



STATE OF CONNECTICUT

CONNECTICUT SITING COUNCIL

Ten Franklin Square, New Britain, CT 06051

Phone: (860) 827-2935 Fax: (860) 827-2950

E-Mail: siting.council@ct.gov

www.ct.gov/csc

August 10, 2015

Camille M. Mulligan
Alcatel-Lucent
1 Robbins Road
Westford, MA 01886

RE: Compliance Extension Request

EM-SPRINT-008-130130	93 Old Amity Road	Bethany
EM-SPRINT-009-131008	8 Sky Edge Drive	Bethel
EM-SPRINT-017-131008	371 Terryville Avenue	Bristol
EM-SPRINT-018-130322	39 Carmen Hill Road	Brookfield
EM-SPRINT-033-130920	179 Shunpike Road	Cromwell
EM-SPRINT-034-130920	41 Padanaram Road	Danbury
EM-SPRINT-069-130409	246 East Franklin Street <i>Killgley</i>	Danielson
EM-SPRINT-035-130322	126 Ledge Road	Darien
EM-SPRINT-043-130311	310 Prestige Park Road	East Hartford
EM-SPRINT-047-131008	232 South Main Street	East Windsor
EM-SPRINT-051-130606	280 Morehouse Drive	Fairfield
EM-SPRINT-052-130606	45 Maple Ridge Road	Farmington
EM-SPRINT-057-120122	363 Riversville Road	Greenwich
EM-SPRINT-057-131127	9 Sound Shore Dr., a/k/a 12 Sound Shore Drive	Greenwich
EM-SPRINT-059-130819	99 Briar Road	Groton
EM-SPRINT-062-130509	Talmadge Road	Hamden
EM-SPRINT-068-121226	136 Bulls Bridge Road	Kent
EM-SPRINT-076-130819	135 New Road	Madison
EM-SPRINT-077-130828	Olcott Street a/k/a 250 Olcott Street	Manchester
EM-SPRINT-080-131024	21 West Peak Drive	Meriden
EM-SPRINT-081-130716	1 Service Road	Middlebury
EM-SPRINT-084-130124	528 Wheeler's Farm Rd.	Milford
EM-SPRINT-091-130606	302 Ball Pond Road	New Fairfield
EM-SPRINT-095-131008	26 Washinton Street	New London
EM-SPRINT-097-131008	8 Ferris Road	Newtown
EM-SPRINT-097-131129	201 South Main St.	Newtown
EM-SPRINT-103-121226	173/177 West Rocks Road	Norwalk
EM-SPRINT-104-131112	2 Hinkley Hill Road	Norwich
EM-SPRINT-108-130215	20 Great Oak Road	Oxford
EM-SPRINT-108-130401	133 Coppermine Road	Oxford
EM-SPRINT-108-130712	338 Oxford Road	Oxford
EM-SPRINT-119-130314	47 Inwood Road	Rocky Hill



EM-SPRINT-119-130819	52 New Britain Avenue	Rocky Hill
EM-SPRINT-120-130828	Lower County Road a/k/a 35 Lower County Road	Roxbury
EM-SPRINT-126-130325	219 Nells Rock Road	Shelton
EM-SPRINT-126-130515	70 Platt Road	Shelton
EM-SPRINT-128-131112	22 Wintonbury Road (aka 49a and 53 Wintonbury Road)	Simsbury
EM-SPRINT-130-130531	1432 Old Waterbury Road	Southbury
EM-SPRINT-135-130128	69 Guinea Road	Stamford
EM-SPRINT-135-131112	366 Old Long Ridge Road	Stamford
EM-SPRINT-143-130712	350 Burr Mountain Road	Torrington
EM-SPRINT-151-131209	184 Garden Circle	Waterbury
EM-SPRINT-155-130828	345 North Main Street a/k/a 333 North Main Street	West Hartford
EM-SPRINT-157-130701	56 Norfield Road	Weston
EM-SPRINT-164-130920	Windsor Avenue a/k/a 494 Windsor Avenue	Windsor
EM-SPRINT-NEXTEL-166-130116	164 County Road	Wolcott

Dear Ms. Mulligan:

The Connecticut Siting Council (Council) is in receipt of your letter dated August 10, 2015, submitted on behalf of Sprint, requesting an extension of time to submit notices of completion of construction and associated post modification inspection reports for the above-referenced exempt modifications that were approved in 2013.

Please be advised that Council approval of these exempt modifications has expired. Therefore, any additional changes to these facilities will require explicit notice to the Council pursuant to Regulations of Connecticut State Agencies Section 16-50j-73 and a filing fee.

Thank you for your attention to this matter.

Sincerely,



Melanie A. Bachman
Acting Executive Director

MAB/cm

Bradley Thompson

From: Jonathan Holmes
Sent: Friday, June 21, 2013 9:52 AM
To: Steven Strickland
Cc: Blake Bartok
Subject: RE: CT00302-S (Danielson) NCN

Follow Up Flag: Follow up
Flag Status: Flagged

Approved if CWI approves.

Thanks,

Jonathan C. Holmes, EI
Project Engineer

FDH Engineering, Inc.
6521 Meridien Drive
Raleigh, NC 27616
Office: (919) 367-5049
Fax: (919) 755-1031
jholmes@fdh-inc.com
<http://www.fdhengineering.com>

Raleigh - St. Louis - Baton Rouge - Irvine



From: Steven Strickland
Sent: Monday, June 17, 2013 11:36 AM
To: Jonathan Holmes
Cc: Blake Bartok
Subject: FW: CT00302-S (Danielson) NCN

Jonathan,

Please review the pictures and comments from the inspection. Thank you.

- Bryce called out that the step pegs are 6.5" and not 7". I doubt this will be an issue – **Should be fine.**
- Small area of rust/grind on flat plate – **very minor**
- He calls out a weld issue, but if it passes CWI, then no worries – **Will review with CWI.**

Obtain engineering approval of discrepancies

\\fdh-server\Construction\2012 Construction Projects\SBA Construction\1 January\12-01571E Danielson, CT00302-S\Danielson (S4 - Sprint-New Cingular)\PCI\FDH



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April 26, 2013

Rick Woods
SBA Communications Corporation
33 Boston Post Road West Suite 320
Marlborough, MA 01752

RE: **EM-SPRINT-069-130409** – Sprint Spectrum L.P. notice of intent to modify an existing telecommunications facility located at 246 East Franklin Street, Killingly, Connecticut.

Dear Mr. Woods:

The Connecticut Siting Council (Council) hereby acknowledges your notice to modify this existing telecommunications facility, pursuant to Section 16-50j-73 of the Regulations of Connecticut State Agencies with the following conditions:

- The accessory equipment shall be installed in accordance with the recommendations made in the Structural Analysis Report prepared by FDH Engineering dated April 5, 2013 and stamped by Christopher Murphy and the tower modifications identified in the Modification Drawings prepared by FDH Engineering for an AT&T exempt modification – EM-CING-069-130130 are completed;
- Within 45 days following completion of the antenna installation, Sprint shall provide documentation certified by a professional engineer that its installation complied with the recommendation of the structural analysis;
- Any deviation from the proposed modification as specified in this notice and supporting materials filed with the Council shall render this acknowledgement invalid;
- Any material changes to this modification as proposed shall require the filing of a new notice with the Council;
- Within 45 days after completion of construction, the Council shall be notified in writing that construction has been completed;
- The validity of this action shall expire one year from the date of this letter; and
- The applicant may file a request for an extension of time beyond the one year deadline provided that such request is submitted to the Council not less than 60 days prior to the expiration.

The proposed modifications including the placement of all necessary equipment and shelters within the tower compound are to be implemented as specified here and in your notice dated April 8, 2013. The modifications are in compliance with the exception criteria in Section 16-50j-72 (b) of the Regulations of Connecticut State Agencies as changes to an existing facility site that would not increase tower height, extend the boundaries of the tower site, increase noise levels at the tower site boundary by six decibels, and increase the total radio frequencies electromagnetic radiation power density measured at the tower site boundary to or above the standard adopted by the State Department of Environmental Protection pursuant to General Statutes § 22a-162. This facility has also been carefully modeled to ensure that radio frequency emissions are conservatively below State and federal standards applicable to the frequencies now used on this tower.

This decision is under the exclusive jurisdiction of the Council. Please be advised that the validity of this action shall expire one year from the date of this letter. Any additional change to this facility will require

explicit notice to this agency pursuant to Regulations of Connecticut State Agencies Section 16-50j-73. Such notice shall include all relevant information regarding the proposed change with cumulative worst-case modeling of radio frequency exposure at the closest point of uncontrolled access to the tower base, consistent with Federal Communications Commission, Office of Engineering and Technology, Bulletin 65. Thank you for your attention and cooperation.

Very truly yours,



Melanie Bachman
Acting Executive Director

MB/CDM/cm

c: The Honorable Dennis Alemian, Chairman Town Council, Town of Killingly
Roger Gandolf, Zoning Officer, Town of Killingly



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April 10, 2013

The Honorable Dennis Alemian
Chairman Town Council
Town of Killingly
P. O. Box 6000
Danielson, CT 06239-6000

RE: **EM-SPRINT-069-130409** – Sprint Spectrum L.P. notice of intent to modify an existing telecommunications facility located at 246 East Franklin Street, Killingly, Connecticut.

Dear Chairman Alemian:

The Connecticut Siting Council (Council) received a request to modify an existing telecommunications facility, pursuant to Regulations of Connecticut State Agencies Section 16-50j-72, a copy of which has already been provided to you.

If you have any questions or comments regarding the proposal, please call me or inform the Council by April 24, 2013.

Thank you for your cooperation and consideration.

Very truly yours,

Linda Roberts
Executive Director

LR/cm

c: Roger Gandolf, Zoning Officer, Town of Killingly



EM-SPRINT-069-130409

April 8, 2013

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

ORIGINAL

RECEIVED
APR - 9 2013
CONNECTICUT
SITING COUNCIL

RE: Notice of Exempt Modification
246 East Franklin St.
Danielson, CT 06239
N 41° 47' 44.99"
W 71° 52' 13.18"

Dear Mr. Martin and Members of the Siting Council:

On behalf of Sprint Spectrum, SBA Communications is submitting an exempt modification application to the Connecticut Siting council for modification of existing equipment at a tower facility located at 246 East Franklin Street, Danielson, CT.

The 246 East Franklin St. facility consists of a 155' MONOPOLE Tower owned and operated by SBA Properties, Inc. In order to accommodate technological changes and enhance system performance in the State of Connecticut, Sprint Spectrum plans to modify the equipment configurations at many of its existing cell sites. Please accept this letter and attachments as notification, pursuant to R.C.S.A. Section 16-50j-73, of construction which constitutes an exempt modification pursuant to R.C.S.A. Section 16-50j-72(b)(2). In compliance with R.C.S.A. Section 16-50j-73, a copy of this letter and attachments is being sent to the chief elected official of the municipality in which the affected cell site is located.

As part of Sprint's Network Vision modification project, Sprint desires to upgrade their equipment to meet the new standards of 4G technology. The new equipment will allow customers to download files and browse the internet at a high rate of speed while also allowing their phones to be compatible with the latest 4G technology.

Attached is a summary of the planned modifications, including power density calculations reflecting the change in Sprint's operations at the site along with the required fee of \$625.

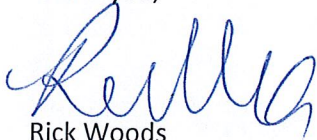
The changes to the facility do not constitute modifications as defined in Connecticut General Statutes ("C.G.S.") Section 16-50i(d) because the general physical characteristics of the facility will not be significantly changed or altered. Rather, the planned changes to the facility fall squarely within those activities explicitly provided for in R.C.S.A. Section 16-50j-72(b)(2).

1. The overall height of the structure will be unaffected.
2. The proposed changes will not extend the site boundaries. There will be no effect on the site compound other than the new equipment cabinets.
3. The proposed changes will not increase the noise level at the existing facility by six decibels or more.
4. The changes in radio frequency power density will not increase the calculated "worst case" power density for the combined operations at the site to a level at or above the applicable standard for uncontrolled environments as calculated for a mixed frequency site.

For the foregoing reasons, SBA Communications on behalf of Sprint Spectrum, respectfully submits that he proposed changes at the referenced site constitute exempt modifications under R.C.S.A. Section 16-50j-72(b)(2).

Please feel free to call me at (508) 614-0389 with any questions you may have concerning this matter.

Thank you,



Rick Woods
SBA Communications Corporation
33 Boston Post Road West Suite 320
Marlborough, MA 01752
508-251-1691 x 319 + T
508-251-1755 + F
508-614-0389 + C
rwoods@sbsite.com



Sprint Spectrum Equipment Modification

246 East Franklin St., Danielson, CT
Site number CT23XC407

Tower Owner: SBA Properties, Inc.

Equipment Configuration: MONOPOLE Tower

Current and/or approved: One outdoor equipment cabinet
One powerhouse cabinet
Six CDMA antennas @ 145'
Six lines of 1-5/8" coax
One GPS antenna
Public exchange carrier landline backhaul facilities

Planned Modifications: Replace one existing CDMA outdoor equipment cabinet with one multimodal equipment cabinet within existing lease area
Replace one existing powerhouse cabinet with one battery cabinet
Install one fiber distribution box on H-Frame within existing lease area
Replace six existing antennas with three proposed antennas and six RRHs installed on existing monopole antenna frame
Replace six existing coaxial cables with three proposed Hybriflex 1-1/4" cables
Replace one GPS antenna with another GPS antenna
Replace existing public exchange carrier landline backhaul facilities with alternative access vendor (AAV) fiber optic facilities including proposed overhead/underground conduits and NID

Structural Information:

The attached structural analysis demonstrates that the tower and foundation will have adequate structural capacity to accommodate the proposed modifications.

Power Density:

The anticipated Maximum Composite contributions from the Sprint facility are 15.452% of the allowable FCC established general public limit. The anticipated composite MPE value for this site assuming all carriers present is 40.172% of the allowable FCC established general public limit sampled at the ground level.

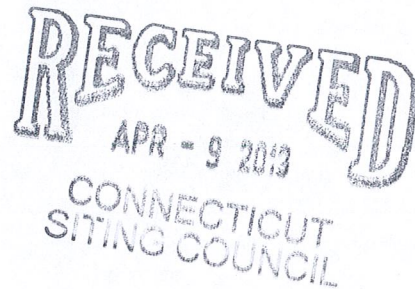
Site Composite MPE %	
Carrier	MPE %
Sprint	15.452%
AT&T	6.050%
Metro PCS	3.500%
Verizon Wireless	13.450%
T-Mobile	1.720%
Total Site MPE %	40.172%

April 8, 2013

COPY

Bruce E. Benway
Town Manager
Town of Killingly
172 Main Street
Danielson, CT 06239

RE: Telecommunications Facility @ 246 East Franklin Street



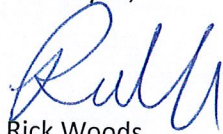
Dear Mr. Benway,

In order to accommodate technological changes and enhance system performance in the State of Connecticut, Sprint Spectrum will be changing its equipment configuration at certain cell sites.

As required by Regulations of Connecticut State Agencies (R.C.S.A.) Section 16-50j-73, the Connecticut Siting Council has been notified of the changes and will review Sprint's proposal. Please accept this letter as notification under Section 16-50j-73 of construction which constitutes an exempt modification pursuant to R.C.S.A. Section 16-50j-72(b)(2).

The accompanying letter to the Siting Council fully describes Sprint's proposal for the referenced cell site. However, if you have any questions or require any further information on our plans or the Siting Council's procedures, please call me at (508) 614-0389.

Thank you,

A handwritten signature in blue ink, appearing to read "Rick Woods".

