LISTED OR LABELED FOR THE LOCATION AND RACEWAY SYSTEM USED, UNLESS OTHERWISE SPECIFIED.

12. SUPPLEMENTAL EQUIPMENT GROUND WIRING LOCATED OUTDOORS, OR BELOW GRADE, SHALL BE SINGLE CONDUCTOR #2 AWG SOLID TINNED COPPER CABLE, UNLESS OTHERWISE SPECIFIED.

13. POWER AND CONTROL WIRING, NOT IN TUBING OR CONDUIT, SHALL BE MULTI-CONDUCTOR, TYPE TC CABLE (#34 AWG OR LARGER), 600 V, OIL RESISTANT THHN OR THWN-2, CLASS B STRANDED COPPER CABLE RATED FOR 90 °C (WET AND DRY) OPERATION; WITH OUTER JACKET; LISTED OR LABELED FOR THE LOCATION USED, UNLESS OTHERWISE SPECIFIED.

14. ALL POWER AND GROUNDING CONNECTIONS SHALL BE CRIMP—STYLE, COMPRESSION WIRE LUGS AND WIRENUTS BY HARGER (OR EQUAL). LUGS AND WIRENUTS SHALL BE RATED FOR OPERATION AT NO LESS THAN 75°C (90°C IF AVAILABLE).

15. RACEWAY AND CABLE TRAY SHALL BE LISTED OR LABELED FOR ELECTRICAL USE IN ACCORDANCE WITH NEMA, UL, ANSI/IEEE AND NEC.

16. NEW RACEWAY OR CABLE TRAY WILL MATCH THE EXISTING INSTALLATION WHERE POSSIBLE.

17. ELECTRICAL METALLIC TUBING (EMT) OR RIGID NONMETALLIC CONDUIT (I.E., RIGID PVC SCHEDULE 40 OR RIGID PVC SCHEDULE 80 FOR LOCATIONS SUBJECT TO PHYSICAL DAMAGE) SHALL BE USED FOR EXPOSED INDOOR LOCATIONS.

18. ELECTRICAL METALLIC TUBING (EMT), ELECTRICAL NONMETALLIC TUBING (ENT), OR RIGID NONMETALLIC CONDUIT (RIGID PVC, SCHEDULE 40) SHALL BE USED FOR CONCEALED INDOOR LOCATIONS.

19. GALVANIZED STEEL INTERMEDIATE METALLIC CONDUIT (IMC) SHALL BE USED FOR OUTDOOR LOCATIONS ABOVE

20. RIGID NONMETALLIC CONDUIT (I.E., RIGID PVC SCHEDULE 40 OR RIGID PVC SCHEDULE 80) SHALL BE USED UNDERGROUND; DIRECT BURIED, IN AREAS OF OCCASIONAL LIGHT VEHICLE TRAFFIC OR ENCASED IN REINFORCED CONCRETE IN AREAS OF HEAVY VEHICLE TRAFFIC.

21. LIQUID-TIGHT FLEXIBLE METALLIC CONDUIT (LIQUID-TITE FLEX) SHALL BE USED INDOORS AND OUTDOORS, WHERE VIBRATION OCCURS OR FLEXIBILITY IS NEFDED.

22. CONDUIT AND TUBING FITTINGS SHALL BE THREADED OR COMPRESSION—TYPE AND APPROVED FOR THE LOCATION

23. CABINETS, BOXES AND WIREWAYS SHALL BE LISTED OR LABELED FOR ELECTRICAL USE IN ACCORDANCE WITH NEMA, UL, ANSI/IEEE AND NEC.

24. CABINETS. BOXES AND WIREWAYS TO MATCH THE EXISTING INSTALLATION WHERE POSSIBLE.

USED. SETSCREW FITTINGS ARE NOT ACCEPTABLE.

25. WIREWAYS SHALL BE EPOXY—COATED (GRAY) AND INCLUDE A HINGED COVER, DESIGNED TO SWING OPEN DOWNWARD; SHALL BE PANDUIT TYPE E (OR EQUAL); AND RATED NEMA 1 (OR BETTER) INDOORS, OR NEMA 3R (OR BETTER) OUTDOORS.

26. EQUIPMENT CABINETS, TERMINAL BOXES, JUNCTION BOXES, AND PULL BOXES SHALL BE GALVANIZED OR EPOXY—COATED SHEET STEEL, SHALL MEET OR EXCEED UL 50, AND RATED NEMA 1 (OR BETTER) INDOORS, OR NEMA 3R (OR BETTER) OUTDOORS.

27. METAL RECEPTACLE, SWITCH, AND DEVICE BOXES SHALL BE GALVANIZED, EPOXY-COATED, OR NON-CORRODING; SHALL MEET OR EXCEED UL 514A AND NEMA OS 1; AND RATED NEMA 1 (OR BETTER) INDOORS, OR WEATHER PROTECTED (WP OR BETTER) OUTDOORS.

28. NONMETALLIC RECEPTACLE, SWITCH, AND DEVICE BOXES SHALL MEET OR EXCEED NEMA OS 2; AND RATED NEMA 1 (OR BETTER) INDOORS, OR WEATHER PROTECTED (WP OR BETTER) OUTDOORS.

29. THE SUBCONTRACTOR SHALL NOTIFY AND OBTAIN NECESSARY AUTHORIZATION FROM THE CONTRACTOR BEFORE COMMENCING WORK ON THE AC POWER DISTRIBUTION PANELS.

30. THE SUBCONTRACTOR SHALL PROVIDE NECESSARY TAGGING ON THE BREAKERS, CABLES AND DISTRIBUTION PANELS IN ACCORDANCE WITH THE APPLICABLE CODES AND STANDARDS TO SAFEGUARD AGAINST LIFE AND PROPERTY.

31. ALL ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS, NEC AND ALL APPLICABLE LOCAL CODES.

32. CONDUIT ROUTINGS ARE SCHEMATIC. SUBCONTRACTOR SHALL INSTALL CONDUITS SO THAT ACCESS TO EQUIPMENT IS NOT BLOCKED.

T-MOBILE NORTHEAST LLC

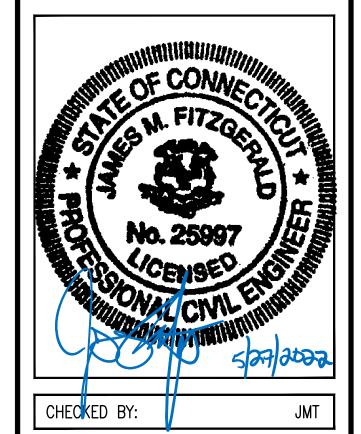
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APPROVED BY:

SITE NUMBER: CT11090A

0 | 06/17/20 | ISSUED FOR REVIEW

SITE ADDRESS: 411 WEST PUTNAM AVENUE GREENWICH, CT 06830

SHEET TITLE

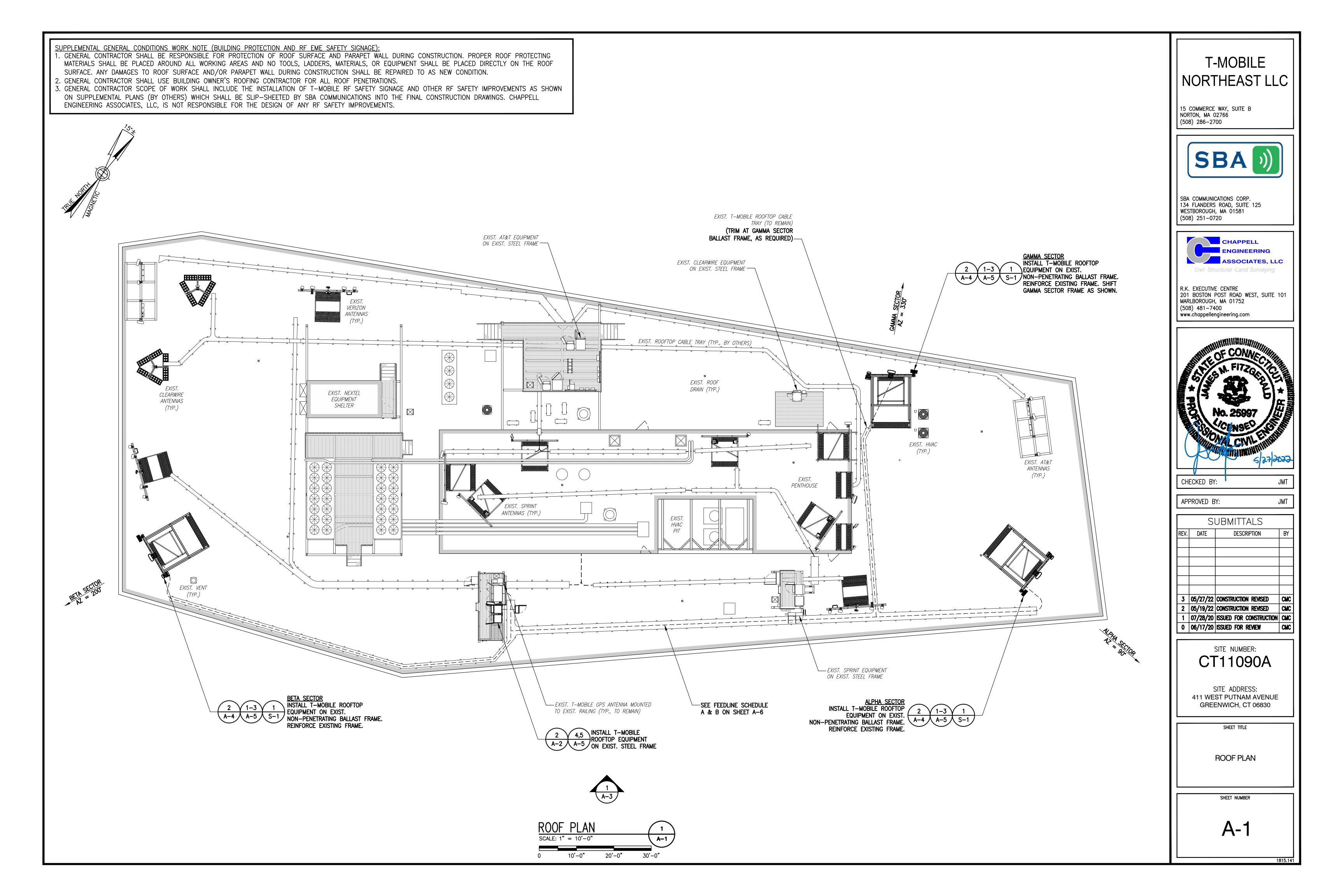
GENERAL NOTES

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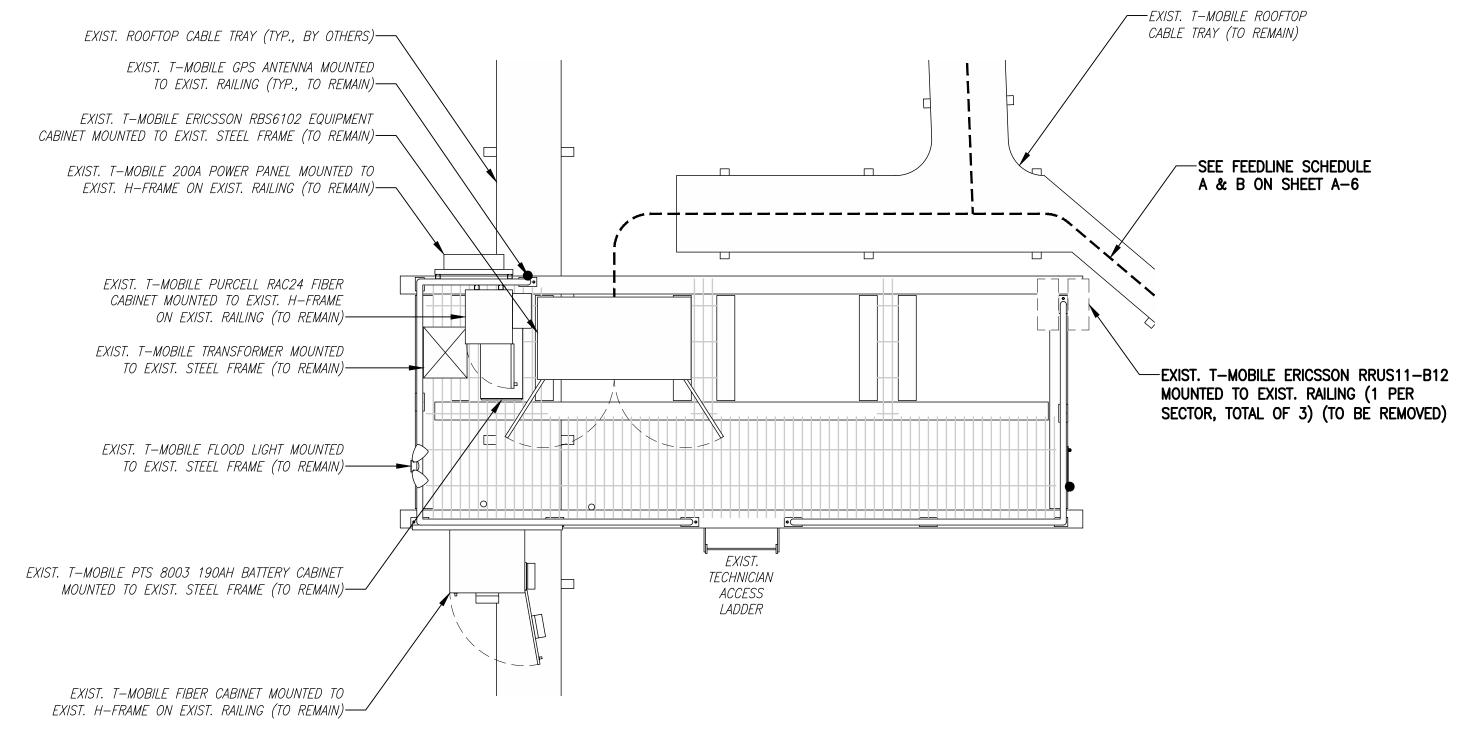


SUPPLEMENTAL GENERAL CONDITIONS WORK NOTE (BUILDING PROTECTION AND RF EME SAFETY SIGNAGE):

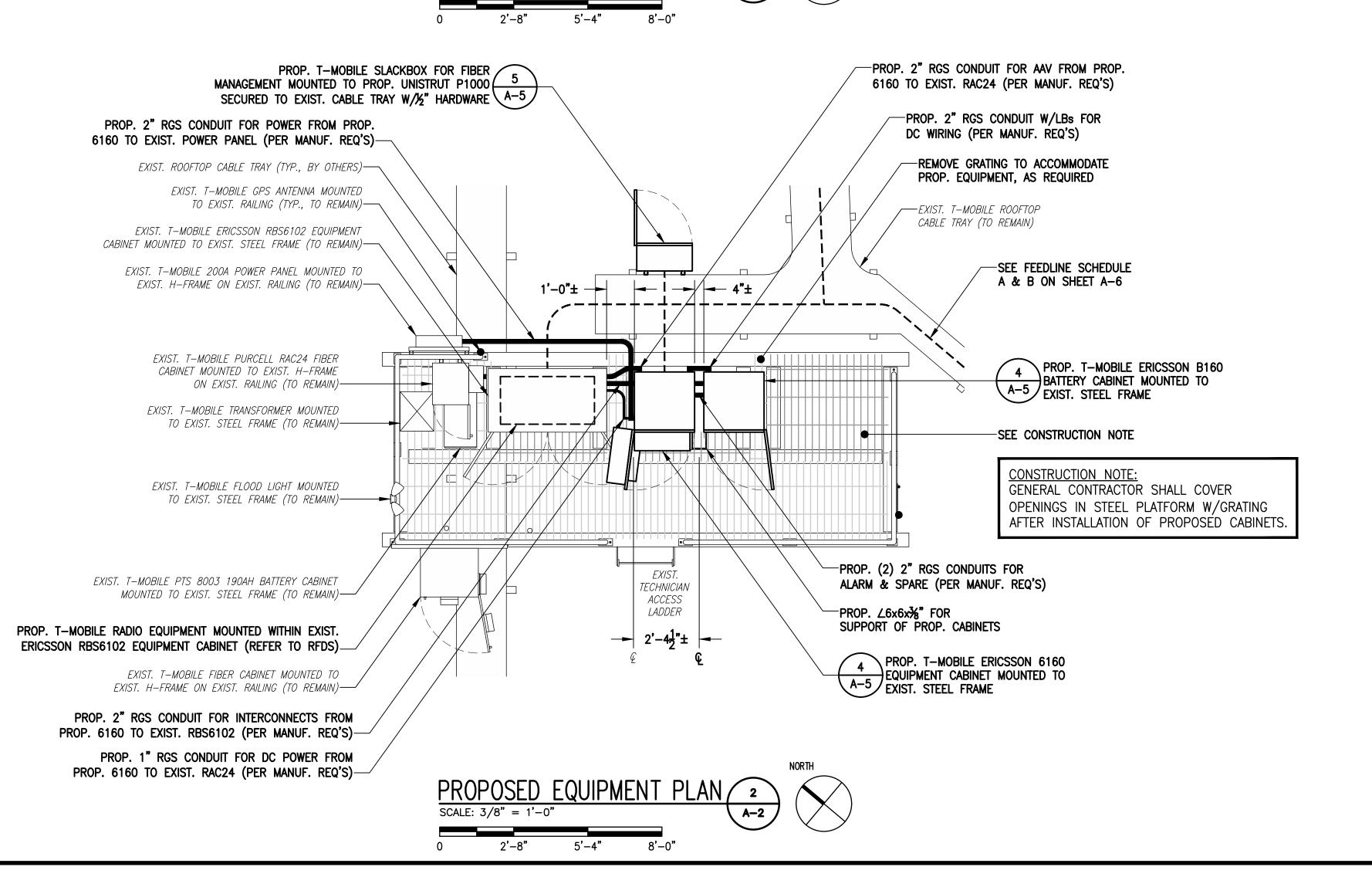
- 1. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTION OF ROOF SURFACE AND PARAPET WALL DURING CONSTRUCTION. PROPER ROOF PROTECTING MATERIALS SHALL BE PLACED AROUND ALL WORKING AREAS AND NO TOOLS, LADDERS, MATERIALS, OR EQUIPMENT SHALL BE PLACED DIRECTLY ON THE ROOF SURFACE. ANY DAMAGES TO ROOF SURFACE AND/OR PARAPET WALL DURING CONSTRUCTION SHALL BE REPAIRED TO AS NEW CONDITION.
- 2. GENERAL CONTRACTOR SHALL USE BUILDING OWNER'S ROOFING CONTRACTOR FOR ALL ROOF PENETRATIONS.
- 3. GENERAL CONTRACTOR SCOPE OF WORK SHALL INCLUDE THE INSTALLATION OF T-MOBILE RF SAFETY SIGNAGE AND OTHER RF SAFETY IMPROVEMENTS AS SHOWN ON SUPPLEMENTAL PLANS (BY OTHERS) WHICH SHALL BE SLIP-SHEETED BY SBA COMMUNICATIONS INTO THE FINAL CONSTRUCTION DRAWINGS. CHAPPELL ENGINEERING ASSOCIATES, LLC, IS NOT RESPONSIBLE FOR THE DESIGN OF ANY RF SAFETY IMPROVEMENTS.



EXISTING EQUIPMENT PHOTO







T-MOBILE NORTHEAST LLC

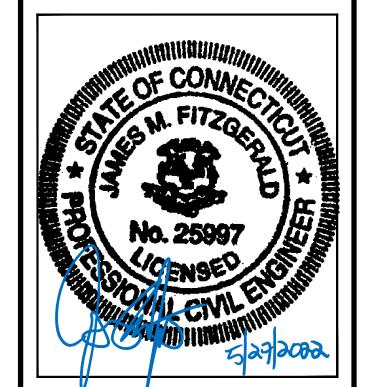
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3	05/27/22	CONSTRUCTION REVISED	CMC
2	05/19/22	CONSTRUCTION REVISED	CMC
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SHEET TITLE

EQUIPMENT PLANS

SHEET NUMBER

A-2

1815.1

SUPPLEMENTAL GENERAL CONDITIONS WORK NOTE (BUILDING PROTECTION AND RF EME SAFETY SIGNAGE):

GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTION OF ROOF SURFACE AND PARAPET WALL DURING CONSTRUCTION. PROPER ROOF PROTECTING MATERIALS SHALL BE PLACED AROUND ALL WORKING AREAS AND NO TOOLS, LADDERS, MATERIALS, OR EQUIPMENT SHALL BE PLACED DIRECTLY ON THE ROOF SURFACE. ANY DAMAGES TO ROOF SURFACE AND/OR PARAPET WALL DURING CONSTRUCTION SHALL BE REPAIRED TO AS NEW CONDITION.

