

September 9, 2015

Mark Luther Regional Site Manager SBA Network Services 120 South White Cedar Drive. Milton, DE 19968

Subject: Modification Inspection

SBA Designation: SBA Site Number: CT01499-S-00

SBA Site Name: Torrington Carrier: AT&T

Inspection Firm Designation: FDH Velocitel Project Number: 15BHCA1700

Site Data: 1925-1931 East Main Street, Torrington, CT 06790

Latitude: 41.8230° Longitude: -73.0772°

153' Monopole Tower

Velocitel, Inc., d.b.a. FDH Velocitel is pleased to submit this "Modification Inspection" (MI Report) to SBA Network Services for the modification/reinforcement to the subject structure. This Modification Inspection (MI) was performed as a review of the General Contractor supplied closeout documents. The purpose of this MI is to document that the modification installation is in accordance with the contract document(s) listed in Table 2. The MI is not a review of the adequacy or effectiveness of the modification solution.

Table 1 - General Information

	Company	Contact
MI Inspector	FDH Velocitel	Paul Drumheller, El 919-755-1012
Independent	EOR	Turnkey
Modification Design EOR	FDH Engineering, Inc.	Dennis D. Abel, PE 919-755-1012
General Contractor	Patriot Towers, Inc.	Douglas Harradine 585-889-3391
Sub to the General Contractor	NA	NA
Field CWI for the General Contractor	NA	NA
Field NDE for the General Contractor	NA	NA

Table 2 - Design Documents

Document(s)	Remarks	Source
Tower Modification Drawings	FDH Engineering Project No. 15BFJD1400 Dated 3-10-15	FDH Velocitel

Based on our review, FDH Velocitel determines this project:

X_PASSING MI

The configuration, materials, and workmanship of the modifications are in accordance with the Contract Documents as per the closeout documentation.

We at FDH Velocitel 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,

Dennis D. Abel, PE Connecticut License No. 23247 No. 23247

No. 23247

Oq-09-1015

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 8 NA 9 NA 10-13 NA NA 14-18
 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 	19-20 NA NA NA NA NA 21 NA 22-29
 POST-CONSTRUCTION MI Inspector Redline/Record Drawings Engineer Approval Post Installed Anchor Rod Pull-out Testing Photographs 	NA NA NA 5-7 (see Table 3)

Modification Inspection (MI) SBA Network Services Torrington (CT01499-S-00) September 9, 2015

CONTRACTOR CLOSEOUT DOCUMENTS

Table 3.0 - Photographs

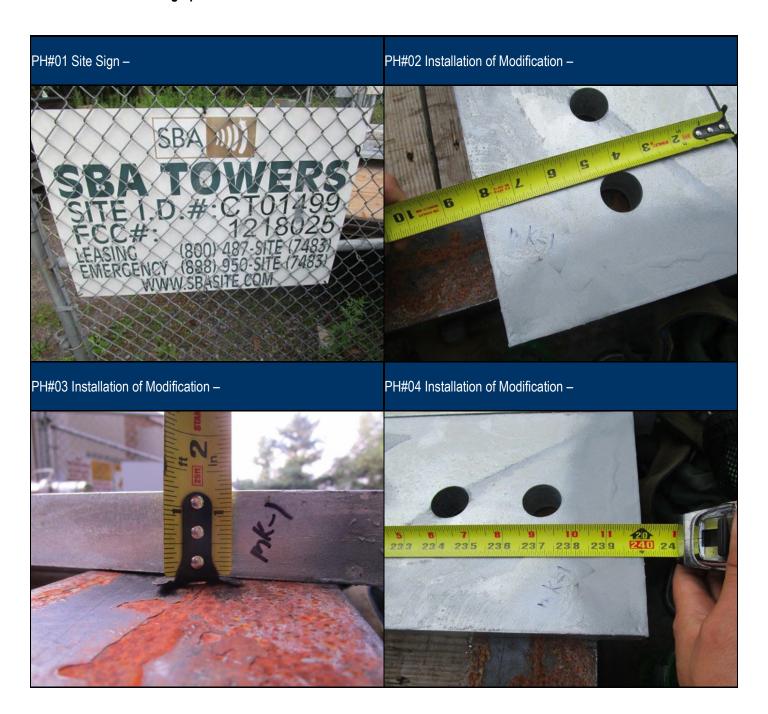


Table 3.1 – Photographs

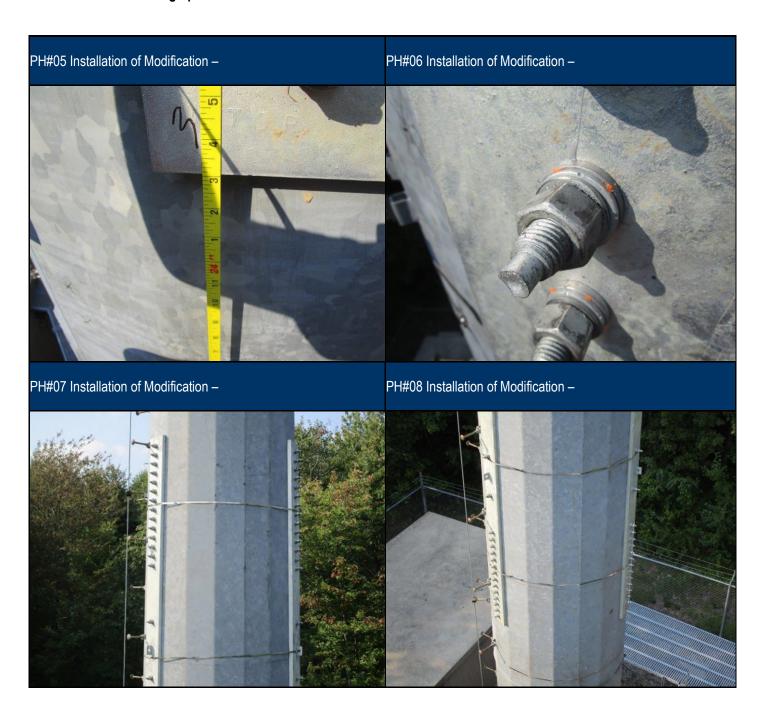


Table 3.2 – Photographs



CONSTRUCTION/INSTALLATION INSPECTIONS AND TESTING REQUIRED	REPORT ITEM
 P	
	RE-CONSTRUCTION
X	MI CHECKLIST DRAWING
N/A	EOR APPROVED SHOP DRAWINGS
X	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 INSPEC	CTIONS:
C	ONSTRUCTION
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
N/A	CONTRACTOR'S CERTIFIED WELD INSPECTION
N/A	EARTHWORK: LIFT AND DENSITY
X	ON SITE COLD GALVANIZING VERIFICATION
N/A	GUY WIRE TENSION REPORT
Χ	GC AS-BUILT DOCUMENTS
ADDITIONAL TESTING AND INSPEC	CTIONS:
P	OST-CONSTRUCTION
X	MI INSPECTOR REDLINE OR RECORD DRAWING(S)
N/A	POST INSTALLED ANCHOR ROD PULL-OUT TESTING
X	PHOTOGRAPHS
ADDITIONAL TESTING AND INSPEC	TIONS:

