

July 5, 2022

Attorney Melanie Bachman Acting Executive Director Connecticut Siting Council Ten Franklin Square New Britain, CT 06501

**EM-T-MOBILE-164-210426** T-Mobile Site ID CTHA130A 419 Broad Street, Windsor, CT Notice of Compliance with Conditions and Construction Completion

Dear Attorney Bachman:

The T-Mobile site referenced above was approved by The Connecticut Siting Council (Council) on May 25, 2021 as an Exempt Modification. T-Mobile is now requesting the close out of the approval and hereby acknowledges the following conditions were met:

- 1. Prior to T-Mobile's antenna installation, the antenna mount modifications shall be installed in accordance with the Mount Analysis prepared by Malouf Engineering International, Inc., dated February 16, 2021 and stamped and signed by E. Mark Malouf;
- 2. Within 45 days following completion of equipment installation, T-Mobile shall provide documentation certified by a Professional Engineer that its installation complied with the recommendations of the Mount Analysis;
- 3. Any deviation from the proposed modification as specified in this notice and supporting materials with the Council shall render this acknowledgement invalid;
- 4. Any material changes to this modification as proposed shall require the filing of a new notice with the Council;



- 5. The Council shall be notified in writing at least two weeks prior to the commencement of site construction activities;
- 6. Within 45 days after completion of construction, the Council shall be notified in writing that construction has been completed;
- 7. Any nonfunctioning antenna and associated antenna mounting equipment on this facility owned and operated by T-Mobile shall be removed within 60 days of the date the antenna ceased to function;
- 8. The validity of this action shall expire one year from the date of this letter; and
- 9. 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 attached PE Closeout Letter dated March 22, 2022 provides evidence of compliance with the conditions outlined by the Council. In addition, T-Mobile hereby notifies the Council that construction of the acknowledged modifications was completed as of August 11, 2021.

Sincerely,

Victoria Masse

Victoria Masse Zoning and Permitting Northeast Site Solutions



March 22, 2022

Everest Infrastructure Partners Two Allegheny Ctr Nova Tower 2, Suite 1002 Pittsburgh, PA 15212

Subject:	Modification Inspection						
EIP Designation:	Site Name: Site Number:	Windsor CO 701776					
Inspection Firm:	Armor Tower, Inc						
Site Data:	419 Broad St, Win N39°-50'-45", W7 100' Monopole To	'2°-38'-46"					

Armor Tower, Inc. is pleased to submit this "Modification Inspection" (MI Report) to Everest Infrastructure Partners for the modification/reinforcement of the subject tower. This Modification Inspection (MI) was performed as a review of the General Contractor supplied coloseout documents. The purpose of this MI is to document that the modification installation is in compliance with the contract document(s) listed in Table 2. This package is not a review of the modification design.

# Table 1 – General Information

Description	Company	Contact Info
MI Inspector	Armor Tower, Inc.	Patrick Botimer
		Structural Design Engineer V
		607-591-5381
Modification Design EOR	Malouf Engineering Intl, Inc.	Krishna Manda, PE
		972-783-2578
General Contractor	TEP Design Build, Inc.	Johnathan Queen
		919-661-63515
Sub to the General Contractor	NA	
Field CWI for the General	NA	
Contractor		
Field NDE for the General	NA	
Contractor		

# Table 2 – Design Documents

Document(s)	Remarks	Source
Tower Modification Drawings	MEI Project No. CT00873M- 18V3	Everest Infrastructure

Based on our review, Armor Tower has concluded this project as:

# PASSING MI

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

We appreciate the opportunity to provide our continued professional services to you and if you have any questions concerning this MI, please contact us.

Sincerely,

ARMOR TOWER, INC.

Patrick Botimer Structural Design Engineer V

# **Project Closeout Information-Table of Contents**

# **PRE-CONSTRUCTION**

# **Reference Document**

٠	MI Checklist Drawing		5
•	EOR Approved Shop Drawings		6
•	Fabricator Certified Welding Insp	ection(CWI)	9
•	Material Testing Report (MTR)	Bar, Bolts	15
•	Fabricator NDE Inspection		NA
•	NDE Report of Monopole Base Pla	NA	
•	Packing Slips		21

# CONSTRUCTION

•	Construction Inspections	23
•	Foundation Inspections	NA
•	Concrete Compression Strength and Slump Tests	NA
•	Earthwork: Lift & Density	NA
•	Post-Installed Anchor Rod Verification	NA
•	Base Plate Grout Verification	NA
•	Contractor's Certified Welding Inspection	NA
•	Galvanizing Verification	24
•	Guy Wire Tension & Mast plumb Report	NA
•	GC As-Built Documents	25

# **POST-CONSTRUCTION**

•	GC Construction Inspection	NA
•	Redline Drawings	NA
•	Post-Installed Anchor Rod Pull-out Testing	NA
•	Photographs	30
•	EOR Correspondences	NA

# CONTRACTOR CLOSEOUT DOCUMENTS

# BOLT TIGHTENING PROCEDURE

1. TIGHTEN BOLTS BY AISC "TURN OF THE NUT" METHOD USING THE CHART BELOW: BOLT LENGTHS UP TO AND INCLUDING FOUR DIAMETERS:

+ 1/3 TURN BEYOND SNUG TIGHT BOLT LENGTHS OVER FOUR AND UP TO EIGHT DIAMETERS:

+ 1/2 TURN BEYOND SNUG TIGHT

2. ALL ONE-SIDED BOLTS SHALL BE TIGHTENED IN ACCORDANCE WITH MANUFACTURER RECOMMENDATIONS

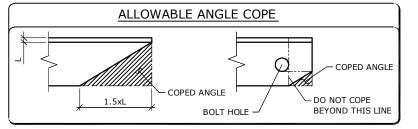
3. SPLICE BOLTS SUBJECT TO DIRECT TENSION SHALL BE INSTALLED AND TIGHTENED AS PER SECTION 8(D)(1) OF THE AISC MANUAL OF STEEL CONSTRUCTION. THE INSTALLATION PROCEDURE IS AS FOLLOWS:

"FASTENERS SHALL BE INSTALLED IN PROPERLY ALIGNED HOLES AND BE TIGHTENED BY ONE OF THE METHODS DESCRIBED IN SUBSECTION 8(D)(1) THROUGH 8(D)(4).

## 8(D)(1) TURN-OF-THE-NUT TIGHTENING:

BOLTS SHALL BE INSTALLED IN ALL HOLES OF THE CONNECTION AND BROUGHT TO A SNUG TIGHT CONDITION. SNUG TIGHT IS DEFINED AS THE TIGHTNESS THAT EXISTS WHEN THE PLIES OF A JOINT ARE IN FIRM CONTACT. THIS MAY BE OBTAINED BY A FEW IMPACTS OF AN IMPACT WRENCH OR THE FULL EFFORT OF A MAN USING AN ORDINARY SPUD WRENCH. SNUG TIGHTENING SHALL PROGRESS SYSTEMATICALLY...UNTIL ALL THE BOLTS ARE SIMULTANEOUSLY SNUG TIGHT AND THE CONNECTION IS FULLY COMPACTED. FOLLOWING THIS INITIAL OPERATION, ALL BOLTS IN THE CONNECTION SHALL BE TIGHTENED FURTHER BY THE APPLICABLE AMOUNT OF ROTATION SPECIFIED ABOVE. DURING THE TIGHTENING OPERATION, THERE SHALL BE NO ROTATION OF THE PART NOT TURNED BY THE WRENCH. TIGHTENING SHALL PROGRESS





1. ALL DIMENSIONS REPRESENTED IN THE ABOVE TABLES ARE AISC MINIMUM REQUIREMENTS. CONTRACTOR SHALL VERIFY EXISTING CONDITIONS IN FIELD AND NOTIFY ENGINEER IF DISTANCES ARE LESS THAN THOSE PROVIDED.

2. THE DIMENSIONS PROVIDED ARE MINIMUM REQUIREMENTS. ACTUAL DIMENSIONS OR PROPOSED MEMBERS WITHIN THESE DRAWINGS MAY VARY FROM THE AISC MINIMUM REQUIREMENTS.

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g2	3	3	2 1/2	1 3/4											

## POST-MODIFICATION INSPECTION NOTES

# GENERAL

THE POST-MODIFICATION INSPECTION (PMI) IS A VISUAL INSPECTION OF TOWER MODIFICATIONS AND A REVIEW OF CONSTRUCTION INSPECTIONS AND OTHER REPORTS TO ENSURE THE INSTALLATION WAS PERFORMED IN ACCORDANCE WITH THE MODIFICATION DESIGN DRAWINGS BY THE ENGINEER OF RECORD (EOR).

ALL PMI'S SHALL BE CONDUCTED BY A QUALIFIED TOWER INSPECTION VENDOR (QTIV) THAT IS APPROVED TO PERFORM ELEVATED WORK AND HAS QUALIFIED RELATED EXPERIENCE.

TO ENSURE THAT THE REQUIREMENTS OF THE PMI ARE MET, IT IS VITAL THAT THE GENERAL CONTRACTOR (GC) AND THE PMI INSPECTOR BEGIN COMMUNICATING AND COORDINATING AS SOON AS APPROVAL IS RECEIVED TO DEVELOP A SCHEDULE TO CONDUCT ON-SITE INSPECTIONS.

# **GENERAL CONTRACTOR**

THE GC IS REQUIRED TO, AT A MINIMUM:

- REVIEW THE REQUIREMENTS OF THE PMI CHECKLIST
   WORK WITH THE PMI INSPECTOR TO DEVELOP A SCHEDULE TO CONDUCT ON-SITE PMI INSPECTIONS, INCLUDING FOUNDATION INSPECTIONS.
- BETTER UNDERSTAND ALL INSPECTION AND TESTING REQUIREMENTS

THE GC SHALL PERFORM AND RECORD THE TEST AND INSPECTION RESULTS IN ACCORDANCE WITH THE REQUIREMENTS OF THE PMI CHECKLIST.

# RECOMMENDATIONS

THE FOLLOWING RECOMMENDATIONS AND SUGGESTIONS ARE OFFERED TO ENHANCE THE EFFICIENCY AND EFFECTIVENESS OF DELIVERING A PMI REPORT:

- IT IS SUGGESTED THAT THE GC PROVIDE A MINIMUM OF 5 BUSINESS DAYS NOTICE, PREFERABLY 10, TO THE PMI INSPECTOR AS TO WHEN THE SITE WILL BE READY FOR THE MI TO BE CONDUCTED.
- IT MAY BE BENEFICIAL TO INSTALL ALL TOWER MODIFICATIONS PRIOR TO CONDUCTING THE FOUNDATION INSPECTIONS TO ALLOW FOUNDATION AND MI INSPECTION(S) TO COMMENCE WITH ONE SITE VISIT.
- WHEN POSSIBLE, IT IS PREFERRED TO HAVE THE GC AND PMI INSPECTOR ON-SITE DURING THE PMI TO HAVE ANY DEFICIENCIES CORRECTED DURING THE INITIAL PMI. THEREFORE, THE GC MAY CHOOSE TO COORDINATE THE PMI CAREFULLY TO ENDURE ALL CONSTRUCTION FACILITIES ARE AT THEIR DISPOSAL WHEN THE PMI INSPECTOR IS ON SITE.

# CORRECTION OF FAILING PMI'S

IF THE POST-MODIFICATION INSTALLATION WOULD FAIL THE PMI ("FAILED MI"), THE GC SHALL WORK 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 PMI.

OR, WITH OWNER'S APPROVAL, THE GC MAY WORK WITH THE EOR TO RE-ANALYZE THE MODIFICATION/REINFORCEMENT USING THE AS-BUILT CONDITION

## **REQUIRED PHOTOS**

BETWEEN THE GC AND THE PMI INSPECTOR THE FOLLOWING PHOTOGRAPHS, AT A MINIMUM, ARE TO BE TAKEN AND INCLUDED IN THE PMI REPORT:

0 10/04/18 ISSUED FOR CONSTRUCTION

REVISIONS

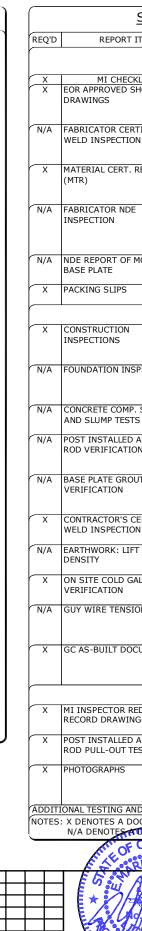
NO. DATE

• PRE-CONSTRUCTION GENERAL SITE CONDITION

- •• PHOTOGRAPHS DURING THE REINFORCEMENT MODIFICATION CONSTRUCTION.
- •• RAW MATERIALS
- PHOTOS OF ALL CRITICAL DETAILS
- FOUNDATION MODIFICATIONS
- WELD PREPARATION
- •• BOLT INSTALLATION AND TORQUE
- FINAL INSTALLED CONDITIONSURFACE COATING REPAIR

POST CONSTRUCTION PHOTOGRAPHS

• FINAL IN-FIELD CONDITION



BDB KMM MM

DRAWN ENG'D.

