

KENNETH C. BALDWIN

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Also admitted in Massachusetts
and New York

April 15, 2021

Via Electronic Mail

Melanie A. Bachman, Esq.
Executive Director/Staff Attorney
Connecticut Siting Council
10 Franklin Square
New Britain, CT 06051

Re: **Notice of Exempt Modification – Facility Modification
302 Ball Pond Road, New Fairfield, Connecticut**

Dear Attorney Bachman:

Cellco Partnership d/b/a Verizon Wireless (“Cellco”) currently maintains twelve (12) antennas at the 123-foot level of the existing 175-foot tower adjacent to the New Fairfield Volunteer Fire Department at 302 Ball Pond Road in New Fairfield, Connecticut (the “Property”). The tower and underlying property are owned by the Town of New Fairfield. In 2002, the Town of New Fairfield Zoning Commission approved the tower. According to the Siting Council database, the Siting Council approved Cellco’s use of the tower in 2007. (A copy of the Siting Council’s tower share approval is not available on the Council’s database). Copies of the Town’s permits and approvals are included in [Attachment 1](#).

Cellco now intends to modify its facility by adding six (6) antenna cables inside the monopole tower. A set of project plans showing Cellco’s proposed facility modifications and Cellco’s new antenna cable specifications are included in [Attachment 2](#).

Please accept this letter as notification pursuant to R.C.S.A. § 16-50j-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. § 16-50j-73, a copy of this letter is being sent to New Fairfield’s First Selectman, Patricia Del Monaco; and Evan White, New Fairfield’s Zoning Enforcement Officer.

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

Melanie A. Bachman, Esq.

April 15, 2021

Page 2

1. The proposed modifications will not result in an increase in the height of the existing tower.
2. The proposed modifications will not involve any change to ground-mounted equipment and, therefore, 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 installation of Cellco's additional antenna cables will not result in an increase to radio frequency (RF) emissions at the facility to a level at or above the Federal Communications Commission (FCC) safety standard.
5. The proposed modifications will not cause a change or alteration in the physical or environmental characteristics of the site.

The tower and foundation can support Cellco's proposed modifications. A Structural Analysis Report for the Ball Pond Road tower is included in Attachment 3.

A copy of the parcel map and Property owner information is included in Attachment 4. A Certificate of Mailing verifying that this filing was sent to municipal officials is included in Attachment 5.

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

Sincerely,



Kenneth C. Baldwin

Enclosures

Copy to:

Patricia Del Monaco, New Fairfield First Selectman
Evan White, New Fairfield Enforcement Officer
Aleksey Tyurin

Attachment 1



The Planning Commission

Town of New Fairfield
New Fairfield, Connecticut 06812

Regular Meeting
Monday, March 25, 2002
Town Hall Conference Room, 7:30pm

MINUTES - REVISED

Commissioners Present: Jim Piskura, Ron Stoddard, Chris Gould, Dale Holly

Alternates Present: Jim Mitchell, Joe Longo

Staff Present: Jeannine Fitzgerald

Commissioners Absent: Bill DiTullio, Mike Verrico

Call to Order: 7:37 pm

Appt of Alternates

Chris Gould made motion to elevate Jim Mitchell to full voting status. Seconded by Dale Holly.

Approval of Minutes:

Dale Holly made motion to accept Feb 25th minutes as is. Chris Gould seconded. All in favor.

Dale Holly made motion to accept Mar 11th special minutes. Chris Gould seconded. All in favor. Ron Stoddard abstained.

Correspondence/Announcements:

1. Email from Tony Iadarola re: updates, etc.
2. Email from Tony March 24, 2002 re: Pine Hill
3. Email from Jeannine re: vacation next month. Need someone to take care of agenda, minutes, legal notices and votes.

Jim Piskura will not be at the April 8, 2002 Planimetrics meeting at 7pm.
Jeannine to republish the notice again in CN for next Weds. April 3rd.

OLD BUSINESS

Chelsea Drive - waiting for correspondence
Sonneborn Estates - pending
Pine Hill Subdivision- pending

NEW BUSINESS

Communication Tower - 302 Ball Pond Road Referral
Location is behind Fire House & Police Station
Russ Strilowich, Chairman of the Permanent Building Committee present.

8.24 Referral to Zoning sought

>Chris Gould made motion to grant a positive referral to the PBC. Dale Holly seconded. All in favor.



The Planning Commission

Town of New Fairfield
New Fairfield, Connecticut 06812

MEMO

TO: Permanent Building Committee
FROM: Jeannine Fitzgerald
RE: Referral for Amendment to Zoning Regulations
DATE: March 26, 2002

The Planning Commission of New Fairfield granted a positive referral to the Communication Tower at 302 Ball Pond Road.

Call me or Jim Piskura at 746-1180 if you have any questions.

cc: Jim Piskura
Maria Haussherr-Hughes
First Selectman's Office

Hand Delivered to Mail Box



TOWN OF NEW FAIRFIELD
4 BRUSH HILL ROAD, NEW FAIRFIELD, CT
203-312-5646

BUILDING PERMIT
POST THIS PERMIT CONSPICUOUSLY

Owner: Town Of New Fairfield

Address: 302 Ball Pond Road

Project Description: CONSTRUCTION OF ACCESS ROAD TO 100' X 100' COMPOUND FOR 175 FOOT COMMUNICATION TOWER FOR TOWN EMS ANTENNAS

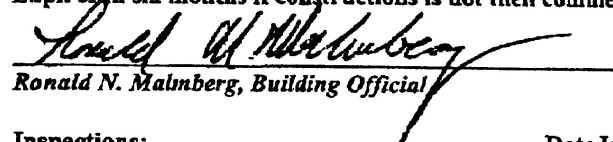
Map: 23 **Block:** 16 **Lot:** 15-16

In accordance with application, plans and specifications submitted to the New Fairfield building department, this project will be completed subject to the State of Connecticut building code. Otherwise this permit will be null and void. Occupancy of this new building or addition prior to issuance of certification of occupancy will be considered a violation of the state building code.

Permit No: 02-133

Fee \$: 0.00

Expires in six months if constructions is not then commenced


Ronald N. Malnberg, Building Official

Inspections:

Date Issued: 07/09/02

- | | |
|-------------------------------|--|
| 1. Footings | 7. Gas or Oil Burner |
| 2. Footing Drains | 8. Final Elec. and Plumbing |
| 3. Framing (Rough) | 9. Deck |
| 4. Plumbing (Rough with Test) | 10. Final - Fire Separation, Exits, etc. |
| 5. Electrical | |
| 6. Insulation | |

Conditions:

Attachment 2

verizon

WIRELESS COMMUNICATIONS FACILITY

NEW FAIRFIELD 2 CT 302 BALL POND ROAD NEW FAIRFIELD, CT 06812

DRAWING INDEX

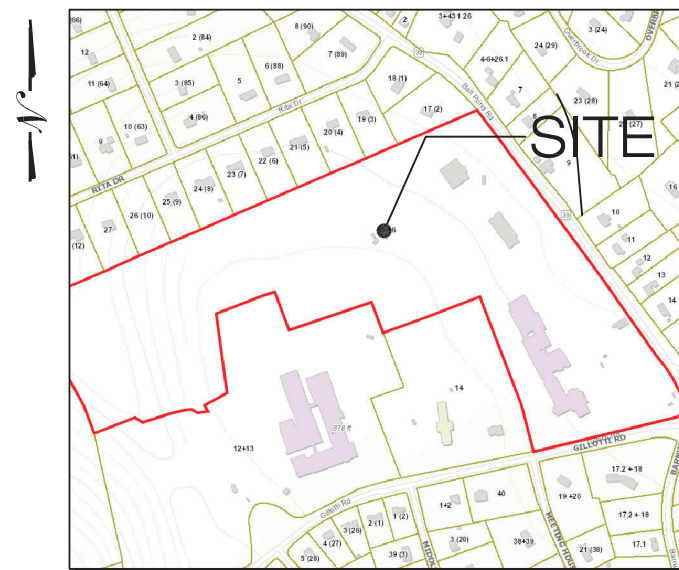
- T-1 TITLE SHEET
- C-1 COMPOUND PLAN, TOWER ELEVATION, EQUIPMENT DETAILS & NOTES
- N-1 NOTES & SPECIFICATIONS

SITE DIRECTIONS

**START: 20 ALEXANDER DRIVE
WALLINGFORD, CONNECTICUT 06492**

**END: 302 BALL POND ROAD
NEW FAIRFIELD, CT 06812**

- | | |
|---|---------|
| 1. HEAD SOUTH TOWARD ALEXANDER DRIVE | 279 FT |
| 2. SLIGHT RIGHT TOWARDS ALEXANDER DRIVE | 289 FT |
| 3. TURN RIGHT TOWARD ALEXANDER DRIVE | 167 FT |
| 4. TURN RIGHT ONTO ALEXANDER DRIVE | 0.3 MI |
| 5. TURN RIGHT ONTO BARNES INDUSTRIAL ROAD S. | 0.1 MI |
| 6. TURN LEFT AT THE 1ST CROSS STREET ONTO CT-68W | 0.4 MI |
| 7. TURN RIGHT | 0.2 MI |
| 8. TURN RIGHT TO MERGE ONTO CT-15 N TOWARD HARTFORD | 0.5 MI |
| 9. MERGE ONTO CT-15 N | 3.1 MI |
| 10. USE THE MIDDLE LANE TO STAY ON CT-15 N | 0.1 MI |
| 11. TAKE EXIT 68W TO MERGE ONTO I-691 W TOWARD MERIDEN/WATERBURY | 7.9 MI |
| 12. USE LEFT 2 LANES TO TAKE EXIT 1 FOR I-84 W TOWARD WATERBURY/DANBURY | 1.0 MI |
| 13. MERGE ONTO I-84 | 33.8 MI |
| 14. TAKE EXIT 6 FOR CT-37 TOWARD NEW FAIRFIELD | 0.2 MI |
| 15. CONTINUE ONTO CT-37 N/NORTH STREET | 1.9 MI |
| 16. TURN LEFT ONTO BARNUM ROAD | 2.4 MI |
| 17. TURN LEFT ONTO BALL POND ROAD | 190 FT |
| 18. SLIGHT RIGHT ON CT-39 S (DESTINATION WILL BE ON THE LEFT) | 0.2 MI |



LOCATION MAP
SCALE: 1" = 2000'-0"

SITE INFORMATION

VZ SITE NAME: NEW FAIRFIELD 2 CT
VZ PROJ FUZE I.D.: 16416557
VZ LOCATION CODE: 467504
VZ PROJECT CODE: 20212242593
LOCATION: 302 BALL POND ROAD
NEW FAIRFIELD, CT 06812

PROJECT SCOPE: REFER TO NOTES ON C-1 FOR SCOPE OF WORK.

MAP/BLOCK/LOT: 23/16/15

ZONING DISTRICT: 2

LATITUDE: 41° 27' 53.20" N (41.464778° N)

LONGITUDE: 73° 29' 49.00" W (73.496944° W)

GROUND ELEVATION: 825'± AMSL

PROPERTY OWNER: TOWN OF NEW FAIRFIELD
4 BRUSH HILL ROAD
NEW FAIRFIELD, CT 06812

APPLICANT: CELCO PARTNERSHIP
d/b/a VERIZON WIRELESS
20 ALEXANDER DRIVE
WALLINGFORD, CT 06492

LEGAL/REGULATORY COUNSEL: ROBINSON & COLE, LLP
KENNETH C. BALDWIN, ESQ.
280 TRUMBULL STREET
HARTFORD, CT 06103

ENGINEER CONTACT: ALL-POINTS TECHNOLOGY CORP., P.C.
567 VAUXHALL STREET EXTENSION - SUITE 311
WATERFORD, CT 06385
(860) 663-1697

VERIZON SMART TOOL PROJECT # N/A

SITE COORDINATES & GROUND ELEVATION
OBTAINED FROM GOOGLE MAPS

Cellco Partnership d/b/a

verizon

20 ALEXANDER DRIVE
WALLINGFORD, CT 06492

ALL-POINTS
TECHNOLOGY CORPORATION

567 VAUXHALL STREET EXTENSION - SUITE 311
WATERFORD, CT 06385 PHONE: (860)-663-1697
WWW.ALLPOINTSTECH.COM FAX: (860)-663-0935

CONSTRUCTION DOCUMENTS

| NO | DATE | REVISION |
|----|----------|-----------------|
| 0 | 03/10/21 | FOR REVIEW: JRM |
| 1 | | |
| 2 | | |
| 3 | | |
| 4 | | |
| 5 | | |
| 6 | | |



DESIGN PROFESSIONALS OF RECORD

PROF: MICHAEL S. TRODDEN P.E.
COMP: ALL-POINTS TECHNOLOGY CORPORATION, P.C.
ADD: 567 VAUXHALL STREET EXT. SUITE 311
WATERFORD, CT 06385

OWNER: TOWN OF NEW FAIRFIELD
ADDRESS: 4 BRUSH HILL ROAD
NEW FAIRFIELD, CT 06812

VERIZON AT NEW FAIRFIELD 2 CT

SITE ADDRESS: 302 BALL POND ROAD
NEW FAIRFIELD, CT 06812

APT FILING NUMBER: CT141_12060

DRAWN BY: DRA

DATE: 03/10/21 CHECKED BY: JRM

VZW PROJECT CODE: 20212242593

VZW LOCATION CODE: 467504

VZW FUZE ID: 16416557

SHEET TITLE:

TITLE SHEET

SHEET NUMBER:

T-1

GENERAL ABBREVIATION LIST:

- ABP ABOVE BASE PLATE
- AGL ABOVE GROUND LEVEL
- AMSL ABOVE MEAN SEA LEVEL
- AWS ADVANCED WIRELESS SERVICE
- HDG HOT DIP GALVANIZED
- OVP OVER VOLTAGE PROTECTION
- RRH REMOTE RADIO HEAD
- V.I.F. VERIFY IN FIELD
- W.P. WORK POINT
- A.F.R. ABOVE FINISH ROOF

NOTES:

1. REFER TO TOWER STRUCTURAL ANALYSIS REPORT PREPARED BY ALL POINTS TECHNOLOGY CORP., P.C. DATED 03/10/21 AND AVAILABLE UNDER SEPARATE COVER.
2. BASE MAPPING FROM FIELD MEASUREMENTS TAKEN BY ALL-POINTS TECH. CORP., P.C. ON 02/05/21.
3. PROJECT SCOPE INCLUDES THE FOLLOWING:
 - INSTALLATION OF (3) NEW DUAL-BAND RRHS WITHIN EXIST. SHELTER
 - INSTALLATION OF (3) NEW DIPLEXERS WITHIN EXIST. SHELTER.
 - INSTALLATION OF (6) NEW 1-5/8" COAX CABLES, FOR A TOTAL OF (18) 1-5/8" LINES.
 - REMOVE (6) EXIST. DIPLEXERS FROM WITHIN EXIST. SHELTER.
4. ALL EXPOSED STEEL AND HARDWARE TO BE HOT DIP GALV. (HDG). PAINT TO MATCH EXIST. (WHERE APPLICABLE)
5. CAP & WEATHERPROOF ALL UN-USED CABLE ENTRY PORTS (WHERE APPLICABLE).
6. MOUNT & GROUND ALL NEW EQUIPMENT IN ACCORDANCE WITH NEC (NFPA-70), NESC AND MANUFACTURERS SPECIFICATION.
7. SECURE ALL NEW ANTENNA CABLES PER MANUFACTURER RECOMMENDATIONS.
8. ANTENNA CONFIGURATIONS SHOWN HEREIN ARE FRONT ELEVATIONS.
9. REFER TO THE FINAL RFDS PROVIDED BY VERIZON FOR THE LATEST INFORMATION REGARDING EQUIPMENT MODELS, REQUIRED CABLING & DOWN-TILT INFORMATION.

Cellco Partnership d/b/a



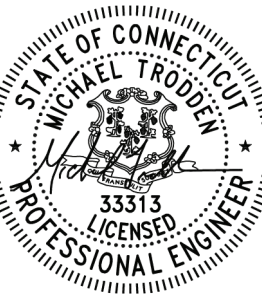
20 ALEXANDER DRIVE
WALLINGFORD, CT 06492



567 VAUXHALL STREET EXTENSION - SUITE 311
WATERFORD, CT 06395 PHONE: (860)-663-1897
WWW.ALLPOINTS TECH.COM FAX: (860)-663-0935

CONSTRUCTION DOCUMENTS

| NO | DATE | REVISION |
|----|----------|-----------------|
| 0 | 03/10/21 | FOR REVIEW: JRM |
| 1 | | |
| 2 | | |
| 3 | | |
| 4 | | |
| 5 | | |
| 6 | | |



DESIGN PROFESSIONALS OF RECORD

PROF: MICHAEL S. TRODDEN P.E.
COMP: ALL-POINTS TECHNOLOGY CORPORATION, P.C.
ADD: 567 VAUXHALL STREET EXT. SUITE 311
WATERFORD, CT 06395

