

	""""P qt y gcuv'Ukg''Uqnwkqpu'"
	""""F gpkug"Ucdq"
	"3; ; 'Dtken{ctf 'Tf 'Hcto kpi vqp. 'E V'28254"
	: 82/42; /68; 2"
	" <u>f gpkugB pqt yi gcuvukguqnwkqpu&qo</u> " " " " "
P qxgo dgt "32."4238" "	
O go dgtu'qh"y g"Ukkpi "Eqwpek Eqppgevkew" Ukkpi "Eqwpekt"	מו"
Vgp"Htcpmkp"Uswctg"	
P gy "Dtkckp."EV"28273"	
TG<""Pq√keg"qh'Gzgor√'Oqfkt	-
""""325'Gcuv'Uttggv'CMC/'2'E ""Ncvkwf g<630739: 2"	Entth'Utggv.'P cwi cwem'E V'28992"
'''''Nqpi kwf g≮/95023: ; 2"	
"""""V/O qdkrg" Ukvg% E VP J	527DaN922"
F gct 'O u0Dcej o cp<'	
Ut ggv'CMC/"2'EnctmiUt ggv."P cv Ej cppgri42' % e0'e k q''Y VKE 'VX0'	i tgg"*5+"cpygppcu"cv'y g"458/hqqv'hgxgn'qh'y g"gzkuwkpi "498/hqqv'i w{gf "vqy gt"cv'325"Gcuv" wi cwentEV"289920Vj g"vqy gt"ku"qy pgf "d{"Y VKE IY EEV/VX0Vj g"r tqr gtv{ "ku"qy pgf "d{" IV/O qdkg"pqy "kpygpf u"vq"kpuvcnt'y tgg"*5+"pgy "922"O J "cpygppcu"cpf "y tgg"*5+"pgy " j"pgy "cpygppcu"y qwrf "dg"kpuvcngf "cv'yj g"458/hqqv'hgxgn'qh'yj g"vqy gt0V/O qdkrg"cnuq" o qf khecvkqpu0"
Tgo qxg<"∛	'8+'3/71 ö'Eqcz''
	pf 'Tgr meg<"''' 8F Y X/38F Y XU/G/C42"cpvgppc'*Tgo qxg+'/'*5+'FDZP J /8787C/C4O ''Cpvgppc'*Tgr meg+''
'*3+'3/71:ö '*5+'TTWU	"D88'Cc ID4c'Cpvgppc'"" ;'J {dtk' 'нрg'" J'33'D34"""
	'\q'Tgo ckp<" "*8+'3/71: ö'Eqcz" "*8+CY UIREU'VOC''y ky "F kr ngzgt'*Tgnqecvgf 'htqo '\qy gt'\q'i tqwpf "qp"Pgy "J /Htco g+" "'



Vj ku'hcektks{ "y cu'cr r tqxgf "d { "y g'Dqtqwi j "qh'P cwi cwen0/Cr r tqxcn'y cu'i tcpvgf "qp'Lwn{ "39."3; ; 3'\q"gtgev/c" vtcpuo kuukqp"cpf "eqo o wpłecvkqp"vqy gt "y kj "cp"qxgtcm'j gki j v'qh'4: 3/hggv'y kj "uwr r qtvkpi "cpej qtu"cpf "i w{ "y ktgu0" Rngcug"ugg"cwcej gf 0"

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Vj g'r noppgf "o qf khecvlqpu'vq'vj g'ncekkv{ 'hcm'us wctgn{ 'y kj kp''vj qug''cevlxkvlgu''gzr nlekn{ 'r tqxkf gf 'hqt'kp'' TCEOEC0E'38/721/94*d+*d+0'

30Vj g'r tqr qugf "o qf khec kqpu'y km'pqv'tguwn/kp"cp"kpetgcug"kp"yj g'j gki j v'qh'yj g"gz kukpi "utwewtg0"

40'Vj g"r tqr qugf "o qf khecvkqpu"y km'pqv'tgs wktg"vj g"gzvgpukqp"qh'vj g"ukvg"dqwpf ct {0'

50'Vj g'r tqr qugf "o qf khecvkqpu'y kni'pqv'kpetgcug''pqkug''ngxgni''cv'yj g'hcekrkv{ "d { "ukz 'f gekdgni''qt "o qtg. "qt 'vq" ngxgni'yj cv'gzeggf "uvcvg''cpf "iqecn'et kgt kc0'

60'Vj g''qr gtcvkqp''qh''y g''tgr ncego gpv'cpvgppcu''y kni'pqv'kpetgcug''tcf kq'htgs vgpe{ "go kuukqpu''cv'yj g'hcekrkv{ ''vq''c'' ngxgn'cv''qt''cdqxg''y g'Hgf gtcn'Eqo o wpkecvkqpu'Eqo o kuukqp''uchgv{ ''ucpf ctf 0'

70Vj g'r tqr qugf "o qf khecvkqpu'y km'pqv'ecwug"c"ej cpi g"qt"cnugtcvkqp"kp"vj g"r j {ukecn'qt"gpxktqpo gpvcn' ej ctcevgtkuvkeu'qh'vj g"ukug0' "

80'Vj g"gzkuvkpi "uvt wewetg"cpf "ku"hqwpf cvkqp"ecp"uwr r qt v'yj g"r tqr qugf "rqcf kpi 0"

Hqt"y g'hqtgi qkpi 'tgcuqpu. "V/O qdkng'tgur gevhwm{ 'uwdo ku'y cv'y g'r tqr qugf 'o qf khecvkqpu'vq'y g''cdqxg" tghgtgpegf 'vgrgeqo o wpkecvkqpu'hceknkv{ 'eqpuvkwwg''cp"gzgo r v'o qf khecvkqp"wpf gt " TCECUCOÈ'38/721/94*d+*4+0'

"Ukpegtgn{."

"

" Denise Sabo" 'O qdkg<": 82/42; /68; 2" 'Hcz<"""635/743/277: " 'QlHeg<"'3; ; 'Dtken{ctf 'Tf.'Hcto kpi vqp.'EV'28254" 'Go ckr;""f gpkugB pqt y gcuvukguqnwkqpu@qo "

C weej o gpvu ee<P 0Y cttgp"öRgvgö"J guu"KKK'O c{qt"/"cu"grgevgf "qihkekni"" Ej cppgri42"Kpe0'e kq"Y VKE "VX"/"cu"vqy gt"qy pgt"("r tqr gtv{" qy pgt"

Exhibit A



BOROUGH OF NAUGATUCK

INLAND WETLANDS COmmission Planning Commission Zoning Board of Affeals Zoning Commission

> LANO USE OFFICE 213 CHURCH STREET NAUGATUCK. CT 06770 203/729-4571

I HEREBY CERTIFY THAT <u>Channel 20, Inc.</u> owner of record (owners address) <u>414 Meadow Street, Waterbury CT 06702</u>, filed an application pursuant to Section 32 of the Zoning Regulations of the Borough of Naugatuck for a SPECIAL PERMIT for property at <u>described in the attached Schedule A, which was APPROVED</u> AT THE MEETING OF THE ZONING COMMISSION HELD ON:

Wednesday	July 17, 1991
DAY	DATE
FOR THE PURPOSE OF:	Erecting and operating a transmission and communicatio
<u>tower with an overall he</u>	ight of 281 feet, with supporting anchors and
quy wires.	

SIGNED: (か) Zoning Chairman Commission Zonina Enforcement Officer

This action shall be filed with the Town Clerk on the Land Records of the Town as required by Section 8-3c(b) of the State Statutes.

SCHEDULE A

All that certain piece or parcel of land situated on the southerly side of East Side Boulevard in the City of Waterbury and in the Borough of Naugatuck, County of New Haven and State of Connecticut, bounded and described as follows:

Beginning at a point in the southerly line of East Side Boulevard in the City of Waterbury, Connecticut at the northeasterly corner of a parcel designated as a 50' R.O.W. on a map entitled "Subdivision of Peach Orchard Estates, Section Four, Waterbury, Conn., August, 1972, Scale: 1"=50'", recorded in Map Drawer IV, Page 386 of Waterbury Land Records, said 50' R.O.W. being located easterly of Lot #107 as shown on said Map, thence running easterly in the southerly line of East Side Boulevard and in a line curving to the left having a radius of 110.26 feet, a distance of 50.00 feet to land now or formerly of L & M Builders, Incorporated, thence running in line of land now or formerly of L & M Builder, Incorporated S 2°43'42W and crossing the Waterbury-Naugatuck Town Line from Waterbury 15.17feet into Naugatuck S 1° 19' 46" E, 125.00 feet, thence continuing in line of land now or formerly of L & M Builders, Incorporated S 87° 32' 18" E, 100.22 feet to The Naugatuck-Prospect Town Line and land now or formerly of George and Jennie Nardozza, thence running in line of land now or formerly of George and Jennie Nardozza, land now or formerly of Mary F. Raynor, land now or formerly of Grace M. Perun, land now or formerly of Thomas Bros., Inc., and land now or formerly of Philip J. Langdo S 1° 19' 46" E, 821.13 feet to land now or formerly of Estate of Stanley J. Lucas, the last described line being the Naugatuck-Prospect Town Line, thence running in line of land now or formerly of Estate of Stanley J. Lucas N 73° 32' 16" W, 181.07 feet, N 70° 15' 58" W, 117.30 feet, and N 69° 28' 34" W, 130.68 feet, N 57° 19' 46" W, 94.73 feet, N 71° 30' 34" W, 73.64 feet, and N 80° 52' 16" W, 45.91 feet to a point, thence running in line of remaining land of Francis M. McWeeney, Jr., N 1º 19' 46" W, 200.00 feet, N 88° 40' 14" E, 266.87 feet, N 1° 19' 46" W, 516.79 feet to Lot #107 as shown on a map entitled "Subdivision of Peach Orchard Estates Section Four", thence running in line of said lot #107 and a 50' wide Right of Way S 97° 32' 18" E, 165.00 feet, the last described line being the Naugatuck-Waterbury Town Line, thence running in the easterly line of a 50' wide Right of Way N 30° 36' 32" E, 31.53 feet to East Side Boulevard and the point of beginning. Bounded:

Northerly	-	by Lot #107 "Peach Orchard Estates Section Four", a 50' wide Right of Way, East Side Boulevard, and land now or formerly of L & M Builders, Incorpo-
	•	rated;
Easterly .	-	by land now or formerly of George & Jennie Nardozza, land now or formerly of Mary F. Raynor, land now or
• •		formerly of Grace M. Perun, land now or formerly of Thomas Bros. Inc., and land now or formerly of Philip J. Langdo;
		by land now or formerly of Estate of Stanley J. Lucas;
Westerly	-	by land now or formerly of Francis M. McWeeney, Jr.

Being a portion of the premises conveyed to Francis M. McWeeney, Jr., by L & M Builders, Incorporated a/k/a L & M Builders, Inc. by Quit-Claim Deed dated and recorded December 11, 1973 in Volume 1122, Page 152 of the Waterbury Land Records and in Volume 180, Page 27 of the Waugatuck Land Records. SCHEDULE A (continued)

Together with a right of way over area designated at 50' R.O.W. on map of "Subdivision of Peach Orchard Estates Section Four, Waterbury, Conn., August, 1972, Scale: 1"=50'", recorded in Drawer IV, Page 386, Waterbury Land Records, said right of way being located easterly of Lot #107 as shown on said Map and running southerly from East Side Boulevard to the Waterbury-Naugatuck Town Line as described in Volume 1121, Pages 011 and 012 of Waterbury Land Records.

Together with an easement and right of way through, over, under and across (a) the remaining land owned by Francis M. McWeeney, Jr. located northerly of the Waterbury town line and lying between said town line and the southerly line of East Side Boulevard, as shown on a map entitled "Map of Land of Thomas Bros., Inc. Prospect, Conn. The A. J. Patton Co., Surveyor, Waterbury, Conn. June 15, 1979 Scale: 1" = 40' Additions Oct. 21, 1980" (the "Map"), and (b) the remaining land of Francis M. McWeeney, Jr. located in the Town of Naugatuck, bounded northerly by the Waterbury town line, westerly and southerly by the Premises and easterly by land N/F of Grace M. Franco, as shown on said Map, to use said lands for all purposes customarily made of a public highway, including, without limiting the generality of the foregoing, the right to pass and repass on foot or in vehicles, to enter upon, travel and transport materials over and upon said lands and, if necessary or convenient, in connection therewith, the right to grade, excavate, fill or otherwise improve said lands, said easement and right of way to terminate upon the completion of the construction of a television tower and station upon the Premises.

Together with a permanent easement and right of way sufficient in width to satisfy town road specifications for the zone district in which the remaining land of Francis M. McWeeney, Jr. (as defined herein and hereinafter referred to as the "Remaining Property") is located, said easement to begin at a point in the westerly boundary of the Premises and running therefrom generally westerly through, over, under and across the Remaining Property to any future public highway constructed on or which adjoins or benefits the Remaining Property, to use said land for all purposes customarily made of a public highway, including without limiting the generality of the foregoing, the right to lay, install and maintain sewer, water and storm water lines therein, the right to pass and repass on foot or in vehicles, and, if necessary or convenient, in connection therewith, the right to grade, excavate, fill or otherwise improve said right of way. Said easement and right of way shall be located in such area as Francis M. McWeeney, Jr. or his successor shall determine; provided, however, that said easement and right shall be subject to the approval of the Naugatuck Economic Development Commission.