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

MODIFICATION INSPECTION NOTES:

GENERAL

- THE POST CONSTRUCTION INSPECTION (MI) 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 MI IS TO CONFIRM INSTALLATION CONFIGURATION AND WORKMANSHIP ONLY AND IS NOT A REVIEW OF THE MODIFICATION DESIGN ITSELF, NOR DOES THE MI INSPECTOR TAKE OWNERSHIP OF THE MODIFICATION DESIGN. OWNERSHIP OF THE STRUCTURAL MODIFICATION DESIGN EFFECTIVENESS AND INTEGRITY RESIDES WITH THE EOR AT ALL
- 3. ALL MI'S SHALL BE CONDUCTED BY A MI INSPECTOR THAT IS APPROVED TO PERFORM ELEVATED WORK FOR FDH ENGINEERING, INC.
- 4. TO ENSURE THAT THE REQUIREMENTS OF THE MI ARE MET, IT IS VITAL THAT THE GENERAL CONTRACTOR (GC) AND THE MI 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.

MI INSPECTOR

- 1. THE MI INSPECTOR IS REQUIRED TO CONTACT THE GC AS SOON AS RECEIVING A PO FOR THE MI TO, AT A MINIMUM:

 - REVIEW THE REQUIREMENTS OF THE MI CHECKLIST
 WORK WITH THE GC TO DEVELOP A SCHEDULE TO CONDUCT ON—SITE INSPECTIONS, INCLUDING FOUNDATION INSPECTIONS
- 2. THE MI 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 MI REPORT TO FDH.

CORRECTION OF FAILING MI'S

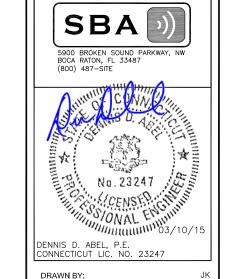
- 1. IF THE MODIFICATION INSTALLATION WOULD FAIL THE MI ("FAILED MI"), THE GC SHALL WORK WITH FDH TO COORDINATE A REMEDIATION PLAN IN ONE OF TWO WAYS:
 - CORRECT FAILING ISSUES TO COMPLY WITH THE SPECIFICATIONS CONTAINED IN THE ORIGINAL CONTRACT DOCUMENTS AND COORDINATE A SUPPLEMENT MI.
 - OR, WITH FDH'S 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 MI INSPECTOR THE FOLLOWING PHOTOGRAPHS, AT A MINIMUM, ARE TO BE TAKEN AND INCLUDED IN THE MI REPORT:
- PRE-CONSTRUCTION GENERAL SITE CONDITION
- PHOTOGRAPHS DURING THE REINFORCEMENT MODIFICATION CONSTRUCTION/ERECTION AND INSPECTION
- •• RAW MATERIALS
- •• PHOTOS OF ALL CRITICAL DETAILS
- •• FOUNDATION MODIFICATIONS
- 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



PREPARED FOR



DRAWN BY: MSG CHECKED BY ENG APPV'D: DDA 15BFJD1400 PROJECT NO

	SUBMITTALS	
DATE	DESCRIPTION	REV
03/10/15	CONSTRUCTION	0

THE INFORMATION CONTAINED IN THIS SET OF DOCUMENTS IS PROPRIETARY BY NATURE. REPRODUCTION OR CAUSING TO BE REPRODUCED THE WHOLE OR ANY PART OF THESE DRAWINGS WITHOUT THE PERMISSION OF FDH ENGINEERING, INC. IS PROHIBITED.

SITE NAME:

TORRINGTON

SITE NUMBER:

CT01499-S-00

SITE ADDRESS:

1925-1931 EAST MAIN STREET TORRINGTON, CT 06790

SHEET TITLE

MODIFICATION INSPECTION NOTES

SHEET NUMBER



SBA 5900 Broken Sound Parkway, NW Boca Raton, FL 33487

DATE: September 1, 2015

RE: Fabrication Inspection Letter for Torrington CT01499-S-00

To Whom It May Concern:

Patriot Towers Inc. completed all fabrication of materials in accordance with industry standards and per structural drawings for site Torrington CT01499-S-00.

Sincerely,

Douglas Harradine, Vice President

Patriot Towers, Inc. 870 Scottsville-Chili Road Scottsville, NY 14546 O- 585-889-3391



Site Name:	Torrington
Site IO:	CT01499-S-00
Proposed Carriery	ATAT
Tower Type:	153' Monopole
Site Address:	1925-1931 East Main Street
	Torrigation CT 06790

Fabricator/Supplier Material Statement Form Number: MTR-01

FDH Ho.:	158HCA1700
Str. Analysis Date:	1/13/15
Drawing Date	3/10/15
Drawing Issue:	Construction
Coordinates:	41.823
	.73 6772

io

Material Siziament

(Notary Stamp or Seal)

This statement certifies that all materials and hardware brearing the above listed descriptions were used in this project/order. The attached "milit test reports" (MTR) are specific to the site tisted above only. The performing subcontractor 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.

	ál injounation						
No.	Material Description	Project Use	Vendor	QTY	Heat No.	3643 8620	ASTM Spec
<u> </u>	Plate 1-1/4" A572	Fabrication	Klein Steel	3	5502672		A572
	Rubber washers	Fabrication	IRA Svendgaard	108			
	M20 squirter washers	Fabrication	IRA Svendgaard	108		who had a been dropped and	Cinque Code Top
	Ajax bolts M20x95mm	Fabrication	IRA Svendgaard	108			
	M20 high tensile sleeve	Fabrication	IRA Svendgaard	5		-	-
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	ALL MTRS LISTED ABOVE MUST	RE INCLUDED WITH THIS STA	TEMENT AND HEAT NO INITI	ALED DO	NOT INCLUDE NON	APPI ICAI	RI E MTRS
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	Pathot Towers, Inc						
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_	Subcontractor Company Name		08-24-15	anto			
_			08-24-15 Date				
_	Subcontractor Company Name Authorized Signature		Date				
_	Subcontractor Company Name Authorized Signature Douglas Harradine		Date Vice President				
	Authorized Signature Douglas Harradine Printed Name		Date	-			
	Subcontractor Company Name Authorized Signature Douglas Harradine		Date Vice President	-			
	Authorized Signature Douglas Harradine Printed Name State Of: New York		Date Vice President	-			
	Authorized Signature Douglas Harradine Printed Name State Of: New York County Of: Monroe	Notice Dublic of Markon	Date Vice President Tide	edife theat F	Janetas Hassalli		
	Authorized Signature Douglas Harradine Printed Name State Of: New York County Of: Monroe		Vice President Title County, NY ce		*		-
	Authorized Signature Douglas Harradine Printed Name State Of: New York County Of: Monroe Jessica Johnson at his day and	acknowledged that he/she is the	Date Vice President Title County, NY ce Vice President (title) of	Patriot To	owers (subco	ontractor), a	
,	Authorized Signature Douglas Harradine Printed Name State Of: New York County Of: Monroe lessica fohnson at this day and S corporation, an	acknowledged that he/she is the das <u>Vice President</u> (Vice President Title County, NY ce Vice President (title) of Juite), being authorized to do so,	Patriot To executed the	owers (subcomers) (subcomers)	ontractor), a	
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l,l	Authorized Signature Douglas Harradine Printed Name State Of: New York County Of: Monroe lessica Johnson at Corporation, an oration. Witness my hand and official states.	acknowledged that he/she is the d as <u>Vice President</u> (I amp or seal, this <u>24th</u>	Vice President Title County, NY ce Vice President (title) of title), being authorized to do so, day ofAugust	Patriot To executed the	owers (subcompression (subcomp	ontractor), a nt on behalf	
,	Authorized Signature Douglas Harradine Printed Name State Of: New York County Of: Monroe lessica Johnson at Corporation, and coration. Witness my hand and official state of Name York JESSICA JOHNSON State Of Naw York	acknowledged that he/she is the id as Vice President () amp or seal, this 24th	Vice President Title County, NY ce Vice President (title) of day of August	Patriot To executed the	owers (subcomers) (subcomers)	ontractor), a nt on behalf	
person	Authorized Signature Douglas Harradine Printed Name State Of: New York County Of: Monroe lessica Johnson at Corporation, an oration. Witness my hand and official states.	acknowledged that he/she is the id as <u>Vice President</u> (I tamp or seal, this <u>24th</u> Notary Public Si	Vice President Title County, NY ce Vice President (title) of title), being authorized to do so, day ofAugust	Patriot To executed the	owers (subcompression (subcomp	ontractor), a nt on behalf	