OWNER: TOWN OF NEW FAIRFIELD
ADDRESS: 4 BRUSH HILL ROAD
NEW FAIRFIELD, CT 06812

VERIZON AT NEW FAIRFIELD 2 CT

SITE ADDRESS: 302 BALL POND ROAD
NEW FAIRFIELD, CT 06812

APT FILING NUMBER: CT141_12060

DRAWN BY: DRA
DATE: 03/10/21 CHECKED BY: JRM

VZW PROJECT CODE: 20212242593

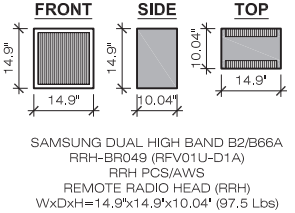
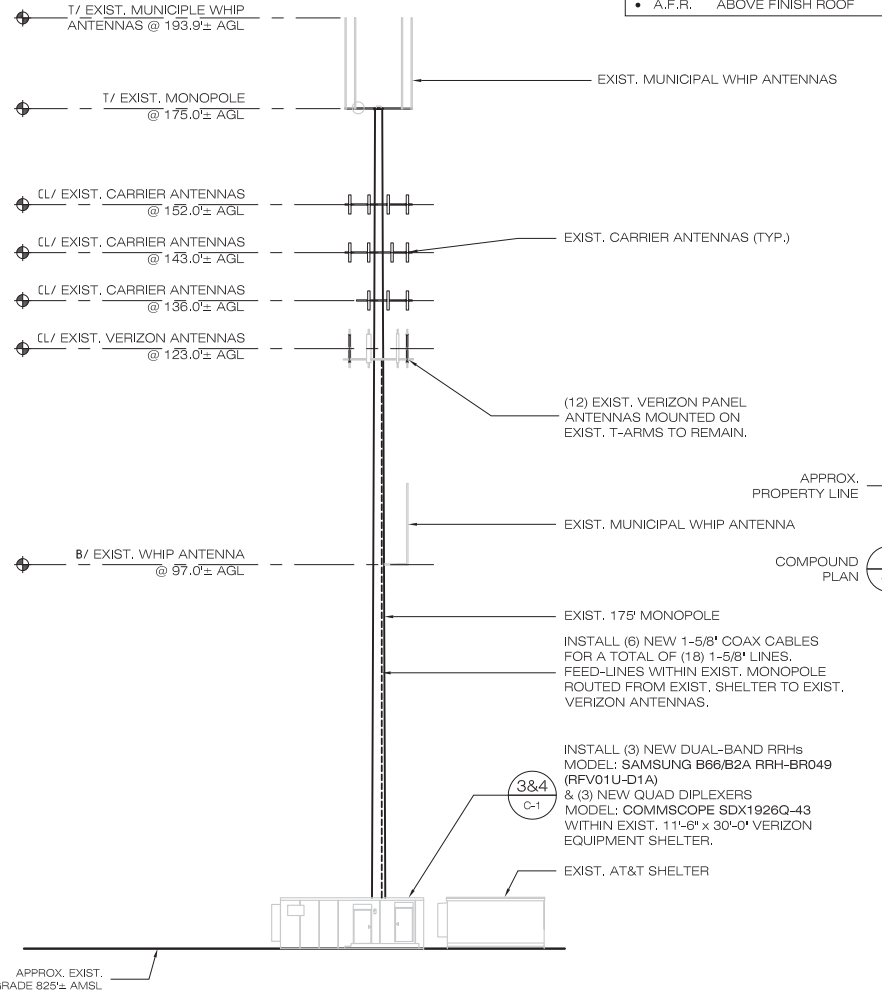
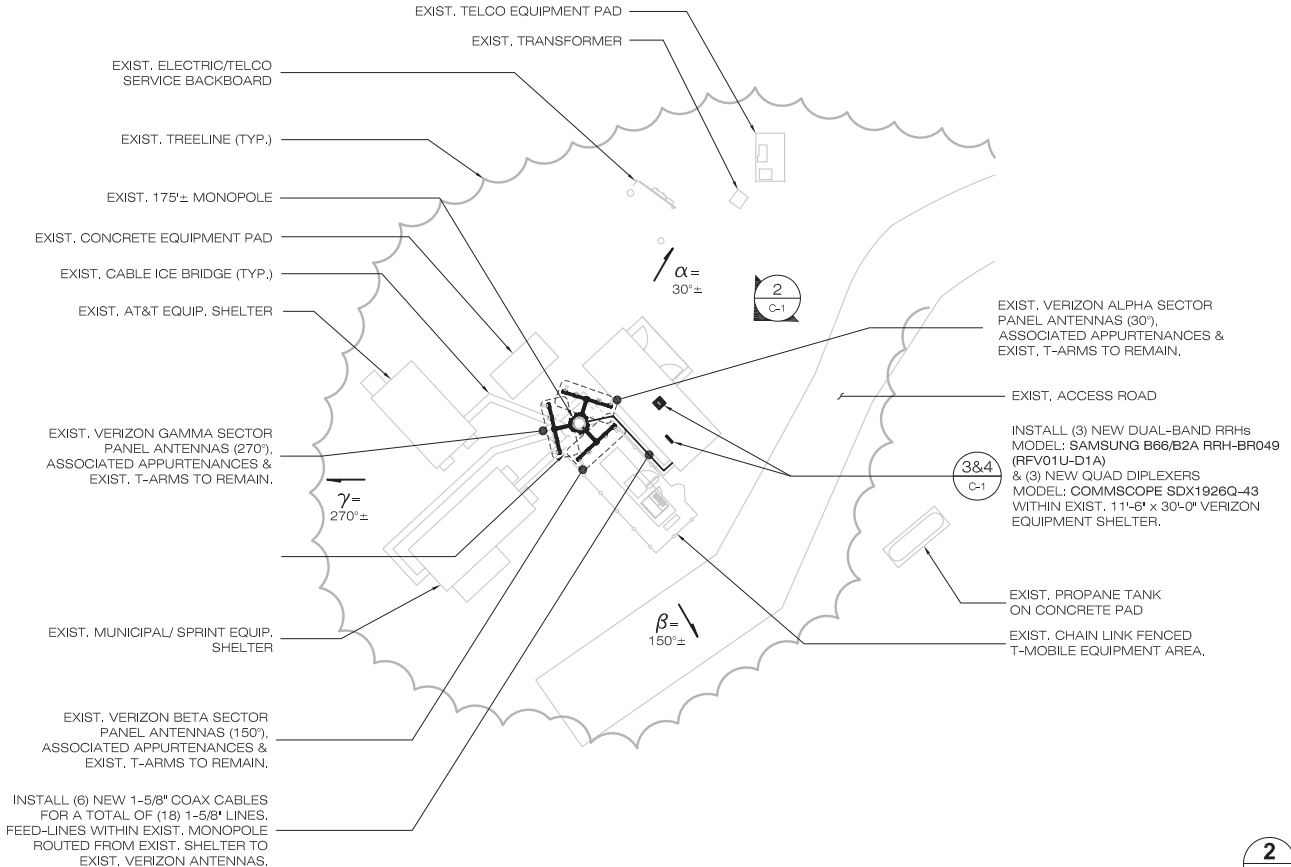
VZW LOCATION CODE: 467504

VZW FUZE ID: 16416557

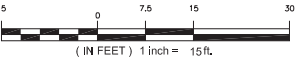
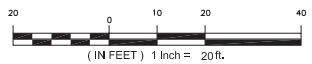
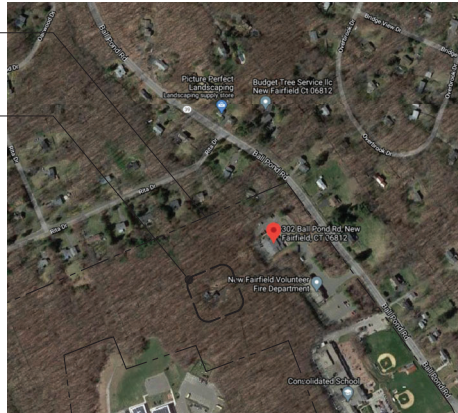
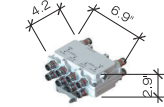
SHEET TITLE:
**COMPOUND PLAN,
TOWER ELEVATION,
EQUIPMENT DETAILS
& NOTES**

SHEET NUMBER:

C-1



NOTE: WEIGHTS INCLUDE SOLAR SHEILD & MOUNTING BRACKET



| | |
|--|------------------------------------|
| DESIGN BASIS: | |
| GOVERNING CODES/DESIGN STANDARDS: | |
| 2015 INTERNATIONAL BUILDING CODE (IBC) AS AMENDED BY THE 2018 CONNECTICUT STATE BUILDING CODE ASCE 7-10 (IA-222-G) (TOWER) | |
| DESIGN CRITERIA (TOWER): | |
| STRUCTURE CLASS : | II (IA-222-G, TABLE 2-1 & ANNEX A) |
| RISK CATEGORY: | II (IBC 2015 TABLE 1604.4) |
| WIND LOADS: | |
| ULTIMATE BASIC WIND SPEED, V_{ult} (3-SECOND GUST) | 115 MPH (2018 CSBC APPENDIX N) |
| NOMINAL BASIC WIND SPEED, V_{10} (3-SECOND GUST) | 89 MPH (2018 CSBC APPENDIX N) |
| EXPOSURE CATEGORY | B (2015 IBC SEC. 1609.4.3) |
| WIND IMPORTANCE FACTOR, I_w | 1.0 (IA-222G, TABLE 2-3) |
| ICE LOADS: | |
| ICE THICKNESS, T_i | 0.75 IN (IA-222G, ANNEX B) |
| ICE THICKNESS IMPORTANCE FACTOR, I_i | 1.0 (IA-222G, TABLE 2-3) |
| NOMINAL BASIC WIND SPEED W/ICE, V_{10} (3-SECOND GUST) | 50 MPH (IA-222G, ANNEX B) |
| WIND LOAD W/ICE IMPORTANCE FACTOR, I_{iw} | 1.0 (IA-222G, TABLE 2-3) |
| SEISMIC LOAD: | |

REFER TO SECTION 1613 OF THE 2015 IBC/2018 CONNECTICUT STATE BUILDING CODE FOR SEISMIC CLASSIFICATION AND LOADING DETERMINATION.

| | |
|--|---|
| 01 GENERAL: | |
| ABBREVIATIONS USED IN THESE SPECIFICATIONS INCLUDE THE FOLLOWING: | |
| ACI | AMERICAN CONCRETE INSTITUTE |
| ANSI | AMERICAN NATIONAL STANDARDS INSTITUTE |
| AWIS | AMERICAN WELDING SOCIETY |
| ASTM | AMERICAN INSTITUTE OF STEEL CONSTRUCTION |
| ASSE | AMERICAN SOCIETY OF CIVIL ENGINEERS |
| ASTM | AMERICAN STANDARDS AND TESTING METHODS |
| CSI | CONCRETE REINFORCING STEEL INSTITUTE |
| ICC-ES | INTERNATIONAL CODE COUNCIL EVALUATION SERVICE |
| ITA | TELECOMMUNICATIONS INDUSTRY ASSOCIATION |
| UL | UNDERWRITERS LABORATORIES |
| NEC | NATIONAL ELECTRICAL CODE |
| NFPA | NATIONAL FIRE PROTECTION ASSOCIATION |
| OSHA | OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION |
| EVEN IF A TRADE, DESIGNER AND CONTRACTOR SHALL INCLUDE THESE GENERAL SPECIFICATIONS, THE ENGINEER IS NOT RESPONSIBLE FOR NOR A GUARANTOR OF THE INSTALLING CONTRACTORS WORK, ADEQUACY OF ANY SITE COMPONENT, SUPERVISION OF ANY WORK AND SAFETY IN, ON, OR ABOUT THE WORK SITE. | |
| ANY REFERENCE HEREIN TO AN OR EQUAL ITEM, THAT EQUAL ITEM SHALL BE PRE-APPROVED BY THE CONSTRUCTION MANAGER BEFORE INSTALLATION. | |
| ALL TRADES SHALL COORDINATE THEIR WORK WITH ALL OTHER TRADES AND OTHER WORK AND CONDITIONS AS APPROPRIATE OR REQUIRED TO AVOID CONFLICTS. RESOLVE AND COORDINATE ALL CONFLICTS WITH ALL AFFECTED WORK AND SITE OPERATIONS. COORDINATION WITH THE SITE SHALL BE WITH THE OWNER, OR OWNERS SPECIFIED REPRESENTATIVE. FOR EVERYTHING RELATED TO THE INSTALLATION OF THIS PROJECT. | |
| ALL WORK SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE EDITIONS OF ALL APPLICABLE CODES AND SHALL BE ACCEPTABLE TO ALL AUTHORIZED HAVING JURISDICTION (HAJ), WHERE A CONFLICT EXISTS BETWEEN CODES, PLANS, SPECIFICATIONS, AND/OR AHJ, THE MOST STRINGENT AUTHORITY SHALL PREVAIL. WHERE CONFLICT EXISTS BETWEEN PLANS AND SPECIFICATIONS, PLANS SHALL APPLY, WHERE CONFLICT EXISTS BETWEEN PLAN SHEETS, CONSTRUCTION MANAGER SHALL BE CONSULTED PRIOR TO COMMENCING ANY WORK. | |
| CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS, INSURANCE, EQUIPMENT, INSTALLATION, CONSTRUCTION TOOLS, TRANSPORTATION, ETC., FOR A COMPLETE AND NEWLY OPERATIVE AND USABLE SYSTEM THROUGHOUT AND AS INDICATED ON THE DRAWINGS AND AS SPECIFIED HEREIN AND/OR OTHERWISE REQUIRED. | |
| CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS, INSTALLATIONS, AND EQUIPMENT IN THE FIELD PRIOR TO BID, FABRICATION, AND INSTALLATION OF ANY WORK. | |
| CONTRACTORS SHALL VERIFY ALL DIMENSIONS AND CONDITIONS IN THE FIELD PRIOR TO FABRICATION AND ERECTION OF ANY MATERIAL. THE ENGINEER SHALL BE NOTIFIED FOR INSPECTIONS PRIOR TO CLOSING PENETRATIONS AND OF ANY CONNECTIONS WHICH REQUIRE COMPLETION OF THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. | |
| CONTRACTOR SHALL VISIT THE SITE TO MANAGE AND OBTAIN APPROVAL FOR ALL TENANT DISRUPTIONS, POWER OUTAGES, WORK SCHEDULES, DEFINITION OF WORK AREA AND WORK STORAGE, NEIGHBOR BUILDINGS SITE ACCESS, NOISE AND CLEANNESS REQUIREMENTS WITH THE BUILDING SITE MANAGEMENT PRIOR TO ANY WORK. ANY DISRUPTIONS SHALL BE KEPT TO A MINIMUM AND SHALL BE IMPLEMENTED ONLY UPON WRITTEN APPROVAL OF THE OWNER. | |
| THE CONTRACTOR SHALL SAFEGUARD AGAINST CREATING ANY HAZARD AFFECTING TENANT EGRESS OR COMPROMISING SITE SECURITY MEASURES. | |
| PRIOR TO ALL BELOW-GRADE WORK AND ANY SURFACE WORK IN A NEW AREA FOR STRUCTURES OR VEHICLES, CONTRACTOR SHALL ENGAGE A MARKOUT SERVICE TO IDENTIFY ANY UNDERGROUND STRUCTURES, CONDUITS, AND PIPELINES IN THE AREA. ALL EXISTING SEWER, WATER, GAS, ELECTRIC, FIBER OPTIC, AND OTHER UNDERGROUND UTILITIES IDENTIFIED OR ENCOUNTERED, SHALL BE PROTECTED AT ALL TIMES. EXTREME CAUTION SHOULD BE USED BY THE CONTRACTOR WHEN DIGGING OR GRAVING IN ANY MANNER AROUND OR NEAR SUCH UTILITIES. CONTRACTOR IS RESPONSIBLE FOR REPAIRS, REPLACEMENT, AND ALL DAMAGES DUE TO DAMAGE OF UTILITIES BY HIS OPERATIONS. | |
| ALL EXISTING AND NEW EQUIPMENT AND MATERIAL LOCATIONS, ROUTING, ORIENTATION, MOUNTING, SPECIFICATIONS AND GENERAL INSTALLED CHARACTERISTICS SHALL BE CONSIDERED DIAGRAMMATIC ON THE PLANS. EXACT CONDITIONS SHALL BE DETERMINED IN THE FIELD PRIOR TO ANY INSTALLATION. ANY DIFFERENCES THAT MAY CAUSE SCHEDULE, COST, OR QUALITY SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER OR ENGINEER PRIOR TO ANY WORK. | |
| ALL REFERENCES HEREIN TO VERIFICATION OF ANY CONDITION OF SITE, FIELD, PLANS, OR SPECIFICATIONS PRIOR TO ANY WORK SHALL BE THE FULL RESPONSIBILITY OF THE CONTRACTOR. ANY AND ALL ADDITIONS, MODIFICATIONS, CHANGES, REPAIR, OR DEMOLITION AS A RESULT OF FAILURE TO BRING ANY EXISTING CONDITION NEWLY TO THE ATTENTION OF THE OWNER OR ENGINEER SHALL BE THE FULL RESPONSIBILITY OF THE CONTRACTOR WITHOUT DELAY, COST, OR CHANGES IN QUALITY. | |
| ALL NOTES THIS SHEET SHALL APPLY UNLESS SPECIFICALLY NOTED OTHERWISE ON THE INCLUDED DRAWINGS OR IN SEPARATE PROJECT SPECIFICATIONS AS APPLICABLE. ALL SPECIFICATIONS SHALL BE CONSIDERED REQUIRED UNLESS APPROVED EQUAL BY THE OWNER, CONSTRUCTION MANAGER, OR ENGINEER AS APPLICABLE. THE WORDS "PROVIDE" OR "INSTALL" SHALL MEAN FURNISH AND INSTALL. | |
| CONTRACTOR SHALL PROVIDE ALL CUTTING AND PATCHING AS REQUIRED FOR THE INSTALLATION OF HIS WORK. ANY PATCHING SHALL MATCH EXISTING SURROUNDING AREA IN ALL RESPECTS. ALL PATCHING MATERIAL SHALL BE REMOVED FROM THE PREMISES DAILY IN AN APPROVED SAFE MANNER. | |
| ALL SURPLUS MATERIAL SHALL BE REMOVED FROM THE SITE PROMPTLY WHEN DEEMED TO BE SURPLUS. | |
| EVERY CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF HIS WORK AND NEWLY INSTALLED OR EXISTING WORK, INCLUDING FURNISH, INSTALL, MAINTAIN, AND REMOVE AS APPROPRIATE, ALL APPROPRIATE BARRIERS, SAFETY GUARDS, SIGNAGE, AND SECURITY AS REQUIRED. | |
| EVERY CONTRACTOR SHALL BE RESPONSIBLE FOR THEIR RESPECTIVE FEES, PERMITS, INSPECTIONS, TESTING, CERTIFICATES, AND ALL MANAGEMENT OF SAME REQUIRED FOR COMPLETION OF AND LEGAL OCCUPANCY OF THE FINISHED PROJECT. | |
| ALL CONTRACTORS SHALL PROVIDE ALL NECESSARY TOOLS, FIXTURES, SERVICES, MATERIALS, JOB AIDS, AND PERSONNEL REQUIRED FOR THE EXECUTION OF THEIR WORK. | |
| EACH CONTRACTOR SHALL GUARANTEE ALL MATERIALS AND WORKMANSHIP BY THEM TO BE FREE OF DEFECTS AND MAINTAINED FOR A PERIOD OF ONE YEAR AFTER ACCEPTANCE OF THE INSTALLATION BY THE OWNER AND ENGINEER. | |
| ALL WORK SHALL BE PERFORMED BY LICENSED CONTRACTORS IN THE | |

TRADE HAVING JURISDICTION, AND BY DEFINITION, MODIFICATION, ADDITION, OR CHANGE IN DESIGN SHALL NOT BE MADE WITHOUT WRITTEN APPROVAL OF THE OWNER OR ENGINEER.

ALL CONTRACTORS SHALL SUBMIT SHOP DRAWINGS OF ALL EQUIPMENT AND MATERIALS TO THE ENGINEER FOR APPROVAL PRIOR TO FABRICATION AND INSTALLATION, AND SHALL NOT PROCEED UNTIL ENGINEER APPROVAL IN WRITING IS RETURNED. EACH CONTRACTOR SHALL MAINTAIN ON JOB SITE A COMPLETE SET OF SHOP DRAWINGS WITH ANY DEVIATIONS FROM THE ORIGINAL DESIGN SHALL BE NOTED.

ALL MATERIALS AND EQUIPMENT SHALL BE NEW, WITHOUT BLEMISH OR DEFECT, AND SUITABLE AND LISTED FOR THE INSTALLATION AND SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS OR SPECIFICATIONS. ALL ITEMS OF EQUIPMENT OR MATERIAL THAT ARE OF ONE GENERIC TYPE SHALL BE ONE MANUFACTURER THROUGHOUT.

ALL MATERIALS, EQUIPMENT, TOOLS, AND ITEMS UNDER THE CONTRACTORS RESPONSIBILITY ON THE JOBSITE SHALL BE ADEQUATELY SECURED, MAINTAINED, AND PROTECTED, SO AS NOT TO BECOME DAMAGED OR CREATE ANY HAZARD TO PERSONNEL OR NEWERTY.

THE CONTRACTORS HOURS OF WORK SHALL BE IN ACCORDANCE WITH LOCAL CODES AND ORDINANCES AND BE APPROVED BY THE OWNER. CONTRACTOR SHALL PROVIDE SAFETY TRAINING FOR ALL OF HIS CREW AND INSURE THAT EVERY CREW MEMBER FOLLOWS SAFE WORK PRACTICES. SAFETY TRAINING SHALL INCLUDE, BUT NOT BE LIMITED TO, FALL PROTECTION, CONFINED SPACE ENTRY, ELECTRICAL SAFETY, AND TRENCH/EXCAVATION SAFETY WHERE SUCH WORK IS EXECUTED OR ENCOUNTERED.

ALL TEMPORARY WORK REQUIRED OR SPECIFIED AS A PART OF THIS WORK SHALL MEET ALL OF THE SAME REQUIREMENTS AS PERMANENT INSTALLATIONS, SHALL MEET ALL APPLICABLE CODE REQUIREMENTS, AND SHALL BE COMPLETELY REMOVED AFTER ITS PURPOSES HAVE BEEN SERVED.

ANY EXISTING UTILITY, SERVICE, STRUCTURE, EQUIPMENT, OR FIXTURE OBSTRUCTING THE WORK SHALL BE REMOVED AND/OR RELOCATED AS DIRECTED BY THE CONSTRUCTION MANAGER.

IF ASBESTOS IS ENCOUNTERED DURING WORK EXECUTION, CONTRACTOR SHALL IMMEDIATELY NOTIFY THE CONSTRUCTION MANAGER AND CEASE ALL ACTIVITIES IN THAT AREA UNTIL NOTIFIED BY THE CONSTRUCTION TO RESUME OPERATIONS.