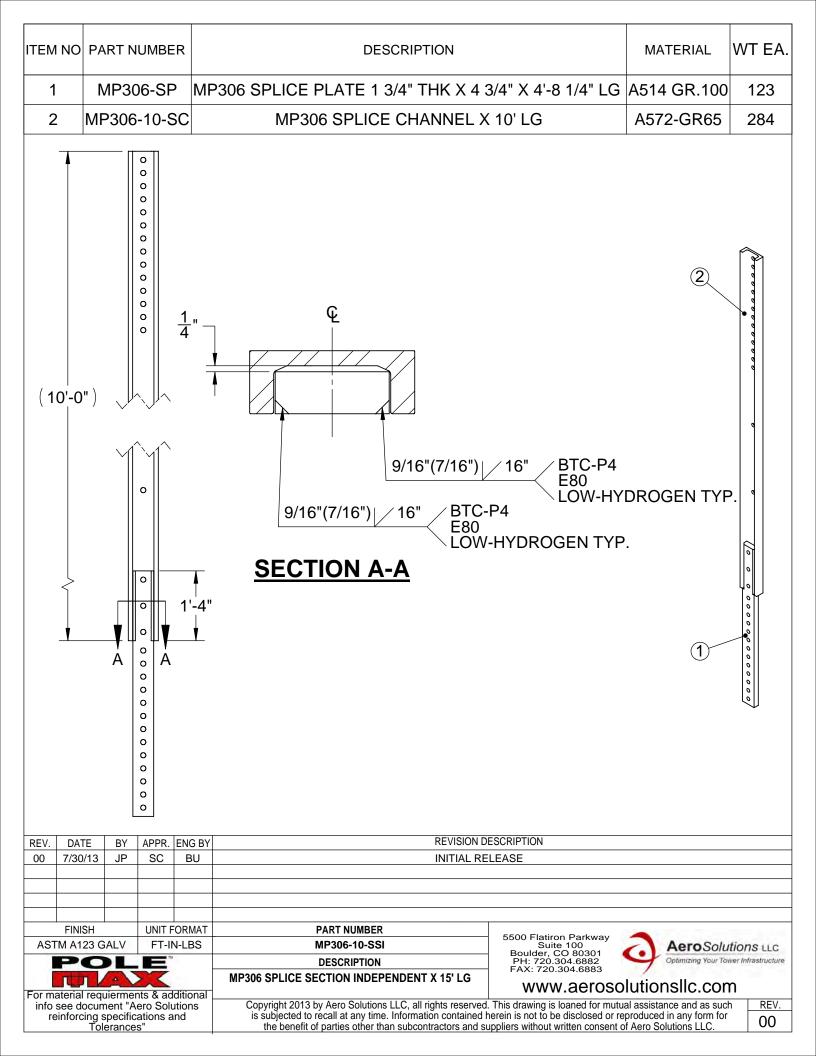
MALOUF ENGINEERING INTERNATIONAL, INC. 17950 PRESTON ROAD SUITE 720 DALLAS, TEXAS 75252–5635 972–783–2578 (fax: 2583) www.maloufengineering.com STRUCTURAL CONSULTANTS © MEI, INC. 2018

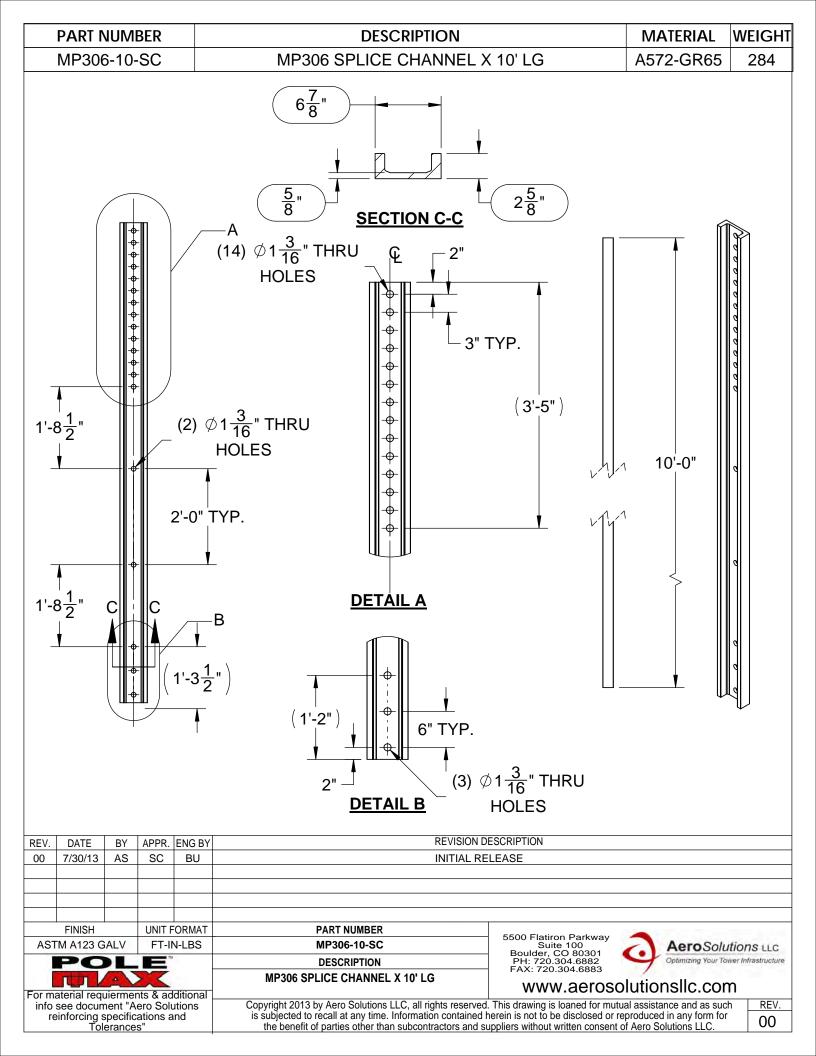
# 100 FT MONOPOLE TMO WINDSOR #CTHA130A

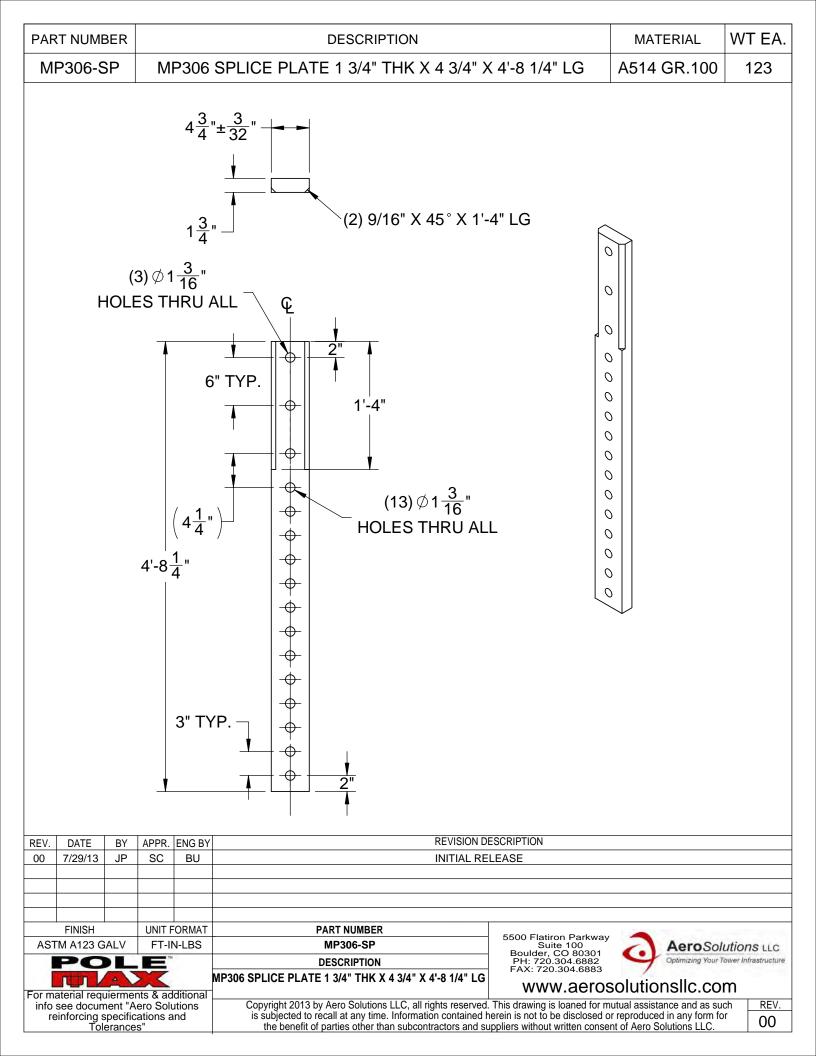
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# CONSTRUCTION WELDING INSPECTION SERVICES INCORPORATED

P.O. Box 673 · Matthews, NC 28106 Phone (704) 560-9755 cwiservice@bellsouth.net

AERO SOLUTIONS	
WINDSOR	-
JF FABRICATORS, LLC 704-454-7224	_
HARRISBURG, NC	
CWI VT-D1-10 Rev. 5	-
	AERO SOLUTIONS WINDSOR JF FABRICATORS, LLC 704-454-7224 HARRISBURG, NC CWI VT-D1-10 Rev. 5

SHOP INS	SPECTION REPORT	S
Report Job Number	Page	1
Inspector Date Governing Code	RYAN FITZGERALD 2/1/22 AWS D1.1	

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All Pre-During-Post Welding Operations Meet AWS D1.1

OBSERVATIONS REPORTED HEREIN ARE INDICATIVE OF CONDITIONS FOUND AT THE EXACT LOCATION AND TIME OF OBSERVATION ONLY. THE ABOVE SERVICES AND REPORT WERE PERFORMED PURSUANT TO THE TERMS AND CONDITIONS OF THE CONTRACT BETWEEN CWI SERVICES INC. AND CLIENT UNDER THE STANDARD OF REASONABLE CARE APPLICABLE TO SUCH FIELD OBSERVATIONS GENERALLY. NO OTHER WARRANTY, GUARANTY, OR REPRESENTATION, EXPRESSED OR IMPLIED, IS INCLUDED OR INTENDED.

Respectfully Submitted,

Construction Welding Inspection Services Inc.

Fitzgerald Ry 06010581 CWI SC1 EXP. 1/1/2024 Inspector



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# WELDER OR WELDING OPERATOR PERFOMANCE QUALIFICATION RECORD (WPQR) (4C, AWS D1.1/D1.1M-15, STRUCTURAL WELDING CODE – STEEL)

Welder Name:	Patricia Ann I	Hernandez	ID No.:	NCDL ****30	06	Stamp No:	PAH
Welding Procedure	Specification No.:	JF-WPS-GM	IAW-G A5.28	Rev.:	0	Date: 5	/22/19
Welding Process:	Gas Metal Arc We	lding (GMAW)		Туре:	Sen	ni-Automatic	

Variables	Actual Values Used In Qualification	Qualification Range
Backing (Yes or No) Material Type	Yes –Carbon Steel (Table 3.1)	Required - Carbon Steel (Table 3.1)
Back Gouge (Yes or No)	Yes	Allowed with or without backing
<b>Base Metal Specification</b>		A construction of the second
Group No.	Table 3.1 Grp II	All AWS Approved (Grp I, II, & III)
Thickness (Plate)	a de la companya de l	
Groove	1" 1G	1/8" through Unlimited
Fillet	NA	1/8" through Unlimited
Thickness (Pipe/Tube)		
Groove	NA	24" and over with backing or backgouge
Fillet	NA	Over 24" diameter
Filler Metal		
Specification No.	A5.28	A5.18 and A5.28
Class	ER80S-1	Any A5.18 and A5.28
Deposited Weld Metal		
Groove	1" 1G	
Fillet	NA	
Weld Position		•
Orientation	1G (Flat)	1F, 1G
Weld Progression	Forehand	Forehand
Gas Type		•
Shielding	92%Ar / 8%O2	Per Manufacture's Recommendation
Backing	NA	NA
<b>Electrical Characteristics</b>		4
Current	DC	Per Manufacture's Recommendation
Polarity	EP	Per Manufacture's Recommendation

	Qual	ification Test Results	
Visual In	spection	Radiogra	ohic Testing
Appearance	Acceptable	Film Identification	NA
Results	Passed	Results	NA
	6	Guided Bend Test	
<b>Type and Figure No.</b> 1G Side (4.16)	Results Pass	Type and Figure No. NA	Results NA
1G Side (4.16)	Pass	NA	NA
		Fillet Weld Test	
Figure No.:	NA	Fillet Size	NA
Fracture Test	NA	Macroetch	NA
Test Conducted by:	Ryan Fitzgerald	Test Number	PAH1G-GMAW
Inspector	CWI 00010681 001 EXP. 1/1/2021	Date	5/22/19

We, the undersigned certify that the statements in this record are correct and that the test welds were prepared, welded, and tested in conformance with the requirements of Clause 4 of AWS D1.1/D1.1M 2015 Structural Welding Code - Steel.