P.O.Box 279 Winton, NC 27986 (252) 356-3700

Mill Test Report

Page 3



Issuing Date:

05/29/2015

B/L No. : 417186

Load No.: 423113

Our Order No. : 127920/14

Cust, Order No.: AC2169

Vehicle No: Specification: J POTTER 950

1,2500" x 96,000" x 240,000"

ASTM A572 Grade 65-15

Sold To:

KLEIN STEEL SERVICE INC 105 VANGUARD PKWY

ROCHESTER, NY 14606

Ship To: KLE

KLEIN STEEL SERVICE INC 105 VANGUARD PARKWAY ANNE COMELLA (585) 328-4000 ROCHESTER.NY 14606

Marking: P114A57265

Heat No	C N	n	P	3	Si	Cu	NI	Cr	Mo	Al(tot)	V	Nb	⊜ TI	N	Ca	В	Sn	Ceq	Pr	:m
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Manufactured to fully killed fine grain practice by Electric Arc Furnace, Welding or weld repair was not performed on this material.

Mercury has not been used in the direct manufacturing of this material, Produced as continuous cast discrete plate as-rolled, unless otherwise noted in Specification. For Mexico shipments: nhc-SalesMX@Nucco.com

Yield by 0.5EUL method unless otherwise specified. Cog = C+(Mn/6)+(Cr+Mo+V)/5}+((Cu+Ni)/15)

Pcm = C+(S//30)+(Mn/20)+(Cu/20)+(Ni/60)+(Cr/20)+(Mo/15)+(V/10)+S0

Peril & C+(50/30)+(MM20)+(Ctr20)+(M015)+(V/10)+58

Melted and Manufactured in the USA, ISO 9001:2008 certified (#010940) by SRI Quality System Registrar (#0985-09), PED 97/23/EC 7/2 Annex 1, Para, 4.3 Compliant, DIN 50049 3,1 B/EN 10204 3,18(2004), DIN EN 10204 3,1(2005) compliant, For ABS grades only, Quality Assurance certificate 14-MMPQA-723

specifications, including customer specifications.

T. A. Depretis, Metallurgist

We hereby certify that the contents of this report are accurate and correct. All test results and

operations performed by the material manufacturer are in compliance with the applicable

5/29/2015 5 41 54 PM





P.O.Box 279 Winton, NC 27986 (252) 358-3700

Mill Test Report

Page 3



Issuing Date :

06/15/2015

B/L No.: 418277

Load No.: 421878

Our Order No.: 127920/14

Cust Order No.: AC2169

Vehicle No: Specification:

Sold To:

KLEIN STEEL SERVICE INC **105 VANGUARD PKWY**

KLEIN STEEL BERVICE INC

1.2500" x 96,000" x 240,000" **ASTM A572 Grade 65-15**

ROCHESTER, NY 14606

105 VANGUARD PARKWAY ANNE COMELLA (585) 328-4000 ROCHESTER, NY 14606

Marking # P114A57265

Heat No	C	Mn	P	S	SI	Cu	NF	Cr	Мо	Al(tot)	V	Nb	Ti	N	Ca	В	Sn	Ceq	P	cm
5502672	0.14	1.42	0.016	0.001	0.04	0.19	0.07	0.11	0.01	0,042	0.058	0.042	0.002	0.0149	0.0015	0.0002	0.007	0.43	- 1	0.24
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			T	69,700	86,800			17.4												

Manufactured to fully killed fine grain practice by Electric Arc Furnace. Welding or weld repair was not performed on this material, Mercury has not been used in the direct manufacturing of this material. Produced as continuous cast discrete plate as-rolled, unless otherwise noted in Specification. For Mexico ahipments; phc-SalesMX@Nucor.com Yield by 0.5EUL method unless otherwise specified. Ceq = C+(Mn/6)+((Cr+Mo+V)/5)+((Cu+Ni)/15)

Pcm = C+(Si/30)+(Mn/20)+(Cu/20)+(Ni/60)+(Cr/20)+(Mo/15)+(V/10)+5B Melted and Manufactured in the USA. ISO 9001:2008 certified (#010940) by SRI Quality System Registrar (#0985-09). PEO 97/23/EC 7/2 Annex 1, Para, 4.3 Compliant. DIN 50049 3.1.B/EN 10204 3.1B(2004), DIN EN 10204 3.1(2005) compliant, For ABS grades only, Quality Assurance certificate 14-MMPQA-723

We hereby certify that the contents of this report are accurate and correct. All test results and operations performed by the material manufacturer are in compliance with the applicable specifications, including customer specifications.

T. A. Depretis, Metallurgist

6/15/2015 3:52:26 PM



Laboratory Test Certificate

DATE: 08/05/15
PAGE: 1

CUSTOMER

USA

Lab Test Code 453897

Ajax Part No.

OSB20.95B

M20 X 95 ONESIDE BOLT LPS

QARN: N0007214/25

Test / Method	S	pecification	18	T	Test Date		
	Min	Max	Units	Sample A	Sample Z	Units	
Wedge Tensile Test AS/NZS4291.1	203	0	KN	236	236	KN	08/05/15
Core Hardness AS1815.1	23	34	HRC	31	32	HRC	08/05/15

Ajax Ref: 463736

LPS Lot 10 Noov 7540



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.