EXIST. ELECTRICAL AND MECHANICAL FIXTURES, PIPING, WIRING AND EQUIPMENT OBSTRUCTING THE WORK SHALL BE REMOVED AND/OR RELOCATED AS DIRECTED BY THE CONSTRUCTION MANAGER. TEMPORARY SERVICE INTERRUPTIONS MUST BE COORDINATED WITH OWNER.

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|---|----------------------------|
| 05 STEEL: | |
| THESE SPECIFICATIONS SHALL INCLUDE THE GENERAL SPECIFICATIONS HEREIN: | |
| MATERIALS: | |
| WIDE FLANGE | ASTM A992, GR 50 |
| TUBING | ASTM A500, GR B |
| PIPE | ASTM A53, GR B |
| BOLTS | ASTM A325 |
| GRATING | TYPE GW-2 (1-1/4"X1" BARS) |
| EXISTING METALS | ASTM A36 |
| PROVIDE CERTIFICATION THAT WELDERS TO BE USED IN WORK ARE LICENSED AND HAVE SATISFACTORILY PASSED QUALIFICATION TEST UNDER THE PROVISIONS OF APPENDIX D, PARTS I AND II OF THE AWS CODE FOR WELDING IN BUILDING CONSTRUCTION. | |
| ALL BUILDING CONNECTION POINTS TO UNDERGROUND OR EXISTING STRUCTURAL BEARING POINTS AND THE LOCATIONS ARE TO BE VERIFIED IN FIELD PRIOR TO THE FABRICATION OF STEEL. | |
| DESIGN AND CONSTRUCTION OF STRUCTURAL STEEL SHALL CONFORM TO THE LATEST EDITION OF AISC SPECIFICATION FOR "THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS". | |
| NON-STRUCTURAL CONNECTIONS FOR STEEL GRATING MAY USE 3/8" DIAMETER GALVANIZED ASTM A 307 BOLTS UNLESS OTHERWISE NOTED. | |
| ALL STEEL MATERIAL SHALL BE GALVANIZED AFTER FABRICATION IN ACCORDANCE WITH AISC SPECIFICATION 12.12.2. GALVANIZING COATINGS ON IRON AND STEEL PRODUCTS WITH A COATING WEIGHT OF 2.0Z/F. | |
| ALL BOLTS, ANCHORS AND MISCELLANEOUS HARDWARE EXPOSED TO WEATHER SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A153 "ZINC COATING (HOT-DIP) ON IRON AND STEEL HARDWARE". | |
| DAMAGED GALVANIZED SURFACES SHALL BE REPAIRED BY TOUCHING UP ALL DAMAGED GALVANIZED STEEL WITH COLD ZINC "GALVANOM" "ZINC GALV" OR "ZINC 17" IN ACCORDANCE WITH MANUFACTURERS GUIDELINES. TOUCH UP DAMAGED NON-GALVANIZED STEEL WITH SAME PAINT APPLIED IN SHOP OR FIELD. | |
| THE ENGINEER SHALL BE NOTIFIED OF ANY INCORRECTLY FABRICATED, DAMAGED OR OTHERWISE DEFECTIVE OR NON-COMPLYING MATERIALS OR CONDITIONS TO REMEDIAL OR CORRECTIVE ACTION. ANY SUCH ACTION SHALL REQUIRE ENGINEER REVIEW, FIELD OUTLINE OF STRUCTURAL STEEL IS NOT PERMITTED EXCEPT WITH THE PRIOR APPROVAL OF THE ENGINEER. | |
| CONTRACTOR TO REMOVE AND RE-INSTALL ALL FIRE PROOFING AS REQUIRED DURING CONSTRUCTION. | |
| THE STEEL STRUCTURE SHALL BE DESIGNED TO BE SELF-SUPPORTING AND STABLE AFTER COMPLETION. IT IS THE CONTRACTORS SOLE RESPONSIBILITY TO DETERMINE ERECTION PROCEDURE AND SEQUENCE AND TO INSURE THE SAFETY OF THE BUILDING AND ITS COMPONENT PARTS DURING ERECTION. | |
| ALL STEEL ELEMENTS SHALL BE INSTALLED PLUMB AND LEVEL. TOWER MANUFACTURERS DESIGNS SHALL PREVAIL FOR TOWER. | |
| CONNECTIONS SHALL BE DESIGNED BY THE FABRICATOR AND CONSTRUCTED IN ACCORDANCE WITH THE LATEST EDITION OF THE AISC MANUAL OF STEEL CONSTRUCTION. CONNECTIONS SHALL BE PROVIDED TO CONFORM TO THE REQUIREMENTS OF TYPE 2 CONSTRUCTION. | |
| STRUCTURAL CONNECTION BOLTS SHALL CONFORM TO ASTM A325. ALL BOLTS SHALL BE MINIMUM 3/4" DIAMETER AND EACH CONNECTION SHALL HAVE MINIMUM TWO BOLTS. LOCK WASHERS ARE NOT PERMITTED FOR A325 STEEL ASSEMBLIES. IF TENSION CONTROL BOLTS ARE USED, CONNECTIONS SHALL BE DESIGNED FOR SUP CRITICAL BOLT ALLOWABLE LOAD VALUES. | |
| DESIGN CONNECTIONS AT BEAM ENDS FOR 10 HPS (M), ALL U-BOLTED CONNECTIONS SHALL BE COMPLETED WITH DOUBLE NUTS OR A LOCK WASHER. | |
| CONTRACTOR SHALL COMPLY WITH AWS CODE FOR PROCEDURES, APPEARANCE AND QUALITY OF WELDS, AND WELDING PROCESSES SHALL BE QUALIFIED IN ACCORDANCE WITH AWS STANDARD QUALITY CONTROL PROCEDURES. ALL WELDING SHALL BE PERFORMED USING E70XX ELECTRODES AND SHALL CONFORM TO AWS AND D1.1, WHERE FILLET WELD SIZES ARE NOT SHOWN, PROVIDE THE LARGEST 1/4" FILLET OR MINIMUM SIZE PER TABLE J2.4 IN THE AWS "MANUAL OF STEEL CONSTRUCTION", AT THE COMPLETION OF WELDING. ALL DAMAGE TO GALVANIZED COATING SHALL BE REPAIRED. SEE NOTE REGARDING DAMAGED GALVANIZED SURFACES. | |
| ALL APC AND GAS WELDING SHALL BE DONE BY A LICENSED AND CERTIFIED WELDER IN ACCORDANCE WITH AWS. | |
| SEAL ALL PENETRATIONS AND SEAMS BETWEEN MASONRY AND STEEL WITH DOW CORNING 790 SILICONE BUILDING SEALANT OR EQUAL. | |

26 ELECTRICAL:

THESE SPECIFICATIONS SHALL INCLUDE THE GENERAL SPECIFICATIONS HEREIN:

ALL ELECTRICAL CONTRACTORS:

- INSULATION SHALL BE MINIMUM 600V TYPE THHN, THWN-2, OR XHHW.
- BRANCH CIRCUIT CONDUCTORS SHALL BE SOFT DRAWN 99% MINIMUM CONDUCTIVITY NEWLY REFINED COPPER.
- FEEDER CIRCUIT CONDUCTORS SHALL BE EITHER COPPER OR ALUMINUM OF THE APPROPRIATE SIZE FOR THE APPLICATION, OR AS SPECIFICALLY NOTED.
- PERMANENTLY LABEL OR TAG ALL CONDUCTORS WITH THEIR CIRCUIT DESIGNATION AT ALL TERMINATION ENDS, SPICES, AND VISIBLE AS PASS-THROUGH IN ALL ENCLOSURES.
- ALL CONDUIT, RACEWAY, WIREWAYS, DUCTS, ETC. SHALL BE LISTED AND SUITABLE FOR THE APPLICATION. ONLY THE FOLLOWING CONDUITS AS APPROVED AND LISTED FOR THE APPLICATION SHALL BE ACCEPTABLE.
 - ELECTRICAL METALLIC TUBING (EMT).
 - COMPRESSION COUPLINGS AND CONNECTORS ONLY MADE UP WRENCH TIGHT.
 - INFLEXIBLE METAL CONDUIT (FMC) AND LIQUIDTIGHT FLEXIBLE METAL CONDUIT (LFMC).
 - FRANK CONNECTIONS TO VIBRATING OR ADJUSTABLE EQUIPMENT INCLUDING, BUT NOT LIMITED TO, LIGHT FIXTURES, HVAC UNITS, TRANSFORMERS, MOTORS, ETC. OR WHERE EQUIPMENT IS PLACED UPON SLAB ON-GRADE.
 - RIGID GALVANIZED STEEL (RGS).
 - ALL FITTINGS, CONNECTORS, AND COUPLINGS SHALL BE THREADED MADE UP WRENCH TIGHT.
 - RIGID POLY-VINYL CHLORIDE (PVC) SCHEDULE 40 OR SCHEDULE 80.
 - MAY BE USED FOR SERVICES, EXTERIOR, BELOW GRADE, AND WET LOCATIONS.
 - SHALL NOT BE USED IN CONCRETE SLABS NOR EXPOSED WITHIN A BUILDING OR STRUCTURE.
 - METAL-CLAD CABLE (MCC).
 - CONCEALED INSTALLATIONS ONLY.
 - WITHIN A DUCT WITH SMOOTH OR CORRUGATED METAL JACKET AND NO OUTER COVERING OVER THE METAL JACKET.
- IF FINISHED SPACES, ALL CONDUITS SHALL BE CONCEALED EXCEPT TO MAKE A FINAL CONNECTION TO EQUIPMENT NOT MOUNTED IN OR AGAINST FINISH MATERIAL.

ALL FEEDER AND BRANCH CIRCUITS SHALL HAVE A SEPARATE NEWLY SIZED AND MARKED GROUNDING CONDUCTOR PER APPLICABLE CODES THAT BONDS ALL ENCLOSURES, BOXES, ETC. CONDUIT SHALL NOT BE USED AS A GROUNDING OR BONDING CONDUCTOR.

IF EXISTING ELECTRIC SERVICE IS TO BE MAINTAINED, CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THAT IT MEETS PROJECT REQUIREMENTS WITHOUT MODIFICATION. IF IT IS TO BE ADDED OR REPLACED AS A PART OF THIS WORK, CONTRACTOR SHALL OBTAIN APPROVAL FROM THE UTILITY AND OBTAIN APPROVAL FROM THE ELECTRICAL UTILITY. ALL ELECTRICAL EQUIPMENT SHALL BE AS SPECIFIED AND AS APPROVED BY THE LOCAL UTILITY WHERE APPLICABLE.

ALL EQUIPMENT, ENCLOSURES, ETC. SHALL BE SUITABLE FOR THE INSTALLED ENVIRONMENT. MINIMUM NEMA 3R FOR ALL EXTERIOR INSTALLATIONS.

WIRING DEVICES SHALL BE SPECIFICATION GRADE AND WIRING DEVICE COVER PLATES SHALL BE PLASTIC WITH ENGRAVING AS SPECIFIED. COLOR SHALL BE VARY. ALL DEVICES AND COVER PLATES SHALL BE OF THE SAME MANUFACTURER.

ALL FIRE-RATED PENETRATIONS SHALL BE SEALED USING A SUITABLE AND LISTED FIRE SEALING DEVICE OR GROUT THAT WILL MAINTAIN THE FIRE RATING OF THE STRUCTURE PENETRATED.

PROVIDE PERMANENTLY AFFIXED ENGRAVED NAMEPLATES FOR ALL CODE REQUIRED LABELING AND ON ALL PANELS, METERBAYS, DISCONNECTS, AND ELECTRICAL EQUIPMENT THAT IDENTIFIES EQUIPMENT SERVED, ELECTRICAL SOURCE WITH CIRCUIT IDENTIFICATION AND VOLTAGES WITHIN.

ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR ALL FINAL TERMINATIONS TO ALL EQUIPMENT.

ALL ELECTRICAL APPURTENANCES THAT ARE DISCONNECTED SHALL BE COMPLETELY REMOVED WITH EXISTING STRUCTURES TO REMAIN. REPAIRED, FINISHED, FILLED, PAINTED, ETC. ALL PANEL SCHEDULES, EQUIPMENT LABELING, AND CODE-REQUIRED LABELING SHALL BE VERIFIED AND NEWLY COMPLETED TO MATCH THE INSTALLATION.

26 GROUNDING:

THESE SPECIFICATIONS SHALL INCLUDE THE GENERAL SPECIFICATIONS HEREIN:

GROUND ALL SYSTEMS AND EQUIPMENT IN ACCORDANCE WITH BEST INDUSTRY PRACTICE. THE REQUIREMENTS OF THE NFPA 70 NATIONAL ELECTRICAL CODE (NEC), AND ALL OTHER APPLICABLE CODES AND REGULATIONS.

ALL GROUNDING ELECTRODES PRESENT AT EACH SERVICE LOCATION SHALL BE BONDED TOGETHER TO FORM THE GROUNDING ELECTRODE SYSTEM.

ALL EQUIPMENT ENCLOSURES, DEVICES, AND CONDUITS SHALL BE GROUNDED BY THE INSTALLATION OF A SEPARATE GROUNDING CONDUCTOR FOR ALL FEEDER AND BRANCH CIRCUITS THAT IS SIZED PER CODE OR IS OF THE SIZE INDICATED ON THE DRAWINGS. SHALL BE CONTINUOUS IN LENGTH, AND SHALL BE BONDED TO EACH ENCLOSURE PASSED THROUGH. CONDUIT SHALL NOT BE USED AS A GROUNDING OR BONDING WIRE OR CIRCUIT.

BOND ALL METALLIC CONDUITS TOGETHER THAT ARE CONNECTED TO NON-METALLIC ENCLOSURES, IN-GROUND BOXES, AND TO AN ENCLOSURE WHERE A GROUND BOND IS SPECIFIED OR SUPPLIED. ACCOMPLISH THIS BOND WITH GROUNDING CONDUCTORS MINIMUM SIZED TO THE LARGEST GROUNDING CONDUCTOR PRESENT IN THE ENCLOSURE CONNECTED TO A GROUNDING TYPE DRAWING. MINIMUM SIZED OR MAXIMUM GROUND WIRE ACCOMMODATION AVAILABLE IN STANDARD MANUFACTURE FOR THE CONDUIT SIZE, WHICH IS LESS.

EQUIPMENT GROUNDING AND LOAD SIDE BONDING CONDUCTORS SHALL BE SIZED PER THE CIRCUITS OVER-CURRENT PROTECTIVE DEVICE (OCPD) SIZE. IF THE UNGROUNDED CONDUCTORS ARE INCREASED IN SIZE ABOVE THE STANDARD FOR THE CIRCUITS OCPD, INCREASE THE GROUNDING CONDUCTOR NEARBY PROPORTIONATELY TO THE CROSS-SECTIONAL AREA OF THE UNGROUNDED CONDUCTORS.

SERVICE MAIN BONDING JUMPER AND GROUNDING ELECTRODE CONDUCTORS SHALL BE SIZED AND INSTALLED PER THE MINIMUM OF ALL APPLICABLE CODES AND REGULATIONS.

26 LIGHTNING PROTECTION:

THESE SPECIFICATIONS SHALL INCLUDE THE GENERAL SPECIFICATIONS AND THE GROUNDING SPECIFICATIONS HEREIN.

THE LIGHTNING PROTECTION GROUNDING SYSTEM (LPSS) SHALL CONSIST OF BONDING ALL EQUIPMENT AND CONDUCTIVE STRUCTURES TO LOCALIZED SINGLE-POINT GROUNDING CONNECTIONS (TYPICALLY GROUND BARS) WHICH ARE BONDED TOGETHER AND TO THE GROUND SYSTEM. IF THE LPSS IS ON A BUILDING, IT SHALL BE EFFECTIVELY BONDED TO THE ELECTRICAL SERVICE MAIN BONDING JUMPER AND TO ADDITIONAL IN-GROUND AND ELECTRODE AREAS AS MAY BE REQUIRED OR INDICATED. IF THE LPSS IS ON A DEDICATED COMMUNICATION SITE, ALL EQUIPMENT AREAS AND TOWERS SHALL BE BONDED TO A COMMON IN-GROUND RING WITH EVERY RING BONDED TOGETHER, AND ALL CONDUCTIVE STRUCTURES IN CLOSE PROXIMITY (FENCES, ICE BRIDGES, RELATED EQUIPMENT, ETC.) ALSO BE BONDED TO PROVIDE A COMMON ELECTRICAL EQUIPMENTAL SYSTEM FOR ALL CONDUCTIVE ELEMENTS AND STRUCTURES.

- CONDUCTORS:
 - MIN #2 AWG SOLID BARE TINNED COPPER (SBTC) FOR ALL IN-GROUND CONDUCTORS.
 - MIN #2 AWG COPPER GREEN STRANDED FOR BONDING STRUCTURES, AND FOR INTER-SYSTEM BONDING OF INDIVIDUAL ELEMENTS SUCH AS GROUND BAR TO TOWER BAR.
 - MIN #6 AWG COPPER GREEN STRANDED OR ALL EQUIPMENT BONDING.
- INSTALL ALL IN-GROUND CONDUCTORS IN THE SAME HORIZONTAL PLANE OR IN A DOWNWARD DIRECTION AWAY FROM THE TOWER AND EQUIPMENT AREAS.
- AVOID LONG RUNS. MAKE DIRECT RUNS AS MUCH AS POSSIBLE.
- PLACE THROUGH NON-METALLIC SLEEVES WHEN PASSING THROUGH FLOORS, WALLS, CEILINGS, AND SIMILAR STRUCTURES.
- MAKE ALL CONNECTIONS IN CONTACT WITH EARTH WITH EXOTHERMIC WELDING. MAKE ALL OTHER CONNECTIONS WITH EXOTHERMIC WELDING, IRREVERSIBLE COMPRESSION CONNECTORS, OR LISTED CONDUIT CONNECTOR UNLESS OTHERWISE NOTED.
- INSTALL ALL CONDUCTORS WITH A MINIMUM 1/8" BEND RADIUS AND NO BEND LONGER THAN A 90 DEGREE ARC. ALL BENDS SHALL BE HORIZONTAL, OR DOWNWARD DIRECTION AWAY FROM THE TOWER.
- ALL CONDUCTORS PASSING FROM ABOVE-GROUND TO IN-GROUND CONNECTIONS, WHERE EXPOSED, SHALL BE COVERED AND PROTECTED WITH A NON-METALLIC CONDUIT SEALED AT BOTH ENDS.
- IF 2 OR MORE IN-GROUND CONDUCTORS ARE IN THE SAME PATH (2 RINGS OVERLAPPING, BONDING FOLLOWING ANOTHER RING OR RADIAL, OR SIMILAR), COMBINE WITH A SHARED SINGLE CONDUCTOR.

EQUIPMENT AND TOWER GROUND RINGS SHALL BE:

- BONDED TO ANY CONDUCTIVE OBJECT OR STRUCTURE WITHIN 5 FEET OF EQUIPMENT GROUND RINGS AND WITHIN 20 FEET OF TOWER GROUND RINGS.
- INSTALLED MINIMUM 18 INCHES FROM FOUNDATIONS, FOOTINGS, AND SIMILAR.

INSTALL ALL IN-GROUND RINGS, RADIALS, BONDS CONNECTING THEM, AND ALL SIMILAR GROUNDING:

- MIN 30 INCHES BELOW GRADE, OR 6 INCHES BELOW THE FROST LINE, WHICHEVER IS GREATER DEPTH.
- MIN 2 FEET FROM FOUNDATIONS, FOOTINGS, OTHER GROUNDING SYSTEMS, AND SIMILAR STRUCTURES, EXCEPT WHEN MAKING A BOND TO ANY OF THESE STRUCTURES. DO NOT BOND TO FOUNDATION INTERNAL REINFORCEMENT.