Rick Woods
SBA Communications Company
33 Boston Post Road West Suite 320
Marlborough, MA 01752
508-251-1691 x 319 + T
508-251-1755 + F
508-614-0389 + C
rwoods@sbsite.com



FDH Engineering, Inc., 6521 Meridien Dr. Raleigh, NC 27616, Ph. 919.755.1012, Fax 919.755.1031

**Structural Analysis for
SBA Network Services, Inc.**

155' Monopole Tower

**SBA Site Name: Danielson
SBA Site ID: CT00302-S-00
Sprint Site ID: CT23XC407**

FDH Project Number 1320631400

Analysis Results

Tower Components	99.9 %	Sufficient
Foundation	52.1 %	Sufficient

Prepared By:

Adam Bryan, EI
Project Engineer

Reviewed By:

Christopher M. Murphy, PE
President
CT PE License No. 25842

FDH Engineering, Inc.
6521 Meridien Dr.
Raleigh, NC 27616
(919) 755-1012
info@fdh-inc.com

April 5, 2013



Prepared pursuant to TIA/EIA-222-F Structural Standards for Steel Antenna Towers and Antenna Supporting Structures and the 2005 Connecticut Building Code (CBC)

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EXECUTIVE SUMMARY

At the request of SBA Network Services, Inc., FDH Engineering, Inc. performed a structural analysis of the monopole located in Danielson, CT to determine whether the tower is structurally adequate to support both the existing and proposed loads pursuant to the *Structural Standards for Steel Antenna Towers and Antenna Supporting Structures, TIA/EIA-222-F* and the *2005 Connecticut Building Code (CBC)*. Information pertaining to the existing/proposed antenna loading, current tower geometry, geotechnical data, foundation dimensions, and member sizes was obtained from:

- Fred A. Nudd Corporation (Project No. 6410) Design of 155' Monopole dated October 27, 1998
- Jaworksi Geotech, Inc. (Project No. C98423G) Geotechnical Evaluation dated October 14, 1998
- Vertical Structures, Inc. (Job No. TA2009-007-021) 2009 Modifications Tower Rework For A 155' Nudd M-200 Monopole dated July 16, 2009
- Vertical Structures, Inc. (Job No. TA2008-007-031) 2008 Modifications Tower Rework For A 155' Nudd M-200 Monopole dated November 10, 2008
- Vertical Structures, Inc. (Job No. 2002-007-001) 2002 Modifications Tower Rework For A 155' Monopole dated October 7, 2002
- FDH Engineering, Inc. (Project No. 12-01571E S4) Modification Drawings for a 155' Monopole dated January 23, 2013
- SBA Network Services, Inc.

The *basic design wind speed* per the *TIA/EIA-222-F* standards and the *2005 Connecticut Building Code* is 85 mph without ice and 38 mph with 1" radial ice. Ice is considered to increase in thickness with height.

Conclusions

With the existing and proposed antennas from Sprint in place at 147 ft, the tower meets the requirements of the *TIA/EIA-222-F* standards and the *2005 Connecticut Building Code* provided the **Recommendations** listed below are satisfied. Furthermore, provided the foundation was constructed per the original design drawings (see Fred A. Nudd Project No. 6410) and using the existing soil parameters (see Jaworksi Geotech, Inc. Project No. C98423G), the foundation should have the necessary capacity to support both the proposed and existing loading. For a more detailed description of the analysis of the tower, see the **Results** section of this report.

Our structural analysis has been performed assuming all information provided to FDH Engineering, Inc. is accurate (i.e., the steel data, tower layout, existing antenna loading, and proposed antenna loading) and that the tower has been properly erected and maintained per the original design drawings.

Recommendations

To ensure the requirements of the *TIA/EIA-222-F* standards and the *2005 Connecticut Building Code* are met with the existing and proposed loading in place, we have the following recommendations:

1. The existing diplexers and TMAs should be installed directly behind the existing and proposed panel antennas.
2. The modifications outlined in FDH Engineering, Inc. (Project No. 12-01571E S4) Modification Drawings for a 155' Monopole dated January 23, 2013 must be installed correctly for this analysis to be valid.

APPURTENANCE LISTING

The proposed and existing antennas with their corresponding cables/coax lines are shown in **Table 1**. *If the actual layout determined in the field deviates from the layout, FDH Engineering, Inc. should be contacted to perform a revised analysis.*

Table 1 - Appurtenance Loading**Existing Loading:**

Antenna Elevation (ft)	Description	Coax and Lines ¹	Carrier	Mount Elevation (ft)	Mount Type
155	(3) Antel BXA-70063-6CF (6) Antel LPA-80080/4CF (3) Antel BXA-171085-12BF (6) RFS FD9R6004/2C-3L Diplexers	(12) 1-5/8"	Verizon	155	(1) 14' Low Profile Platform
147	(6) Decibel DB980H90E-M	(6) 1-5/8"	Sprint	147	(1) 14' Low Profile Platform
137	(6) Dapa 59212	(6) 1-5/8"	T-Mobile	137	(1) 14' Low Profile Platform
127	(6) Powerwave 7770.00 (3) KMW AM-X-CD-17-65-00T (6) Powerwave LGP21401 TMAs (6) Powerwave LGP21903 Diplexers	(12) 1-5/8" (2) 3/4" DC (1) 7/16" Fiber	New Cingular	127	(1) 14' Low Profile Platform
125	(6) Ericsson RRUS-11 RRUs (1) Raycap DC2-48-60-18-8F Surge Arrestor			125	(1) Universal Ring Mount (Part No. LWRM)
117	(6) Kathrein 742 351	(12) 1-5/8" (1) 3/8"	Metro PCS	117	(3) 12' T-Frames
35	(1) Decibel DB589 Omni	(2) 7/8"	American Messaging	31	(1) Standoff

1. Coax installed inside the monopole shaft unless otherwise noted.

Proposed Loading:

Antenna Elevation (ft)	Description	Coax and Lines	Carrier	Mount Elevation (ft)	Mount Type
147	(3) RFS APXVSP18-C-A20 (3) ALU 1900MHZ RRUs (3) ALU 800MHZ RRUs (3) ALU 800MHZ Filters (4) RFS ACU-A20-N RETs	(3) 1-1/4"	Sprint	147	(1) 14' Low Profile Platform

RESULTS

The following yield strength of steel for individual members was used for analysis:

Table 2 - Material Strength

Member Type	Yield Strength
Tower Shaft Sections	53 ksi and 50 ksi
Base Plate	36 ksi
Anchor Bolts	90 ksi & 105 ksi

Table 3 displays the summary of the ratio (as a percentage) of force in the member to their capacities. Values greater than 100% indicate locations where the maximum force in the member exceeds its capacity. *Note: Capacities up to 100% are considered acceptable.* **Table 4** displays the maximum foundation reactions.

If the assumptions outlined in this report differ from actual field conditions, FDH Engineering, Inc. should be contacted to perform a revised analysis. Furthermore, as no information pertaining to the allowable twist and sway requirements for the existing or proposed appurtenances was provided, deflection and rotation were not taken into consideration when performing this analysis.

See the **Appendix** for detailed modeling information.

Table 3 - Summary of Working Percentage of Structural Components

Section No.	Elevation ft	Component Type	Size	% Capacity*	Pass Fail
L1	155 – 115	Pole	TP33.925x26.125x0.25	53.3	Pass
L2	115 – 100	Pole	TP36.474x32.45x0.25	96.8	Pass
L3	100 – 70	Pole	TP41.57x36.474x0.3125	99.9	Pass
L4	70 – 59.1	Pole	TP47.358x39.9258x0.375	98.9	Pass
	59.1 – 36	Modified Pole**	TP47.358x39.9258x0.375	75.8	Pass
L5	36 – 0	Modified Pole**	TP53.9x45.4932x0.4331	93.1	Pass
		Anchor Bolts	(20) 2" Ø on 61" Ø BC	70.7	Pass
			(6) 2" Ø on 69" BC	77.0	
		Base Plate	67" Ø x 1.75" thk.	43.6	Pass
		Base Stiffeners	6" x 0.75"	93.2	Pass

* Capacities include 1/3 allowable stress increase per TIA/EIA-222-F standards.

** Existing bent plate modifications determined inadequate in this analysis, used for weight and wind area only.

Table 4 - Maximum Base Reactions

Base Reactions	Current Analysis* (TIA/EIA-222-F)	Original Design (TIA/EIA-222-F)
Axial	46 k	29 k
Shear	38 k	38 k
Moment	3,830 k-ft	3,559 k-ft

* Foundation determined to be adequate per independent analysis.

GENERAL COMMENTS

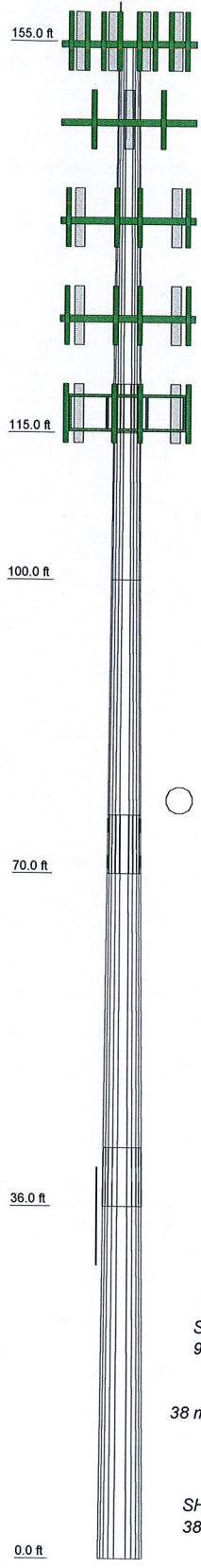
This engineering analysis is based upon the theoretical capacity of the structure. It is not a condition assessment of the tower and its foundation. It is the responsibility of SBA Network Services, Inc. to verify that the tower modeled and analyzed is the correct structure (with accurate antenna loading information) modeled. If there are substantial modifications to be made or the assumptions made in this analysis are not accurate, FDH Engineering, Inc. should be notified immediately to perform a revised analysis.

LIMITATIONS

All opinions and conclusions are considered accurate to a reasonable degree of engineering certainty based upon the evidence available at the time of this report. All opinions and conclusions are subject to revision based upon receipt of new or additional/updated information. All services are provided exercising a level of care and diligence equivalent to the standard and care of our profession. No other warranty or guarantee, expressed or implied, is offered. Our services are confidential in nature and we will not release this report to any other party without the client's consent. The use of this engineering work is limited to the express purpose for which it was commissioned and it may not be reused, copied, or distributed for any other purpose without the written consent of FDH Engineering, Inc.

APPENDIX

Section	1	2	3	4	5
Length (ft)	40.00	20.00	30.00	40.00	42.00
Number of Sides	12	12	12	12	12
Thickness (in)	0.2500	0.2500	0.3125	0.3750	0.4331
Socket Length (ft)	5.00		6.00	6.00	
Top Dia (in)	26.1250	32.4500	36.4740	39.9258	45.4932
Bot Dia (in)	33.9250	36.4740	41.5700	47.3560	53.9000
Grade	A36M-50	A36M-50	A36M-50	A36M-53	A36M-53
Weight (K)	3.3	1.9	4.0	7.1	9.8



DESIGNED APPURTENANCE LOADING

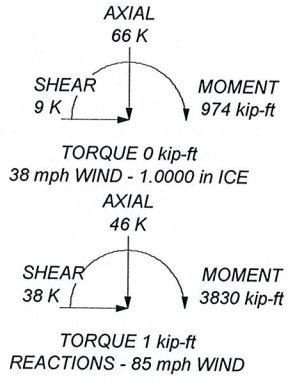
TYPE	ELEVATION	TYPE	ELEVATION
Lightning Rod	155	(2) Dapa 59212 w/Mount Pipe	137
BXA-70063/6CF w/ Mount Pipe	155	(2) Dapa 59212 w/Mount Pipe	137
BXA-70063/6CF w/ Mount Pipe	155	14' Low Profile Platform	137
BXA-70063/6CF w/ Mount Pipe	155	(2) Powerwave 7770.00 w/Mount Pipe	127
(2) LPA-80080/4CF W/Mount Pipe	155	(2) Powerwave 7770.00 w/Mount Pipe	127
(2) LPA-80080/4CF W/Mount Pipe	155	(2) Powerwave 7770.00 w/Mount Pipe	127
(2) LPA-80080/4CF W/Mount Pipe	155	AM-X-CD-17-65-00T-RET w/ Mount Pipe	127
BXA-171085-12BF w/ Mount Pipe	155	AM-X-CD-17-65-00T-RET w/ Mount Pipe	127
BXA-171085-12BF w/ Mount Pipe	155	AM-X-CD-17-65-00T-RET w/ Mount Pipe	127
(2) FD9R6004/2C-3L Diplexer	155	AM-X-CD-17-65-00T-RET w/ Mount Pipe	127
(2) FD9R6004/2C-3L Diplexer	155	(2) LGP21401 TMA	127
(2) FD9R6004/2C-3L Diplexer	155	(2) LGP21401 TMA	127
14' Low Profile Platform	155	(2) LGP21401 TMA	127
APXVSPP18-C-A20 w/Mount Pipe	147	(2) LGP21903 Diplexer	127
APXVSPP18-C-A20 w/Mount Pipe	147	(2) LGP21903 Diplexer	127
APXVSPP18-C-A20 w/Mount Pipe	147	(2) LGP21903 Diplexer	127
RRU-ALU 1900MHZ	147	(2) LGP21903 Diplexer	127
RRU-ALU 1900MHZ	147	Raycap DC2-48-60-18-8F	127
RRU-ALU 1900MHZ	147	14' Low Profile Platform	127
RRU-ALU 800MHZ	147	(2) RRUS-11	125
RRU-ALU 800MHZ	147	(2) RRUS-11	125
RRU-ALU 800MHZ	147	(2) RRUS-11	125
Filter- ALU 800MHZ	147	(1) Universal Ring Mount	125
Filter- ALU 800MHZ	147	(2) 742 351 w/ Mount Pipe	117
Filter- ALU 800MHZ	147	(2) 742 351 w/ Mount Pipe	117
(2) ACU-A20-N RET	147	(2) 742 351 w/ Mount Pipe	117
ACU-A20-N RET	147	(3) T-Frames	117
ACU-A20-N RET	147	DB589	31
14' Low Profile Platform	147	Standoff	31
(2) Dapa 59212 w/Mount Pipe	137		

MATERIAL STRENGTH

GRADE	Fy	Fu	GRADE	Fy	Fu
A36M-50	50 ksi	65 ksi	A36M-53	53 ksi	60 ksi

TOWER DESIGN NOTES

1. Tower is located in Windham County, Connecticut.
2. Tower designed for a 85 mph basic wind in accordance with the TIA/EIA-222-F Standard.
3. Tower is also designed for a 38 mph basic wind with 1.00 in ice. Ice is considered to increase in thickness with height.
4. Deflections are based upon a 50 mph wind.



<p>FDH Engineering, Inc. 6521 Meridian Drive, Suite 107 Raleigh, NC 27616 Phone: 919-7551012 FAX: 919-7551031</p>	Job: Danielson, CT00302-S-00
	Project: 1320631400
	Client: SBA Network Services, Inc. Drawn by: Adam Bryan App'd:
	Code: TIA/EIA-222-F Date: 04/05/13 Scale: NTS
	Path: _____ Dwg No. E-1



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

Sprint Existing Facility

Site ID: CT23XC407

Danielson
246 East Franklin Street
Danielson, CT 06239

October 20, 2012



EBI Consulting

environmental | engineering | due diligence

October 20, 2012

Sprint
Attn: RF Engineering Manager
1 International Boulevard, Suite 800
Mahwah, NJ 07495

Re: Emissions Values for Site: CT23XC407 – Danielson

EBI Consulting was directed to analyze the proposed upgrades to the existing Sprint facility located at 246 East Franklin Street, Danielson, CT, for the purpose of determining whether the emissions from the proposed Sprint equipment upgrades on this property are within specified federal limits.

All information used in this report was analyzed as a percentage of current Maximum Permissible Exposure (% MPE) as listed in the FCC OET Bulletin 65 Edition 97-01 and ANSI/IEEE Std C95.1. The FCC regulates Maximum Permissible Exposure in units of microwatts per square centimeter ($\mu\text{W}/\text{cm}^2$). The number of $\mu\text{W}/\text{cm}^2$ calculated at each sample point is called the power density. The exposure limit for power density varies depending upon the frequencies being utilized. Wireless Carriers and Paging Services use different frequency bands each with different exposure limits, therefore it is necessary to report results and limits in terms of percent MPE rather than power density.

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

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

Public exposure to radio frequencies is regulated and enforced in units of microwatts per square centimeter ($\mu\text{W}/\text{cm}^2$). The general population exposure limit for the cellular band is approximately 567 $\mu\text{W}/\text{cm}^2$, and the general population exposure limit for the PCS band is 1000 $\mu\text{W}/\text{cm}^2$. Because each carrier will be using different frequency bands, and each frequency band has different exposure limits, it is necessary to report percent of MPE rather than power density.



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

Additional details can be found in FCC OET 65.

CALCULATIONS

Calculations were done for the proposed upgrades to the existing Sprint Wireless antenna facility located at 246 East Franklin Street, Danielson, CT, using the equipment information listed below. All calculations were performed per the specifications under FCC OET 65. All calculations were performed assuming the main lobe of the antenna was focused at the base of the tower to present a worst case scenario. Actual values seen from this site will be dramatically less than those shown in this report. For this report the sample point is the top of a 6 foot person standing at the base of the tower.

For all calculations, all emissions were calculated using the following assumptions:

- 1) 3 CDMA Carriers (1900 MHz) were considered for each sector of the proposed installation.
- 2) 1 CDMA Carrier (850 MHz) was considered for each sector of the proposed installation
- 3) All radios at the proposed installation were considered to be running at full power and were uncombined in their RF transmissions paths per carrier prescribed configuration. Per FCC OET Bulletin No. 65 - Edition 97-01 recommendations to achieve the maximum anticipated value at each sample point, all power levels emitting from the proposed antenna installation are increased by a factor of 2.56 to account for possible in-phase reflections from the surrounding environment. This is rarely the case, and if so, is never continuous.
- 4) For the following calculations the sample point was the top of a six foot person standing at the base of the tower. The actual gain in this direction was used per the manufactures supplied specifications.
- 5) The antenna used in this modeling is the APXVSPP18-C-A20. This is based on feedback from the carrier with regards to anticipated antenna selection. This antenna has a 15.9 dBd gain value at its main lobe at 1900 MHz and 13.4 dBd at its main lobe for 850 MHz. All calculations were performed assuming the main lobe of the antenna was focused at the base of the tower to present a worst case scenario.