Authorised Ajax Representative

Title

ORDER

*** RELEASE ***

Entered By: JOHN

June 26, 2015 9:00 AM

Order#	00012883-0000							
Order Date	06/26/2	015		_				
Page	1 c	f	2	_				
Reg Ship Date	06/26/20	015		-				

BILL D&D

TO: D&D WELDING 4710 ROUTE 104 SHIP

TO:

D&D WELDING 4710 ROUTE 104

WILLIAMSON, NY 14589

WILLIAMSON, NY 14589

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ORDER

*** RELEASE ***

Entered By: JOHN

June 26, 2015 9:00 AM

Order# 00012883-0000 Order Date 06/26/2015 Page 2 of Reg Ship Date 06/26/2015

BILL D&D

TO: D&D WELDING 4710 ROUTE 104 SHIP

TO:

D&D WELDING 4710 ROUTE 104

WILLIAMSON, NY 14589

WILLIAMSON, NY 14589

Ordered By:

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3rd Party

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PLS SHIP DAYTON PLS PROVIDE AJAX REF #S FOR ALL 10 CARTONS AJAX # 463752 PLS PROVIDE AJAX REF #S FOR ALL 7 CARTONS AJAX # 453889 PLS PACK IN HD EXTERNAL BOXES AND STRAP TO PALLET PLS PUT THREE (3) "ISA" LABELS ON EACH HD BOX PLS PUT FOUR (4) "DO NOT STACK" LABELS ON EACH HD-BOX PLS PUT CONTACT ON BOL: MATT DAVID 585-259-4095 PPA = 159.52

Moran Distribution Centers

SDN No.: 499821

Pick Slip: 499821

Shipper

PJS CHICAGO

C/O IRA SVENDGAARD & ASSOC

P.O. BOX 1637 PLACERVILLE, CA

95667

Ship To

D & D WELDING C/O TWR

4710 ROUTE 104 WILLIAMSON NY

14589

Seller's No.: 12883

Via: DAYTON FREIGHT Control Method: TP

Purchase Order: VERBAL MATT

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Moran Distribution Centers

SDN No.: 499821 Pick Slip: 499821

Shipper

PJS CHICAGO

C/O IRA SVENDGAARD & ASSOC

P.O. BOX 1637 PLACERVILLE, CA 95667

WILLIAMSON NY

Ship To

14589

Seller's No.: 12883 Via: DAYTON FREIGHT Purchase Order: VERBAL MATT Control Method: TP

4710 ROUTE 104

D & D WELDING C/O TWR

Via:	DAYTON FI	KEIGHI	COIL				
	Order 1	Date .15	Time 11:33AM	Ship Date 06.26.15	e COD Amount	Pa	age 2
Line	Quantity	Lot	Item Description		Location	We	ight
! ! ! ! 007	1 4 1	! 100 PCS PER ! CTN !CONVEY 1116	20	Qty:	! ! ! ! 4CTN!01/33-101 ! 4!		2!
! 008- ! ! ! !	! 1 ! : - ! ! !	! PARTIAL 15/ ! CTN ! CONVEY 1120 ! !		IZED)	1CTN!01/33-102 ! 1! ! !		
!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!	1 20 1 1 1 1	! CTN !CONVEY 116-	415 453889 M20 X 135 ONESID	Qty:	20CTN!01/33-108	!	111!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!
! 003 ! ! ! ! !	! 7 ! ! !	! CTN ! CONVEY 113 ! ! ! ! ! !	434 463752 M20 X 95 ONESIDE WITH SERRATED	Qty: E ASSEMBLY HEAD	•	1	1
!		! CTN !CONVEY 113	436	Qty:	10CTN!01/33-118 ! 10!	:	1

Klein Steel Service Inc.

105 Vanguard Pkwy Rochester, NY 14606

Phone: 585-328-4000 Fax: 585-328-0470

Website: www.kleinsteel.com

Page 1 of 1

Shipper No. 629430

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

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

Attn: Matt David 259-4095

315-589-4700

August 11, 2015

5:07:43Alv

Terms: .5%	10 Net 30			Contract				
Customer P.0	D. Number:	TOR	RINGTON	F.O.B.:	Delivered	Ship V	ia. Klein	
Sales 1: Ro	on Pritchard		Sales 2: l	Robert Cors	aro	Order No: 629430	Due Date:	8/11/15
Ship Qty	Order Qty	UM	Description			Width	Length	Weight
3	+ T(+ S)	PEC: A DL: CK TRAIGH	-1/4" A572 GR65 F 572 GR 65 S WIDTH X STOO TT AS POSSIBLE		ı	8"	240"	2,042.00
	Heat Numl	pers: p	502672(3)					
3	3					Total	Weight	2,042.00

Shipping Instructions:

Receiving Hours:

Max Bundle Weight:

Spacers:

Messages:

6000# MAX LIFT

ddwelding@verizon.net

Test Certificates Required

Driver Sig ______ Print Name _____ Consignee Sig _____ Print Name

0

MAX BUNDLE WEIGHT #6000



Site Name: Torrington Site ID: CT01499-S-00 Proposed Carrier: AT&T Tower Type: 153' Monopole Site Address: 1925-1931 East Main Street Torrington, CT 06790

Subcontractor Due Diligence Form

Form Number: SDD-01

FDH No.:	15BHCA1700
Str. Analysis Date:	1/13/15
Drawing Date.	3/10/15
Drawing Issue:	Construction
Coordinates:	41.823
	.73 0772