ALL EQUIPMENT GROUNDED IN A COMMON AREA, COMPOUND, STRUCTURE, OR SIMILAR SHALL BE BONDED TO A SINGLE-POINT GROUND, PREFERABLY AN ISOLATED GROUND BAR. BOND THE GROUND BAR TO THE SYSTEM WITH MINIMUM SINGLE BONDING CONDUCTOR. IF BONDING TO AN IN-GROUND RING, INSTALL 2 BONDING CONDUCTORS MINIMUM WITH EACH CONDUCTOR INSTALLED DIRECTIONALLY AWAY FROM EACH OTHER AND PARALLEL TO THE IN-GROUND CONDUCTOR, WITH NO TEE CONNECTIONS.

TOWER GROUNDING:

- EACH TOWER LEG SHALL BE BONDED TO ITS RING. SINGLE-LEGGED TOWERS, OR MONOPOLES, SHALL HAVE 2 BONDS ON OPPOSITE SIDES.
- BOND TO TOWER BASE. NOT TO VERTICAL TOWER STRUCTURE, AWAY FROM TOWER MOUNTING HARDWARE.
- EACH BOND SHALL HAVE A CORRESPONDING GROUND ROD ON THE RING.
- EACH BOND SHALL CONSIST OF 2 CONDUCTORS FROM THE TOWER TO ITS RING WITH EACH CONDUCTOR DIRECTED IN OPPOSITE DIRECTIONS WITH A PARALLEL CONNECTION TO THE RING ON OPPOSITE SIDES OF THE GROUND ROD.

EQUIPMENT AREA GROUNDING:

- COMMUNICATION AREAS ON EARTH SHALL HAVE A GROUND RING.
- BOND ALL EQUIPMENT TO A SINGLE-POINT GROUND (GROUND BAR).
- BOND THE EQUIPMENT SINGLE-POINT GROUND TO THE EQUIPMENT GROUND RING WITH MINIMUM 2 CONDUCTORS DIRECTED IN OPPOSITE DIRECTIONS WITH PARALLEL CONNECTIONS ON THE RING.
- IF EQUIPMENT IS ENCLOSED IN A SHELTER:
 - IF THE SHELTER IS CONSIDERED TO BE EXPOSED TO A DIRECT LIGHTNING STRIKE, INSTALL A BUILDING LIGHTNING PROTECTION SYSTEM PER APPLICABLE VERSION OF NFPA 780.
 - BOND ALL RIGID CONDUCTIVE COMPONENTS TOGETHER AND TO THE BUILDING RING GROUND AT THE CORNERS. THIS IS TYPICALLY CALLED THE HALO GROUND. DO NOT BOND EQUIPMENT TO THE HALO GROUND.
- BOND ALL EQUIPMENT TOGETHER TO A SINGLE-POINT OR INTERIOR EQUIPMENT RING GROUND (EGR). BOND THE SINGLE-POINT OR RING TO THE EXTERNAL EQUIPMENT RING GROUND.
- PLACE GROUND RODS AT THE EQUIPMENT GROUND RING CORNERS.

GROUND RODS:

- SEPARATION SPACE BETWEEN ANY 2 GROUND RODS SHALL BE NO CLOSER THAN THEIR DEPTH. THIS APPLIES TO ALL RODS IN THE COMPLETE SYSTEM.
- DRIVE VERTICALLY IN UNDISTURBED SOIL WITH THE TOP AT SAME DEPTH AS THE IN-GROUND CONDUCTOR. IF NOT POSSIBLE TO

INSTALL VERTICALLY, PLACE AS CLOSE TO VERTICAL AS POSSIBLE AND IN A DIRECTION AWAY FROM THE NEAREST ABOVE-GROUND CONDUCTIVE ELEMENT (TOWER, EQUIPMENT, ETC.).

RADIALS (TYP. NEW DEDICATED COMMUNICATION SITES):

- WHERE FEASIBLE WITH ENOUGH SPACE AVAILABLE, INSTALL A MINIMUM OF 4, MAXIMUM 10 RING RADIALS.
- EACH RADIALS LENGTH SHALL BE MIN 20 FT, MAX 80 FT.
- EXTEND RADIALS PERPENDICULAR FROM RINGS IN AS STRAIGHT LINE AS POSSIBLE, AWAY FROM OTHER RING GROUNDS, RADIALS, BONDS, AND SIMILAR.
- A COMMON PRACTICE IS TO PLACE 4 RADIALS FROM THE TOWER RING TO THE 4 CORNERS OF THE AVAILABLE AREA.
- AT A MINIMUM, BOND ALL COMPOUND CONDUCTIVE FENCE CORNER POSTS AND GATE POSTS TO THE LPSS. PREFERABLY, INSTALL A GROUND RING THAT FOLLOWS THE FENCE LINE, BONDING ALL POSTS TO THE RING.

27 ANTENNAS & CABLES:

THESE SPECIFICATIONS SHALL INCLUDE THE GENERAL SPECIFICATIONS HEREIN.

THE CONTRACTOR SHALL FURNISH AND INSTALL ALL TRANSMISSION CABLES, JUMPERS, CONNECTORS, GROUNDING STRAPS, ANTENNAS, MOUNT AND HARDWARE. ALL MATERIALS SHALL BE INSPECTED BY THE CONTRACTOR FOR DAMAGE UPON DELIVERY. JUMPERS SHALL BE SUPPLIED AT ANTENNAS AND EQUIPMENT INSIDE SHELTER. COORDINATE LENGTH OF JUMPER CABLES WITH OWNER. COORDINATE AND VERIFY ALL OF THE MATERIALS TO BE PROVIDED WITH OWNER PRIOR TO SUBMITTING BID AND ORDERING MATERIALS.

AFTER INSTALLATION, THE TRANSMISSION LINE SYSTEM SHALL BE PPM / SWEEP TESTED FOR DAMAGE FROM INSTALLATION AND DAMAGE WITH ANTENNAS CONNECTED. CONTRACTOR SHALL OBTAIN AND USE LATEST TESTING PROCEDURES FROM OWNER OR MANUFACTURER PRIOR TO BIDDING.

ANTENNA CABLES SHALL BE UNIQUELY COLOR-CODED AT THE ANTENNAS, BOTH SIDES OF EQUIPMENT SHELTER WALL, AND JUMPER CABLES AT THE EQUIPMENT.

THE CONTRACTOR SHALL FURNISH AND INSTALL ALL CONNECTORS, ASSOCIATED CABLE MOUNTING AND GROUNDING HARDWARE, WALL MOUNTS, STANDOFFS, AND ALL ASSOCIATED HARDWARE TO INSTALL ALL CABLES AND ANTENNAS TO THE MANUFACTURERS AND OWNERS SPECIFICATIONS.

ANTENNA CABLES SHALL BE FOAM DIELECTRIC COAXIAL CABLES AS FOLLOWS:

- BASE STATION ANTENNAS:
 - 7/8" DIAMETER FOR CABLE LENGTHS UP TO 100 FT.
 - 1-5/8" DIAMETER FOR CABLE LENGTHS GREATER THAN 100 FT.
- GPS ANTENNAS:
 - 7/8" DIAMETER FOR CABLE LENGTHS UP TO 200 FT.
 - 1-5/8" DIAMETER FOR CABLE LENGTHS GREATER THAN 200 FT.

MINIMUM BENDING RADIUS FOR COAXIAL CABLES SHALL BE:

- 15 FT FOR 7/8" COAXIAL CABLES.
- 25 FT FOR 1-5/8" COAXIAL CABLES.

CABLE SHALL BE INSTALLED WITH A MINIMUM NUMBER OF BENDS WHERE POSSIBLE. CABLE SHALL NOT BE LEFT UNTERMINATED AND SHALL BE SEALED IMMEDIATELY AFTER BEING INSTALLED.

ALL EXTERIOR CABLE CONNECTIONS SHALL BE COVERED WITH A WATERPROOF SPLICING KIT.

CABLE TRAY SHALL VERIFY EXACT LENGTH AND DIRECTION OF TRAVEL IN FIELD PRIOR TO CONSTRUCTION.

CABLE SHALL BE FURNISHED AND INSTALLED WITHOUT SPLICES AND WITH CONNECTORS AT EACH END.

27 CABLE TRAY:

THESE SPECIFICATIONS SHALL INCLUDE THE GENERAL SPECIFICATIONS HEREIN.

CABLE TRAY SHALL BE MADE OF EITHER CORROSION RESISTANT METAL OR WITH A CORROSION RESISTANT FINISH.

CABLE TRAY SHALL BE OF LADDER TRAY TYPE WITH FLAT COVER CLAMPED TO SIDE RAILS.

CABLE LADDER SHALL BE SIZED TO FIT ALL CABLES IN ACCORDANCE WITH NEC AND NEMA 11-18-84.

CABLE LADDER TRAYS SHALL BE NEMA CLASS 12A BY PAV INDUSTRIES, INC. OR EQUAL.

CABLE LADDER TRAY SHALL BE SUPPORTED IN ACCORDANCE WITH MANUFACTURERS SPECIFICATIONS.

ALL WORKMANSHIP SHALL CONFORM TO THESE REQUIREMENTS AND ALL LOCAL CODES AND STANDARDS TO ENSURE SAFE AND ADEQUATE GROUNDING SYSTEM.

INSTALL VERTICALLY, PLACE AS CLOSE TO VERTICAL AS POSSIBLE AND IN A DIRECTION AWAY FROM THE NEAREST ABOVE-GROUND CONDUCTIVE ELEMENT (TOWER, EQUIPMENT, ETC.).

RADIALS (TYP. NEW DEDICATED COMMUNICATION SITES):

- WHERE FEASIBLE WITH ENOUGH SPACE AVAILABLE, INSTALL A MINIMUM OF 4, MAXIMUM 10 RING RADIALS.
- EACH RADIALS LENGTH SHALL BE MIN 20 FT, MAX 80 FT.
- EXTEND RADIALS PERPENDICULAR FROM RINGS IN AS STRAIGHT LINE AS POSSIBLE, AWAY FROM OTHER RING GROUNDS, RADIALS, BONDS, AND SIMILAR.
- A COMMON PRACTICE IS TO PLACE 4 RADIALS FROM THE TOWER RING TO THE 4 CORNERS OF THE AVAILABLE AREA.
- AT A MINIMUM, BOND ALL COMPOUND CONDUCTIVE FENCE CORNER POSTS AND GATE POSTS TO THE LPSS. PREFERABLY, INSTALL A GROUND RING THAT FOLLOWS THE FENCE LINE, BONDING ALL POSTS TO THE RING.

27 ANTENNAS & CABLES:

THESE SPECIFICATIONS SHALL INCLUDE THE GENERAL SPECIFICATIONS HEREIN.

THE CONTRACTOR SHALL FURNISH AND INSTALL ALL TRANSMISSION CABLES, JUMPERS, CONNECTORS, GROUNDING STRAPS, ANTENNAS, MOUNT AND HARDWARE. ALL MATERIALS SHALL BE INSPECTED BY THE CONTRACTOR FOR DAMAGE UPON DELIVERY. JUMPERS SHALL BE SUPPLIED AT ANTENNAS AND EQUIPMENT INSIDE SHELTER. COORDINATE LENGTH OF JUMPER CABLES WITH OWNER. COORDINATE AND VERIFY ALL OF THE MATERIALS TO BE PROVIDED WITH OWNER PRIOR TO SUBMITTING BID AND ORDERING MATERIALS.

AFTER INSTALLATION, THE TRANSMISSION LINE SYSTEM SHALL BE PPM / SWEEP TESTED FOR DAMAGE FROM INSTALLATION AND DAMAGE WITH ANTENNAS CONNECTED. CONTRACTOR SHALL OBTAIN AND USE LATEST TESTING PROCEDURES FROM OWNER OR MANUFACTURER PRIOR TO BIDDING.

ANTENNA CABLES SHALL BE UNIQUELY COLOR-CODED AT THE ANTENNAS, BOTH SIDES OF EQUIPMENT SHELTER WALL, AND JUMPER CABLES AT THE EQUIPMENT.

THE CONTRACTOR SHALL FURNISH AND INSTALL ALL CONNECTORS, ASSOCIATED CABLE MOUNTING AND GROUNDING HARDWARE, WALL MOUNTS, STANDOFFS, AND ALL ASSOCIATED HARDWARE TO INSTALL ALL CABLES AND ANTENNAS TO THE MANUFACTURERS AND OWNERS SPECIFICATIONS.

ANTENNA CABLES SHALL BE FOAM DIELECTRIC COAXIAL CABLES AS FOLLOWS:

- BASE STATION ANTENNAS:
 - 7/8" DIAMETER FOR CABLE LENGTHS UP TO 100 FT.
 - 1-5/8" DIAMETER FOR CABLE LENGTHS GREATER THAN 100 FT.
- GPS ANTENNAS:
 - 7/8" DIAMETER FOR CABLE LENGTHS UP TO 200 FT.
 - 1-5/8" DIAMETER FOR CABLE LENGTHS GREATER THAN 200 FT.

MINIMUM BENDING RADIUS FOR COAXIAL CABLES SHALL BE:

- 15 FT FOR 7/8" COAXIAL CABLES.
- 25 FT FOR 1-5/8" COAXIAL CABLES.

CABLE SHALL BE INSTALLED WITH A MINIMUM NUMBER OF BENDS WHERE POSSIBLE. CABLE SHALL NOT BE LEFT UNTERMINATED AND SHALL BE SEALED IMMEDIATELY AFTER BEING INSTALLED.

ALL EXTERIOR CABLE CONNECTIONS SHALL BE COVERED WITH A WATERPROOF SPLICING KIT.

CABLE TRAY SHALL VERIFY EXACT LENGTH AND DIRECTION OF TRAVEL IN FIELD PRIOR TO CONSTRUCTION.

CABLE SHALL BE FURNISHED AND INSTALLED WITHOUT SPLICES AND WITH CONNECTORS AT EACH END.

27 CABLE TRAY:

THESE SPECIFICATIONS SHALL INCLUDE THE GENERAL SPECIFICATIONS HEREIN.

CABLE TRAY SHALL BE MADE OF EITHER CORROSION RESISTANT METAL OR WITH A CORROSION RESISTANT FINISH.

CABLE TRAY SHALL BE OF LADDER TRAY TYPE WITH FLAT COVER CLAMPED TO SIDE RAILS.

CABLE LADDER SHALL BE SIZED TO FIT ALL CABLES IN ACCORDANCE WITH NEC AND NEMA 11-18-84.

CABLE LADDER TRAYS SHALL BE NEMA CLASS 12A BY PAV INDUSTRIES, INC. OR EQUAL.


CABLE LADDER TRAY SHALL BE SUPPORTED IN ACCORDANCE WITH MANUFACTURERS SPECIFICATIONS.

ALL WORKMANSHIP SHALL CONFORM TO THESE REQUIREMENTS AND ALL LOCAL CODES AND STANDARDS TO ENSURE SAFE AND ADEQUATE GROUNDING SYSTEM.

Cellco Partnership db/a

verizon

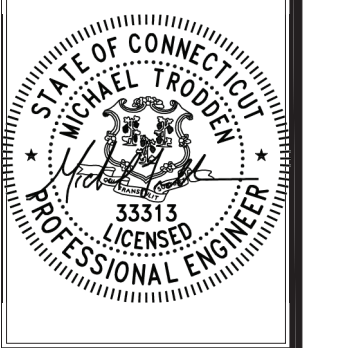
20 ALEXANDER DRIVE
WALLINGFORD, CT 06492



ALL-POINTS
TECHNOLOGY CORPORATION

567 VAUXHALL STREET EXTENSION - SUITE 311
WATERFORD, CT 06385 PHONE: (860)-963-1697
WWW.ALLPOINTSTECH.COM FAX: (860)-963-0935

| CONSTRUCTION DOCUMENTS | | |
|------------------------|----------|-----------------|
| NO | DATE | REVISION |
| 0 | 03/10/21 | FOR REVIEW: JRM |
| 1 | | |
| 2 | | |
| 3 | | |
| 4 | | |
| 5 | | |
| 6 | | |



DESIGN PROFESSIONALS OF RECORD

PROF: MICHAEL S. TRODDEN P.E.
COMP: ALL-POINTS TECHNOLOGY CORPORATION, P.C.
ADD: 567 VAUXHALL STREET EXT.
SUITE 311
WATERFORD, CT 06385

OWNER: TOWN OF NEW FAIRFIELD
ADDRESS: 4 BRUSH HILL ROAD
NEW FAIRFIELD, CT 06812

VERIZON AT

NEW FAIRFIELD 2 CT

SITE 302 BALL POND ROAD
ADDRESS: NEW FAIRFIELD, CT 06812

APT FILING NUMBER: CT141_12060

| | |
|------------------------|----------------------|
| DATE: 03/10/21 | DRAWN BY: DRA |
| CHECKED BY: JRM | |

VZW PROJECT CODE: 2021224293

VZW LOCATION CODE: 467504

VZW FUZE ID: 16416557

SHEET TITLE:

NOTES & SPECIFICATIONS

| |
|----------------------|
| SHEET NUMBER: |
|----------------------|



CELLFLEX®1-5/8" premium attenuation low loss flexible cable

FEATURES / BENEFITS

• **Ultra Low Attenuation**

The further reduced attenuation of CELLFLEX® premium attenuation coaxial cable results in extremely efficient signal transfer in your RF system, especially at high frequencies.

• **Complete Shielding**

The solid outer conductor of CELLFLEX® coaxial cable creates a continuous RFI/EMI shield that minimizes system interference.

• **Low VSWR**

Special low VSWR versions of CELLFLEX® coaxial cables contribute to low system noise.

• **Outstanding Intermodulation Performance**

CELLFLEX® coaxial cable's solid inner and outer conductors virtually eliminate intermods. Intermodulation performance is also confirmed with state-of-the-art equipment at the RFS factory.

• **High Power Rating**

Due to their low attenuation, outstanding heat transfer properties and temperature stabilized dielectric materials, CELLFLEX® cable provides safe long term operating life at high transmit power levels.

• **Wide Range of Application**

Typical areas of application are: feedlines for broadcast and terrestrial microwave antennas, wireless cellular, PCS and ESMR base stations, cabling of antenna arrays, and radio equipment interconnects.