2. GENERAL CONTRACTOR SHALL USE BUILDING OWNER'S ROOFING CONTRACTOR FOR ALL ROOF PENETRATIONS.

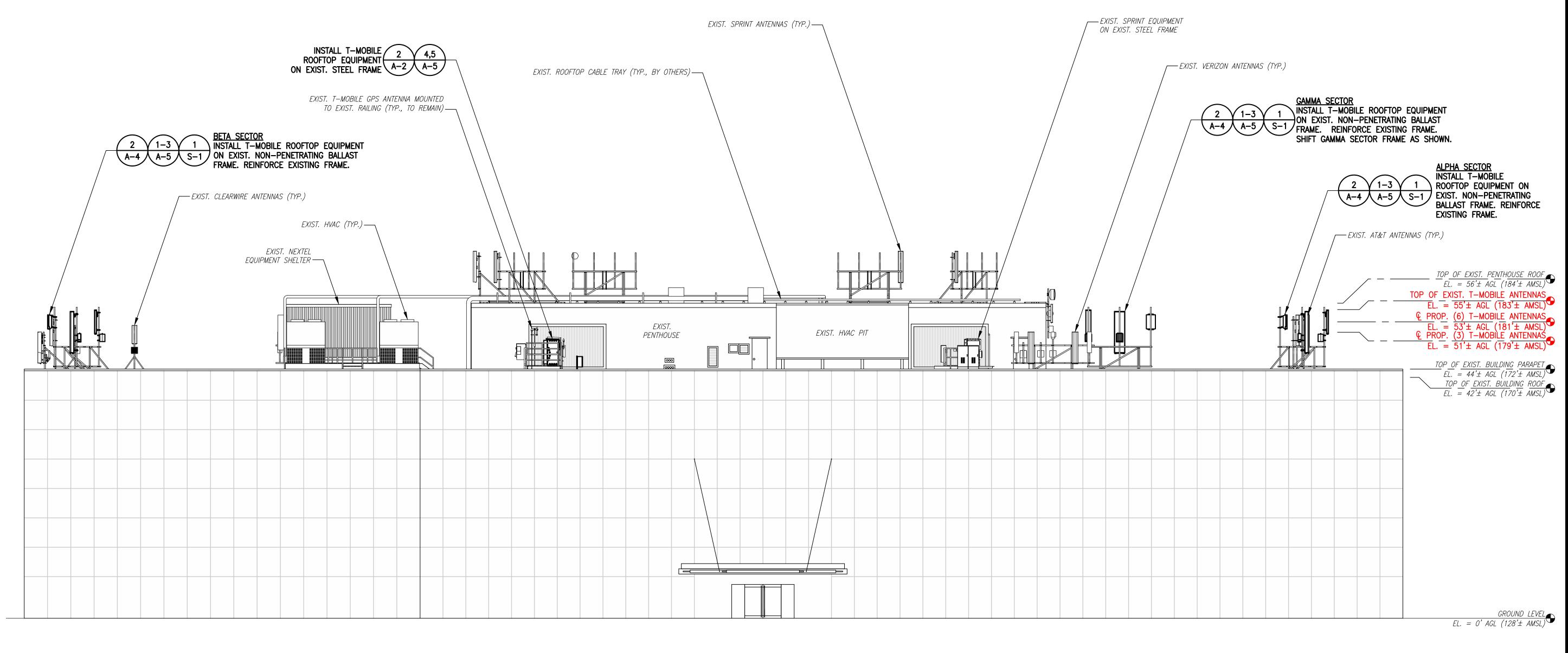
3. GENERAL CONTRACTOR SCOPE OF WORK SHALL INCLUDE THE INSTALLATION OF T-MOBILE RF SAFETY SIGNAGE AND OTHER RF SAFETY IMPROVEMENTS AS SHOWN ON SUPPLEMENTAL PLANS (BY OTHERS) WHICH SHALL BE SLIP—SHEETED BY SBA COMMUNICATIONS INTO THE FINAL CONSTRUCTION DRAWINGS. CHAPPELL ENGINEERING ASSOCIATES, LLC, IS NOT RESPONSIBLE FOR THE DESIGN OF ANY RF SAFETY IMPROVEMENTS.

RAD CENTER NOTE:

T-MOBILE RAD CENTER SHOWN IN RED TEXT BASED ON SBA-PROVIDED CO-LOCATION APPLICATION, EQUIPMENT DATABASE, AND STRUCTURAL ANALYSIS. THE SBA-PROVIDED ANTENNA RAD CENTER SHALL SUPERSEDE ANY CONFLICTING INFORMATION DERIVED FROM THE T-MOBILE RFDS.

GENERAL CONTRACTOR NOTE:
GENERAL CONTRACTOR SHALL REFER TO
MOUNT STRUCTURAL ANALYSIS AND ANY MOUNT
MODIFICATION DESIGN PROVIDED BY SBA

T-MOBILE MUST REPLACE THEIR EXISTING
SUBMETER WITH A REMOTE READABLE
SUBMETER AND PROVIDE MONTHLY READING
TO SBA MANAGEMENT SITES.



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T-MOBILE NORTHEAST LLC

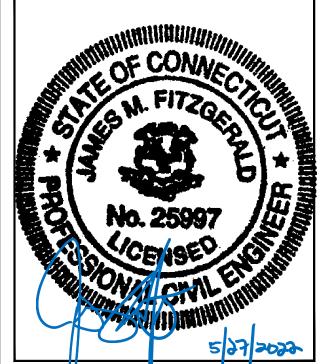
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0	06/17/20	ISSUED FOR REVIEW	CMC

SITE NUMBER: CT11090A

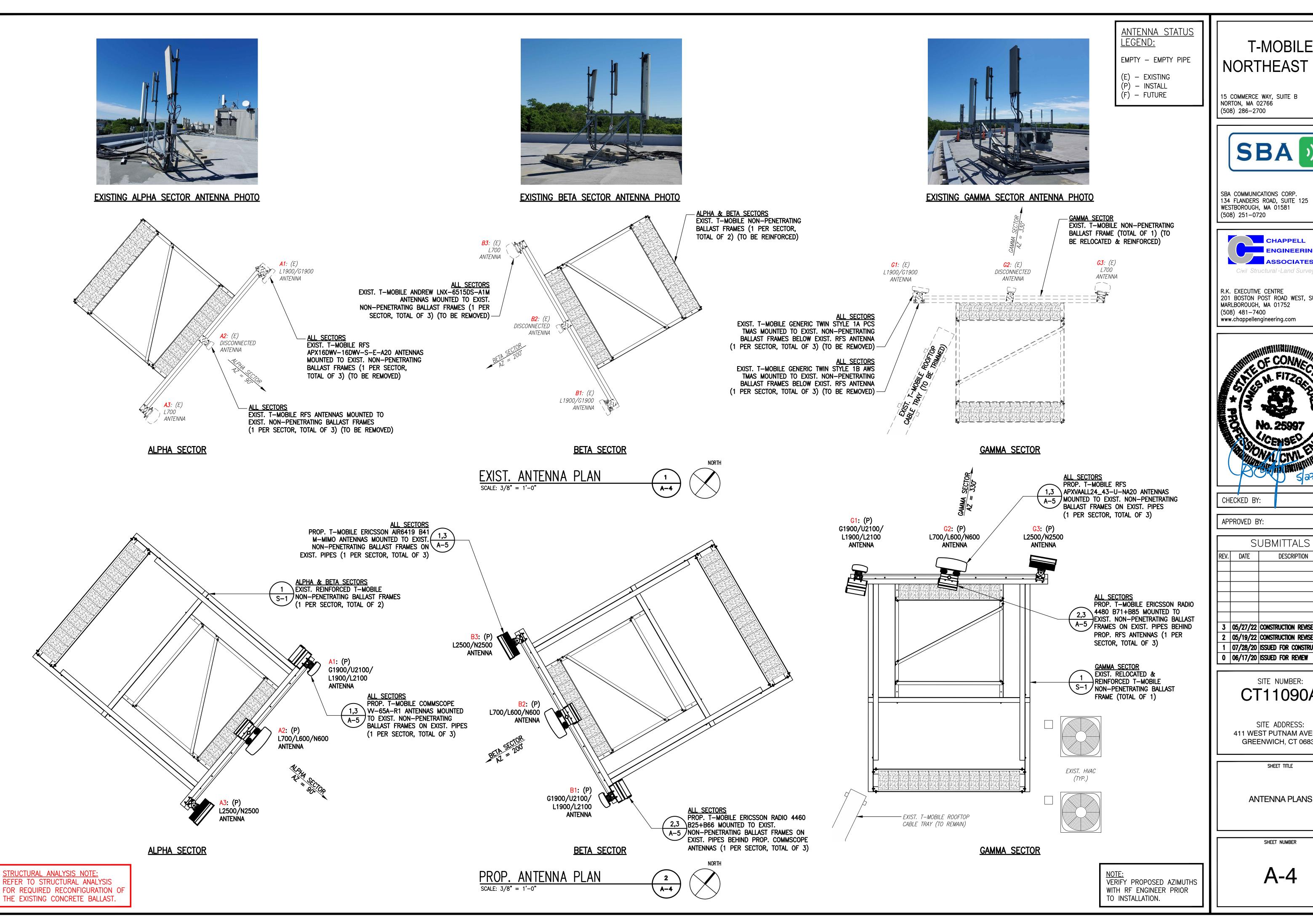
SITE ADDRESS: 411 WEST PUTNAM AVENUE GREENWICH, CT 06830

SHEET TITLE

BUILDING ELEVATION

SHEET NUMBER

A-3



T-MOBILE NORTHEAST LLC

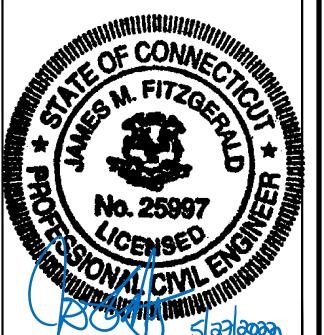
15 COMMERCE WAY, SUITE B NORTON, MA 02766 (508) 286-2700



SBA COMMUNICATIONS CORP. 134 FLANDERS ROAD, SUITE 125 WESTBOROUGH, MA 01581 (508) 251-0720



R.K. EXECUTIVE CENTRE 201 BOSTON POST ROAD WEST, SUITE 101 MARLBOROUGH, MA 01752 (508) 481-7400 www.chappellengineering.com



CHECKED BY:

APPROVED BY:

	S	UBMITTALS	
REV.	DATE	DESCRIPTION	BY
3		CONSTRUCTION REVISED	CMC
2	05/19/22	CONSTRUCTION REVISED	CMC
1	07/28/20	ISSUED FOR CONSTRUCTION	CMC
	00 /47 /00	IOOUED FOR DEVEN	2442

SITE NUMBER: CT11090A

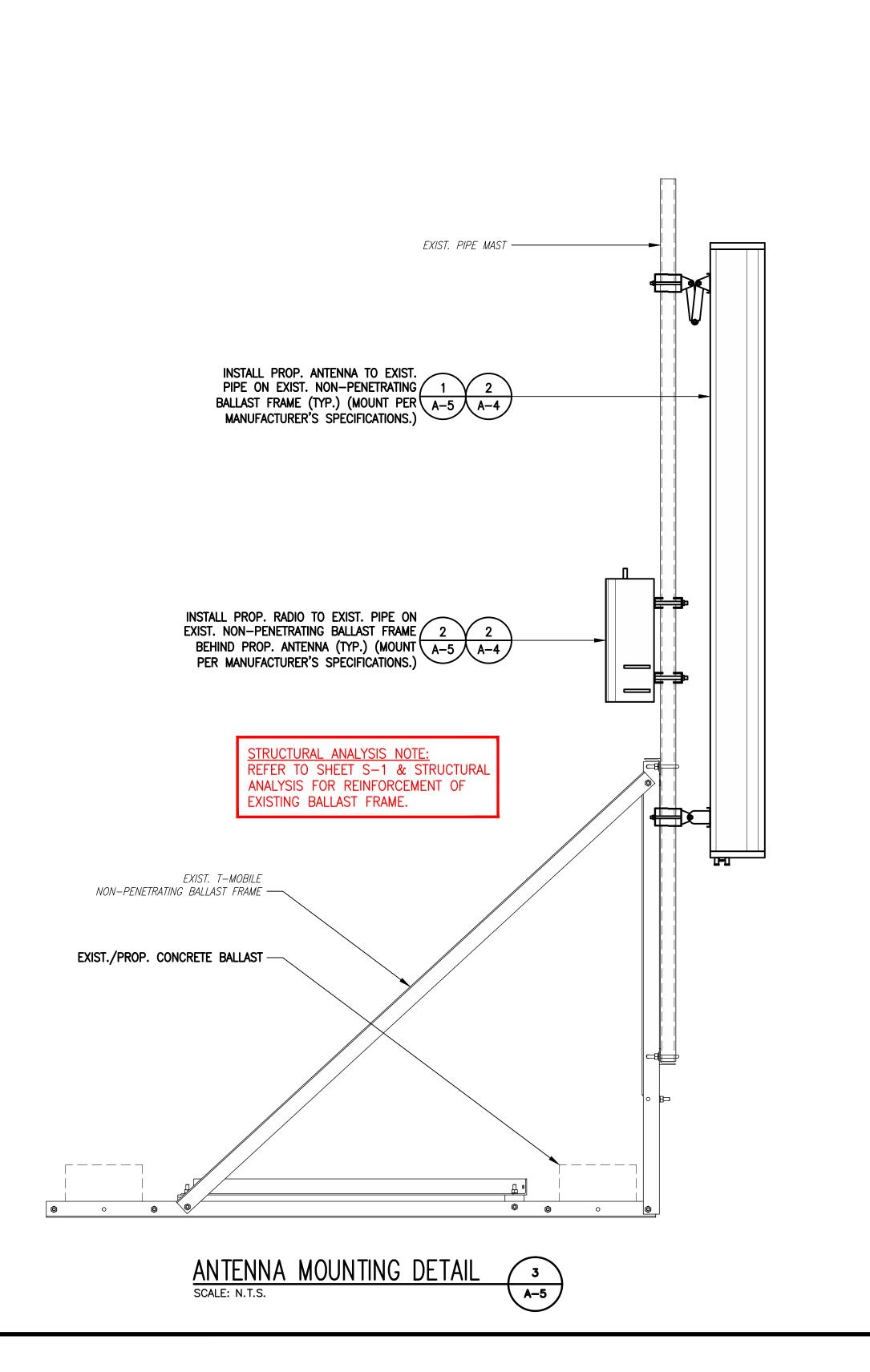
SITE ADDRESS: 411 WEST PUTNAM AVENUE GREENWICH, CT 06830

SHEET TITLE

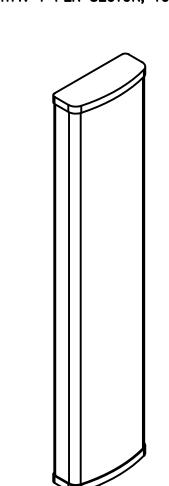
ANTENNA PLANS

SHEET NUMBER

A-4







COMMSCOPE VV-65A-R1 ANTENNA

DIMENSIONS: 54.7"H x 12.1"W x 4.6"D

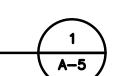
WEIGHT: 23.8 lbs

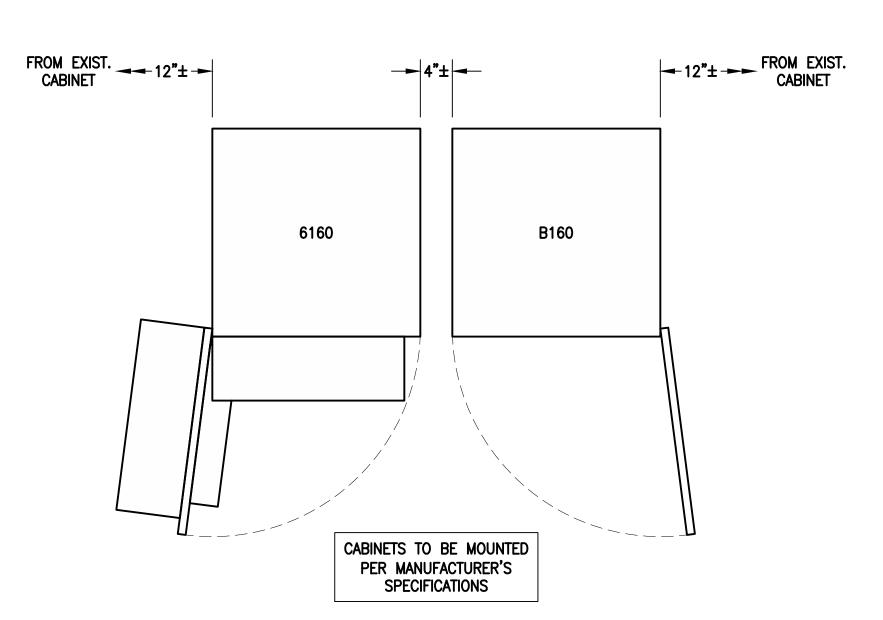
QUANTITY: 1 PER SECTOR, TOTAL OF 3



RFS APXVAALL24_43-U-NA20 ANTENNA

DIMENSIONS: 95.9"H x 24.0"W x 8.5"D WEIGHT: 122.8 lbs QUANTITY: 1 PER SECTOR, TOTAL OF 3





ERICSSON 6160 SITE SUPPORT CABINET

DIMENSIONS: 63.25"H x 26.0"W x 34.0"D

QUANTITY: TOTAL OF 1

ERICSSON B160 BATTERY CABINET

DIMENSIONS: 63.25"H x 26.0"W x 26.0"D

QUANTITY: TOTAL OF 1





ERICSSON RADIO 4460 B25+B66

DIMENSIONS: 17.0"H x 15.1"W x 11.9"D

WEIGHT: 104.0 lbs

QUANTITY: 1 PER SECTOR, TOTAL OF 3



ERICSSON RADIO 4480 B71+B85

DIMENSIONS: 19.2"H x 15.1"W x 7.5"D

WEIGHT: 92.6 lbs

QUANTITY: 1 PER SECTOR, TOTAL OF 3

RADIO DETAIL
SCALE: N.T.S.

2 A-5



SLACKBOX — HOFFMAN 32FH91

NEMA 3R ENCLOSURE

DIMENSIONS: 24.0"H x 24.0"W x 12.0"D

QUANTITY: TOTAL OF 1

SSC DETAILS
SCALE: N.T.S.