5 Exhibert



BOROUGH OF NAUGATUCK

PERMIT NO.		DATE		June 18	<u> </u>
PERMISSION TO: (BUILD) (MARE ALTER	ANONS SA BUILD	ZHYADDHRONK)	·		
			towar	81 foot high	• •
			······		
		0 /		+=	
DESCRIPTION OF PREMISES:	ZONING	PDD-8/ICC		\$70,000	· · · · · · · · · · · · · · · · · · ·
Northeast corner of N					
and Industrial Park, borde	ring Town of	Prospect and Ci	ty of Wa	terbury;	
Tax Map 354 C, Block 20E13	8, Lot A.				
		<u>_, </u>		·····	
				<u></u>	
FEE 359	· · · · · · · · · · · · · · · · · · ·				··-
WETLAND FLOOD PLAIN					
ZONING BOARD OF APPEALS					
HEALTH-LIQUID WASTE				APPLICANT: I hereby	
		Δ	info	mation contained he	rein is accurate.
SEPTIC TANK		(MD. ST	HL		
Granted, DATE	·	Signature of Applicar	<u>אן ייקדע</u> זו		
		Robert H. Hall,		for Channel 20.	The
ZONING ENFORCEMENT OFFICER		Name of Applicant (tor chunci 20,	1110.
		43 Main St.,P.O.		, Newtown, CT 0	6470
		Address			
		426-8177		<u>.</u>	
	<u>.</u>	Telephone No.			

THIS APPROVAL IS SUBJECT TO COMPLIANCE (PRIOR TO OCCUPANCY) WITH THE PROVISIONS OF THE ZONING REGULATIONS AND THE SUBDIVISION REGULATIONS OF THE BOROUGH OF NAUGATUCK (WHERE APPLICABLE) AND AS AUTHORIZED UNDER SECTION & OF THE CONNECTICUT GENERAL STATUTES, AS AMENDED. THIS PERMIT IS BASED UPON THE PLOT PLAN SUBMITTED. FALSIFICATION BY MISREPRESENTATION OR OMISSION SHALL CONSTITUTE A VIOLATION OF THE BOROUGH ZONING REGULATIONS.

Exhibit B



Converticut

Property Listing Report

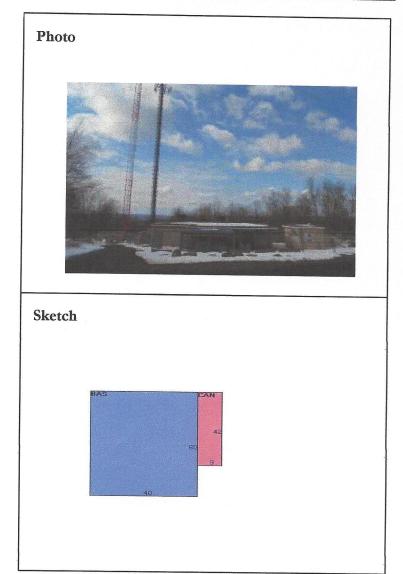
Map Block Lot K-20E138-A

Account

011-3060

Property Information

Property Location	0 CLARK	HILL RD	
Owner	CHANNE	L 20 INC C/O WT	IC TV
Co-Owner			
Mailing Address	C/O EQU	ITY PROPERTY 1	AX GROUP
	CHICAGO	D IL	60606-6115
Land Use	4330	RAD/TV TR	
Land Class	1		
Zoning Code			
Census Tract	-		
Sub Lot			
Neighborhood	D		
Acreage	7.9		
Utilities			
Lot Setting/Desc			
Survey Map			
Additional Info			



Primary Construction Details

1980		
1		
Transmit Bldg		
Ind/Comm		
С		
Concrete		

Bedrooms	
Full Bathrooms	1
Half Bathrooms	
Bath Style	
Kitchen Style	
Roof Style	Gable
Roof Cover	Metal/Tin

Exterior Walls	Pre-finsh Metl
Interior Walls	Drywall
Heating Type	Forced Hot Air
Heating Fuel	Electric
АС Туре	Central
Gross Bldg Area	2778
Total Living Area	2400



Borough of Naugatuck, CT

Property Listing Report

Map Block Lot K-20E138-A

Account 011-3060

Valuation Summary

(Assessed value = 70% of Appraised Value)

Item	Appraised	Assessed
Buildings	279060	195340
Extras	0	0
Outbuildings	375690	262990
Land	219000	153300
Total	873750	611630

Sub Areas

Subarea Type	Gross Area (sq ft)	Living Area (sq ft)
First Floor	2400	2400
Canopy	378	0
Total Area	2778	2400

Outbuilding and Extra Items

Гуре	Description	
CELL BLDG	170 S.F.	
CELL BLDG	360 S.F.	
Fence 6 ft	500 L.F.	
CELL BLDG	140 S.F.	
CELL BLDG	264 S.F.	
TV TOWER	280 HEIGHT	
TV TOWER	980 HEIGHT	

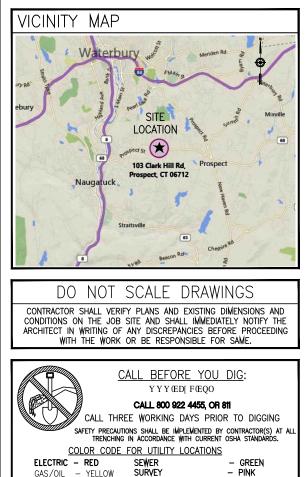
Sales History

Owner of Record	Book/ Page	Sale Date	Sale Price
CHANNEL 20 INC C/O WTIC TV	328/ 466	3/3/1989	1800000

Exhibit C

T - Mobile **T-MOBILE NORTHEA** SITE #: CTNH305B SITE NAME: NH305/CHANNE SITE ADDRESS: 103 EAST SIDE BLVD AKA CLARK HIL NAUGATUCK, CT 06770 WIRELESS BROADBAND FACILI

CONSTRUCTION DRAWINGS (794DB CONFIGURATION)



PROPOSED EXCAVATION - WHITE

– PURPLE

RECLAIMED WATER

TEL/CATV - ORANGE

GENERAL NOTES

- . THE CONTRACTOR SHALL GIVE ALL NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES. RULES, REGULATIONS AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY MUNICIPAL AND LITHITY 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 CONSTRUCT 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
- 3. THE CONTRACTOR OR BIDDER SHALL BEAR THE RESPONSIBILITY OF NOTIFYING (IN WRITING) THE T-MOBILE REPRESENTATIVE OF ANY CONFLICTS, ERRORS, OR OMISSIONS PRIOR TO THE SUBMISSION OF THE CONTRACTOR'S PROPOSAL OR PERFORMANCE OF WORK. IN THE EVENT OF DISCREPANCIES, THE CONTRACTOR SHALL PRICE THE MORE COSTLY OR EXPENSIVE WORK, UNLESS DIRECTED IN WRITING OTHERWISE.
- THE SCOPE OF WORK SHALL INCLUDE FURNISHING OF ALL MATERIALS, EQUIPMENT, LABOR AND ALL OTHER MATERIALS AND LABOR DEEMED NECESSARY TO COMPLETE THE WORK/PROJECT AS DESCRIBED HEREIN.
- . 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.
- 5. 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.
- 7. THE CONTRACTOR SHALL INSTALL ALL EQUIPWENT AND MATERIALS ACCORDING TO THE MANUFACTURER'S/VENDOR'S SPECIFICATIONS UNLESS NOTED OTHERWISE OR WHERE LOCAL CODES OR ORDINANCES TAKE PRECEDENCE. 18. REFER TO "RIGOROUS STRUCTURAL ANALYSIS FOR A 276' STAINLESS G-48 GUYED TOWER WATERBURY, CT PREPARED BY STAINLESS A BUSINESS OF FDH VELOCITEL, REPORT NUMBER 350810" DATED OCTOBER 21, 2016,
- . THE CONTRACTOR SHALL PROVIDE A FULL SET OF CONSTRUCTION DOCUMENTS AT THE SITE UPDATED WITH THE LATEST REVISIONS AND ADDENDUM OR CLARIFICATIONS AVAILABLE FOR THE USE BY ALL PERSONNEL INVOLVED WITH THE PROJECT

- 9. 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 CONTRACT.
- 10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ANY PERMITS AND INSPECTIONS WHICH ARE REQUIRED FOR THE WORK BY THE ARCHITECT/ENGINEER, THE STATE, COUNTY, OR LOCAL GOVERNMENT AUTHORITY

- 11. 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
- 12. 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 PROPERTY. PREMISES SHALL BE LEFT IN CLEAN CONDITION AND FREE FROM PAINT SPOTS, DUST, OR SMUDGES OF ANY NATURE.
- 13. THE CONTRACTOR SHALL COMPLY WITH ALL OSHA REQUIREMENTS, AS WELL AS THE LATEST EDITIONS OF ANY PERTINENT STATE SAFFTY REGULATIONS.
- 14. THE CONTRACTOR SHALL NOTIFY THE T-MOBILE 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 T-MOBILE REPRESENTATIVE. 15. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, ELEVATIONS,
- PROPERTY LINES, ETC., ON THE JOB.
- 16. THE CONTRACTOR SHALL RETURN ALL DISTURBED AREAS TO THEIR ORIGINAL CONDITION AT THE COMPLETION OF WORK.
- 17. ATLANTIS DESIGN GROUP, INC. HAS NOT CONDUCTED A STRUCTURAL ANALYSIS FOR THIS PROJECT AND DOES NOT ASSUME ANY LIABILITY FOR THE ADEQUACY OF THE STRUCTURE AND COMPONENTS.
- AND DESIGN DRAWINGS, EXISTING G48 TOWER, WATERBURY C PREPARED BY STAINLESS PROJECT NO 350810 DATED 10/14/2016. T-MOBILE SITE ID CTNH305B.

A ST LLC 3 IEL 20_ET		THAT IN A CALPUSION SUBMITTALS DATE DESCRIPTION SUBMITTALS DATE REVISION DIVOLOGY INC. S210 WAIN CAMPUS DRIVE LEXINGTON, WA 02421 Phone number: 617–652–3611 Fox Number : 781–742–2247
HILL ROAD ILITY GS) SITE INFORMATION	PROJECT SUB-CONTRACTORS	DEPT. DATE APP'D REVISIONS RFE APP'D REVISIONS OPROJECT NO: CTNH305B DRAWIN BY: FG CHECKED BY: KM
SITE NITE THE OFREW/RETORY SITE NUMBER: CTNH305B SITE NAME: NH305/CHANNEL 20_ET SITE ADDRESS: 103 LAT./LONG.: N 41.51780 JURISDICTION: TOWN OF NAUGATUCK , CT PROPERTY OWNER: WTIC/WCCT-TV ATTN: NANDO CIALFI 12 RIDGEVIEW DR. FARWINGTON, CT 06032	APPLICANT: T-MOBILE NORTHEAST, LLC. 35 GRIFFIN ROAD SOUTH BLOOMFIELD, CT 06002 (860) 692-7100 PROJECT MANAGER LISA LIN ALLEN NORTHEAST SITE SOLUTIONS 54 MAIN STREET STURBRIDGE, MA 01566 (508) 434-5237 A&E: ATLANTIS DESIGN GROUP INC. 3210 MAIN CAMPUS DRIVE LEXINGTON, MA 02421 (617)-852-3611	PROFESSIONAL SEAL
CODE COMPLIANCE <u>CONNECTICUT STATE BUILDING CODE</u> 2016 CONNECTICUT STATE BUILDING CODE 2012 INTERNATIONAL BUILDING CODE 2012 INTERNATIONAL EXISTING BUILDING CODE 2012 INTERNATIONAL EXISTING BUILDING CODE 2012 INTERNATIONAL EXISTING BUILDING CODE 2012 INTERNATIONAL MECHANICAL CODE 2012 INTERNATIONAL RESIDENTIAL CODE 2012 INTERNATIONAL RESIDENTIAL CODE 2014 NATIONAL ELECTRICAL CODE (NFPA 70) CONSTRUCTION TYPE: 2B USE GROUP: N/A	SHEET INDEX SHEET INDEX T-1 TITLE SHEET N-1 GENERAL AND ELECTRICAL NOTES A-1 SITE PLAN A-2 ELEVATION A-3 DETAILS E-1 GROUNDING AND COAX/FIBER DIAGRAM E-2 GROUNDING DETAILS	SITE NUMBER CTNH305B SITE NAME NH305/CHANNEL 20_ET SITE ADDRESS 103 EAST SIDE BLVD AKA CLARK HILL ROAD NAUGATUCK, CT 06770 SHEET TITLE TITLE SHEET SHEET NUMBER T-1

ELECTRICAL NOTES:

- 1 INCLUDE ALL LABOR. MATERIALS, FOUIPMENT, PLANT SERVICES AND ADMINISTRATIVE TASKS REQUIRED TO COMPLETE AND MAKE OPERABLE THE ELECTRICAL WORK SHOWN ON THE DRAWINGS. AND SPECIFIED HEREIN, INCLUDING BUT NOT LIMITED TO THE FOLLOWING.
- A. PREPARE AND SUBMIT SHOP DRAWINGS, DIAGRAMS AND ILLUSTRATIONS.
- B. PROCURE ALL NECESSARY PERMITS AND APPROVALS AND PAY ALL REQUIRED FEES AND CHARGES IN CONNECTION WITH THE WORK OF THIS CONTRACT
- C SUBMIT AS-BUILT DRAWINGS OPERATING AND MAINTENANCE INSTRUCTIONS AND MANUALS.
- D. EXECUTE ALL CUTTING, DRILLING, ROUGH AND FINISH PATCHING OF EXISTING OR NEWLY INSTALLED CONSTRUCTION REQUIRED FOR THE WORK OF THIS CONTRACT. FOR SLAB PENETRATIONS THROUGH POST TENSION SLABS, X-RAY EXACT AREA OF PENETRATION PRIOR TO PERFORMING WORK COORDINATE ALL X-RAY WORK WITH BUILDING ENGINEER
- E. PROVIDE HANGERS, SUPPORTS, FOUNDATIONS, STRUCTURAL RAMING SUPPORTS, AND BASES FOR CONDUIT AND EQUIPMENT PROVIDED OR INSTALLED UNDER THE WORK OF HIS CONTRACT. PROVIDE COUNTER FLASHING, SLEEVES AND SEALS FOR FLOOR AND WALL PENETRATIONS.
- MAINTAIN ALL EXISTING ELECTRICAL SERVICES IN THE BUILDING AREAS NOT AFFECTED BY THE ALTERATION DURING THE PROGRESS OF THE WORK INCLUDING PROVIDING ALL TEMPORARY JUMPERS, CONDUITS, CAPS, PROTECTIVE DEVICES, CONNECTIONS AND EQUIPMENT REQUIRED. PROVIDE TEMPORARY LIGHT AND POWER FOR CONSTRUCTION URPOSES
- 2. IT IS THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS TO CALL FOR AN INSTALLATION THAT IS COMPLETE IN EVERY RESPECT. IT IS NOT THE INTENT TO GIVE EVERY DETAIL ON THE DRAWINGS AND IN THE SPECIFICATIONS. IF AN ITEM OF WORK IS INDICATED IN THE DRAWINGS IT IS CONSIDERED SUFFICIENT FOR INCLUSION IN THE CONTRACT, FURNISH AND INSTALL ALL MATERIAL AND FOUIPMENT USUALLY FURNISHED OR NEEDED TO MAKE A COMPLETE INSTALLATION WHETHER OF SPECIFICALLY MENTIONED IN THE CONTRACT DOCUMENTS.