1-5/8" CELLFLEX® Low-Loss Foam Dielectric Coaxial Cable

Technical features

APPLICATIONS

| | | |
|---------------------|--|--|
| Applications | | Main feed line, intended for outdoor usage |
|---------------------|--|--|

STRUCTURE

| | | |
|------------------------|---------|-----------------------------|
| Cable Type | | Foam-Dielectric, Corrugated |
| Size | | 1-5/8 |
| Jacket Option | | Black |
| Inner Conductor | mm (in) | 17.6 (0.69) |
| Dielectric | mm (in) | 42.4 (1.67) |
| Outer Conductor | mm (in) | 46.4 (1.83) |
| Jacket | mm (in) | 50.2 (1.98) |

TESTING AND ENVIRONMENTAL

| | | |
|---------------------------------|--------|------------------------|
| Fire Performance | | Halogene Free |
| Installation Temperature | °C(°F) | -40 to 60 (-40 to 140) |
| Storage Temperature | °C(°F) | -70 to 85 (-94 to 185) |
| Operation Temperature | °C(°F) | -50 to 85 (-58 to 185) |



ELECTRICAL SPECIFICATIONS

| | | |
|---|----------------------|--|
| Impedance, Ohm | Ω | 50 +/- 1 |
| Maximum Frequency | GHz | 2.75 |
| Velocity, percent | % | 90 |
| Capacitance | pF/m (pF/ft) | 74 (22.5) |
| Inductance, uH/m (uH/ft) | μH/m (μH/ft) | 0.185 (0.056) |
| Peak Power Rating | kW | 310 |
| RF Peak Voltage | Volts | 5600 |
| Jacket Spark | Volt RMS | 10000 |
| Inner Conductor dc Resistance, Ω/km (Ω/kft) | Ω/1000 m (Ω/1000 ft) | 1.3 (0.4) |
| Outer Conductor dc Resistance, ohm/1000 m (Ohm/1000 ft) | Ω/1000 m (Ω/1000 ft) | 0.47 (0.14) |
| Return Loss (VSWR) Performance | | Standard for 40-2700 MHz, Premium according to B-Class |
| Min. Return Loss (Max. VSWR) | dB (VSWR) | Standard 20 (1.222), Premium 24 (1.135) |
| Phase Stabilized | | Phase stabilized and phase matched cables and assemblies are available upon request. |
| Temperature & Power | | Standard |

MECHANICAL SPECIFICATIONS

| | | |
|--|--------------|-------------------|
| Cable Weight, Nominal | kg/m (lb/ft) | 1.07 (0.72) |
| Minimum Bending Radius, Single Bend | mm (in) | 200 (8) |
| Minimum Bending Radius, Repeated Bends | mm (in) | 500 (20) |
| Bending Moment, Nm (lb-ft) | Nm (lb*ft) | 42 (31) |
| Tensile Strength | N (lb) | 2500 (562) |
| Recommended / Maximum Clamp Spacing | m (ft) | 1.2 / 1.5 (4 / 5) |



ATTENUATION AND POWER RATING

| Frequency, MHz | dB per 100m | dB per 100ft | Power, kW |
|----------------|-------------|--------------|-----------|
| 0.5 | 0.04 | 0.01 | 258 |
| 1 | 0.06 | 0.02 | 182 |
| 1.5 | 0.08 | 0.02 | 148 |
| 2 | 0.09 | 0.03 | 128 |
| 10 | 0.20 | 0.06 | 56.90 |
| 20 | 0.28 | 0.09 | 39.90 |
| 30 | 0.35 | 0.11 | 32.50 |
| 50 | 0.45 | 0.14 | 25 |
| 88 | 0.60 | 0.18 | 18.60 |
| 100 | 0.64 | 0.20 | 17.40 |
| 108 | 0.67 | 0.21 | 16.70 |
| 150 | 0.80 | 0.24 | 14 |
| 174 | 0.86 | 0.26 | 13 |
| 200 | 0.93 | 0.28 | 12.10 |
| 300 | 1.16 | 0.35 | 9.66 |
| 400 | 1.35 | 0.41 | 8.30 |
| 450 | 1.44 | 0.44 | 7.78 |
| 500 | 1.53 | 0.47 | 7.33 |
| 512 | 1.55 | 0.47 | 7.23 |
| 600 | 1.69 | 0.52 | 6.63 |
| 700 | 1.84 | 0.56 | 6.09 |
| 750 | 1.91 | 0.58 | 5.87 |
| 800 | 1.98 | 0.60 | 5.66 |
| 824 | 2.02 | 0.62 | 5.55 |
| 894 | 2.11 | 0.64 | 5.31 |
| 900 | 2.12 | 0.65 | 5.29 |
| 925 | 2.15 | 0.66 | 5.21 |
| 960 | 2.20 | 0.67 | 5.10 |
| 1000 | 2.25 | 0.69 | 4.98 |
| 1250 | 2.56 | 0.78 | 4.38 |
| 1400 | 2.73 | 0.83 | 4.11 |
| 1500 | 2.84 | 0.87 | 3.95 |
| 1700 | 3.06 | 0.93 | 3.66 |
| 1800 | 3.16 | 0.96 | 3.55 |
| 2000 | 3.36 | 1.03 | 3.34 |
| 2100 | 3.46 | 1.06 | 3.24 |
| 2200 | 3.56 | 1.08 | 3.15 |
| 2400 | 3.75 | 1.14 | 2.99 |
| 2500 | 3.84 | 1.17 | 2.92 |
| 2600 | 3.93 | 1.20 | 2.85 |



| | | | |
|-------------|------|------|------|
| 2700 | 4.02 | 1.23 | 2.79 |
| 2750 | 4.07 | 1.24 | 2.75 |

External Document Links

Notes

Attachment 3



STRUCTURAL ANALYSIS REPORT
175-ft MONOPOLE TOWER
NEW FAIRFIELD, CONNECTICUT

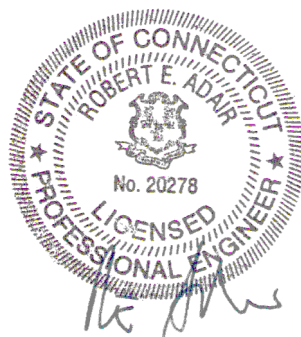
Prepared for
Verizon Wireless

Verizon Wireless Site Ref:
467504; New Fairfield 2 CT

Site Address: 302 Ball Pond Road, New Fairfield, Connecticut 06026

APT Filing No. CT141_12060

February 10, 2021
Revised: April 12, 2021



**STRUCTURAL ANALYSIS REPORT
175' MONOPOLE TOWER
NEW FAIRFIELD, CONNECTICUT
prepared for
Verizon Wireless**

EXECUTIVE SUMMARY:

All-Points Technology Corporation, P.C. (APT) performed a structural analysis of this 175-foot monopole tower located in New Fairfield, Connecticut. The analysis was performed for Verizon Wireless's proposed installation of six additional 1-5/8" feed lines to 125'. All other existing equipment is to remain as detailed below.

Our analysis indicates the tower and base foundation meet the requirements of the 2018 Connecticut State Building Code, International Building Code 2015 (IBC 2015) and TIA-222, Revision G (TIA) with the proposed equipment changes.

INTRODUCTION:

A structural analysis was performed on the above-mentioned communications tower by APT for Verizon Wireless. The subject tower is located at 302 Ball Pond Road in New Fairfield, Connecticut.

The following information was utilized in the preparation of this analysis:

- Tower Drawings by Fred A. Nudd Corporation dated February 14, 2003.
- Base Plate Reinforcement Drawings by Vertical Structures, Inc. dated April 28, 2005.
- Structural Analysis by Centek Engineering, project #12001.CO2 dated March 29, 2012.
- Tower Mapping by WesTower Communications dated July 18, 2014.
- Field notes & photos from APT's site visit on February 28, 2017.
- Structural Analysis Report by APT, project #CT141594 dated March 16, 2017.
- Design Exhibit by APT, dated March 24, 2017.
- PDF document containing AT&T upgrades and Structural Analysis from 2019.
- RFDS detailing Verizon Wireless's proposed equipment changes dated January 22, 2021.

The analysis was conducted with the following antenna inventory (proposed equipment shown in **bold** text):

| Carrier | Antenna and Appurtenance Make/Model | Elevation (AGL) | Status | Mount Type | Coax/Feed-Line |
|------------------|---|-----------------|-------------|-------------------------------------|---|
| Town | Lightning rod (4) PD-220 omnidirectional whips, 1' square panel, 2.5' dish with radome | 175' | E | 13' low-profile platform | (2) 3/8", (2) 7/8" |
| Sprint | (3) ET-X-TU-42-15-37-18 & (3) APXVTM14-G120 panels, (6) 1900MHz RRHs, (6) 800 MHz RRHs | 155' | E | 13' low-profile platform | (4) 1-1/4, (3) 7/8" |
| T-Mobile | (3) 81010022R3B, (3) 81010020R4B & (3) LNX-6515DS-VTM panels, (6) RRUS-11 RRHs | 145' | E | (3) 10' T-arms | (12) 1-5/8" |
| AT&T | (3) 7770.00, (2) HPA-65R-BUU-H6, (1) HPA-65R-BUU-H8 & (3) 800-10966 panels (3) 4449 RRHs, (6) RRUS-32 RRHs, (6) LGP 21401 TMAs, (2) surge suppressor | 135' | E | (3) 10' T-arms w/ reinforcement kit | (12) 1-5/8", (2) fiber, (4) DC power, (1) 2" conduit |
| Verizon Wireless | (6) LPA-80080/6CF, (3) BXA-171085/12 & (3) BXA-70063/6 panels | 125' | E E E | (3) 12' T-arms | (18) 1-5/8" |
| - | PD-220 omnidirectional whip | 100' | E | 4' standoff | 7/8" |
| Sprint | Vacant Collar | 84' | E | Empty Collar | N.A. |

Notes:

1. E = Existing; P = Proposed.

STRUCTURAL ANALYSIS:

Methodology:

This structural analysis has been prepared in accordance with the ANSI TIA-222-G standard entitled "Structural Standards for Steel Antenna Towers and Antenna Supporting Structures," the American Institute of Steel Construction (AISC) Manual of Steel Construction, 2018 Connecticut State Building Code and IBC 2015.

Antenna, appurtenance and mount assembly loads were evaluated utilizing the ANSI TIA-222-G standard.

- o Load Case 1: 115 mph (3-second gust), 0" ice
- o Load Case 2: 50mph (3-second gust) w/ 0.75in ice thickness
- o Load Case 3: 60mph (3-second gust) (Service Load)
- o Structure Class: II
- o Exposure Category: B
- o Topographic Category: 1

ANALYSIS RESULTS:

The analysis was conducted in accordance with the criteria outlined above with the aforementioned existing and proposed equipment loading. The following table summarizes the results of the analysis:

| Elevation | Pole Capacity ¹ |
|-----------|----------------------------|
| 130'-175' | 23% |
| 85'-130' | 41% |
| 41'-85' | 43% |
| 0'-41' | 51% |

Notes:

1. Based on ASTM A572 Gr. 65 tapered pole.

Foundation:

The existing base plate was evaluated from Vertical Structures, Inc. base plate reinforcement drawings. Base plate reinforcement was conducted in 2005 for an overturning moment reaction of 4370 ft-kips; calculated overturning moment with the proposed equipment changes is only 2905 ft-kips. Additional anchor bolts have since been added as well. The existing base plate is adequate to support the proposed loads.

The existing reinforced concrete mat and pier foundation was evaluated from Fred A. Nudd Corporation design drawings. We found the existing foundation is adequately sized to support the proposed equipment changes. Factored base reactions imposed with the proposed changes were calculated to be as follows:

| Load Effect | Factored Reactions |
|--------------------|--------------------|
| Compression | 57.5 k |
| Total Shear | 25.4 k |
| Overturning Moment | 2964 ft-k |

CONCLUSIONS AND SUGGESTIONS:

As detailed above, our analysis indicates that the existing 175' monopole tower and base foundation in New Fairfield, Connecticut meet the requirements of the 2018 Connecticut State Building Code, IBC 2015 and TIA-222, Revision G (TIA) with Verizon Wireless's proposed changes.

LIMITATIONS:

This report is based on the following:

1. Tower is properly installed and maintained.
2. All members are in an undeteriorated condition.
3. All bolts are in place and are properly tightened.
4. Tower is in plumb condition.
5. All tower members were properly designed, detailed, fabricated, and installed and have been properly maintained since erection.
6. Record drawings accurately reflect tower dimensions and height.

All-Points Technology Corporation, P.C. (APT) is not responsible for any modifications completed prior to or hereafter which APT is not or was not directly involved. Modifications include but are not limited to:

1. Adding or relocating antennas.
2. Installing antenna mounting gates or side arms.
3. Extending tower.

APT hereby states that this document represents the entire report and that it assumes no liability for any factual changes that may occur after the date of this report. All representations, recommendations, and conclusions are based upon the information contained and set forth herein. If you are aware of any information which conflicts with that which is contained herein, or you are aware of any defects arising from original design, material, fabrication, or erection deficiencies, you should disregard this report and immediately contact APT. APT disclaims all liability for any representation, recommendation, or conclusion not expressly stated herein.

Appendix A

Tower Schematic

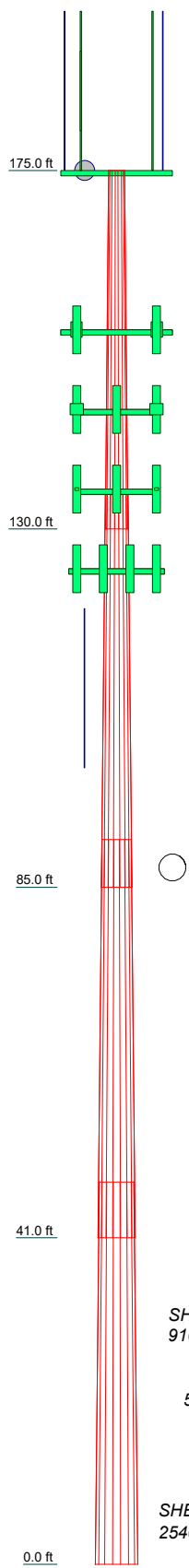
DESIGNED APPURTENANCE LOADING

| TYPE | ELEVATION | TYPE | ELEVATION |
|-------------------------------------|-----------|--------------------------------------|-----------|
| 1' square panel (Town) | 175 | 800-10966 (ATI) | 135 |
| 20' x 2.5" omni whip (Town) | 175 | 800-10966 (ATI) | 135 |
| 20' x 2.5" omni whip (Town) | 175 | 800-10966 (ATI) | 135 |
| 20' x 2.5" omni whip (Town) | 175 | HPA-65R-BUU-H6 (ATI) | 135 |
| 20' x 2.5" omni whip (Town) | 175 | HPA-65R-BUU-H8 (ATI) | 135 |
| 1' x 1/2" lightning rod (Town) | 175 | HPA-65R-BUU-H6 (ATI) | 135 |
| 13' low-profile platform (Town) | 175 | (2) Ericsson RRUS-32 (ATI) | 135 |
| 2.5' dish with radome | 175 | (2) Ericsson RRUS-32 (ATI) | 135 |
| APXVTM14-G-120 (Sprint) | 155 | (2) Ericsson RRUS-32 (ATI) | 135 |
| APXVTM14-G-120 (Sprint) | 155 | Radio 4449 (ATI) | 135 |
| ET-X-TU-42-15-37-18 (Sprint) | 155 | Radio 4449 (ATI) | 135 |
| ET-X-TU-42-15-37-18 (Sprint) | 155 | Radio 4449 (ATI) | 135 |
| ET-X-TU-42-15-37-18 (Sprint) | 155 | (2) LGP2190X Diplexer (ATI) | 135 |
| (2) 800 MHz RRH (Sprint) | 155 | (2) LGP2190X Diplexer (ATI) | 135 |
| (2) 800 MHz RRH (Sprint) | 155 | (2) LGP2190X Diplexer (ATI) | 135 |
| (2) 800 MHz RRH (Sprint) | 155 | Raycap DC6-48 surge suppressor (ATI) | 135 |
| (2) 1900 MHz RRH (Sprint) | 155 | Raycap DC6-48 surge suppressor (ATI) | 135 |
| (2) 1900 MHz RRH (Sprint) | 155 | Raycap DC6-48 surge suppressor (ATI) | 135 |
| (2) 1900 MHz RRH (Sprint) | 155 | 10' T-arm (ATI) | 135 |
| (2) 1.5' x 2-3/8" standoff (Sprint) | 155 | 10' T-arm (ATI) | 135 |
| (2) 1.5' x 2-3/8" standoff (Sprint) | 155 | 10' T-arm (ATI) | 135 |
| (2) 1.5' x 2-3/8" standoff (Sprint) | 155 | SFR-K reinf. kit (ATI) | 135 |
| 13' low-profile platform (Sprint) | 155 | SFR-K reinf. kit (ATI) | 135 |
| APXVTM14-G-120 (Sprint) | 155 | SFR-K reinf. kit (ATI) | 135 |
| 81010022R3B (T-Mobile) | 145 | 7770.00 (ATI) | 135 |
| 81010022R3B (T-Mobile) | 145 | (2) LPA-80080/6 (VzW) | 125 |
| 81010020R4B (T-Mobile) | 145 | (2) LPA-80080/6 (VzW) | 125 |
| 81010020R4B (T-Mobile) | 145 | BXA-171085/12 (VzW) | 125 |
| 81010020R4B (T-Mobile) | 145 | BXA-171085/12 (VzW) | 125 |
| (2) Ericsson RRUS-11 (T-Mobile) | 145 | BXA-171085/12 (VzW) | 125 |
| (2) Ericsson RRUS-11 (T-Mobile) | 145 | BXA-171085/12 (VzW) | 125 |
| (2) Ericsson RRUS-11 (T-Mobile) | 145 | BXA-70063/6 (VzW) | 125 |
| LNX-6515DS-T4M (T-Mobile) | 145 | BXA-70063/6 (VzW) | 125 |
| LNX-6515DS-T4M (T-Mobile) | 145 | BXA-70063/6 (VzW) | 125 |
| LNX-6515DS-T4M (T-Mobile) | 145 | 12' T-arm (VzW) | 125 |
| LNX-6515DS-T4M (T-Mobile) | 145 | 12' T-arm (VzW) | 125 |
| 10' T-arm (T-Mobile) | 145 | 12' T-arm (VzW) | 125 |
| 10' T-arm (T-Mobile) | 145 | (2) LPA-80080/6 (VzW) | 125 |
| 10' T-arm (T-Mobile) | 145 | 20' x 2.5" omni whip | 120 - 100 |
| 81010022R3B (T-Mobile) | 145 | 4' x 4" standoff | 100 |
| 7770.00 (ATI) | 135 | | |
| 7770.00 (ATI) | 135 | | |

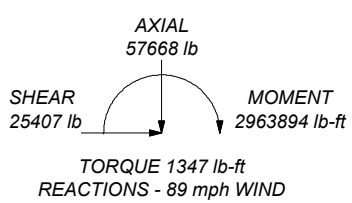
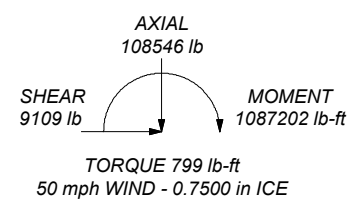
MATERIAL STRENGTH

| GRADE | Fy | Fu | GRADE | Fy | Fu |
|---------|--------|--------|-------|----|----|
| A572-65 | 65 ksi | 80 ksi | | | |

| Section | Length (ft) | Number of Sides | Thickness (in) | Socket Length (ft) | Top Dia (in) | Bot Dia (in) | Grade | Weight (lb) |
|---------|-------------|-----------------|----------------|--------------------|--------------|--------------|---------|-------------|
| 1 | 45.00 | 18 | 0.2500 | 5.00 | 24.0000 | 34.9000 | | 3548.0 |
| 2 | 50.00 | 18 | 0.3125 | 6.00 | 33.1889 | 45.3000 | A572-65 | 6570.0 |
| 3 | 50.00 | 18 | 0.3750 | 7.00 | 43.2217 | 55.3328 | A572-65 | 9903.1 |
| 4 | 48.00 | 18 | 0.3750 | 52.8872 | 64.5139 | | | 11339.0 |
| | | | | | | | | 31360.1 |



ALL REACTIONS
ARE FACTORED



| | | | |
|------------------------------------|--|---|---------------------|
| All-Points Technology Corp. | | Job: 175' Monopole Tower | |
| 567 Vauxhall St. Ext. Suite 311 | | Project: CT141 12060 New Fairfield | |
| Waterford, CT 06385 | | Client: VzW Site New Fairfield 2 CT | Drawn by: M. Larson |
| Phone: (860) 663-1697 | | Code: TIA-222-G | Date: 04/12/21 |
| FAX: (860) 663-0935 | | Path: | Scale: NTS |
| | | Dwg No. E-1 | |

Appendix B

Calculations

| | | | | |
|---|----------------|-----------------------------|--------------------|-------------------|
| tnxTower All-Points Technology Corp. 567 Vauxhall St. Ext. Suite 311 Waterford, CT 06385 Phone: (860) 663-1697 FAX: (860) 663-0935 | Job | 175' Monopole Tower | Page | 1 of 7 |
| | Project | CT141_12060 New Fairfield | Date | 08:40:44 04/12/21 |
| | Client | VzW Site New Fairfield 2 CT | Designed by | M. Larson |

Tower Input Data

The tower is a monopole.

This tower is designed using the TIA-222-G standard.

The following design criteria apply:

ASCE 7-10 Wind Data is used (wind speeds converted to nominal values).

Basic wind speed of 89 mph.