Quiet	The state of the state of the	*					digital district		
	It is the responsibility of the 1926), TIA Standard 1019- Subcontractor, along with a subcontractors with whom	A, and SBA safety stand all other lower tier subco	dards. Should the S	ubcontractor v	riolate any mandated safet	y standards, the S	ubcontracto	r is in breach	I OSHA (Parts 1910 and of contract, and onsible for the actions of all
	I have read the above state	ement and understand.			Subcontractor's Initials	M			
Permi	Release		- 10 mm	STREET, STREET,	ACTUAL DESCRIPTION		14 7 241	Contract Contract	
	In accordance to paragrap	h 4.2 on page 3 of the m	naster subcontractor	agreement th	e contractor will obtain all	permits and Inspe	ctions neces	ssary for the o	roper execution and
	completion of the project. S as detailed, subcontractor	Subcontractor is also res	ponsible for all cost	associated wi	th obtaining permits. If the	state or jurisdiction	n does not		
	Is permit required.	Yes	□ No		Subcontractor's Initials	MA			
	TITI	15-001555							
Distility	Due Diligence	NO THE PROPERTY OF					19100	ALC: NO	
	Subcontractor is responsib resulting from the damage					ound compound) 7	2 hours prid	or to start of co	onstruction. Any repairs
	I have read the above state	ement and understand.			Subcontractor's Initials	AVO			
Pre-Ci	onstruction Sita Walk			net Communication				_	
	Subcontractor has perform	ad eita vieit to varify all (timaneione and avie	ting conditions	neine to faheiantian	4.4		NAME OF TAXABLE PARTY.	Supplied the second
	X	_	No No	usig containons	Subcontractor's Initials				
8	. There are no deviations fro	om specifications and dra Yes	awings. Work can p	roceed as spe	ecified by FDH Engineering Subcontractor's Initials	Ott			
			110-110-110		CODOMBOON 5 (Magas)				
	and Design Deviation Not			非洲的原外		of Jason Color		A	
A	No deviation from the scop subcontractor and/or termination				reement will allowed. Any	deviation will resu	ilt will be co	rrected at the	expense of the
	I have read the above state				Subcontractor's Initials	(/\/			
8	If modifications are made to	o the original design dur	ing construction, red	d-line drawings	s will be provided by the su	obcontractor. Subc	ontractor m	ust make FDI	l aware of their intended
	changes before said chang measures.	jes take place. If change	s are made without	consent of FE	OH in writing; the subcontra	actor will be respon	isible for all	cost associati	ed with corrected
	I have read the above state	ement and understand.			Subcontractor's Initiats				
	and Concrete Certifications								State and the state of
^	 Subcontractor must submit Subcontractor must submit 					de of steel, this ma	y include si	teel certification	n from steel mill.
	I have read the above state	ement and understand.			Subcontractor's Initials	""			
8	Subcontractor must submit	all batch reports for all	concrete poured. If	more than 8 y	ards of concrete are poure	ed then a minimum	of 3 cylinde	ers will be mad	de per truck of concrete.
	I have read the above state	ement and understand.			Subcontractor's Initials	1/00			1000 1 100 10 10 10 10 10 10 10 10 10 10
Weath	er and Fabrication Delays						40 8	N ISEA	
	All delays caused by fabric any delays subcontractor n	ation and weather must nust submit a written res	be brought to the at ponse detailing the	tention of FDI delay within 2	I in writing. Delays at the I hrs of the occurance. Ea	result of weather s ich occurrence will	hall be sent be evaluate	to FDH Imme ed on a case b	diately. Should there be ly case basis.
	I have read the above state	ement and understand,			Subcontractor's Initials				
Subco	ntractor Notification			Shirt dinger					W longs
	Contractor will list all subco to handle all liens and payr			ontractors mu	st have all required local a	ind federal certifica	itions. It is t	he responsibil	ty of the general contractor
	Subcontractor			Contact:				Telephone:	
	Subcontractor:			Contact:				Telephone:	
	Subcontractor:			Contact:				Telephone:	
Table 1								,	
Alberta	Subcontractor has read and these terms and conditions			conditions lis	led in this document and a	any preceding bid	documents.	Subcontracto	r also agrees to abide by
	Company's Name:	Patriot Towers, Inc							
		Douglas Harr	adine		-				
	Contact(Print Name)	Douglas Hall	acilic		17				
, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Signature:	1			(Date:	08-24-	15	Revised 03/04/14
								_	



SBA 5900 Broken Sound Parkway, NW Boca Raton, FL 33487

DATE: September 1, 2015

RE: Construction Inspections Letter for Torrington CT01499-S-00

To Whom It May Concern:

Patriot Towers Inc. completed all work at Torrington CT01499-S-00 on August 31, 2015 and that all work was performed in accordance with industry standards and contract documents including modification drawings and specifications, state and local regulation, OSHA, and Engineering standards.

Sincerely,

Douglas Harradine, Vice President

Patriot Towers, Inc. 870 Scottsville-Chili Road Scottsville, NY 14546 O- 585-889-3391



THE MODIFICATIONS DEPICTED ON THESE DRAWINGS ARE BASED ON THE RECOMMENDATIONS OUTLINED IN THE STRUCTURAL ANALYSIS COMPLETED BY FDH ENGINEERING, INC., PROJECT NO. 15BAJS1400 DATED JANUARY 13, 2015.

THIS REPORT WAS BASED ON A SPECIFIC ANTENNA AND COAX CONFIGURATION PROVIDED BY THE TOWER OWNER. ANY CHANGE TO THIS INFORMATION MUST BE REVIEWED BY FDH ENGINEERING, INC.

ALL DIMENSIONS, MEASUREMENTS, QUANTITIES, PART NUMBERS AND COAX/ANTENNA PLACEMENTS TO BE FIELD VERIFIED BY CONTRACTOR PRIOR TO MATERIAL ORDERS AND CONSTRUCTION.

FOR INQUIRIES REGARDING THE CONTENT OF THESE MODIFICATION DRAWINGS, PLEASE CONTACT STEVEN STRICKLAND WITH THE FDH CONSTRUCTION DEPARTMENT (919) 755-1012

Patriot Towers, Inc. As Built 9-1-15

PROJECT DESCRIPTION:

MODIFICATION DRAWINGS FOR A 153' MONOPOLE



SITE NAME: **TORRINGTON**

SITE NUMBER: CT01499-S-00

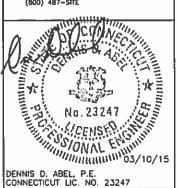
SITE ADDRESS: 1925-1931 EAST MAIN STREET TORRINGTON, CT 06790

COORDINATES:

LATITUDE: 41.8230° LONGITUDE: -73.0772°

SHEET INDEX SHT. **DESCRIPTION** NO. T-1 TITLE SHEET MODIFICATION INSPECTION NOTES N-2 GENERAL NOTES MODIFICATION SCHEDULE S-2 FLAT PLATE INSTALLATION DETAILS

6521 MERIDIEN DRIVE RALEIGH, NC 27616 PHONE: 919-755-1012 FAX: 919-755-1031 ENGINEERING INNOVATION



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	SUBMITTALS	
DATE	DESCRIPTION	REV
03/10/15	CONSTRUCTION	0
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THE INFORMATION CONTAINED IN THIS SET OF DOCUMENTS IS PROPRIETARY BY NATURE. REPRODUCTION OR CAUSING TO BE REPRODUCED THE WHOLE OR ANY PART OF THESE DRAWINGS WITHOUT THE PERMISSION OF FDH ENGINEERING, INC. IS PROHIBITED.

> SITE NAME: **TORRINGTON**

SITE NUMBER: CT01499-S-00

SITE ADDRESS: 1925-1931 EAST MAIN STREET **TORRINGTON, CT 06790**

SHEET TITLE

TITLE SHEET

SHEET NUMBER

T-1

CONSTRUCTION/INSTALLATION INSPECTIONS AND TESTING REQUIRED	REPORT ITEM				
Ţ.	PRE-CONSTRUCTION				
Х	MI CHECKLIST DRAWING				
N/A EOR APPROVED SHOP DRAWINGS					
X	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 INSPE	ections:				
(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				
N/A	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					
X	ADDITIONAL TESTING AND INSPECTIONS:				
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ADDITIONAL TESTING AND INSPE	POST-CONSTRUCTION				
ADDITIONAL TESTING AND INSPE					
ADDITIONAL TESTING AND INSPE	POST-CONSTRUCTION				

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

MODIFICATION INSPECTION NOTES:

GENERAL

- 1. THE POST CONSTRUCTION INSPECTION (MI) 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 MI IS TO CONFIRM INSTALLATION CONFIGURATION AND WORKMANSHIP ONLY AND IS NOT A REVIEW OF THE MODIFICATION DESIGN ITSELF, NOR DOES THE MI INSPECTOR TAKE OWNERSHIP OF THE MODIFICATION DESIGN. OWNERSHIP OF THE STRUCTURAL MODIFICATION DESIGN EFFECTIVENESS AND INTEGRITY RESIDES WITH THE EOR AT ALL
- 3. ALL MI'S SHALL BE CONDUCTED BY A MI INSPECTOR THAT IS APPROVED TO PERFORM ELEVATED WORK FOR FDH ENGINEERING, INC.
- 4. TO ENSURE THAT THE REQUIREMENTS OF THE MI ARE MET, IT IS VITAL THAT THE GENERAL CONTRACTOR (GC) AND THE MI 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.