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- 6) The antenna mounting height centerline of the proposed antennas is **145 feet** above ground level (AGL)
- 7) Emissions values for additional carriers were taken from the Connecticut Siting Council active database. Values in this database are provided by the individual carriers themselves.

All calculation were done with respect to uncontrolled / general public threshold limits

Site ID	CT23XC407 - Danielson
Site Address	246 East Franklin Street, Danielson, CT, 06239
Site Type	Monopole

Sector 1																	
Antenna Number	Antenna Make	Antenna Model	Radio Type	Frequency Band	Technology	Power Out Per Channel (Watts)	Number of Channels	Composite Power	Antenna Gain in direction of sample point (dBi)	Antenna Height (ft)	Antenna analysis height	Cable Size	Cable Loss (dB)	Additional Loss	ERP	Power Density Value	Power Density Percentage
1a	RFS	APXSPP18-C-A20	RRH	850 MHz	CDMA / LTE	20	3	60	15.9	145	139	1/2"	0.5	0	2080.4211	38.7104	3.87104%
Sector total Power Density Value:													5.151%				
Sector 2																	
2a	RFS	APXSPP18-C-A20	RRH	850 MHz	CDMA / LTE	20	3	60	15.9	145	139	1/2"	0.5	0	2080.4211	38.7104	3.87104%
Sector total Power Density Value:													5.151%				
Sector 3																	
3a	RFS	APXSPP18-C-A20	RRH	850 MHz	CDMA / LTE	20	3	60	15.9	145	139	1/2"	0.5	0	2080.4211	38.7104	3.87104%
Sector total Power Density Value:													5.151%				

Site Composite MPE %	
Carrier	MPE %
Sprint	15.452%
AT&T	6.050%
Metro PCS	3.500%
Verizon Wireless	13.450%
T-Mobile	1.720%
Total Site MPE %	40.172%



Summary

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

The anticipated Maximum Composite contributions from the Sprint facility are **15.452% (5.151% from each sector)** of the allowable FCC established general public limit considering all three sectors simultaneously sampled at the ground level.

The anticipated composite MPE value for this site assuming all carriers present is **40.172%** of the allowable FCC established general public limit sampled at the ground level. This is based upon values listed in the Connecticut Siting Council database for existing carrier emissions

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

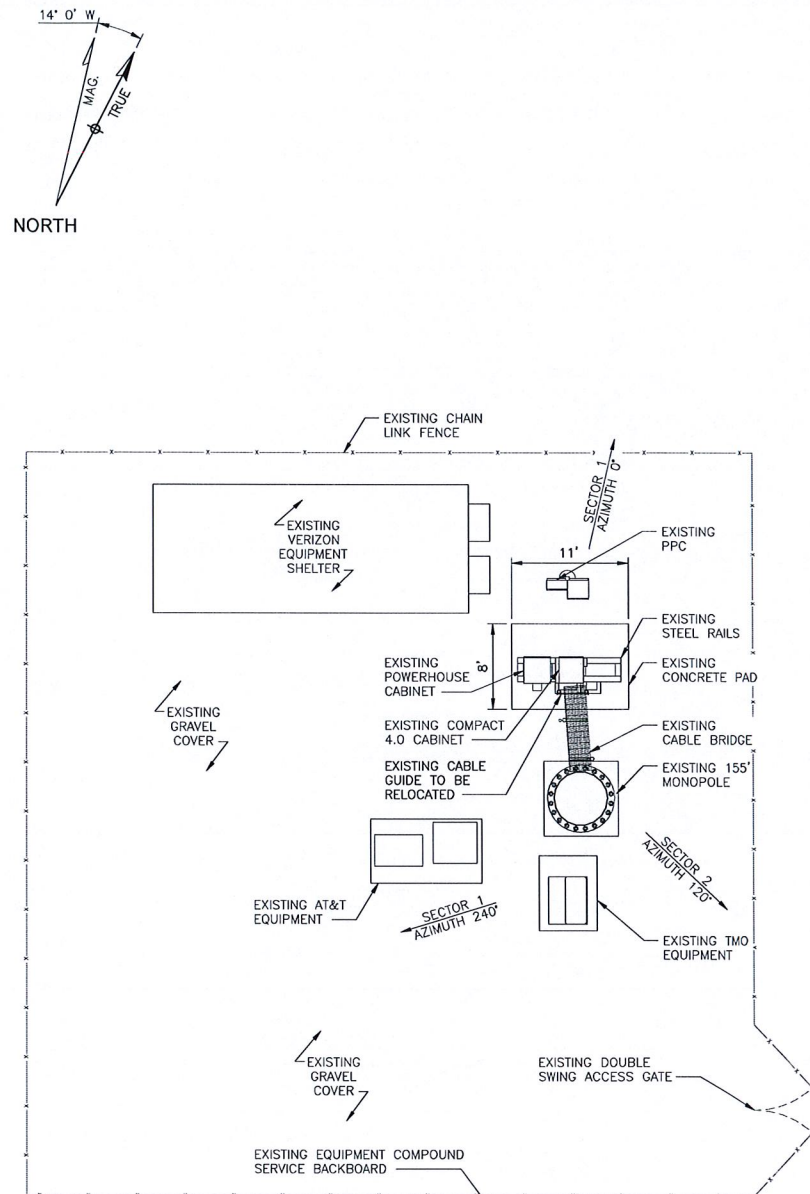
Scott Heffernan

RF Engineering Director

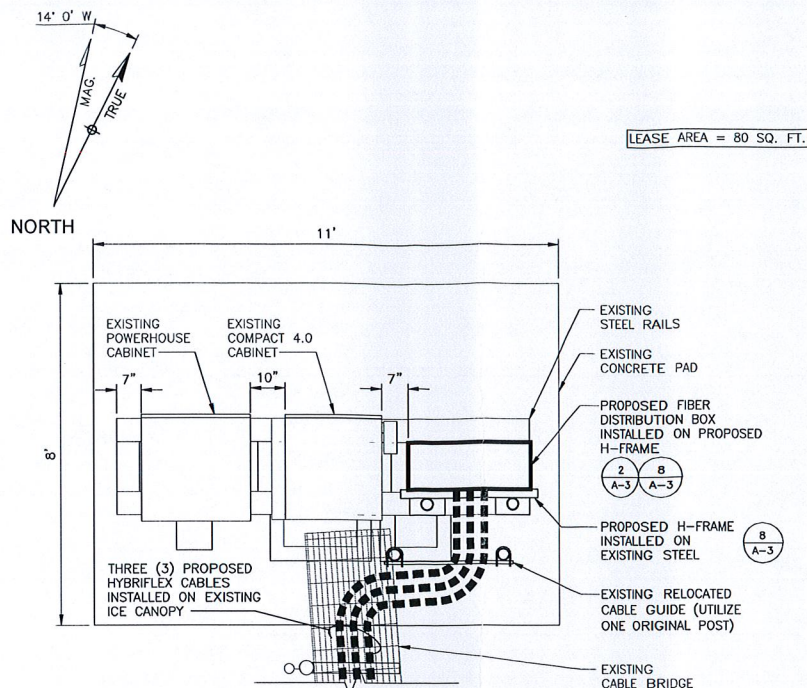
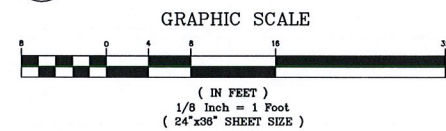
EBI Consulting

21 B Street

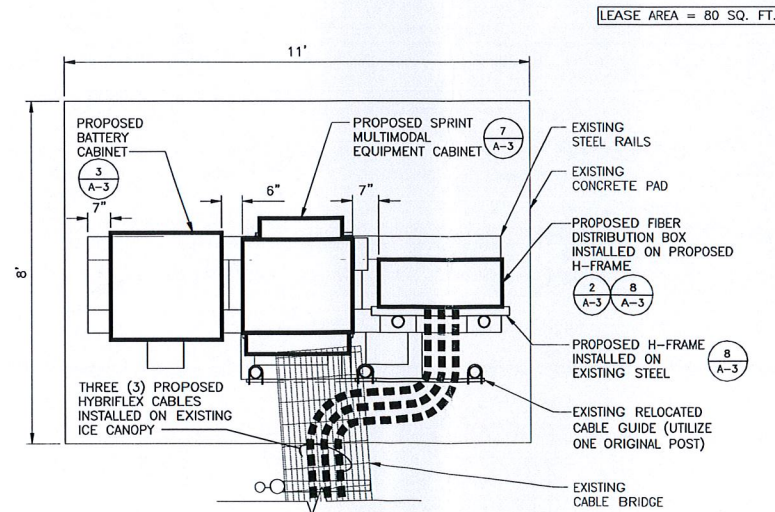
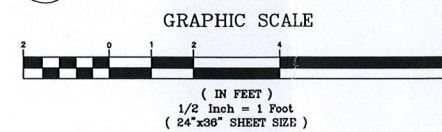
Burlington, MA 01803



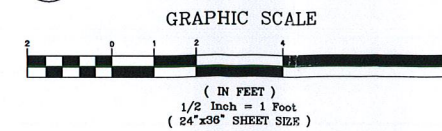
1 EXISTING COMPOUND PLAN
SCALE: 1/8"=1'



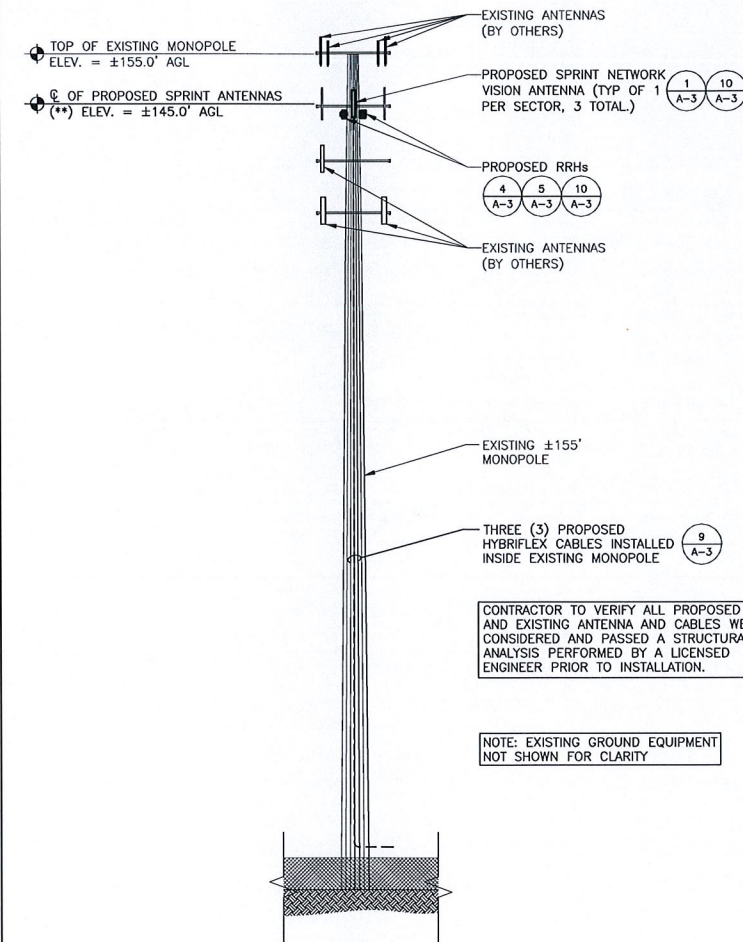
2 INTERIM EQUIPMENT PLAN
SCALE: 1/2"=1'



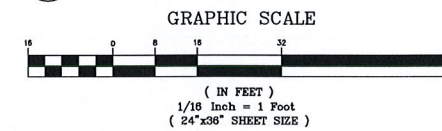
3 FINAL EQUIPMENT PLAN
SCALE: 1/2"=1'



(**) - NOTE: NETWORK VISION ANTENNA RADIATION CENTERLINE AGL (FEET) BASED ON SBA EQUIPMENT DATABASE AND SBA TOWER STRUCTURAL ANALYSIS AND WILL SUPERSEDE ANY CONFLICTING INFORMATION DERIVED FROM THE ALU/SPRINT DATABASE



4 FINAL MONOPOLE ELEVATION
SCALE: 1/16"=1'



Sprint
VISION
1 INTERNATIONAL BLVD, SUITE 800
MAHWAH, NJ 07495
PHONE: (201) 684-4000 FAX: (201) 684-4223

Alcatel-Lucent
1 ROBBINS ROAD
WESTFORD, MA 01886
OFFICE: (978) 692-1153

SBA
SBA COMMUNICATION CORP.
5900 BROKEN SOUND PARKWAY
BOCA RATON, FL 33487
TEL: (561) 228-9523
FAX: (561) 228-3572

COM-EX Consultants
4 SECOND AVENUE
SUITE 204
DENVER, NJ 07834
PHONE: 862.209.4300
FAX: 862.209.4301

INFORMATION ON THIS SET OF DRAWINGS IS NOT FOR OFFICIAL USE UNLESS ACCOMPANIED BY THE STAMPED SEAL & SIGNATURE OF A PROFESSIONAL ENGINEER

NICHOLAS D. BARILE
PROFESSIONAL ENGINEER, CT LIC. No. 28643

SCHEDULE OF REVISIONS		
REV. NO.	DATE	DESCRIPTION OF CHANGES
1	09/27/12	CONSTRUCTION REVIEW
2		
3		
4		
5		
6		
7		
8		
9		

DRAWN BY: GSB
CHECKED BY: NB
SCALE: AS NOTED
JOB NO: 12025-SBA

CT23XC407 DANIELSON
246 EAST FRANKLIN ST.
DANIELSON, CT 06239
WINDHAM COUNTY

DRAWING TITLE:
COMPOUND PLAN, EQUIPMENT PLANS & ELEVATION

DRAWING SHEET: 3 OF 9

A-1



1 INTERNATIONAL BLVD, SUITE 800
MAHWAH, NJ 07495
PHONE: (201) 684-4000 FAX (201) 684-4223



Alcatel-Lucent

1 ROBBINS ROAD
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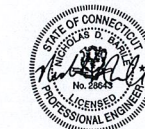


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5900 BROKEN SOUND PARKWAY
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NICHOLAS D. BARILE
PROFESSIONAL ENGINEER, CT LIC. No. 28643

SCHEDULE OF REVISIONS

9		
8		
7		
6		
5		
4		
3		
2		
1	09/27/12	CONSTRUCTION REVIEW
REV. NO.	DATE	DESCRIPTION OF CHANGES
DRAWN BY: GSB		
CHECKED BY: NB		
SCALE: AS NOTED		
JOB NO: 12025-SBA		

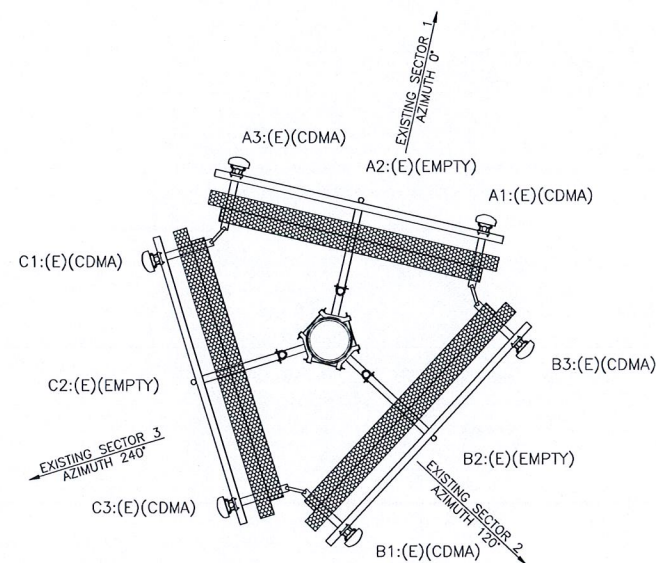
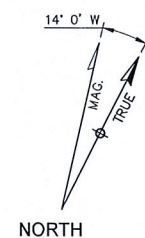
CT23XC407
DANIELSON
246 EAST FRANKLIN ST.
DANIELSON, CT 06239
WINDHAM COUNTY

DRAWING TITLE:

**ANTENNA
ORIENTATIONS
&
RF SYSTEM
SCHEDULE**

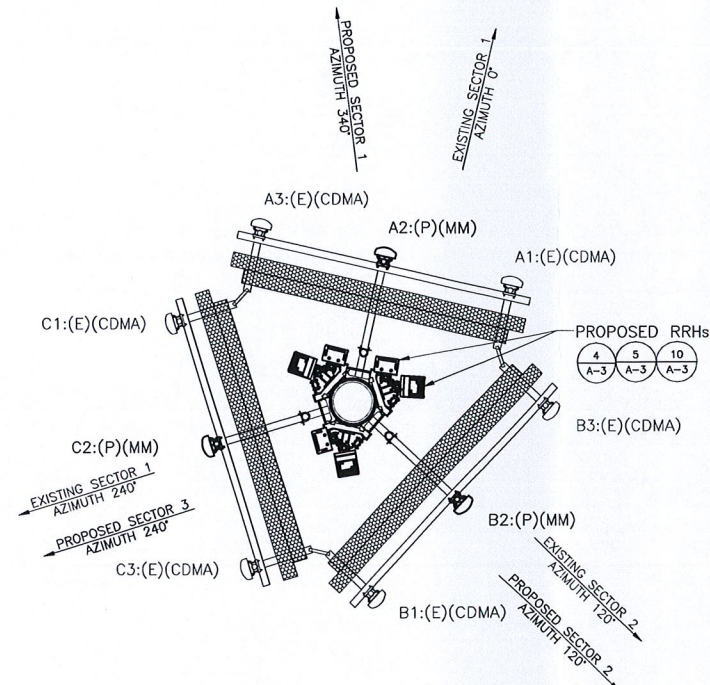
DRAWING SHEET: 4 OF 9

A-2



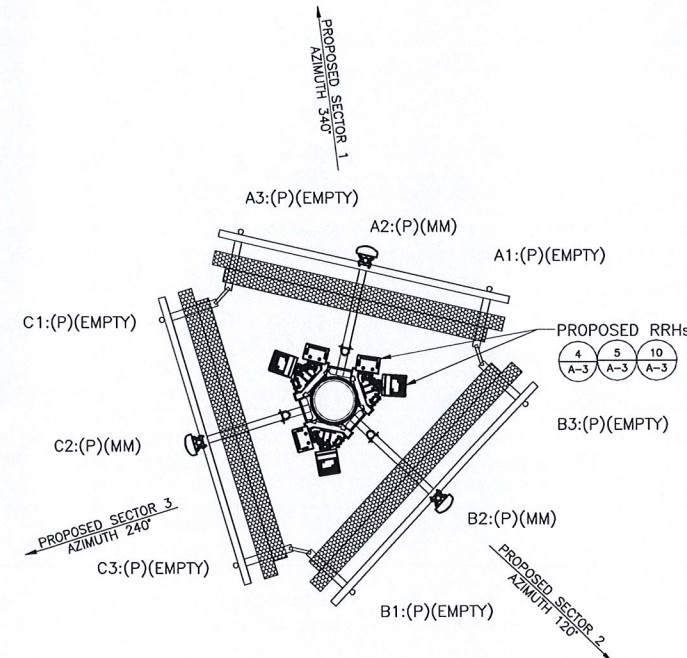
1 EXISTING ANTENNA PLAN
A-2 SCALE: N.T.S.

EXISTING AZIMUTHS TAKEN FROM PREVIOUS SIGNED
AND SEALED AS-BUILT CONSTRUCTION DRAWINGS



2 INTERIM ANTENNA PLAN
A-2 SCALE: N.T.S.

PROPOSED TOWER STRUCTURAL ANALYSIS IS
PENDING AND WILL BE PROVIDED BY TOWER
OWNER. GC TO INCLUDE IN THEIR BID AND
SCOPE OF WORK ALL STRUCTURAL MODS
AND EQUIPMENT MODS INCLUDED IN ANY
SUBSEQUENT TOWER STRUCTURAL ANALYSIS



3 FINAL ANTENNA PLAN
A-2 SCALE: N.T.S.

ANTENNA STATUS LEGEND:

- (E) - EXISTING
- (P) - PROPOSED
- (SP) - ACTIVE SINGLE POLE SPRINT ANTENNA
- (CDMA) - ACTIVE SPRINT DUAL POLE ANTENNA
- (MM) - 800/1900MHz MULTIMODAL ANTENNA
- (EMPTY) - EMPTY MAST

June 05, 2014

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

RECEIVED
JUN - 6 2014
CONNECTICUT
SITING COUNCIL

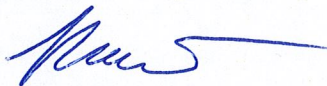
RE: Notice of Work Complete
246 East Franklin Street
Danielson, CT 06239
Sprint Site #: NV2.5_CT23XC407

Dear Mr. Martin and Members of the Siting Council:

On behalf of Sprint Spectrum, SBA Communications is hereby notifying the Connecticut Siting Council that work has been completed to the aforementioned telecommunications facility.

Pursuant to the Council's letter of acknowledgement dated May 08, 2013, please find the enclosed Post Modification Inspection Report confirming that the installation meets with the recommendations made in the structural analysis report.

Thank you,



Peter Nute
SBA Communications Corporation
33 Boston Post Road West Suite 320
Marlborough, MA 01752
508-251-0720 x 3804 + T
508-251-1755 + F
pnute@sbsite.com



ENGINEERING INNOVATION

6521 Meridien Drive
Raleigh, NC 27616
(919) 755-1012 P
(919) 755-1031 F

July 23rd, 2013

Stephen Roth
Regional Site Manager
SBA Network Services
5900 Broken Sound Parkway, NW
Boca Raton, FL 33487

Subject: Modification Inspection Report

SBA Designation: SBA Site Number: CT00302-S
SBA Site Name: Danielson

Inspection Firm Designation: FDH Inc. Project Number: 1301411700

Site Data: 246 East Franklin Street, Danielson, CT 06239
Latitude 41.7958° Longitude -71.8703°
155' Monopole

FDH Engineering, Inc. is pleased to submit this “**Modification Inspection Report**” (MI Report) to SBA Network Services for the modification/reinforcement to the subject structure. This Modification Inspection (MI) was performed in accordance with Contract Documents, and FDH Inspection Standards. The purpose of this MI is to confirm that the modification installation configuration and workmanship are in accordance with the contract document(s) listed in Table 1. The MI is not a review of the adequacy or effectiveness of the modification solution.

Table 1 – General Information

MI Inspector	FDH Engineering Inc.	Brad Thompson 919-755-1012
Independent	EOR	Turnkey
Modification Design EOR	FDH Engineering Inc.	919-755-1012
General Contractor	Patriot Towers, Inc.	Doug Harradine 585-889-3447
Sub to the General Contractor	NA	NA
Field CWI for the General Contractor	Veteran Welding & Consulting	James M. Claypool 585-233-8257
Field NDE for the General Contractor	NA	NA

Table 2 – Design Documents

Tower Modification Drawings	FDH Engineering 12-0157E S4 Dated 3-13-13	FDH Engineering, Inc.
-----------------------------	--	-----------------------

Based on our inspection, *FDH Engineering* determines this project:

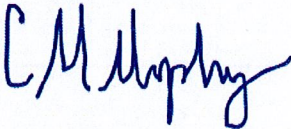
X_PASSING MI

The configuration, materials and/or workmanship of the modifications are installed in accordance with the Contract Documents and no deficiencies were found.

All observations were performed after the construction was complete and that *FDH Engineering, Inc.* was not present during the construction phase.

We at *FDH Engineering, Inc.* appreciate the opportunity of providing our continuing professional services to you and SBA Network Services. If you have any questions or need further assistance on this or any other projects please give us a call.

Respectfully submitted,



Christopher M. Murphy P.E.
Connecticut License #25842



Project Closeout Information - Table of Contents

PRE-CONSTRUCTION

- MI Checklist Drawing
- EOR Approved Shop Drawings
- Fabrication Inspection
- Fabricator Certified Welding Inspection (CWI)
- Material Testing Report (MTR)
- Fabricator NDE Inspection
- NDE Report of Monopole Base Plate
- Packing Slips

Reference Document

- Page 5
- NA
- NA
- NA
- Page 6-12
- NA
- NA
- NA

CONSTRUCTION

- Construction Inspections
- Foundation Inspections
- Concrete Compression Strength and Slump Tests
- Post Installed Anchor Rod Verification
- Base Plate Grout Verification
- Contractor's Certified Weld Inspection
- Earthwork: Lift and Density
- Galvanization Verification
- Guy Wire Tension Report
- GC As-Built Documents

- NA
- NA
- NA
- NA
- NA
- Page 13
- NA
- NA
- NA
- NA

POST-CONSTRUCTION

- MI Inspector Redline/Record Drawings
- Engineer Approval
- Post Installed Anchor Rod Pull-out Testing
- On-Site Inspection Photographs

- Page 14-21
- Page 22
- NA
- See Table 3

Table 3 – On-Site Inspection Photographs

PH#01 – Flat Plate Installation	PH#02– Flat Plate Installation	PH#03– Flat Plate Installation	PH#04- Flat Plate Installation
			
PH#01 – Base Plate Stiffener Extensions	PH#02– Base Plate Stiffener Extensions	PH#03– Base Plate Stiffener Extensions	PH#04- Base Plate Stiffener Extensions
			

PCI CHECKLIST	
CONSTRUCTION/INSTALLATION INSPECTIONS AND TESTING REQUIRED	REPORT ITEM
PRE-CONSTRUCTION	
X	PCI CHECKLIST DRAWING
N/A	EOR APPROVED SHOP DRAWINGS
N/A	FABRICATION INSPECTION
N/A	FABRICATOR CERTIFIED WELD INSPECTION
X	MATERIAL TEST REPORT (MTR)
N/A	FABRICATOR NDE INSPECTION
N/A	NDE REPORT OF MONOPOLE BASE PLATE (AS REQUIRED)
X	PACKING SLIPS
ADDITIONAL TESTING AND INSPECTIONS:	
CONSTRUCTION	
X	CONSTRUCTION INSPECTIONS
N/A	FOUNDATION INSPECTIONS
N/A	CONCRETE COMP. STRENGTH AND SLUMP TESTS
N/A	POST INSTALLED ANCHOR ROD VERIFICATION
N/A	BASE PLATE GROUT VERIFICATION
X	CONTRACTOR'S CERTIFIED WELD INSPECTION
N/A	EARTHWORK: LIFT AND DENSITY
X	ON SITE COLD GALVANIZING VERIFICATION
N/A	GUY WIRE TENSION REPORT
X	GC AS-BUILT DOCUMENTS
ADDITIONAL TESTING AND INSPECTIONS:	
POST-CONSTRUCTION	
X	PCI INSPECTOR REDLINE OR RECORD DRAWING(S)
N/A	POST INSTALLED ANCHOR ROD PULL-OUT TESTING
X	PHOTOGRAPHS
ADDITIONAL TESTING AND INSPECTIONS:	

NOTE: X DENOTES A DOCUMENT NEEDED FOR THE PCI REPORT
 N/A DENOTES A DOCUMENT THAT IS NOT REQUIRED FOR THE PCI REPORT

POST CONSTRUCTION INSPECTION NOTES:

GENERAL

1. THE POST CONSTRUCTION INSPECTION (PCI) IS A VISUAL INSPECTION OF TOWER MODIFICATIONS AND A REVIEW OF CONSTRUCTION INSPECTIONS AND OTHER REPORTS TO ENSURE THE INSTALLATION WAS CONSTRUCTED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS, NAMELY THE MODIFICATION DRAWINGS, AS DESIGNED BY THE ENGINEER OF RECORD (EOR).
2. THE PCI IS TO CONFIRM INSTALLATION CONFIGURATION AND WORKMANSHIP ONLY AND IS NOT A REVIEW OF THE MODIFICATION DESIGN ITSELF, NOR DOES THE PCI INSPECTOR TAKE OWNERSHIP OF THE MODIFICATION DESIGN. OWNERSHIP OF THE STRUCTURAL MODIFICATION DESIGN EFFECTIVENESS AND INTEGRITY RESIDES WITH THE EOR AT ALL TIMES.
3. ALL PCI'S SHALL BE CONDUCTED BY A PCI INSPECTOR THAT IS APPROVED TO PERFORM ELEVATED WORK FOR FDH ENGINEERING, INC.
4. TO ENSURE THAT THE REQUIREMENTS OF THE PCI ARE MET, IT IS VITAL THAT THE GENERAL CONTRACTOR (GC) AND THE PCI INSPECTOR BEGIN COMMUNICATING AND COORDINATING AS SOON AS A PO IS RECEIVED. IT IS EXPECTED THAT EACH PARTY WILL BE PROACTIVE IN REACHING OUT TO THE OTHER PARTY. IF CONTACT INFORMATION IS NOT KNOWN, CONTACT YOUR FDH POINT OF CONTACT (POC).
5. REFER TO CCR-01 : CONTRACTOR CLOSEOUT REQUIREMENTS FOR FURTHER DETAILS AND REQUIREMENTS.

PCI INSPECTOR

1. THE PCI INSPECTOR IS REQUIRED TO CONTACT THE GC AS SOON AS RECEIVING A PO FOR THE PCI TO, AT A MINIMUM:
 - REVIEW THE REQUIREMENTS OF THE PCI CHECKLIST
 - WORK WITH THE GC TO DEVELOP A SCHEDULE TO CONDUCT ON-SITE INSPECTIONS, INCLUDING FOUNDATION INSPECTIONS
2. THE PCI INSPECTOR IS RESPONSIBLE FOR COLLECTING ALL GENERAL CONTRACTOR (GC) INSPECTION AND TEST REPORTS, REVIEWING THE DOCUMENTS FOR ADHERENCE TO THE CONTRACT DOCUMENTS, CONDUCTING THE IN-FIELD INSPECTIONS, AND SUBMITTING THE PCI REPORT TO FDH.

CORRECTION OF FAILING PCI'S

1. IF THE MODIFICATION INSTALLATION WOULD FAIL THE PCI ("FAILED PCI"), THE GC SHALL WORK WITH FDH TO COORDINATE A REMEDIATION PLAN IN ONE OF TWO WAYS:
 - CORRECT FAILING ISSUES TO COMPLY WITH THE SPECIFICATIONS CONTAINED IN THE ORIGINAL CONTRACT DOCUMENTS AND COORDINATE A SUPPLEMENT PCI.
 - OR, WITH FDH'S APPROVAL, THE GC MAY WORK WITH THE EOR TO RE-ANALYZE THE MODIFICATION/REINFORCEMENT USING THE AS-BUILT CONDITION.

REQUIRED PHOTOS

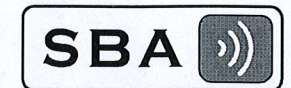
1. BETWEEN THE GC AND THE PCI INSPECTOR THE FOLLOWING PHOTOGRAPHS, AT A MINIMUM, ARE TO BE TAKEN AND INCLUDED IN THE PCI REPORT:
 - PRE-CONSTRUCTION GENERAL SITE CONDITION
 - PHOTOGRAPHS DURING THE REINFORCEMENT MODIFICATION CONSTRUCTION/ERECTION AND INSPECTION
 - RAW MATERIALS
 - PHOTOS OF ALL CRITICAL DETAILS
 - WELD PREPARATION
 - BOLT INSTALLATION AND TORQUE
 - FINAL INSTALLED CONDITION
 - SURFACE COATING REPAIR
 - POST CONSTRUCTION PHOTOGRAPHS
 - FINAL INFIELD CONDITION
2. PHOTOS OF ELEVATED MODIFICATIONS TAKEN FROM THE GROUND SHALL BE CONSIDERED INADEQUATE.

PREPARED BY:

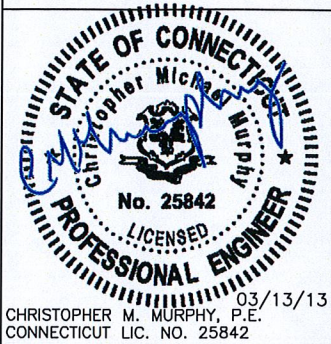


ENGINEERING INNOVATION

PREPARED FOR:



5900 BROKEN SOUND PARKWAY, NW
 BOCA RATON, FL 33487
 (800) 487-SITE



DRAWN BY: OP
 CHECKED BY: JCH
 ENG APP'VD: CMM
 PROJECT NO: 12-01571E S4

SUBMITTALS		
DATE	DESCRIPTION	REV
01/23/13	PRELIMINARY/REVIEW	A
03/13/13	CONSTRUCTION	1

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SITE NAME:
DANIELSON

SITE NUMBER:
CT00302-S

SITE ADDRESS:
 246 EAST FRANKLIN STREET
 DANIELSON, CT 06239

SHEET TITLE
POST CONSTRUCTION INSPECTION NOTES

SHEET NUMBER
N-1



Project: Danielson / CT 00302 -5
Sheet _____ of _____
By: Patriot
Checked By: Stephan

Date: 4/25/13
FDH Project #: _____
Drawing #: _____

1- 1/4" THK PLATE = ✓

3/4" THK PLATE = ✓

3/16" THK PLATE = ✓

PLATE = A572-65 (65KSI)

OK
L



ENGINEERING & FABRICATION

Fabricator/Supplier Material Statement

Form Number: MTR-01

Site Name:	Danfeleton
Site ID:	CT00302-S
Proposed Carrier:	Sprint / New Cingular
Tower Type:	165 Monopole
Site Address:	248 East Franklin Street Danfeleton, CT 06239

FDH No.:	1301411700
Str. Analysis Date:	10/16/12
Drawing Date:	3/13/13
Drawing Issue:	Construction
Coordinates:	41.7958° -71.8703°

Material Statement:
 This statement certifies that all materials and hardware bearing the above listed descriptions were used in this project/order. The attached "mill test reports" (MTR) are specific to the site listed above only. The performing contractor must submit all MTRs in order to receive a passing Post Modification Inspection. Failure to provide these documents could result in nonpayment, PO deductions and/or additional scopes of work.