GENERAL REQUIREMENTS

- 1. PROVIDE ALL WORK IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE (NEC) AND LOCAL AND STATE ELECTRICAL
- 2 THE ELECTRICAL PLANS ARE DIAGRAMMATIC ONLY REFER TO THE ARCHITECTURAL PLANS FOR THE EXACT DIMENSIONS OF THE BUILDING.
- 3. LOAD CALCULATIONS ARE BASED ON EXISTING BUILDING INFORMATION/DRAWINGS PROVIDED TO ENGINEERING. CONTRACTOR IS TO VERIFY ALL EXISTING RATINGS AND LOADS PRIOR TO PURCHASING OF SPECIFIED FOUIPMENT FOR COMPLIANCE TO NEC. CONTRACTOR TO NOTIFY ENGINEER OF ANY DISCREPANCIES AND REQUEST FURTHER DIRECTION BY ENGINEER
- 4 EXISTING BUILDING FOURPMENT IS NOTED ON THE DRAWINGS NEW OR RELOCATED EQUIPMENT IS SHOWN WITH SOLID LINES. FUTURE FOUIPMENT (NOT IN THIS CONTRACT) IS DEPICTED WITH SHADED LINES. REQUEST CLARIFICATION OF DRAWINGS OR OF SPECIFICATIONS PRIOR TO PRICING OR INSTALLATION. GENERAL
- A. AFTER CAREFULLY STUDYING THE DRAWINGS AND SPECIFICATIONS, AND BEFORE SUBMITTING THE PROPOSAL, MAKE A MANDATORY SITE VISIT TO ASCERTAIN CONDITIONS OF THE SITE, AND THE NATURE AND EXACT QUANTITY OF WORK TO BE PERFORMED NO EXTRA COMPENSATION WILL BE ALLOWED FOR FAILURE TO NOTIFY THE OWNER, IN WRITING, OF ANY DISCREPANCIES THAT MAY HAVE BEEN NOTED BETWEEN THE EXISTING CONDITIONS AND THE DRAWINGS AND SPECIFICATIONS. B. VERIFY ALL MEASUREMENTS AT THE SITE AND BE
- RESPONSIBLE FOR CORRECTNESS OF SAME QUALITY, WORKMANSHIP, MATERIALS AND SAFETY
- A. PROVIDE NEW MATERIALS AND EQUIPMENT OF A DOMESTIC MANUFACTURER BY THOSE REGULARLY ENGAGED IN THE PRODUCTION AND MANUFACTURE OF SPECIFIED MATERIALS AND EQUIPMENT. WHERE UL, OR OTHER AGENCY, HAS ESTABLISHED STANDARDS FOR MATERIALS, PROVIDE MATERIALS WHICH ARE LISTED AND LABELED ACCORDINGLY. THE COMMERCIALLY STANDARD ITEMS OF EQUIPMENT AND THE SPECIFIC NAMES MENTIONED HEREIN ARE INTENDED FOR THE PROPER FUNCTIONING OF THE WORK
- B. WORK SHALL BE PERFORMED BY WORKMEN SKILLED IN THE TRADE REQUIRED FOR THE WORK. INSTALL MATERIALS AND EQUIPMENT TO PRESENT A NEAT APPEARANCE WHEN COMPLETED AND IN ACCORDANCE WITH THE APPROVED RECOMMENDATIONS OF THE MANUFACTURER AND IN ACCORDANCE WITH CONTRACT DOCUMENTS.
- C. PROVIDE LABOR, MATERIALS, APPARATUS AND APPLIANCES ESSENTIAL TO THE FUNCTIONING OF THE SYSTEMS DESCRIBED OR INDICATED HEREIN, OR WHICH MAY BE REASO IMPLIED AS ESSENTIAL WHENEVER MENTIONED IN THE CONTRACT DOCUMENT OR NOT
- D. MAKE WRITTEN REQUESTS FOR SUPPLEMENTARY INSTRUCTIONS TO ARCHITECT/ENGINEER IN CASE OF DOUBT AS TO WORK INTENDED OR IN EVENT OF NEED FOR EXPLANATION THEREOF
- E. PERFORMANCE AND MATERIAL REQUIREMENTS SCHEDULED OR SPECIFIED ARE MINIMUM STANDARD ACCEPTABLE. THE RIG TO JUDGE THE QUALITY OF EQUIPMENT THAT DEVIATES FROM HE CONTRACT DOCUMENT REMAINS SOLELY ARCHITECT/ENGINEER. CONTRACT DOCUMENT OR NOT
- 1. GUARANTEE MATERIALS, PARTS AND LABOR FOR WORK FOR ONE YEAR FROM THE DATE OF ISSUANCE OF OCCUPANCY PERMIT DURING THAT PERIOD. MAKE GOOD FAULTS OR IMPERFECTIONS. THAT MAY ARISE DUE TO DEFECTS OR OMISSIONS IN MATERIAL OR WORKMANSHIP WITH NO ADDITIONAL COMPENSATION AND AS DIRECTED BY ARCHITECT.

- CLEANING 1. REMOVE ALL CONSTRUCTION DEBRIS RESULTING FROM THE
- 2. CLEAN EQUIPMENT AND SYSTEMS FOLLOWING THE COMPLETION OF THE PROJECT TO THE SATISFACTION OF THE ENGINEER.
- COORDINATION AND SUPERVISION
 - CAREFULLY LAY OUT ALL WORK IN ADVANCE TO AVOID UNNECESSARY CUTTING, CHANNELING, CHASING OR DRILLING OF FLOORS, WALLS, PARTITIONS, CEILINGS OR OTHER SURFACES. WHERE SUCH WORK IS NECESSARY, HOWEVER, PATCH AND REPAIR THE WORK IN AN APPROVED MANNER BY SKILLED ECHANICS AT NO ADDITIONAL COST TO THE OWNER. RENDER FULL COOPERATION TO OTHER TRADES WHERE WORK WILL BE INSTALLED IN CLOSE PROXIMITY TO WORK OF OTHER TRADES. ASSIST IN WORKING OUT SPACE CONDITIONS IF WORK IS INSTALLED BEFORE COORDINATION WITH OTHER TRADES, OR CAUSES INTERFERENCE. MAKE CHANGES NECESSARY TO CORRECT CONDITIONS WITHOUT EXTRA CHARGE

SUBMITTALS

- 1 AS-BUILT DRAWINGS A. UPON COMPLETION OF THE WORK, FURNISH TO THE OWNER "AS-BUILT" DRAWINGS.
- 2. SERVICE MANUALS: A. UPON COMPLETION OF THE WORK, FULLY INSTRUCT T-MOBILE AS TO THE OPERATION AND MAINTENANCE OF ALL MATERIAL,
- FOUIPMENT AND SYSTEMS. B. PROVIDE 3 COMPLETE BOUND SETS OF INSTRUCTIONS FOR
- OPERATING AND MAINTAINING ALL SYSTEMS AND FOUIPMENT.
- CUTTING AND PATCHING
- 1. PROVIDE ALL CUTTING, DRILLING, ROUGH AND FINISH PATCHING
- REQUIRED TO COMPLETE THE WORK. 2. OBTAIN OWNER APPROVAL PRIOR TO CUTTING THROUGH FLOORS OR WALLS FOR PIPING OR CONDUIT.

TESTS, INSPECTION AND APPROVAL

- 1. BEFORE ENERGIZING ANY ELECTRICAL INSTALLATION, INSPECT EACH UNIT IN DETAIL. TIGHTEN ALL BOLTS AND CONNECTIONS (TORQUE-TIGHTEN WHERE REQUIRED) AND DETERMINE THAT ALL COMPONENTS ARE ALIGNED, AND THE EQUIPMENT IS IN SAFE, OPERATIONAL CONDITION. 2. PROVIDE THE COMPLETE ELECTRICAL SYSTEM FREE OF GROUND
- FAULTS AND SHORT CIRCUITS SUCH THAT THE SYSTEM WILL OPERATE SATISFACTORILY UNDER FULL LOAD CONDITIONS WITHOUT EXCESSIVE HEATING AT ANY POINT IN THE SYSTEM.
- SPECIAL REQUIREMENTS
- 1. DO NOT LEAVE ANY WORK INCOMPLETE NOR ANY HAZARDOUS SITUATIONS CREATED WHICH WILL AFFECT THE LIFE OR SAFETY OF THE PUBLIC AND/OR BUILDING OCCUPANTS DO NOT INTERFERE WITH OR CUTOFF ANY OF THE EXISTING SERVICES WITHOUT THE OWNER'S WRITTEN PERMISSION.
- 2. WHEN NECESSARY TO TEMPORARILY DISCONNECT ANY EXISTING BUILDING UTILITIES AND SERVICE SYSTEMS. INCLUDING FEEDER OR BRANCH CIRCUITING SUPPLYING EXISTING FACILITIES, CONFER WITH THE OWNER AND ARRANGE THE PERIOD OF INTERRUPTION FOR A TIME MUTUALLY AGREED UPON.
 - SHUTDOWN NOTE: SCHEDULE AND NOTIFY OWNER 48 HOURS PRIOR TO SHUTDOWN, ALL SHUTDOWN WORK TO BE
- GROUNDING
- 1. ROUTE ALL GROUNDING CONDUCTORS AS SHOWN ON CONDUIT/GROUNDING RISER
- 2. ROUTE 500 KCMIL CU. THHN CONDUCTOR FROM THE MGB LOCATION TO BUILDING STEEL VERIEY BUILDING STEEL IS EFFECTIVELY GROUNDED PER NEC TO THE MAIN SERVICE
- GROUNDING ELECTRODE CONDUCTOR (GEC). 3. MAKE ALL GROUND CONNECTIONS FROM MGB TO ELECTRICAL EQUIPMENT WITH 2 HOLE, CRIMP TYPE, BURNDY COMPRESSION ERMINATIONS, SIZED AS REQUIRED. 4. USE 1 HOLE. CRIMP TYPE. BURNDY COMPRESSIONS
- FERMINATIONS, SIZED AS REQUIRED, AT EQUIPMENT GROUND CONNECTIONS
- 5. HIRE AN INDEPENDENT LAB TO PERFORM THE SPECIFIED OHMS TESTING. PROVIDE 4 SETS OF THE CERTIFIED DOCUMENTS TO THE OWNER FOR VERIFICATION PRIOR TO THE PROJECT COMPLETION.
- RACEWAYS
- 1. ALL WIRING TO BE INSTALLED IN CONDUIT SYSTEMS IN ACCORDANCE WITH THE FOLLOWING:
- A. EXTERIOR FEEDERS AND CONTROL, WHERE UNDERGROUND, TO BE IN SCH 40 PVC.
- B. EXTERIOR, ABOVE GROUND POWER CONDUITS TO BE
- GALVANIZED RIGID STEEL (RGS). C. ALL TELECOMMUNICATION CONDUITS, INTERIOR/EXTERIOR, TO
- D. INSTALL PULL ROPES IN ALL NEW EMPTY CONDUITS INSTALLED
- ON THIS PROJECT.
- E. ALL TELECOM CONDUITS AND PULL BOXES INSTALLED ON THIS PROJECT TO BE LABELED 'T-MOBILE". OWNER WILL PROVIDE LABELS FOR CONTRACTOR TO INSTALL.
- F. INTERIOR FEEDERS TO BE INSTALLED IN E.M.T. WITH STEEL COMPRESSION FITTINGS G. MINIMUM SIZE CONDUIT TO BE 34" TRADE SIZE
- UNLESS OTHERWISE INDICATED ON THE DRAWINGS. H. FINAL CONNECTIONS TO MOTORS AND VIBRATING EQUIPMENT
- TO BE INSTALLED IN LIQUID-TIGHT FLEXIBLE METAL CONDUIT. I. CONDUIT TO BE RUN CONCEALED IN CEILINGS, FINISHED
- AREAS OR DRYWALL PARTITIONS LINEESS OTHERWISE NOTED J. THE ROUTING OF CONDUITS INDICATED ON THE DRAWINGS IS DIAGRAMMATIC. BEFORE INSTALLING ANY WORK. EXAMINE THE WORKING LAYOUTS AND SHOP DRAWINGS OF THE OTHER TRADES TO DETERMINE THE EXACT LOCATIONS AND
- K. ALL EXTERIOR MOUNTING HARDWARE TO BE GALVANIZED STEEL. COORDINATE WITH BUILDING ENGINEER PRIOR TO ATTACHING TO BUILDING STRUCTURE.