MI INSPECTOR

- 1. THE MI INSPECTOR IS REQUIRED TO CONTACT THE GC AS SOON AS RECEIVING A PO FOR THE MI TO, AT A MINIMUM:
- REVIEW THE REQUIREMENTS OF THE MI CHECKLIST
 WORK WITH THE GC TO DEVELOP A SCHEDULE TO CONDUCT ON-SITE INSPECTIONS, INCLUDING FOUNDATION INSPECTIONS
- 2. THE MI 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

CORRECTION OF FAILING MI'S

- 1. IF THE MODIFICATION INSTALLATION WOULD FAIL THE MI ('FAILED MI'). THE GC SHALL WORK WITH FOH 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 MI.
- . 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

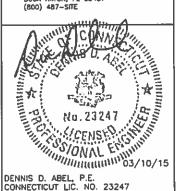
- 1. BETWEEN THE GC AND THE MI INSPECTOR THE FOLLOWING PHOTOGRAPHS, AT A MINIMUM, ARE TO BE TAKEN AND INCLUDED IN THE MI REPORT:
 - PRE-CONSTRUCTION GENERAL SITE CONDITION
 - . PHOTOGRAPHS DURING THE REINFORCEMENT MODIFICATION CONSTRUCTION/ERECTION AND INSPECTION
 - .. RAW MATERIALS
 - .. PHOTOS OF ALL CRITICAL DETAILS
 - .. FOUNDATION MODIFICATIONS
 - ** 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.

Patriot Towers, Inc. As Built Date:

Signature:_

6521 MERIDIEN DRIVE RALEIGH, NC 27616 PHONE: 919-755-1012 ENGINEERING INNOVATION

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



ENG APPVD:	DDA			
PROJECT NO:	15BFJD <u>1</u>	400		
	SUBMITTALS			
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DRAWN BY:

CHECKED BY:

THE INFORMATION CONTAINED IN THIS SET OF DOCUMENTS IS PROPRIETARY BY NATURE. REPRODUCTION OR CAUSING TO BE REPRODUCED THE WHOLE OR ANY PART OF THESE DRAWINGS WITHOUT THE PERMISSION OF FDH ENGINEERING, INC.

SITE NAME:

TORRINGTON

SITE NUMBER: CT01499-S-00

SITE ADDRESS: 1925-1931 EAST MAIN STREET TORRINGTON, CT 06790

SHEET TITLE

MODIFICATION INSPECTION NOTES

SHEET NUMBER

N-1

GENERAL NOTES:

- 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.
- 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
- 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.
- CONTRACTOR SHALL PROMPTLY REMOVE ANY & ALL DEBRIS FROM SITE AND RESTORE AS BEST AS POSSIBLE TO PRECONSTRUCTION
- THE CLIMBING FACILITIES, SAFETY CLIMB AND ALL PARTS THEREOF SHALL NOT BE IMPEDED, MODIFIED OR ALTERED WITHOUT THE EXPRESS APPROVAL OF THE CROWN ENGINEERING GROUP (OR ENGINEER OF RECORD)

CONTRACTOR QUALIFICATION NOTES:

- 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 STANDARDS 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.
- ALL SUBMITTAL INFORMATION MUST BE SENT TO FDH ENGINEERING, INC. 6521 MERIDIEN 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 FOH ENGINEERING, INC.
- ALL CONSTRUCTION TO BE IN ACCORDANCE WITH THE TIA-1019-A

JOB SITE SAFETY & NOTES:

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.

STEEL:

ALL STRUCTURAL STEEL SHALL BE FABRICATED AND ERECTED IN ACCORDANCE WITH THE LATEST AISC CODE AND ASTM

*ALL STEEL PLATES SHALL BE ASTM A572-65 (Fy=65KSI) UNLESS OTHERWISE SPECIFIED.

- 2. ALL CONNECTIONS OF STRUCTURAL STEEL MEMBERS SHALL BE MADE USING SPECIFIED WELDS WITH WELDING ELECTRODES E-80XX OR SPECIFIED HIGH STRENGTH BOLTS TO BE ASTM A325N, THREAD INCLUDED WITH SHEAR PLANE (UNLESS OTHERWISE NOTED).
- ALL BOLTED CONNECTIONS TO BE INSTALLED TO A SNUG-TIGHTENED CONDITION IN ACCORDANCE WITH AISC 13 PART 16.2. "SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OF A490 BOLTS", SECTION 8.1, 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
- 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 ACHEIVING 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 FOH 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:

- 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:

- 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

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

NEW FLAT PLATE REINFORCEMENT NOTES:

- 1. CONTRACTOR TO FIELD VERIFY PROPOSED LOCATION OF FLAT PLATE TO ENSURE THAT PROPER SPACING CAN BE MET.
- 2. CONTRACTOR TO REPLACE AND/OR RELOCATE ANY CLIMBING PEGS THAT INTERFERE WITH THE INSTALLATION OF FLAT
- 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. ALL SHEAR SLEEVES TO BE HOT DIPPED GALVANIZED PRIOR TO INSTALLATION.
- PRIOR TO FLAT PLATE INSTALLATION, SLIP JOINTS MUST BE TIGHTENED WITH A MINIMUM JACKING FORCE OF 6000 LBS.
- 6. NEW FLAT PLATES TO BE INSTALLED ON THE CENTER OF PROPOSED SIDE UNLESS OTHERWISE NOTED
- EXISTING COAX BANDS TO BE REPLACED AFTER FLAT PLATE INSTALLATION. NEW FLAT PLATE TO BE INSTALLED BENEATH EXISTING COAX BANDS.

CONSTRUCTION NOTES:

1. 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.