Authorized By:	John Fennell		
Date	5/22/19	Organization:	JF Fabricators



# WELDER OR WELDING OPERATOR PERFOMANCE QUALIFICATION RECORD (WPQR) (4C, AWS D1.1/D1.1M-15, STRUCTURAL WELDING CODE – STEEL)

Welder Name:	David Alan H	lernandez	ID No.:	NCDL ****24	57	Stamp N	No: DAH
Welding Procedure			IAW-G A5.28	Rev.:	0	Date:	01/30/2019
	Gas Metal Arc We		)	Туре:	Ser	ni-Automat	ic

Variables	Actual Values Used In Qualification	Qualification Range
Backing (Yes or No) Material Type	Yes –Carbon Steel (Table 3.1)	Required - Carbon Steel (Table 3.1)
Back Gouge (Yes or No)	Yes	Allowed with or without backing
Base Metal Specification		
Group No.	Table 3.1 Grp II	All AWS Approved (Grp I, II, & III)
Thickness (Plate)		
Groove	1" 2G	1/8" through Unlimited
Fillet	NA	1/8" through Unlimited
Thickness (Pipe/Tube)		
Groove	NA	24" and over with backing or backgouge
Fillet	NA	Over 24" diameter
Filler Metal		
Specification No.	A5.28	A5.18 and A5.28
Class	ER80S-1	Any A5.18 and A5.28
Deposited Weld Metal		1
Groove	1" 2G	
Fillet	NA	
Weld Position		
Orientation	2G (Horizontal)	1F, 1G, 2F, 2G
Weld Progression	Forehand	Forehand
Gas Type		
Shielding	92%Ar/8%O2	Per Manufacture's Recommendation
Backing	NA	NA
<b>Electrical Characteristics</b>		
Current	DC	Per Manufacture's Recommendation
Polarity	EP	Per Manufacture's Recommendation

	Qualification	Test Results	
Visual Ins	spection		bhic Testing
Appearance	Acceptable	Film Identification	NA
Results	Passed	Results	NA
	Guided Bo	end Test	10110
Type and Figure No. 2G Side (4.19)	Results Pass	Type and Figure No. NA	Results NA
2G Side (4.19) 2G Side (4.19)	Pass	NA	NA
	Fillet We	eld Test	
Figure No.:	NA	Fillet Size	NA
Fracture Test	NA	Macroetch	NA
Test Conducted by:	Ryan Fitzgerald	Test Number	DAH2G-GMAW
Inspector	CWI 06010681 001 EXP. 1/1/2021	Date	1/30/19

We, the undersigned certify that the statements in this record are correct and that the test welds were prepared, welded, and tested in conformance with the requirements of Clause 4 of AWS D1.1/D1.1M 2015 Structural Welding Code - Steel.

Authorized By:	John Fennell	
Date	1/30/19	Organization:

JF Fabricators



# WELDER OR WELDING OPERATOR PERFOMANCE QUALIFICATION RECORD (WPQR) (4C, AWS D1.1/D1.1M-15, STRUCTURAL WELDING CODE – STEEL)

Welder Name:	Matthew Benjamin	Styles	ID No.:	NCDL 31	081326	5	Stamp No:	MBS
Welding Procedure	Specification No.:	CSI-W	PS-GMAW-G-WQ		Rev.:	2	Date:	10/3/19
Welding Process:	Gas Meta	Arc Weld	ing (GMAW)		Гуре:		Semi-Auto	omatic

Variables	Actual Values Used In Qualification	Qualification Range
Backing (Yes or No) Material Type	Yes – Base Metal Carbon	With or without backing
Base Metal Specification		
Group No.	Table 3.1 Grp II	All AWS Approved (Grp I, II, & III)
Thickness (Plate)		
Groove	1"	1/8" through Unlimited
Fillet	NA	1/8" through Unlimited
Thickness (Pipe/Tube)		
Groove	NA	24" and over with backing or backgouge
Fillet	NA	Over 24" diameter
Filler Metal		
Specification No.	A5.28	A5.18 and A5.28
Class	ER80S-1	Any A5.18 and A5.28
Deposited Weld Metal		
Groove	CJP	
Fillet	NA	
Weld Position		
Orientation	Horizontal (2G)	1F, 2F, 1G, 2G
Weld Progression	Forehand	Forehand /Push
Gas Type		
Shielding	AR=98% / CO2=2%	Per Manufacturers Recommendation
Backing	NA	
<b>Electrical Characteristics</b>		
Current	Direct (DC)	Per manufacturers recommendation
Polarity	Reverse (EP)	Per manufacturers recommendation

	Qual	lification Test Results	
Visual In	spection	Radiograph	nic Testing
Appearance	Acceptable	Film Identification	NA
Results	Passed	Results	NA
	(	Guided Bend Test	
Type and Figure No.	Results	Type and Figure No.	Results
2G Side (4.21)	Pass	NA	NA
2G Side (4.21)	Pass	NA	NA
		Fillet Weld Test	
Figure No.:	NA	Fillet Size	NA
Fracture Test	NA	Macroetch	NA
Test Conducted by:	John Fennell	Test Number	MBS2G
Inspector	Nyan N Pitzgerald	Date	8/30/16

We, the undersigned certify that the statements in this record are correct and that the test welds were prepared, welded, and tested in conformance with the requirements of Clause 4 of AWS D1.1/D1.1M 2010 Structural Welding Code - Steel.

Authorized By:	John Fennell	
Date	10/3/2019	

JF Fabricators

Organization:



# **American Welding Society®**

# Certifies that Welding Inspector Ryan Fitzgerald

has complied with the requirements of AWS QC1, Standard for AWS Certification of Welding Inspectors

06010581 CERTIFICATE NUMBER

Jan/01/2024 EXPIRATION DATE



AWS PRESIDENT

AWS QUALIFICATION & CERTIFICATION COMMITTEE CHAIR



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

# Mill Test Report

1505 River Rd Cofield, NC 27922 (252) 356-3700



Issuing Date :	07/23/2021	B/L No. : 597695	Load No. : 612583	Our Order No. : 190007/2	Cust. O	rder No. : 7657127
Vehicle No:	11432		Sold To:	KLOECKNER METALS CORP 500 COLONIAL CTR PKWY STE 500	Ship To:	KLOECKNER METALS ALPHARETTA 2005 GRASSLAND PARKWAY
Specification:	1.7500" x 96.00 ASTM A514-186	0" x 480.000" 1 Grade H NUHEAT		ROSWELL, GA 30076		ALPHARETTA, GA 30004

Plate Serial No: 1604949-03-1-01

Marking :

Heat No (	C I	Mn	P	S	Si	Cu	Ni	Gr	Mo	AI(tot)	v	Nb	Ti	N	Ca	В	Sn	Ceq	Pcm	
604949 (	0.17	1.00	0.014	0.003	0.27	0.12	0.43	0.45	0.22	0.027	0.035	5 0.003	0.040	0.0072	0.0018	0.0024	0.017	0.52	0.30	
	-		T		T	ensile Te	est		1		Heat T	reat								
Plate Serial No	Pieces	Tons	Dir.	Vield (psi)	Tensile (psi)	Elong. % in 2*	Elong. % in 8"	R.A. %	Q	uench (°F)	Time (min)	Temper (°F)	Time (min)							

1604949-03-1 1 11.43 H-T 105,600 114,900 37.1 44.2 1665 67 1250 85

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 on rectangular specimens, unless otherwise noted in Specification. For Mexico shipments:nhc-SalesMX@nucor.com Yield by 0.5EUL method unless otherwise specified. Ceq = C+(Mn/6)+{(Cr+Mo+Y)/5}+{(Cr+Mo+Y)/5}+{(Cr+Ni)/15}) Pcm = C+(5/30)+{(Mn/20)+{(Cr/20)+{(Mn/5)+{(Cr/20)+{(Mn/15)+{(Cr+Mo+Y)/5}+{(Cr+Mo+Y)/5}+{(Cr+Ni)/15})}} Method and Manufactured in the USA. ISO 9001:2015 certified. PED 2014/88/EU, 97/23/EC 7/2 Annex 1, Para. 4.3 Compliant. API Q1-1851 DIN 50049 3.1.8/EN 10204 3.1{(2004) 3.18{(1993)/ DIN EN 10204 3.1{(2005) compliant. ABS QA-3624366

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.

7/23/2021 2:00:10 PM

Viscolar an Martala Comparation	Kloeckner Metals Corp – CLT 1300 Exchange Street Charlotte,NC 28208 (704) 394-5999	BL # / Pack Slip $*11K64566$	(11K)	22 05:04 AM Pag KMC Load No:	ge 1 of 1 4008031		
<b>Sold To:</b> 110133 J F Fabricators, LLC 8158 Mountain Shore Dr Sherrills Ford, NC 28673-92 <b>Phone #</b> (704)607-8175	Ship To: 1 J F Fabricators, LLC 7315 Galvan Way Harrisburg, NC 2807 Phone # (704)607-81	5-4300 Freight Prepaid Carrier Kloeckner Me	FOB Delivered Freight Prepaid Carrier Kloeckner Metals Corp - 9				
CUST PO: WINDSOR AERO	<b>Order#</b> 21028749 Ent	ered:MMILLER PVC Size	Pcs	Net Weight			
2 Mill Rolled Plate 5/16 7 Part No MP306-SSI-SP-31 Heat Num: 20A2315 1 FTG		3.625 x 40.125 per dwg	1	13			

All claims for rust or water damage must be initiated within 30 calendar days of receipt of material

	/		- Total Pieces	Gross Wgt	Tare Wgt	Net Wgt
Carrier Signature	Customer Signature	Shipper Signature /Date	1	13	0	13

# 2-01-2022 05:08

# BL - 6456917

Order - 21041032

Heat - 21A3174

blr466

F Fabricators, LLC

1

# Cust. PO - DUVALL PROPERTY 495849

NUCOR STEEL TUSCALOOSA, INC.

ICI

MILL TEST CERTIFICATE Nucor Steel Tuscaloosa. Inc. 1700 HOLT RD N.E. Tuscaloosa. AL 35404-1000 800 800-8204 customerservice@nucortusk.com

Page:1 of 1 Attachment to Material Report PENDING APPROVAL

American Bureau of Shipping, Jeffersonville

oad Numb	ber	Tally	Mill	Order	Number	1.000	PO N	0   L	ine N	0	Pa	rt Num	ber		-	Certi	ficate	Number	r  1	Prepar	ed	
284107	00000	0010237	752 N-192	465-001			NEW-7	65869	5 1							S02375	201-1-	110389C		11/08/3	2021 0	8:12
rade				-	110		5 - 1 - 1			Cu	stome		100							11	1017	
Hot Roll ABS A, 0. Mality P	scription: 1 Plate From .1875 IN x 9 Plan Descr 6 MOD MN: AB	6.000 i ption	:		SA36/M27	70-36 M	OD MN			K SH K	nip TO	ER META		w Orlea RP New		is LA						
Shipped Item	Heat/S		Certifie By	d C	Mn	P	s	Si	Cu	Ni	Cr	Мо	Сь	v	ΓA	Ti	NŻ	B	Ca	Sn	CEV	ACI
110389C	21A3174-	04 ***	21A3174	0.19	0,91	0.012	0.002	0.05	0.17	0.04	0.07	0.014	0.002	0.004	0.026	0.001	0.010	0.0002	0.0018	0.010	0.37	T
Shipped	Certifieg	Heat	c/Slab	Yield	Tensile	el Y/T	EL	ONGATI	ON %	Bend	Hard	0	harpy	Impact	s (ft-	-1bs)			Shear 9	6		Test
Iten	By		nber	ksi	ksi	%	2	0	8"	OK?	HB	Size	nn 1	. 2	3	Av	g	1	2	3	Avg	Тепр
110389C	S110384FTT	214317	4-04 ***	49.2	69.3	71.0	29	.9						1		100						
1I0389C	S110387FTT	21A317	4-04 ***	48.0	68.7	69.9	3 33	.3				4-1							1.1			
110389C	5110384MTT	214317	4-04 ***	45.2	63.9	70.7	7 33	.9				1 1						1-			-	
1102200	S110387MTT	274317	4-04 ***	44.2	62.8	70.4	4 30	.2				1.00				111						

Items: 1 PCS: 6 Weight: 14701.8 LBS

This is an item view ECERT extracted from the original mill certification

Mercury has not come in contact with this product during the manufacturing process nor has any mercury been used by the manufacturing process. Certified in accordance with EN 10204 3.1. No weld repair has been performed on this material. Yield strength is determined by the 0.2% offset method unless otherwise noted. Manufactured under the ABS Quality Assurance Program, Certificate number QA-3737946. We hareby certify that the information herein has been made to the applicable specifications by the EAF process and tested in accordance with the requirements of the ABS rules with satisfactory results. Manufactured to a fully killed fine grain practice. NUTEMPER TEMPER PASSED plate from coil ISO 9001:2015 Registered, PED Certified

We hereby certify that the product described above passed all of the tests required by the specifications.

il Green

Daniel Green - Chief Metallurgist

""" Indicates Heats melted and Manufactured in the U.S.A.

Feature Asserow Corridon Mon. Copy to Far Devision Only Berry Ser 1000 ry Contine Han. Complete Car " without No. A

# 01-27-2022 05:04

BL - 6456607

Order - 21028749

Heat - 20A2315

**J F Fabricators, LLC** 

Cust. PO - WINDSOR AERO

NUCOR STEEL TUSCALOOSA, INC.