- RACEWAYS CONT'D L. PENETRATIONS OF WALLS, FLOORS AND ROOFS, FOR THE PASSAGE OF ELECTRICAL RACEWAYS, TO BE PROPERLY SEALED AFTER INSTALLATION OF RACEWAYS SO AS TO NTAIN THE STRUCTURAL OR WATERPROOF INTEGRITY OF THE WALL FLOOR OR ROOF SYSTEM TO BE PENETRATED SEAL ALL CONDUIT PENETRATIONS THROUGH FIRE OR SMOKE RATED WALLS, CEILINGS OR SMOKE TIGHT CORRIDOR ARTITIONS TO MAINTAIN PROPER RATING OF WALL OR CFILING.
 - M. PROVIDE ALL CONDUIT ENDS WITH INSULATED METALLIC GROUNDING BUSHINGS
 - N. CONDUIT TO BE SUPPORTED AT MAXIMUM DISTANCE OF 8'-0", OR AS REQUIRED BY NEC, IN HORIZONTAL AND VERTICAL DIRECTIONS.
 - O. PROVIDE STAINLESS STEEL BLANK COVER PLATES FOR ALL JUNCTION BOXES AND/OR OUTLET BOXES NOT USED IN EXPOSED AREAS. PROVIDE ALL OTHER UNUSED BOXES WITH STANDARD STEEL COVER PLATES.
- P. WHERE APPLICABLE, PROVIDE ROOFTOP CONDUIT SUPPORT SYSTEM, CONFORMING TO ROOFTOP WARRANTY REQUIREMENTS, PER BUILDING

WIRES AND CABLES

- 1. CONTRACTOR TO COORDINATE WITH EQUIPMENT SUPPLIER AND VENDOR FOR EXACT FOURPMENT OVER-CURRENT PROTECTION VOLTAGE, WIRE SIZE AND PLUG CONFIGURATION, IF APPLICABLE, PRIOR TO BID. 2. ALL EQUIPMENT/DEVICES TO BE PROVIDED WITH INSULATED
- GROUND CONDUCTOR
- 3. ALL WIRE AND CABLE TO BE 600VOLT, COPPER, WITH THWN/ THHN INSULATION, EXCEPT AS NOTED. 4. WIRE FOR POWER AND LIGHTING WILL NOT BE LESS THAN NO.
- 12AWG. ALL WIRE NO. 8 AND LARGER TO BE STRANDED. 5. CONTROL WIRING IS NOT TO BE LESS THAN NO. 14AWG
- FLEXIBLE IN SINGLE CONDUCTORS OR MULTI-CONDUCTOR CABLES. CONTROL WIRING WILL CONSIST OF MULTI-CONDUCTOR CABLES. WHEREVER POSSIBLE, CABLES TO BE PROVIDED WITH AN OVERALL FLAME-RETARDANT, EXTRUDED JACKET AND RATED FOR PLENUM USE, ALL CONTROL WIRE TO BE 600VOLT RATED. 6. WIRE PREVIOUSLY PULLED INTO CONDUIT IS CONSIDERED USED
- AND IS NOT TO BE RE-PULLED 7. HOME RUNS AND BRANCH CIRCUIT WIRING FOR 20A, 120V

<u>LENGTH (FT.)</u>	<u>HOME RUN WIRE SIZE</u>
0 TO 50	NO. 12
51 TO 100	NO. 10
101 TO 150	NO. 8

- 101 TO 150
- 8. VOLTAGE DROP IS NOT TO EXCEED 3%. 9. MAKE ALL CONNECTIONS WITH UL APPROVED. SOLDERLESS. PRESSURE TYPE INSULATED CONNECTORS: SCOTCHLOK OR AND APPROVED EQUAL.
- WIRING DEVICES 1. ALL RECEPTACIES INSTALLED IN THIS PROJECT TO BE GROUNDING TYPE, WITH GROUNDING PIN SLOT CONNECTED TO
- DEVICE GROUND SCREW FOR GROUND WIRE CONNECTION. DISCONNECT SWITCHES AND FUSES 1. DISCONNECT SWITCHES TO BE VOLTAGE-RATED TO SUIT THE
- CHARACTERISTICS OF THE SYSTEM FROM WHICH THEY ARE SUPPLIED. 2. PROVIDE HEAVY-DUTY, METAL-ENCLOSED, EXTERNALLY-OPERATED
- DISCONNECT SWITCHES FUSED OR UNFUSED OF SUCH TYPE AND SIZE AS REQUIRED TO PROPERLY PROTECT OR DISCONNECT THE LOAD FOR WHICH THEY ARE INTENDED.
- 3. PROVIDE NEWA 1 DISCONNECT SWITCHES FOR INTERIOR
- INSTALLATION NEWA 3R FOR EXTERIOR INSTALLATION 4. DISCONNECT SWITCHES TO BE MANUFACTURED BY: A. GENERAL ELECTRIC COMPANY
- SQUARE—D 5. PROVIDE RK-1 TYPE FUSES, UNLESS NOTED OTHERWISE.
- INSTALLATION 1. INSTALL DISCONNECT SWITCHES WHERE INDICATED ON
- 2. INSTALL FUSES IN FUSIBLE DISCONNECT SWITCHES. FUSES
- MUST MATCH IN TYPE AND RATING. 3. FUSES TO BE MOUNTED SO THAT THE LABELS SHOWING THEIR
- RATINGS CAN BE READ WITHOUT REQUIRING FUSE REMOVAL. 4. FURNISH AND DEPOSIT SPARE FUSES AT THE JOB SITE AS
- FOLLOWS: A. THREE SPARES FOR EACH TYPE AND SIZE, IN EXCESS OF
- 60A, USED FOR INITIAL FUSING. B. TEN PERCENT SPARES FOR EACH TYPE AND SIZE, UP TO
- AND INCLUDING GOAD, USED FOR INITIAL FUSING. IN NO CASE WILL LESS THAN THREE FUSES OF ONE PARTICULAR TYPE AND SIZE BE FURNISHED.

GENERAL NOTES:

- INTENT 1. THESE SPECIFICATIONS AND CONSTRUCTION DRAWINGS ACCOMPANYING THEM DESCRIBE THE WORK TO BE DONE AND THE MATERIALS TO BE FURNISHED FOR CONSTRUCTION.
- 2. THE DRAWINGS AND SPECIFICATIONS ARE INTENDED TO BE FULLY EXPLANATORY AND SUPPLEMENTARY. HOWEVER, SHOULD ANYTHING BE SHOWN, INDICATED, OR SPECIFIED ON ONE AND NOT THE OTHER, IT SHALL BE DONE THE SAME AS IF SHOWN,
- INDICATED OR SPECIFIED IN BOTH 3. THE INTENTION OF THE DOCUMENTS IS TO INCLUDE ALL LABOR AND MATERIALS REASONABLY NECESSARY FOR THE PROPER
- EXECUTION AND COMPLETION OF THE WORK AS STIPULATED IN THE CONTRACT 4. THE PURPOSE OF THE SPECIFICATIONS IS TO INTERPRET THE INTENT OF THE DRAWINGS AND TO DESIGNATE THE METHOD OF
- THE PROCEDURE, TYPE AND QUALITY OF MATERIALS REQUIRED TO COMPLETE THE WORK.
- 5. MINOR DEVATIONS FROM THE DESIGN LAYOUT ARE ANTICIPATED AND SHALL BE CONSIDERED AS PART OF THE WORK. NO CHANGES THAT ALTER THE CHARACTER OF THE WORK WILL BE MADE OR PERMITTED BY THE OWNER WITHOUT ISSUING A CHANGE ORDER.

CONFLICTS 1 THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATIONS OF ALL MEASUREMENTS AT THE SITE BEFORE ORDERING ANY MATERIALS OR DOING ANY WORK. NO EXTRA CHARGE OR COMPENSATION SHALL BE ALLOWED DUE TO DIFFERENCE BETWEEN ACTUAL DIMENSIONS AND DIMENSIONS INDICATED ON THE CONSTRUCTION DRAWINGS. ANY SUCH DISCREPANCY IN DIMENSION WHICH MAY BE FOUND SHALL BE SUBMITTED TO THE OWNER FOR CONSIDERATION BEFORE THE CONTRACTOR PROCEEDS WITH THE WORK IN THE AFFECTED AREAS 2. THE BIDDER, IF AWARDED THE CONTRACT, WILL NOT

QUALITY ASSURA

ADMINISTRATION

INSURANCE AND

ALLOWED ANY EXTRA COMPENSATION BY REASON OF ANY MATTER OR THING CONCERNING SUCH BIDDER MIGHT HAVE FULLY INFORMED THEMSELVES PRIOR TO THE BIDDING 3. NO PLEA OF IGNORANCE OF CONDITIONS THAT EXIST, OR OF

DIFFICULTIES OR CONDITIONS THAT MAY BE ENCOUNTERED OR

ACCEPTED AS AN EXCUSE FOR ANY FAILURE OR OMISSION ON

THE PART OF THE CONTRACTOR TO FULFILL EVERY DETAIL OF

THE REQUIREMENTS OF THE CONTRACT DOCUMENTS

1. CONTRACTOR IS RESPONSIBLE FOR APPLICATION AND PAYMENT

1. ALL MATERIALS MUST BE STORED IN A LEVEL AND DRY FASHION

1. THE CONTRACTORS SHALL, AT ALL TIMES, KEEP THE SITE FREE

COMPLETION OF THE WORK. THEY SHALL REMOVE ALL RUBBISH FROM AND ABOUT THE BUILDING AREA, INCLUDING ALL THEIR

TOOLS, SCAFFOLDING AND SURPLUS MATERIALS AND SHALL

A. VISUALLY INSPECT EXTERIOR SURFACES AND REMOVE ALL

B. REMOVE ALL TRACES OF SPLASHED MATERIALS FROM

C. IF NECESSARY, TO ACHIEVE A UNIFORM DEGREE OF

A. VISUALLY INSPECT INTERIOR SURFACE AND REMOVE ALL

B. REMOVE ALL TRACES OF SPLASHED MATERIALS FROM

CHANGE ORDER PROCEDURE: 1. REFER TO SECTION 17 OF SIGNED MCSA: SEE PROFESSIONAL

TO BE THE RESPONSIBILITY OF THE CONTRACTOR

LISTED IN THESE SPECIFICATIONS TO THE OWNER FOR

2. ALL SHOP DRAWINGS SHALL BE REVIEWED, CHECKED AND CORRECTED BY CONTRACTOR PRIOR TO SUBMITTAL TO THE

1. SUBMIT 3 COPIES OF EACH REQUEST FOR SUBSTITUTION. IN

INCLUDE RELATED SPECIFICATION SECTION AND DRAWING

COMPLIANCE WITH THE REQUIREMENTS FOR SUBSTITUTIONS

SAMPLES TO THE OWNER FOR APPROVAL IN LIEU OF CUT

2. SUBMIT ALL NECESSARY PRODUCT DATA AND CUT SHEETS

UMBERS AND COMPLETE DOCUMENTATION SHOWING

WHICH PROPERLY INDICATE AND DESCRIBE THE ITEMS.

EACH REQUEST, IDENTIFY THE PRODUCT OR FABRICATION OR INSTALLATION METHOD TO BE REPLACED BY THE SUBSTITUTION.

PRODUCTS AND MATERIALS BEING INSTALLED. THE CONTRACTOR

SHALL IF DEFMED NECESSARY BY THE OWNER. SUBMIT ACTUAL

ARCHITECTURAL SYMBOLS

STORAGE

38

DETAIL REFERENCE KEY

- DRAWING DETAIL NUMBER-

EXISTING N.I.C.

LSHEET NUMBER OF DETAIL-

(3)

REFER TO

RE: 2/A-3

TRACES OF SOIL, WASTE MATERIALS, SMUDGES AND OTHER FOREIGN MATTER FROM WALLS, FLOOR, AND CEILING.

ADJACENT SURFACES. C. REMOVE PAINT DROPPINGS, SPOTS, STAINS, AND DIRT FROM

1. GENERAL CARPENTRY, ELECTRICAL AND ANTENNA DRAWINGS ARE INTERRELATED, IN PERFORMANCE OF THE WORK, THE

CONTRACTOR MUST REFER TO ALL DRAWINGS. ALL COORDINATION

1. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS AS REQUIRED AND

TRACES OF SOIL, WASTE MATERIALS, SMUDGES AND OTHER

CLEANLINESS, HOSE DOWN THE EXTERIOR OF THE STRUCTURE.

LEAVE THEIR WORK CLEAN AND READY TO USE.

RECOMMENDATIONS OF THE ASSOCIATED MANUFACTURER.

FROM ACCUMULATION OF WASTE MATERIALS OR RUBBISH CAUSED BY THEIR EMPLOYEES AT WORK AND AT THE

AND IN A MANNER THAT DOES NOT NECESSARILY OBSTRUCT THE

OTHER WORK. ANY STORAGE METHOD MUST MEET ALL

2. SEE MASTER CONTRACTION SERVICES AGREEMENT FOR

GOVERNING THE WORK

OF CONTRACTOR LICENSES AND BONDS

CONTRACTS AND WARRANTIES

ADDITIONAL DETAILS.

STORAGE

CLEANUE

2. FXTERIOR

3 INTERIOR

SHOP DRAWINGS

OWNER

SHEFTS

PRODUCTS AND SUBSTITUTIONS

ADJACENT SURFACES.

FINISHED SURFACES.