PRETENSION BOLTS:

ALL DIRECT TENSION INDICATOR (OTI) WASHERS SHALL BE THE "SQUIRTER® STYLE" AS MANUFACTURED BY:

APPLIED BOLTING TECHNOLOGY PRODUCTS, INC. 1413 ROCKINGHAM ROAD BELLOWS FALLS, VERMONT 05101, USA PHONE: 1-800-552-1999 WEBSITE: WWW.APPLIEDBOLTING.COM

- 2. USE DIRECT TENSION INDICATOR (DTI WASHERS COMPATIBLE WITH 3/4" NOMINAL A325 BOLTS FOR THE AJAX M2D BOLTS. DTI'S SHALL NOT BE HOT-DIP GALVANIZED, DTI'S SHALL BE MECHANICALLY GALVANIZED (MG) BY THE COLD MECHANICAL PROCESS ONLY AS PROVIDED BY THE DTI MANUFACTURER.
- 3. USE HARDENED WASHER FOR A 3/4" NOMINAL BOLT BETWEEN THE TOP OF DIRECT TENSION INDICATOR (DTI) WASHER AND THE NUT OF THE AJAX M20 BOLT, HARDENED WASHERS SHALL CONFORM TO ASTM F436 AND HAVE A MINIMUM HARDNESS OF RE 38 OR HIGHER THE HARDENED WASHERS SHALL BE MECHANICALLY GALVANIZED BY COLD MECHANICAL PROCESS. ALTERNATIVELY, CORRECTLY MADE HOT DIP GALVANIZED HARDENED FLAT WASHERS HAVING A MINIMUM HARDNESS OF RC 38 CAN BE USED: CONTRACTOR SHALL PROVIDE DOCUMENTATION OF WASHER SPECIFICATION AND HARDNESS.
- 4. CONTRACTOR SHALL FOLLOW DTI MANUFACTURER'S INSTRUCTION FOR INSTALLATION, LUBRICATION, TIGHTENING AND INSPECTION.

INSPECTION REQUIRED: ALL AJAX BOLTS SHALL BE INSPECTED ACCORDING TO THE REQUIREMENTS OF THE AISC "SPECIFICATION FOR STRUCTURAL JOINTS USING HIGH-STRENGTH BOLTS', DEC. 31, 2009, BY A QUALIFIED BOLT INSPECTOR, DURING INSTALLATION, THE BOLT INSPECTOR SHALL VERIFY AND DOCUMENT THE SHOP-DRILL AND FIELD-DRILLED HOLE SIZES; THE INSTALLATION OF THE AJAX BOLT ASSEMBLY, INCLUDING THE SHEAR SLEEVE PLACEMENT AND NUT LUBRICATION AND CONTRACTOR'S TENSIONING PROCEDURE. IN ADDITION, ALL AJAX BOLTS AND DTI'S SHALL BE VISUALLY INSPECTED ACCORDING TO THE DTI MANUFACTURER'S INSTRUCTIONS. THE BOLT INSPECTOR SHALL PROVIDE PHOTO DOCUMENT OF ALL BOLTS AFTER TIGHTENING CLEARLY SHOWING THE CONDITION OF THE

COLD GALVANIZATION/SURFACE PREPARATION NOTES:

- CONTRACTOR TO USE ZINGA OR ZRC COLD GALVANIZATION COMPOUNDS OR APPROVED EQUIVALENT.
- PREPARE RUSTED/CORRODED SURFACE FOR TREATMENT ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.
- 3. CONTRACTOR TO APPLY (2) COATS OF COLD GALVANIZATION COMPOUND PER MANUFACTURER'S RECOMMENDATION. DRYING AND CURING TIMES MUST BE UTILIZED PER MANUFACTURER'S RECOMMENDATION.
- 4. APPLY ALL COATINGS BY BRUSH IN CALM WIND CONDITIONS. THE USE OF AEROSOL IS NOT PERMITTED.
- 5. IF THE TOWER IS PAINTED, BRUSH PAINT ALL TREATED AREAS TO MATCH TOWER AFTER COLD GALVANIZATION COMPOUND IS

Patriot Towers, Inc. As Built Signature: 12

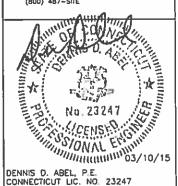


PREPARED BY:

PREPARED FOR:

ENGINEERING INNOVATION





DRAWN BY:	J.
CHECKED BY:	MSC
ENG APPVO:	DDA
PROJECT NO:	158FJD1400

	SUBMITTALS	
DATE	DESCRIPTION	REV
03/10/15	CONSTRUCTION	0
	0.725.72	
	· -	

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> SITE NAME: **TORRINGTON**

SITE NUMBER: CT01499-S-00

SITE ADDRESS: 1925-1931 EAST MAIN STREET TORRINGTON, CT 06790

SHEET TITLE

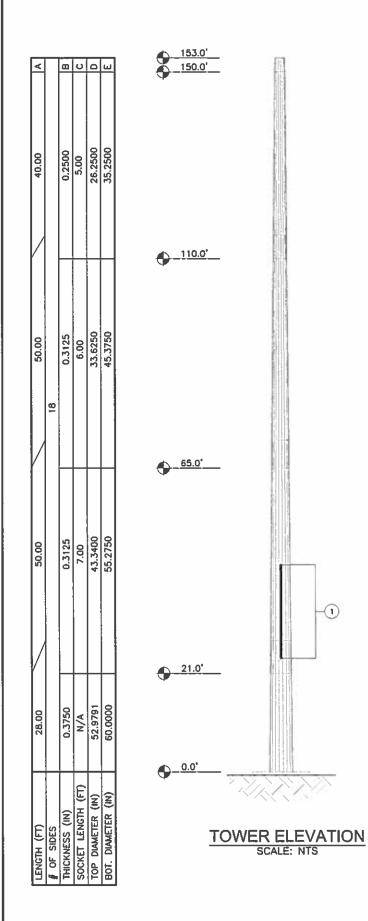
GENERAL NOTES

SHEET NUMBER

N-2

FIELD DRILLED HOLE IN SLEEVE MUST CROSS EXISTING MONOPOLE. SHEAR PLANE COAT W/ ZRC ZINC COLD INSIDE GALVANIZE COMPOUND -EXISTING MONOPOLE SHOP DRILLED HOLE IN NEW REINFORCEMENT. 꼾띡 HOT DIP GALVANIZED PER ASTM A123 REINFORCEMENT

AJAX BOLT ASSEMBLY



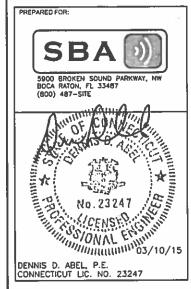
	MEMBER KEY SIZE		
MARK	SIZE		
Α	3.00		
В	0.2500		
С	N/A		
D	24.0000		
E	26.2500		

- APPURTENANCES MAY INTERFERE WITH PROPOSED MODIFICATIONS.
- ALL MODIFICATIONS TO BE INSTALLED CONTINUOUSLY THROUGH EXISTING EQUIPMENT (UNLESS NOTED OTHERWISE). 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.
- COAX GRAPHICS NOT SHOWN FOR CLARITY. SEE STRUCTURAL ANALYSIS REPORT FOR EXISTING COAX CONFIGURATION.