5 A-5

T-MOBILE NORTHEAST LLC

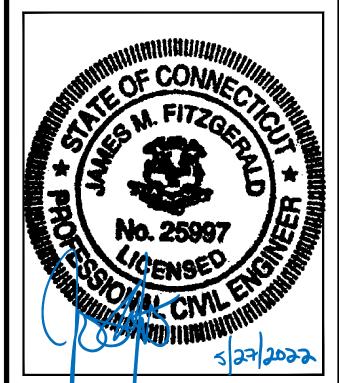
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CHECKED	BY:	JMT

APPROVED BY: JM

	SI	UBMITTALS			
REV.	DATE	DESCRIPTION	B۱		
3	05/27/22	CONSTRUCTION REVISED	CM		
2	05/19/22	CONSTRUCTION REVISED	CM		
1	07/28/20	ISSUED FOR CONSTRUCTION	CM		

SITE NUMBER: CT11090A

0 06/17/20 ISSUED FOR REVIEW

SITE ADDRESS: 411 WEST PUTNAM AVENUE GREENWICH, CT 06830

SHEET TITLE

SITE DETAILS

SHEET NUMBER

A-5

1815.1

DAD AZIMUTU MEGHANIGAL SUSOTDIGAL											
SECTOR	ANTENNA	RAD CENTER	AZIMUTH (TRUE NORTH)	MECHANICAL DOWNTILT	ELECTRICAL DOWNTILT	BAND	TMA/RADIOS	CABLES			
	COMMSCOPE W-65A-R1	53'± AGL	90°	0.	4°	G1900/U2100/L1900/L2100	ERICSSON RADIO 4460 B25+B66				
ALPHA	RFS APXVAALL24_43-U-NA20	51'± AGL	90°	0°	2°	L700/L600/N600	ERICSSON RADIO 4480 B71+B85				
	ERICSSON M-MIMO AIR6419 B41	53'± AGL	90°	0°	2°	L2500/N2500	-				
	COMMSCOPE W-65A-R1	53'± AGL	200°	0°	4*	G1900/U2100/L1900/L2100	ERICSSON RADIO 4460 B25+B66				
BETA	RFS APXVAALL24_43-U-NA20	51'± AGL	200°	0°	2°	L700/L600/N600	ERICSSON RADIO 4480 B71+B85	PROP. (6) 1.9" (6x24) HCS FIBER CABLE			
	ERICSSON M-MIMO AIR6419 B41	53'± AGL	200°	0°	2°	L2500/N2500	-				
	COMMSCOPE W-65A-R1	53'± AGL	330°	0°	4°	G1900/U2100/L1900/L2100	ERICSSON RADIO 4460 B25+B66				
GAMMA	RFS APXVAALL24_43-U-NA20	51'± AGL	330°	0,	2°	L700/L600/N600	ERICSSON RADIO 4480 B71+B85				
	ERICSSON M-MIMO AIR6419 B41	53'± AGL	330°	0.	2°	L2500/N2500	_				

NOTE: RFDS REV6 - 01/28/22

FEEDLINE SCHEDULE									
SCHEDULE		FEEDLINES	LOCATION						
А	EXISTING TO REMAIN:	(1) V_2 " COAX FOR GPS ANTENNA							
	EXISTING TO BE REMOVED:	ROUTED PER STRUCTURAL							
В	PROPOSED:	(6)1.9"(6x24) HCS FIBER CABLES	ANALYSIS						
	OBILE EQUIPMENT FEEDLIN SING ENTITLEMENTS MAY D	E INVENTORY BASED ON OBSERVED FIE	ELD CONDITIONS. RFDS AND						

T-MOBILE NORTHEAST LLC

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CHECKED BY: JM

APPROVED BY:

	S	UBMITTALS	
REV.	DATE	DESCRIPTION	B,
3	05/27/22	CONSTRUCTION REVISED	CIN
2	05/19/22	CONSTRUCTION REVISED	CN
1	07/28/20	ISSUED FOR CONSTRUCTION	CN
0	06/17/20	ISSUED FOR REVIEW	CN

SITE NUMBER:
CT11090A

SITE ADDRESS: 411 WEST PUTNAM AVENUE GREENWICH, CT 06830

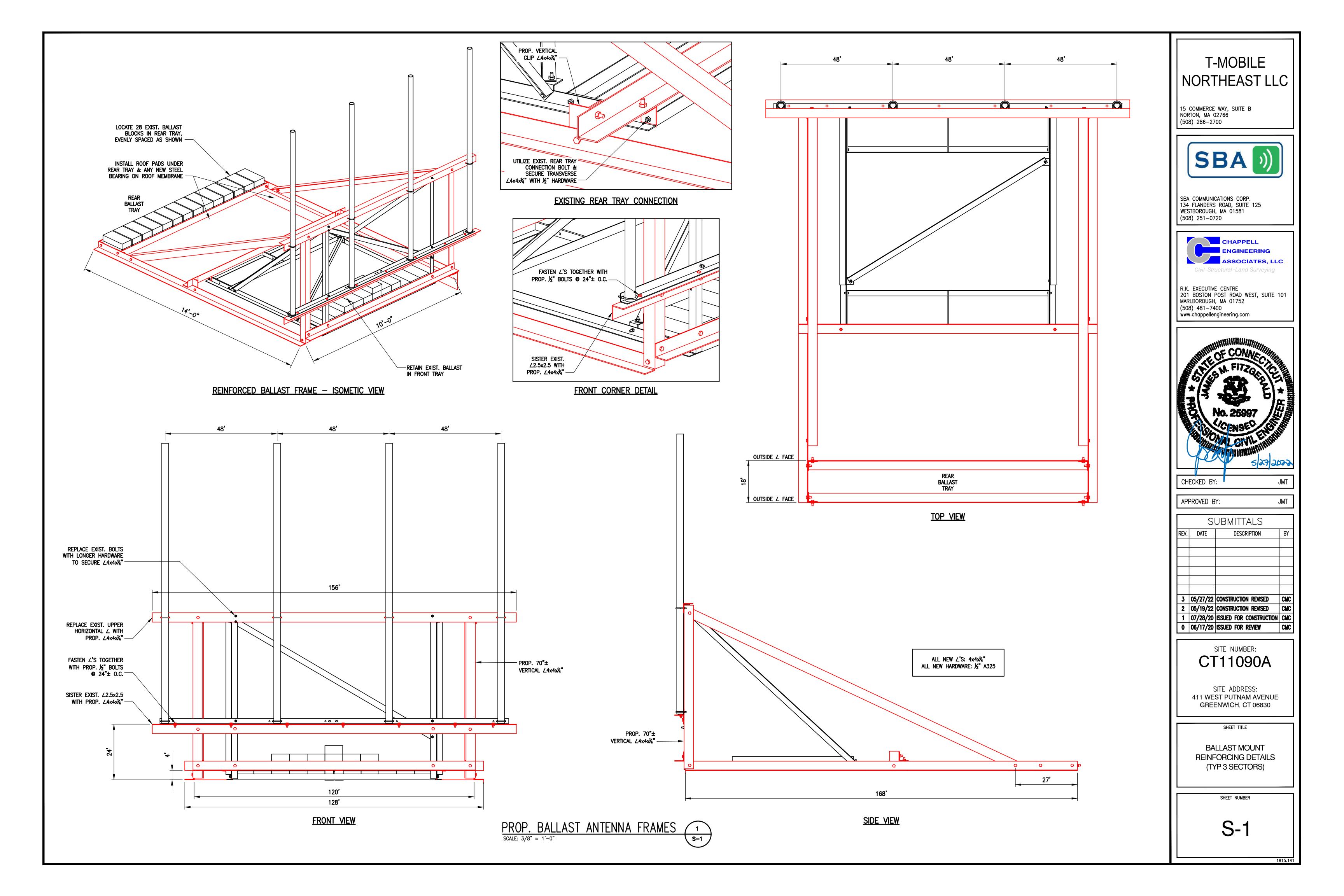
SHEET TITLE

ANTENNA & FEEDLINE CHARTS

SHEET NUMBER

A-6

815.1**4**1





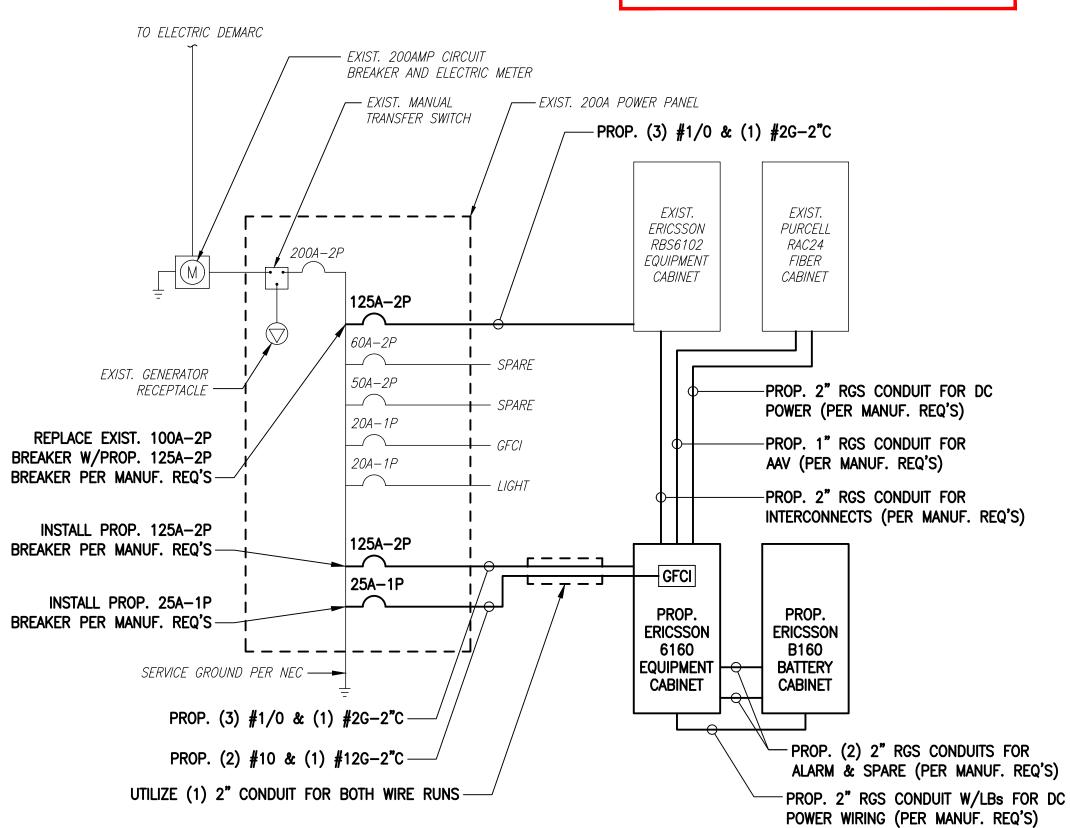


EXISTING POWER PANEL PHOTOS

SCALE: NOT TO SCALE

1
E-1

SCALE: NOT TO SCALE



T-MOBILE MUST REPLACE THEIR EXISTING

SUBMETER AND PROVIDE MONTHLY READING

ANDREW UGBKIT2

E-1

SCALE: NOT TO SCALE

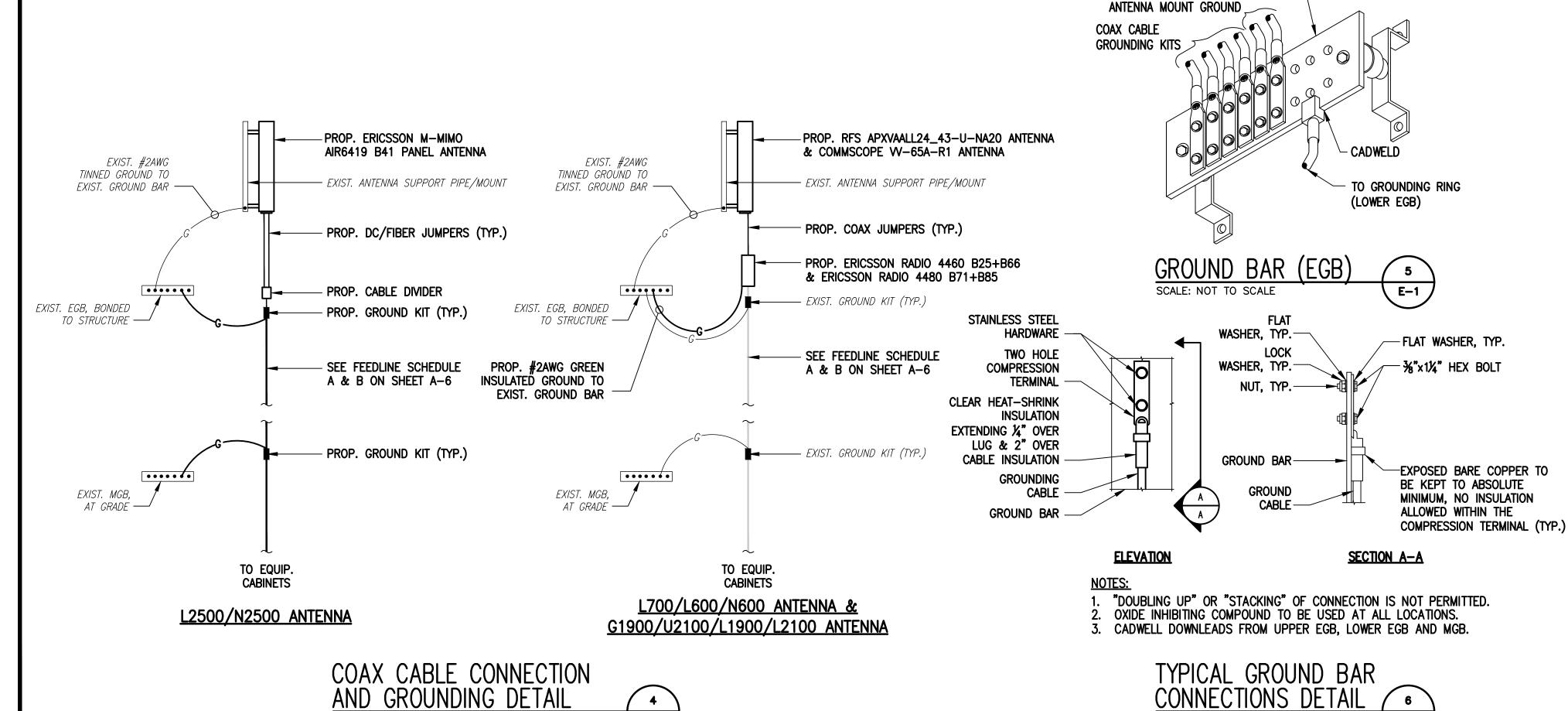
SUBMETER WITH A REMOTE READABLE

TO SBA MANAGEMENT SITES.

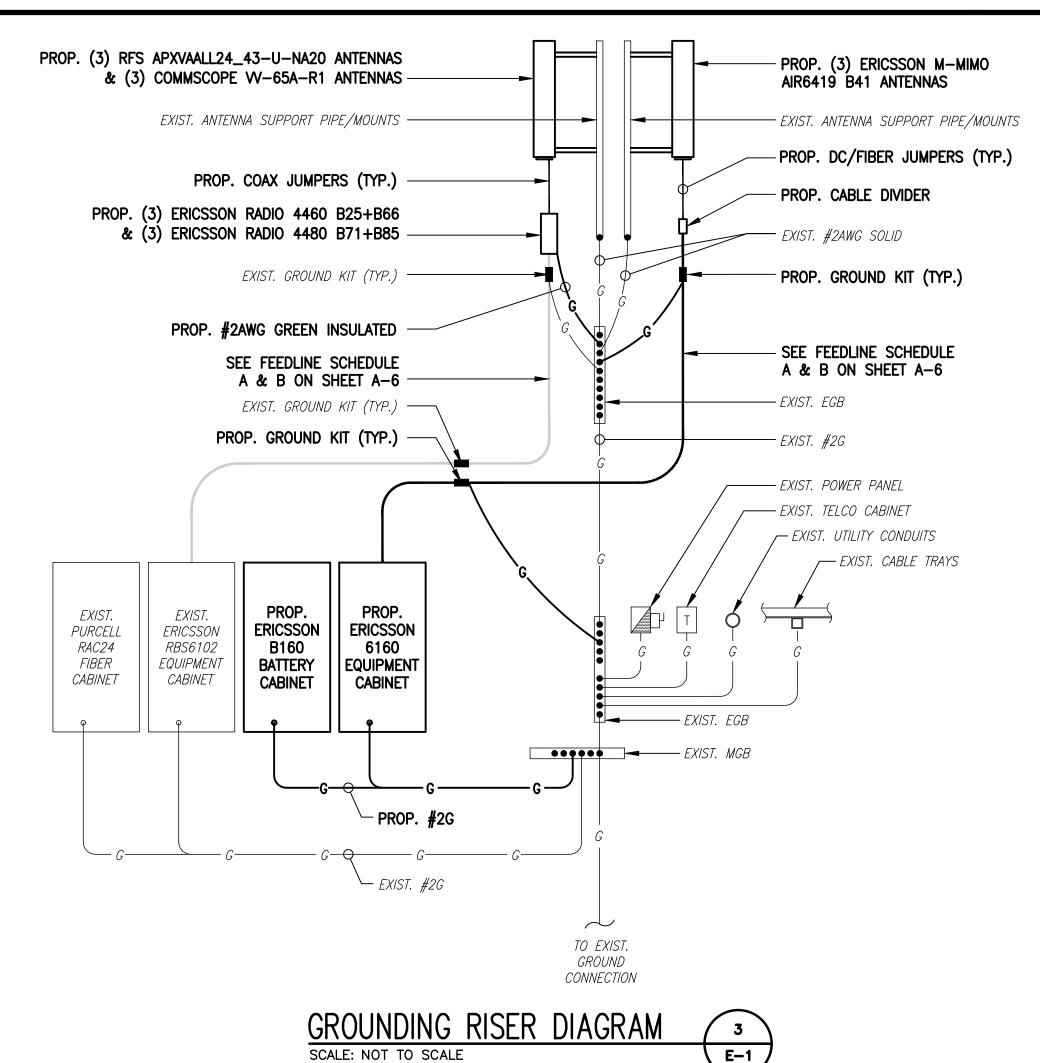
ONE LINE DIAGRAM

SCALE: NOT TO SCALE

E-1



E-1



ELECTRICAL AND GROUNDING NOTES

- 1. ALL ELECTRICAL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE (NEC) AS WELL AS APPLICABLE STATE
- 2. ALL ELECTRICAL ITEMS SHALL BE U.L. APPROVED OR LISTED AND PROCURED PER SPECIFICATION REQUIREMENTS.
- 3. THE ELECTRICAL WORK INCLUDES ALL LABOR AND MATERIAL DESCRIBED BY DRAWINGS AND SPECIFICATION INCLUDING INCIDENTAL WORK TO PROVIDE COMPLETE OPERATING AND APPROVED ELECTRICAL SYSTEM.
- 4. GENERAL CONTRACTOR SHALL PAY FEES FOR PERMITS, AND IS RESPONSIBLE FOR OBTAINING SAID PERMITS AND COORDINATION OF
- 5. ELECTRICAL AND TELCO WIRING OUTSIDE A BUILDING AND EXPOSED TO WEATHER SHALL BE IN WATER TIGHT GALVANIZED RIGID STEEL CONDUITS OR SCHEDULE 80 PVC (AS PERMITTED BY CODE) AND WHERE REQUIRED IN LIQUID TIGHT FLEXIBLE METAL OR NONMETALLIC CONDUITS.
- 6. BURIED CONDUIT SHALL BE SCHEDULE 40 PVC.
- 7. ELECTRICAL WIRING SHALL BE COPPER WITH TYPE XHHW, THWN, OR THININSULATION.
- 8. RUN ELECTRICAL CONDUIT OR CABLE BETWEEN ELECTRICAL UTILITY DEMARCATION POINT AND PROJECT OWNER CELL SITE PPC AS INDICATED ON THIS DRAWING. PROVIDE FULL LENGTH PULL ROPE. COORDINATE INSTALLATION WITH UTILITY COMPANY.
- 9. RUN TELCO CONDUIT OR CABLE BETWEEN TELEPHONE UTILITY DEMARCATION POINT AND PROJECT OWNER CELL SITE TELCO CABINET AND BTS CABINET AS INDICATED ON THIS DRAWING PROVIDE FULL LENGTH PULL ROPE IN INSTALLED TELCO CONDUIT. PROVIDE GREENLEE CONDUIT

SOLID TINNED BARE COPPER WIRE FOR BELOW GRADE GROUNDING AS INDICATED ON THE DRAWING.

- 10. WHERE CONDUIT BETWEEN BTS AND PROJECT OWNER CELL SITE PPC AND BETWEEN BTS AND PROJECT OWNER CELL SITE TELCO SERVICE CABINET ARE UNDERGROUND USE PVC, SCHEDULE 40 CONDUIT. ABOVE THE GROUND PORTION OF THESE CONDUITS SHALL BE PVC CONDUIT.
- 11. ALL EQUIPMENT LOCATED OUTSIDE SHALL HAVE NEMA 3R ENCLOSURE.
- 12. PPC SUPPLIED BY PROJECT OWNER.

RECORD RESULTS FOR PROJECT CLOSE OUT.

MEASURING TAPE AT EACH END.

- 13. GROUNDING SHALL COMPLY WITH NEC ART. 250. ADDITIONALLY, GROUNDING, BONDING AND LIGHTNING PROTECTION SHALL BE DONE IN ACCORDANCE WITH "T-MOBILE BTS SITE GROUNDING STANDARDS".
- 14. GROUND COAXIAL CABLE SHIELDS MINIMUM AT BOTH ENDS USING MANUFACTURERS COAX CABLE GROUNDING KITS SUPPLIED BY PROJECT
- 15. USE #6 COPPER STRANDED WIRE WITH GREEN COLOR INSULATION FOR ABOVE GRADE GROUNDING (UNLESS OTHERWISE SPECIFIED) AND #2
- 16. ALL GROUND CONNECTIONS TO BE BURNDY HYGROUND COMPRESSION TYPE CONNECTORS OR CADWELD EXOTHERMIC WELD. DO NOT ALLOW BARE COPPER WIRE TO BE IN CONTACT WITH GALVANIZED STEEL.
- 17. ROUTE GROUNDING CONDUCTORS ALONG THE SHORTEST AND STRAIGHTEST PATH POSSIBLE, EXCEPT AS OTHERWISE INDICATED. GROUNDING LEADS SHOULD NEVER BE BENT AT RIGHT ANGLE. ALWAYS MAKE AT LEAST 12" RADIUS BENDS. #6 WIRE CAN BE BENT AT 6" RADIUS WHEN
- 18. CONNECTIONS TO GROUND BARS SHALL BE MADE WITH TWO HOLE COMPRESSION TYPE COPPER LUGS. APPLY OXIDE INHIBITING COMPOUND TO ALL LOCATIONS.

NECESSARY. BOND ANY METAL OBJECTS WITHIN 6 FEET OF PROJECT OWNER EQUIPMENT OR CABINET TO MASTER GROUND BAR OR GROUNDING

- 19. APPLY OXIDE INHIBITING COMPOUND TO ALL COMPRESSION TYPE GROUND CONNECTIONS.
- 20. CONTRACTOR SHALL PROVIDE AND INSTALL OMNI DIRECTIONAL ELECTRONIC MARKER SYSTEM (EMS) BALLS OVER EACH GROUND ROD AND BONDING POINT BETWEEN EXIST. TOWER/ MONOPOLE GROUNDING RING AND EQUIPMENT GROUNDING RING.
- 21. CONTRACTOR SHALL TEST COMPLETED GROUND SYSTEM AND RECORD RESULTS FOR PROJECT CLOSE—OUT DOCUMENTATION. 5 OHMNS MINIMUM
- RESISTANCE REQUIRED.