Ultimate wind speed of 115 mph.

Structure Class II.

Exposure Category B.

Topographic Category 1.

Crest Height 0.00 ft.

Nominal ice thickness of 0.7500 in.

Ice thickness is considered to increase with height.

Ice density of 56 pcf.

A wind speed of 50 mph is used in combination with ice.

Temperature drop of 50 °F.

Deflections calculated using a wind speed of 60 mph.

A non-linear (P-delta) analysis was used.

Pressures are calculated at each section.

Stress ratio used in pole design is 1.

Local bending stresses due to climbing loads, feed line supports, and appurtenance mounts are not considered.

Feed Line/Linear Appurtenances

| <i>Description</i> | <i>Face or Leg</i> | <i>Allow Shield</i> | <i>Exclude From Torque Calculation</i> | <i>Component Type</i> | <i>Placement ft</i> | <i>Total Number</i> | | <i>C_AA_A</i> <i>ft²/ft</i> | <i>Weight</i> <i>plf</i> |
|-----------------------------|--------------------|---------------------|--|-----------------------|---------------------|---------------------|----------|---|-----------------------------|
| 3/8 (Town) | C | No | Yes | Inside Pole | 175.00 - 6.00 | 2 | No Ice | 0.00 | 0.08 |
| | | | | | | | 1/2" Ice | 0.00 | 0.08 |
| | | | | | | | 1" Ice | 0.00 | 0.08 |
| 7/8 (Town) | C | No | Yes | Inside Pole | 175.00 - 6.00 | 2 | No Ice | 0.00 | 0.54 |
| | | | | | | | 1/2" Ice | 0.00 | 0.54 |
| | | | | | | | 1" Ice | 0.00 | 0.54 |
| 1 5/8 (T-Mobile) | C | No | Yes | Inside Pole | 145.00 - 6.00 | 12 | No Ice | 0.00 | 1.04 |
| | | | | | | | 1/2" Ice | 0.00 | 1.04 |
| | | | | | | | 1" Ice | 0.00 | 1.04 |
| 1 5/8 (AT&T) | C | No | Yes | Inside Pole | 135.00 - 6.00 | 12 | No Ice | 0.00 | 1.04 |
| | | | | | | | 1/2" Ice | 0.00 | 1.04 |
| | | | | | | | 1" Ice | 0.00 | 1.04 |
| 1.34" fiber cable (AT&T) | C | No | Yes | Inside Pole | 135.00 - 6.00 | 2 | No Ice | 0.00 | 0.66 |
| | | | | | | | 1/2" Ice | 0.00 | 0.66 |
| | | | | | | | 1" Ice | 0.00 | 0.66 |
| 5/8 power (AT&T) | C | No | Yes | Inside Pole | 135.00 - 6.00 | 4 | No Ice | 0.00 | 0.40 |
| | | | | | | | 1/2" Ice | 0.00 | 0.40 |
| | | | | | | | 1" Ice | 0.00 | 0.40 |
| 2" conduit (AT&T) | C | No | Yes | Inside Pole | 135.00 - 6.00 | 1 | No Ice | 0.00 | 2.00 |
| | | | | | | | 1/2" Ice | 0.00 | 2.00 |
| | | | | | | | 1" Ice | 0.00 | 2.00 |
| 1 5/8 (VzW) | C | No | Yes | Inside Pole | 125.00 - 6.00 | 18 | No Ice | 0.00 | 1.04 |
| | | | | | | | 1/2" Ice | 0.00 | 1.04 |
| | | | | | | | 1" Ice | 0.00 | 1.04 |
| Safety Line 3/8 | C | No | Yes | CaAa (Out Of Face) | 175.00 - 0.00 | 1 | No Ice | 0.04 | 0.22 |
| | | | | | | | 1/2" Ice | 0.14 | 0.75 |
| | | | | | | | 1" Ice | 0.24 | 1.28 |

| | | | | |
|---|----------------|-----------------------------|--------------------|-------------------|
| tnxTower All-Points Technology Corp. 567 Vauxhall St. Ext. Suite 311 Waterford, CT 06385 Phone: (860) 663-1697 FAX: (860) 663-0935 | Job | 175' Monopole Tower | Page | 2 of 7 |
| | Project | CT141_12060 New Fairfield | Date | 08:40:44 04/12/21 |
| | Client | VzW Site New Fairfield 2 CT | Designed by | M. Larson |

| Description | Face or Leg | Allow Shield | Exclude From Torque Calculation | Component Type | Placement ft | Total Number | | C _{AA} ft ² /ft | Weight plf |
|--|-------------|--------------|---------------------------------|----------------|---------------|--------------|----------|-------------------------------------|------------|
| 7/8 (-) | C | No | Yes | Inside Pole | 100.00 - 6.00 | 1 | No Ice | 0.00 | 0.54 |
| | | | | | | | 1/2" Ice | 0.00 | 0.54 |
| | | | | | | | 1" Ice | 0.00 | 0.54 |
| 1-1/4" Hybrid fiber-power cable (Sprint) | C | No | Yes | Inside Pole | 155.00 - 6.00 | 4 | No Ice | 0.00 | 1.30 |
| | | | | | | | 1/2" Ice | 0.00 | 1.30 |
| | | | | | | | 1" Ice | 0.00 | 1.30 |
| 7/8 (Sprint) | C | No | Yes | Inside Pole | 155.00 - 6.00 | 3 | No Ice | 0.00 | 0.54 |
| | | | | | | | 1/2" Ice | 0.00 | 0.54 |
| | | | | | | | 1" Ice | 0.00 | 0.54 |

Discrete Tower Loads

| Description | Face or Leg | Offset Type | Offsets: Horz Lateral Vert ft ft ft | Azimuth Adjustment ° | Placement ft | | C _{AA} Front ft ² | C _{AA} Side ft ² | Weight lb |
|---------------------------------|-------------|-------------|-------------------------------------|----------------------|--------------|----------|---------------------------------------|--------------------------------------|-----------|
| 1' square panel (Town) | A | From Face | 4.00 0.00 0.00 | 0.0000 | 175.00 | No Ice | 1.20 | 0.32 | 15.00 |
| | | | | | | 1/2" Ice | 1.34 | 0.40 | 22.91 |
| | | | | | | 1" Ice | 1.48 | 0.49 | 32.76 |
| 20' x 2.5" omni whip (Town) | A | From Face | 4.00 -4.50 10.00 | 0.0000 | 175.00 | No Ice | 5.00 | 5.00 | 50.00 |
| | | | | | | 1/2" Ice | 7.03 | 7.03 | 86.96 |
| | | | | | | 1" Ice | 9.07 | 9.07 | 136.55 |
| 20' x 2.5" omni whip (Town) | B | From Face | 4.00 3.00 10.00 | 0.0000 | 175.00 | No Ice | 5.00 | 5.00 | 50.00 |
| | | | | | | 1/2" Ice | 7.03 | 7.03 | 86.96 |
| | | | | | | 1" Ice | 9.07 | 9.07 | 136.55 |
| 20' x 2.5" omni whip (Town) | C | From Face | 4.00 -4.50 10.00 | 0.0000 | 175.00 | No Ice | 5.00 | 5.00 | 50.00 |
| | | | | | | 1/2" Ice | 7.03 | 7.03 | 86.96 |
| | | | | | | 1" Ice | 9.07 | 9.07 | 136.55 |
| 20' x 2.5" omni whip (Town) | C | From Face | 4.00 4.50 10.00 | 0.0000 | 175.00 | No Ice | 5.00 | 5.00 | 50.00 |
| | | | | | | 1/2" Ice | 7.03 | 7.03 | 86.96 |
| | | | | | | 1" Ice | 9.07 | 9.07 | 136.55 |
| 1' x 1/2" lightning rod (Town) | C | From Face | 4.00 4.50 10.00 | 0.0000 | 175.00 | No Ice | 0.05 | 0.05 | 7.00 |
| | | | | | | 1/2" Ice | 0.11 | 0.11 | 7.67 |
| | | | | | | 1" Ice | 0.19 | 0.19 | 9.15 |
| 13' low-profile platform (Town) | A | None | | 0.0000 | 175.00 | No Ice | 12.14 | 10.50 | 1100.00 |
| | | | | | | 1/2" Ice | 13.06 | 11.31 | 1880.30 |
| | | | | | | 1" Ice | 13.99 | 12.12 | 2680.26 |
| APXVTM14-G-120 (Sprint) | A | From Face | 4.00 0.00 0.00 | 0.0000 | 155.00 | No Ice | 6.34 | 3.61 | 60.00 |
| | | | | | | 1/2" Ice | 6.72 | 3.97 | 99.53 |
| | | | | | | 1" Ice | 7.10 | 4.33 | 144.12 |
| APXVTM14-G-120 (Sprint) | B | From Face | 4.00 0.00 0.00 | 0.0000 | 155.00 | No Ice | 6.34 | 3.61 | 60.00 |
| | | | | | | 1/2" Ice | 6.72 | 3.97 | 99.53 |
| | | | | | | 1" Ice | 7.10 | 4.33 | 144.12 |
| APXVTM14-G-120 (Sprint) | C | From Face | 4.00 0.00 0.00 | 0.0000 | 155.00 | No Ice | 6.34 | 3.61 | 60.00 |
| | | | | | | 1/2" Ice | 6.72 | 3.97 | 99.53 |
| | | | | | | 1" Ice | 7.10 | 4.33 | 144.12 |
| ET-X-TU-42-15-37-18 (Sprint) | A | From Face | 4.00 0.00 0.00 | 0.0000 | 155.00 | No Ice | 7.28 | 3.29 | 65.00 |
| | | | | | | 1/2" Ice | 7.64 | 3.59 | 110.77 |
| | | | | | | 1" Ice | 8.00 | 3.90 | 161.48 |
| ET-X-TU-42-15-37-18 (Sprint) | B | From Face | 4.00 0.00 0.00 | 0.0000 | 155.00 | No Ice | 7.28 | 3.29 | 65.00 |
| | | | | | | 1/2" Ice | 7.64 | 3.59 | 110.77 |
| | | | | | | 1" Ice | 8.00 | 3.90 | 161.48 |
| ET-X-TU-42-15-37-18 (Sprint) | C | From Face | 4.00 0.00 0.00 | 0.0000 | 155.00 | No Ice | 7.28 | 3.29 | 65.00 |
| | | | | | | 1/2" Ice | 7.64 | 3.59 | 110.77 |
| | | | | | | 1" Ice | 8.00 | 3.90 | 161.48 |

| | | | | |
|---|----------------|-----------------------------|--------------------|-------------------|
| tnxTower All-Points Technology Corp. 567 Vauxhall St. Ext. Suite 311 Waterford, CT 06385 Phone: (860) 663-1697 FAX: (860) 663-0935 | Job | 175' Monopole Tower | Page | 3 of 7 |
| | Project | CT141_12060 New Fairfield | Date | 08:40:44 04/12/21 |
| | Client | VzW Site New Fairfield 2 CT | Designed by | M. Larson |

| Description | Face or Leg | Offset Type | Offsets: | | Azimuth Adjustment | Placement | C _{AA} | | Weight |
|-------------------------------------|-------------|-------------|----------|--------|--------------------|-----------|-----------------|-----------------|---------|
| | | | Horz | Vert | | | Front | Side | |
| | | | ft | ft | ° | ft | ft ² | ft ² | lb |
| (2) 800 MHz RRH (Sprint) | A | From Face | 4.00 | 0.0000 | 155.00 | No Ice | 2.43 | 2.95 | 82.00 |
| | | | 0.00 | | | 1/2" Ice | 2.62 | 3.17 | 112.15 |
| | | | 0.00 | | | 1" Ice | 2.83 | 3.39 | 145.84 |
| (2) 800 MHz RRH (Sprint) | B | From Face | 4.00 | 0.0000 | 155.00 | No Ice | 2.43 | 2.95 | 82.00 |
| | | | 0.00 | | | 1/2" Ice | 2.62 | 3.17 | 112.15 |
| | | | 0.00 | | | 1" Ice | 2.83 | 3.39 | 145.84 |
| (2) 800 MHz RRH (Sprint) | C | From Face | 4.00 | 0.0000 | 155.00 | No Ice | 2.43 | 2.95 | 82.00 |
| | | | 0.00 | | | 1/2" Ice | 2.62 | 3.17 | 112.15 |
| | | | 0.00 | | | 1" Ice | 2.83 | 3.39 | 145.84 |
| (2) 1900 MHz RRH (Sprint) | A | From Face | 4.00 | 0.0000 | 155.00 | No Ice | 3.26 | 2.49 | 144.00 |
| | | | 0.00 | | | 1/2" Ice | 3.48 | 2.70 | 175.27 |
| | | | 0.00 | | | 1" Ice | 3.72 | 2.91 | 210.18 |
| (2) 1900 MHz RRH (Sprint) | B | From Face | 4.00 | 0.0000 | 155.00 | No Ice | 3.26 | 2.49 | 144.00 |
| | | | 0.00 | | | 1/2" Ice | 3.48 | 2.70 | 175.27 |
| | | | 0.00 | | | 1" Ice | 3.72 | 2.91 | 210.18 |
| (2) 1900 MHz RRH (Sprint) | C | From Face | 4.00 | 0.0000 | 155.00 | No Ice | 3.26 | 2.49 | 144.00 |
| | | | 0.00 | | | 1/2" Ice | 3.48 | 2.70 | 175.27 |
| | | | 0.00 | | | 1" Ice | 3.72 | 2.91 | 210.18 |
| (2) 1.5' x 2-3/8" standoff (Sprint) | A | None | | 0.0000 | 155.00 | No Ice | 0.24 | 0.24 | 10.00 |
| | | | | | | 1/2" Ice | 0.34 | 0.34 | 12.92 |
| | | | | | | 1" Ice | 0.45 | 0.45 | 17.16 |
| (2) 1.5' x 2-3/8" standoff (Sprint) | B | None | | 0.0000 | 155.00 | No Ice | 0.24 | 0.24 | 10.00 |
| | | | | | | 1/2" Ice | 0.34 | 0.34 | 12.92 |
| | | | | | | 1" Ice | 0.45 | 0.45 | 17.16 |
| (2) 1.5' x 2-3/8" standoff (Sprint) | C | None | | 0.0000 | 155.00 | No Ice | 0.24 | 0.24 | 10.00 |
| | | | | | | 1/2" Ice | 0.34 | 0.34 | 12.92 |
| | | | | | | 1" Ice | 0.45 | 0.45 | 17.16 |
| 13' low-profile platform (Sprint) | C | None | | 0.0000 | 155.00 | No Ice | 12.14 | 10.50 | 1100.00 |
| | | | | | | 1/2" Ice | 13.06 | 11.31 | 1880.30 |
| | | | | | | 1" Ice | 13.99 | 12.12 | 2680.26 |
| 81010022R3B (T-Mobile) | A | From Face | 4.00 | 0.0000 | 145.00 | No Ice | 6.16 | 4.31 | 95.00 |
| | | | 0.00 | | | 1/2" Ice | 6.60 | 4.66 | 136.89 |
| | | | 0.00 | | | 1" Ice | 7.03 | 5.02 | 183.90 |
| 81010022R3B (T-Mobile) | B | From Face | 4.00 | 0.0000 | 145.00 | No Ice | 6.16 | 4.31 | 95.00 |
| | | | 0.00 | | | 1/2" Ice | 6.60 | 4.66 | 136.89 |
| | | | 0.00 | | | 1" Ice | 7.03 | 5.02 | 183.90 |
| 81010022R3B (T-Mobile) | C | From Face | 4.00 | 0.0000 | 145.00 | No Ice | 6.16 | 4.31 | 95.00 |
| | | | 0.00 | | | 1/2" Ice | 6.60 | 4.66 | 136.89 |
| | | | 0.00 | | | 1" Ice | 7.03 | 5.02 | 183.90 |
| 81010020R4B (T-Mobile) | A | From Face | 4.00 | 0.0000 | 145.00 | No Ice | 6.00 | 4.31 | 95.00 |
| | | | 0.00 | | | 1/2" Ice | 7.50 | 4.66 | 136.89 |
| | | | 0.00 | | | 1" Ice | 9.00 | 5.02 | 183.90 |
| 81010020R4B (T-Mobile) | B | From Face | 4.00 | 0.0000 | 145.00 | No Ice | 6.00 | 4.31 | 95.00 |
| | | | 0.00 | | | 1/2" Ice | 7.50 | 4.66 | 136.89 |
| | | | 0.00 | | | 1" Ice | 9.00 | 5.02 | 183.90 |
| 81010020R4B (T-Mobile) | C | From Face | 4.00 | 0.0000 | 145.00 | No Ice | 6.00 | 4.31 | 95.00 |
| | | | 0.00 | | | 1/2" Ice | 7.50 | 4.66 | 136.89 |
| | | | 0.00 | | | 1" Ice | 9.00 | 5.02 | 183.90 |
| (2) Ericsson RRUS-11 (T-Mobile) | A | From Face | 3.50 | 0.0000 | 145.00 | No Ice | 2.79 | 1.02 | 55.00 |
| | | | 0.00 | | | 1/2" Ice | 3.00 | 1.16 | 75.86 |
| | | | 0.00 | | | 1" Ice | 3.21 | 1.30 | 99.77 |
| (2) Ericsson RRUS-11 (T-Mobile) | B | From Face | 3.50 | 0.0000 | 145.00 | No Ice | 2.79 | 1.02 | 55.00 |
| | | | 0.00 | | | 1/2" Ice | 3.00 | 1.16 | 75.86 |
| | | | 0.00 | | | 1" Ice | 3.21 | 1.30 | 99.77 |
| (2) Ericsson RRUS-11 (T-Mobile) | C | From Face | 3.50 | 0.0000 | 145.00 | No Ice | 2.79 | 1.02 | 55.00 |
| | | | 0.00 | | | 1/2" Ice | 3.00 | 1.16 | 75.86 |
| | | | 0.00 | | | 1" Ice | 3.21 | 1.30 | 99.77 |

| | | | | | | | | |
|---|----------------|--|-----------------------------|--|--------------------|--|-------------------|--|
| tnxTower All-Points Technology Corp. 567 Vauxhall St. Ext. Suite 311 Waterford, CT 06385 Phone: (860) 663-1697 FAX: (860) 663-0935 | Job | | 175' Monopole Tower | | Page | | 4 of 7 | |
| | Project | | CT141_12060 New Fairfield | | Date | | 08:40:44 04/12/21 | |
| | Client | | VzW Site New Fairfield 2 CT | | Designed by | | M. Larson | |