	TOWER MODIFICATION SCHEDULE		
NO.	TYPE OF MODIFICATION	BOTTOM ELEV. (FT)	TOP ELEV. (FT)
1	INSTALLATION OF NEW FLAT PLATE REINFORCEMENT. SEE SHEET S-2 FOR DETAILS.	24.3±	44.3±
	TOWER FINISH: GALVANIZED		

Patriot Towers, Inc. As Built Date: 9-1-45 Signature:





DRAWN BY:	JK
CHECKED BY:	MSG
ENG APPVD:	DDA
PROJECT NO:	158FJD1400

SUBMITTALS		
DATE	DESCRIPTION	REV
03/10/15	CONSTRUCTION	0
}		

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SITE NAME:

TORRINGTON

SITE NUMBER: CT01499-S-00

SITE ADDRESS: 1925-1931 EAST MAIN STREET TORRINGTON, CT 06790

SHEET TITLE

MODIFICATION SCHEDULE

SHEET NUMBER

S-1

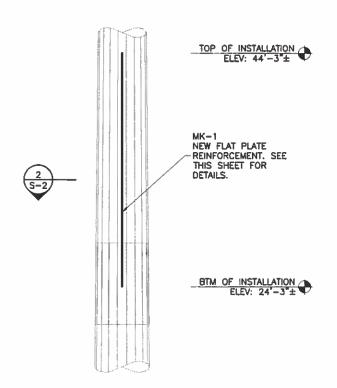
FLAT PLATE INSTALLATION SCHEDULE

PART#	QTY.	DESCRIPTION	ELEVATION	FLATS
MK-1	3	FLAT PLATE REINFORCEMENT	24'-3"± TO 44'-3"±	1 - 7 - 13
-	108	20MM AJAX BOLTS	VARIES	<u>~</u>

AS PER EMAIL

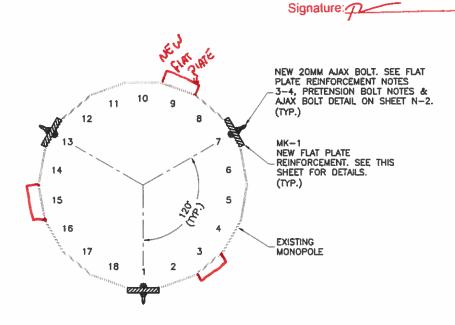
As Built Date:_

Patriot Towers, Inc.



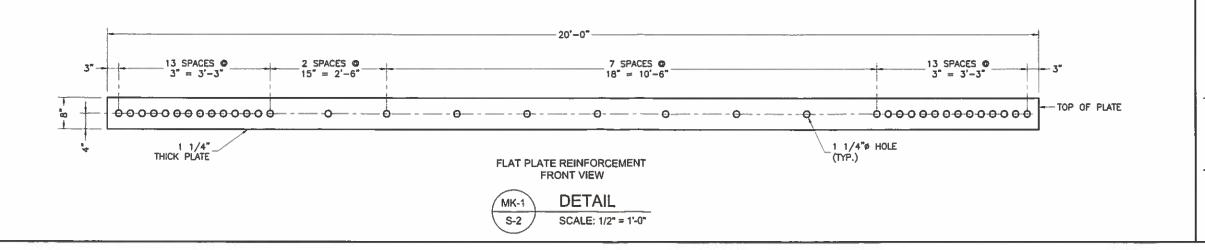
FLAT PLATE REINFORCEMENT LAYOUT **ELEVATION VIEW**

ELEVATION S-2 SCALE: NTS



FLAT PLATE REINFORCEMENT LAYOUT **PLAN VIEW**





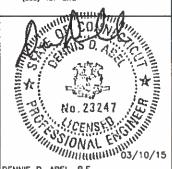


6521 MERIDIEN DRIVE RALEIGH, NC 27616 PHONE: 919-755-1012 FAX: 919-755-1031

PREPARED FOR:



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



DENNIS D. ABEL. P.E. CONNECTICUT LIC. NO. 23247 DRAWN BY:

CHECKED BY: MSG ENG APPVD: DDA PROJECT NO: 15BFJD1400

SUBMITTALS		
DATE	DESCRIPTION	REV
03/10/15	CONSTRUCTION	0
		+
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SITE NAME:

TORRINGTON

SITE NUMBER:

CT01499-S-00

SITE ADDRESS:

1925-1931 EAST MAIN STREET TORRINGTON, CT 06790

SHEET TITLE

FLAT PLATE INSTALLATION DETAILS

SHEET NUMBER

S-2

Drew Alexander

From: Joshua Carden

Sent: Monday, August 31, 2015 9:03 AM **To:** Mark Girgis; Jeffrey Johnson

Cc: Steven Strickland

Subject: RE: Torrington CT01499-S-00 - Orientation of Flat Plate

Attachments: IMG_8571.JPG

Jeff,

Looking at the attached photo, it appears the safety is located on a corner with step pegs located on the two adjacent flats. Assuming flat 1 is to the left of the safety, I would recommend they move their orientation to 3,9,15 or 4,10,16 depending on the step peg configuration at the elevation they are installing. As long as they maintain a 120 degree separation, the installation will be acceptable.

Josh Carden, El

Project Engineer III

FDH Velocitel

6521 Meridien Dr. Raleigh, NC 27616

Direct: (919) 367-5071 Office: (919) 755-1012

Email: <u>Joshua.Carden@FDHVelocitel.com</u>

Website: www.fdhvelocitel.com



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From: Mark Girgis

Sent: Monday, August 31, 2015 8:50 AM

To: Jeffrey Johnson

Cc: Steven Strickland; Joshua Carden

Subject: RE: Torrington CT01499-S-00 - Orientation of Flat Plate

Jeff,

Typically, we designate flat 1 on the same flat as the safety climb and continue counter clockwise. I'd prefer that the contractor sticks to the orientation in our drawings if they can.

Please let me know if you have any more questions.

Thanks,

Mark S. Girgis, El

Project Engineer

FDH Velocitel

6521 Meridien Drive Raleigh, NC 27616 Office: (919) 755-1012

Email: Mark.Girgis@FDHVelocitel.com
Website: http://www.FDHVelocitel.com



From: Jeffrey Johnson

Sent: Monday, August 31, 2015 8:46 AM

To: Mark Girgis

Cc: Steven Strickland; Joshua Carden

Subject: Torrington CT01499-S-00 - Orientation of Flat Plate

Mark:

Good morning!

My subcontractor just arrived on-site to complete construction of this MOD. The Contract Drawings call for flat plate to be installed on Flats 1, 7, and 13 from Elev 24.3 - 44.3' +/-. Although, the Contractor has no way of knowing the orientation where Flats 1, 7, and 13 are located on the existing monopole. Is there a Pre-Existing document that may have this info or can we install the flat plate on any flats as long as we maintain 120 degrees of separation?

Please provide info and advise ASAP.

Thanks,

Jeffrey D. Johnson, P.E.

Senior Project Manager - Construction

FDH Velocitel

8000 Regency Parkway Suite 430 Cary, NC 27518

Office: 919-380-0062 Ext 219

Mobile: 919-710-6697

Email: Jeffrey.Johnson@FDHVelocitel.com

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ENGINEERING INNOVATION

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