 22. CONTRACTOR SHALL CONDUCT ANTENNA, COAX, AND LNA RETURN-LOSS AND DISTANCE— TO-FAULT MEASUREMENTS (SWEEP TESTS) AND

T-MOBILE NORTHEAST LLC

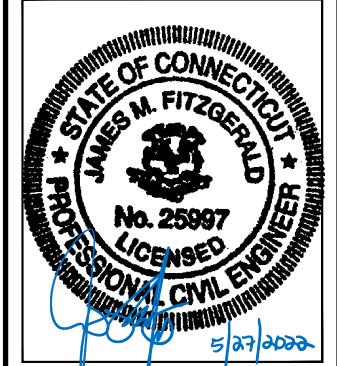
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MARLBOROUGH, MA 01752
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CHECKED BY: JMT

APPROVED BY:

SUBMITTALS

REV. DATE DESCRIPTION BY

3 05/27/22 CONSTRUCTION REVISED CMC
2 05/19/22 CONSTRUCTION REVISED CMC
1 07/28/20 ISSUED FOR CONSTRUCTION CMC

SITE NUMBER: CT11090A

0 | 06/17/20 | ISSUED FOR REVIEW

SITE ADDRESS: 411 WEST PUTNAM AVENUE GREENWICH, CT 06830

SHEET TITLE

ELECTRIC & GROUNDING DETAILS

SHEET NUMBER

E-1

1815

Exhibit D

Structural Analysis Report



15 Commerce Way Suite B Norton, MA 02766

STRUCTURAL ANALYSIS CT11090A — GREENWICH / PUTNAM AVE 2



Address:

411 WEST PUTNAM AVENUE

GREENWICH, CT 06830

Date:

JUNE 02, 2022



Civil · Structural · Land Surveying

June 02, 2022

·T···Mobile·

15 Commerce Way Suite B Norton, MA 02766

Structural Analysis of Antenna and Equipment Loads

RE:	
Site Number	CT11090A
Site Name	Greenwich / Putnam Ave 2
Site Address	411 West Putnam Avenue, Greenwich, CT 06830

To whom it may concern:

Chappell Engineering Associates, LLC has performed a structural analysis of the existing roof mounted ballast antenna frames at the above-referenced location. Based upon the site walk completed on 06-12-2020, the existing 3-sector site consists of a single elevated steel frame with equipment cabinets and three (3) roof mounted ballast antenna frames.

T-Mobile currently proposes to install one (1) Ericsson B160 Battery Cabinet and one (1) Ericsson 6160 Equipment Cabinet on the existing elevated steel equipment frame. The proposed cabinets will be located in the space reserved for future equipment as indicated in the table below. The total weight of the equipment cabinets being installed is 2,451lbs. The net change (-549lbs.) is a net decrease in the overall load to the frame as compared to the original (existing) design condition. A sketch of the proposed changes is included in on our construction drawings, and the table below summarizes the existing and proposed configurations:

Existing Equipment	t Configuration	Proposed Equipmer	nt Configuration
Cabinet Type	Weight	Cabinet Type	Weight
PPC	150 lbs	PPC	150 lbs
Transformer	410 lbs.	Transformer	410 lbs.
Ericsson RBS 6102	1219 lbs.	Ericsson RBS 6102	1219 lbs.
Ericsson RS8000 (future)	1500 lbs.	Ericsson 6160	680 lbs.
Ericsson RS8000 (future)	1500 lbs.	Ericsson B160	1771 lbs.
Total	4779 lbs.		4230 lbs.

Additionally, T-Mobile proposes to install three (3) total 2500 MHz antennas, three (3) total 600/700MHz antennas, three (3) total 1900MHz antennas. Ancillary equipment serving to supplement the proposed antennas will include three (3) total Ericsson 4460 B25+B66 remote radios and three (3) total Ericsson 4480 B71+ B85 remote radios at the *alpha, beta* and *gamma* sectors to replace the existing three (3) in-service antennas and related transmitting equipment at these locations. Additionally, three (3) total DC/Hybrid cables will be run to service the proposed antenna (1 per sector, total of 3 sectors receiving the new antenna).

The existing *alpha*, *beta* and *gamma* sector antenna frames do not have the required capacity to support the proposed antennas, and will be reinforced to provide sufficient capacity to support the proposed antenna loads. The existing rear ballast will be re-located to the new larger footprint frames. Our calculations are enclosed.

Photos of the existing ballast frames and the existing antenna mounting locations are included in this report. The appropriate antenna mounting plans and details have been included in our drawings which are also enclosed for your convenience.

If you have any questions regarding this matter, please do not hesitate to call.

Clement J Salek, P.E.

CJS/cjs

CONNECTOR

C



Existing T-Mobile Equipment Frame



Existing T-Mobile Equipment Frame



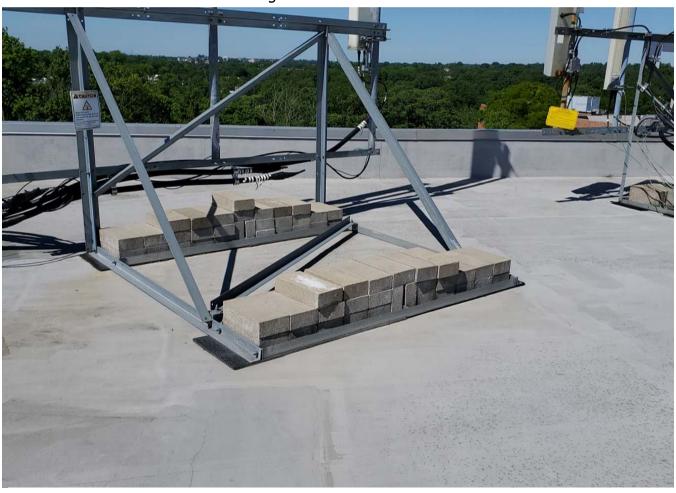
Existing T-Mobile Alpha Sector Antennas



Existing T-Mobile Alpha Sector Ballast



Existing T-Mobile Beta Sector Antennas



Existing T-Mobile Beta Sector Ballast



Existing T-Mobile Gamma Sector Antennas



Existing T-Mobile Gamma Sector Ballast

Site Name/Number: CT11090A Greenwich / Putnam Ave 2

Site Address: 411 West Putnam Avenue, Greenwich, CT 06830

CEA Job Number: 1815.141

Date: June 2, 2022



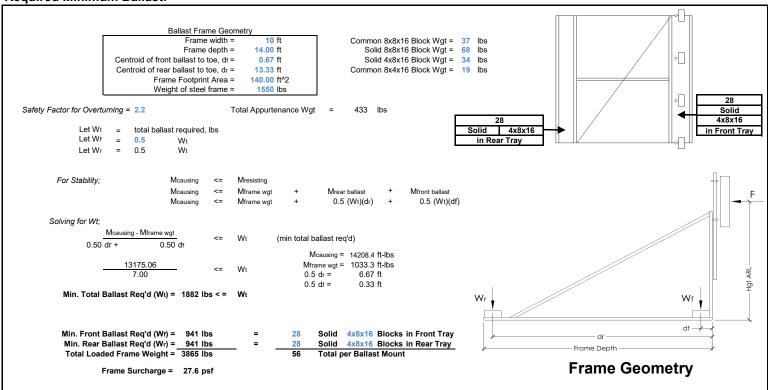
Appurtenances Attached to Ballast Frame:

	Commscope W- 65A-R1 Antenna		RFS APXVAALL24_ 43-U-NA20	Ericsson 4460 B25+B66	Ericsson 4480 B71+B85	Ericsson M-MIMO AIR6419			
Depth, d =	4.6 in	in	8.5 in	11.9 in	7.5 in	9.0 in	in		
Width, w =	12.1 in	in	24.0 in	15.1 in	15.1 in	20.9 in	in		
Height, h =	54.7 in	in	96.0 in	17.0 in	19.2 in	36.3 in	in		
Height ARL =	10.6 ft	ft	8.6 ft	5 ft	5 ft	10.6 ft	ft		
Weight =	24 lbs	lbs	128 lbs	104 lbs	93 lbs	84 lbs	lbs		

Design Code: ASCE 7

Z (Above Ground Level) =	60 ft	60	ft	60	ft	60	ft	60 f	t	60 ft	60 ft		60 f	:	60	ft	60	ft	
Height of Projection Area =	4.6 ft	0.0	ft	8.0	ft	1.4	ft	1.6 f	t	3.0 ft	0.0 ft		0.0 f	:	0.0	ft	0.0	ft	
Width of Projection Area =	1.0 ft	0.0	ft	2.0	ft	1.3	ft	1.3 f	t	1.7 ft	0.0 ft		0.0 f	:	0.0	ft	0.0	ft	
Af (Projected Area of Gross) =	4.6 s.f.	0.0	s.f.	16.0	s.f.	1.8	s.f.	2.0	s.f.	5.3 s.f.	0.0 s.		0.0 s	.f.	0.0	s.f.	0.0	s.f.	
Reference Wind Velocity, V =	106 mph	106	mph	106	mph	106	mph	106 r	mph	106 mph	106 m	oh	106 n	nph	106	mph	106	mph	
Exposure =	В	В		В		В		В		В	В		В		В		В		Section 6.5.6.3
G (Gust effect factor) =	0.85	0.85		0.85		0.85		0.85		0.85	0.85	(0.85		0.85		0.85		Section 6.5.8
Cf (Force Coeficient) =	1.4	1.4		1.4		1.4		1.4		1.4	1.4		1.4		1.4		1.4		Fig 6-20 to 6-23
Kz (Exposure Coefficients) =	0.85	0.85		0.85		0.85		0.85		0.85	0.85	(0.85		0.85		0.85		6.5.6.6, Table 6-3
K1 (Multiplier) =	0	0		0		0		0		0	0		0		0		0		Figure 6-2
K2 (Multiplier) =	0	0		0		0		0		0	0		0		0		0		Figure 6-2
K3 (Multiplier) =	0	0		0		0		0		0	0		0		0		0		Figure 6-2
Kzt (Topographic Factor) : (1+K1*K2*K3)^2 =	1	1		1		1		1		1	1		1		1		1		Section 6.5.7.2
Kd =	0.85	0.85		0.85		0.85		0.85		0.85	0.85	().85		0.85		0.85		Table 6-4
I (Importance Factor) =	1	1		1		1		1		1	1		1		1		1		Table 6-2
$q_z = .00256*K_z*K_zt*K_d*V^2*I (psf) =$		20.8	psf	20.8	psf	20.8	psf	20.8	osf	20.8 psf	20.8 ps	f 2	20.8 p	sf	20.8	psf	20.8	psf	psf, Section 6.5.10
Reference Wind Pressure, p =	24.7 psf	24.7	psf	24.7	psf	24.7	psf	24.7	osf	24.7 psf	24.7 ps	f 2	24.7 p	sf	24.7	psf	24.7	psf	

Required Minimum Ballast:



GREENWICH/PUTNAM AVE 2

411 WEST PUTNAM AVENUE GREENWICH, CT 06830 FAIRFIFI D COUNTY

SITE NO.: CT11090A

SITE TYPE: ROOFTOP

RF DESIGN GUIDELINE: 67E5A998E HYBRID

SCOPE OF WORK

- REMOVE:

 9 ANTENNAS

 6 TMAS

 18 COAX CABLES
- 1 100A-2P BREAKER
- INSTALL:

 9 ANTENNAS
 6 RADIOS
 3 HYBRID CABLES 1 6160 CABINET 1 B160 CABINET
- 1 SLACKBOX 2 125A-2P BREAKERS

SITE NOTES

- THIS IS AN UNMANNED AND RESTRICTED ACCESS TELECOMMUNICATION FACILITY, AND IS NOT FOR HUMAN HABITATION. IT WILL BE USED FOR THE TRANSMISSION OF RADIO SIGNAL FOR THE PURPOSE OF PROVIDING PUBLIC CELLULAR SERVICE.

 ADA COMPLIANCE NOT REQUIRED.
- POTABLE WATER OR SANITARY SERVICE IS NOT REQUIRED.
- NO OUTDOOR STORAGE OR ANY SOLID WASTE RECEPTACLES REQUIRED.
- CONTRACTOR SHALL VERIFY ALL PLANS, EXISTING DIMENSIONS, AND CONDITIONS ON JOB SITE. CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ARCHITECT/ENGINEER IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK. FAILURE TO NOTIFY THE ARCHITECT/ENGINEER PLACE THE RESPONSIBILITY ON THE CONTRACTOR TO CORRECT THE DISCREPANCIES AT THE CONTRACTOR'S EXPENSE.
- NEW CONSTRUCTION WILL CONFORM TO ALL APPLICABLE CODES AND ORDINANCES. BUILDING CODE: 2018 CONNECTICUT STATE BUILDING CODE ELECTRICAL CODE: 2017 NATIONAL ELECTRICAL CODE
- STRUCTURAL CODE: TIA/EIA-222-G STRUCTURAL STANDARDS FOR ANTENNA SUPPORTING

SHEET INDEX

GENERAL NOTES

PPC DISCONNECT: UNRESTRICTED

MAIN CIRCUIT D/C: UNRESTRICTED

APPROVALS

CONSTRUCTION:

RF ENGINEERING:

SECTOR A:

SECTOR B:

SECTOR C:

SECTOR D.

RADIO CABINETS:

NIU/T DEMARC:

OTHER/SPECIAL

GPS / LMITE

PROJECT MANAGER:

DATE:

DATE:

DATE:

T-MOBILE TECHNICIAN SITE SAFETY NOTES

SPECIAL RESTRICTIONS

ACCESS BY CERTIFIED CLIMBER ACCESS BY CERTIFIED CLIMBER

ACCESS BY CERTIFIED CLIMBER

ACCESS BY CERTIFIED CLIMBER

LINRESTRICTED

UNRESTRICTED

UNRESTRICTED

THE CONTRACTOR SHALL ONE ALL NOTICES AND COMPLY WITH ALL LINKS, CORONANCES, RULES, REQULATIONS AND LINKTUL CORCES OF SEPERATURES, AND LINKTUL CORCES OF SEPERATURES, AND LOCAL AND STATE LARSESCITIONAL CORES BEARING ON THE PERFORMANCE OF THE MORE. THE MORE PROPERTIES ON THE PROJECT AND THE MORPHLY SENTILLED SHALL BE IN SIRCY ACCORDINATES AND THE ALL PHYLICIDES CORES, RECOLUTIONS, AND ORDHANNETS.

NONE

- THE ARCHITECT/ENGINEER HAVE MADE EVERY EFFORT TO SET FORTH IN THE CONSTRUCTION AND CONTINCT GOADWITS THE COMPLETE SOFE OF WORK, THE CONTINCTION BODING THE 40.08 IN INDESTRUEESS CULTIONED THAT MINOR CHASSIONS OR ERRORS IN THE EDRAMINES AND OR SEPECIATIONS SHALL NOT EXCUSE SHIP CONTINCTION FROM COMPLETIONS THAT FOR FOR COMPLETION THE PROJECT AND IMPROVEMENTS IN ACCORDANCE WITH THE RITERT OF THESE DOCUMENTS.
- THE CONTRACTOR OR BIDDER SHALL BEAR THE RESPONSIBILITY OF NOTIFIES (M MERTINS) THE OMMERONT REPRESENTATIVE OF ANY CONFLICTS, ERRORS, OR OMSSIONS FROM TO THE SUBMISSION OF CONTRACTOR'S PROPOSAL OR PERFORMANCE OF MORE. IN THE EVENT OF DISSEPANCES THE CONTRACTOR SHALL PRICE THE MORE COSTLY OF EXTERNAT MORE, UNLESS DIRECTED IN MERTING OTHERWISE.
- THE SCOPE OF WORK SHALL NILLDE FURNISHING ALL MATERIALS, EQUIPMENT, LABOR AND ALL OTHER MATERIALS AND LABOR DEEMED NECESSIRY TO COMPLETE THE WORK/PROJECT AS DESCRIBED HERBEN.
- THE CONTRACTOR SHALL WISIT THE JOB SITE PRIOR TO THE SUBMISSION OF BIDS OR PERFORMING WORK TO FAMILIARZE HIMSELF WITH THE FELL CONDITIONS AND TO VERIFY THAT THE PROJECT OWN BE CONSTRUCTED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
- THE CONTRACTOR SHALL OBTAIN AUTHORIZATION TO PROCEED WITH CONSTRUCTION PRIOR TO STARTING WORK ON ANY ITEM NOT CLEARLY THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS
- ACCORDING TO THE MANUFACTURER'S/VENDOR'S SPECIFICATIONS
 UNLESS NOTED OTHERWISE OR WHERE LOCAL CODES OR ORDINANCES
 TAKE PRECEDENCE. THE CONTRACTOR SHALL PROVIDE A FULL SET OF CONSTRUCTION DOCUMENTS AT THE SITE UPDATED WITH THE LATEST REVISIONS AND ADDENOUAS OF CLAREFICATIONS AWALABLE FOR THE USE BY ALL PERSONNEL INVOLVED WITH THE PROJECT.
- THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE PROJECT DESCREED HERBIN. THE CONTRACTOR SHALL BE SOLELY RESPONSELE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNOURS, SEQUENCES AND PROCEDURES AND FOR COORDINATING ALL PORTIONS OF THE WORK UNDER THE CONTRACT.
- THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL NECESSARY CONSTRUCTION CONTROL SURVEYS, ESTABLISHING AND MAINTAINING ALL LINES AND GRADES REQUIRED TO CONSTRUCT ALL IMPROVEMENTS AS SHOWN HERBIN.
- THE CONTRACTOR SMALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS AND INSPECTIONS WHICH MAY BE REQUIRED FOR THE WORK BY THE ARCHITECT/ENGINEER, THE STATE, COUNTY OR LOCAL COVERNMENT AUTHORITY.
- THE CONTRACTOR SHALL MAKE NECESSARY PROVISIONS TO PROTECT EXISTING IMPROVEMENTS, EASEMENTS, PAVING, CURBING, ETC. DURING CONSTRUCTION. UPON COMPLETION OF WORK, THE CONTRACTOR

SHALL REPAIR ANY DAMAGE THAT MAY HAVE OCCURRED DUE TO CONSTRUCTION ON OR ABOUT THE PROPERTY.

ZONING/SITE ACQ.:

OPERATIONS:

TOWER OWNER:

DATE:

DATE:

DATE:

- 13. THE CONTRACTOR SHALL KEEP THE GENERAL WORK AREA CLEAN AND HAZARD FREE DURING CONSTRUCTION AND DISPOSE OF ALL DRIT, DEBRIS, RUBBISH AND REMOVE EQUIPMENT NOT SPECIFIED AS REMAINING ON THE PROPERTY PROMESTS SHALL BLET IN CLEAN CONDITION AND FREE FROM PAINT SPOTS, DUST, OR SMUGGES OF ANY MATURE. THE CONTRACTOR SHALL COMPLY WITH ALL OSHA REQUIREMENTS AS THEY APPLY TO THIS PROJECT.
- 15. THE CONTRACTOR SHALL NOTIFY THE PROJECT OWNER'S REPRESENTANCE WHERE A CONFLICT OCCURS ON ANY OF THE CONTRACTOR IS NOT TO GREEN AMERICA, OR CONSTRUCT ANY PROFICE OF THE WORK HALL S. IN CONFLICT IN INC. CONFLICT ANY PROFILE OF THE WORK HALL S. IN CONFLICT IN INC. CONFLICT OF SECURIS
- THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, ELEVATIONS, PROPERTY LINES, ETC. ON THE JOB.
- ALL UNDERGROUND UTILITY INFORMATION WAS DETERMINED FROM SURFACE INVESTIGATIONS AND EXISTING PLANS OF RECORD. THE CONTRACTOR SHALL LOCATE ALL UNDERGROUND UTILITIES IN THE FIELD PRIOR TO ANY SITE WORK.