MILL TEST CERTIFICATE Nucor Steel Tuscaloosa, Inc. 1700 HOLT KD N.E. Tuscaloosa, AL 35404-1000 800 800-8204 customerservice@nucortusk.com

ber	Tally	Mill	Order	Number		PO NO	Line N	0	Pa	rt Num	ber	_		Certif	Ficate	Number	F	repar	ed	-
	000943120	0 N-184	L63-001			APP-7532	913 1							S94312	001-1-	0H1313D	0	09/08/2	020 10	1:38
		1						Cu	stome	r:										
125 IN x 96. Plan Descri	000 IN x			6-19/M2	70-36 M	DD MN		K Sh K	LOECKN ip TO LOECKN	ER META : ER META				ARETTA	GA					
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			c	Mn	P	S S	Cu	Ni	Cr	Мо	Cb	v	Al	Ti	N2	В	Ca	Sn	CEV	ACI
			0.20	0.86	0.011 0	.004 0.0	0.19	0.05	0.07	0.017	0.002	0.004	0.030	0.001	0.010	0.0001	0.0020	0.007	0.38	
				-	1	LELONCA	TTON %	Rend	Hand	1 0	harny	Tanaci	ts (ft-	-1bs)		1.1	Shear %	6		_
Contrition .	Heat /	Slab	Yield	Tensil	el Y/I	ELUNUA			TIGHT G		cital by	Section on or .					Transition of	<u></u>		Test
Certified By	Heat/	200001011	Yield ksi	Tensil ksi	e 1/1 %	2"	8"	OK?	HB	Size	-	2	3	Av	g	1	2		lvg	Test Temp
	00000 scription: 1 Plate Fron 125 IN x 96. Plan Descr -TRIPLE: AST Numbo 20A2315-	00000000943120 scription: 1 Plate From Coil 125 IN x 96.000 IN x Plan Description: -TRIPLE: ASTM A36/A7 Heat/Slab Number 20A2315-05 ***	00000000943120 N-1843 scription: 1 Plate From Coil 125 IN x 96.000 IN x 480.000 Plan Description: -TRIPLE: ASTM A36/A709-36/AS H Heat/Slab Certifiet Number By 20A2315-05 *** 20A2315	00000000943120 N-184163-001 scription: 1 Plate From Coil 125 IN x 96.000 IN x 480.000 IN Plan Description: -TRIPLE: ASTM A36/A709-36/ASME SA3 H Heat/Slab Certified C Number By 20A2315-05 *** 20A2315 0.20	00000000943120 N-184163-001 scription: 1 Plate From Coil 125 IN x 96.000 IN x 480.000 IN Plan Description: -TRIPLE: ASTM A36/A709-36/ASME SA36-19/M2 1 Heat/Slab Certified C Mn Number By 20A2315-05 *** 20A2315 0.20 0.86	000000000943120         N-184163-001           scription:         1           1 Plate From Coil         1           125 IN x 96.000 IN x 480.000 IN         Plan Description:           -TRIPLE: ASTM A36/A709-36/ASME SA36-19/M270-36 MC           1         Heat/Slab         Certified         C         Mn         P           Number         By         20A2315         0.20         0.86         0.011         C	00000000943120         N-184163-001         APP-7532           scription:         1         Plate From Coil         1           125 IN x 96.000 IN x 480.000 IN         Plan Description:         -           -TRIPLE: ASTM A36/A709-36/ASME SA36-19/M270-36 MOD MN         Mumber         Si           1         Heat/Slab         Certified         C         Mn         P         S         Si           0         20A2315-05 ***         20A2315         0.20         0.86         0.011         0.004         0.0	O0000000943120         N-184163-001         APP-7532913         1           scription:         1         Plate From Coil         1         1         125 IN x 96.000 IN x 480.000 IN         1           Plan Description:	0000000943120         N-184163-001         APP-7532913         1           scription:         Cu         Soc         Soc           1 Plate From Coil         Soc         Soc         Soc           125 IN x 96.000 IN x 480.000 IN         Sh         Sh         Soc           Plan Description:	OQ000000943120         N-184163-001         APP-7532913         1           Scription:         Customen           125 IN x 96.000 IN x 480.000 IN         Sold TO           Plan Description:         Sold TO           -TRIPLE: ASTM A36/A709-36/ASME SA36-19/M270-36 MOD MN         Ship TO           I         Heat/Slab         Certified         C         Mn         P         S Si         Cu         Ni         Cr           0         20A2315-05 ***         20A2315         0.20         0.86         0.011         0.004         0.04         0.19         0.05         0.07	OQUO00000943120         N-184163-001         APP-7532913         1           Scription:         Sold TO:           1 Plate From Coil         KLOECKNER META           125 IN x 96.000 IN x 480.000 IN         Ship TO:           Plan Description:         KLOECKNER META           -TRIPLE: ASTM A36/A709-36/ASME SA36-19/M270-36 MOD MN         Sent TO:           I         Heat/Slab         Certified         C           Mumber         By         Si         Cu         Ni           0         20A2315-05 ***         20A2315         0.20         0.86         0.011         0.04         0.19         0.05         0.07         0.017	O0000000943120         N-184163-001         APP-7532913         1           Scription:         Customer:           1 Plate From Coil         Sold TO:           125 IN x 96.000 IN x 480.000 IN         KLOECKNER METALS Alg           Plan Description:         Ship TO:           -TRIPLE: ASTM A36/A709-36/ASME SA36-19/M270-36 MOD MN         Ship TO:           I         Heat/Slab         Certified           Number         By         C         Mn         P         Si         Cu         Ni         Cr         Mo         Cb           0         20A2315-05 ***         20A2315         0.20         0.86         0.011         0.04         0.19         0.05         0.07         0.017         0.002	Occurrent         Control of the field	Occurrent interview         Provider Number         Provider Number         Provider Number           00000000943120         N-184163-001         APP-7532913         1           Customer:         Sold TO: KLOECKNER METALS Alpharetta GA           scription:         N: 96.000 IN x 480.000 IN         Ship TO: KLOECKNER METALS Alpharetta GA           Plan Description:         KLOECKNER METALS/ALPHARETTA ALPH           -TRIPLE: ASTM A36/A709-36/ASME SA36-19/M270-36 MOD MN         Ship TO: KLOECKNER METALS/ALPHARETTA ALPH           I         Heat/Slab         Certified         C         Mn         P         S         Si         Cu         Ni         Cr         Mo         Cb         V         Al           0         20A2315-05 ***         20A2315         0.20         0.86         0.011         0.004         0.04         0.19         0.05         0.07         0.017         0.002         0.004         0.030	Customer:         Sold TO:           0000000943120         N-184163-001         APP-7532913         I         S94312           Customer:         Sold TO:         KLOECKNER METALS Alpharetta GA         Ship TO:         KLOECKNER METALS/ALPHARETTA ALPHARETTA           125 IN x 96.000 IN x 480.000 IN         Plan Description:         Sold TO:         KLOECKNER METALS/ALPHARETTA ALPHARETTA           -TRIPLE: ASTM A36/A709-36/ASME SA36-19/M270-36 MOD MN         Stip TO:         KLOECKNER METALS/ALPHARETTA ALPHARETTA           1         Heat/Slab         Certified         C         Mn         P         S         Si         Cu         Ni         Cr         Mo         Cb         V         Al         Ti           0         20A2315-05 ***         20A2315         0.20         0.86         0.011         0.04         0.04         0.05         0.07         0.017         0.030         0.001	Customer:         Sold TO:           00000000943120         N-184163-001         APP-7532913         1         S94312001-1-           Customer:         Sold TO:         KLOECKNER METALS Alpharetta GA         Ship TO:         KLOECKNER METALS/ALPHARETTA ALPHARETTA GA           125 IN x 96.000 IN x 480.000 IN         Plan Description:         Sold TO:         KLOECKNER METALS/ALPHARETTA ALPHARETTA GA           7TRIPLE: ASTM A36/A709-36/ASME SA36-19/M270-36 MOD MN         Si Cu         Ni         Cr         Mo         Cb         V         A1         Ti         N2           1         Heat/Slab         Certified         C         Mn         P         S Si         Cu         Ni         Cr         Mo         Cb         V         A1         Ti         N2           0         20A2315-05 ***         20A2315         0.20         0.86         0.011         0.004         0.04         0.19         0.05         0.07         0.017         0.002         0.004         0.010         0.010	Customer:         Sold TO: Sold TO: RLOCKNER METALS Alpharetta GA           Sold TO: RLOCKNER METALS Alpharetta GA         Ship TO: RLOCKNER METALS Alpharetta GA           Plane From Coil 125 IN x 96.000 IN x 480.000 IN Plan Description: -TRIPLE: ASTM A36/A709-36/ASME SA36-19/M270-36 MOD MN         Sold TO: RLOCKNER METALS Alpharetta GA           I Heat/Slab Number         Certified         C         Mn         P         S         Si         Cu         Ni         Cr         Mo         Cb         V         Al         Ti         N2         B           0         20A2315-05 ***         20A2315         0.20         0.86         0.011         0.04         0.19         0.05         0.07         0.017         0.002         0.004         0.001         0.0001	Customer:         Sold TO:         Syd312001-1-0H1313D         Customer:           scription:         1         1         Sold TO:         Sold TO:           1 Plate From Coil         1         KLOECKNER METALS Alpharetta GA         Ship TO:           125 IN x 96.000 IN x 480.000 IN         Ship TO:         KLOECKNER METALS Alpharetta GA         Ship TO:           125 IN x 96.000 IN x 480.000 IN         Ship TO:         KLOECKNER METALS Alpharetta GA         Ship TO:           126 IN x 96.000 IN x 480.000 IN         Ship TO:         KLOECKNER METALS Alpharetta GA         Ship TO:           127 IN x 96.000 IN x 480.000 IN         Ship TO:         KLOECKNER METALS Alpharetta GA         Ship TO:           128 IN x 96.000 IN x 480.000 IN         Ship TO:         KLOECKNER METALS Alpharetta GA         Ship TO:           129 IN x 96.000 IN x 480.000 IN         Ship TO:         KLOECKNER METALS Alpharetta GA         Ship TO:           14 Number         By Ca         Sent TO:         Sent TO:         Sent TO:         Sent TO:	Occurrent         Operation:         Sold TO:         Sold TO:	Customer:         Sold TO: KLOECKNER METALS Alpharetta GA           Sold TO: KLOECKNER METALS Alpharetta GA         Sold TO: KLOECKNER METALS Alpharetta GA           Ship TO: KLOECKNER METALS/ALPHARETTA ALPHARETTA CA           I         Heat/Slab           Certified By         C           Mn         P           Si         Cu           Number         By           Mn         P           Si         Cu           Number         Sold Co           By         Ca           Sold Co         Sold TO: KLOECKNER METALS Alpharetta GA           Ship TO: KLOECKNER METALS/ALPHARETTA ALPHARETTA CA           Sent TO:         Sent TO:

Items: 1 PCS: 4 Weight: 16335.4 LBS

OH1313D SOH1313MTT 20A2315-05 \*\*\* 52.8 70.0 75.4 28.4

Mercury has not come in contact with this product during the manufacturing process nor has any mercury been used by the manufacturing process. Certified in accordance with EN 10204 3.1. No weld repair has been performed on this material. Yield strength is determined by the 0.2% offset method unless otherwise noted. Manufactured to a fully killed fine grain practice. NUTEMPER TEMPER PASSED plate from coll ISO 9001-2015 Registered, PED Certified

We hereby certify that the product described above passed all of the tests required by the specifications. Dulin 1/4 Dr. Qiulin Yu - Metallurgist

"\*\*" indicates Heats melted and Manufactured in the U.S.A.

NUCO

Page:1 of 1

bir466



# LABORATORY TEST CERTIFICATE

Date:	16 <sup>th</sup> September, 2019
Description:	ONESIDE ASSEMBLY TC M20 X 135
	(57MM SLEEVE/SPRING PURPLE)
Part No.:	OSBATC20.135-57
Lot ID:	N0013370

	Component				<b>Test Results</b> (Spec' = Specification; Meas't = Average or lowest measurement)								
Ajax Part No.	Description	Lot ID	Proof Lo	. ,		dness A <u>S 181</u> !	、 ,	Streng	e Tensile th (kN) 54291.1	Tensic	ear Min' on (kN) <u>1 3125</u>		
			Spec'	Result	Sp	ec'	Meas't	Spec'	Meas't	Spec'	Meas't		
			Min'		Min'	Max'		Min'		Min'			
OSBTC20.135B	LPS M20 X 135 ONESIDE TC CONTROL	N0013204/04			23	34	29	203	222	147	150.		
		N0013204/05			23	34	28	203	217	147	150.		
90383	ONESIDE SPLIT WASHER GAL'	S54988/3			23	34	34						
OSSLVMG20-57PURPLE	ONESIDE SLEEVE PURPLE M20 – 57MM LONG	N0013268/100640			34	41	36.	150 <sup>ksi</sup>	comply				
90382	ONESIDE SOLID WASHER GAL'	\$54624/2			23	34	34			ditta data comune de	1. 1920 and 1.		
HSNGL20PURPLE	STRUCTURAL MECH' GAL' NUT COAT PURPLE	N0013269/101032	285	Pass	24	36	35						

Signed by John Geros, Quality Manager

Page 1/1

Ajax Fasteners is regularly audited by NATA (National Association of Testing Authorities, Australia) for compliance with the requirements of ISO/IEC 17025, and has been accredited (Accreditation Number 1202) in the following areas: "13.01 Metal and metal products"; "13.08 Threaded fasteners"; "13.90 Microstructural tests on ferrous materials"; "13.94 Coatings". The results of the measurements appearing in this certificate are traceable to Australian/National standards. This document shall not be reproduced except in full.