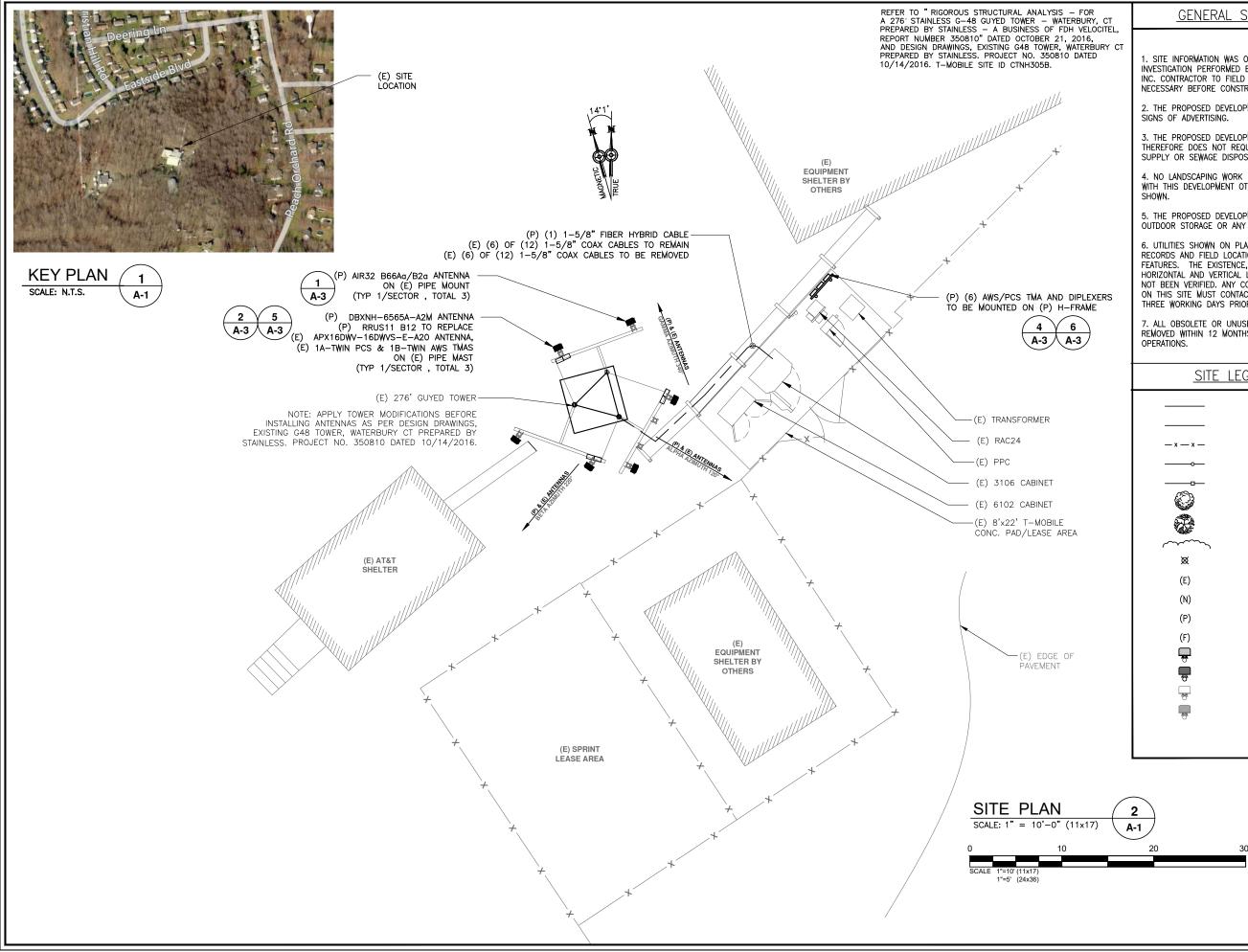
SERVICE AGREEMENT FOR MCSA.

RELATED DOCUMENTS AND COORDINATION

BE PERFORMED IN THE EXECUTION OF THE WORK WILL BE

ANY OTHER RELEVANT MATTER CONCERNING THE WORK TO

STATE AND FEL	ALL BE IN ACCORDAN DERAL REGULATIONS. D TO THE APPLICABLE	CE WITH APPLICABLE LOCAL, THESE SHALL INCLUDE, BUT E CODES SET FORTH BY THE E CODES INCETT	T - Mobile
DMINISTRATION	ING BODY. SEE "CODI		T-MOBILE NORTHEAST, LLC
WILL ASSIGN A	PROJECT MANAGER	NY WORK, THE CONTRACTOR WHO WILL ACT AS A SINGLE NNEL INVOLVED IN THIS WILL DEVELOP A MASTER	571 THHP TQCF UQWJ DNQQO HGNF :EV28224 QHHGC#: 82+8; 4/9322 HCZ ≪ 82+8; 4/937;
SCHEDULE FOR	THE PROJECT WHICH	HILL DEVELOF A MASTER H WILL BE SUBMITTED TO ICEMENT OF ANY WORK.	
2. SUBMIT A BAR DAYS AFTER TH	TYPE PROGRESS CH	ART, NOT MORE THAN 3 FOR COMMENCEMENT OF	∧
EACH MAJOR C	CATEGORY OR UNIT OF	CATING A TIME BAR FOR WORK TO BE PERFORMED	GROUP, INC.
OTHER ELEMEN	TS OF WORK AND SH	O AND COORDINATED WITH HOWING COMPLETION OF THE	3210 MAIN CAMPUS DRIVE LEXINGTON, MA 02421
FOR SUBSTANT	IAL COMPLETION OF 1	THE DATE ESTABLISHED THE WORK.	Phone number: 617-852-3611 Fax Number : 781-742-2247
SCHEDULE AN	ON-SITE MEETING WI	TON, THE OWNER SHALL TH ALL MAJOR PARTIES. THIS	
MANAGER, CON	TRACTOR, LAND OWNE	TO, THE OWNER, PROJECT ER REPRESENTATIVE, LOCAL TION FOREMAN (JE	SUBMITTALS DATE DESCRIPTION REVISION
SUBCONTRACTE	D).	with some means of	07/28/16 ISSUED FOR REVIEW A 08/09/16 FINAL CD 0
CONSTANT CON	MUNICATIONS, SUCH	AS A MOBILE PHONE OR A BE SUPPLIED BY THE	10/25/16 NEW CONFIGURATION 1 11/08/16 REVISION 2
OWNER, NOR V 5. DURING CONST	VILL WIRELESS SERVIC IRUCTION, CONTRACTO	e be arranged. Ir Must ensure that	
EMPLOYEES AN TIMES. CONTRA	D SUBCONTRACTORS	WEAR HARD HATS AT ALL VITH ALL WPCS SAFETY	
REQUIREMENTS 6. PROVIDE WRITT	IN THEIR AGREEMENT		
		CTION WATERIALS AND	
8. NOTIFY THE O	WNER/PROJECT MANA	START OF CONSTRUCTION. GER IN WRITING NO LESS ONCRETE POURS, TOWER	
	D EQUIPMENT CABINE		DEPT. DATE APP'D REVISIONS
SURANCE AND BOI 1. CONTRACTOR,	AT THEIR OWN EXPEN	ISE, SHALL CARRY AND	RFE
MAINTAIN, FOR	THE DURATION OF THE REQUIRED AND LIST	HE PROJECT, ALL	ZONING OPS CONSTR
COMMENCE WIT ORIGINAL CERT	TH THEIR WORK UNTIL IFICATE OF INSURANCI	. THEY HAVE PRESENTED AN E STATING ALL COVERAGES	CONSTR. SITE AC.
to the owner Required insu	R. REFER TO THE MAS JRANCE LIMITS.	STER AGREEMENT FOR	PROJECT NO: CTNH305B DRAWN BY: FG
2. THE OWNER S		AN ADDITIONAL INSURED ON ALL POLICIES. OF INSURANCE.	DRAWN BY: FG CHECKED BY: KM
		ABBREVIATIONS	
	ADJ AGL	ADJUSTABLE ABOVE GROUND LINE	
	& APPROX	AND APPROXIMATE	
	BTS	AT BASE TRANSMISSION STATION	ES: P ST P ST
	CAB CLG	CABINET CEILING	A Star F
	CONC	CONCRETE CONTINUOUS	10, 10, ARI, 118
	DIA OR Ø DWG	DIAMETER DRAWING	SED ARCHIN
	EA ELEC	EACH ELECTRICAL	
	ELEV EQ	ELEVATION EQUAL	PROFESSIONAL SEAL
	EQUIP EGB	EQUIPMENT EQUIPMENT GROUND BAR	THIS DOCUMENT IS THE CREATION,
	(E) EXT	EXISTING EXTERIOR	DESIGN, PROPERTY AND COPYRIGHTED WORK OF T-MOBILE. ANY DUPLICATION
	FF GA	FINISHED FLOOR GAUGE	OR USE WITHOUT EXPRESS WRITTEN CONSENT IS STRICTLY PROHIBITED.
	GALV GC	GALVANIZED GENERAL CONTRACTOR	
		GROUND LONG MAXIMUM	
	MAX MECH	MECHANICAL	CTNH305B SITE NAME
	MW MFR	MICROWAVE DISH MANUFACTURER	NH305/CHANNEL 20 ET
	MGB MIN	MASTER GROUND BAR MINIMUM	SITE ADDRESS
	MTL (N)	METAL NEW	103 EAST SIDE BLVD
	NIC NTS	NOT IN CONTRACT	AKA CLARK HILL ROAD NAUGATUCK, CT 06770
OLS	OC OPP	ON CENTER OPPOSITE	
	(P) PCS	PROPOSED PERSONAL COMMUNICATION SYSTEM	SHEET TITLE GENERAL
	PPC SF	POWER PROTECTION CABINET SQUARE FOOT	AND ELECTRICAL
(EY	SHT SIM	SHEET SIMILAR	NOTES
	SS STL	STAINLESS STEEL STEEL	
•	TOC	TOP OF CONCRETE TOP OF MASONRY	SHEET NUMBER
$\mathbf{\lambda}$	TYP	TYPICAL VERIFY IN FIELD	∣ N-1 ∣
A-3	UON WWF	UNLESS OTHERWISE NOTED WELDED WIRE FABRIC	
-	WWF W/	WITH	



GENERAL SITE NOTES

1. SITE INFORMATION WAS OBTAINED FROM A FIELD INVESTIGATION PERFORMED BY ATLANTIS DESIGN GROUP, INC. CONTRACTOR TO FIELD VERIFY DIMENSIONS AS NECESSARY BEFORE CONSTRUCTION.

2. THE PROPOSED DEVELOPMENT DOES NOT INCLUDE SIGNS OF ADVERTISING.

3. THE PROPOSED DEVELOPMENT IS UNMANNED AND THEREFORE DOES NOT REQUIRE A MEANS OF WATER SUPPLY OR SEWAGE DISPOSAL.

4. NO LANDSCAPING WORK IS PROPOSED IN CONJUNCTION WITH THIS DEVELOPMENT OTHER THAN THAT WHICH IS

5. THE PROPOSED DEVELOPMENT DOES NOT INCLUDE OUTDOOR STORAGE OR ANY SOLID WASTE RECEPTACLES.

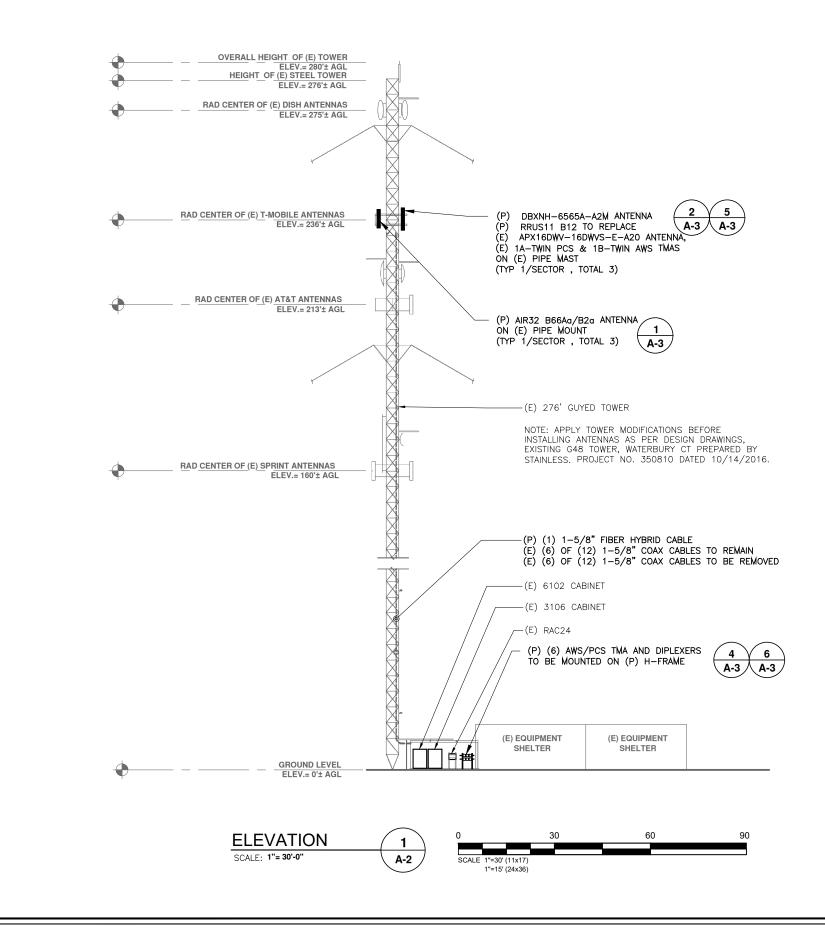
6. UTILITIES SHOWN ON PLAN ARE TAKEN FROM OWNERS RECORDS AND FIELD LOCATION OF VISIBLE SURFACE FEATURES. THE EXISTENCE, EXTENT AND EXACT HORIZONTAL AND VERTICAL LOCATIONS OF UTILITIES HAS NOT BEEN VERIFIED. ANY CONTRACTOR PERFORMING WORK ON THIS SITE MUST CONTACT CALL BEFORE YOU DIG THREE WORKING DAYS PRIOR TO COMMENCING WORK.