AT LEAST 72 HOURS PRIOR TO DIGGING, THE CONTRACTOR IS REQUIRED TO CALL DIG SAFE AT 811



VICINITY MAP SCALE: 1" = 1000'-0"

DIRECTIONS

MERGE ONTO 1-495 NORTH TOWER MANSFIELD/MARLBORO. TAKE EXIT 33B TO MERGE ONTO I-95 SOUTH TOWARD PROVIDENCE RI ENTER RHODE ISLAND. KEEP LEFT TO CONTINUE TOWARD I-95 SOUTH, CONTINUE ONTO I-95 SOUTH, KEEP RIGHT AT FORK TO STAY ON I-95 SOUTH. SETER CONNECTICUT. KEEP LEFT TO STAY ON I-95 SOUTH. KEEP RIGHT TO STAY ON I-95 SOUTH, KEEP LEFT TO STAY ON 1-95 SOUTH (7x). TAKE EXIT 3 FOR ARCH STREET TOWARD GREENWICH, USE MIDDLE LANE TO TURN RIGHT ONTO ARCH STREET. TURN LEFT ONTO RAUROAD AVENUE. CONTINUE ONTO OLD FIELD POINT ROAD, TURN RIGHT ONTO LINKISSTON PLACE.
LINKISTION PLACE TURNS LEFT & BECOMES US-1 SOUTH, SITE IS LOCATED ON THE RIGHT

SHEET DESCRIPTION T-1 TITLE SHEET 3 GN-1 GENERAL NOTES A-1 ROOF PLAN A-2 EQUIPMENT PLANS A=3 RUILDING FLEVATION 3 A-4 ANTENNA PLANS 3 A-5 SITE DETAILS A-6 ANTENNA & FEEDLINE CHARTS 3 BALLAST MOUNT REINFORCING DETAILS E-1 ELECTRIC & GROUNDING DETAILS

CONTRACTOR SHALL VERIFY ALL PLANS AND EXISTING DIMENSIONS AND CONDITIONS ON THE JOB SITE AND SHALL IMMEDIATELY NOTIFY THE PROJECT OWNER'S REPRESENTATIVE IN WRITING OF DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR SAME

DO NOT SCALE DRAWINGS

PROJECT SUMMARY

SITE NUMBER: CT11090A SITE NAME: GREENWICH/PUTNAM AVE 2 SBA SITE NUMBER: CT95623-M SBA SITE NAME: GREENWICH (PUTNAM) SITE ADDRESS: 411 WEST PUTNAM AVENUE

GREENWICH, CT 06830 411 PUTNAM AVE. LLC PROPERTY OWNER: 411 WEST PUTNAM AVENUE

TOWER OWNER: MCM ACQUISITION 2017, LLC

8501 CONGRESS AVENUE BOCA RATON, FL 33487 PHONE: 561-226-9523 COUNTY: FAIRFIFI D ZONING DISTRICT: GB (GENERAL BUSINESS)

STRUCTURE TYPE: ROOFTOP STRUCTURE HEIGHT: APPLICANT: T-MOBILE NORTHEAST LLC

15 COMMERCE WAY, SUITE B NORTON MA 02766 CHAPPELL ENGINEERING ASSOCIATES, LLC.

201 BOSTON POST ROAD WEST, SUITE 101 MARLBOROUGH, MA 01752 STRUCTURAL ENGINEER:

CHAPPELL ENGINEERING ASSOCIATES, LLC. 201 BOSTON POST ROAD WEST, SUITE 101 MARLBOROUGH, MA 01752

> LATITUDE: 41 021397" N41"01'17 03" LONGITUDE: -73.641289* W73*38'28.64"

SPECIAL ZONING NOTE:

SITE CONTROL POINT:

ARCHITECT

BASED ON INFORMATION PROVIDED BY T-MOBILE REGULATORY COMPLIANCE PROFESSIONALS AND LEGAL COUNSEL, THIS TELECOMMUNICATIONS EQUIPMENT DEPLOYMENT IS CONSIDERED AN <u>ELIGIBLE FACILITY</u> UNDER THE MIDDLE CLASS TAX RELIEF AND JOB CREATION ACT OF 2012, 47 USC 1455(A), SECTION 6409(A), AND IS SUBJECT TO AN FLIGIBLE FACILITY REQUEST, EXPEDITED REVIEW, AND LIMITED/PARTIAL ZONING PRE-EMPTION FOR LOCAL DISCRETIONARY PERMITS (VARIANCE, SPECIAL PERMIT, SITE PLAN REVIEW, OR ADMINISTRATIVE REVIEW)

T-MOBILE NORTHEAST LLC

15 COMMERCE WAY, SUITE B NORTON, MA 02766 (508) 286-2700



SBA COMMUNICATIONS CORP. 134 FLANDERS ROAD, SUITE 125 WESTBOROUGH, MA 01581



R.K. EXECUTIVE CENTRE 201 BOSTON POST ROAD WEST, SUITE 101 MARLBOROUGH, MA 01752 (508) 481-7400



CHECKED BY:

JMT

JMT APPROVED BY

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		CONSTRUCTION REVISED	CM				
2	05/19/22	CONSTRUCTION REVISED	CM				
1	07/28/20	ISSUED FOR CONSTRUCTION	CM				
^	00/17/00	ICCUITY TOD DEVIEW	~				

SITE NUMBER CT11090A

SITE ADDRESS: 411 WEST PUTNAM AVENUE GREENWICH, CT 06830

TITLE SHEET

T-1

GENERAL NOTES:

FOR THE PURPOSE OF CONSTRUCTION DRAWINGS, THE FOLLOWING DEFINITIONS SHALL APPLY:
CONTRACTION - GENERAL CONTRACTOR (CONSTRUCTION)
ONNETR - 1-MOBILE
COM - ORGANIAL EQUIPMENT MANUFACTURER

- PRIOR TO THE SUBMISSION OF BIDS, THE BIDDING SUBCONTRACTOR SHALL WIST THE CELL SITE TO FAMILIARZE WITH THE EXISTING CONDITIONS AND TO CONFIRM THAT THE WORK CAN BE ACCOMPUSHED AS SHOWN ON THE CONSTRUCTION DRAWNIGS. ANY DISCREPANCY FOUND SHALL BE BROUGHT TO THE ATTENTION OF CONTRACTOR.
- 3. ALL MATERIALS FURNISHED AND INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS, AND DEDIMACES. SUBCONTRACTOR SHALL ISSUE ALL APPROPRIATE NOTICES AND COMEY. WITH ALL LAWS, ORDINANCES, RILLES, REGULATIONS, AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY REGARDING THE PERFORMANCE OF THE WORK.
- 4. ALL WORK CARRIED OUT SHALL COMPLY WITH ALL APPLICABLE MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS AND LOCAL, STATE AND FEDERAL JURISDICTIONAL CODES, ORDINANCES AND APPLICABLE REGULATIONS.
- 5. DRAWINGS PROVIDED HERE ARE NOT TO BE SCALED AND ARE INTENDED TO SHOW OUTLINE ONLY.
- UNLESS NOTED OTHERWISE, THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT, APPURTENANCES, AND LABOR NECESSARY TO COMPLETE ALL INSTALLATIONS AS INDICATED ON THE DRAWINGS.
- 7. THE SUBCONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY STATED OTHERWISE.
- 8. IF THE SPECIFIED EQUIPMENT CANNOT BE INSTALLED AS SHOWN ON THESE DRAWINGS, THE SUBCONTRACTOR SHALL PROPOSE AN ALTERNATIVE INSTALLATION FOR APPROVAL BY THE CONTRACTOR.
- SUBCONTRACTOR SHALL DETERMINE ACTUAL ROUTING OF CONDUIT, POWER, TI CABLES AND GROUNDING CABLES AS SHOWN DO THE POWER, GROUNDING AND TELCO PLAN DRAWING. SUBCONTRACTOR SHALL ONLY EXISTING TRAYS AND/OR SHALL ADD NEW TRAYS AS NECESSARY SUBCONTRACTOR SHALL CONFIRM THE
- ACTUAL ROUTING WITH THE CONTRACTOR AND/OR LANDLORD PRIOR TO CONSTRUCTION. 10. THE SUBCONTRACTOR SHALL PROTECT EXISTING IMPROVEMENTS, PAVEMENTS, CURBS, LANDSCAPING AND STRUCTURES. ANY DAMAGED PART SHALL BE REPAIRED AT SUBCONTRACTOR'S EXPENSE TO THE SATISFACTION OF THE OWNER.
- SUBCONTRACTOR SHALL LEGALLY AND PROPERLY DISPOSE OF ALL SCRAP MATERIALS SUCH AS COAXIAL CABLES AND OTHER ITEMS REMOVED FROM THE EXISTING FACILITY.
- 12. SUBCONTRACTOR SHALL LEAVE PREMISES IN CLEAN CONDITION AND RETURN DISTURBED AREAS TO ORIGINAL CONDITIONS
- 13. THE SUBCONTRACTOR SHALL SUPERVISE AND DIRECT THE PROJECT DESCRIBED HEREIN. THE SUBCONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES FOR COORDINATION ALL PORTIONS OF THE WORK LUMBER THE CONTRACT.
- 14. SUBCONTRACTOR SHALL NOTIFY CHAPPELL ENGINEERING ASSOCIATES, LLC 48 HOURS IN ADVANCE OF POURING CONCRETE OR BACKFILLING TREDICIES, SEALING ROOF AND WALL PENETRATIONS AND POST DOWNS, FINISHING NEW WALLS OR FINAL ELECTRICAL CONNECTIONS FOR ROMILERING REVIEW.
- 15. CONSTRUCTION SHALL COMPLY WITH ALL T-MOBILE STANDARDS AND SPECIFICATIONS.
- 16. SUBCONTRACTOR SHALL VERIEY ALL EXISTING DIMENSIONS AND CONDITIONS PRIOR TO COMMENCING ANY WORK ALL DIMENSIONS OF DISSTING CONSTRUCTION SHOWN ON THE DRAWNOSS MUST BE VERIETED. SUBCONTRACTOR SHALL NOTIFY THE CONTRACTOR OF ANY DISCREPANCIES PRIOR TO GROPEING MATERIAL OR PROCEEDING WITH CONSTRUCTION.
- 18. IF THE EXISTING CELL STE IS ACTIVE, ALL SAFETY PRECAUTIONS MUST BE TAKEN WHEN WORKING AROUND HIGH LEVELS OF ELECTROMAGNETIC PROVATION. EQUIPMENT SHOULD BE SHATDOWN PRIOR TO PEPFORMING ANY WORK THAT COLUL SEPOS THE WORKER TO DAMEER PEPSONAL RF EXPOSURE MONITORS ARE TO BE WORN TO ALERT OF ANY DANGEROUS EXPOSURE LEVELS.

- 1. THE SUBCONTRACTOR SHALL CONTACT UTILITY LOCATING SERVICES PRIOR TO THE START OF CONSTRUCTION.
- 2. ALL EXISTING ACTIVE SEWER, WATER, GAS, ELECTRIC, AND OTHER UTILITIES WHERE ENCOUNTERED IN THE WORK, SHALL BE PROTECTED AT ALL TIME, AND WHERE REQUISED FOR THE PROPER DECURION OF THE WORK, SHALL BE RELOCATED AS DECRETED BY ENGINEERS. EXPERSE CAUTION SHOULD BE USED BY THE SUBCONTRACTOR WHEN EXCHANDED OF PRILING PRESS AROUND OR NEAR UTILITIES. SUBCONTRACTOR SHALL PROVIDE SAFETY TRAINING FOR THE WORKING CHEET. THIS WILL INCLUDE OF THE THE PROPERTY OF THE WORKING CHEET. THIS WILL INCLUDE OF THE THE PROPERTY OF THE WORKING CHEET. THIS WILL INCLUDE THE THE PROPERTY OF THE WORKING CHEET. THIS WILL INCLUDE THE THE PROPERTY OF THE WORKING CHEET. THIS WILL INCLUDE THE THE PROPERTY OF THE WORKING CHEET. THIS WILL INCLUDE THE PROPERTY OF THE WORKING CHEET. THIS WILL INCLUDE THE PROPERTY OF THE WORKING CHEET. THIS WILL INCLUDE THE WORKING CHEET. THE WORKING CHEET. THE WORKING CHEET.
- 3. ALL SITE WORK SHALL BE AS INDICATED ON THE DRAWINGS AND PROJECT SPECIFICATIONS.
- 4. IF NECESSARY, RUBBISH, STUMPS, DEBRIS, STICKS, STONES AND OTHER REFUSE SHALL BE REMOVED FROM THE SITE AND DISPOSED OF LEGALLY.
- 5. THE SITE SHALL BE GRADED TO CAUSE SURFACE WATER TO FLOW AWAY FROM THE BTS EQUIPMENT AND TOWER AREAS.
- 6. NO FILL OR EMBANKMENT MATERIAL SHALL BE PLACED ON FROZEN GROUND. FROZEN MATERIALS, SNOW OR ICE SHALL NOT BE PLACED IN ANY FILL OR EMBANKMENT.
- 7. THE SUB GRADE SHALL BE COMPACTED AND BROUGHT TO A SMOOTH UNIFORM GRADE PRIOR TO FINISHED SURFACE APPLICATION.
- 8. ALL EXISTING INACTIVE SEWER, WATER, GAS, ELECTRIC AND OTHER UTILITIES, WHICH INTERFERE WITH THE EXECUTION OF THE WORK, SHALL BE REMOVED AND/OR OFED, PLUCKED OR OTHERWISE DISCONTINUED AT POINTS WHICH WILL WITHEREFERE WITH THE DESCUTION OF THE WORK, SUBJECT TO THE APPROVAL OF ENGINEERING, OWNER AND/OR LOCAL UTILITIES.
- 9. THE AREAS OF THE OWNERS PROPERTY DISTURBED BY THE WORK AND NOT CORRED BY THE TOWNER, DEVELOPMENT OR DANKINKY, SHALL BE GRADED TO A UNIFORM SLOPE AND STABILIZED TO PREVENT BROSON AS SPECIFIED IN THE PROJECT SECURIORIS
- 10. SUBCONTRACTOR SHALL MINIMIZE DISTURBANCE TO EXISTING SITE DURING CONSTRUCTION. EROSION CONTROL MEASURES, IF REQUIRED DURING CONSTRUCTION, SHALL BE IN CONFORMANCE WITH THE LOCAL GUIDELINES FOR EROSION AND SEDIMENT CONTROL.
- 11. THE SUBCONTRACTOR SHALL PROVIDE SITE SIGNAGE IN ACCORDANCE WITH THE T-MOBILE SPECIFICATION FOR SITE SIGNAGE.

CONCRETE AND REINFORCING STEEL NOTES:

- ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH THE ACI 301, ACI 318, ACI 336, ASTM A184, ASTM A185 AND THE DESIGN AND CONSTRUCTION SPECIFICATION FOR CAST—IN-PLACE CONCRETE.
- 2. ALL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI AT 28 DAYS, UNLESS NOTED OTHERWISE. A HIGHER STRENGTH (400PSI) MAY BE USED. ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH THE ACI 381 CODE
- 3. REINFORCING STEEL SHALL CONFORM TO ASTM A 615, GRADE 60, DEFORMED UNLESS NOTED OTHERWISE. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A 185 WELDED STEEL WIRE FABRIC UNLESS NOTED OTHERWISE. SPLICES SHALL BE CLASS "9" AND ALL HOOKS SHALL BE STANDARD, UNIO.
- 4. THE FOLLOWING MINIMUM CONCRETE COVER SHALL BE PROVIDED FOR REINFORCING STEEL UNLESS SHOWN OTHERWISE ON
- 4. THE FOLLOWING IMPRIANCE MORPHIA 3. IN CONCRETE COST AGAINST SAFIN ... 3. IN CONCRETE EXPROSED TO EARTH OR MEATHER CONCRETE EXPROSED TO EARTH OR WEATHER OR NOT CAST AGAINST THE GROUND; SLAR AND WALL ... 3, IN. ... 3, I
- 5. A CHAMFER $\frac{1}{4}$ SHALL BE PROVIDED AT ALL EXPOSED EDGES OF CONCRETE, UNO, IN ACCORDANCE WITH ACI 301 SECTION 4.2.4.
- E. RESILATION OF CONCRETE DEPAISON/REDGE ANCHES SHALL BE FER MANUFACTURES'S RESITTER RECOMMENDED.

 PROCEDURE. THE MONOR BOLT, DOING OF ROS SHALL OFFORM TO THE MANUFACTURES'S RECOMMENDATION FOR ELECTIVATE DEPTH OR AS SHAMN ON THE DRAWINGS. NO REBRE SHALL BE CUT WITHOUT PROOF CONTRACTOR APPROVAL WITH DIRELING HOLES IN CONCRETE. SPECIAL REFERENCES, REQUIRED FOR CONTRACTOR APPROVAL WHEN DIRELING HOLES IN CONCRETE. SPECIAL REFERENCES, REQUIRED TO CONTRACTOR SHALL BE REFERENCED IN ORDER TO MANUFACTURES'S MAXIMUM ALLOWAGE LONGS, ALL DEPAISON OF MEMORY SHALL BE STANLESS STELL OR HOT DIPPED GAVANZED. EXPRANSION BOLTS SHALL BE REFORDED BY SHANNON OR APPROVED EDUM.
- CONCRETE CYLINDER TIES ARE NOT REQUIRED FOR SLAB ON GRADE WHEN CONCRETE IS LESS THAN 50 CUBIC YARDS (IBC1905.6.2.3) IN THAT EVENT THE FOLLOWING RECORDS SHALL BE PROVIDED BY THE CONCRETE SUPPLIER;
- (A) RESULTS OF CONCRETE CYLINDER TEST PERFORMED AT THE SUPPLIERS PLANT.
 (B) CERTIFICATION OF MINIMUM COMPRESSIVE STRENOTH FOR THE CONCRETE GRADE SUPPLIED.
 FOR GREATER THAN 50 CUBIC YARDS THE CC SHALL PERFORM THE CONCRETE CYLINDER TEST.
- EQUIPMENT SHALL NOT BE PLACED ON NEW PADS FOR SEVEN DAYS AFTER PAD IS POURED, UNLESS IT IS VERIFIED BY CYLINDER TESTS THAT COMPRESSIVE STRENGTH HAS BEEN ATTAINED.

STRUCTURAL STEEL NOTES:

- 1. ALL STEEL WORK SHALL BE PAINTED OR CALVANZED IN ACCORDANCE WITH THE DRAWINGS AND T-MOBILE SPECIFICATIONS UNLESS OTHERWISE NOTED ON THE SITE SPECIFICATIONS UNLESS OTHERWISE NOTED ON THE SITE SPECIFIC DRAWINGS. SITED, EDSON, INSTALLATION AND BOLING SHALL BE A NO-CORDANCE WITH THE AMERICAN INSTITUTE OF STEEL
- ALL WELDING SHALL BE PERFORMED USING E70XX ELECTRODES AND WELDING SHALL CONFORM TO AISC AND AWS D1.1.WHERE FILLET WELD SIZES ARE NOT SHOWN, PROVIDE THE MINIMUM SIZE PER TABLE J2.4 IN THE AISC "MANUAL OF STEEL CONSTRUCTION", 9TH EDITION, PAINTED SURFACES SHALL BE TOUCHED UP.
- 3. BOLTED CONNECTIONS SHALL USE BEARING TYPE ASTM A325 BOLTS (X^{\bullet}_{i}) AND SHALL HAVE MINIMUM OF TWO BOLTS UNLESS NOTED OTHERWISE. ALL BOLTS SHALL BE GALVANIZED OR STAINLESS STEEL.
- 4. NON-STRUCTURAL CONNECTIONS FOR STEEL GRATING MAY USE %" DIA. ASTM A 307 BOLTS (GALV) UNLESS NOTED OTHERWISE.
- 5. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR ENGINEER REVIEW & APPROVAL ON PROJECTS REQUIRING STRUCTURAL STEEL
- 6. ALL STRUCTURAL STEEL WORK SHALL BE DONE IN ACCORDANCE WITH AISC SPECIFICATIONS

- EXCAVATE AS REQUIRED TO REMOVE VEGETATION AND TOPSOIL TO EXPOSE NATURAL SUBGRADE AND PLACE CRUSHED STONE AS REQUIRED.
- 2. COMPACTION CERTIFICATION: AN INSPECTION AND WRITTEN CERTIFICATION BY A QUALIFIED GEOTECHNICAL TECHNICIAN OR ENGINEER IS ACCEPTABLE.
- 3. AS AN ALTERNATE TO INSPECTION AND WRITTEN CERTIFICATION, THE "UNDISTURBED SOIL" BASE SHALL BE COMPACTED WITH "COMPACTON EQUIPMENT", LISTED BELOW, TO AT LEAST 90% MODIFIED PROCTOR MAXIMUM DENSITY PER ASTM D 1557 METHOD C.
- 4. COMPACTED SUBBASE SHALL BE UNIFORM AND LEVELED, PROVIDE 6" MINIMUM CRUSHED STONE OR GRAVEL COMPACTED IN 3" LIFTS ABOVE COMPACTED SOIL GRAVEL SHALL BE NATURAL OR CRUSHED WITH 100% PASSING ∯1 SIEVE.
- 5. AS AN ALTERNATE TO ITEMS 2 AND 3, THE SUBGRADE SOILS WITH 5 PASSES OR A MEDIUM STEED VERMOORY PLATE COMPACTOR (SUCH AS BOMAG BAR 30/38) OR HAND-OPERATED SINGLE DRIVE VERBATORY ROLLER (SUCH AS BOMAG BAR 35E), AND 35Y AREAS THAT ARE DISCOUNTEDED SHOULD BE REMOVED AND REPLACED WITH A WELL-GRADED GRANULAR FILL AND COMPACTED AS STATED AROYEE.

COMPACTION EQUIPMENT:

1. HAND OPERATED DOUBLE DRUN, VIBRATORY ROLLER, VIBRATORY PLATE COMPACTOR OR JUMPING JACK COMPACTOR.

1. FIELD VERIFICATION: SUBCONTRACTOR SHALL FIELD VERIFY SCOPE OF WORK, T-MOBILE ANTENNA PLATFORM LOCATION AND UTILITY TRENCHWORK.

2. COORDINATION OF WORK: SUBCONTRACTOR SHALL COORDINATE RF WORK AND PROCEDURES WITH CONTRACTOR.

SUBCONTRACTOR SHALL FURNISH AND INSTALL CABLE LADDER RACK, CABLE TRAY AND/OR ICE BRIDGE, AND CONDUIT AS REQUIRED TO SUPPORT CABLES TO THE NEW BTS LOCATION.