Material Information:

No.	Material Description	Project Use	Vendor	QTY	Heat No.	ASTM Spec
1	Ajax Bolts	Fabrication	D&D Welding	180		
2	6" x 240" of 1-1/4" GR65 Plate	Fabrication	D&D Welding	9	3500362(9)	A572
3	4' x 8' of 3/16" Plate	Fabrication	D&D Welding	1	A2R1637-02	A588
4	4' x 10' of 3/4" Plate	Fabrication	D&D Welding	1	1H254	A572

ALL MTRS LISTED ABOVE MUST BE INCLUDED WITH THIS STATEMENT AND HEAT NO. INITIALED. DO NOT INCLUDE NON-APPLICABLE MTRS.

Notary Statement:

Patriot Towers, Inc.
 Subcontractor Company Name

[Signature] 4/24/2013
 Authorized Signature Date

Douglas Harradine Vice President
 Printed Name Title

State Of: New York

County Of: Monroe

I, Jessica Johnson, a Notary Public of Monroe County, NY, certify that Douglas Harradine personally appeared before me this day and acknowledged that he/she is the Vice President (title) of Patriot Towers Inc (subcontractor), a S corporation, and as Vice President (title), being authorized to do so, executed the foregoing instrument on behalf of the corporation. Witness my hand and official stamp or seal, this 24th day of April, 2013.

Notary Public, State of New York
 Qualified in Monroe County
 Reg. No. 01JO8194496
 Commission Expires 9/29/2016

Jessica Johnson Jessica Johnson
 Notary Public Signature and Printed Name

My Commission Expires: 9/29/2016

(Notary Stamp or Seal)

Customer Name

Customer PO#

Shipper No

Heat Number

D & D Welding

454424

2H254

EVRAZ

CLAYMONT STEEL ADVISORY EVRAZ U.S. INC.

Material Test Report

B/L: 272483

4001 Philadelphia Pike, Claymont DE 19703

08/13/2010

Sold To: LOVEMAN STEEL CORPORATION

5465 PERKINS ROAD, P.O. BOX 46430, BEDFORD, OH 44148-0430

KLEIN STEEL SERVICE CO. - SO# 89230-004

CUST PO# MF8132-OP

PT# A672-85.75

HEAT# 2H254 - SLAB# 405

A672-66

QTY-1; 1.25"x4.60"x133"

Order 212112-03

Customer PO 0056240-01

Specifications:

ASTM A572/A572M-07 Grade 65(450) Type 2

Products Shipped for Order 212112-03 (sorted by Serial)

Serial	Heat-Slab Orig	R/R	Plate Size in Inches	Plate Size in MM	Lbs	Kg
993043-1	2H254-405 USA	13.0	0.7500 x 96.0000 x 480.0000	19.05 x 2438.40 x 12192.00	9,801	4,410

Shipment Summary of Order 212112-03: 1 piece 9,801 lbs (4,410 kg)

Chemical Analysis for Order 212112-03 (sorted by Heat)

Heat	C	Mn	P	S	Si	Cu	Ni	Cr	Mo	Sn
2H254	0.12	1.37	0.013	0.021	0.01	0.285	0.185	0.207	0.050	0.021
	Al	V	Nb/Cb	N	Alsol	Ti	B			
	0.016	0.12	0.00	0.010	0.012	0.001	0.0001			

Tensile Tests for Order 212112-03 (sorted by Heat)

Serial	Heat-Slab	Gauge		Tensile		Yield		Elongation		RA %	Head Tail	Dir	Norm	S/R	Test ID
		Inches	MM	KSI	MPA	KSI	MPA	%	In.						
992996-1	2H254-104	0.6250	15.88	91	626	75	516	16	8	200		Tran			263195
993101-1	2H254-402	0.8125	20.64	87	598	70	480	20	2	50		Tran			263425

Other Information for Order 212112-03

Material is 100% melted and manufactured in the USA. No weld repair has been performed.

Order 212231-03

Customer PO 005266-00

Specifications:

ASTM A672/A572M-07 Grade 50(345) Type 2 Fully Killed Fine Grain Practice

Products Shipped for Order 212231-03 (sorted by Serial)

Serial	Heat-Slab Orig	R/R	Plate Size in Inches	Plate Size in MM	Lbs	Kg
991942-2	2H191-301 USA	26.0	0.3750 x 120.0000 x 299.0000	9.53 x 3048.00 x 7594.60	3,816	1,717

Shipment Summary of Order 212231-03: 1 piece 3,816 lbs (1,717 kg)

Chemical Analysis for Order 212231-03 (sorted by Heat)

Heat	C	Mn	P	S	Si	Cu	Ni	Cr	Mo	Sn
2H191	0.07	0.91	0.014	0.022	0.24	0.277	0.180	0.168	0.061	0.014
	Al	V	Nb/Cb	N	Alsol	Ti	B			
	0.006	0.04	0.00	0.010	0.005	0.002	0.0000			

Tensile Tests for Order 212231-03 (sorted by Heat)

Serial	Heat-Slab	Gauge		Tensile		Yield		Elongation		RA %	Head Tail	Dir	Norm	S/R	Test ID
		Inches	MM	KSI	MPA	KSI	MPA	%	In.						
991942-1	2H191-301	0.3750	9.53	73	505	65	446	17	8	200		Tran			263061

Other Information for Order 212231-03

Material is 100% melted and manufactured in the USA.

Shipment Grand Totals of B/L 272483: 4 pieces 42,034 lbs (18,915 kg)

Unless otherwise specified, Mercury, radium or alpha source materials have not been used.

I certify the above results to be correct as contained in the records of the corporation.

Chief Metallurgist, David J. Cemava

D. J. Cemava

Revision: 1



Laboratory Test Certificate

DATE: 10/04/13

PAGE: 1

CUSTOMER

usa

Lab Test Code 453897

OSB20.95B

M20 X 95 ONESIDE BOLT LPS

QARN: N0005431/20

Test / Method	Specifications			Test Results			Test Date
	Min	Max	Units	Min	Max	Units	
Wedge Tensile Test AS/NZS4291.1	203.000	0.000	KN	224.000	224.000	KN	10/04/13
Hardness AS1815.1/1817.1	23.000	34.000	HRC	28.000	29.000	HRC	10/04/13

Ajax Ref: 483738

LPS Stock for Novoc 5694

This test certificate relates only to samples tested of the manufacturing batch



NATA Accredited Laboratory No: 1202

Accredited for compliance with ISO/IEC 17025. The results of the tests, calibration and/or measurements included in this document are traceable to Australian/National standards.

This document shall not be reproduced.

Signed by NATA Signatory

AJAX ENGINEERED FASTENERS

LABCERT

Klein Steel Service Inc.

105 Vanguard Pkwy
Rochester, NY 14606
Phone: 585-328-4000 Fax: 585-328-0470
Website: www.kleinsteel.com

April 06, 2013

1:42:08AM

Page 1 of 1

Shipper No. 457593

Bill To D & D Welding
4710 Rt 104
Williamson, NY 14589

Ship To D & D Welding
4710 Rt 104
Williamson, NY 14589

Attn: MATT 259-4095

315-589-4700

Terms: .5% 10 Net 30

Contract:

Customer P.O. Number: DANIELSON

F.O.B.: Delivered

Ship Via: Klein

Sales 1: Ron Pritchard

Sales 2: Peter Diamond

Order No: 457593

Due Date: 4/2/13

Ship Qty	Order Qty	UM	Description	Width	Length	Weight
9	9	P	1-1/4" A572 GR65 PLATE	6"	240"	4,594.50

Heat Numbers: 3500362(9)

Total Weight

4,594.50

Shipping Instructions:

Receiving Hours:

Max Bundle Weight: 0

Spacers:

Test Certificates Required

Messages:

6000# MAX LIFT

+

DANIELSON

MAX BUNDLE WEIGHT #6000

Date 4/8/13

Driver Sig _____

Print Name Glenn

Consignee Sig _____

Print Name _____

Customer is responsible for unloading material upon delivery.

Veteran Welding & Consulting

James M. Claypool, CWI
6935 N. Slocum Rd. - Ontario, NY - 14519
(585) 233-8257

June 4, 2013

Reference # VW2013-45

Inspection Site: Ct00302-S

Project Name: Danielson

Contractor Name: Patriot Towers

Client Name: Patriot Towers

Specific Inspection Area: Tower Retrofit

Weldment Types: Flat Plates/Stiffeners/Step bolts

Welder verified: Yes

Inspection Results:

Visual inspection of the splice welds with CJP, Step bolts with 3/16" welds and Stiffeners with 5/16" and 3/8" welds meets the requirements modification detail. No obvious weld deficiencies were noted. All weld sizes meet the requirements as noted in the drawings.



James M Claypool
CWI 10011081
QC1 EXP. 1/1/2018

Re inspection Required: No

Project Status (Continuing/Closed): Closed

Inspection results reported to: Patriot Towers

James M. Claypool, CWI #10011081

Brayle Pate

POST CONSTRUCTION INSPECTION NOTES:

PCI CHECKLIST	
CONSTRUCTION/INSTALLATION INSPECTIONS AND TESTING REQUIRED	REPORT ITEM
PRE-CONSTRUCTION	
X	PCI CHECKLIST DRAWING
N/A	EDR APPROVED SHOP DRAWINGS
N/A	FABRICATION INSPECTION
N/A	FABRICATOR CERTIFIED WELD INSPECTION
X	MATERIAL TEST REPORT (MTR)
N/A	FABRICATOR NDE INSPECTION
N/A	NDE REPORT OF MONOPOLE BASE PLATE (AS REQUIRED)
X	PACKING SLIPS
ADDITIONAL TESTING AND INSPECTIONS:	
CONSTRUCTION	
X	CONSTRUCTION INSPECTIONS
N/A	FOUNDATION INSPECTIONS
N/A	CONCRETE COMP. STRENGTH AND SLUMP TESTS
N/A	POST INSTALLED ANCHOR ROD VERIFICATION
N/A	BASE PLATE GROUT VERIFICATION
X	CONTRACTOR'S CERTIFIED WELD INSPECTION
N/A	EARTHWORK: LIFT AND DENSITY
X	ON SITE COLD GALVANIZING VERIFICATION
N/A	GUY WIRE TENSION REPORT
X	GC AS-BUILT DOCUMENTS
ADDITIONAL TESTING AND INSPECTIONS:	
POST-CONSTRUCTION	
X	PCI INSPECTOR REDLINE OR RECORD DRAWING(S)
N/A	POST INSTALLED ANCHOR ROD PULL-OUT TESTING
X	PHOTOGRAPHS
ADDITIONAL TESTING AND INSPECTIONS:	

NOTE: X DENOTES A DOCUMENT NEEDED FOR THE PCI REPORT
N/A DENOTES A DOCUMENT THAT IS NOT REQUIRED FOR THE PCI REPORT

GENERAL

1. THE POST CONSTRUCTION INSPECTION (PCI) IS A VISUAL INSPECTION OF TOWER MODIFICATIONS AND A REVIEW OF CONSTRUCTION INSPECTIONS AND OTHER REPORTS TO ENSURE THE INSTALLATION WAS CONSTRUCTED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS, NAMELY THE MODIFICATION DRAWINGS, AS DESIGNED BY THE ENGINEER OF RECORD (EOR).
2. THE PCI IS TO CONFIRM INSTALLATION CONFIGURATION AND WORKMANSHIP ONLY AND IS NOT A REVIEW OF THE MODIFICATION DESIGN ITSELF, NOR DOES THE PCI INSPECTOR TAKE OWNERSHIP OF THE MODIFICATION DESIGN. OWNERSHIP OF THE STRUCTURAL MODIFICATION DESIGN EFFECTIVENESS AND INTEGRITY RESIDES WITH THE EOR AT ALL TIMES.
3. ALL PCI'S SHALL BE CONDUCTED BY A PCI INSPECTOR THAT IS APPROVED TO PERFORM ELEVATED WORK FOR FDH ENGINEERING, INC.
4. TO ENSURE THAT THE REQUIREMENTS OF THE PCI ARE MET, IT IS VITAL THAT THE GENERAL CONTRACTOR (GC) AND THE PCI INSPECTOR BEGIN COMMUNICATING AND COORDINATING AS SOON AS A PO IS RECEIVED. IT IS EXPECTED THAT EACH PARTY WILL BE PROACTIVE IN REACHING OUT TO THE OTHER PARTY. IF CONTACT INFORMATION IS NOT KNOWN, CONTACT YOUR FDH POINT OF CONTACT (POC).
5. REFER TO CCR-01 : CONTRACTOR CLOSEOUT REQUIREMENTS FOR FURTHER DETAILS AND REQUIREMENTS.

PCI INSPECTOR

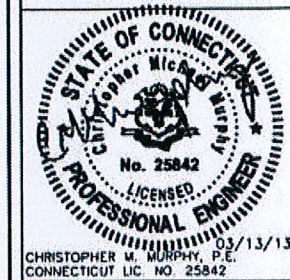
1. THE PCI INSPECTOR IS REQUIRED TO CONTACT THE GC AS SOON AS RECEIVING A PO FOR THE PCI TO, AT A MINIMUM:
 - REVIEW THE REQUIREMENTS OF THE PCI CHECKLIST
 - WORK WITH THE GC TO DEVELOP A SCHEDULE TO CONDUCT ON-SITE INSPECTIONS, INCLUDING FOUNDATION INSPECTIONS
2. THE PCI INSPECTOR IS RESPONSIBLE FOR COLLECTING ALL GENERAL CONTRACTOR (GC) INSPECTION AND TEST REPORTS, REVIEWING THE DOCUMENTS FOR ADHERENCE TO THE CONTRACT DOCUMENTS, CONDUCTING THE IN-FIELD INSPECTIONS, AND SUBMITTING THE PCI REPORT TO FDH.

CORRECTION OF FAILING PCI'S

1. IF THE MODIFICATION INSTALLATION WOULD FAIL THE PCI ('FAILED PCI'), THE GC SHALL WORK WITH FDH TO COORDINATE A REMEDIATION PLAN IN ONE OF TWO WAYS:
 - CORRECT FAILING ISSUES TO COMPLY WITH THE SPECIFICATIONS CONTAINED IN THE ORIGINAL CONTRACT DOCUMENTS AND COORDINATE A SUPPLEMENT PCI.
 - OR, WITH FDH'S APPROVAL, THE GC MAY WORK WITH THE EOR TO RE-ANALYZE THE MODIFICATION/REINFORCEMENT USING THE AS-BUILT CONDITION.

REQUIRED PHOTOS

1. BETWEEN THE GC AND THE PCI INSPECTOR THE FOLLOWING PHOTOGRAPHS, AT A MINIMUM, ARE TO BE TAKEN AND INCLUDED IN THE PCI REPORT:
 - PRE-CONSTRUCTION GENERAL SITE CONDITION
 - PHOTOGRAPHS DURING THE REINFORCEMENT MODIFICATION CONSTRUCTION/ERECTION AND INSPECTION
 - RAW MATERIALS
 - PHOTOS OF ALL CRITICAL DETAILS
 - WELD PREPARATION
 - BOLT INSTALLATION AND TORQUE
 - FINAL INSTALLED CONDITION
 - SURFACE COATING REPAIR
 - POST CONSTRUCTION PHOTOGRAPHS
 - FINAL INFIELD CONDITION
2. PHOTOS OF ELEVATED MODIFICATIONS TAKEN FROM THE GROUND SHALL BE CONSIDERED INADEQUATE.