| Description | Face or Leg | Offset Type | Offsets: | | Azimuth Adjustment | Placement | C _{AA} Front | C _{AA} Side | Weight |
|-----------------------------|-------------|-------------|----------|--------|--------------------|-----------|-----------------------|----------------------|--------|
| | | | Horz | Vert | | | | | |
| | | | ft | ft | ° | ft | ft ² | ft ² | lb |
| LNX-6515DS-T4M (T-Mobile) | A | From Face | 4.00 | 0.0000 | | 145.00 | No Ice 11.39 | 7.66 | 50.00 |
| | | | 0.00 | | | | 1/2" Ice 12.01 | 8.25 | 115.61 |
| | | | 0.00 | | | | 1" Ice 12.63 | 8.84 | 188.87 |
| LNX-6515DS-T4M (T-Mobile) | B | From Face | 4.00 | 0.0000 | | 145.00 | No Ice 11.39 | 7.66 | 50.00 |
| | | | 0.00 | | | | 1/2" Ice 12.01 | 8.25 | 115.61 |
| | | | 0.00 | | | | 1" Ice 12.63 | 8.84 | 188.87 |
| LNX-6515DS-T4M (T-Mobile) | C | From Face | 4.00 | 0.0000 | | 145.00 | No Ice 11.39 | 7.66 | 50.00 |
| | | | 0.00 | | | | 1/2" Ice 12.01 | 8.25 | 115.61 |
| | | | 0.00 | | | | 1" Ice 12.63 | 8.84 | 188.87 |
| 10' T-arm (T-Mobile) | A | None | | 0.0000 | | 145.00 | No Ice 1.67 | 1.67 | 150.00 |
| | | | | | | | 1/2" Ice 2.94 | 2.94 | 547.19 |
| | | | | | | | 1" Ice 3.56 | 3.56 | 956.95 |
| 10' T-arm (T-Mobile) | B | None | | 0.0000 | | 145.00 | No Ice 1.67 | 1.67 | 150.00 |
| | | | | | | | 1/2" Ice 2.94 | 2.94 | 547.19 |
| | | | | | | | 1" Ice 3.56 | 3.56 | 956.95 |
| 10' T-arm (T-Mobile) | C | None | | 0.0000 | | 145.00 | No Ice 1.67 | 1.67 | 150.00 |
| | | | | | | | 1/2" Ice 2.94 | 2.94 | 547.19 |
| | | | | | | | 1" Ice 3.56 | 3.56 | 956.95 |
| 7770.00 (AT&T) | A | From Face | 4.00 | 0.0000 | | 135.00 | No Ice 5.51 | 2.93 | 35.00 |
| | | | 0.00 | | | | 1/2" Ice 5.87 | 3.27 | 67.63 |
| | | | 0.00 | | | | 1" Ice 6.23 | 3.63 | 105.06 |
| 7770.00 (AT&T) | B | From Face | 4.00 | 0.0000 | | 135.00 | No Ice 5.51 | 2.93 | 35.00 |
| | | | 0.00 | | | | 1/2" Ice 5.87 | 3.27 | 67.63 |
| | | | 0.00 | | | | 1" Ice 6.23 | 3.63 | 105.06 |
| 7770.00 (AT&T) | C | From Face | 4.00 | 0.0000 | | 135.00 | No Ice 5.51 | 2.93 | 35.00 |
| | | | 0.00 | | | | 1/2" Ice 5.87 | 3.27 | 67.63 |
| | | | 0.00 | | | | 1" Ice 6.23 | 3.63 | 105.06 |
| 800-10966 (AT&T) | A | From Face | 4.00 | 0.0000 | | 135.00 | No Ice 17.36 | 7.50 | 125.00 |
| | | | 0.00 | | | | 1/2" Ice 17.99 | 8.09 | 217.18 |
| | | | 0.00 | | | | 1" Ice 18.63 | 8.69 | 317.51 |
| 800-10966 (AT&T) | B | From Face | 4.00 | 0.0000 | | 135.00 | No Ice 17.36 | 7.50 | 125.00 |
| | | | 0.00 | | | | 1/2" Ice 17.99 | 8.09 | 217.18 |
| | | | 0.00 | | | | 1" Ice 18.63 | 8.69 | 317.51 |
| 800-10966 (AT&T) | C | From Face | 4.00 | 0.0000 | | 135.00 | No Ice 17.36 | 7.50 | 125.00 |
| | | | 0.00 | | | | 1/2" Ice 17.99 | 8.09 | 217.18 |
| | | | 0.00 | | | | 1" Ice 18.63 | 8.69 | 317.51 |
| HPA-65R-BUU-H6 (AT&T) | A | From Face | 4.00 | 0.0000 | | 135.00 | No Ice 9.66 | 6.45 | 55.00 |
| | | | 0.00 | | | | 1/2" Ice 10.13 | 6.91 | 117.99 |
| | | | 0.00 | | | | 1" Ice 10.61 | 7.38 | 187.38 |
| HPA-65R-BUU-H8 (AT&T) | B | From Face | 4.00 | 0.0000 | | 135.00 | No Ice 12.98 | 7.52 | 70.00 |
| | | | 0.00 | | | | 1/2" Ice 13.56 | 8.09 | 143.77 |
| | | | 0.00 | | | | 1" Ice 14.15 | 8.67 | 225.17 |
| HPA-65R-BUU-H6 (AT&T) | C | From Face | 4.00 | 0.0000 | | 135.00 | No Ice 9.66 | 6.45 | 55.00 |
| | | | 0.00 | | | | 1/2" Ice 10.13 | 6.91 | 117.99 |
| | | | 0.00 | | | | 1" Ice 10.61 | 7.38 | 187.38 |
| (2) Ericsson RRUS-32 (AT&T) | A | From Face | 4.00 | 0.0000 | | 135.00 | No Ice 3.31 | 2.42 | 80.00 |
| | | | 0.00 | | | | 1/2" Ice 3.56 | 2.64 | 107.93 |
| | | | 0.00 | | | | 1" Ice 3.81 | 2.86 | 139.47 |
| (2) Ericsson RRUS-32 (AT&T) | B | From Face | 4.00 | 0.0000 | | 135.00 | No Ice 3.31 | 2.42 | 80.00 |
| | | | 0.00 | | | | 1/2" Ice 3.56 | 2.64 | 107.93 |
| | | | 0.00 | | | | 1" Ice 3.81 | 2.86 | 139.47 |
| (2) Ericsson RRUS-32 (AT&T) | C | From Face | 4.00 | 0.0000 | | 135.00 | No Ice 3.31 | 2.42 | 80.00 |
| | | | 0.00 | | | | 1/2" Ice 3.56 | 2.64 | 107.93 |
| | | | 0.00 | | | | 1" Ice 3.81 | 2.86 | 139.47 |
| Radio 4449 (AT&T) | A | From Face | 3.50 | 0.0000 | | 135.00 | No Ice 1.65 | 0.93 | 60.00 |
| | | | 0.00 | | | | 1/2" Ice 1.81 | 1.05 | 74.37 |
| | | | 0.00 | | | | 1" Ice 1.98 | 1.19 | 91.23 |

| | | | | |
|---|----------------|-----------------------------|--------------------|-------------------|
| tnxTower All-Points Technology Corp. 567 Vauxhall St. Ext. Suite 311 Waterford, CT 06385 Phone: (860) 663-1697 FAX: (860) 663-0935 | Job | 175' Monopole Tower | Page | 5 of 7 |
| | Project | CT141_12060 New Fairfield | Date | 08:40:44 04/12/21 |
| | Client | VzW Site New Fairfield 2 CT | Designed by | M. Larson |

| Description | Face or Leg | Offset Type | Offsets: | | Azimuth Adjustment | Placement | C _{AA} | | Weight |
|---------------------------------------|-------------|-------------|----------|--------|--------------------|-----------|-----------------|-----------------|--------|
| | | | Horz | Vert | | | Front | Side | |
| | | | ft | ft | ° | ft | ft ² | ft ² | lb |
| Radio 4449 (AT&T) | B | From Face | 3.50 | 0.0000 | 135.00 | No Ice | 1.65 | 0.93 | 60.00 |
| | | | 0.00 | | | 1/2" Ice | 1.81 | 1.05 | 74.37 |
| | | | 0.00 | | | 1" Ice | 1.98 | 1.19 | 91.23 |
| Radio 4449 (AT&T) | C | From Face | 3.50 | 0.0000 | 135.00 | No Ice | 1.65 | 0.93 | 60.00 |
| | | | 0.00 | | | 1/2" Ice | 1.81 | 1.05 | 74.37 |
| | | | 0.00 | | | 1" Ice | 1.98 | 1.19 | 91.23 |
| (2) LGP2190X Diplexer (AT&T) | A | From Face | 3.50 | 0.0000 | 135.00 | No Ice | 0.23 | 0.11 | 6.00 |
| | | | 0.00 | | | 1/2" Ice | 0.29 | 0.15 | 8.41 |
| | | | 0.00 | | | 1" Ice | 0.36 | 0.21 | 11.91 |
| (2) LGP2190X Diplexer (AT&T) | B | From Face | 3.50 | 0.0000 | 135.00 | No Ice | 0.23 | 0.11 | 6.00 |
| | | | 0.00 | | | 1/2" Ice | 0.29 | 0.15 | 8.41 |
| | | | 0.00 | | | 1" Ice | 0.36 | 0.21 | 11.91 |
| (2) LGP2190X Diplexer (AT&T) | C | From Face | 3.50 | 0.0000 | 135.00 | No Ice | 0.23 | 0.11 | 6.00 |
| | | | 0.00 | | | 1/2" Ice | 0.29 | 0.15 | 8.41 |
| | | | 0.00 | | | 1" Ice | 0.36 | 0.21 | 11.91 |
| Raycap DC6-48 surge suppressor (AT&T) | A | From Face | 4.00 | 0.0000 | 135.00 | No Ice | 1.19 | 1.19 | 30.00 |
| | | | 0.00 | | | 1/2" Ice | 1.37 | 1.37 | 44.34 |
| | | | 0.00 | | | 1" Ice | 1.56 | 1.56 | 60.93 |
| Raycap DC6-48 surge suppressor (AT&T) | C | From Face | 4.00 | 0.0000 | 135.00 | No Ice | 1.19 | 1.19 | 30.00 |
| | | | 0.00 | | | 1/2" Ice | 1.37 | 1.37 | 44.34 |
| | | | 0.00 | | | 1" Ice | 1.56 | 1.56 | 60.93 |
| 10' T-arm (AT&T) | A | None | | 0.0000 | 135.00 | No Ice | 1.67 | 1.67 | 150.00 |
| | | | | | | 1/2" Ice | 2.94 | 2.94 | 547.19 |
| | | | | | | 1" Ice | 3.56 | 3.56 | 956.95 |
| 10' T-arm (AT&T) | B | None | | 0.0000 | 135.00 | No Ice | 1.67 | 1.67 | 150.00 |
| | | | | | | 1/2" Ice | 2.94 | 2.94 | 547.19 |
| | | | | | | 1" Ice | 3.56 | 3.56 | 956.95 |
| 10' T-arm (AT&T) | C | None | | 0.0000 | 135.00 | No Ice | 1.67 | 1.67 | 150.00 |
| | | | | | | 1/2" Ice | 2.94 | 2.94 | 547.19 |
| | | | | | | 1" Ice | 3.56 | 3.56 | 956.95 |
| SFR-K reinf. kit (AT&T) | A | None | | 0.0000 | 135.00 | No Ice | 5.39 | 2.69 | 132.00 |
| | | | | | | 1/2" Ice | 7.89 | 3.95 | 250.00 |
| | | | | | | 1" Ice | 10.39 | 5.20 | 375.00 |
| SFR-K reinf. kit (AT&T) | B | None | | 0.0000 | 135.00 | No Ice | 5.39 | 2.69 | 132.00 |
| | | | | | | 1/2" Ice | 7.89 | 3.95 | 250.00 |
| | | | | | | 1" Ice | 10.39 | 5.20 | 375.00 |
| SFR-K reinf. kit (AT&T) | C | None | | 0.0000 | 135.00 | No Ice | 5.39 | 2.69 | 132.00 |
| | | | | | | 1/2" Ice | 7.89 | 3.95 | 250.00 |
| | | | | | | 1" Ice | 10.39 | 5.20 | 375.00 |
| (2) LPA-80080/6 (VzW) | A | From Face | 4.00 | 0.0000 | 125.00 | No Ice | 4.32 | 8.63 | 25.00 |
| | | | 0.00 | | | 1/2" Ice | 4.76 | 9.08 | 73.26 |
| | | | 0.00 | | | 1" Ice | 5.21 | 9.55 | 127.51 |
| (2) LPA-80080/6 (VzW) | B | From Face | 4.00 | 0.0000 | 125.00 | No Ice | 4.32 | 8.63 | 25.00 |
| | | | 0.00 | | | 1/2" Ice | 4.76 | 9.08 | 73.26 |
| | | | 0.00 | | | 1" Ice | 5.21 | 9.55 | 127.51 |
| (2) LPA-80080/6 (VzW) | C | From Face | 4.00 | 0.0000 | 125.00 | No Ice | 4.32 | 8.63 | 25.00 |
| | | | 0.00 | | | 1/2" Ice | 4.76 | 9.08 | 73.26 |
| | | | 0.00 | | | 1" Ice | 5.21 | 9.55 | 127.51 |
| BXA-171085/12 (VzW) | A | From Face | 4.00 | 0.0000 | 125.00 | No Ice | 4.79 | 3.62 | 25.00 |
| | | | 0.00 | | | 1/2" Ice | 5.24 | 4.06 | 52.45 |
| | | | 0.00 | | | 1" Ice | 5.70 | 4.50 | 85.45 |
| BXA-171085/12 (VzW) | B | From Face | 4.00 | 0.0000 | 125.00 | No Ice | 4.79 | 3.62 | 25.00 |
| | | | 0.00 | | | 1/2" Ice | 5.24 | 4.06 | 52.45 |
| | | | 0.00 | | | 1" Ice | 5.70 | 4.50 | 85.45 |
| BXA-171085/12 (VzW) | C | From Face | 4.00 | 0.0000 | 125.00 | No Ice | 4.79 | 3.62 | 25.00 |
| | | | 0.00 | | | 1/2" Ice | 5.24 | 4.06 | 52.45 |
| | | | 0.00 | | | 1" Ice | 5.70 | 4.50 | 85.45 |

| | | | | |
|---|----------------|-----------------------------|--------------------|-------------------|
| tnxTower All-Points Technology Corp. 567 Vauxhall St. Ext. Suite 311 Waterford, CT 06385 Phone: (860) 663-1697 FAX: (860) 663-0935 | Job | 175' Monopole Tower | Page | 6 of 7 |
| | Project | CT141_12060 New Fairfield | Date | 08:40:44 04/12/21 |
| | Client | VzW Site New Fairfield 2 CT | Designed by | M. Larson |

| Description | Face or Leg | Offset Type | Offsets: | | Azimuth Adjustment | Placement | C _{AA} Front | C _{AA} Side | Weight |
|----------------------|-------------|-------------|----------|--------------|--------------------|-----------|-----------------------|----------------------|---------|
| | | | Horz | Lateral Vert | | | | | |
| | | | ft | ft | ° | ft | ft ² | ft ² | lb |
| BXA-70063/6 (VzW) | A | From Face | 4.00 | 0.0000 | 125.00 | No Ice | 7.57 | 3.76 | 25.00 |
| | | | 0.00 | 0.0000 | | 1/2" Ice | 8.02 | 4.19 | 65.60 |
| | | | 0.00 | 0.0000 | | 1" Ice | 8.47 | 4.63 | 112.01 |
| BXA-70063/6 (VzW) | B | From Face | 4.00 | 0.0000 | 125.00 | No Ice | 7.57 | 3.76 | 25.00 |
| | | | 0.00 | 0.0000 | | 1/2" Ice | 8.02 | 4.19 | 65.60 |
| | | | 0.00 | 0.0000 | | 1" Ice | 8.47 | 4.63 | 112.01 |
| BXA-70063/6 (VzW) | C | From Face | 4.00 | 0.0000 | 125.00 | No Ice | 7.57 | 3.76 | 25.00 |
| | | | 0.00 | 0.0000 | | 1/2" Ice | 8.02 | 4.19 | 65.60 |
| | | | 0.00 | 0.0000 | | 1" Ice | 8.47 | 4.63 | 112.01 |
| 12' T-arm (VzW) | A | None | | 0.0000 | 125.00 | No Ice | 2.00 | 2.00 | 250.00 |
| | | | | 0.0000 | | 1/2" Ice | 3.52 | 3.52 | 814.57 |
| | | | | 0.0000 | | 1" Ice | 4.26 | 4.26 | 1394.15 |
| 12' T-arm (VzW) | B | None | | 0.0000 | 125.00 | No Ice | 2.00 | 2.00 | 250.00 |
| | | | | 0.0000 | | 1/2" Ice | 3.52 | 3.52 | 814.57 |
| | | | | 0.0000 | | 1" Ice | 4.26 | 4.26 | 1394.15 |
| 12' T-arm (VzW) | C | None | | 0.0000 | 125.00 | No Ice | 2.00 | 2.00 | 250.00 |
| | | | | 0.0000 | | 1/2" Ice | 3.52 | 3.52 | 814.57 |
| | | | | 0.0000 | | 1" Ice | 4.26 | 4.26 | 1394.15 |
| 20' x 2.5" omni whip | A | From Face | 3.00 | 0.0000 | 120.00 - 100.00 | No Ice | 5.00 | 5.00 | 50.00 |
| | | | 0.00 | 0.0000 | | 1/2" Ice | 7.03 | 7.03 | 86.96 |
| | | | 0.00 | 0.0000 | | 1" Ice | 9.07 | 9.07 | 136.55 |
| 4' x 4" standoff | A | None | | 0.0000 | 100.00 | No Ice | 1.60 | 0.13 | 50.00 |
| | | | | 0.0000 | | 1/2" Ice | 1.89 | 0.18 | 64.81 |
| | | | | 0.0000 | | 1" Ice | 2.19 | 0.24 | 83.44 |

Dishes

| Description | Face or Leg | Dish Type | Offset Type | Offsets: | | Azimuth Adjustment | 3 dB Beam Width | Elevation | Outside Diameter | Aperture Area | Weight | |
|-----------------------|-------------|---------------------|-------------|----------|--------------|--------------------|-----------------|-----------|------------------|---------------|--------|-------|
| | | | | Horz | Lateral Vert | | | | | | | |
| | | | ft | ft | ° | ° | ft | ft | ft ² | lb | | |
| 2.5' dish with radome | A | Paraboloid w/Radome | From Face | 5.00 | 0.0000 | 175.00 | 2.50 | 175.00 | 2.50 | No Ice | 4.91 | 50.00 |
| | | | | 2.30 | 0.0000 | | | | | 1/2" Ice | 5.24 | 26.91 |
| | | | | 0.00 | 0.0000 | | | | | 1" Ice | 5.57 | 38.82 |

Solution Summary

Maximum Tower Deflections - Service Wind

| Section No. | Elevation | Horz. Deflection | Gov. Load Comb. | Tilt | Twist |
|-------------|-----------|------------------|-----------------|--------|--------|
| | | in | | ° | ° |
| L1 | 175 - 130 | 16.654 | 13 | 0.7788 | 0.0038 |
| L2 | 135 - 85 | 10.342 | 13 | 0.7058 | 0.0012 |
| L3 | 91 - 41 | 4.716 | 13 | 0.4844 | 0.0005 |
| L4 | 48 - 0 | 1.334 | 13 | 0.2522 | 0.0002 |

| | | |
|---|--|----------------------------------|
| tnxTower All-Points Technology Corp. 567 Vauxhall St. Ext. Suite 311 Waterford, CT 06385 Phone: (860) 663-1697 FAX: (860) 663-0935 | Job 175' Monopole Tower | Page 7 of 7 |
| | Project CT141_12060 New Fairfield | Date 08:40:44 04/12/21 |
| | Client VzW Site New Fairfield 2 CT | Designed by M. Larson |

Critical Deflections and Radius of Curvature - Service Wind

| Elevation ft | Appurtenance | Gov. Load Comb. | Deflection in | Tilt ° | Twist ° | Radius of Curvature ft |
|-----------------|-----------------------|-----------------------|------------------|-----------|------------|------------------------------|
| 175.00 | 2.5' dish with radome | 13 | 16.654 | 0.7788 | 0.0038 | 124601 |
| 155.00 | APXVTM14-G-120 | 13 | 13.421 | 0.7542 | 0.0023 | 31150 |
| 145.00 | 81010022R3B | 13 | 11.853 | 0.7345 | 0.0017 | 20766 |
| 135.00 | 7770.00 | 13 | 10.342 | 0.7058 | 0.0012 | 15755 |
| 125.00 | (2) LPA-80080/6 | 13 | 8.906 | 0.6663 | 0.0009 | 14001 |
| 120.00 | 20' x 2.5" omni whip | 13 | 8.219 | 0.6430 | 0.0008 | 13328 |
| 115.00 | 20' x 2.5" omni whip | 13 | 7.555 | 0.6179 | 0.0007 | 12717 |
| 110.00 | 20' x 2.5" omni whip | 13 | 6.915 | 0.5914 | 0.0007 | 12145 |
| 105.00 | 20' x 2.5" omni whip | 13 | 6.299 | 0.5638 | 0.0006 | 11622 |
| 100.00 | 20' x 2.5" omni whip | 13 | 5.709 | 0.5356 | 0.0006 | 11142 |