ELECTRICAL INSTALLATION NOTES:

- WIRING, RACEWAY, AND SUPPORT METHODS AND MATERIALS SHALL COMPLY WITH THE REQUIREMENTS OF THE NEC AND TELCORDIA.
- SUBCONTRACTOR SHALL MODIFY OR INSTALL CABLE TRAY SYSTEM AS REQUIRED TO SUPPORT RF AND TRANSPORT CABLING TO THE NEW BTS EQUIPMENT. SUBCONTRACTOR SHALL SUBMIT MODIFICATIONS TO CONTRACTOR FOR APPROVAL.
- 3. ALL CIRCUITS SHALL BE SEGREGATED AND MAINTAIN MINIMUM CABLE SEPARATION AS REQUIRED BY THE NEC AND TELCORDIA.
- 4. CABLES SHALL NOT BE ROUTED THROUGH LADDER-STYLE CABLE TRAY RUNGS.
- 5. EACH END OF EVERY POWER, GROUNDING, AND TI CONDUCTOR AND CABLE SHALL BE LABELED WITH COLOR-COOED INSULATION OR ELECTRICAL TAPE (3M BRAND, 1/2 INCH PLASTIC ELECTRICAL TAPE WITH UV PROTECTION, OR EQUAL). THE IDENTIFICATION METHOD SHALL CONFORM WITH NEC AND COSTA, AND MATCH INSTALLATION REQUIREMENTS.
- 6. POWER PHASE CONDUCTORS (I.E., HOTS) SHALL BE LABELED WITH COLOR-CODED INSULATION OR ELECTRICAL TAPE (3M BRAND, ½ INCH PLASTIC ELECTRICAL TAPE WITH UV PROTECTION, OR EQUAL), PHASE CONDUCTOR COLOR CODES SHALL CONFORM WITH THE NEC AND OSHA.
- 7. ALL ELECTRICAL COMPONENTS SHALL BE CLEARLY LABELED WITH ENGRAVED LAMACOID PLASTIC LABELS. ALL EQUIPMENT SHALL BE LABELED WITH THEIR VOLTAGE RATING, PHASE CONFIGURATION, WIRE CONFIGURATION, POWER OR AMPACTY PATING, AND BRANCH ORICUIT ID NUMBERS (I.E., PANEDADRA AND GIOLUTI ID'S).
- 9. ALL TIE WRAPS SHALL BE CUT FLUSH WITH APPROVED CUTTING TOOL TO REMOVE SHARP EDGES.
- 10. POWER, CONTROL, AND EQUIPMENT GROUND WIRING IN TUBING OR COMDUIT SHALL BE SINGLE CONDUCTOR (\sharp 34 AND OR LANGER), 600 V, OL RESISTANT THEN OR THIN-2, CLASS B STRANGED COMPEX CALLE RATED FOR 90 °C (WET AND DRY) OPERATION; LISTED OR LABELD FOR THE LOCATION AND RACEMYN SYSTEM USED, UNLESS OTHERWISS SPECIFIED.
- 11. SUPPLIMENTAL EQUIPMENT GROUND WIRMON LOCATED MODORS SHALL BE SINCE CONSUCTOR (\$6 MM OR NOBERS), ROON VO. RESISTANT HERE OR THEN HOLLDON, CAUSE SITAMANDE OPERS CAUSE AND SHAPE OF SHAPE OF CHET AND DRY) OPERATION; LISTED OR LABELED FOR THE LOCATION AND RACEWAY SYSTEM USED, UNLESS
- 12. SUPPLEMENTAL EQUIPMENT GROUND WIRING LOCATED OUTDOORS, OR BELOW GRADE, SHALL BE SINGLE CONDUCTOR #2 AWG SOLID TINNED COPPER CABLE, UNLESS OTHERWISE SPECIFIED.
- 13. POWER AND CONTROL WIRING, NOT IN TUBBING OR COMDUIT, SHALL BE MULTI-CONDUCTOR, TYPE TO CABLE (#34 AND OR LARGER), 600 V, OIL RESISTANT THEN OR THINN-2, CLASS B STRANDED COPPER CABLE RATED FOR 90 °C (WET AND DRY) OPERATION; WITH OUTER JUCKET; LISTED OR LABELED FOR THE LOCATION USED, UNLESS OTHERWISE SPECIFED.
- 14. ALL POWER AND GROUNDING CONNECTIONS SHALL BE CRIMP-STYLE, COMPRESSION WIRE LUGS AND WIRENUTS BY HARGER (OR EQUAL). LUGS AND WIRENUTS SHALL BE RATED FOR OPERATION AT NO LESS THAN 75°C (90°C IF AVAILABLE).
- 15. RACEWAY AND CABLE TRAY SHALL BE LISTED OR LABELED FOR ELECTRICAL USE IN ACCORDANCE WITH NEMA, UL, ANSI/IEEE AND NEC.
- 17. ELECTRICAL METALLIC TUBING (EMT) OR RIGID NONMETALLIC CONDUIT (I.E., RIGID PVC SCHEDULE 40 OR RIGID PVC SCHEDULE 80 FOR LOCATIONS SUBJECT TO PHYSICAL DAMAGE) SHALL BE USED FOR EXPOSED INDOOR LOCATIONS.
- 18. ELECTRICAL METALLIC TUBING (EMT), ELECTRICAL NONMETALLIC TUBING (ENT), OR RIGID NONMETALLIC CONDUIT (RIGID PVC, SCHEDULE 40) SHALL BE USED FOR CONCEALED INDOOR LOCATIONS.
- 20. RIGID NONMETALLIC CONDUIT (I.E., RIGID PVC SCHEDULE 40 OR RIGID PVC SCHEDULE 80) SHALL BE USED UNDERGROUND; DIRECT BURIED, IN AREAS OF OCCISIONAL LIGHT VEHICLE TRAFFIC OR ENCASED IN REINFORCED CONCRETE IN AREAS OF HEAVY VEHICLE TRAFFIC.
- LIQUID-TIGHT FLEXIBLE METALLIC CONDUIT (LIQUID-TITE FLEX) SHALL BE USED INDOORS AND OUTDOORS, WHERE VIBRATION OCCURS OR FLEXIBILITY IS NEEDED.
- 22. CONDUIT AND TUBING FITTINGS SHALL BE THREADED OR COMPRESSION—TYPE AND APPROVED FOR THE LOCATION USED. SETSCREW FITTINGS ARE NOT ACCEPTABLE.
- 23. CABINETS, BOXES AND WIREWAYS SHALL BE LISTED OR LABELED FOR ELECTRICAL USE IN ACCORDANCE WITH NEWA,
- 24. CABINETS, BOXES AND WIREWAYS TO MATCH THE EXISTING INSTALLATION WHERE POSSIBLE
- 26. EQUIPMENT CABINETS, TERMINAL BOXES, JUNCTION BOXES, AND PULL BOXES SHALL BE GALVANIZED OF EPOXY-COATED SHEET STEEL, SHALL MEET OR EXCEED UL 50, AND RATED NEMA 1 (OR BETTER) INDOORS, OR NEMA
- 27. METAL RECEPTACLE, SWITCH, AND DEVICE BOXES SHALL BE GALVANIZED, EPOXY-COATED, OR NON-CORRODING; SHALL MEET OR EXCEED UL 514A AND HEMA OS 1; AND RATED NEMA 1 (OR BETTER) INDOORS, OR WEATHER PROTECTED (WP OR BETTER) UDDOORS.
- 28. NONMETALLIC RECEPTACLE, SWITCH, AND DEVICE BOXES SHALL MEET OR EXCEED NEMA OS 2; AND RATED NEMA 1 (OR BETTER) INDOORS, OR WEATHER PROTECTED (WP OR BETTER) OUTDOORS.
- 29. THE SUBCONTRACTOR SHALL NOTIFY AND OBTAIN NECESSARY AUTHORIZATION FROM THE CONTRACTOR BEFORE COMMENCING WORK ON THE AC POWER DISTRIBUTION PANELS.
- 30. THE SUBCONTRACTOR SHALL PROVIDE NECESSARY TAGGING ON THE BREAKERS, CABLES AND DISTRIBUTION PANELS IN ACCORDANCE WITH THE APPLICABLE CODES AND STANDARDS TO SAFEGUARD AGAINST LIFE AND PROPERTY.
- 31. ALL ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS, NEC AND ALL APPLICABLE LOCAL CODES.
- 32. CONDUIT ROUTINGS ARE SCHEMATIC. SUBCONTRACTOR SHALL INSTALL CONDUITS SO THAT ACCESS TO EQUIPMENT IS NOT BLOCKED.

T-MOBILE NORTHEAST LLC

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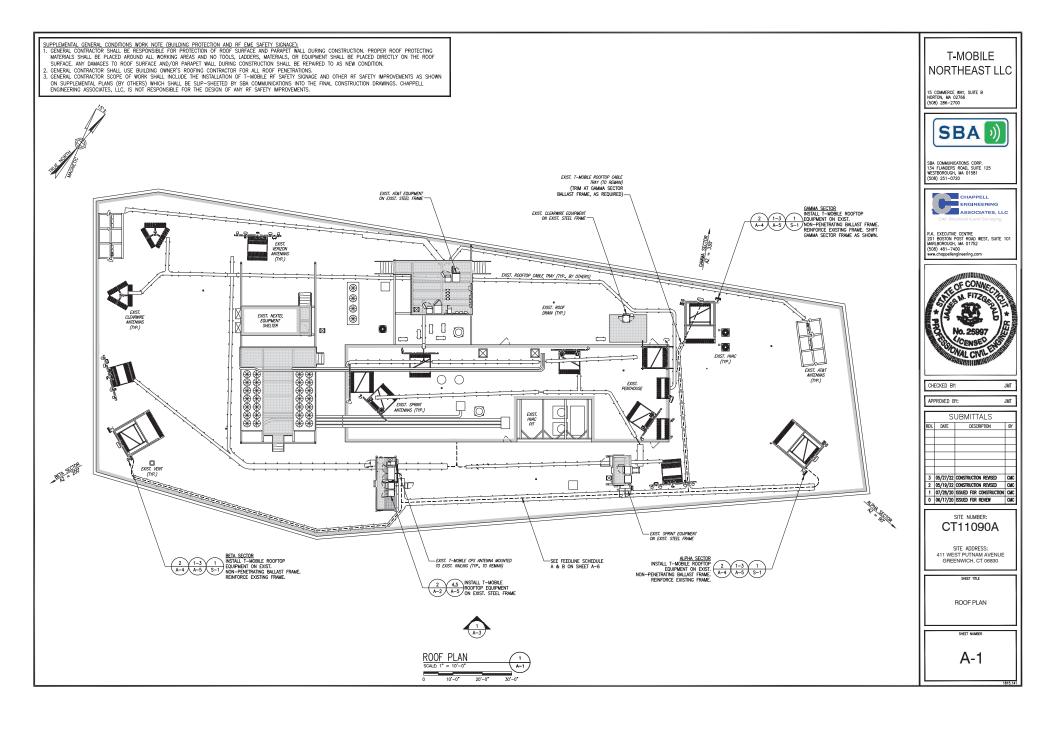
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GENERAL NOTES

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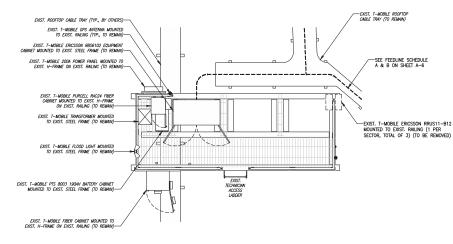
- SUPPLEMENTAL GENERAL CONDITIONS WORK NOTE (BUILDING PROTECTION AND RE FIME SAFETY SIGNAGE):

 1. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTION OF ROOF SUBFACE AND PARAPET WALL DURING CONSTRUCTION. PROPER ROOF PROTECTING MATERIALS SHALL BE PLACED ADROUND ALL WORKING AREAS AND NO TOOLS, LODGES, MATERIALS, OR EQUIPMENT SHALL BE PLACED DIRECTLY ON THE ROOF SUBFACE. ANY DAMAGES TO ROOF SUBFACE AND/OR PARAPET WALL DURING CONSTRUCTION SHALL BE REPAIRED TO AS NEW CONDITION.
- . General Contractor shall use building owner's roofing contractor for all roof penetrations.

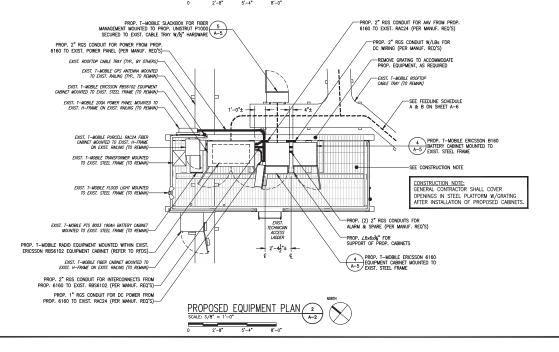
 General Contractor scope of work shall include the installation of t-mobile RF safety signage and other RF safety improvements as shown ON SUPPLEMENTAL PLANS (BY OTHERS) WHICH SHALL BE SLIP-SHEETED BY SBA COMMUNICATIONS INTO THE FINAL CONSTRUCTION DRAWINGS. CHAPPELL ENGINEERING ASSOCIATES, LLC, IS NOT RESPONSIBLE FOR THE DESIGN OF ANY RF SAFETY IMPROVEMENTS.



EXISTING EQUIPMENT PHOTO







T-MOBILE NORTHEAST LLC

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FOUIPMENT PLANS

SUPPLEMENTAL GENERAL CONDITIONS WORK NOTE (BUILDING PROTECTION AND RE EME SAFETY SIGNAGE):

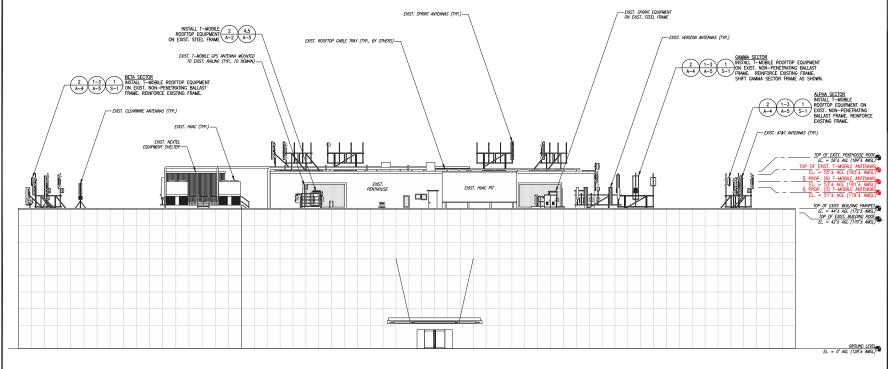
CENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTION OF ROOF SURFACE AND PARAPET WALL DURING CONSTRUCTION. PROPER ROOF PROTECTING MATERIALS SHALL BE PLACED BOOKOND ALL WORKING AREAS AND NO TOOLS, LADDERS, MATERIALS, OR EQUIPMENT SHALL BE PLACED DIRECTLY ON THE ROOF SURFACE. ANY DAMAGES TO ROOF SURFACE AND/OR PARAPET WALL DURING CONSTRUCTION SHALL BE REPARED TO AS NEW CONDITION.

C. GENERAL CONTRACTOR SHALL USE BUILDING OWNER'S ROOFING CONTRACTOR FOR ALL ROOF PENETRATIONS.

C. GENERAL CONTRACTOR SCOPE OF WORK SHALL INCLIDE THE INSTALLATION OF T-WOBILE RE SAFETY SIGNAGE AND OTHER RE SAFETY IMPROVEMENTS AS SHOWN ON SUPPLEABING PLANS (BY OTHERS) WHICH SHALL BE SUPPLEATED BY SOR COMMUNICATIONS INTO THE FINAL CONSTRUCTION DRAWINGS. CHAPPELL ENGINEERING ASSOCIATES, LLC, IS NOT RESPONSIBLE FOR THE DESIGN OF ANY RE SAFETY IMPROVEMENTS.

RAD CENTER NOTE:
T-MOBILE RAD CENTER SHOWN IN RED TEXT BASED ON SBA-PROVIDED
CO-LOCATION APPLICATION, EQUIPMENT DATABASE, AND STRUCTURAL
ANALYSS. THE SBA-PROVIDED ANTENNA RAD CENTER SHALL SUPERSED
ANY CONFLICTION INFORMATION DERIVED FROM THE T-MOBILE RFDS.

GENERAL CONTRACTOR NOTE: GENERAL CONTRACTOR SHALL REFER TO MOUNT STRUCTURAL ANALYSIS AND ANY MOUNT MODIFICATION DESIGN PROVIDED BY SBA



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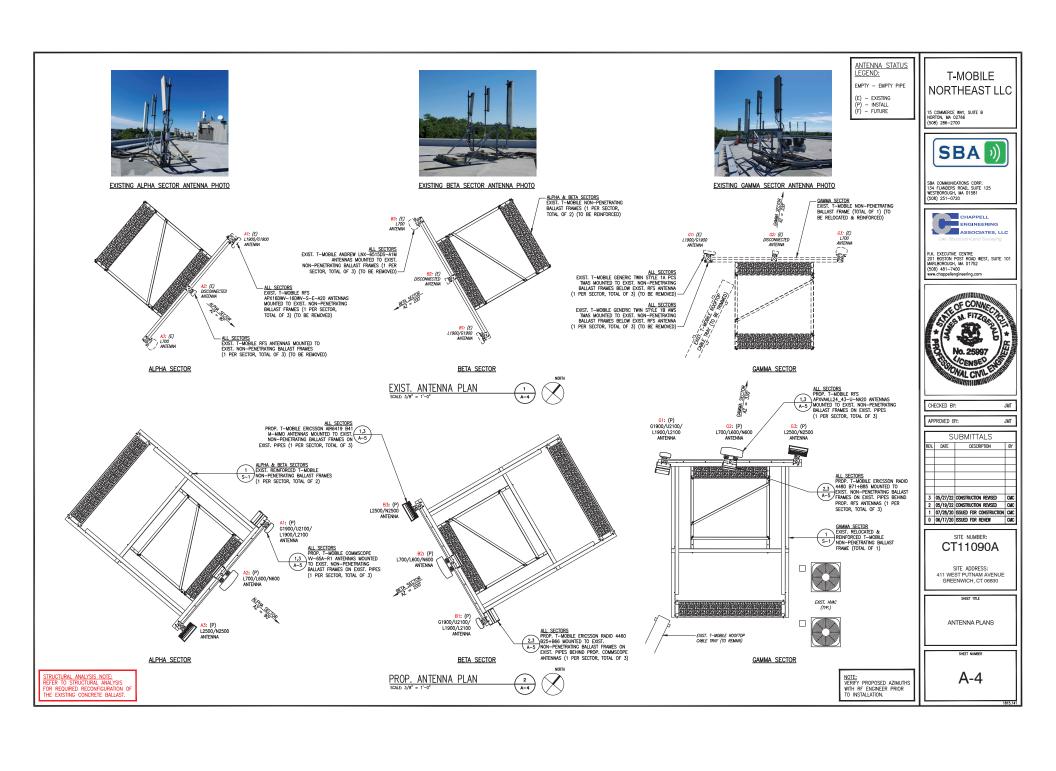
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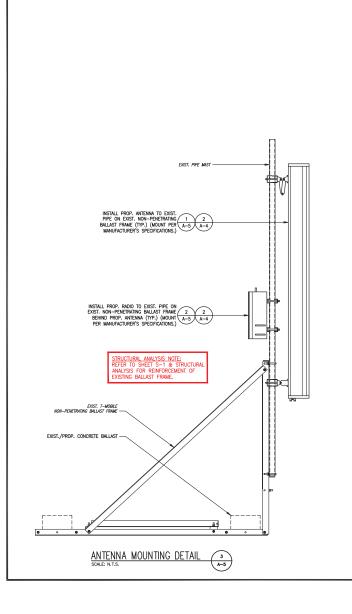
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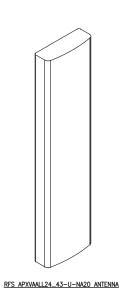
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BUILDING ELEVATION



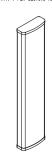




DIMENSIONS: 95.9"H x 24.0"W x 8.5"D WEIGHT: 122.8 lbs QUANTITY: 1 PER SECTOR, TOTAL OF 3



ERICSSON M-MIMO AIR6419 B41 ANTENNA DIMENSIONS: 36.3"H x 20.9"W x 9.0"D WEIGHT: 83.3 lbs QUANTITY: 1 PER SECTOR, TOTAL OF 3

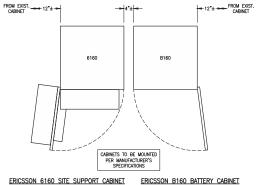


COMMSCOPE VV-65A-R1 ANTENNA

DIMENSIONS: 54.7"H x 12.1"W x 4.6"D WEIGHT: 23.8 lbs QUANTITY: 1 PER SECTOR, TOTAL OF 3







DIMENSIONS: 63.25"H x 26.0"W x 34.0"D QUANTITY: TOTAL OF 1

DIMENSIONS: 63.25"H x 26.0"W x 26.0"D QUANTITY: TOTAL OF 1

EQUIPMENT DETAIL SCALE: N.T.S. 4 A-5



ERICSSON RADIO 4460 B25+B66 DIMENSIONS: 17.0"H x 15.1"W x 11.9"D WEIGHT: 104.0 lbs QUANTITY: 1 PER SECTOR, TOTAL OF 3



ERICSSON RADIO 4480 B71+B85 DIMENSIONS: 19.2"H x 15.1"W x 7.5"D WEIGHT: 92.6 lbs QUANTITY: 1 PER SECTOR, TOTAL OF 3

RADIO DETAIL



SLACKBOX - HOFFMAN 32FH91 NEMA 3R ENCLOSURE DIMENSIONS: 24.0"H x 24.0"W x 12.0"D QUANTITY: TOTAL OF 1

A-5

SSC DETAILS

T-MOBILE NORTHEAST LLC

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SITE DETAILS

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	FINAL ANTENNA CONFIGURATION							
SECTOR	ANTENNA	RAD CENTER	AZIMUTH (TRUE NORTH)	MECHANICAL DOWNTILT	ELECTRICAL DOWNTILT	BAND	TMA/RADIOS	CABLES
	COMMSCOPE VV-65A-R1	53'± AGL	90"	σ	¢	G1900/U2100/L1900/L2100	ERICSSON RADIO 4460 B25+B66	
ALPHA	APXVAALL24_43-U-NA20	51'± AGL	90"	σ	2*	L700/L600/N600	ERICSSON RADIO 4480 B71+B85	
	ERICSSON M-MIMO AIR6419 B41	53'± AGL	90"	σ	2*	L2500/N2500	-	
	COMMSCOPE VV-65A-R1	53'± AGL	200°	o	¢	G1900/U2100/L1900/L2100	ERICSSON RADIO 4460 B25+B66	
BETA	RFS APXVAALL24_43-U-NA20	51'± AGL	200°	σ	2*	L700/L600/N600	ERICSSON RADIO 4480 B71+B85	(3) 1-%" (6x12) HCS FIBER CABLES PROP. (3) 2" (6x24) HCS FIBER CABLES
	ERICSSON M-MIMO AIR6419 B41	53'± AGL	200°	σ	2*	L2500/N2500	-	
	COMMSCOPE VV-65A-R1	53'± AGL	330*	o	¢	G1900/U2100/L1900/L2100	ERICSSON RADIO 4460 B25+B66	
GAMMA	RFS APXVAALL24_43-U-NA20	51'± AGL	330*	σ	2°	L700/L600/N600	ERICSSON RADIO 4480 B71+B85	
	ERICSSON M-MIMO AIR6419 B41	53'± AGL	330*	σ	2°	L2500/N2500	-	
CABLE NOTE:	CABLE NOTE: EXISTING (18) 1—56 COAX CABLES TO BE REMOVED. SEE FEEDLINE SCHEDULE A & B BELOW.							