41-45 Mills Road P O Box 145 Braeside Victoria Australia 3195 Tel: +613 9586 6666 Fax: +613 9586 6840

# LABORATORY TEST CERTIFICATE

Date:	26 <sup>th</sup> March, 2019
Description:	ONESIDE ASSEMBLY TC M20 X 95
	(18MM SLEEVE/SPRING BLACK)
Part No.:	OSBATC20.95-18
Lot ID:	N0013355

	Component				<b>Test Results</b> (Spec' = Specification; Meas't = Average or lowest measurement)										
Ajax Part No.	Description	Lot ID		oad (kN) 5 4291.2		dness AS 181		Streng	e Tensile gth (kN) 5 4291.1	Tensi	ear Min' on (kN) <u>// 3125</u>				
			Spec'	Result	Sp	ec'	Meas't	Spec'	Meas't	Spec'	Meas't				
			Min'	1	Min'	Max'		Min'		Min'					
OSBTC20.95B	LPS M20 X 95 ONESIDE TC CONTROL	N0012843/03			23	34	31	203	236	147	160				
		N0012843/04		-	23	34	30	203	232	147	160				
		N0012968/14			23	34	31	203	239	147	160				
90383	ONESIDE SPLIT WASHER GAL'	\$54988/3			23	34	34								
OSSLVMG20-18BLACK	ONESIDE SLEEVE BLACK M20 – 18MM LONG	N0013179/100640			34	41	38	150 <sup>ksi</sup>	comply						
90382	ONESIDE SOLID WASHER GAL'	S54624/2	1		23	34	34								
HSNGL20BLACK	STRUCTURAL MECH' GAL' NUT COAT BLACK	N0013180/54573	285	Pass	24	36	31				1				
		N0013180/76549	285	Pass	24	36	27				1				

Signed by John Geros, Quality Manager John Geros

Page 1/1

Ajax Fasteners is regularly audited by NATA (National Association of Testing Authorities, Australia) for compliance with the requirements of ISO/IEC 17025, and has been accredited (Accreditation Number 1202) in the following areas: "13.01 Metal and metal products"; "13.08 Threaded fasteners"; "13.90 Microstructural tests on ferrous materials"; "13.94 Coatings". The results of the measurements appearing in this certificate are traceable to Australian/National standards. This document shall not be reproduced except in full.

kloeckner métais	Clearfort Annals Carp	C1.4c	M. C. J. Provin Hilling (	de andre 1	2 05.09 AM Dad	re 1 of 1
Superior Metals Corporation	1759 Enchaoge Street Charlotte,NC 28208 (704) 394-5999		1116-4569	1-9	AMC Load Ro.	40106.05
Sold To: 110133 J F Fabricators, LLC 8158 Mountain Shore Dr Sherrills Ford, NC 28673-92 Phone # (704)607 8175	Ship To: 1 J F Fabricators 7315 Galvan Way Harrisburg, NC Fhone # (704)60	28075-4300	Vie Our Track FOE Delivered Freight Prepaid Carrier Kloschner Wei Truck # 311716	ele Corp - )	Control # Bill of huding Ship Date	6456975 02/01/22
CUSY PO: WINDSOR ABAD	Order# 21028749	Entered:MMILLER	Size	Pcs	Net Weight	
1 Mill Rolled Plate 1 3/4 Heat Num: N/A 2 FTG	ASTM A514		4.75" X 56.25"	1	133	

	All claims for rust or water	damage must be initiated within 30 calend	lar days of receipt	of material			
		mout	Total Pieces	Gross Wgt	Tare Wgt	Net Wgt	R
Carrier Signature	Customer Signature	Shipper Signature /Date	1	133	0	133	

Ira Svendsgaard & Associates PO Box 1637 Placerville, CA 95667 P 530 647-8225 F 530 647-8229 \*\*\* PACKING LIST \*\*\* ORDER

March 17, 2022 2:52 PM



TOWENG

BILL TOWER ENGINEERING PROFESSIONALS

TO: 326 TRYON ROAD

RALEIGH, NC 27603

Confirmed With	
Customer PO#	VPO-629094
BOL #	

SHIP MWD TO: ATTN: STUART 1260 MAIN STREET WALNUT COVE, NC 27052

Reference #	
Terms	NET 30 DAYS B/L
Freight Charges	PPA

PrePaid Collect 3

3rd Party

	Freight		F.O.B	Ship Via	Tr	acking Numb						
PREPAI	D ADD CI 50	LASS	ISA-DALLAS 2	FED EX PRIORITY TRUCK			03/1	7/2022				
Order Qty	Ship Qty	B/O Qty	Item # / Description		C	Customer Part N	Number	U/M:				
280	280	0	209530TC M20 X 95MM-YELL	OW AJAX TC ONESIDE	BOLT-O	SBATC20.95	-30	EA				
				Carton	Qty:	20	Carton Amt:	14				
			Unit Weight:	1			Ext Weight:	378				
240	240	0	2013548TC M20 X 135MM-BRC	OWN AJAX TC ONESIDE	BOLT-O	SBATC20.13	5-48	EA				
				Carton	Qty:	20	Carton Amt:	12				
			Unit Weight:	2			Ext Weight:	360				
		PPA =	= 215.70									
					EA DE BOLT-OSBATC20.95-30 on Qty: 20 Carton Amt: 14 Ext Weight: 378 EA DE BOLT-OSBATC20.135-48 on Qty: 20 Carton Amt: 12							

THANK YOU FOR PLACING YOUR ORDER WITH US!! UNAUTHORIZED RETURNS WILL NOT BE ACCEPTED!



Tower Engineering Professionals, Inc. 326 Tryon Road Raleigh, NC 27603 (919) 661-6351 jqueen@tepgroup.net

Subject:Construction Certificate of CompletionSite Name:TMO WindsorSite Number:CTHA130ADate:March 21, 2022

This letter certifies that all work performed at TMO site CTHA130A Windsor by Tower Engineering Professionals conforms to the standards and specifications required by the customer as per contract and/or drawings and documentation provided.

If you have any questions, or need additional information, please feel free to contact me at the contact information listed above.

Sincerely,

Jonathan Queen, C.W.I. Sr. Project Manager TEP Design Build



Tower Engineering Professionals, Inc. 326 Tryon Road Raleigh, NC 27603 (919) 661-6351 jqueen@tepgroup.net

# Subject:Cold Galvanization Verification LetterSite Name:TMO WindsorSite Number:CTHA130ADate:March 21, 2022

This letter certifies that approved cold galvanizing compounds were used on the modifications on this tower. Zinga Cold Galvanizing Compound was used which is an approved compound that meets the requirement of containing 95% dry film zinc content.

If you have any questions, or need additional information, please feel free to contact me at the contact information listed above.

Singerely,

in

Gonathan Queen, C.W.I. Senior Project Manager Tower Engineering Professionals, Inc.



# **PROJECT TEAM**

CLIENT: SHELDON FREINCLE NORTHEAST SITE SOLUTIONS SHELDON@NORTHEASTSITESOLUTIONS.COM 570-606-4257

CARRIER: T-MOBILE OWNER: FRONTIER COMMUNICATIONS 17950 PRESTON RD, SUITE 720 DALLAS, TX 75252 MEI CONTACT: KRISHNA MANDA, MS, PE 972-783-2578 X 105 KMANDA@MALOUFENGINEERING.COM

MALOUF ENGINEERING INTERNATIONAL, INC.

STRUCTURAL ENGINEER:

# **PROJECT INFORMATION**

# •••**T**••Mobile•

# **100 FT MONOPOLE TMO WINDSOR #CTHA130A**

**419 BROAD STREET, WINDSOR, CT 06095** LAT: 41-50-45.2 N - LON: 72-38-46.1 W

# DRAWING INDEX

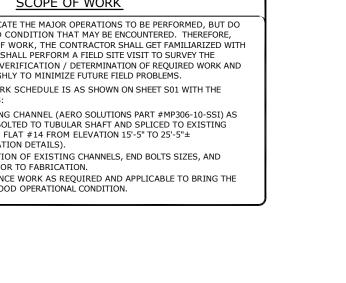
- T01 TITLE SHEET
- T02 TECHNICAL SPECIFICATION NOTES
- T03 TECHNICAL SPECIFICATION NOTES, POST INSPECTION, AND CHECKLIST
- S01 MONOPOLE REINFORCEMENT AND APPURTENANCES SCHEDULE
- S02 MONOPOLE SHAFT REINFORCEMENT DETAILS



# **100 FT MONOPOLE** TMO WINDSOR #CTHA130A

419 BROAD STREET, WINDSOR, CT 06095 LAT: 41-50-45.2 N - LON: 72-38-46.1 W

···**T**··Mobile·



0 10/04/18 ISSUED FOR CONSTRUCTION

REVISIONS

NO. DATE

# Kellogg St

# CODE COMPLIANCE

ALL WORK SHALL BE PERFORMED AND MATERIAL INSTALLED IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE FOLLOWING CODES AS ADOPTED BY THE LOCAL GOVERNING AUTHORITIES

STRUCTURE ELEVATION PHOTO

STRUCTURAL CODE: DESIGN STANDARD: CTBC 2016 / IBC 2012 ANSI/TIA-222-G

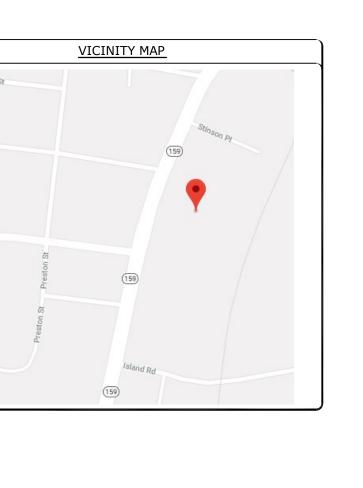
# SCOPE OF WORK

THESE DRAWINGS INDICATE THE MAJOR OPERATIONS TO BE PERFORMED, BUT DO NOT SHOW EVERY FIELD CONDITION THAT MAY BE ENCOUNTERED. THEREFORE, PRIOR TO BEGINNING OF WORK, THE CONTRACTOR SHALL GET FAMILIARIZED WITH THE WORK NOTED AND SHALL PERFORM A FIFLD SITE VISIT TO SURVEY THE STRUCTURE FOR FIELD VERIFICATION / DETERMINATION OF REQUIRED WORK AND THE JOB SITE THOROUGHLY TO MINIMIZE FUTURE FIELD PROBLEMS.

- THE MODIFICATION WORK SCHEDULE IS AS SHOWN ON SHEET S01 WITH THE 2. FOLLOWING MAIN ITEMS:
  - ADD (1) REINFORCING CHANNEL (AERO SOLUTIONS PART #MP306-10-SSI) AS SHOWN, STITCHED BOLTED TO TUBULAR SHAFT AND SPLICED TO EXISTING REINFORCEMENT ON FLAT #14 FROM ELEVATION 15'-5" TO 25'-5"± (REFER TO MODIFICATION DETAILS).
  - FIELD VERIFY LOCATION OF EXISTING CHANNELS, END BOLTS SIZES, AND INTERFERENCES, PRIOR TO FABRICATION.
  - PERFORM MAINTENANCE WORK AS REQUIRED AND APPLICABLE TO BRING THE STRUCTURE INTO GOOD OPERATIONAL CONDITION.

BDB KMM MM

DRAWN ENG'I



# **CONTRACTOR REDLINE DRAWINGS**

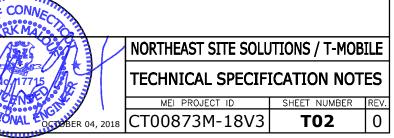
MODIFICATION INSTALLATION WAS REVIEWED FOR CONFORMANCE TO CONTRACT DOCUMENTS.

