
From: Carolyn Seeley <cseeley@empiretelecomm.com>
Sent: Monday, March 30, 2020 3:00 PM
To: CSC-DL Siting Council
Subject: RE: Council Extension Letter for EM-AT&T-043-160520 (Prestige Park Road, East Hartford)

Good Afternoon,
Please see attached Post Mod Inspection Report. Please let me know if you need anything else.

Thank you,
Carolyn Seeley
Site Acquisition Supervisor

16 Esquire Road | Billerica, MA 01862
Mobile: 339-234-8397
Email: cseeley@empiretelecomm.com
Website: www.EmpireTelecomm.com

Disclaimer: This E-Mail is intended only for the use of the individual or entity to which it is addressed, and may contain information that is privileged, confidential and exempt from disclosure under applicable law. If you have received this communication in error, please do not distribute it and delete the original message. Unless expressly stated in this e-mail, nothing in this message or any attachment should be construed as a digital or electronic signature.



TEP
326 Tryon Rd.
Raleigh, NC 27603

(919) 661-6351
(919) 661-6350
68504

TOWER-POST MODIFICATION SPECIAL INSPECTION SS TOWER

**EHFR Prestige Park
302473**



PREPARED FOR:



PREPARED BY:

**Evan Stanfield
Project Assistant
Tower Engineering Professionals**

DATE:

March 24, 2020





CLIENT:	<u>American Tower Corporation</u>	DATE AT SITE:	<u>Wednesday, March 18, 2020</u>
SITE NAME:	<u>EHFR Prestige Park</u>	ATC PROJECT#:	<u>OAA745293</u>
SITE NUMBER:	<u>302473</u>	TOWER TYPE:	<u>SS TOWER</u>
ADDRESS:	<u>310 Prestige Park Road</u> <u>East Hartford, CT 06108</u>	TOWER HEIGHT:	<u>150'</u>
LEAD:	<u>Hannah Childers, CWI</u>	WEATHER:	<u>Sunny 54 degrees, wind 4mph</u>
		SUPPORT:	<u>None</u>

PROJECT SUMMARY:

Subject: **TOWER-POST MODIFICATION SPECIAL INSPECTION**

Location: 310 Prestige Park Road
East Hartford, CT 06108
Lat: 41.78833333 °N Long: 72.60055556 °W

Structure: **SS TOWER**

Purpose: The purpose of this special inspection report is to ensure that the proposed construction and or construction activities have been completed and undertaken per design and meet all required Codes, Specifications, and Guidelines.

PARTICIPATION PERSONNEL

ATC Representatives: Ian Culbert
Construction Manager
10 Presidential Way, Woburn, MA 01801
(781) 926-7805

Engineer of Record: Eshe Kaushal Modi, P.E.
Structural Engineer
American Tower Corporation
3500 Regency Parkway, Suite 100, Cary, NC 27518
(919) 466-5307

General Contractor: Ryan Hubert
Project Manager
Structural Components
(207) 450-2369

SUPPLEMENTAL INFORMATION

Appendix A - Special Inspection Checklist



SI REPORT CHECKLIST

CLIENT:	American Tower Corporation	DATE AT SITE:	Wednesday, March 18, 2020
SITE NAME:	EHFR Prestige Park	ATC PROJECT#:	OAA745293
SITE NUMBER:	302473	TOWER TYPE:	SS TOWER
ADDRESS:	310 Prestige Park Road East Hartford, CT 06108	TOWER HEIGHT:	150'
LEAD:	Hannah Childers, CWI	WEATHER:	Sunny 54 degrees, wind 4mph
		SUPPORT:	None

PROJECT

Subject: **TOWER-POST MODIFICATION SPECIAL INSPECTION**

Structure: **SS TOWER**


Inspection Approvals:

(Inspector to initial inspection approvals below)

TOWER-POST MODIFICATION SI	
H.C.	Fit-up of materials
H.C.	Material grade, shape, fabrication, placement
H.C.	Verification of proper material coating
H.C.	Structural weld verification
H.C.	Structural bolting / Expansion bolting verification
N/A	Guy tension verification
H.C.	Full installation verifications per design