DRAWN BY: OP
CHECKED BY: JCH
ENG APP'D: CMM
PROJECT NO: 12-01571E S4

SUBMITTALS		
DATE	DESCRIPTION	REV
01/31/13	PRELIMINARY/REVIEW	A
03/13/13	CONSTRUCTION	1

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SITE NAME:
DANIELSON

SITE NUMBER:
CT00302-S

SITE ADDRESS:
**246 EAST FRANKLIN STREET
DANIELSON, CT 06239**

SHEET TITLE
**POST CONSTRUCTION
INSPECTION NOTES**

SHEET NUMBER
N-1

Bryce Pate

GENERAL NOTES:

1. ALL WORK SHALL BE DONE IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL CODES AND ORDINANCES. IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN ALL PERMITS NECESSARY TO COMPLETE THE PROJECT AND ABIDE BY ALL CONDITIONS AND REQUIREMENTS OF THE PERMITS.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF ALL DIMENSIONS, ELEVATIONS AND EXISTING CONDITIONS AT THE SITE BEFORE ORDERING ANY MATERIALS OR DOING ANY WORK. NO EXTRA CHARGE OR COMPENSATION SHALL BE ALLOWED DUE TO DIFFERENCE BETWEEN ACTUAL DIMENSIONS AND DIMENSIONS INDICATED ON THE CONSTRUCTION DRAWINGS. ANY SUCH DISCREPANCY IN DIMENSION WHICH MAY BE FOUND SHALL BE SUBMITTED TO FDH ENGINEERING FOR CONSIDERATION BEFORE THE CONTRACTOR PROCEEDS WITH THE WORK IN THE AFFECTED AREAS.
3. INCORRECTLY FABRICATED, DAMAGED, OTHERWISE MISFITTING, OR NON-CONFORMING MATERIALS AND CONDITIONS SHALL BE REPORTED TO FDH ENGINEERING PRIOR TO ANY REMEDIAL OR CORRECTIVE ACTION. ALL ACTIONS SHALL REQUIRE FDH ENGINEERING APPROVAL.
4. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO DETERMINE ERECTION PROCEDURE AND SEQUENCE TO ENSURE THE SAFETY OF THE STRUCTURE AND ITS COMPONENT PARTS DURING ERECTION AND/OR FIELD MODIFICATIONS. THIS INCLUDES, BUT IS NOT LIMITED TO, THE ADDITION OF TEMPORARY BRACING, GUYS OR TIE DOWNS THAT MAY BE NECESSARY. SUCH MATERIAL SHALL BE REMOVED AFTER THE COMPLETION OF THE PROJECT.
5. CONTRACTOR SHALL PROMPTLY REMOVE ANY & ALL DEBRIS FROM SITE AND RESTORE AS BEST AS POSSIBLE TO PRECONSTRUCTION CONDITION.

CONTRACTOR QUALIFICATION NOTES:

1. ALL REPAIRS SHALL BE PERFORMED BY A TOWER CONTRACTOR WITH A MINIMUM 5 YEARS EXPERIENCE IN TOWER ERECTION AND RETROFIT AND WITH WORKING KNOWLEDGE OF THE TIA/EIA 222-F "STRUCTURAL STANDARD FOR STEEL ANTENNA TOWERS AND ANTENNA SUPPORTING STRUCTURES".
2. CONTRACTOR IS RESPONSIBLE FOR ALL CONSTRUCTION MEANS AND METHODS. SHOULD THE CONTRACTOR REQUIRE DIRECT CONSULTATION, FDH ENGINEERING, INC. IS WILLING TO OFFER SERVICES BASED UPON AN AGREED FEE FOR THE WORK REQUIRED.
3. ALL SUBMITTAL INFORMATION MUST BE SENT TO FDH ENGINEERING, INC. 6521 MERIDEN DRIVE, RALEIGH NC, 27616, TEL. (919) 755-1012, FAX. (919) 755-1031, E-MAIL INFO@FDH-INC.COM. ANY VARIATION OF THESE SPECIFICATIONS OR DRAWINGS WITHOUT CONSENT FROM FDH ENGINEERING, INC. WILL VOID ANY RESPONSIBILITY OR LIABILITY FOR DAMAGE (MATERIAL OR PHYSICAL) TOWARDS FDH ENGINEERING, INC.

JOB SITE SAFETY & NOTES:

1. NEITHER THE PROFESSIONAL ACTIVITIES OF FDH ENGINEERING, INC. NOR THE PRESENCE OF FDH ENGINEERING, INC. OR EMPLOYEES AND SUB-CONSULTANTS AT THE CONSTRUCTION SITE, SHALL RELIEVE THE GENERAL CONTRACTOR AND OR SUBCONTRACTORS AND ANY OTHER ENTITY OF THEIR OBLIGATIONS, DUTIES AND RESPONSIBILITIES INCLUDING, BUT NOT LIMITED TO, CONSTRUCTION MEANS, METHODS, SEQUENCE, TECHNIQUES OR PROCEDURES NECESSARY FOR PERFORMING, SUPERINTENDING OR COORDINATING ALL PORTIONS OF THE WORK OF CONSTRUCTION IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND ANY HEALTH OR SAFETY PRECAUTIONS REQUIRED BY ANY REGULATORY AGENCIES. THE GENERAL CONTRACTOR AND OR SUBCONTRACTOR IS SOLELY RESPONSIBLE FOR JOB SAFETY, AND WARRANTS THAT THIS INTENT IS EVIDENT BY ACCEPTING THIS WORK.

SUBSTITUTES AND/OR EQUALS:

1. IF CONTRACTOR WISHES TO FURNISH OR USE A SUBSTITUTE ITEM OF MATERIAL OR EQUIPMENT, CONTRACTOR SHALL FIRST MAKE WRITTEN APPLICATION TO ENGINEER OF RECORD FOR ACCEPTANCE THEREOF, CERTIFYING THAT THE PROPOSED SUBSTITUTE WILL PERFORM ADEQUATELY THE FUNCTIONS AND ACHIEVE THE RESULTS CALLED FOR BY THE GENERAL DESIGN, BE SIMILAR IN SUBSTANCE TO THAT SPECIFIED AND SUITED TO THE SAME USE AS THAT SPECIFIED. ALL VARIATIONS OF THE PROPOSED SUBSTITUTE FROM THAT SPECIFIED WILL BE IDENTIFIED IN THE APPLICATION AND AVAILABLE MAINTENANCE, REPAIR AND REPLACEMENT SERVICE WILL BE INDICATED. THE APPLICATION WILL ALSO CONTAIN AN ITEMIZED ESTIMATE OF ALL COSTS OR CREDITS THAT WILL RESULT DIRECTLY OR INDIRECTLY FROM ACCEPTANCE OF SUCH SUBSTITUTE INCLUDING COSTS OF REDESIGN AND CLAIMS OF OTHER CONTRACTORS AFFECTED BY THE RESULTING CHANGE, ALL OF WHICH WILL BE CONSIDERED BY ENGINEER OF RECORD IN EVALUATION OF THE PROPOSED SUBSTITUTE. ENGINEER OF RECORD MAY REQUIRE CONTRACTOR TO FURNISH ADDITIONAL DATA ABOUT THE PROPOSED SUBSTITUTE.

STEEL:

1. ALL STRUCTURAL STEEL SHALL BE FABRICATED AND ERECTED IN ACCORDANCE WITH THE LATEST AISC CODE AND ASTM SPECIFICATIONS.
*ALL PLATE STEEL SHALL BE ASTM A572-85 (Fy=65 KSI) UNLESS OTHERWISE SPECIFIED.
2. ALL CONNECTIONS OF STRUCTURAL STEEL MEMBERS SHALL BE MADE USING SPECIFIED WELDS WITH WELDING ELECTRODES E-60XX OR SPECIFIED HIGH STRENGTH BOLTS TO BE ASTM A325M, THREAD INCLUDED WITH SHEAR PLANE (UNLESS OTHERWISE NOTED).
3. ALL BOLTED CONNECTIONS TO BE INSTALLED TO A SNUG-TIGHTENED CONDITION IN ACCORDANCE WITH AISC 13 PART 18.2, "SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS", SECTION B.1, UNLESS OTHERWISE SPECIFIED. WHEN "X" TYPE BOLTS ARE USED, CONTRACTOR MAY BE REQUIRED TO STACK ADDITIONAL WASHERS TO OBTAIN PROPER SNUG TIGHT INSTALLATION. ALL NUTS SHALL BE HEAVY HEX UNLESS OTHERWISE NOTED.
4. ALL STEEL AFTER FABRICATION SHALL BE HOT DIPPED GALVANIZED PER ASTM A-123. ALL DAMAGED SURFACES, WELDED AREAS AND AUTHORIZED NON-GALVANIZED MEMBERS OR PARTS (EXISTING OR NEW) SHALL BE PAINTED WITH MULTIPLE COATS OF ZRC COLD GALVANIZING COMPOUND ACHIEVING A MINIMUM OF 4 MILS DRY FILM PER ASTM A 780.
5. ALL SHOP AND FIELD WELDING SHALL BE DONE BY WELDERS QUALIFIED AS DESCRIBED IN THE "AMERICAN WELDING SOCIETY'S STANDARD QUALIFICATION PROCEDURE" TO PERFORM THE TYPE OF WORK REQUIRED. CONTRACTOR IS REQUIRED TO PROVIDE FDH ENGINEERING, INC. WITH A PASSING CERTIFIED WELDING INSPECTION FOR ALL WELDS.
6. STRUCTURAL STEEL MAY NOT BE TORCH CUT FOR FABRICATION. ALL STEEL FABRICATION MUST FOLLOW AISC STANDARDS.

MISC. NOTES:

1. ALL MODIFICATIONS ARE ASSUMED TO BE MADE ON AN EMPTY TOWER. CONTRACTOR IS RESPONSIBLE TO MAKE PROVISIONS TO SUPPORT OR WORK AROUND EXISTING ANTENNAS AND TRANSMISSION LINES. MODIFICATIONS MUST BE CONTINUOUS THROUGH ALL AREAS SHOWN.
2. CONTRACTOR FIELD VERIFY ALL DIMENSIONS PRIOR TO CONSTRUCTION.

FABRICATION NOTES:

1. ALL DIMENSIONS ARE PRELIMINARY UNTIL FIELD VERIFIED BY CONTRACTOR. ANY CHANGES MUST BE APPROVED BY ENGINEER OF RECORD IN WRITING PRIOR TO FABRICATION AND INSTALLATION.
2. NEW STEEL MEMBERS MUST HAVE SINGLE DRILLED HOLES. SLOTTED AND DOUBLE DRILLED HOLES ARE NOT ACCEPTABLE MEANS OF FABRICATION.


SURFACE PREPARATION:

1. PREPARE SURFACE TO BE WELDED BY REMOVING PAINT OR GALVANIZATION TO BARE METAL USING POWER WIRE BRUSHING IN ACCORDANCE WITH SSPC-SP11, (STEEL STRUCTURES PAINTING COUNCIL). FOLLOWING POWER WIRE BRUSHING CONTRACTOR SHALL POLISH METAL SURFACE WITH HIGH SPEED GRINDER WITH 400+ GRIT SANDPAPER.
2. AFTER NEW STEEL INSTALLATION CONTRACTOR TO BRUSH PAINT (2) COATS OF ZRC OR ZINGA COLD GALVANIZATION COMPOUND PER MANUFACTURER'S SPECIFICATIONS.

WELDING NOTES:

1. ALL WELDING TO THE EXISTING TOWER SHALL BE PERFORMED BY CERTIFIED WELDERS UTILIZING PROCEDURES QUALIFIED IN ACCORDANCE WITH AWS D1.1 AND AWS C5.4.
2. CONTRACTOR SHALL COMPLY WITH AWS D1.1 FOR PROCEDURES, APPEARANCE AND QUALITY OF WELDS AND FOR METHODS USED IN CORRECTING WELDING. ALL WELDERS AND WELDING PROCESSES SHALL BE QUALIFIED IN ACCORDANCE WITH AWS "STANDARD QUALIFICATION PROCEDURES". CONTRACTOR SHALL SUBMIT CERTIFICATION OF WELDERS TO THE ENGINEER PRIOR TO COMMENCEMENT OF THE WORK.
3. CONTRACTOR RESPONSIBLE FOR TEMPORARY HEAT SHIELDING AS REQUIRED DURING WELDING.
4. CONTRACTOR RESPONSIBLE FOR VIEWING EXISTING TOWER FOR LOOSE AND FLAMMABLE MATERIAL PRIOR TO WELDING FLAT PLATE.
5. ALL WELDS TO BE VISUALLY INSPECTED BY A CERTIFIED WELD INSPECTOR PER AWS D1.1.


PREPARED BY:



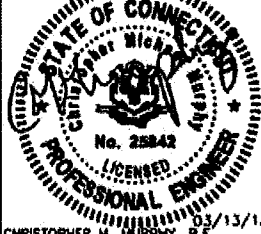
4021 MERIDEN DRIVE
RALEIGH, NC 27616
PHONE: 919-755-1012
FAX: 919-755-1031

ENGINEERING INNOVATION

PREPARED FOR:



3600 BROKEN SOUND PARKWAY, NW
BOCA RATON, FL 33487
(800) 487-9176



03/13/13
CHRISTOPHER M. MURPHY, P.E.
CONNECTICUT LIC. NO. 25842

DRAWN BY: OP
CHECKED BY: JCH
ENG APP'D: CMM
PROJECT NO: 12-01571E S4

SUBMITTALS		
DATE	DESCRIPTION	REV
01/23/13	PRELIMINARY/REVIEW	A
03/13/13	CONSTRUCTION	1

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SITE NAME:
DANIELSON

SITE NUMBER:
CTD0302-S

SITE ADDRESS:
**246 EAST FRANKLIN STREET
DANIELSON, CT 06239**

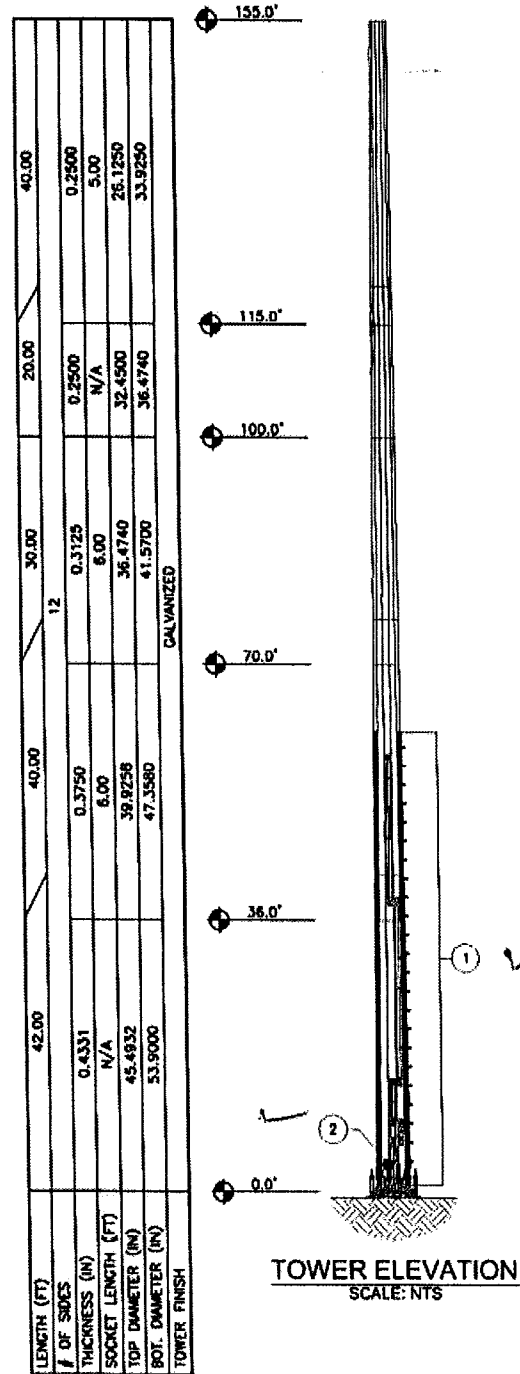
SHEET TITLE
GENERAL NOTES

SHEET NUMBER
N-2

Buque Patel

- APPURTENANCES MAY INTERFERE WITH PROPOSED MODIFICATIONS.
- ALL MODIFICATIONS TO BE INSTALLED CONTINUOUSLY THROUGH EXISTING EQUIPMENT. ALL EXISTING EQUIPMENT NOT TO BE DAMAGED OR TAKEN OFF AIR DURING INSTALLATION.
- ANTENNA GRAPHICS NOT SHOWN FOR CLARITY. SEE STRUCTURAL ANALYSIS REPORT FOR EXISTING ANTENNA LOADING.

TOWER MODIFICATION SCHEDULE			
NO.	TYPE OF MODIFICATION	BOTTOM ELEV. (FT)	TOP ELEV. (FT)
1	INSTALLATION OF NEW FLAT PLATE REINFORCEMENT. SEE S-2 THROUGH S-4 FOR DETAILS.	1.0±	81.0±
2	INSTALLATION OF NEW BASE PLATE STIFFENER EXTENSIONS. SEE S-5 FOR DETAILS.	1.5±	3.7±



✓ x LOCATIONS CORRECT.