☑ NO CHANGES FROM ORIGINAL DRAWINGS □ CHANGES AS NOTED

JONATHAN QUEEN, C.W.I. CONSTRUCTION PROJECT MANAGER | TOWER ENGINEERING PROFESSIONALS, INC



GENERAL NOTES	INSTALLATION NOTES	ST	TEEL / FABRICATION NOTES				
. STRUCTURAL MODIFICATIONS HAVE BEEN DESIGNED IN CONFORMANCE WITH THE NOTED BUILDING CODE & STANDARD. MATERIALS, FABRICATION, INSTALLATION, AND ALL OTHER SERVICES PROVIDED BY THE	1. ALL INSTALLATION PROCEDURES, SAFEGUARDS AND MEANS AND METHODS OF CONSTRUCTION ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. ALL WORK SHALL FOLLOW SAFE WORK PRACTICES WITH	1. ALL STEEL FABRICATION AND INSTA EDITION OF THE AMERICAN INSTITUT	LLATION SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST E OF STEEL CONSTRUCTION (AISC) MANUAL AND SPECIFICATIONS				
CONTRACTOR SHALL CONFORM TO THE NOTED CODES / STANDARDS AND THE CONTRACT SPECIFICATIONS. SOURCE DATA REGARDING SUBJECT STRUCTURE HAVE BEEN OBTAINED FROM SUPPLIED / OBTAINED DOCUMENTS. ACTUAL SITE DIMENSIONS SHOULD BE DETERMINED / VERIFIED PRIOR TO FABRICATION OF ANY MATERIAL OR PROVISION FOR FIELD ADAPTATION SHOULD BE MADE. THIS DESIGN IS BEING	APPROPRIATE FALL PROTECTION AND SHALL BE PERFORMED IN ACCORDANCE WITH ANSI/ASSE A10.48 AND ANSI/TIA-322 OR ANSI/TIA1019-A CONSTRUCTION STANDARDS, OSHA REQUIREMENTS, INDUSTRY PRACTICE AND NATE GUIDELINES. RIGGING PLANS SHALL BE PREPARED IN ACCORDANCE WITH NOTED STANDARDS. ALL ERECTION STRESSES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE REVIEWED/PERFORMED BY A COMPETENT PROFESSIONAL EXPERIENCED IN SIMILAR WORK.	2. THESE DRAWINGS SHOW RELATED D PREPARED IN ACCORDANCE WITH AI	FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS". DETAILS BUT ARE NOT SHOP DRAWINGS. SHOP DRAWINGS SHALL BE SC DETAILING REQUIREMENTS. DIMENSIONAL TOLERANCES SHALL BE IN DF STANDARD PRACTICE AND ASTM A7 REQUIREMENTS.				
PROVIDED WITHOUT A CONDITION ASSESSMENT BY THE ENGINEER. CONTRACTOR SHALL PERFORM A COMPLETE CONDITION ASSESSMENT PRIOR TO ORDERING ANY REINFORCING MATERIALS AND NOTIFY ENGINEER OF ANY CONDITION THAT WOULD AFFECT THE DESIGN OR THE WORK SPECIFIED. ANY CHANGES, DISCREPANCIES &/OR MODIFICATIONS THAT MAY BE REQUIRED DUE TO THE EXISTING	<ol> <li>MINIMUM RECOMMENDED WEATHER CONDITION THAT INSURES A SAFE WORKING CONDITION SHOULD BE OBSERVED: WIND SPEED NOT TO EXCEED 10-15 MPH AT GROUND LEVEL, NO THUNDERSTORMS FORECASTED, AND WITH TOWER STEEL TEMPERATURE BETWEEN 20 F &amp; 105 F. FOLLOW ALL APPLICABLE INDUSTRY AND</li> </ol>		OTHERWISE, SHALL MAINTAIN THE EXISTING MEMBER WORK LINES AND				
CONDITIONS SHALL NEED TO BE RESOLVED BEFORE PROCEEDING WITH THE WORK.	OSHA SAFETY GUIDELINES.		ILED ON THESE PLANS SHALL BE DETAILED BY THE STEEL FABRICATOR IN . CONSTRUCTION MANUAL, AISC 360-10 LRFD.				
ALL CONSTRUCTION WORK SHALL BE PERFORMED AND INSTALLED BY A CONTRACTOR WITH MIN. 5 YEARS EXPERIENCE IN SIMILAR WORK. ALL WORK SHALL BE PERFORMED IN A WORKMANLIKE MANNER IN ACCORDANCE WITH ACCEPTED CONSTRUCTION AND INDUSTRY PRACTICE.	<ol> <li>CONTRACTOR SHALL WORK WITHIN THE LIMITS OF THE SITE COMPOUND/ OWNER'S PROPERTY OR LEASE AREA AND APPROVED EASEMENTS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY WORK IS WITHIN THESE BOUNDARIES. ANY WORK OUTSIDE THESE BOUNDARIES SHALL BE APPROVED IN WRITING BY THE LAND OWNER PRIOR TO MOBILIZATION.</li> </ol>	5. ALL WELDING SHALL BE PERFORMED D1.1/D1.1M, "STRUCTURAL WELDING	BY AWS CERTIFIED WELDERS AND BE IN ACCORDANCE WITH AWS CODE-STEEL"(LATEST EDITION).				
CONTRACTOR SHALL PERFORM A SITE VISIT TO CONFIRM RELEVANT EXISTING STRUCTURE DIMENSIONS, PROPOSED REINFORCING DIMENSIONS, CLEARANCES AND DETERMINE ANY INTERFERENCES, SITE CONSTRAINTS, UTILITIES AND ALL OTHER INFORMATION NECESSARY TO PERFORM THE WORK. THE	<ol> <li>FAA / FCC FILING AND LIGHTING MAY BE REQUIRED. ALL GOVERNMENTAL REGULATORY DETERMINATIONS AND FILINGS ARE TO BE COMPLIED WITH AND SHALL BE BY OTHERS.</li> </ol>	ELECTRODES FOR FCAW PROCESS.	DTHERWISE, USE E70XX ELECTRODES FOR SMAW PROCESS AND E7XT-XX				
CONTRACTOR SHALL NOT START FABRICATION OR CONSTRUCTION PRIOR TO PERFORMING THIS SITE VISIT AND VALIDATING THE INFORMATION ON THESE DRAWINGS AND ANY ADDITIONAL INFORMATION REQUIRED TO SUCCESSFULLY PERFORM THE WORK.	<ol> <li>TOWER SHALL BE PROPERLY BRACED AND CARE SHALL BE TAKEN IN THE REMOVAL AND REPLACEMENT OF ANY TOWER MEMBER IN ACCORDANCE WITH RECOGNIZED INDUSTRY STANDARDS AND PROCEDURES.</li> </ol>	7. FOR WELDING ON MONOPOLE SHAFT APPROPRIATE FO THE WELDING POS	S, USE 80 KSI LOW HYDROGEN ELECTRODES. ELECTRODES SHALL BE ITION REQUIRED TO MAKE THE JOINT.				
MATERIAL QUANTITIES AND LENGTH ARE FOR BIDDING PURPOSE - CONTRACTOR TO BE RESPONSIBLE FOR REQUIRED QUANTITIES AND PROPER FIT AND CLEARANCES OF NEW MATERIAL.	<ol> <li>ALL PRECAUTIONS AND EFFORTS SHALL BE TAKEN TO INSURE THE STRUCTURE STABILITY DURING THE MODIFICATIONS WORK. BRACING MEMBERS / FRAMES WITH CAPACITY MATCHING MEMBERS BEING WORKED</li> </ol>	8. COOLING EFFECTS OF THE WELDED I HOT MATERIAL AND CONTRACTION OF	MATERIAL SHALL BE TAKEN INTO CONSIDERATION (I.E. EXPANSION OF F COOLED MATERIAL).				
<ul> <li>ALL MATERIAL SPECIFIED MUST BE NEW AND FREE OF ANY DEFECTS. ANY MATERIAL SUBSTITUTIONS, INCLUDING BUT NOT LIMITED TO ALTERED SIZES AND/OR STRENGTHS, MUST BE APPROVED BY THE OWNER AND ENGINEER IN WRITING PRIOR TO FABRICATION / ORDERING / INSTALLATION. CONTRACTOR SHALL</li> </ul>	ON SHALL BE REQUIRED AND USED. CONTRACTOR IS RESPONSIBLE FOR ALL TEMPORARY LOCAL AND GLOBAL SHORING OF THE STRUCTURE AND ALL SHORING OF SURROUNDING BUILDINGS, PADS, AND OTHER OUTDOOR SITE OBSTRUCTIONS.	AS APPLICABLE FOR FULL WEATHER	ED GALVANIZED PER ASTM A123, ASTM A153/A153M, OR ASTM A653 G90 PROTECTION. FOR HIGH STRENGTH STEEL FASTENERS WHERE 'ERMITTED, DACROMET F1136 GRADE 3 COATING (OR ENGINEER SED				
PROVIDE DOCUMENTATION TO ENGINEER FOR DETERMINING IF SUBSTITUTE IS SUITABLE FOR USE AND MEETS THE ORIGINAL DESIGN CRITERIA. DIFFERENCES FROM THE ORIGINAL DESIGN, INCLUDING MAINTENANCE, REPAIR AND REPLACEMENT, SHALL BE NOTED. COSTS ASSOCIATED WITH THE	7. PRIOR TO INSTALLATION, INSURE THAT POLE HAS PROPERLY ASSEMBLED POLE SECTIONS - DOES NOT EXHIBIT SIGNIFICANT VISIBLE AIR GAPS (IN EXCESS OF 3/16 IN ON OPPOSITE FLATS). A MINIMUM JACKING FORCE OF 10,000 LBS MUST THEN BE APPLIED TO EACH SIDE OF THE POLE DURING JACKING. THIS FORCE	10. PRIOR TO GALVANIZING, ALL FABRIC	CATED STEEL SHALL BE THOROUGHLY SHOP INSPECTED AND QUANTITIES QUALITY CONTROL AND INSPECTION METHODS.				
SUBSTITUTION (INCLUDING REVIEW & RE-DESIGN COSTS) SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.	MAY BE APPLIED USING MIN. TWO (2) SIX TON COME-A-LONGS UNDER THE FULL EFFORT OF ONE MAN EACH. JACKING FORCES OF 12,000LBS MINIMUM MAY BE REQUIRED.	11. MATERIAL MAY BE CUT BY SHEARING, GREATER THAN 1/2" THICKNESS SHA	, SAWING, OR CUTTING WITH A ROUTER OR GAS CUT. MATERIAL ALL NOT BE SHEARED.				
ALL PERMITS, LICENSES, APPROVALS, AND OTHER REQUIREMENTS FOR CONSTRUCTION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR OR AS DESIGNATED BY THE OWNER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AMPLE NOTICE TO BUILDING INSPECTION DEPARTMENT TO SCHEDULE ANY REQUIRED INSPECTIONS.	8. IN AREAS TO BE MODIFIED, CONTRACTOR IS RESPONSIBLE FOR TEMPORARILY REMOVING ANY COAXES, T-BRACKETS, MOUNTS, OR ANY OTHER APPURTENANCES INTERFERING WITH THE WORK. ALL APPURTENANCES MUST BE REPLACED AND/OR RESTORED TO ORIGINAL LOCATION. AS APPLICABLE, RE-WORK ATTACHMENTS THAT REQUIRE MODIFICATIONS TO PROPERLY FIT MODIFIED MEMBERS. THESE CUSTOMIZATIONS ARE TO BE	SHEARED EDGES OF THICK PLATES S	OTH, AND FREE FROM EXCESSIVE BURRS AND RAGGED BREAKS. SHALL BE PLANED TO A DEPTH OF 1/4". RE-ENTRANT CUTS SHALL BE FILLETED BY DRILLING PRIOR TO CUTTING.				
CONTRACTOR, INCLUDING LOWER TIER CONTRACTORS, SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR MEANS AND METHODS OF CONSTRUCTION AND OF JOB SITE CONDITIONS DURING	DESIGNED BY OTHERS AND MAINTAIN ORIGINAL CAPACITY. ANY CARRIER DOWNTIME MUST BE COORDINATED WITH THE OWNER / CARRIER IN WRITING.	13. ALL BOLTS, WASHERS AND ANCO LO AS NOTED BELOW.	CKNUTS SHALL BE NEW DOMESTIC HIGH STRENGTH GALVANIZED BOLT				
THE CONSTRUCTION WORK, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY AND INCLUDING BUT NOT LIMITED TO, ERECTION PLANS, RIGGING PLANS, CLIMBING PLANS, AND RESCUE PLANS. THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS.	9. CAULKING SHALL BE PROVIDED AROUND PERIMETER OF ALL MODIFICATION MEMBERS TO ENSURE COMPLETE SEAL BETWEEN EXISTING STRUCTURE AND REINFORCING MEMBERS IN FULL CONTACT WITH EXISTING STEEL. SEALANT IS TO BE EXTERIOR GRADE, PAINTABLE SILICONE CAULKING AS MANUFACTURED BY DOW OR		URAL MEMBERS WILL REQUIRE LOCKING DEVICES TO BE INSTALLED IN RDS/SPECIFICATIONS.				
CONTRACTOR IS RESPONSIBLE FOR ENGAGING A MODIFICATION INSPECTOR AT THE TIME OF AWARD TO COORDINATE AN INSPECTION SCHEDULE AND ENSURE PROPER DOCUMENTATION IS RETAINED TURDULULT IN PROPERTY FOUNDATION MORE ADDRESS INSPECTION INSPECTOR IN CONCEPTER DOLLARS	EQUIVALENT. 10. THE CLIMBING FACILITIES, SAFETY CLIMB AND ALL ASSOCIATED HARDWARE SHALL NOT BE IMPEDED OR		OLES SHALL NOT BE MORE THAN 1/16" LARGER THAN THE NOMINAL BOL E CUT THROUGH STEEL, UNLESS OTHERWISE NOTED.				
THROUGHOUT THE PROJECT. FOUNDATION WORK REQUIRES INSPECTION PRIOR TO THE CONCRETE POUR AND MAY INVOLVE A SEPARATE INSPECTION VISIT. REFER TO TABLE FOR MODIFICATION INSPECTION CHECKLIST. CONTACT ENGINEER TO OBTAIN PRICING TO COMPLETE FINAL AND/OR FOUNDATION INSPECTION SERVICES, IF NOT ALREADY COORDINATED WITH THE OWNER / CARRIER. INSTALLATION OF	MODIFIED WITHOUT THE WRITTEN CONSENT OF THE OWNER. 11. ALL SAFETY EQUIPMENT SHALL BE INSPECTED ACCORDING TO ALL OSHA AND INDUSTRY SCHEDULED INTERVALS AND ALL INSPECTIONS SHALL BE DOCUMENTED PER APPLICABLE CODES AND STANDARDS.	<ol> <li>ANY BOLT REMOVED FROM EXISTING TOWER STRUCTURE SHALL BE REPLACED WITH A NEW DOMESTIC ASTN A325 HIGH STRENGTH BOLT OF EQUAL DIAMETER SIZE AND OF SUFFICIENT LENGTH TO EXCLUDE THE THREADS, UNLESS NOTED OTHERWISE.</li> <li>ALL BOLT HOLES EDGE DISTANCES SHALL BE 1 1/2" UNLESS OTHERWISE NOTED.</li> <li>FIELD PUNCH / DRILL HOLES AS REQUIRED FOR ACCURATE FIT OF MODIFICATION MEMBER.</li> <li>NEW STEEL MATERIAL SHALL BE DOMESTIC AND SHALL CONFORM TO THE FOLLOWING STEEL SPECIFICATIONS UNLESS NOTED OTHERWISE:</li> </ol>					
PROPOSED LOADING PRIOR TO COMPLETION OF POST MODIFICATION INSPECTION IS PROHIBITED WITHOUT PRIOR APPROVAL FROM OWNER AND ENGINEER OF RECORD.	12. FASTENERS SHALL BE INSTALLED IN PROPERLY ALIGNED HOLES. ALL BOLTS AT EVERY CONNECTION SHALL BE INSTALLED SNUG FIT UNTIL THE SECTION IS FULLY COMPACTED, AND THEN TIGHTENED ADDITIONALLY IN						
0. EXISTING STRUCTURE IS ASSUMED TO BE IN GOOD CONDITION AND FREE FROM STRUCTURAL DEFECTS. AT MINIMUM ANSI/TIA-222 RECOMMENDED INSPECTIONS AND ALL MAINTENANCE TYPE & DEFICIENCY	ACCORDANCE WITH THE AISC "TURN-OF-THE-NUT" METHOD. TIGHTENING SHALL PROGRESS SYSTEMATICALLY.						
REPAIR WORK IS ASSUMED COMPLETED. INSPECTION & MAINTENANCE OF NEW REINFORCEMENTS SHALL BE IMPLEMENTED SUCH AS TO AVOID ANY DETERIORATION OR CORROSION OF REINFORCEMENT.	<ol> <li>BOLT LENGTHS UP TO AND INCLUDING FOUR DIAMETERS SHALL BE TENSIONED 1/3 TURN BEYOND SNUG FIT. BOLT LENGTHS OVER 4 DIAMETERS SHALL BE 1/2 TURN BEYOND SNUG TIGHT.</li> </ol>						
<ol> <li>REFER TO OWNER REQUIREMENTS FOR NEW MEMBERS PAINT, OTHERWISE PAINT NEW MEMBERS WITH A FINISH COAT OF ACRYLIC PAINT TO MATCH EXISTING PAINT AT THAT ELEVATION.</li> </ol>	14. NO WELDING, TORCH CUTTING, OR OPEN FLAME OF ANY TYPE IS PERMITTED ON THIS STRUCTURE AND ON	MATERIAL	ASTM SPECS				
<ol> <li>ALL EXISTING PAINTED GALVANIZED SURFACES DAMAGED DURING REHAB WORK SHALL BE WIRE BRUSHED CLEAN, REPAIRED BY COLD GALVANIZING BRUSH APPLIED PAINT (ZINGA OR EQUAL), AND REPAINTED TO</li> </ol>	THIS CONSTRUCTION SITE UNLESS DIRECTLY SPECIFIED WITHIN THESE DRAWINGS. 15. ALL MANUFACTURERS HARDWARE AND ASSEMBLY INSTRUCTIONS SHALL BE FOLLOWED. DEVIATION FROM	U-BOLTS	A193 B7, A449 OR SAE J429 (GR. 5 - 1/2" DIA. & GR. 8 - 5/8" DIA.)				
MATCH THE EXISTING FINISH (AS APPLICABLE).	THE INSTRUCTIONS IS UNACCEPTABLE AND REQUIRES WRITTEN APPROVAL FROM THE ENGINEER.	BOLTS - 1/2" DIA. & GREATER	A490				
COMPONENTS SPECIFIED	16. FOR ANY STEEL MEI 30R CUTTING HAS B	BOLTS - 1/2" DIA.	SAE J429 GRADE 5 TYPE X				
ALL PRE-FAB PARTS SHALL BE AS CALLED FOR ON PLANS AND AS MANUFACTURED BY AERO SOLUTIONS LLC,	GALVANIZING BRUS EXISTING FINISH (A CONTRACT DOCUMENTS.	BOLTS - 3/8" DIA.	A307 OR SAE J429 GRADE 5				
(720)304-6882, HTTPS://WWW.AEROSOLUTIONSLLC.COM OR APPROVED EQUAL. INSTALL AS PER MANUFACTURER'S RECOMMENDATIONS.	17. UPON COMPLETION	CHANNELS	A572 GRADE 65				
ALL BOLTS SHALL BE AS CALLED FOR ON PLANS AND AS MANUFACTURED BY AJAX FASTENERS,	MATERIALS NOT RE X NO CHANGES FROM ORIGINAL DRAWINGS OWNER REPRESENT/ CHANGES AS NOTED	SPLICE PLATE - M306 CHANNEL	A514 GRADE 100				
(530)647-8225, HTTPS://WWW.AJAXFAST.COM.AU OR APPROVED EQUAL. INSTALL AS PER MANUFACTURER'S RECOMMENDATIONS.	JONATHAN QUEEN, C.W.I.						
	CONSTRUCTION PROJECT MANAGER   TOWER ENGINEERING PROFESSIONALS, INC.						
		THE CONNE					
ENGINEERING INTERNATIONAL, INC. 17950 PRESTON ROAD SUITE 720			NORTHEAST SITE SOLUTIONS / T-I				
17950 PRESTON ROAD SUITE 720 DALLAS, TEXAS 75252-5635 972-783-2578 (fax: 2583) DALLAS, TEXAS 75252-5635		*/	TECHNICAL SPECIFICATION N				
www.maloufengineering.com 419 BROAD STREET, WINDSOR, C	.1 08095		MEI PROJECT ID SHEET NUMB				
CTURAL CONSULTANTS © MEI, INC. 2018 LAT: 41-50-45.2 N - LON: 72-38	-46.1 W	BDB KMM MM DRAWNENG'D.APP'D.	TO2				