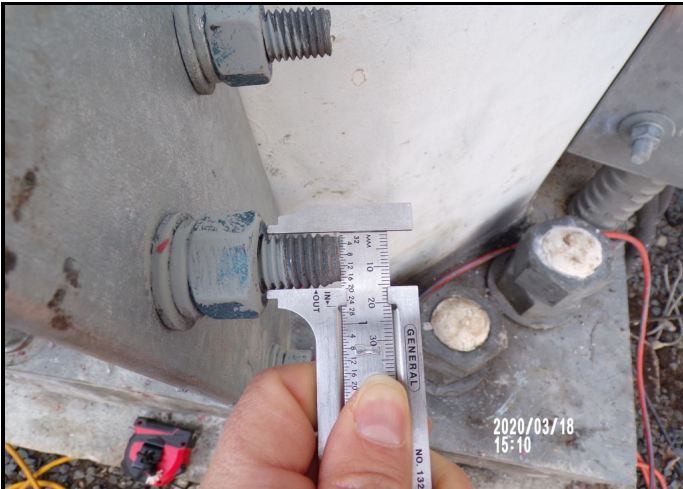
**Passing MI Report
3/26/2020
Hannah Childers, CWI**

Passing Report
 Passing as Noted Report
 Failing Report



Kevin R. Arnett
26 Mar 2020
Engineer Seal

CLIENT:	American Tower Corporation	DATE AT SITE:	Wednesday, March 18, 2020
SITE NAME:	EHFR Prestige Park	ATC PROJECT#:	OAA745293
SITE NUMBER:	302473	TOWER TYPE:	SS TOWER
ADDRESS:	310 Prestige Park Road	TOWER HEIGHT:	150'
	East Hartford, CT 06108	WEATHER:	Sunny 54 degrees, wind 4mph
LEAD:	Hannah Childers, CWI	SUPPORT:	None



DYWIDAG bar installation

A-2 thru A-3a

New DYWIDAG bars were installed to the tower from an elevation of -7.5-ft. to 22.5-ft. This was completed in accordance with the modification drawings dated April 17, 2019, except as noted.

Note:

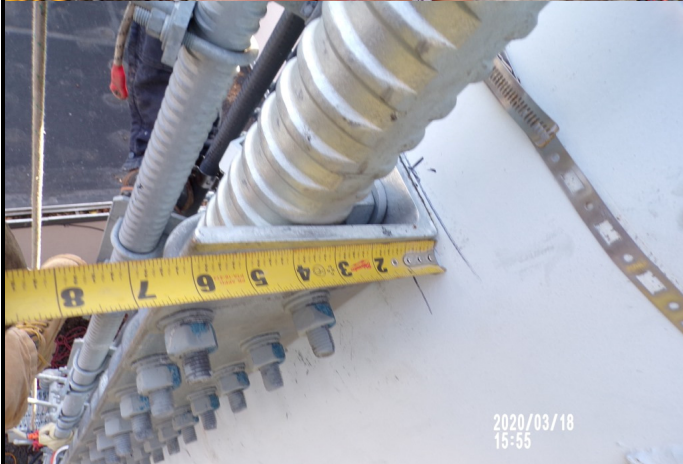
The spacing of brackets around portholes exceeds the 30-in. specified maximum.

DYWIDAG bars are offset on flats 4 & 10 due to portholes.

The top of the new DYWIDAG rods measures 21'-11" rather than 22'-6" as specified.

Blind bolts have been cut at the flat 11 plate weldment behind the DYWIDAG bar.

These issues were approved by the engineer of record. Please see the end of this report for correspondence.



CLIENT:	American Tower Corporation	DATE AT SITE:	Wednesday, March 18, 2020
SITE NAME:	EHFR Prestige Park	ATC PROJECT#:	OAA745293
SITE NUMBER:	302473	TOWER TYPE:	SS TOWER
ADDRESS:	310 Prestige Park Road	TOWER HEIGHT:	150'
	East Hartford, CT 06108	WEATHER:	Sunny 54 degrees, wind 4mph
LEAD:	Hannah Childers, CWI	SUPPORT:	None

Reinforcement plate installation

A-4 thru A-4b

New reinforcement plates were installed to the tower from an elevation of 90-ft to 120-ft. This was completed in accordance with the modification drawings dated April 17, 2019, except as noted. All issues were approved by the engineer of record.