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STATE OF CONNECTICUT
 Christopher M. Murphy, P.E.
 No. 25842
 LICENSED PROFESSIONAL ENGINEER
 03/13/13
 CHRISTOPHER M. MURPHY, P.E.
 CONNECTICUT LIC NO. 25842

DRAWN BY: OP
 CHECKED BY: JCH
 ENG APP'D: CMM
 PROJECT NO: 12-01571E 54

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SITE NAME:
DANIELSON

SITE NUMBER:
CT00302-S

SITE ADDRESS:
248 EAST FRANKLIN STREET
DANIELSON, CT 06239

SHEET TITLE
MODIFICATION
SCHEDULE

SHEET NUMBER
S-1

Bryce Pate

- CONTRACTOR TO CUT OFF EXISTING STEP PEGS ON FLAT 11 ONLY, AND TO GRIND SMOOTH. SEE SURFACE PREPARATION NOTES ON SHEET N-2.
- CONTRACTOR TO INSTALL NEW STEP PEGS SUCH THAT THEY ALTERNATE WITH EXISTING STEP PEGS ON FLAT 2 VERY 15'.

FLAT PLATE INSTALLATION SCHEDULE			
PART #	QTY.	DESCRIPTION	ELEVATION
MK-1	3	FLAT PLATE REINFORCEMENT	41'-0"± TO 61'-0"±
MK-2	3	FLAT PLATE REINFORCEMENT	21'-0"± TO 41'-0"±
MK-3	3	FLAT PLATE REINFORCEMENT	1'-0"± TO 21'-0"±
MK-4	23*	STEP BOLT TAB	VARIES
-	180	20MM AJAX BOLTS	VARIES
-	23*	3/4"x7" STEP BOLTS W/ LOCK WASHERS	VARIES

ALL NEW FLAT PLATE STEEL TO HAVE Fy=65 KSI

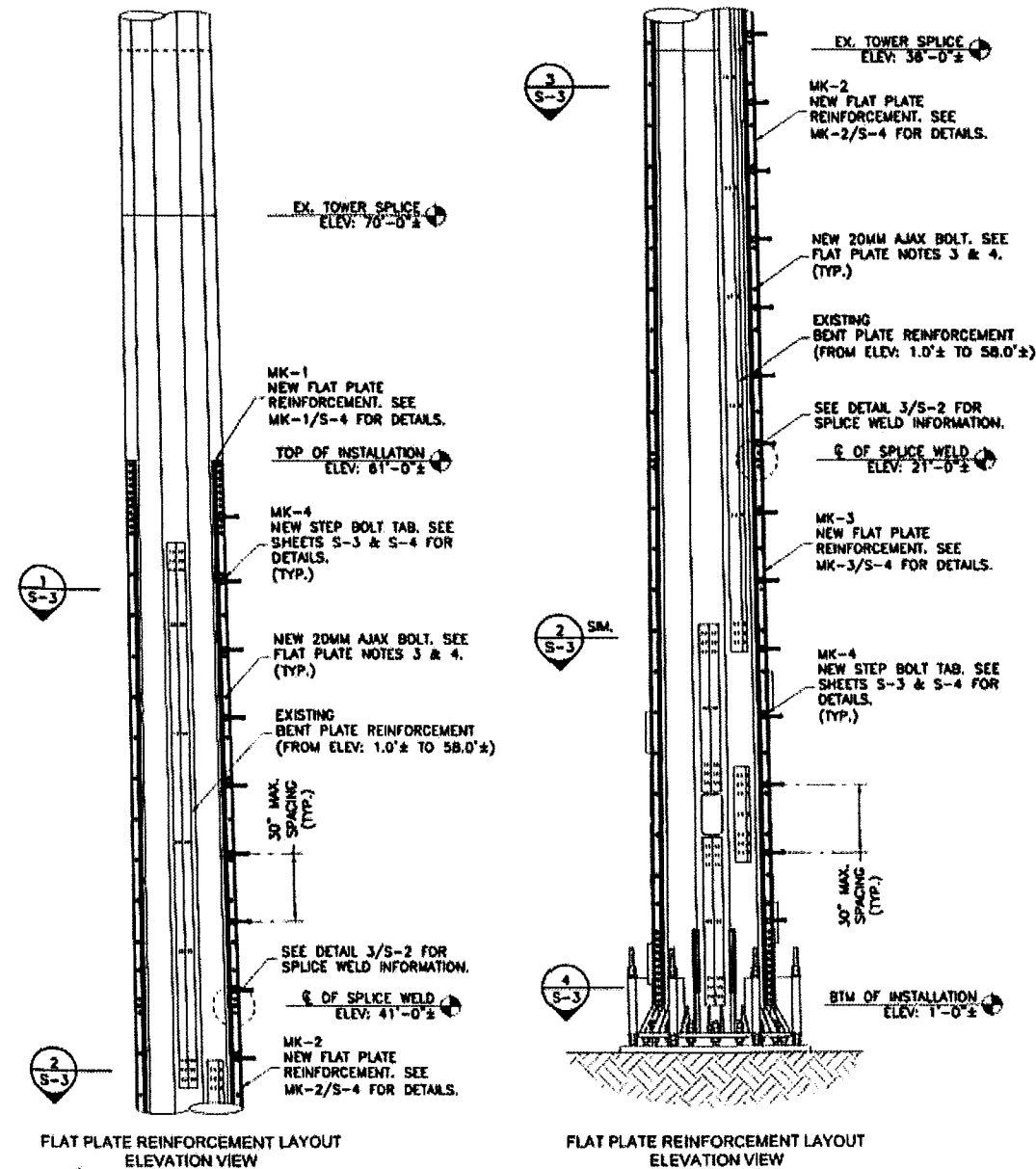
*NOTE: (1) NEW FLAT PLATE INSTALLATIONS AT EACH ELEVATION WILL REQUIRE THE INSTALLATION OF STEP BOLTS & STEP BOLT TABS.

NEW FLAT PLATE REINFORCEMENT NOTES:

- CONTRACTOR TO FIELD VERIFY PROPOSED LOCATION OF FLAT PLATE TO ENSURE THAT PROPER SPACING CAN BE MET.
- CONTRACTOR TO REPLACE AND/OR RELOCATE ANY CLIMBING PEGS THAT INTERFERE WITH THE INSTALLATION OF FLAT PLATE.
- ALL AJAX CONNECTIONS TO USE HIGH TENSILE SLEEVE PROVIDED BY MANUFACTURER. AJAX BOLT ASSEMBLY TO BE INSTALLED PER MANUFACTURER SPECIFICATIONS. SEE AJAX BOLT ASSEMBLY DETAIL 4/S-2.
- ALL SHEAR SLEEVES TO BE HOT DIPPED GALVANIZED PRIOR TO INSTALLATION.
- NEW FLAT PLATES TO BE INSTALLED ON THE CENTER OF THE PROPOSED SIDE UNLESS OTHERWISE NOTED.

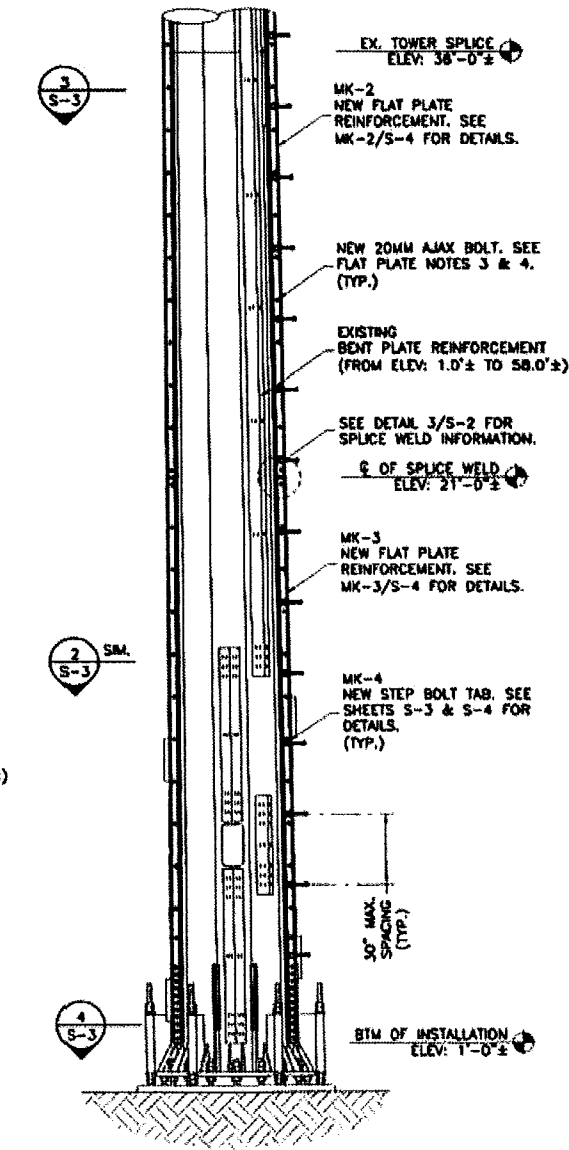
CONSTRUCTION NOTES:

- CONTRACTOR TO FIELD VERIFY PROPOSED FLAT PLATE LAYOUT PRIOR TO CONSTRUCTION. IF ISSUES ARE PRESENT IN THE FIT OF THE FLAT PLATE, CONTRACTOR TO CONTACT ENGINEER OF RECORD OR FDH ENGINEERING PROJECT MANAGER PRIOR TO PROCEEDING WITH PROPOSED MODIFICATION OR FABRICATION.



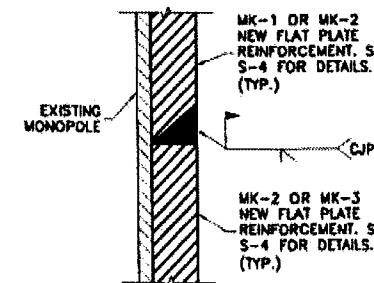
FLAT PLATE REINFORCEMENT LAYOUT ELEVATION VIEW

1 ELEVATION S-2 SCALE: 3/16" = 1'-0"



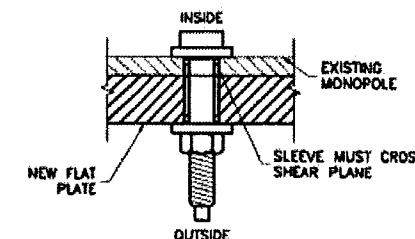
FLAT PLATE REINFORCEMENT LAYOUT ELEVATION VIEW

2 ELEVATION S-2 SCALE: 3/16" = 1'-0"



SPLICE WELD ELEVATION VIEW

3 SECTION S-2 NTS



AJAX BOLT ASSEMBLY PLAN VIEW

4 DETAIL S-2 NTS

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STATE OF CONNECTICUT
 PROFESSIONAL ENGINEER
 No. 25842
 LICENSED
 02/13/13
 CHRISTOPHER M. MURPHY, P.E.
 CONNECTICUT LIC. NO. 25842

DRAWN BY: JCP
 CHECKED BY: JCH
 ENG APP'D: CMW
 PROJECT NO: 12-01571E S4

SUBMITTALS		
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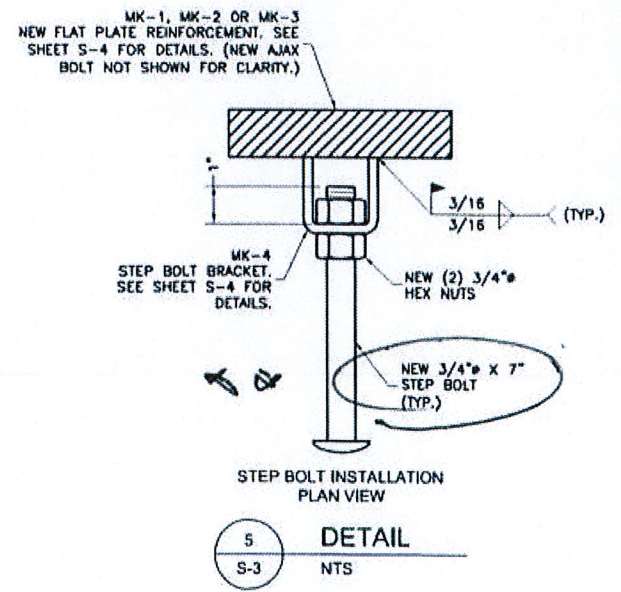
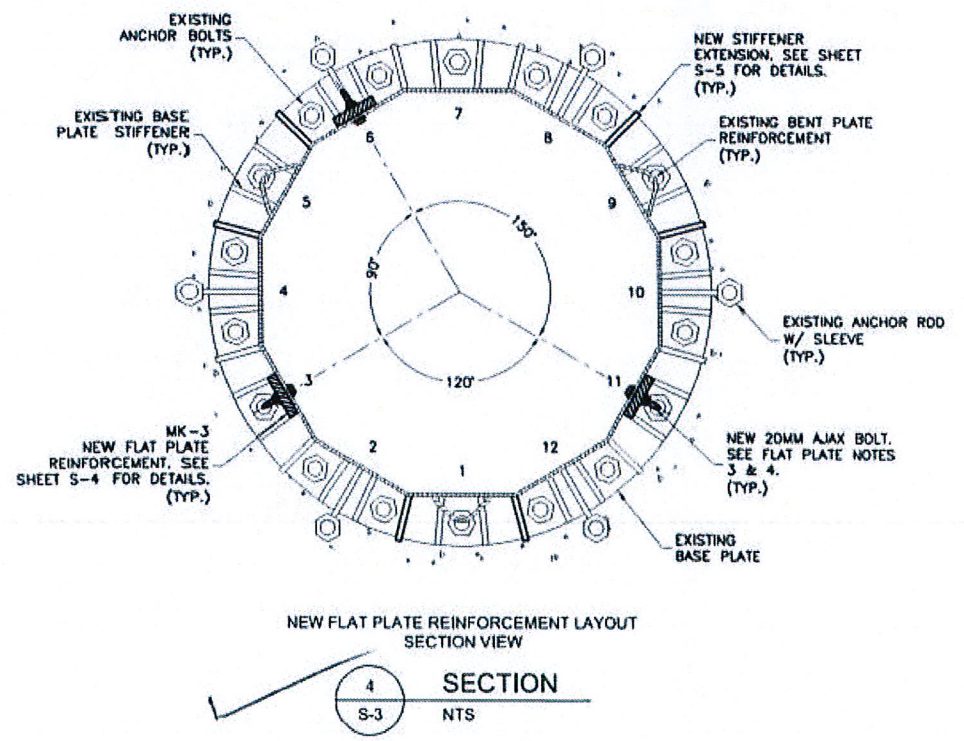
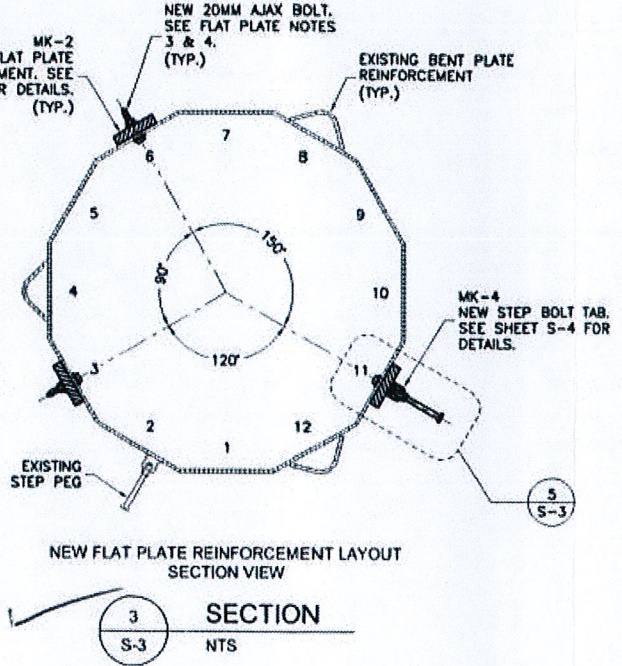
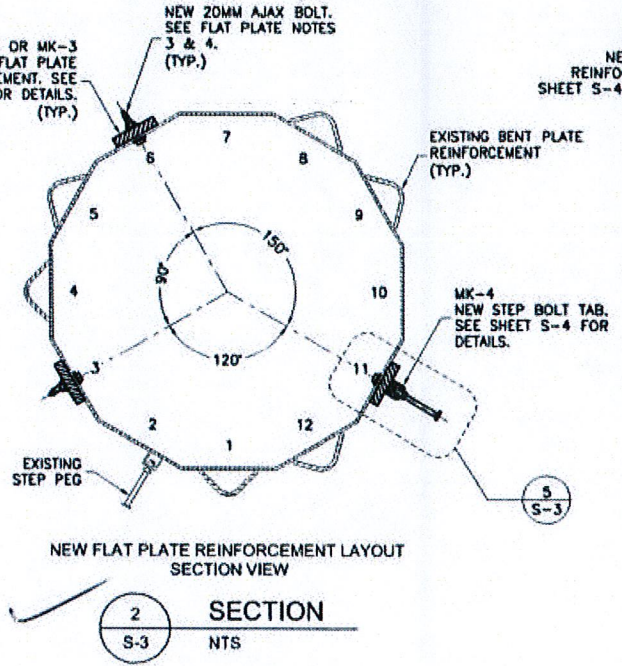
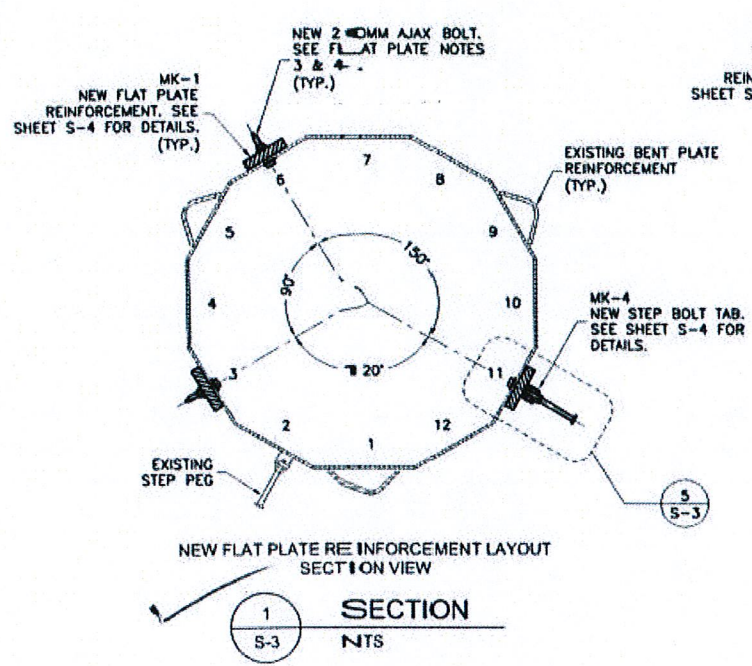
SITE NUMBER:
CT00302-S