# BOLT TIGHTENING PROCEDURE

1. TIGHTEN BOLTS BY AISC "TURN OF THE NUT" METHOD USING THE CHART BELOW: BOLT LENGTHS UP TO AND INCLUDING FOUR DIAMETERS:

+ 1/3 TURN BEYOND SNUG TIGHT BOLT LENGTHS OVER FOUR AND UP TO EIGHT DIAMETERS:

+ 1/2 TURN BEYOND SNUG TIGHT

2. ALL ONE-SIDED BOLTS SHALL BE TIGHTENED IN ACCORDANCE WITH MANUFACTURER RECOMMENDATIONS

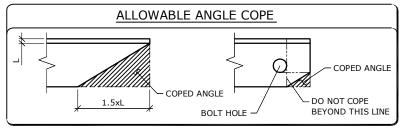
3. SPLICE BOLTS SUBJECT TO DIRECT TENSION SHALL BE INSTALLED AND TIGHTENED AS PER SECTION 8(D)(1) OF THE AISC MANUAL OF STEEL CONSTRUCTION. THE INSTALLATION PROCEDURE IS AS FOLLOWS:

"FASTENERS SHALL BE INSTALLED IN PROPERLY ALIGNED HOLES AND BE TIGHTENED BY ONE OF THE METHODS DESCRIBED IN SUBSECTION 8(D)(1) THROUGH 8(D)(4).

### 8(D)(1) TURN-OF-THE-NUT TIGHTENING:

BOLTS SHALL BE INSTALLED IN ALL HOLES OF THE CONNECTION AND BROUGHT TO A SNUG TIGHT CONDITION. SNUG TIGHT IS DEFINED AS THE TIGHTNESS THAT EXISTS WHEN THE PLIES OF A JOINT ARE IN FIRM CONTACT. THIS MAY BE OBTAINED BY A FEW IMPACTS OF AN IMPACT WRENCH OR THE FULL EFFORT OF A MAN USING AN ORDINARY SPUD WRENCH. SNUG TIGHTENING SHALL PROGRESS SYSTEMATICALLY...UNTIL ALL THE BOLTS ARE SIMULTANEOUSLY SNUG TIGHT AND THE CONNECTION IS FULLY COMPACTED. FOLLOWING THIS INITIAL OPERATION, ALL BOLTS IN THE CONNECTION SHALL BE TIGHTENED FURTHER BY THE APPLICABLE AMOUNT OF ROTATION SPECIFIED ABOVE. DURING THE TIGHTENING OPERATION, THERE SHALL BE NO ROTATION OF THE PART NOT TURNED BY THE WRENCH. TIGHTENING SHALL PROGRESS





1. ALL DIMENSIONS REPRESENTED IN THE ABOVE TABLES ARE AISC MINIMUM REQUIREMENTS. CONTRACTOR SHALL VERIFY EXISTING CONDITIONS IN FIELD AND NOTIFY ENGINEER IF DISTANCES ARE LESS THAN THOSE PROVIDED.

2. THE DIMENSIONS PROVIDED ARE MINIMUM REQUIREMENTS. ACTUAL DIMENSIONS OR PROPOSED MEMBERS WITHIN THESE DRAWINGS MAY VARY FROM THE AISC MINIMUM REQUIREMENTS.

 USUAL GAGES FOR ANGLES IN INCHES

 LEG
 8
 7
 6
 5
 4
 3 1/2
 3
 2 1/2
 2
 1 3/4
 1 1/2
 1 3/8
 1 1/4
 1

 9
 4 1/2
 4
 3 1/2
 3
 2 1/2
 2
 1 3/4
 1 1/8
 1
 7/8
 3/4
 5/8

 91
 3
 2 1/2
 2 1/4
 2

#### POST-MODIFICATION INSPECTION NOTES

# GENERAL

THE POST-MODIFICATION INSPECTION (PMI) IS A VISUAL INSPECTION OF TOWER MODIFICATIONS AND A REVIEW OF CONSTRUCTION INSPECTIONS AND OTHER REPORTS TO ENSURE THE INSTALLATION WAS PERFORMED IN ACCORDANCE WITH THE MODIFICATION DESIGN DRAWINGS BY THE ENGINEER OF RECORD (EOR).

ALL PMI'S SHALL BE CONDUCTED BY A QUALIFIED TOWER INSPECTION VENDOR (QTIV) THAT IS APPROVED TO PERFORM ELEVATED WORK AND HAS QUALIFIED RELATED EXPERIENCE.

TO ENSURE THAT THE REQUIREMENTS OF THE PMI ARE MET, IT IS VITAL THAT THE GENERAL CONTRACTOR (GC) AND THE PMI INSPECTOR BEGIN COMMUNICATING AND COORDINATING AS SOON AS APPROVAL IS RECEIVED TO DEVELOP A SCHEDULE TO CONDUCT ON-SITE INSPECTIONS.

# **GENERAL CONTRACTOR**

THE GC IS REQUIRED TO, AT A MINIMUM:

- REVIEW THE REQUIREMENTS OF THE PMI CHECKLIST
   WORK WITH THE PMI INSPECTOR TO DEVELOP A SCHEDULE TO CONDUCT ON-SITE PMI INSPECTIONS, INCLUDING FOUNDATION INSPECTIONS.
- BETTER UNDERSTAND ALL INSPECTION AND TESTING REQUIREMENTS

THE GC SHALL PERFORM AND RECORD THE TEST AND INSPECTION RESULTS IN ACCORDANCE WITH THE REQUIREMENTS OF THE PMI CHECKLIST.