Plate 1 on flats 1, 7, & 10 are installed from 89'-8.5" to 109'-2.5". Plate 1 on flat 4 is installed from 90'-1" to 106'-6". Shims are installed to offset the horizontal tower seam weld. A 1/16" deep gouge was observed on a flat plate.



Flange bolt replacement

A-1

Existing flange bolts from 90-ft to 120-ft were replaced with new A490 flange bolts.



CLIENT:	American Tower Corporation	DATE AT SITE:	Wednesday, March 18, 2020
SITE NAME:	EHFR Prestige Park	ATC PROJECT#:	OAA745293
SITE NUMBER:	302473	TOWER TYPE:	SS TOWER
ADDRESS:	310 Prestige Park Road	TOWER HEIGHT:	150'
	East Hartford, CT 06108	WEATHER:	Sunny 54 degrees, wind 4mph
LEAD:	Hannah Childers, CWI	SUPPORT:	None

APPENDIX A SI Checklist

Inspection Item	Description	Inspection Testing Required	Responsibility	SI Review Required	Inspection Frequency
GENERAL CONTRACTOR	<p>GENERAL CONTRACTOR The General Contractor is required to contact the SI Inspector as soon as received notification of the SI checklists.</p> <p>The General Contractor is required to provide the SI Inspector with the SI checklists and to address the SI checklists as soon as received notification of the SI checklists.</p> <p>The General Contractor is required to provide the SI Inspector with the SI checklists and to address the SI checklists as soon as received notification of the SI checklists.</p>				
MODIFICATION INSPECTOR NOTES	<p>The SI Inspector is required to contact the General Contractor and SI Inspector as soon as received notification of the SI checklists.</p> <p>The SI Inspector is required to contact the General Contractor and SI Inspector as soon as received notification of the SI checklists.</p> <p>The SI Inspector is required to contact the General Contractor and SI Inspector as soon as received notification of the SI checklists.</p>				
SPECIAL INSPECTOR CHECKLIST					
GENERAL CONTRACTOR					
MODIFICATION INSPECTOR NOTES					
CONCRETE FOUNDATION & WALLS	<p>Documentation and test records for all concrete work shall be provided to the SI Inspector as soon as received notification of the SI checklists.</p> <p>Documentation and test records for all concrete work shall be provided to the SI Inspector as soon as received notification of the SI checklists.</p> <p>Documentation and test records for all concrete work shall be provided to the SI Inspector as soon as received notification of the SI checklists.</p>	<input type="checkbox"/>	GC/TA	<input type="checkbox"/>	<input type="checkbox"/>
STEEL CONNECTIONS	<p>Documentation and test records for all steel connections shall be provided to the SI Inspector as soon as received notification of the SI checklists.</p> <p>Documentation and test records for all steel connections shall be provided to the SI Inspector as soon as received notification of the SI checklists.</p> <p>Documentation and test records for all steel connections shall be provided to the SI Inspector as soon as received notification of the SI checklists.</p>	<input type="checkbox"/>	SI	<input type="checkbox"/>	<input type="checkbox"/>
FOUNDATION	<p>Documentation and test records for all foundation work shall be provided to the SI Inspector as soon as received notification of the SI checklists.</p> <p>Documentation and test records for all foundation work shall be provided to the SI Inspector as soon as received notification of the SI checklists.</p> <p>Documentation and test records for all foundation work shall be provided to the SI Inspector as soon as received notification of the SI checklists.</p>	<input type="checkbox"/>	GC/TA	<input type="checkbox"/>	<input type="checkbox"/>



Authorized by "TOR"
Apr 17 2019 4:52 PM
cosign

ATC SITE NUMBER: 302473
ATC SITE NAME: EHFR - PRESTIGE PARK
CONNECTICUT
SITE ADDRESS: 310 Prestige Park Road
EAST HARTFORD, CT 06108

APRIL 17 2019 4:52 PM
36561
HANNAH CHILDERS
REGISTERED PROFESSIONAL ENGINEER
STATE OF CONNECTICUT

PROJECT NUMBER: 302473
SHEET NUMBER: SIC
0



Ensure all relevant checklist items are addressed within report submittals

MATERIAL TEST REPORT (MTR)