7. All obsolete or unused facilities shall be Removed Within 12 Months of Cessation of Operations.

SITE LEGEND

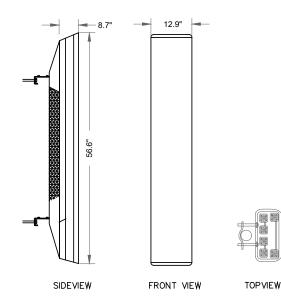
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a	BOARD ON BOARD FENCE
<u>i</u>	DECIDUOUS TREES/SHRUBS
	EVERGREEN TREES/SHRUBS
	TREE LINE
×	UTILITY POLE
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	EX. UMTS ANTENNA

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Ph	HZZ & 82-88; 4/937; TLANTIS DESIGN GROUP, INC. 3210 MAIN CAMPUS DRIVE LEXINGTON, MA 02421 Phone number: 617–852–3611 Fax Number : 781–742–2247			
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	SITE NUMBER CTNH305B			
NH3	SITE NAME NH305/CHANNEL 20_ET			
SITE ADDRESS 103 EAST SIDE BLVD AKA CLARK HILL ROAD NAUGATUCK, CT 06770				
SHEET TITLE				
SITE PLAN				
SHEET NUMBER				
A-1				
	-	•	-	



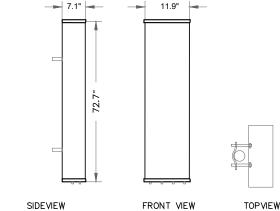
REFER TO "RIGOROUS STRUCTURAL ANALYSIS – FOR A 276' STAINLESS G-48 GUYED TOWER – WATERBURY, CT PREPARED BY STAINLESS – A BUSINESS OF FDH VELOCITEL, REPORT NUMBER 350810" DATED OCTOBER 21, 2016, AND DESIGN DRAWINGS, EXISTING G48 TOWER, WATERBURY CT PREPARED BY STAINLESS. PROJECT NO. 350810 DATED 10/14/2016 T VORUS STELE D CTNUA3058 10/14/2016. T-MOBILE SITE ID CTNH305B.

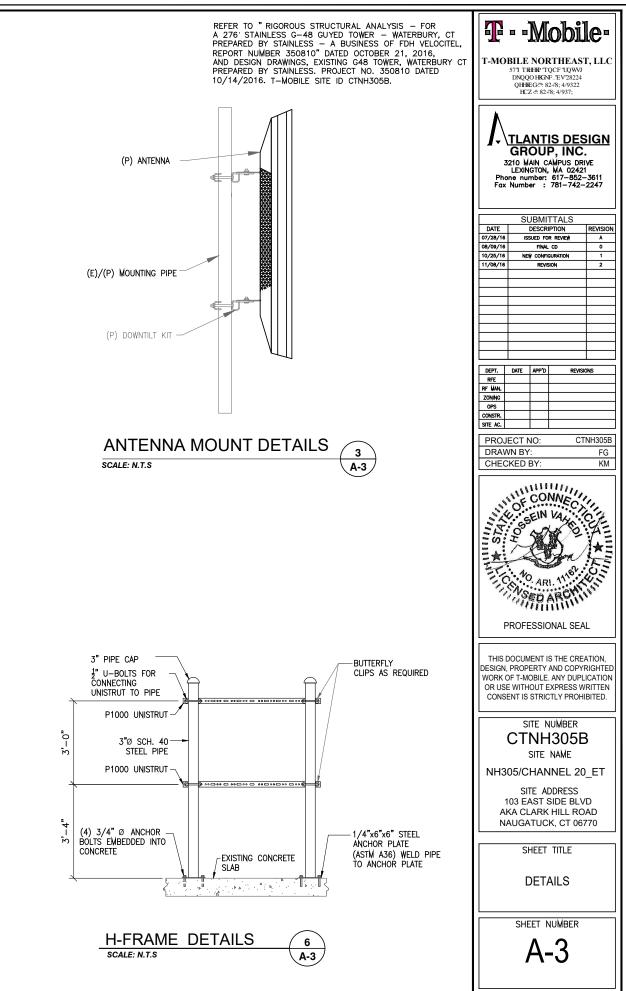




MANUFACTURER: ERICSSON MODEL NO.:ERICSSON AIR32 AIR32 B66Aa/B2a DIMENSIONS - HxWxD, (IN) 56.6"x12.9"x8.7"







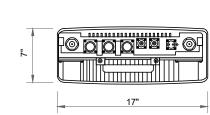
MANUFACTURE: COMMSCOPE MODEL NO. DBXNH-6565B-VTM / DBXNH-6565B-A2M DIMENSIONS - HxWxD, (IN) 72.7x11.9x7.1 WEIGHT – 33.5 LB

<u>2</u>

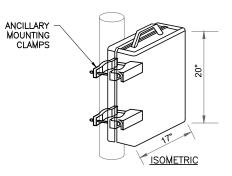
A-3

COMMSCOPE DBXNH-6565B-A2M

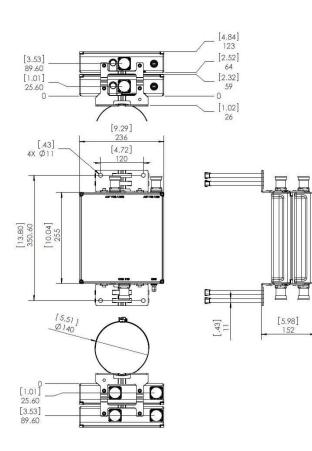




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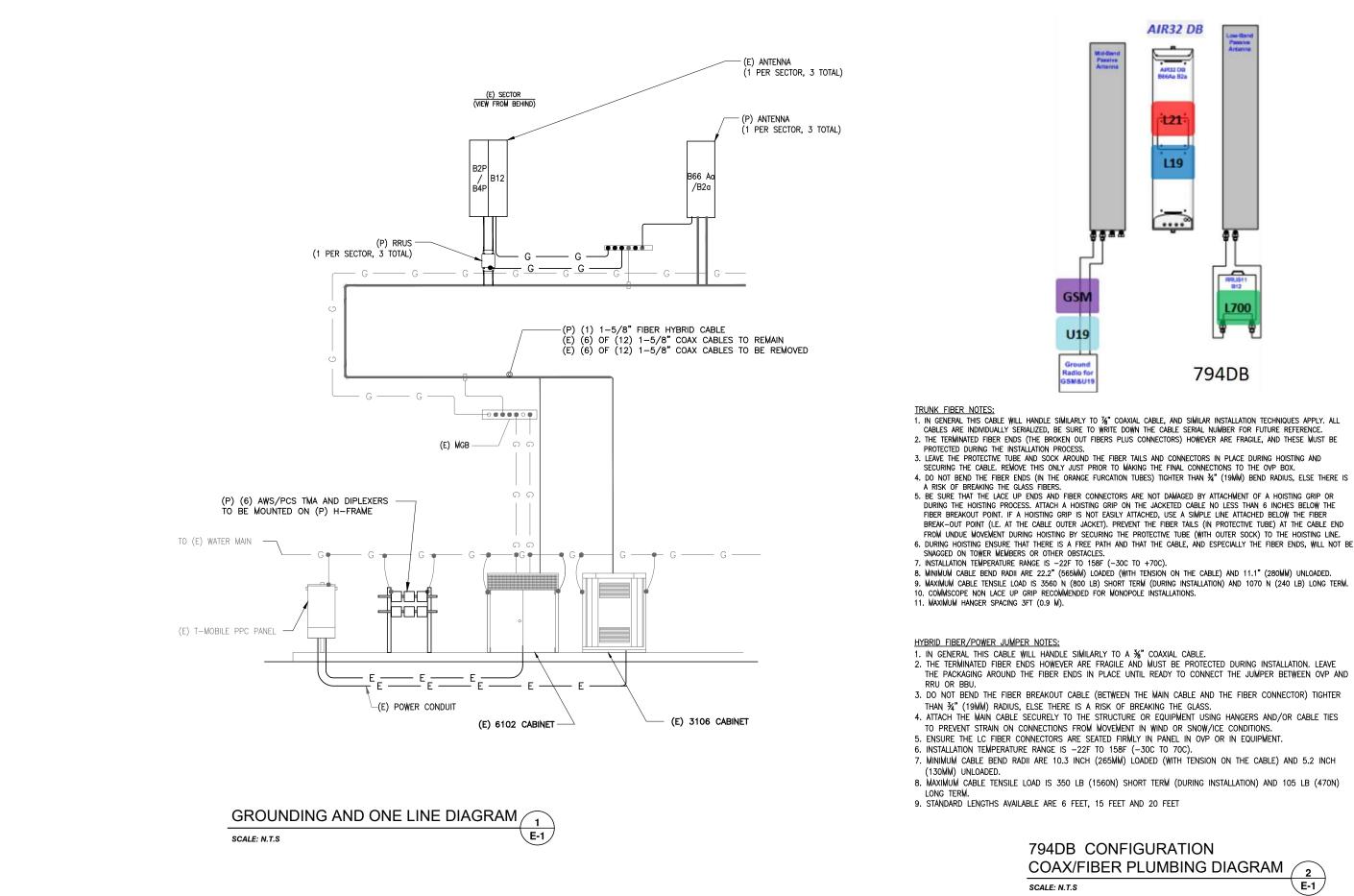




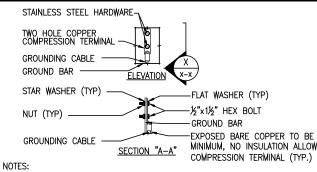
DUAL DIPLEXED PCS/AWS TMA DETAILS SCALE: N.T.S



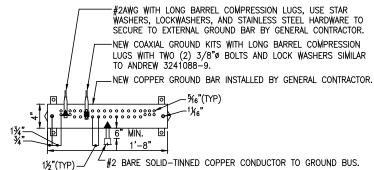




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3 Pho Fax	HCZ-& 8248; 4/9372 HCZ-& 8248; 4/937; TLANTIS DESIGN GROUP, INC. 3210 MAIN CAMPUS DRIVE LEXINGTON, MA 02421 Phone number: 617–852–3511 Fox Number : 781–742–2247			
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THIS DOCUMENT IS THE CREATION, DESIGN, PROPERTY AND COPYRIGHTED WORK OF T-MOBILE. ANY DUPLICATION OR USE WITHOUT EXPRESS WRITTEN CONSENT IS STRICTLY PROHIBITED.				
SITE NUMBER CTNH305B SITE NAME				
NH305/CHANNEL 20_ET				
SITE ADDRESS 103 EAST SIDE BLVD AKA CLARK HILL ROAD NAUGATUCK, CT 06770				
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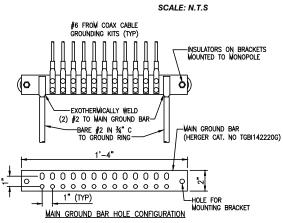


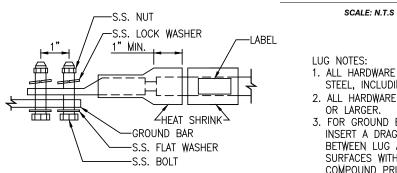
1. OXIDE INHIBITING COMPOUND TO BE USED AT ALL LOCATIONS.



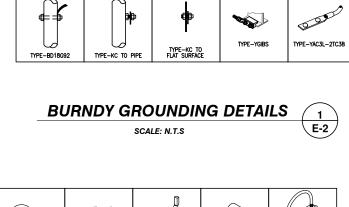
- NOTES:
- 1. ALL HARDWARE STAINLESS STEEL COAT ALL SURFACES WITH KOPR-SHIELD BEFORE MATING.
- 2. FOR GROUND BOND TO STEEL ONLY: INSERT A TOOTH WASHER BETWEEN LUG AND STEEL, COAT ALL SURFACES WITH KOPR-SHIELD.
- 3. ALL HOLES ARE COUNTERSUNK 1/6".

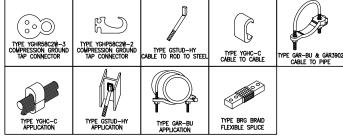
TYPICAL GROUND BAR CONNECTIONS DETAIL



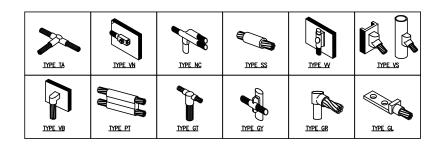


SCALE: N.T.S

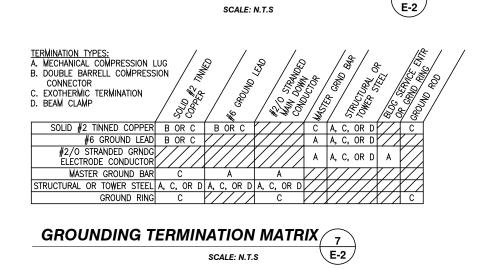








CADWELD GROUNDING CONNECTION PRODUCTS



3

-EXPOSED BARE COPPER TO BE KEPT TO ABSOLUTE MINIMUM, NO INSULATION ALLOWED WITHIN THE



GROUND BAR DETAIL E-2 /

1. ALL HARDWARE IS 18-8 STAINLESS STEEL, INCLUDING LOCK WASHERS. 2. ALL HARDWARE SHALL BE S.S. 3/4" ø

3. FOR GROUND BOND TO STEEL ONLY: INSERT A DRAGON TOOTH WASHER BETWEEN LUG AND STEEL. COAT ALL SURFACES WITH ANTI-OXIDIZATION COMPOUND PRIOR TO MATING.