NOTE: RFDS REV6 - 01/28/22

FEEDLINE SCHEDULE					
SCHEDULE	FEEDLINES LOCATION				
А	EXISTING TO REMAIN:	(1) ½" COAX FOR GPS ANTENNA (3) 1-%" (6x12) HCS FIBER CABLES (18) 1-%" COAX CABLES	ROUTED PER		
PROPOSED: (3) 2* (6x24) HCS FIBER CABLES ANALYSIS					
NOTE: EXISTING T-MOBILE EQUIPMENT FEEDLINE INVENTORY BASED ON OBSERVED FIELD CONDITIONS. RFDS AND FEEDLINE LEASING ENTITLEMENTS MAY DIFFER.					

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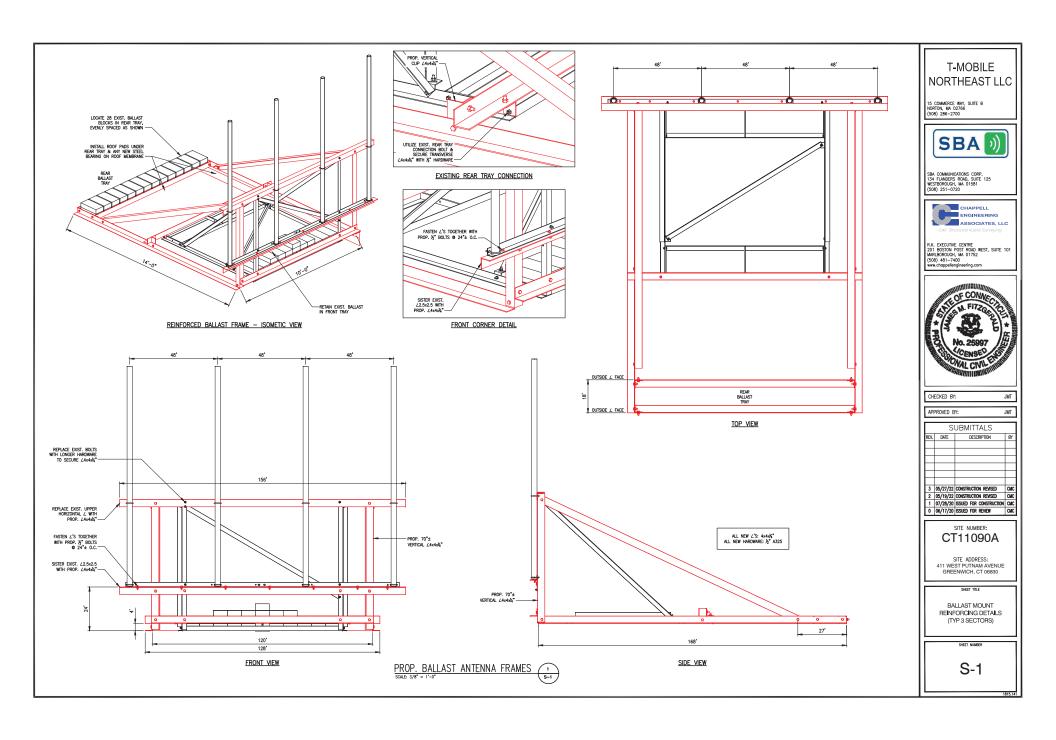
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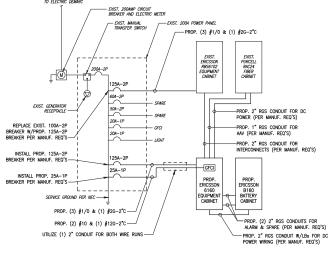
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FEEDLINE CHARTS

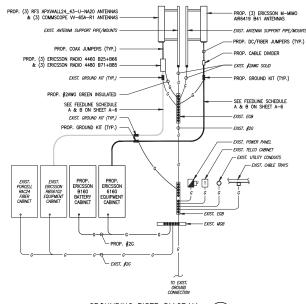
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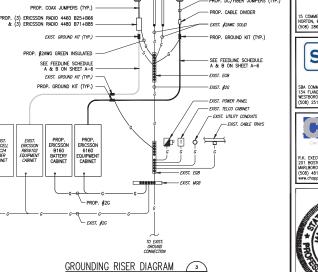






ONE LINE DIAGRAM



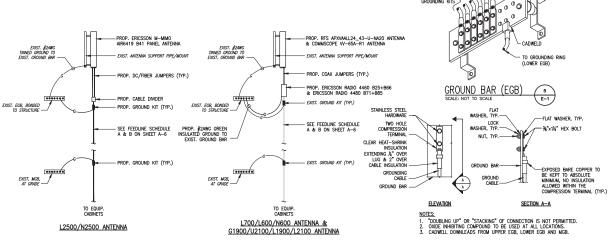




L2500/N2500 ANTENNA

COAX CABLE CONNECTION

AND GROUNDING DETAIL



G1900/U2100/L1900/L2100 ANTENNA

4 E-1

ELECTRICAL AND GROUNDING NOTES

- ALL ELECTRICAL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE (NEC) AS WELL AS APPLICABLE STATE
 AND LOCAL CODES.
- 2. ALL ELECTRICAL ITEMS SHALL BE U.L. APPROVED OR LISTED AND PROCURED PER SPECIFICATION REQUIREMENTS
- THE ELECTRICAL WORK INCLUDES ALL LABOR AND MATERIAL DESCRIBED BY DRAWINGS AND SPECIFICATION INCLUDING INCIDENTAL WORK TO PROVIDE COMPLETE OPERATING AND APPROVED ELECTRICAL SYSTEM.
- GENERAL CONTRACTOR SHALL PAY FEES FOR PERMITS, AND IS RESPONSIBLE FOR OBTAINING SAID PERMITS AND COORDINATION OF INSPECTIONS.

ANDREW UGBKIT2

ANTENNA MOUNT GROUND

TYPICAL GROUND BAR

CONNECTIONS DETAIL

COAX CABLE

- 7. ELECTRICAL WIRING SHALL BE COPPER WITH TYPE XHHW, THWN, OR THININSULATION.
- RUN ELECTRICAL CONDUIT OR CABLE BETWEEN ELECTRICAL UTILITY DEMARCATION POINT AND PROJECT OWNER CELL SITE PPC AS INDICATED ON THIS DRAWNING. PROVIDE FULL LENGTH PULL ROPE. COORDINATE INSTALLATION WITH UTILITY COMPANY.
- RUN TELCO CONDUIT OR CHELE BETWEEN TELEPHONE UTILITY DEMARCATION POINT AND PROJECT OWNER CELL SITE TELCO CABINET AND BTS CHARGET AS RODICATED ON THIS DRAWING PROVIDE FULL LENGTH PULL ROPE IN INSTALLED TELCO CONDUIT. PROVIDE GREENLEE CONDUIT WESSURGET TREAT AT LICH END.
- 10. WHERE CONDUIT BETWEEN BTS AND PROJECT OWNER CELL SITE PPC AND BETWEEN BTS AND PROJECT OWNER CELL SITE TELCO SERVICE CABINET ARE UNDERGROUND USE PVC, SCHEDULE 40 CONDUIT. ABOVE THE GROUND PORTION OF THESE CONDUITS SHALL BE PVC CONDUIT.
- 11. ALL EQUIPMENT LOCATED OUTSIDE SHALL HAVE NEMA 3R ENCLOSURE.
- 12. PPC SUPPLIED BY PROJECT OWNER.
- 13. GROUNDING SHALL COMPLY WITH NEC ART. 250. ADDITIONALLY, GROUNDING, BONDING AND LIGHTNING PROTECTION SHALL BE DONE IN ACCORDANCE WITH "T-MOBILE BTS SITE GROUNDING STANDARDS".
- GROUND COAXIAL CABLE SHIELDS MINIMUM AT BOTH ENDS USING MANUFACTURERS COAX CABLE GROUNDING KITS SLOWNER.
- 15. USE #6 COPPER STRANDED WIRE WITH GREEN COLOR INSULATION FOR ABOVE GRADE GROUNDING (UNLESS OTHERWISE SPECIFIED) AND #2 SOLID TINNED BARE COPPER WIRE FOR BELOW GRADE GROUNDING AS INDICATED ON THE DRAWING.
- ALL GROUND CONNECTIONS TO BE BURNDY HYGROUND COMPRESSION TYPE CONNECTORS OR CADWELD EXOTHERMIC WELD. DO NOT ALLOW BARE COPPER WIRE TO BE IN CONTACT WITH GALVANIZED STEEL.
- 17. ROUTE GROUPING CONCUCTORS AND THE SHORTEST AND STRANGIEST PAIN POSSBLE, EXCEPT AS OHERWISE ROICATED, GROWING LOOK STOWN THE SHORTEST AND STRANGIEST PAIN POSSBLE, EXCEPT AS OHERWISE ROICATED, GROWING AND LOOK STOWN AT A ROOK WAS AT LICENT TO FRANCIS BROKE. AS WHICE CONCUST OF THE PAIN PAIN AND LOOK STOWN THE CONCUST OF THE PAIN PAIN AND LOOK STOWN THE CONCUST CONCUST OWNERS CONCUSTOR OF CO
- CONNECTIONS TO GROUND BARS SHALL BE MADE WITH TWO HOLE COMPRESSION TYPE COPPER LUCS. APPLY OXIDE INHIBITING COMPOUND TO ALL LOCATIONS.
- 19. APPLY OXIDE INHIBITING COMPOUND TO ALL COMPRESSION TYPE GROUND CONNECTIONS
- 20. CONTRACTOR SHALL PROVIDE AND INSTALL OWNI DIRECTIONAL ELECTRONIC MARKER SYSTEM (EMS) BALLS OVER EACH GROUND ROD AND BONDING POINT BETWEEN EXIST. TOWER/ MONOPOLE GROUNDING RING AND EQUIPMENT GROUNDING RING.
- 21. CONTRACTOR SHALL TEST COMPLETED GROUND SYSTEM AND RECORD RESULTS FOR PROJECT CLOSE-OUT DOCUMENTATION, 5 OHMAS MINMUM RESISTANCE REQUIRED.
- CONTRACTOR SHALL CONDUCT ANTENNA, COAX, AND LINA RETURN-LOSS AND DISTANCE- TO-FAULT MEASUREMENTS (SWEEP TESTS) AND RECORD RESULTS FOR PROJECT CLOSE OUT.

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ELECTRIC & GROUNDING

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Exhibit E

Power Density/RF Emissions Report



RADIO FREQUENCY EMISSIONS ANALYSIS REPORT EVALUATION OF HUMAN EXPOSURE POTENTIAL TO NON-IONIZING EMISSIONS

T-Mobile Existing Facility

Site ID: CTI1090A

Greenwich/ Putnam Ave_2 411 West Putnam Avenue Greenwich, Connecticut 06830

August 17, 2022

EBI Project Number: 6222005199

Site Compliance Summary					
Compliance Status:	COMPLIANT				
Site total MPE% of FCC general population allowable limit:	40.21%				

August 17, 2022

T-Mobile
Attn: Jason Overbey, RF Manager
35 Griffin Road South
Bloomfield, Connecticut 06002

Emissions Analysis for Site: CT11090A - Greenwich/ Putnam Ave 2

EBI Consulting was directed to analyze the proposed T-Mobile facility located at **411 West Putnam Avenue** in **Greenwich**, **Connecticut** for the purpose of determining whether the emissions from the Proposed T-Mobile Antenna Installation located on this property are within specified federal limits.

All information used in this report was analyzed as a percentage of current Maximum Permissible Exposure (% MPE) as listed in the FCC OET Bulletin 65 Edition 97-01 and ANSI/IEEE Std C95.1. The FCC regulates Maximum Permissible Exposure in units of microwatts per square centimeter (μ W/cm²). The number of μ W/cm² calculated at each sample point is called the power density. The exposure limit for power density varies depending upon the frequencies being utilized. Wireless Carriers and Paging Services use different frequency bands each with different exposure limits; therefore, it is necessary to report results and limits in terms of percent MPE rather than power density.

All results were compared to the FCC (Federal Communications Commission) radio frequency exposure rules, 47 CFR 1.1307(b)(1) - (b)(3), to determine compliance with the Maximum Permissible Exposure (MPE) limits for General Population/Uncontrolled environments as defined below.

General population/uncontrolled exposure limits apply to situations in which the general population may be exposed or in which persons who are exposed as a consequence of their employment may not be made fully aware of the potential for exposure or cannot exercise control over their exposure. Therefore, members of the general population would always be considered under this category when exposure is not employment related, for example, in the case of a telecommunications tower that exposes persons in a nearby residential area.

Public exposure to radio frequencies is regulated and enforced in units of microwatts per square centimeter (μ W/cm²). The general population exposure limits for the 600 MHz and 700 MHz frequency bands are approximately 400 μ W/cm² and 467 μ W/cm², respectively. The general population exposure limit for the 1900 MHz (PCS), 2100 MHz (AWS) and 11 GHz frequency bands is 1000 μ W/cm². Because each carrier will be using different frequency bands, and each frequency band has different exposure limits, it is necessary to report percent of MPE rather than power density.



Occupational/controlled exposure limits apply to situations in which persons are exposed as a consequence of their employment and in which those persons who are exposed have been made fully aware of the potential for exposure and can exercise control over their exposure. Occupational/controlled exposure limits also apply where exposure is of a transient nature as a result of incidental passage through a location where exposure levels may be above general population/uncontrolled limits (see below), as long as the exposed person has been made fully aware of the potential for exposure and can exercise control over his or her exposure by leaving the area or by some other appropriate means.

Additional details can be found in FCC OET 65.

CALCULATIONS

Calculations were done for the proposed T-Mobile Wireless antenna facility located at 411 West Putnam Avenue in Greenwich, Connecticut using the equipment information listed below. All calculations were performed per the specifications under FCC OET 65. Since T-Mobile is proposing highly focused directional panel antennas, which project most of the emitted energy out toward the horizon, all calculations were performed assuming a lobe representing the maximum gain of the antenna per the antenna manufacturer's supplied specifications, minus 10 dB for directional panel antennas and 20 dB for highly focused parabolic microwave dishes, was focused at the base of the tower. For this report, the sample point is the top of a 6-foot person standing at the base of the tower.

For all calculations, all equipment was calculated using the following assumptions:

- 1) I LTE channel (600 MHz Band) was considered for each sector of the proposed installation. This Channel has a transmit power of 40 Watts.
- 2) I NR channel (600 MHz Band) was considered for each sector of the proposed installation. This Channel has a transmit power of 80 Watts.
- 3) I LTE channel (700 MHz Band) was considered for each sector of the proposed installation. This Channel has a transmit power of 40 Watts per Channel.
- 4) I GSM channel (PCS Band 1900 MHz) was considered for each sector of the proposed installation. This Channel has a transmit power of 10 Watts per Channel.
- 5) I LTE channel (PCS Band 1900 MHz) was considered for each sector of the proposed installation. This Channel has a transmit power of 160 Watts per Channel.
- 6) I UMTS channel (AWS Band 2100 MHz) was considered for each sector of the proposed installation. This Channel has a transmit power of 10 Watts per Channel.



- 7) I LTE channel (AWS Band 2100 MHz) was considered for each sector of the proposed installation. This Channel has a transmit power of 160 Watts per Channel.
- 8) I LTE Traffic channel (LTE IC and 2C BRS Band 2500 MHz) was considered for each sector of the proposed installation. This Channel has a transmit power of 45 Watts.
- 9) I LTE Broadcast channel (LTE IC and 2C BRS Band 2500 MHz) was considered for each sector of the proposed installation. This Channel has a transmit power of 15 Watts.
- 10) I NR Traffic channel (BRS Band 2500 MHz) was considered for each sector of the proposed installation. This Channel has a transmit power of 90 Watts.
- 11) I NR Broadcast channel (BRS Band 2500 MHz) was considered for each sector of the proposed installation. This Channel has a transmit power of 30 Watts.
- 12) All radios at the proposed installation were considered to be running at full power and were uncombined in their RF transmissions paths per carrier prescribed configuration. Per FCC OET Bulletin No. 65 Edition 97-01 recommendations to achieve the maximum anticipated value at each sample point, all power levels emitting from the proposed antenna installation are increased by a factor of 2.56 to account for possible in-phase reflections from the surrounding environment. This is rarely the case, and if so, is never continuous.
- 13) For the following calculations, the sample point was the top of a 6-foot person standing at the base of the tower. The maximum gain of the antenna per the antenna manufacturer's supplied specifications, minus 10 dB for directional panel antennas and 20 dB for highly focused parabolic microwave dishes, was used in this direction. This value is a very conservative estimate as gain reductions for these particular antennas are typically much higher in this direction.
- 14) A conservative roof attenuation factor of 10 dB, in which a radiofrequency signal is reduced by a factor of 10 due to intervening roof building materials, was also included. For purposes of this analysis, it is assumed that the roof building material is comprised of a poured concrete and steel underlayment with a rubber fabric roof membrane.
- 15) The antennas used in this modeling are the Commscope VV-65A-R1 for the 1900 MHz / 1900 MHz / 2100 MHz / 2100 MHz channel(s), the RFS APXVAALL24_43-U-NA20 for the 600 MHz / 600 MHz / 700 MHz channel(s), the Ericsson AIR 6419 for the 2500 MHz / 2500 MHz / 2500 MHz channel(s) in Sector A, the Commscope VV-65A-R1 for the 1900 MHz / 1900 MHz / 2100 MHz / 2100 MHz channel(s), the RFS APXVAALL24 43-U-NA20 for

the 600 MHz / 600 MHz / 700 MHz channel(s), the Ericsson AIR 6419 for the 2500 MHz / 2500 MHz / 2500 MHz / 2500 MHz channel(s) in Sector B, the Commscope VV-65A-RI for the 1900 MHz / 1900 MHz / 2100 MHz / 2100 MHz channel(s), the RFS APXVAALL24_43-U-NA20 for the 600 MHz / 600 MHz / 700 MHz channel(s), the Ericsson AIR 6419 for the 2500 MHz / 2500 MHz / 2500 MHz / 2500 MHz channel(s) in Sector C. This is based on feedback from the carrier with regard to anticipated antenna selection. All Antenna gain values and associated transmit power levels are shown in the Site Inventory and Power Data table below. The maximum gain of the antenna per the antenna manufacturer's supplied specifications, minus 10 dB for directional panel antennas and 20 dB for highly focused parabolic microwave dishes, was used for all calculations. This value is a very conservative estimate as gain reductions for these particular antennas are typically much higher in this direction.