TEST REPORT

WORK ORDER LOT NUMBER
F95413 4171810
 SALES ORDER / RLS
109875 / 1

ArcelorMittal Cleveland Inc.
 3060 Eggers Ave
 Cleveland, OH 44105



SOLD TO 000523-000
OLYMPIC STEEL
 C/O Julie Edwards

PO# 116149

CUSTOMER P.O. 323345/3	CUSTOMER PART 306584-17	QUANTITY 46,270 LBS	COILS 1	LADING NO 03016510	SHIPMENT DATE 08/14/2018					
SPECIFICATION 0.5000 Min -0.0000/ +0.0220 X 60.0000 + 1.5000 ME(IN) ID 30.0/30.0 OD 60.0/ 66.4 (IN) CL WT 36000/48000 (LBS) Hot Band Prime High Strength Low Alloy Inclusion Shape Contro Painted agricultural equipment EXP										
CERTIFICATION REQUIREMENTS ASTM A 1018 16a (09/01/2016) HSLAS-F Gr50 Lim A for conversion to A572 Gr50										
Chemical (Weight%)										
C	Mn	P	S	Si	Cu	Ni	Cr	Mo	Sn	Al
0.07	1.16	0.017	0.002	0.02	0.04	0.02	0.05	0.01	0.002	0.045
V	Cb	N	B	Ti	Sb	Ca				
0.003	0.042	0.0051	<.0001	0.016	0.001	0.0026				
Origin - Made and Melted in USA										
Mechanical										
987909	T-Yld PSI 63200	T-Ten PSI 80300	T-Elong 35							
This Test Report shall not be reproduced except in full without the written approval of this laboratory. Test results are prepared in accordance with DIN EN 10204:2005 Type 3.1. Test results marked with an asterisk(*) were provided by a 3rd party accredited laboratory.										

Margaret M Krolkowski

Margaret Krolkowski
 QA Manager

I certify that the material listed herein has been inspected and tested in accordance with the methods prescribed in the governing specifications and based upon the results of such inspection and testing had been approved for conformance to the specifications.



CERTIFIED MATERIAL TEST REPORT

US-ML-ST PAUL
1678 RED ROCK ROAD
SAINT PAUL, MN 55119
USA

CUSTOMER SHIP TO DYWIDAG SYSTEMS INTL USA INC 320 MARMON DR BOLINGBROOK,IL 60440-3078 USA		CUSTOMER BILL TO DYWIDAG SYSTEMS INTL USA INC 320 MARMON DR BOLINGBROOK,IL 60440-3078 USA		GRADE GR80DED	SHAPE / SIZE Continuous Thread Bar / 63M LH	DOCUMENT ID: 0000029878
SALES ORDER 7358635/000010		CUSTOMER MATERIAL N° B63W06010 A		LENGTH 60'04"	WEIGHT 44,419 LB	HEAT / BATCH 62149329/02
CUSTOMER PURCHASE ORDER NUMBER 493108			BILL OF LADING 1332-0000069523	DATE 04/19/2019		
SPECIFICATION / DATE or REVISION						

CHEMICAL COMPOSITION												
C %	Mn %	P %	S %	Si %	Cu %	Ni %	Cr %	Mo %	Sn %	V %	Nb %	
0.37	1.39	0.012	0.023	0.25	0.24	0.12	0.19	0.018	0.027	0.054	0.002	

MECHANICAL PROPERTIES												
YS PSI		YS MPa		UTS PSI		UTS MPa		G/L inch		Elong. %		
81936		565		122656		846		8.000		6.20		

MECHANICAL PROPERTIES												
lb/f												
16.900												

COMMENTS / NOTES

Material 100% melted and rolled in the USA. Manufacturing processes for this steel, which may include scrap melted in an electric arc furnace and hot rolling, have been performed at Gerdau St. Paul Mill, 1678 Red Rock Road, Saint Paul, Minnesota, USA. All product produced from strand cast billets. Silicon killed (deoxidized) steel. No weld repairmen performed. Steel not exposed to mercury or any liquid alloy which is liquid at ambient temperatures during processing or while in Gerdau St. Paul Mills possession. Any modification to this certification as provided by Gerdau-St. Paul Mill without the expressed written consent of Gerdau St. Paul Mill negates the validity of this test report. This report shall not be reproduced except in full, without the expressed written consent of Gerdau St. Paul Mill. Gerdau St. Paul Mill is not responsible for the inability of this material to meet specific applications.