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THIS DOCUMENT IS THE CREATION, DESIGN, PROPERTY AND COPYRIGHTED WORK OF T-MOBILE. ANY DUPLICATION OR USE WITHOUT EXPRESS WRITTEN CONSENT IS STRICTLY PROHIBITED.				
site NUMBER CTNH305B site NAME				
NH305/CHANNEL 20_ET SITE ADDRESS				
103 EAST SIDE BLVD AKA CLARK HILL ROAD NAUGATUCK, CT 06770				
SHEET TITLE				
GROUNDING DETAILS				
SHEET NUMBER				
E-2				

Exhibit D



A BUSINESS OF FDH VELOCITEL

REPORT 350810

DATE: 10/21/2016

RIGOROUS STRUCTURAL ANALYSIS

FOR A 276øSTAINLESS G-48 GUYED TOWER

WATERBURY, CT

PREPARED BY:

APPROVED: DDA

CHECKED BY:

PCC

AP



Date	Pages	Remarks

STAINLESS – A BUSINESS OF FDH VELOCITEL Table of Contents

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Rev.	Date	Description

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<u>PAGE</u>

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B.	TOWER HISTORY	.1
C.	CONDITIONS INVESTIGATED	.3
D.	LOADS AND STRESSES	.4
E.	METHOD OF ANALYSIS	.5
F.	RESULTS	.5
G.	CONCLUSIONS AND RECOMMENDATIONS	.6
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<u>APPENDIX</u>

GENERAL ARRANGEMENT	E-1
LINEAR APPURTENANCES	A-2



Rev. Date Description

A. <u>AUTHORIZATION/PURPOSE</u>

As authorized by Sheldon Freincle of Northeast Site Solutions LLC, a structural analysis was r gthqto gf "vq"kpxguki cvg"yj g"cf gs wce{"qh"c"498ø'i w{gf "vqy gt "kp"Y cvgtdwt{."EV"vq"uwr r qtv specified equipment.

B. TOWER HISTORY

The tower was originally designed and furnished in 1991 by Stainless, Inc. It was designed in accordance with ANSI/EIA-222-D for a basic wind speed of 80 mph with no ice and 69.3 mph y kj '314ö'qh'wpkqto 'tcf kcnkeg'y j kg'uwr qt kpi 'y g'hqmqy kpi 'gs wr o gpv<

- Ukzv{ "*82+\u00edus wctg'hggv\qhhncv\y kpf 'ctgc'cv\y g'493\u00f8hgxgn\cpf '42\u00f6'y kf y 'qhhkpgct'y kpf 'ctgc'\q y g'498\u00f8hgxgn0
- 2. Two (2) Andrew HMD16HD TV antennas, top mounted, fed by one (1) 1-71: ö'hpg'\q'gcej antenna.
- 3. Hqwt"*6+": ø'r ctcdqnle" cpvgppcu" y kj "tcf qo gu"cv' yj g"493ø'rgxgn" hgf "d{"qpg"*3+"GY "99 waveguide to each antenna (future).
- 4. Vy q"*4+": ø'r ctcdqnle" cpvgppcu" y kj "tcf qo gu" cv' yj g"443ø level, fed by one (1) EW 77 waveguide to each antenna.
- 5. Vy q"*4+"8ø'r ctcdqnle"cpvgppcu"y kj "tcf qo gu"cv' yj g"438ø'rgxgn"hgf "d{"qpg"*3+"GY "99 waveguide to each antenna.
- 6. Vy q'*4+'8ø'O ctmli tkf 'f kuj gu'cv'y g'343ø'ıgxgn'hgf 'd{ "qpg'*3+'91: ö'hkpg'vq'gcej "cpvgppc0
- 7. Ty q"*4+"6ø'r ctcdqrle"cpvgppcu"y kj "tcf qo gu"cv'y g"328ø'rgxgn"hgf "d{"qpg"*3+"GY "349 waveguide to each antenna.
- 8. Vy q'*4+'3: ö'f kuj gu'cv'y g'333ø'ngxgn'hgf 'd{ "qpg'*3+'TI 7; 'hpg'vq''gcej 'cpvgppc0
- 9. Vy q'*4+'46ö'f kuj gu'cv'y g'328ø'rgxgn'hgf 'd{ "qpg'*3+'TI 7; 'hkpg''q each antenna.
- 10. Hqwt"*6+"6ø'r ctcdqrle"cpvgppcu"y kj "tcf qo gu"cv"y g"323ø'rgxgn"hgf "d{"qpg"*3+"GY "349 waveguide to each antenna.
- 11. Vy q"*4+"6ø'r ctcdqrle" cpvgppcu"y kj "tcf qo gu"cv"y g"; 8ø'rgxgn"hgf "d{"qpg"*3+"GY "349 waveguide to each antenna.
- 12. One (1) inside climbing ladder with cable type safety device for the full height of the tower.

In 2005, the tower was modified by Paul J. Ford and Company. The scope of the modifications was obtained from:

-) Dewberry drawing titled +O qf kHgf '498ø'I w{gf 'Vqy gr, Sheet S-3ø'f cvgf 06/14/2005.
- Stainless LLC Report No. 350802 dated 11/2005, providing connection assembly material for the Level 3 guy replacement.

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The modifications were as follows:

- a. Replaced existing 1/2" EHS guys at Level 3 with new 9/16" EHS guy wires.
- b. Adjusted initial guy tensions in all guy levels.
- c. Replaced existing diagonal braces with new higher capacity members at the following bays:

Location	No. of bays		
141.0' – 193.0'	13		

The tower was modified per Stainless LLC Report 350804 dated 04/05/2013, and the modifications were as follows:

- a. Replaced existing 9/16" EHS guys at Level 2 with new 5/8" EHS guy wires.
- b. Installed concrete thrust blocks in front of each anchor and connected the blocks to the anchor arms to resist anchor arm bending.
- c. Adjusted initial guy tensions in all guy levels.

The tower was analyzed per Stainless Report 350806 dated 6/25/2016, and tower modification design drawings prepared per Stainless Design Drawings Report 350807 dated 7/18/2016. The modifications consisted of the following. These modifications have not been installed.

- a. Replace existing guy wires at Levels 1 (bottom) and 2 with new higher capacity guy wires.
- b. Adjust initial tensions in all guy levels.
- c. Install additional horizontal sub-bracing members at the midpoints of the following bays:

Location	No. of bays
153.0' – 185.0'	8
5.0' - 133.0'	32

d. Replace or reinforce existing diagonal braces with new higher capacity members at the following bays:

Location	No. of bays
129.0' – 149.0'	5
45.0' - 77.0'	8

The tower was analyzed per Stainless Report 350809 dated 10/3/2016 and tower modifications were recommended. These modifications are assumed to have been installed for the purpose of this analysis and consist of the following:

- a. Replace existing guy wires at Levels 1 (bottom) and 2 with new higher capacity guy wires.
- b. Adjust initial tensions in all guy levels.
- c. Install additional horizontal sub-bracing members at the midpoints of the following bays:

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Location	No. of bays
125.0' – 129.0'	1
5.0' - 105.0'	25

d. Replace or reinforce existing diagonal braces with new higher capacity members at the following bays:

Location	No. of bays
129.0' – 145.0'	4
45.0' - 73.0'	7

C. <u>CONDITIONS INVESTIGATED</u>

The analysis was performed for the tower supporting equipment based upon the following sources:

- Stainless Proposal P16_350809_001 dated 10/18/2016.
- Stainless Report 350809 dated 10/3/2016.
- CTNH305B-L700-RFDS 9-16-16
- Email from Sheldon Freincle dated 10/2/2016 with details of proposed equipment.
- 1. One (1) 6' x 6' ice shield at the 274' level.
- 2. One (1) 6' x 6' ice shield at the 270' level.
- 3. Two (2) 6' diameter MW dish antennas with radome at the 264' level, fed by two (2) EW63 to each.
- 4. One (1) 12' torque triangle at the 261' level.
- 5. One (1) Scala grid dish antenna at the 254' level, fed by one (1) 7/8" line.
- 6. Three (3) DBXNH-6565A-A2M antennas, three (3) KRD901146/1AIR32 B66Aa/B2a antennas, three (3) RRUS11 B12 on three (3) frame mounts at the 236' level, fed by six (6) 1-5/8" lines and one (1) 1-5/8" hybrid cable. (**Proposed**)
- Three (3) RFS APXVSPP18-C-A20 antennas, four (4) EMS FS65-17-DP antennas, six (6) 1900 MHz RRH units, three (3) 1900 RRH combiners and three (3) 800 MHz RRH with notch fillers on three (3) frame mounts at the 208' level, fed by twelve (12) 1-5/8" lines and three (3) 1-1/4" hybrid cables.
- 8. One (1) 12' torque triangle at the 201' level.
- 9. One (1) 18" x 24" dish antenna at the 196' level, fed by one (1) 1/2" fiber optic cable.
- 10. One (1) 6' x 6' ice shield at the 172' level.
- 11. One (1) Mark 4' diameter grid dish antenna at the 164' level, fed by one (1) RG-6 cable.
- 12. One (1) 4-bay dipole antenna at the 162' level, fed by one (1) 7/8" line.
- Six (6) Powerwave 7770.00 panel antennas, two (2) KMW AM-X-CD-16-65 panel antennas, one (1) SBNH-1D6565C antenna, six (6) Ericsson RRUS-11 remote radio units, six (6) KRY 112 units, six (6) Powerwave LGP13519 units and one (1) RA YCAP DC6-48-60-18-8F surge arrestor on three (3) frame mounts at the 152' level, fed by

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twelve (12) existing 1-5/8" lines and two (2) 5/8" DC conductor cables and one (1) 3/8" fiber cable.

- 14. One (1) DB222-A antenna on a side arm mount at the 115' level, fed by one (1) 7/8" line. (Future)
- 15. One (1) 1-1/2" conduit to the top of the tower with 12" x12" x 6" junction boxes at the 10', 94', 188' and 276' levels. (Future)
- 16. One (1) wind gage and weather device at the 56' level, fed by one (1) 1/8" cable.
- 17. One (1) temperature sensor at the 20' level, fed by one (1) 1/8" cable.
- 18. One (1) 3/8" grounding cable to the 236' level.
- 19. One (1) inside climbing ladder with safety cable for the full height of the tower.

The locations of the transmission lines are based on the tower cross section shown in Stainless Report 350809 dated 10/3/2016. The locations of all the transmission lines are shown on page A-2 of this report. Deviating from this appurtenance arrangement may invalidate the results presented in this report.

D. LOADS AND STRESSES

The analysis was performed using the following design parameters in accordance with the 2012 IBC and ANSI/TIA 222-G-2005, <u>Structural Standard for Antenna Supporting Structures and Antennas</u>, including addenda 1 and 2 dated 2007 and 2009 respectively:

Structure Classification II
121 mph ultimate design wind speed with no ice
50 mph nominal design wind speed with 3/4" design ice thickness
Exposure Category B
Topographic Category 5 (H=360', 2Lh=2880' and x=370')
0.25 earthquake spectral response acceleration at short periods (S_s)
Earthquake Site Class D

The ultimate design wind speed is converted to a nominal design wind speed for use in ANSI/TIA 222-G based upon the following formula:

 $V_{asd} = V_{ult} * (0.6)^{1/2}$ = 121 * (0.6)^{1/2} = 93.7 mph, use 94 mph

The tower is located near the top of an escarpment and subject to speed-up in the wind speed. In accordance with Section 2.6.6.1 of ANSI/TIA 222-G, wind speed-up effects at isolated hills, ridges and escarpments shall be taken into account in analyzing towers located on such topographic features. A topographic category of 5 was used in this analysis and the enhanced wind speeds were calculated using RSM-03 by the Structural Engineers Association of Washington (SEAW). The increase in the basic wind speed will be most pronounced at the lower portion of the tower and decreases along the height of the tower.

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Seismic effects need not be considered as the value of Ss is less than 1.0 per Section 2.7.3 of ANSI/TIA 222-G. Load and resistance factors used to evaluate the adequacy of the structure were in accordance with ANSI/TIA 222-G.

E. <u>METHOD OF ANALYSIS</u>

The analysis was performed using tnxTower, a computerized program which idealizes the tower as a structure consisting of finite elements, and subjected to simultaneous transverse and axial loads.

F. <u>RESULTS</u>

The results of the analysis show the following ratings:

LOCATION	SPAN	RATING %
	Cantilever	13
	4	95
Leg compression	3	98
Ē	2	100
	1	74
	Cantilever	6
	4	22
Leg tension	3	15
	2	
	1	
	Cantilever	23
	4	65
Diagonals	3	99
	2	100
	1	81
	Cantilever	14
Horizontals	4	28
Horizontais	3	51
	2	38
	1	26
	4	66
Guye	3	85
Guys	2	89
	1	84
Foundations	Tower base	95
roundations	Guy anchors	85

The maximum acceptable rating for the tower and foundations is 100%.

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Description

G. CONCLUSIONS AND RECOMMENDATIONS

Based on the preceding results, the following conclusions may be drawn:

- 1. The tower, supporting equipment as specified in Section C above and with all the proposed modifications of Stainless Report 350809 dated 10/3/2016 installed, is adequate to achieve an ultimate design wind speed of 121 mph with no ice, and a nominal design wind speed of 50 mph with 3/4" design ice thickness in accordance with the 2012 IBC, and ANSI/TIA 222-G with the analysis parameters of Section D.
- After the modifications are completed, the tower twist and sway at the elevations of the 2. proposed dish under a service wind speed of 60 mph are as follows:

Dish	Elevation, ft.	Twist, degrees	Sway, degrees
6' MW Dish	264	0.07	0.11
4' Grid Dish	164	0.15	0.08

H. PROVISIONS OF ANALYSIS

The analysis performed and the conclusions contained herein are based on the assumption that the tower has been properly installed and maintained, including, but not limited to the following:

- 1. Proper alignment and plumbness.
- 2. Correct guy tensions.
- 3. Correct bolt tightness.
- No significant deterioration or damage to any component. 4.