Maximum Tower Deflections - Design Wind

| Section No. | Elevation ft | Horz. Deflection in | Gov. Load Comb. | Tilt ° | Twist ° |
|----------------|-----------------|---------------------------|-----------------------|-----------|------------|
| L1 | 175 - 130 | 66.088 | 4 | 3.0969 | 0.0147 |
| L2 | 135 - 85 | 41.019 | 4 | 2.8026 | 0.0047 |
| L3 | 91 - 41 | 18.694 | 4 | 1.9218 | 0.0019 |
| L4 | 48 - 0 | 5.286 | 4 | 0.9995 | 0.0007 |

Critical Deflections and Radius of Curvature - Design Wind

| Elevation ft | Appurtenance | Gov. Load Comb. | Deflection in | Tilt ° | Twist ° | Radius of Curvature ft |
|-----------------|-----------------------|-----------------------|------------------|-----------|------------|------------------------------|
| 175.00 | 2.5' dish with radome | 4 | 66.088 | 3.0969 | 0.0147 | 31514 |
| 155.00 | APXVTM14-G-120 | 4 | 53.247 | 2.9967 | 0.0090 | 7877 |
| 145.00 | 81010022R3B | 4 | 47.018 | 2.9173 | 0.0066 | 5250 |
| 135.00 | 7770.00 | 4 | 41.019 | 2.8026 | 0.0047 | 3981 |
| 125.00 | (2) LPA-80080/6 | 4 | 35.318 | 2.6448 | 0.0033 | 3532 |
| 120.00 | 20' x 2.5" omni whip | 4 | 32.594 | 2.5522 | 0.0030 | 3359 |
| 115.00 | 20' x 2.5" omni whip | 4 | 29.958 | 2.4524 | 0.0028 | 3203 |
| 110.00 | 20' x 2.5" omni whip | 4 | 27.417 | 2.3469 | 0.0026 | 3060 |
| 105.00 | 20' x 2.5" omni whip | 4 | 24.974 | 2.2374 | 0.0024 | 2929 |
| 100.00 | 20' x 2.5" omni whip | 4 | 22.634 | 2.1252 | 0.0022 | 2809 |

Section Capacity Table

| Section No. | Elevation ft | Component Type | Size | Critical Element | P lb | ϕP_{allow} lb | % Capacity | Pass Fail |
|----------------|-----------------|-------------------|-------------------------|---------------------|-----------|------------------------|---------------|--------------|
| L1 | 175 - 130 | Pole | TP34.9x24x0.25 | 1 | -28316.20 | 158583.00 | 22.5 | Pass |
| L2 | 130 - 85 | Pole | TP45.3x33.1889x0.3125 | 2 | -24630.90 | 528330.00 | 40.5 | Pass |
| L3 | 85 - 41 | Pole | TP55.3328x43.2217x0.375 | 3 | -38933.60 | 1161060.00 | 42.7 | Pass |
| L4 | 41 - 0 | Pole | TP64.5139x52.8872x0.375 | 4 | -57658.20 | 2004560.00 | 51.0 | Pass |
| Summary | | | | | | | | |
| Pole (L4) | | | | | | | 51.0 | Pass |
| RATING = | | | | | | | 51.0 | Pass |

All-Points Technology Corp., P.C.

567 Vauxhall Street Extension - Suite 311
Waterford, CT 06385
(860) 663-1697

Client: **Verizon Wireless**
Job: **New Fairfield 2, CT**
Calculated By: **M. Larson**

Site No.: **New Fairfield 2**
Job No.: **CT141_12060**
Date: **12-Apr-21**

Program assumes:

Mat is square in plan view.
Water table is below bottom of mat.
Unit weight of concrete = 150 pcf
Unit weight of soil = 100 pcf
Monopole tower with center pier

Information to be provided:

| | | |
|--|------------------|--------------|
| Pier is round or square in plan dimension ("R" or "S") | Shape = | R |
| OTM = Overturning Moment to be resisted | OTM = | 2964 ft-kips |
| H = Height from ground surface to top of mat (if buried) | H = | 1.0 ft. |
| P _M = Projection of pier above mat | P _M = | 1.3 ft. |
| y = Thickness of mat | y = | 4.00 ft. |
| x = Width of mat | x = | 27.50 ft. |
| d = Diameter of round pier | d = | 7.0 ft. |
| S = Size of tension bars | S = | 11 |

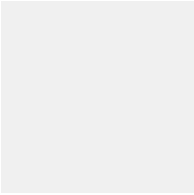
Mass of tower and appurtenances (below)

Results:

| <u>Component</u> | <u>Mass</u> | <u>Moment Arm</u> | <u>Moment Resist.</u> |
|------------------|-------------|-------------------|-----------------------|
| Pier | 7.2 kips | 13.75 ft. | 99.2 ft-kips |
| Overburden | 75.0 kips | 13.75 ft. | 1031.5 ft-kips |
| Mat | 453.8 kips | 13.75 ft. | 6239.1 ft-kips |

Overturning Moment Resistance : 7369.76 ft-kips
Factor of Safety = 2.49 SATISFACTORY
Concrete Quantity = 117.4 c.y.

Attachment 4



NEW FAIRFIELD,CT

302 BALL POND RD

Location

302 BALL POND RD

Mblu

23/ 16/ 15/ /

Acct#

00037200

Owner

NEW FAIRFIELD TOWN OF

Assessment

\$10,519,700

Appraisal

\$15,028,100

PID

378

Building Count

6

Current Value

Appraisal

| Valuation Year | Improvements | Land | Total |
|----------------|--------------|------|-------|
|----------------|--------------|------|-------|

| | | | |
|------|--------------|-------------|--------------|
| 2019 | \$12,547,500 | \$2,480,600 | \$15,028,100 |
|------|--------------|-------------|--------------|

Assessment

| Valuation Year | Improvements | Land | Total |
|----------------|--------------|-------------|--------------|
| 2019 | \$8,783,300 | \$1,736,400 | \$10,519,700 |

Owner of Record

Owner NEW FAIRFIELD TOWN OF
Co-Owner CONSOLIDATED SCHOOL & FIREHOUSE
Address 4 BRUSH HILL RD
NEW FAIRFIELD, CT 06812
Sale Price \$0
Certificate
Book & Page 0461/1055
Sale Date 03/18/2010
Instrument 29

Ownership History

Ownership History

| Owner | Sale Price | Certificate | Book & Page | Instrument | Sale Date |
|-----------------------|------------|-------------|-------------|------------|------------|
| NEW FAIRFIELD TOWN OF | \$0 | | 0461/1055 | 29 | 03/18/2010 |
| NEW FAIRFIELD TOWN OF | \$0 | | 0000/0000 | | 01/01/1900 |

Building Information

Building 1 : Section 1

Year Built: 1940
Living Area: 91,801
Replacement Cost: \$14,753,798
Building Percent Good: 55
Replacement Cost
Less Depreciation: \$8,114,600

Building Attributes

| Field | Description |
|-------|-------------|
|-------|-------------|

| | |
|------------------|----------------|
| Style: | Public School |
| Model | Commercial |
| Grade | B |
| Stories: | 1 |
| Occupancy | 1.00 |
| Exterior Wall 1 | Vinyl |
| Exterior Wall 2 | Brick/Masonry |
| Roof Structure | Gable/Hip |
| Roof Cover | Asphalt Shngl. |
| Interior Wall 1 | Drywall/Sheet |
| Interior Wall 2 | Minim/Masonry |
| Interior Floor 1 | Inlaid Sht Gds |
| Interior Floor 2 | Carpet |
| Heating Fuel | Oil |
| Heating Type | Forced Air-Duc |
| AC Type | Partial |
| Struct Class | |
| Bldg Use | Education |
| 1st Floor Use: | 903 |
| Heat/AC | HEAT/AC SPLIT |
| Frame Type | MASONRY |
| Baths/Plumbing | AVERAGE |
| Ceiling/Wall | SUS-CEIL & WL |
| Rooms/Prtns | AVERAGE |
| Wall Height | 12.00 |
| % Comn Wall | 0.00 |

| Building Photo |



| Building Layout |

Building Sub-Areas (sq ft) Legend

| Code | Description | Gross Area | Living Area |
|-------------|--------------------------|-------------------|--------------------|
| BAS | First Floor | 59,749 | 59,749 |
| FRB | FRB | 36,898 | 31,363 |
| FBM | FBM | 984 | 689 |
| BSM | Basement | 12,618 | 0 |
| CLP | Loading Platform Covered | 360 | 0 |
| CRL | Crawl Space | 6,604 | 0 |
| CTH | Cathedral | 2,804 | 0 |
| FOP | Open Porch | 1,204 | 0 |
| PTO | Patio | 360 | 0 |
| | | 121,581 | 91,801 |

Building 2 : Section 1

Year Built:

1981

Living Area:

13,681

Replacement Cost:

\$1,868,793

Building Percent Good:

82

Replacement Cost

Less Depreciation:

\$1,532,400

Building Attributes : Bldg 2 of 6

| Field | Description |
|-----------------|--------------------|
| Style: | Fire Station |
| Model | Commercial |
| Grade | B |
| Stories: | 2 |
| Occupancy | 1.00 |
| Exterior Wall 1 | Brick/Masonry |
| Exterior Wall 2 | |

| | |
|------------------|---------------|
| Roof Structure | Mansard |
| Roof Cover | Wood Shingle |
| Interior Wall 1 | Plastered |
| Interior Wall 2 | Plywood Panel |
| Interior Floor 1 | Dirt/None |
| Interior Floor 2 | Vinyl/Asphalt |
| Heating Fuel | Oil |
| Heating Type | Hot Water |
| AC Type | None |
| Struct Class | |
| Bldg Use | Fire Vol. |
| 1st Floor Use: | 903 |
| Heat/AC | HEAT/AC SPLIT |
| Frame Type | MASONRY |
| Baths/Plumbing | AVERAGE |
| Ceiling/Wall | CEIL & WALLS |
| Rooms/Prtns | AVERAGE |
| Wall Height | 14.00 |
| % Comn Wall | 0.00 |

| Building Photo |



Building Layout

FUS
BAS

51

89

99

FU

Building Sub-Areas (sq ft) Legend

| Code | Description | Gross Area | Living Area |
|------|----------------------|------------|-------------|
| BAS | First Floor | 7,016 | 7,016 |
| FUS | Finished Upper Story | 7,016 | 6,665 |
| FOP | Open Porch | 40 | 0 |
| | | 14,072 | 13,681 |

Building 3 : Section 1

| | |
|--|-------------|
| Year Built: | 1989 |
| Living Area: | 11,951 |
| Replacement Cost: | \$1,503,675 |
| Building Percent Good: | 86 |
| Replacement Cost Less Depreciation: | \$1,293,200 |

Building Attributes : Bldg 3 of 6

| Field | Description |
|------------------|----------------|
| Style: | Police |
| Model | Commercial |
| Grade | C |
| Stories: | 2 |
| Occupancy | 1.00 |
| Exterior Wall 1 | Brick/Masonry |
| Exterior Wall 2 | |
| Roof Structure | Gable/Hip |
| Roof Cover | Asphalt Shngl. |
| Interior Wall 1 | Drywall/Sheet |
| Interior Wall 2 | Minim/Masonry |
| Interior Floor 1 | Ceram Clay Til |
| Interior Floor 2 | Vinyl/Asphalt |

| | |
|----------------|----------------|
| Heating Fuel | Oil |
| Heating Type | Forced Air-Duc |
| AC Type | Central |
| Struct Class | |
| Bldg Use | Municipal-Comm |
| 1st Floor Use: | 903 |
| Heat/AC | HEAT/AC PKGS |
| Frame Type | MASONRY |
| Baths/Plumbing | AVERAGE |
| Ceiling/Wall | SUS-CEIL & WL |
| Rooms/Prtns | AVERAGE |
| Wall Height | 14.00 |
| % Comn Wall | 0.00 |

| Building Photo |



| Building Layout |

BAS

98

FUS

98

BAS

38

26

72

Building Sub-Areas (sq ft) Legend

| Code | Description | Gross Area | Living Area |
|------|----------------------|------------|-------------|
| BAS | First Floor | 8,276 | 8,276 |
| FUS | Finished Upper Story | 3,868 | 3,675 |
| | | 12,144 | 11,951 |

Building 4 : Section 1

Year Built:

2004

Living Area:

360

Replacement Cost:

\$42,689

Building Percent Good:

87

Replacement Cost

Less Depreciation:

\$37,100

Building Attributes : Bldg 4 of 6

| Field | Description |
|------------------|----------------|
| Style: | Tower support |
| Model | Commercial |
| Grade | C |
| Stories: | 1 |
| Occupancy | 0.00 |
| Exterior Wall 1 | Brick Veneer |
| Exterior Wall 2 | |
| Roof Structure | Flat |
| Roof Cover | Tar & Gravel |
| Interior Wall 1 | Minim/Masonry |
| Interior Wall 2 | |
| Interior Floor 1 | Concr-Finished |
| Interior Floor 2 | |
| Heating Fuel | Gas |

| | |
|----------------|----------------|
| Heating Type | Forced Air-Duc |
| AC Type | Central |
| Struct Class | |
| Bldg Use | Misc |
| 1st Floor Use: | |
| Heat/AC | HEAT/AC SPLIT |
| Frame Type | WOOD FRAME |
| Baths/Plumbing | AVERAGE |
| Ceiling/Wall | NONE |
| Rooms/Prtns | LIGHT |
| Wall Height | 8.00 |
| % Comn Wall | 0.00 |



Building Photo

Building Layout

BAS

30

Building Sub-Areas (sq ft) Legend

| Code | Description | Gross Area | Living Area |
|------|-------------|------------|-------------|
| BAS | First Floor | 360 | 360 |
| | | 360 | 360 |

Building 5 : Section 1

Year Built:

2004

Living Area:

300

Replacement Cost:

\$35,574

Building Percent Good:

87

Replacement Cost**Less Depreciation:**

\$30,900

Building Attributes : Bldg 5 of 6

| Field | Description |
|------------------|----------------|
| Style: | Tower support |
| Model | Commercial |
| Grade | C |
| Stories: | 1 |
| Occupancy | 0.00 |
| Exterior Wall 1 | Brick Veneer |
| Exterior Wall 2 | |
| Roof Structure | Flat |
| Roof Cover | Tar & Gravel |
| Interior Wall 1 | Minim/Masonry |
| Interior Wall 2 | |
| Interior Floor 1 | Concr-Finished |
| Interior Floor 2 | |
| Heating Fuel | Gas |
| Heating Type | Forced Air-Duc |

| | |
|----------------|---------------|
| AC Type | Central |
| Struct Class | |
| Bldg Use | Misc |
| 1st Floor Use: | |
| Heat/AC | HEAT/AC SPLIT |
| Frame Type | WOOD FRAME |
| Baths/Plumbing | AVERAGE |
| Ceiling/Wall | NONE |
| Rooms/Prtns | LIGHT |
| Wall Height | 8.00 |
| % Comn Wall | 0.00 |



Building Photo

Building Layout

BAS

BAS

18

20

Building Sub-Areas (sq ft) Legend

| Code | Description | Gross Area | Living Area |
|------|-------------|------------|-------------|
| BAS | First Floor | 300 | 300 |
| | | 300 | 300 |

Building 6 : Section 1

Year Built:

2004

Living Area:

200

Replacement Cost:

\$65,002

Building Percent Good:

87

Replacement Cost**Less Depreciation:**

\$56,600

Building Attributes : Bldg 6 of 6

| Field | Description |
|------------------|----------------|
| Style: | Tower support |
| Model | Commercial |
| Grade | C |
| Stories: | 1 |
| Occupancy | |
| Exterior Wall 1 | Brick Veneer |
| Exterior Wall 2 | |
| Roof Structure | Flat |
| Roof Cover | Tar & Gravel |
| Interior Wall 1 | Minim/Masonry |
| Interior Wall 2 | |
| Interior Floor 1 | Concr-Finished |
| Interior Floor 2 | |
| Heating Fuel | Gas |
| Heating Type | Forced Air-Duc |

| | |
|----------------|----------------|
| AC Type | Central |
| Struct Class | |
| Bldg Use | Municipal-Comm |
| 1st Floor Use: | |
| Heat/AC | HEAT/AC SPLIT |
| Frame Type | WOOD FRAME |
| Baths/Plumbing | AVERAGE |
| Ceiling/Wall | NONE |
| Rooms/Prtns | LIGHT |
| Wall Height | 8.00 |
| % Comn Wall | |



Building Photo

Building Layout

BAS

Building Sub-Areas (sq ft) Legend

| Code | Description | Gross Area | Living Area |
|------|-------------|------------|-------------|
| BAS | First Floor | 200 | 200 |
| | | 200 | 200 |

Extra Features

Extra Features Legend

| Code | Description | Size | Value | Bldg # |
|------|----------------------|--------------|----------|--------|
| SPR3 | SPRINKLERS-DRY | 6604.00 S.F. | \$10,000 | 1 |
| ELV3 | Residential Elevator | 1.00 UNITS | \$16,500 | 1 |
| GEN | Generator | 1.00 UNITS | \$2,500 | 2 |

Land

Land Use

Use Code 909
Description Education
Zone 2
Neighborhood C
Alt Land Appr No

Category

Land Line Valuation

Size (Acres) 38.23

Depth

Assessed Value \$1,736,400

Appraised Value \$2,480,600

Outbuildings

Outbuildings Legend

| Code | Description | Sub Code | Sub Description | Size | Value | Bldg # |
|------|-------------|----------|-----------------|-------------|-------|--------|
| PAV2 | PAVING-CONC | | | 100.00 S.F. | \$300 | 1 |

| | | | | | | |
|------|--------------------|--|--|-------------------|-------------|---|
| PAV1 | PAVING- ASPHALT | | | 103000.00 S.F. | \$92,700 | 1 |
| CNP2 | CANOPY- GOOD | | | 546.00 S.F. | \$6,800 | 1 |
| SHD1 | Shed | | | 476.00 S.F. | \$3,300 | 1 |
| SHD1 | Shed | | | 80.00 S.F. | \$600 | 1 |
| CELL | Cell Tenant | | | 5.00 UNITS | \$1,350,000 | 1 |

Valuation History

Appraisal

| Valuation Year | Improvements | Land | Total |
|----------------|--------------|-------------|--------------|
| 2018 | \$14,116,500 | \$2,070,500 | \$16,187,000 |
| 2017 | \$14,116,500 | \$2,070,500 | \$16,187,000 |
| 2016 | \$14,116,500 | \$2,070,500 | \$16,187,000 |

Assessment

| Valuation Year | Improvements | Land | Total |
|----------------|--------------|-------------|--------------|
| 2018 | \$9,881,500 | \$1,449,300 | \$11,330,800 |
| 2017 | \$9,881,500 | \$1,449,300 | \$11,330,800 |
| 2016 | \$9,881,500 | \$1,449,300 | \$11,330,800 |

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closecloseclose

Attachment 5



Certificate of Mailing — Firm

Name and Address of Sender

Kenneth C. Baldwin
 Robinson & Cole LLP
 28 Trumbull Street
 Hartford, CT 06103-3597

TOTAL NO.
of Pieces Listed by Sender

TOTAL NO.
of Pieces Received at Post Office™

Postmark with Date of Receipt.

Postmaster, per (name of receiving employee)

neopost
 04/15/2021
 US POSTAGE \$002.89
 ZIP 06108
 041L12203937

USPS® Tracking Number
 Firm-Specific Identifier

Address
 (Name, Street, City, State, and ZIP Code™)

Postage

Fee

Special Handling

Parcel Airtift

Patricia Del Monaco, First Selectman

Town of New Fairfield
 4 Brush Hill Road

New Fairfield, CT 06802

Evan White, Zoning Enforcement Officer

Town of New Fairfield

4 Brush Hill Road

New Fairfield, CT 06802