The above figures are certified chemical and physical test records as contained in the permanent records of company. We certify that these data are correct and in compliance with specified requirements. This material, including the billets, was melted and manufactured in the USA. CMTR complies with EN 10204 3.1.

Bhaskar
BHASKAR YALAMANCHILI
QUALITY DIRECTOR

Alea
ALEA BRANDENBURG
QUALITY ASSURANCE MGR.

Phone: (409) 267-1071 Email: Bhaskar.Yalamanchili@gerdau.com

Phone: (651) 731-5662 Email: Alea.Brandenburg@gerdau.com

DYWIDAG-SYSTEMS INTERNATIONAL



SHIP-TO ADDRESS:

Metro Site Fabricators, LLC
 Email invoices: acallahan@metrositellc.com
 180 Industrial Park Blvd
 COMMERCE, GA 30529
 Contact: Scott Ledford, Christy~A/P
 Phone No.:

Dywidag Systems International USA, Inc.

DSI - North Central Division
 320 Marmon Drive
 Bolingbrook, IL. 60440-0951
 Phone No: 630-739-1100
 Fax No.: 630-739-5517
 E-Mail: dsiamerica@dsiamerica.com

Job No.	J130585 - Metrosite Bars # 20 grade 80
Department	PTE25
Shipment Method	Customer Pick Up
Carrier	Customer Pickup
Your Reference:	metrosite # 20 grade 80 PO16479
External Document No.	

Ship Ticket ST490244

Order No. **CO155186**
 Customer No. C004013
 Contact Mauro Barbosa
 Document Date June 18, 2019
 Shipment Date June 18, 2019
 Page No. 1

Pos.	Quantity	Unit	Description	Item No.	Location	Backorder
20	80	pieces	#20(63MM) THREADBAR® x 30' GRADE 80	B63W CUT	NC	0

Net Weight: 40,080.00 lbs
 Gross Weight: 40,080.00 lbs

act. delivery date: _____

Packing Slip



For All Things Fastening.

From:
888.859.6060
Allfasteners Cleveland
959 Lake Road
Medina OH 44256

Shipment: 29836

From Warehouse: 10

Bill To: 8251

Angie Callahan
Metro Site Fabricators LLC
585 Pritchett Road
Lula GA 30529
UNITED STATES

Ship To: (1)

Metro Site Fabricators LLC
180 Industrial Park Blvd
Commerce GA 30529
UNITED STATES

Order Contact:

Ship Contact:

706 335 7045

Reference:

Pickup Date	Order	Cust PO	Ship Via	Carrier	Weight	Packages		
7/10/2019	S000024382	16613			252.48	1		
CO Num	Line/Release	Item	U/M	Qty Ordered	Qty Backordered	Qty Shipped	Package ID	Picklist Id
S000024382	1- 0	2NG2068	EA	96.000	0.000	96.000	1	31035
Description:								
M20 x 68 Grip Length NexGen2™ Structural Bolt Assembly Magni 24/Box								
S000024382	2- 0	2NG2212	EA	36.000	0.000	36.000	1	31035
Description:								
M20 x 212 Grip Length NexGen2™ Structural Bolt Assembly Magni 10/Box								

ALL ITEMS MUST BE CHECKED BEFORE UNLOADING. ANY DISCREPANCIES MUST BE REPORTED WITHIN 7 DAYS.