Furthermore, the information and conclusions contained in this Report were determined by application of the current "state-of-the-arts" engineering and analysis procedures and formulae, and Stainless assumes no obligations to revise any of the information or conclusions contained in this Report in the event that such engineering and analysis procedures and formulae are hereafter modified or revised. In addition, under no circumstances will Stainless have any obligation or responsibility whatsoever for or on account of consequential or incidental damages sustained by any person, firm or organization as a result of any information or conclusions contained in the Report, and the maximum liability of Stainless, if any, pursuant to this Report shall be limited to the total funds actually received by Stainless for preparation of this Report.

Customer has requested Stainless to prepare and submit to Customer an engineering analysis with respect to the Subject Tower and has further requested Stainless to make appropriate recommendations regarding suggested structural modifications and changes to the Subject Tower. In making such request of Stainless, Customer has informed Stainless that Customer will make a determination as to whether or not to implement any of the changes or modifications which may be suggested by Stainless and that Customer will have any such changes or modifications made by riggers, erectors and other subcontractors of Customer's choice.

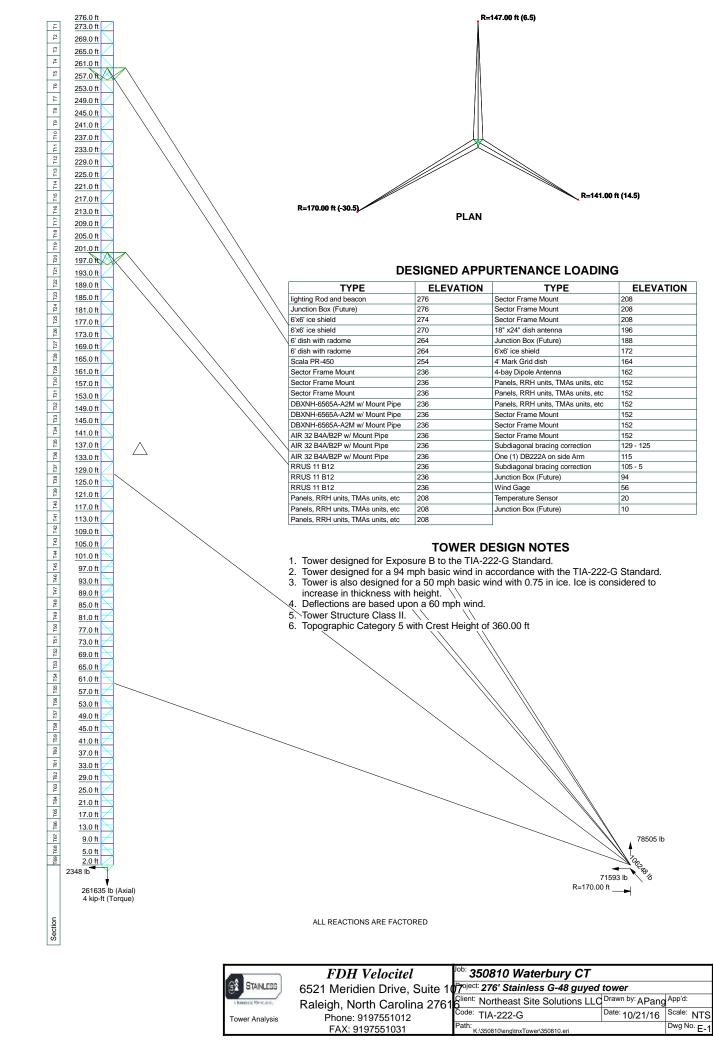
STAINLESS A BUSINESS OF FDH VELOCITEL

Page No. 7 Report No. 350810

Rev. Date

Description

Customer hereby agrees and acknowledges that Stainless shall have no liability whatsoever to Customer or to others for any work or services performed by any persons other than Stainless in connection with the implementation of any structural changes or modifications recommended by Stainless including but not limited to any services rendered for Customer or for others by riggers, erectors or other subcontractors. Customer acknowledges and agrees that any riggers, erectors or subcontractors retained or employed by Customer shall be solely responsible to Customer and to others for the quality of work performed by them and that Stainless shall have no liability or responsibility whatsoever as a result of any negligence or breach of contract by any such rigger, erector or subcontractor.



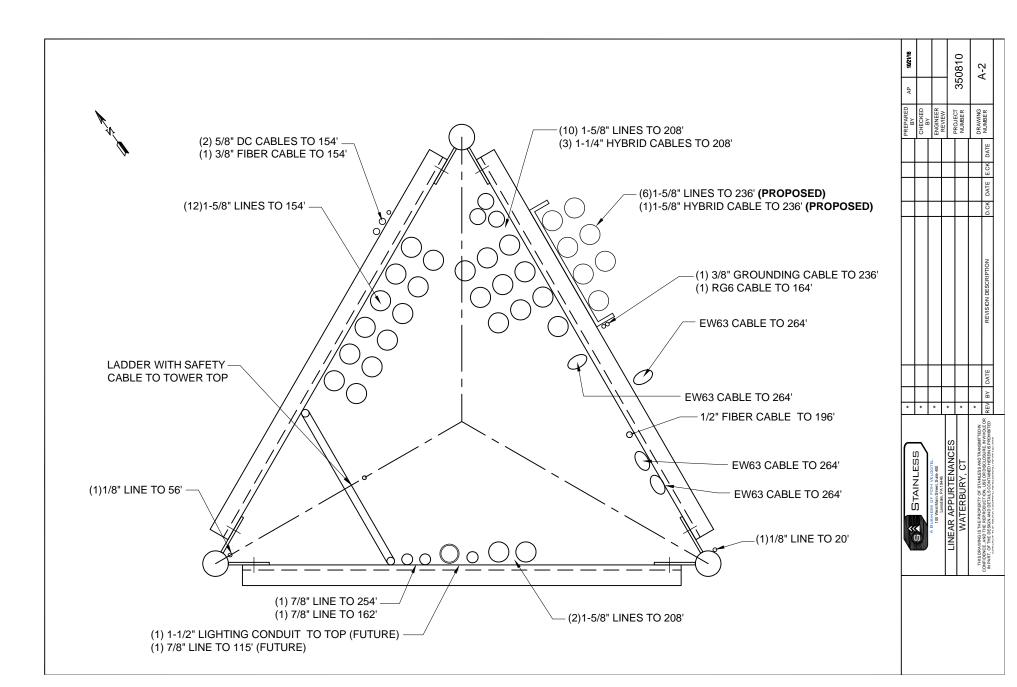


Exhibit E



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

T-Mobile Existing Facility

Site ID: CTNH305B

NH305/Channel 20_ET 103 East Blvd AKA Clark Hill Road Naugatuck, CT 06770

October 27, 2016

EBI Project Number: 6216004903

Site Compliance Summary			
Compliance Status:	COMPLIANT		
Site total MPE% of FCC general public allowable limit:	2.54 %		



October 27, 2016

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

Emissions Analysis for Site: CTNH305B - NH305/Channel 20_ET

EBI Consulting was directed to analyze the proposed T-Mobile facility located at **103 East Blvd AKA Clark Hill Road, Naugatuck, CT**, 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.

<u>General population/uncontrolled exposure</u> limits apply to situations in which the general public 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 public 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 limit for the 700 MHz Band is approximately 467 μ W/cm², and the general population exposure limit for the 1900 MHz (PCS) and 2100 MHz (AWS) 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.



<u>Occupational/controlled exposure</u> 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 this 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 **103 East Blvd AKA Clark Hill Road, Naugatuck, CT**, 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 manufactures supplied specifications, minus 10 dB, 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) 2 GSM channels (PCS Band 1900 MHz) were considered for each sector of the proposed installation. These Channels have a transmit power of 30 Watts per Channel.
- 2) 2 UMTS channels (PCS Band 1900 MHz) were considered for each sector of the proposed installation. These Channels have a transmit power of 30 Watts per Channel.
- 3) 2 UMTS channels (AWS Band 2100 MHz) were considered for each sector of the proposed installation. These Channels have a transmit power of 30 Watts per Channel.
- 4) 2 LTE channels (PCS Band 1900 MHz) were considered for each sector of the proposed installation. These Channels have a transmit power of 60 Watts per Channel.
- 5) 2 LTE channels (AWS Band 2100 MHz) were considered for each sector of the proposed installation. These Channels have a transmit power of 60 Watts per Channel
- 6) 1 LTE channel (700 MHz Band) was considered for each sector of the proposed installation. This channel has a transmit power of 30 Watts.



- 7) Since all 1900 MHz radios are ground mounted there are additional cabling losses accounted for in the calculations. For each ground mounted 1900 MHz RF path an additional 2.83 dB of cable loss was factored into the calculations for these paths. This is based on manufacturers Specifications for 275 feet of 1-5/8" coax cable on each path.
- 8) 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.
- 9) 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 manufactures supplied specifications minus 10 dB 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.
- 10) The antennas used in this modeling are the Ericsson AIR32 B66Aa/B2A & Commscope DBXNH-6565A-VTM for 700 MHz, 1900 MHz (PCS) and 2100 MHz (AWS). This is based on feedback from the carrier with regards to anticipated antenna selection. The Ericsson AIR32 B66Aa/B2A has a maximum gain of 15.9 dBd at its main lobe at 1900 MHz and 2100 MHz. The Commscope DBXNH-6565A-VTM has a maximum gain of 15.5 dBd at its main lobe at 1900 MHz and 2100 MHz are a maximum gain of 11.3 dBd at its main lobe at 1900 MHz. The maximum gain of the antenna per the antenna manufactures supplied specifications, minus 10 dB, 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.
- 11) The antenna mounting height centerline of the proposed antennas is **236 feet** above ground level (AGL).
- 12) 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.
- 13) All calculations were done with respect to uncontrolled / general public threshold limits.



T-Mobile Site Inventory and Power Data

Sector:	А	Sector:	В	Sector:	С
Antenna #:	1	Antenna #:	1	Antenna #:	1
Make / Model:	Ericsson AIR32 B66Aa/B2A	Make / Model:	Ericsson AIR32 B66Aa/B2A	Make / Model:	Ericsson AIR32 B66Aa/B2A
Gain:	15.9 dBd	Gain:	15.9 dBd	Gain:	15.9 dBd
Height (AGL):	236	Height (AGL):	236	Height (AGL):	236
Frequency Bands	1900 MHz(PCS) / 2100 MHz (AWS)	Frequency Bands	1900 MHz(PCS) / 2100 MHz (AWS)	Frequency Bands	1900 MHz(PCS) / 2100 MHz (AWS)
Channel Count	4	Channel Count	4	Channel Count	4
Total TX Power(W):	240	Total TX Power(W):	240	Total TX Power(W):	240
ERP (W):	9,337.08	ERP (W):	9,337.08	ERP (W):	9,337.08
Antenna A1 MPE%	0.63	Antenna B1 MPE%	0.63	Antenna C1 MPE%	0.63
Antenna #:	2	Antenna #:	2	Antenna #:	2
Make / Model:	Commscope DBXNH-6565A- VTM	Make / Model:	Commscope DBXNH-6565A- VTM	Make / Model:	Commscope DBXNH-6565A- VTM
Gain:	15.5 / 11.3 dBd	Gain:	15.5 / 11.3 dBd	Gain:	15.5 / 11.3 dBd
Height (AGL):	236	Height (AGL):	236	Height (AGL):	236
Frequency Bands	1900 MHz(PCS) / 2100 MHz (AWS) / 700 MHz	Frequency Bands	1900 MHz(PCS) / 2100 MHz (AWS) / 700 MHz	Frequency Bands	1900 MHz(PCS) / 2100 MHz (AWS) / 700 MHz
Channel Count	7	Channel Count	7	Channel Count	7
Total TX Power(W):	210	Total TX Power(W):	210	Total TX Power(W):	210
ERP (W):	4,752.69	ERP (W):	4,752.69	ERP (W):	4,752.69
Antenna A2 MPE%	0.36	Antenna B2 MPE%	0.36	Antenna C2 MPE%	0.36

Site Composite MPE%			
Carrier	MPE%		
T-Mobile (Per Sector Max)	0.99 %		
Prospect Police	0.03 %		
AT&T	1.45 %		
Sprint	0.07 %		
Site Total MPE %:	2.54 %		

T-Mobile Sector A Total:	0.99 %
T-Mobile Sector B Total:	0.99 %
T-Mobile Sector C Total:	0.99 %
Site Total:	2.54 %

T-Mobile _per sector	# Channels	Watts ERP (Per Channel)	Height (feet)	Total Power Density (µW/cm ²)	Frequency (MHz)	Allowable MPE (µW/cm²)	Calculated % MPE
T-Mobile AWS - 2100 MHz LTE	2	2,334.27	236	3.17	AWS - 2100 MHz	1000	0.32%
T-Mobile PCS - 1900 MHz LTE	2	2,334.27	236	3.17	PCS - 1900 MHz	1000	0.32%
T-Mobile AWS - 2100 MHz UMTS	2	1,064.44	236	1.45	AWS - 2100 MHz	1000	0.14%
T-Mobile PCS - 1950 MHz UMTS	2	554.78	236	0.75	PCS - 1950 MHz	1000	0.08%
T-Mobile PCS - 1950 MHz GSM	2	554.78	236	0.75	PCS - 1950 MHz	1000	0.08%
T-Mobile 700 MHz LTE	1	404.69	236	0.28	700 MHz	467	0.06%
						Total:	0.99%



Summary

All calculations performed for this analysis yielded results that were **within** the allowable limits for general public 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 public exposure to RF Emissions are shown here:

T-Mobile Sector	Power Density Value (%)
Sector A:	0.99 %
Sector B:	0.99 %
Sector C:	0.99 %
T-Mobile Per Sector	0.99 %
Maximum:	0.99 %
Site Total:	2.54 %
Site Compliance Status:	COMPLIANT

The anticipated composite MPE value for this site assuming all carriers present is **2.54%** of the allowable FCC established general public 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.