# RECOMMENDATIONS

THE FOLLOWING RECOMMENDATIONS AND SUGGESTIONS ARE OFFERED TO ENHANCE THE EFFICIENCY AND EFFECTIVENESS OF DELIVERING A PMI REPORT:

- IT IS SUGGESTED THAT THE GC PROVIDE A MINIMUM OF 5 BUSINESS DAYS NOTICE, PREFERABLY 10, TO THE PMI INSPECTOR AS TO WHEN THE SITE WILL BE READY FOR THE MI TO BE CONDUCTED.
- IT MAY BE BENEFICIAL TO INSTALL ALL TOWER MODIFICATIONS PRIOR TO CONDUCTING THE FOUNDATION INSPECTIONS TO ALLOW FOUNDATION AND MI INSPECTION(S) TO COMMENCE WITH ONE SITE VISIT.
- WHEN POSSIBLE, IT IS PREFERRED TO HAVE THE GC AND PMI INSPECTOR ON-SITE DURING THE PMI TO HAVE ANY DEFICIENCIES CORRECTED DURING THE INITIAL PMI. THEREFORE, THE GC MAY CHOOSE TO COORDINATE THE PMI CAREFULLY TO ENDURE ALL CONSTRUCTION FACILITIES ARE AT THEIR DISPOSAL WHEN THE PMI INSPECTOR IS ON SITE.

# CORRECTION OF FAILING PMI'S

IF THE POST-MODIFICATION INSTALLATION WOULD FAIL THE PMI ("FAILED MI"), THE GC SHALL WORK 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 PMI.

 OR, WITH OWNER'S APPROVAL, THE GC MAY WORK WITH THE EOR TO RE-ANALYZE THE MODIFICATION/REINFORCEMENT USING THE AS-BUILT CONDITION

## **REQUIRED PHOTOS**

BETWEEN THE GC AND THE PMI INSPECTOR THE FOLLOWING PHOTOGRAPHS, AT A MINIMUM, ARE TO BE TAKEN AND INCLUDED IN THE PMI REPORT:

• PRE-CONSTRUCTION GENERAL SITE CONDITION

- •• PHOTOGRAPHS DURING THE REINFORCEMENT MODIFICATION CONSTRUCTION.
- •• RAW MATERIALS
- PHOTOS OF ALL CRITICAL DETAILS
- •• FOUNDATION MODIFICATIONS
- •• WELD PREPARATION
- BOLT INSTALLATION AND TORQUE
   FINAL INSTALLED CONDITION
- FINAL INSTALLED CONDITION
   SURFACE COATING REPAIR

POST CONSTRUCTION PHOTOGRAPHS

FINAL IN-FIELD CONDITION



NO CHANGES FROM ORIGINAL DRAWINGS CHANGES AS NOTED

JONATHAN QUEEN, C.W.I.

CONSTRUCTION PROJECT MANAGER | TOWER ENGINEERING PROFESSIONALS, INC.

NO. DATE

0 10/04/18 ISSUED FOR CONSTRUCTION

REVISIONS

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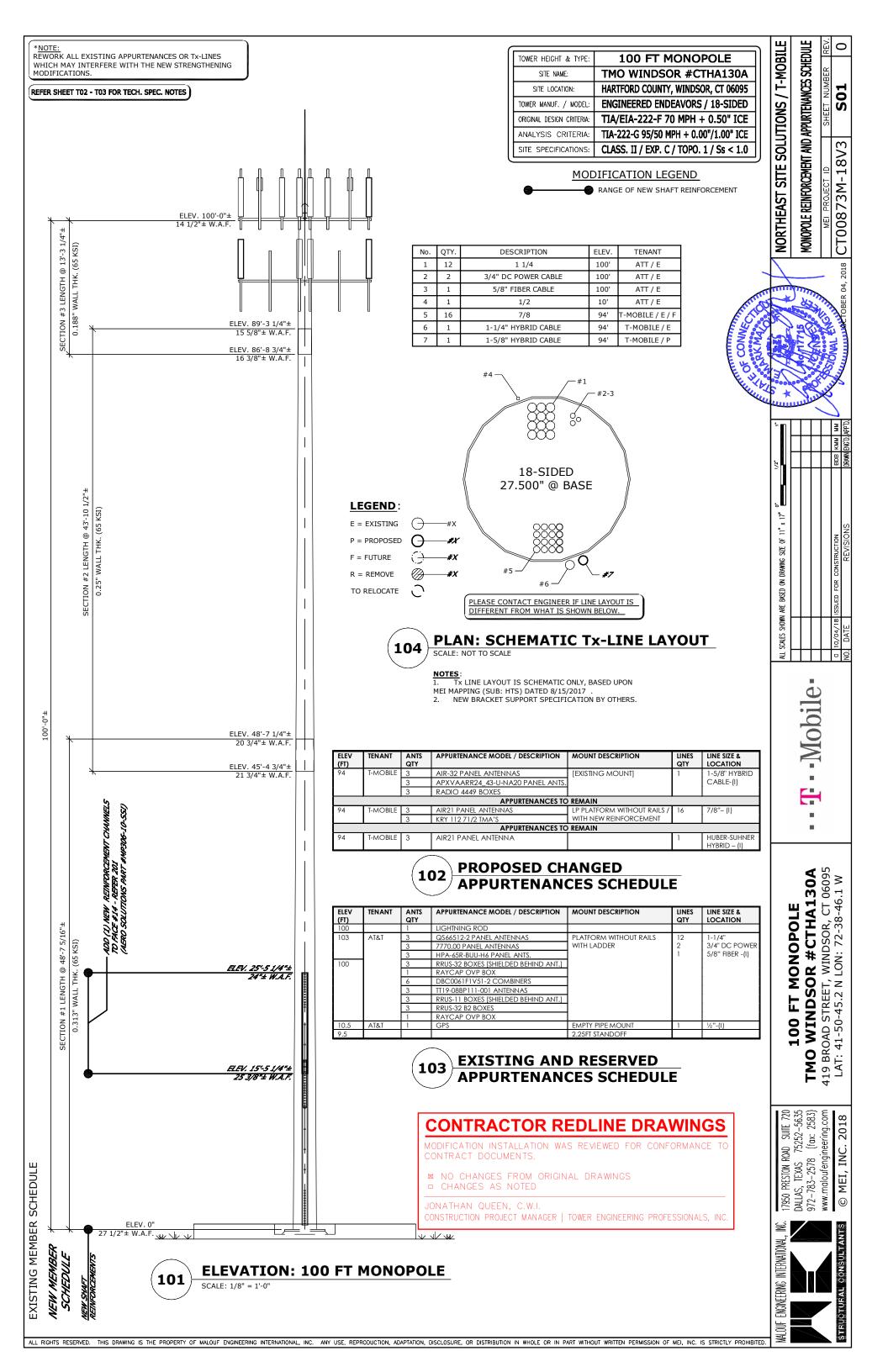
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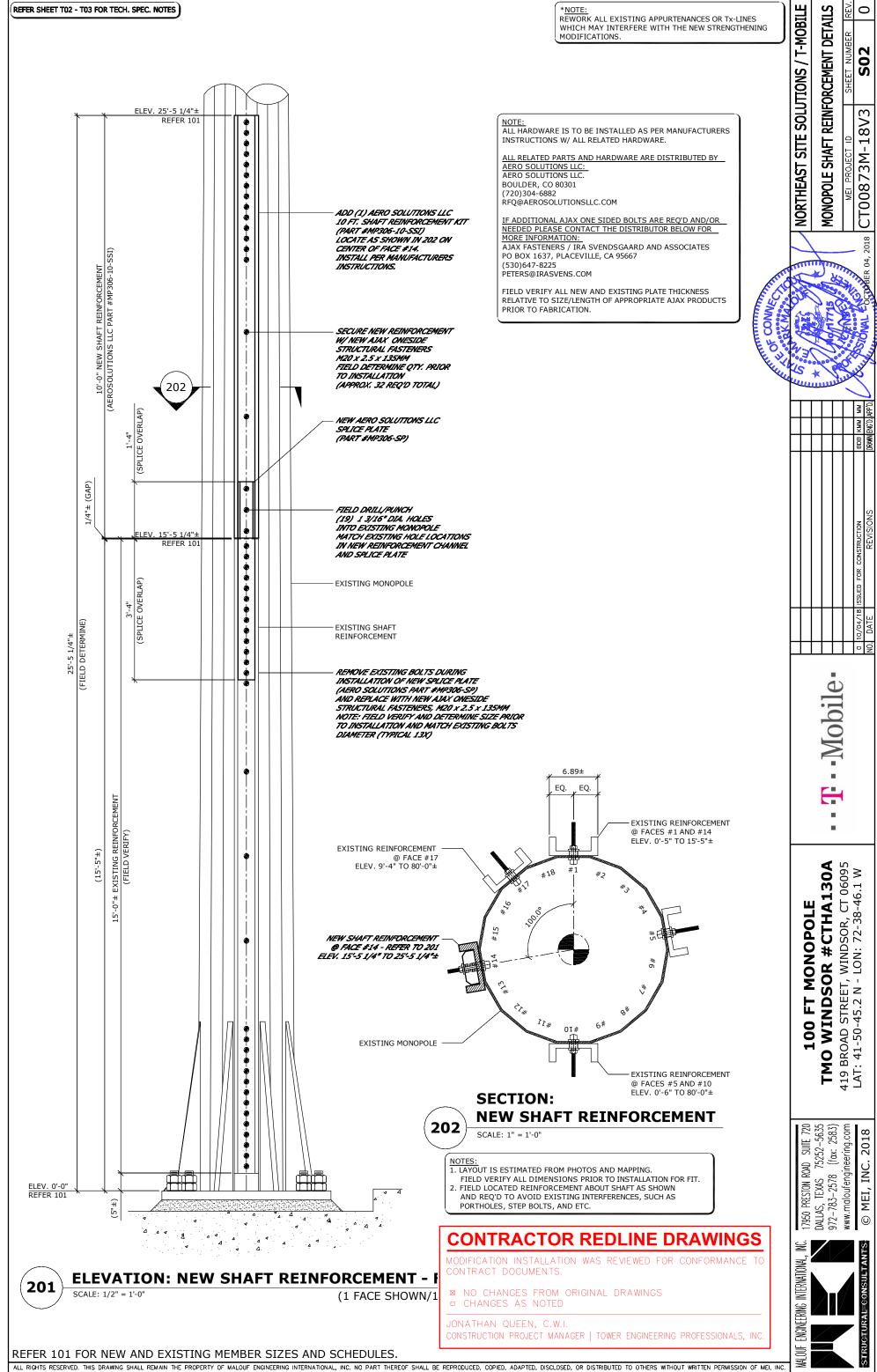
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# EVEREST

SITE NAME:Windsor COSITE ID:701776ADDRESS:419 Broad Street, Windsor, CTFCC ID:N/A

For Access or Leasing Call: (844) 282-7748 NO TRESPASSING

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Beyond this point: Radio frequency fields at this site may exceed FCC rules for human exposure.

For your safety, obey all posted signs and site guidelines for working in radio frequency environments.

eccordance with Federal Communications Commission rules on radio quency emissions 47 CFR 1.1307(b)





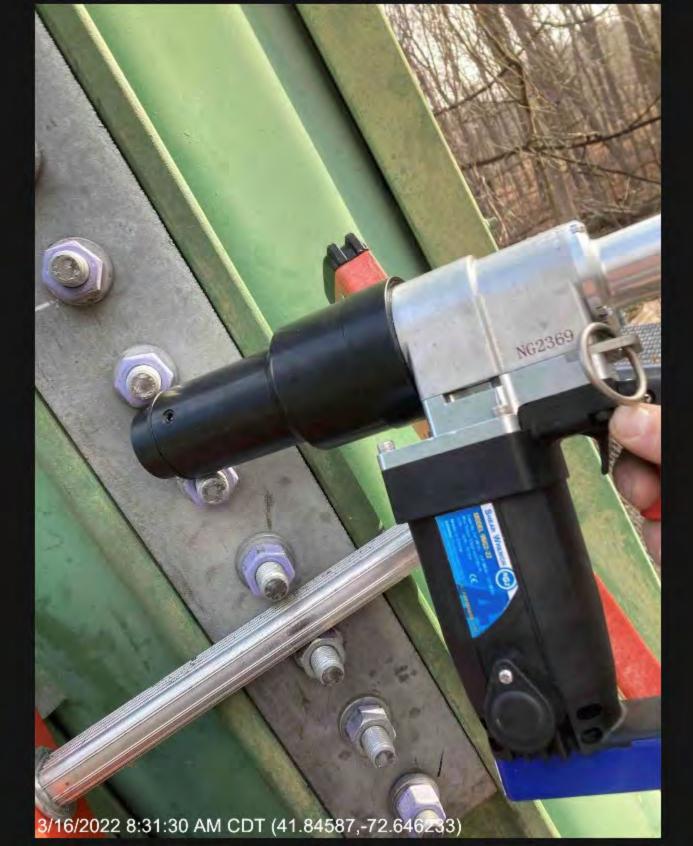














# WEATHERSHIEL DIRT& STAIN-BLOCKING PAINT& PRIMER

**ADVANCED** 

**ALL WEATHER** 

PROTECTION

※ 1 \*

SHIELDS AGAINST CRACKING, PEELING, BLISTERING & FADING

SATINADO Para exteriores

29.5 FL OZ (1<sup>27</sup>/<sub>32</sub> U.S. PT)

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Protección contra agrietamiento, descascaramiento, ampollas y decoloración | Proporciona un recubrimiento resistente al mono y als el



872 mL BEFORE COLORANT IS ADD

PROVIDES

COATING

MILDEW- & ALGAE-

RESISTANT



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3/15/2022 2:12:15 PM GDT (41.845971, -72.646205)