Certification Report

July 2019

Metro Site Fabricators LLC

PO: 16613

SO: 24382

New York

69 Orchard Street
Ramsey, New Jersey 07446
Tel 800 577 3171
Fax 201 783 8840

Cleveland

959 Lake Road
Medina, Ohio 44256
Tel 888 859 6060
Fax 440 232 6062

Los Angeles

5450 W 83rd Street
Los Angeles, California 90045
Tel 310 410 5007
Fax 866 553 7702

Nebraska

806 8th Street
Gothenburg, Nebraska 69138
Tel 855 330 2210
Fax 308 537 3500



Product Certificate of Conformance

AF Lot #: 8973		Part #: 2NG2068									
Lot Number	Component Part Number	Description	Test Results								
			Proof Load (Mpa)		Hardness (HRC)				Wedge Tensile Test (psi)		
			Spec	Sample	Spec	Max	A	B	Spec	Sample	
Min	Sample	Min	Max	A	B	Min	A	B			
22581	2NG20135A490M	M20 x 135 NexGen2™ Structural Bolt			33	38	Pass	Pass	150000	Pass	Pass
41002	2HHNM2025G2HM	M20-2.50 Heavy Hex Nut Grade 2H	1165	Pass	24	36	Pass	Pass			
770749	14SLS134M	1 3/4" Shear Sleeve			24	33	Pass	Pass			
54179	2NG25WH	M20 NexGen2™ Collapsible Split Washer			23	34	Pass	Pass			
51974	2NG2CWM	M20 Solid Collar Washer			23	34	Pass	Pass			



Product Certificate of Conformance

AF Lot #: 8265		Part #: 2NG2212									
Lot Number	Component Part Number	Description	Test Results								
			Proof Load (Mpa)		Hardness (HRC)				Wedge Tensile Test (psi)		
			Spec	Sample	Spec	Max	A	B	Spec	Sample	
Min	Sample	Min	Max	A	B	Min	A	B			
25417	2NG20250A490M	M20 x 250 NexGen2™ Structural Bolt			33	38	Pass	Pass	150000	Pass	Pass
41002	2HHNM2025G2HM	M20-2.50 Heavy Hex Nut Grade 2H	1165	Pass	24	36	Pass	Pass			
794353	14SLS400M	4" Shear Sleeve			24	33	Pass	Pass			
54179	2NG25WH	M20 NexGen2™ Collapsible Split Washer			23	34	Pass	Pass			
51974	2NG2CWM	M20 Solid Collar Washer			23	34	Pass	Pass			

New York
 69 Orchard Street
 Ramsey, New Jersey 07446
 Tel 800 577 3171
 Fax 201 783 8840

Cleveland
 959 Lake Road
 Medina, Ohio 44256
 Tel 888 859 6060
 Fax 440 232 6062

Los Angeles
 5450 W 83rd Street
 Los Angeles, California 90045
 Tel 310 410 5007
 Fax 866 553 7702

Nebraska
 806 8th Street
 Gothenburg, Nebraska 69138
 Tel 855 330 2210
 Fax 308 537 3500

MILL TEST CERTIFICATE

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

Load Number	Tally	Mill Order Number	PO NO Line NO	Part Number	Certificate Number	Prepared
T225508	00000000875595	N-175355-001	ATL-7417876 01		S87559501-1	08/21/2019 05:51
Grade			Customer:			
Order Description: Hot Roll Plate A57265T3, 1.0000 IN x 96.000 IN x 240.000 IN			Sold TO: KLOECKNER METALS SUWANEE GA			
Quality Plan Description: A572-65 .50 CEV: ASTM A572-65 T3-07			Ship TO: KloECKner SUWANEE GA			
			Sent TO:			

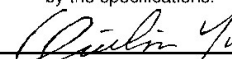
Shipped Item	Heat/Slab Number	Certified By	C	Mn	P	S	Si	Cu	Ni	Cr	Mo	Cb	V	Al	Ti	N2	B	Ca	Sn	CEV	ACI
9H1304DA	B9U4932-04 ***	B9U4932	0.20	1.37	0.011	0.004	0.03	0.14	0.05	0.06	0.020	0.036	0.056	0.024	0.001	0.008	0.0002	0.0016		0.47	
9H1305DA	B9U4932-03 ***	B9U4932	0.20	1.37	0.011	0.004	0.03	0.14	0.05	0.06	0.020	0.036	0.056	0.024	0.001	0.008	0.0002	0.0016		0.47	