SITE ADDRESS:
 246 EAST FRANKLIN STREET
 DANIELSON, CT 06239

SHEET TITLE:
 FLAT PLATE REINFORCEMENT DETAILS I

SHEET NUMBER:
S-2

Brace Plate



PREPARED BY:
FDH 4525 WICHAMEN DRIVE
 RALEIGH, NC 27618
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 FAX: 919-755-1031
 ENGINEERING INNOVATION

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STATE OF CONNECTICUT
 PROFESSIONAL ENGINEER
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 LICENSED
 03/13/13
 CHRISTOPHER M. MURPHY, P.E.
 CONNECTICUT LIC. NO. 25842

DRAWN BY: DP
 CHECKED BY: JCH
 ENG. APP'D: CMM
 PROJECT NO: 12-01571E S4

SUBMITTALS		
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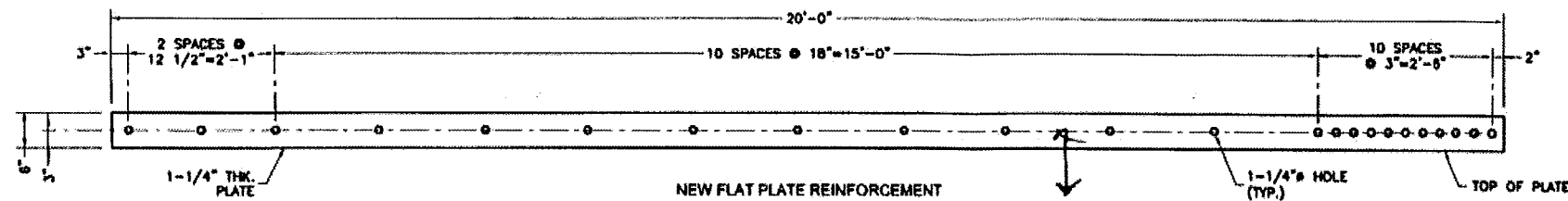
SITE ADDRESS:
 246 EAST FRANKLIN STREET
 DANIELSON, CT 06239

SHEET TITLE
 FLAT PLATE REINFORCEMENT
 DETAILS II

SHEET NUMBER
 S-3

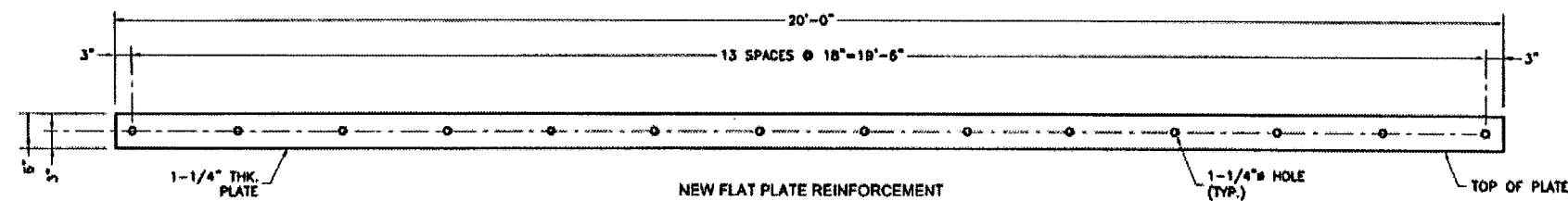
x & climbing PAGES ARE 6'-5" / NOT 7' AS PLANS SHOW.

Brief Parts

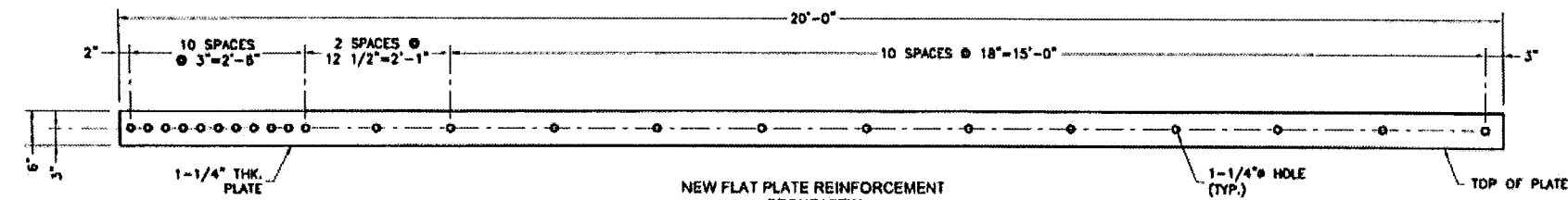


✓ MK-1
S-4
NEW FLAT PLATE REINFORCEMENT
FRONT VIEW
SCALE: 1/2" = 1'-0"

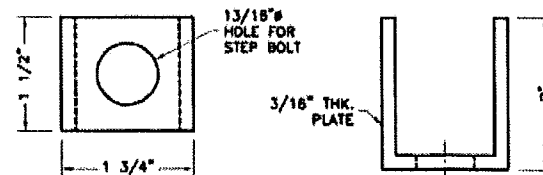
Minor Rust & SMALL AREA OF CORROSION FOUND.



✓ MK-2
S-4
NEW FLAT PLATE REINFORCEMENT
FRONT VIEW
SCALE: 1/2" = 1'-0"



✓ MK-3
S-4
NEW FLAT PLATE REINFORCEMENT
FRONT VIEW
SCALE: 1/2" = 1'-0"



✓ MK-4
S-4
NEW FLAT PLATE REINFORCEMENT
FRONT VIEW
SCALE: 1/2" = 1'-0"

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ENGINEERING INNOVATION

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STATE OF CONNECTICUT
No. 25842
LICENSED PROFESSIONAL ENGINEER
CHRISTOPHER M. MURPHY, P.E.
CONNECTICUT LIC. NO. 25842

DRAWN BY: OP
CHECKED BY: JCH
ENG APP'D: CMM
PROJECT NO: 12-01571E S4

SUBMITTALS		
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SITE NUMBER:
CT00302-S

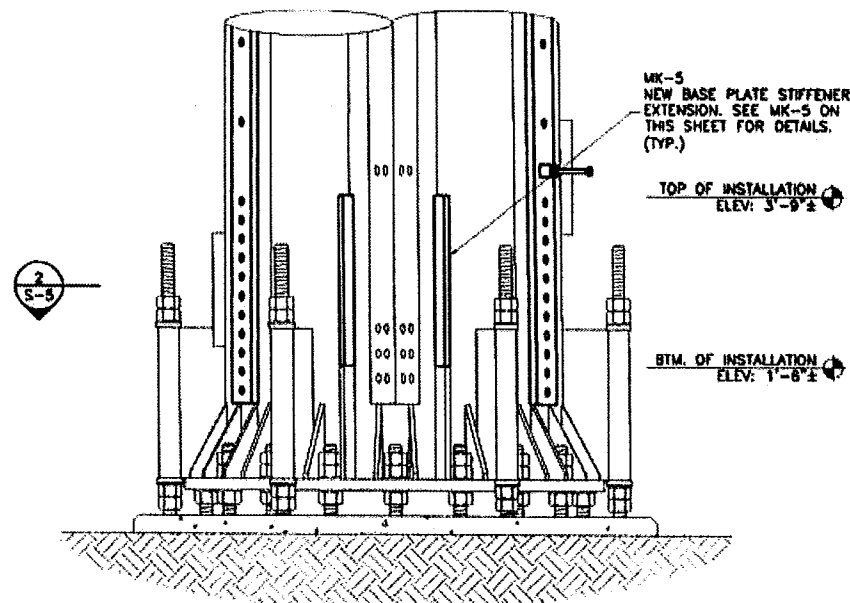
SITE ADDRESS:
248 EAST FRANKLIN STREET
DANIELSON, CT 06239

SHEET TITLE
FLAT PLATE REINFORCEMENT
DETAILS III

SHEET NUMBER
S-4

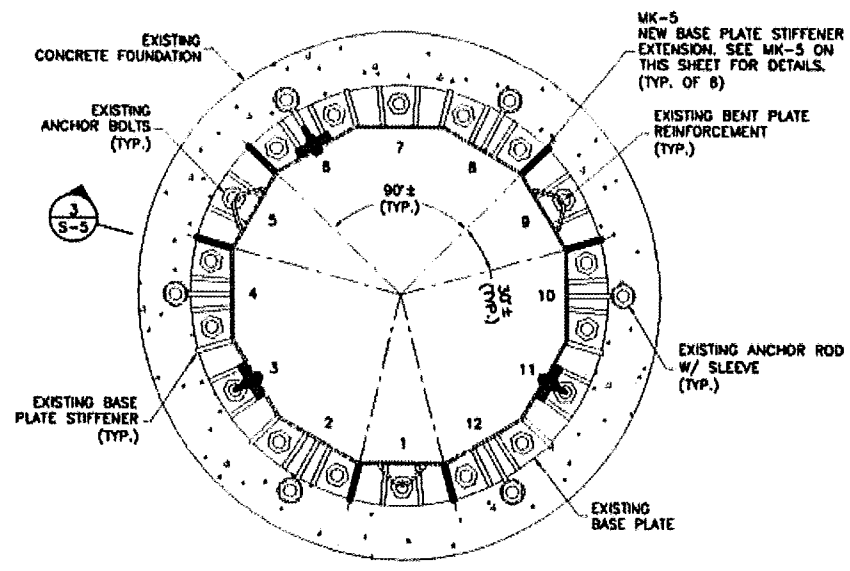
✗ CONTRACTOR LEFT SKULLD PUNCHES STRAL FROM INSTALLING FLAT PLATE & AJAX BOLTS INSIDE THE MONOPOLIS.

Base Plate



BASE PLATE STIFFENER EXTENSION LAYOUT ELEVATION VIEW

1 ELEVATION
S-5 SCALE: 1/2" = 1'-0"



BASE PLATE STIFFENER EXTENSION LAYOUT PLAN VIEW

2 SECTION
S-5 SCALE: 1/2" = 1'-0"

BASE PLATE STIFFENER EXTENSION SCHEDULE

PART. NO	QUANTITY	DESCRIPTION	ELEVATION
MK-5	6	BASE PLATE STIFFENER EXTENSION	1'-8 1/2" TO 3'-9 1/2"

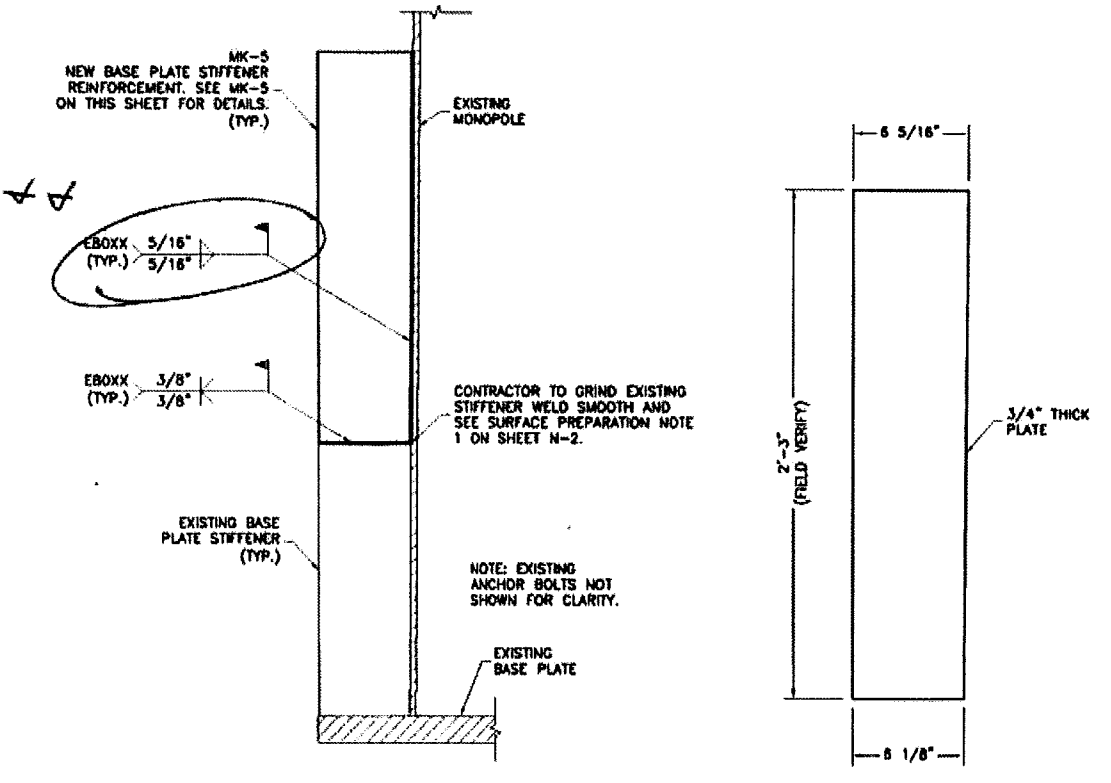
ALL NEW BASE PLATE STIFFENER EXTENSION STEEL TO HAVE Fy=85 KSI

NEW BASE PLATE STIFFENER EXTENSION NOTES:

- CONTRACTOR TO FIELD VERIFY PROPOSED LOCATION OF BASE PLATE STIFFENER TO ENSURE THAT PROPER SPACING CAN BE MET.
- CONTRACTOR TO REPLACE AND/OR RELOCATE ANY CLIMBING PEGS THAT INTERFERE WITH THE INSTALLATION OF BASE PLATE STIFFENER.

CONSTRUCTION NOTES:

- CONTRACTOR TO FIELD VERIFY PROPOSED BASE PLATE STIFFENER LAYOUT PRIOR TO CONSTRUCTION. IF ISSUES ARE PRESENT IN THE FIT OF THE BASE PLATE STIFFENER, CONTRACTOR TO CONTACT ENGINEER OF RECORD OR FDH ENGINEERING PROJECT MANAGER PRIOR TO PROCEEDING WITH PROPOSED MODIFICATION OR FABRICATION.
- CONTRACTOR TO ENSURE STIFFENERS EXTEND ABOVE THE LAST FLAT PLATE TERM BOLT. FIELD VERIFY DIMENSION.



BASE PLATE STIFFENER EXTENSION WELD DETAIL FRONT VIEW

3 DETAIL
S-5 NTS

BASE PLATE STIFFENER EXTENSION FRONT VIEW

MK-5 DETAIL
S-5 SCALE: 1-1/2" = 1'-0"

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ENGINEERING INNOVATION

PREPARED FOR:

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STATE OF CONNECTICUT

Professional Engineer

No. 25842

CHRISTOPHER M. MURPHY, P.E.
CONNECTICUT LIC. NO. 25842

DRAWN BY: OP
CHECKED BY: JCH
ENG APP'D: CMM
PROJECT NO: 12-01371E 54

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**246 EAST FRANKLIN STREET
DANIELSON, CT 06239**

SHEET TITLE
**BASE PLATE STIFFENER
EXTENSION DETAILS**

SHEET NUMBER
S-5

xx FOUR AREAS OF WELDS WHERE IT DOESN'T QUITE COME OUT 5/16". MOST ARE GOOD.