- 16) The antenna mounting height centerline of the proposed antennas is 53 feet above ground level (AGL).
- 17) Emissions values for additional carriers were taken from the Connecticut Siting Council active database. Values in this database are provided by the individual carriers themselves.
- 18) All calculations were done with respect to uncontrolled / general population threshold limits.



T-Mobile Site Inventory and Power Data

Antenna #: Antenna #: Commscope VV- 65A-R 65A-R 1900 MHz / 2100 MHz /	Sector:	Α	Sector:	В	Sector:	С
Plake / Model: 65.A.R Make / Model: 1900 MHz / 1900 Frequency Bands: MHz / 2100 MHz / 1900 Frequency Bands: MHz / 2100 MHz / 1900 MHz	Antenna #:	ı	Antenna #:	ı	Antenna #:	ı
65A-RI 1900 MHz / 1900 1900 MHz / 2100	MI /MII	Commscope VV-	MI /MII	Commscope VV-	MI /MII	Commscope VV-
Frequency Bands: MHz / 2100 M	Make / Model:	65A-R I	Make / Model:	65A-R1	Make / Model:	65A-R1
Cain: dbd / 16.05 dbd / 16.0						
Section	Frequency Bands:		Frequency Bands:		Frequency Bands:	
Gain: dBd / 16.05 dBd / 16.0						
16.05 dBd	C :		. .		6 .	
Height (AGL): 53 feet	Gain:		Gain:		Gain:	
Channel Count: 4	Height (AGI):		Height (AGI):		Height (AGI):	
Total TX Power (W): 340.00 Watts ERP (W): 2,097.29 ERP (W): 3.41% Antenna CI MPE %: 3.41% Antenna CI MPE %: 3.41% Antenna #: 2 Antenna #: 2 Antenna #: 2 Antenna #: 2 APXVAALL24_43-U-NA20 NA20 NA20						
ERP (W): 2,097.29 ERP (W): 3.41% Antenna AI MPE % 3.41% Antenna #: 2		·		-		•
Antenna AI MPE % 3.41%	()		()		· /	
Antenna #: 2	. ,	,	· ,	,	. ,	,
RFS						
Make / Model: APXVAALL24_43-U-	Antenna #:		Antenna #:		Antenna #:	
NA20	Mala / Madal		M-I / M- J-I.		M-I / M- J-I.	
Frequency Bands: 600 MHz / 600 MHz 700 M	Make / Model:	_	Make / Model:	_	Make / Model:	_
Frequency Bands: /700 MHz						-
Gain: dBd / 13.65 dBd Gain: dBd / 13.65 dBd / 13.65 dBd / 13.65 dBd / 13.65 dBd Gain: dBd / 13.65 dBd / 13.6	Frequency Bands:		Frequency Bands:		Frequency Bands:	
Height (AGL): 51 feet Height (AGL): 51 feet Height (AGL): 51 feet Height (AGL): 51 feet	Cains	12.95 dBd / 12.95	Cains	12.95 dBd / 12.95	Cains	12.95 dBd / 12.95
Channel Count: 3 Channel Count: 3 Channel Count: 3 Total TX Power (W): 160.00 Watts Total TX Power (W): 160.00 Watts Total TX Power (W): 160.00 Watts ERP (W): 725.50 ERP (W): 725.50 ERP (W): 725.50 Antenna A2 MPE %: 3.10% Antenna B2 MPE %: 3.10% Antenna C2 MPE %: 3.10% Antenna #: 3 Antenna #: 3 Antenna #: 3 Make / Model: Ericsson AIR 6419 Make / Model: Ericsson AIR 6419 Make / Model: Ericsson AIR 6419 Frequency Bands: 2500 MHz / 2500 MHz Frequency Bands: Frequency Bands: 2500 MHz / 2500 MHz Frequency Bands: 22.05 dBd / 15.55 dBd / 15.55 dBd / 22.05 dB	Gain:	dBd / 13.65 dBd	Gain:	dBd / 13.65 dBd	Gain:	dBd / 13.65 dBd
Total TX Power (W):	Height (AGL):	51 feet	Height (AGL):	51 feet	Height (AGL):	51 feet
ERP (W): 725.50 ERP (W): 725.50 ERP (W): 725.50 Antenna A2 MPE %: 3.10% Antenna B2 MPE %: 3.10% Antenna C2 MPE %: 3.10% Antenna #: 3 Antenna #: 3 Antenna #: 3 Make / Model: Ericsson AIR 6419 Make / Model: Ericsson AIR 6419 Make / Model: Ericsson AIR 6419 Frequency Bands: 2500 MHz / 2500 MHz Frequency Bands: Frequency Bands: Frequency Bands: Frequency Bands: 2500 MHz / 2500 MHz Frequency Bands: 200 MHz / 2500 MHz Frequency Bands: 200 MHz / 2500 MHz / 20	Channel Count:	3	Channel Count:	3	Channel Count:	3
Antenna A2 MPE %: 3.10%	Total TX Power (W):	160.00 Watts	Total TX Power (W):	160.00 Watts	Total TX Power (W):	160.00 Watts
Antenna #: 3 Antenna #: 3 Antenna #: 3 Make / Model: Ericsson AIR 6419 Make / Model: Ericsson AIR 6419 Make / Model: Ericsson AIR 6419 Frequency Bands: 2500 MHz / 2500 MHz Prequency Bands: 2500 MHz / 2500 MHz Prequency Bands: 2500 MHz / 2500 MHz Prequency Bands: 2500 MHz / 2500 MHz Prequency Bands: 2500 MHz / 2500 MHz	ERP (W):	725.50	ERP (W):	725.50	ERP (W):	725.50
Make / Model: Ericsson AIR 6419 Make / Model: Ericsson AIR 6419 Make / Model: Ericsson AIR 6419 Frequency Bands: 2500 MHz / 2500 MHz / 2500 MHz / 2500 MHz 2500 MHz / 2500 MHz / 2500 MHz / 2500 MHz / 2500 MHz Frequency Bands: 2500 MHz / 2500 MHz / 2500 MHz / 2500 MHz Gain: 22.05 dBd / 15.55 dBd / 22.05 dBd / 15.55 dBd dBd 22.05 dBd / 15.55 dBd / 22.05	Antenna A2 MPE %:	3.10%	Antenna B2 MPE %:	3.10%	Antenna C2 MPE %:	3.10%
2500 MHz / 2500 MHz	Antenna #:	3	Antenna #:	3	Antenna #:	3
Frequency Bands: MHz / 2500 MHz Frequency Bands: MHz / 2500 MHz Gain: 22.05 dBd / 15.55 dBd / 22.05 dBd / 2	Make / Model:	Ericsson AIR 6419	Make / Model:	Ericsson AIR 6419	Make / Model:	Ericsson AIR 6419
2500 MHz 2500 MHz 2500 MHz 22.05 dBd / 15.55 dBd 22.05 dBd / 15.55 dBd 22.05 dBd / 15.55 dBd Gain: / 22.05 dBd / 15.55 dBd / 22.05 dBd / 15.55 dBd / 22.05 dBd / 15.55 dBd / 22.05 dBd / 15.55 dBd / 22.05 dBd / 15.55 dBd / 22.05 dBd / 15.55 dBd / 22.05 dBd / 15.55 dBd / 22.05 dBd / 15.55 dBd / 22.05 dBd / 15.55 dBd / 22.05 dBd / 15.55 dBd / 22.05 dBd / 15.55 dBd / 22.05 dBd / 15.55 dBd / 22.05 dBd / 15.55 dBd / 22.05 dBd / 15.55 dBd / 22.05 dBd / 15.55 dBd / 22.05 dBd / 15.55 dBd / 22.05 dBd / 15.55 dBd / 22.05 dBd / 15.55 dBd / 22.05 dBd / 15.55 dBd / 22.05 dBd / 15.55 dBd / 22.05 dBd / 15.55 dBd / 22.05 dBd / 15.55 dBd / 22.05 dBd / 15.55 dBd / 22.05 dBd / 15.55 dBd / 22.05 dBd / 15.55 dBd / 22.05 dBd / 15.55 dBd / 22.05 dBd / 15.55 dBd / 22.05 dBd / 15.55 dBd / 22.05 dBd / 15.55 dBd / 22.05 dBd / 15.55 dBd / 22.05 dBd / 15.55 dBd / 22.05 dBd / 15.55 dBd / 22.05 dBd / 15.55 dBd / 22.05 dBd / 15.55 dBd / 22.05 dBd / 15.55 dBd / 22.05 dBd / 15.55 dBd / 22.05 dBd / 15.55 dBd / 22.05 dBd / 15.55 dBd / 22.05 dBd / 15.55 dBd / 22.		2500 MHz / 2500		2500 MHz / 2500		2500 MHz / 2500
22.05 dBd / 15.55 dBd 22.0	Frequency Bands:	MHz / 2500 MHz /	Frequency Bands:	MHz / 2500 MHz /	Frequency Bands:	MHz / 2500 MHz /
Gain: / 22.05 dBd / 15.55 dBd Gain: / 22.05 dBd / 15.55 dBd / 22.05 dBd / 15.55 dBd Height (AGL): 53 feet Height (AGL): 53 feet Height (AGL): 53 feet Channel Count: 4 Channel Count: 4 Channel Count: 4 Total TX Power (W): 180.00 Watts Total TX Power (W): 180.00 Watts Total TX Power (W): 180.00 Watts ERP (W): 1,978.96 ERP (W): 1,978.96 ERP (W): 1,978.96						
dBd dBd dBd dBd Height (AGL): 53 feet Height (AGL): 53 feet Channel Count: 4 Channel Count: 4 Total TX Power (W): 180.00 Watts Total TX Power (W): 180.00 Watts ERP (W): 1,978.96 ERP (W): 1,978.96						
Height (AGL): 53 feet Height (AGL): 53 feet Height (AGL): 53 feet Channel Count: 4 Channel Count: 4 Channel Count: 4 Total TX Power (W): 180.00 Watts Total TX Power (W): 180.00 Watts Total TX Power (W): 180.00 Watts ERP (W): 1,978.96 ERP (W): 1,978.96 ERP (W): 1,978.96	Gain:		Gain:		Gain:	
Channel Count: 4 Channel Count: 4 Channel Count: 4 Total TX Power (W): 180.00 Watts Total TX Power (W): 180.00 Watts Total TX Power (W): 180.00 Watts ERP (W): 1,978.96 ERP (W): 1,978.96 ERP (W): 1,978.96						
Total TX Power (W): 180.00 Watts						
ERP (W): 1,978.96 ERP (W): 1,978.96 ERP (W): 1,978.96		•		'		'
	. ,	180.00 Watts	. ,	180.00 Watts	Total TX Power (W):	
Antenna A3 MPE %: 3.22% Antenna B3 MPE %: 3.22% Antenna C3 MPE %: 3.22%	ERP (W):	1,978.96		,	· ,	1,978.96
	Antenna A3 MPE %:	3.22%	Antenna B3 MPE %:	3.22%	Antenna C3 MPE %:	3.22%

environmental | engineering | due diligence

Site Composite MPE %					
Carrier	MPE %				
T-Mobile (Max at Sector A):	9.73%				
Dish	26.46%				
SNET/Cingular	2.26%				
Verizon	1.76%				
Site Total MPE %:	40.21%				

T-Mobile MPE % Per Sector					
T-Mobile Sector A Total: 9.73%					
T-Mobile Sector B Total:	9.73%				
T-Mobile Sector C Total:	9.73%				
Site Total MPE % : 40.21%					

T-Mobile Maximum MPE Power Values (Sector A)							
T-Mobile Frequency Band / Technology (Sector A)	# Channels	Watts ERP (Per Channel)	Height (feet)	Total Power Density (µW/cm²)	Frequency (MHz)	Allowable MPE (μW/cm²)	Calculated % MPE
T-Mobile 1900 MHz GSM	ı	59.91	53.0	0.98	1900 MHz GSM	1000	0.10%
T-Mobile 1900 MHz LTE	I	958.56	53.0	15.60	1900 MHz LTE	1000	1.56%
T-Mobile 2100 MHz UMTS	I	63.46	53.0	1.03	2100 MHz UMTS	1000	0.10%
T-Mobile 2100 MHz LTE	I	1015.36	53.0	16.52	2100 MHz LTE	1000	1.65%
T-Mobile 600 MHz LTE	I	177.65	51.0	3.15	600 MHz LTE	400	0.79%
T-Mobile 600 MHz NR	I	355.30	51.0	6.31	600 MHz NR	400	1.58%
T-Mobile 700 MHz LTE	I	192.56	51.0	3.42	700 MHz LTE	467	0.73%
T-Mobile 2500 MHz LTE IC & 2C Traffic	I	569.79	53.0	9.27	2500 MHz LTE IC & 2C Traffic	1000	0.93%
T-Mobile 2500 MHz LTE IC & 2C Broadcast	ļ	89.87	53.0	1.46	2500 MHz LTE IC & 2C Broadcast	1000	0.15%
T-Mobile 2500 MHz NR Traffic	I	1139.57	53.0	18.55	2500 MHz NR Traffic	1000	1.85%
T-Mobile 2500 MHz NR Broadcast	I	179.73	53.0	2.93	2500 MHz NR Broadcast	1000	0.29%
						Total:	9.73%

[•] NOTE: Totals may vary by approximately 0.01% due to summation of remainders in calculations.



Summary

All calculations performed for this analysis yielded results that were **within** the allowable limits for general population exposure to RF Emissions.

The anticipated maximum composite contributions from the T-Mobile facility as well as the site composite emissions value with regards to compliance with FCC's allowable limits for general population exposure to RF Emissions are shown here:

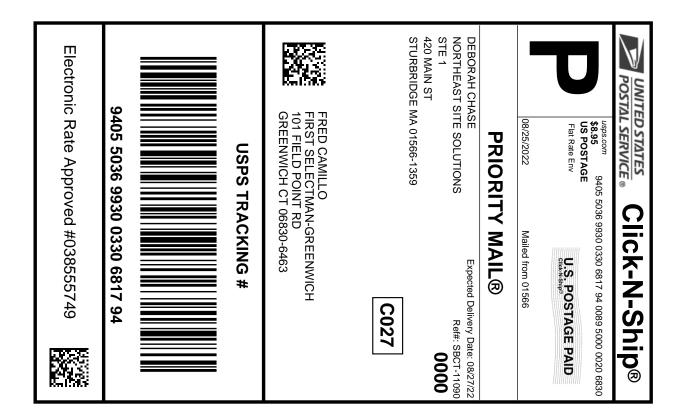
T-Mobile Sector	Power Density Value (%)		
Sector A:	9.73%		
Sector B:	9.73%		
Sector C:	9.73%		
T-Mobile Maximum	0.739/		
MPE % (Sector A):	9.73%		
Site Total:	40.21%		
Site Compliance Status:	COMPLIANT		

The anticipated composite MPE value for this site assuming all carriers present is **40.21**% of the allowable FCC established general population limit sampled at the ground level. This is based upon values listed in the Connecticut Siting Council database for existing carrier emissions.

FCC guidelines state that if a site is found to be out of compliance (over allowable thresholds), that carriers over a 5% contribution to the composite value will require measures to bring the site into compliance. For this facility, the composite values calculated were well within the allowable 100% threshold standard per the federal government.

Exhibit F

Recipient Mailings





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Instructions

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- 2. Place your label so it does not wrap around the edge of the package.
- 3. Adhere your label to the package. A self-adhesive label is recommended. If tape or glue is used, DO NOT TAPE OVER BARCODE. Be sure all edges are secure.
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- 5. Mail your package on the "Ship Date" you selected when creating this label.

Click-N-Ship® Label Record

USPS TRACKING #: 9405 5036 9930 0330 6817 94

Trans. #: 570479389 Print Date: 08/25/2022 08/25/2022 Ship Date: Delivery Date: 08/27/2022 Priority Mail® Postage: Total:

\$8.95 \$8.95

From: **DEBORAH CHASE**

Ref#: SBCT-11090

NORTHEAST SITE SOLUTIONS

STE 1

420 MAIN ST

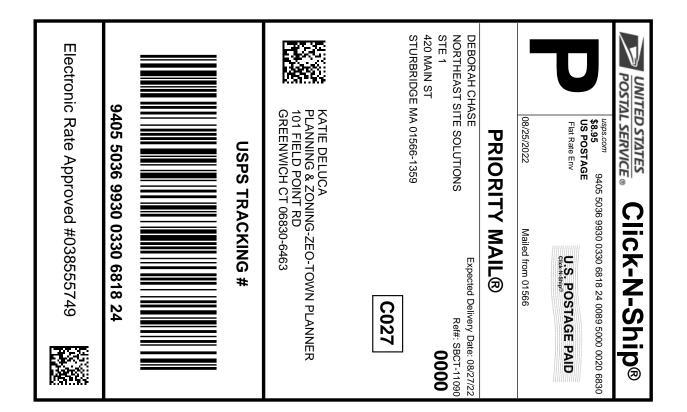
STURBRIDGE MA 01566-1359

FRED CAMILLO

FIRST SELECTMAN-GREENWICH

101 FIELD POINT RD GREENWICH CT 06830-6463

* Retail Pricing Priority Mail rates apply. There is no fee for USPS Tracking® service on Priority Mail service with use of this electronic rate shipping label. Refunds for unused postage paid labels can be requested online 30 days from the print date.





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- 4. To mail your package with PC Postage®, you may schedule a Package Pickup online, hand to your letter carrier, take to a Post Office™, or drop in a USPS collection box.
- 5. Mail your package on the "Ship Date" you selected when creating this label.

Click-N-Ship® Label Record

USPS TRACKING #: 9405 5036 9930 0330 6818 24

Trans. #: 570479389 Print Date: 08/25/2022 08/25/2022 Ship Date: Delivery Date: 08/27/2022 Priority Mail® Postage: Total:

\$8.95 \$8.95

Ref#: SBCT-11090

From: **DEBORAH CHASE**

NORTHEAST SITE SOLUTIONS

STE 1

420 MAIN ST

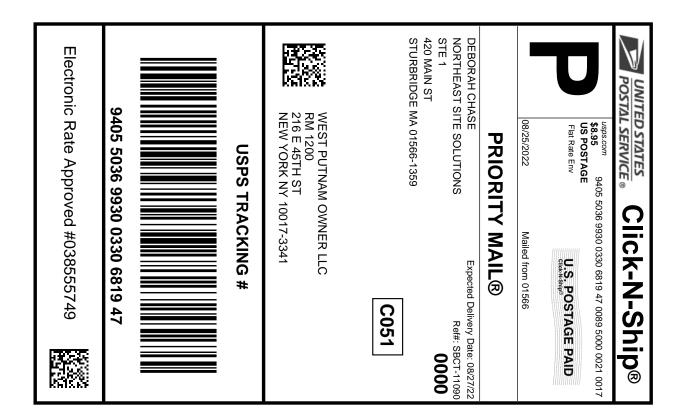
STURBRIDGE MA 01566-1359

KATIE DELUCA

PLANNING & ZONING-ZEO-TOWN PLANNER

101 FIELD POINT RD GREENWICH CT 06830-6463

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Instructions

- 1. Each Click-N-Ship® label is unique. Labels are to be used as printed and used only once. DO NOT PHOTO **COPY OR ALTER LABEL.**
- 2. Place your label so it does not wrap around the edge of the package.
- 3. Adhere your label to the package. A self-adhesive label is recommended. If tape or glue is used, DO NOT TAPE OVER BARCODE. Be sure all edges are secure.
- 4. To mail your package with PC Postage®, you may schedule a Package Pickup online, hand to your letter carrier, take to a Post Office™, or drop in a USPS collection box.
- 5. Mail your package on the "Ship Date" you selected when creating this label.

Click-N-Ship® Label Record

USPS TRACKING #: 9405 5036 9930 0330 6819 47

Trans. #: 570479389 Print Date: 08/25/2022 08/25/2022 Ship Date: 08/27/2022 Delivery Date:

Priority Mail® Postage: Total:

\$8.95 \$8.95

Ref#: SBCT-11090

From: **DEBORAH CHASE**

NORTHEAST SITE SOLUTIONS

STE 1

420 MAIN ST

STURBRIDGE MA 01566-1359

WEST PUTNAM OWNER LLC

RM 1200

216 F 45TH ST

NEW YORK NY 10017-3341

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CTILOGOA SBA TIMO



FARMINGTON 210 MAIN ST FARMINGTON, CT 06032-9998 (800)275-8777

08/26/2022

01:23 PM

Price

Product Qty Unit Price

\$0.00

Prepaid Mail

Greenwich, CT 06830 Weight: 0 1b 5.90 oz

Acceptance Date: Fri 08/26/2022

Tracking #: 9405 5036 9930 0330 6818 24

Prepaid Mail

\$0,00

Greenwich, CT 06830 Weight: 0 lb 5.90 oz Acceptance Date: Fri 08/26/2022

Tracking #: 9405 5036 9930 0330 6817 94

Prepaid Mail

New York, NY 10017 Weight: 0 lb 5.90 oz

Acceptance Date: Fri 08/26/2022

Tracking #: 9405 5036 9930 0330 6819 47

Grand Total:

\$0.00

\$0.00

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UFN: 082618-0132

Receipt #: 840-50600020-1-4891149-1

Clerk: 9