Shipped Item	Certified By	Heat/Slab Number	Yield ksi	Tensile ksi	Y/T %	ELONGATION %		Bend OK?	Hard HB	Charpy Impacts (ft-lbs)				Shear %			Test Temp						
						2"	8"			Size mm	1	2	3	Avg	1	2		3	Avg				
9H1304DA	S9H1306FTT	B9U4932-04 ***	73.7	93.6	78.7	35.5																	
9H1304DA	S9H1307FTT	B9U4932-04 ***	73.3	93.6	78.3	38.0																	
9H1305DA	S9H1306FTT	B9U4932-03 ***	73.7	93.6	78.7	35.5																	
9H1305DA	S9H1307FTT	B9U4932-03 ***	73.3	93.6	78.3	38.0																	

Items: 2 PCS: 2 Weight: 13068 LBS

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. ISO 9001:2015 Registered, PED Certified

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


 Dr. Quilin Yu - Metallurgist

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

08-22-2019 06:14
 Metro Site Fabricators LLC
 Cust. PO - 16795

Load - 3392685

BL - 3339658

Heat - B9U4932

Order - 17698415

blr466



Certification Report
January 2020

Metro Site Fabricators LLC

PO: 17576

SO: 34734

CERTS@ALLFASTENERS.COM | WWW.ALLFASTENERS.COM

NEW YORK

Tel 800.577.3171
Fax 201.783.8840

CLEVELAND

Tel 888.859.6060
Fax 440.232.6062

LOS ANGELES

Tel 310.410.5007
Fax 866.553.7702

MINNEAPOLIS

Tel 855.330.2210
Fax 855.218.3781

DALLAS

Tel 888.859.6060
Fax 440.232.6062

NEBRASKA

Tel 855.330.2210
Fax 855.218.3781



Product Certificate of Conformance

AF Lot #: 11022		Part #: 2NG2048									
Lot Number	Component Part Number	Description	Test Results								
			Proof Load (Mpa)		Hardness (HRC)				Wedge Tensile Test (psi)		
			Spec	Sample	Spec	Max	A	B	Spec	A	B
26799	2NG20095A490M	M20 x 95 NexGen2™ Structural Bolt			33	38	Pass	Pass	150000	Pass	Pass
51627	2HHNM2025G2HM	M20-2.50 Heavy Hex Nut Grade 2H	1165	Pass	24	36	Pass	Pass			
10309	14SLS51316M	1-3/16 Shear Sleeve			24	33	Pass	Pass			
54179	2NG2SWH	M20 NexGen2™ Collapsible Split Washer			23	34	Pass	Pass			
4117	2NG2CWM	M20 Solid Collar Washer			23	34	Pass	Pass			



CERTIFICATE OF INSPECTION

1 / 1

ORDER NUMBER : U16746
 PART NUMBER : 498434
 DESCRIPTION : A490 STRUCTURE BOLT, TYPE 1 HD MARK : A490 & JH
 SIZE : 1-8X3-3/4 NC
 FINISH : H.T. PLAIN
 QUANTITY : 990.0
 BOLT MFR.
 NUT MFR.
 WASHER MFR.

REPORT NO : JH14021503035
 REPORT DATE : 2014/03/12
 BOLT LOT NO : B326913P1
 BOLT MATERIAL : SAE 4140H
 BOLT HEAT NO : 2N858
 NUT LOTNO :
 NUT MATERIAL :
 NUT HEAT NO :
 WASHER LOT NO :
 WASHER MATERIAL :
 WASHER HEAT NO :
 ASSEMBLY LOT NO :
 BOLT MFR. DATE : 2014/1/22
 NUT MFR. DATE :
 WASHER MFR. DATE :

BOLT DIMENSIONAL INSPECTION			INSPECTION : 2014/02/08									
SPECIFICATION : ASME B18.2.6			SAMPLING STANDARD : ASME B18.18.2M									
CHARACTERISTIC	TEST METHOD	STANDARD	UNIT	TEST VALUE	SAMPLE	ACC	REJ					
WIDTH ACROSS CORNERS	JIS B1071	45.62-47.65	mm	46.46-46.53	4	4	0					
WIDTH ACROSS FLATS	JIS B1071	40.01-41.27	mm	40.45-40.48	4	4	0					
HEIGHT	JIS B1071	15.02-15.92	mm	15.68-15.70	4	4	0					
BODY DIA.	JIS B1071	24.79-25.95	mm	25.28-25.30	4	4	0					
BODY LENGTH	JIS B1071	MIN 42.93	mm	44.23-44.26	4	4	0					
GRIP LENGTH	JIS B1071	MAX 50.80	mm	46.40-49.38	4	4	0					
LENGTH	JIS B1071	90.43-95.25	mm	94.42-94.46	4	4	0					
THREAD	ASME B1.3	NONE	N/A	PASS	4	4	0					
BOLT MECHANICAL INSPECTION			INSPECTION : 2014/02/08									
SPECIFICATION : ASTM A490			SAMPLING STANDARD : ASTM F1470									
CHARACTERISTIC	TEST METHOD	STANDARD	UNIT	TEST VALUE	SAMPLE	ACC	REJ					
CORE HARDNESS	ASTM F606	33.0-39.0	HRC	36-36	3	3	0					
TENSILE STRENGTH	ASTM F606	150.0-173.0	ksi	164-165	2	2	0					
PROOF LOAD	ASTM F606	MIN 120.0	ksi	PASS	2	2	0					
BOLT MECHANICAL INSPECTION			INSPECTION : 2014/02/08									
SPECIFICATION : SAE J121-APR97			SAMPLING STANDARD : ASTM F1470									
CHARACTERISTIC	TEST METHOD	STANDARD	UNIT	TEST VALUE	SAMPLE	ACC	REJ					
DECARBURIZED	SAE J121	NONE	N/A	PASS	2	2	0					
BOLT APPEARANCE INSPECTION			INSPECTION : 2014/02/08									
SPECIFICATION : ASTM A490			SAMPLING STANDARD : ASTM A490									
CHARACTERISTIC	TEST METHOD	STANDARD	UNIT	TEST VALUE	SAMPLE	ACC	REJ					
MAGNETIC PARTICLE	ASTM A490	NONE	N/A	PASS	125	125	0					
BOLT APPEARANCE INSPECTION			INSPECTION : 2014/02/08									
SPECIFICATION : ASTM F788/F788M-2008			SAMPLING STANDARD : ASTM F788/F788M									
CHARACTERISTIC	TEST METHOD	STANDARD	UNIT	TEST VALUE	SAMPLE	ACC	REJ					
GENERAL WORKMANSHIP - MARKING	VISION	NONE	N/A	PASS	32	32	0					
CHEMICAL ANALYSIS %												
HEAT NO	C-x100	MN-x100	P-x1000	S-x1000	SI-x100	CU-x100	NI-x100	CR-x100	MO-x100	AL-x1000	B-x10000	V-x100
2N858	40	80	16	7	21	1	2	102	17	30		

*Inspection for head bursts was conducted in accordance with the requirements of section 9 of ASTM A490.



BOLT MARKING

Remark : 1. Lab is accredited according to ISO/IEC17025 requirements. This certificate is valid with signature of Wen-Da Tsai.

- This test certificate is responsible for designated samples only. This test certificate only relates to the items listed and tested, it's not allowed to be partially used.
- The above composition is quoted from original mill certs which is not in the scope of Lab Accreditation.
- This test certificate in accordance with EN 10204 type 3.1.
- Unless specified by the customer, the latest version of the testing specs was used.
- Quality System conforms to ISO 9001 requirements and certified by TUV.



**Certified Material Test Report to BS EN 10204-2004 3.1
FOR ASME SA194/ ASTM A194-14 GRADE 2H HVY HEX NUTS**

MFG LOT NUMBER: 5114690003

QNTY SHIPPED: 75.600MPCS
 SAMPLE SIZE : ACC. TO ASME B18 . 18 . 1 - 11
 SIZE & DESCRIPTION: 1-8+0.024"(HDG)
 FINISH: H T HOT DIP GAL PER ASTM A153-09/ASTM F2329-13

STEEL PROPERTIES:

STEEL GRADE: SWRCH45K SIZE: 38mm HEAT NO: 331605625

CHEMISTRY COMPOSITION:

CHEMIST	C %	Mn %	P %	S %	Si %	Cr %	Ni %	Cu %	Mo %	OTHERS
SPE:	MIN	MAX	MAX	MAX	MAX					
	0.40	1.00	0.04	0.05	0.40					
TEST:	0.45	0.7	0.014	0.008	0.17					

DIMENSIONAL INSPECTIONS

SPECIFICATION: ASME/ANSI B18 . 2 . 2 - 2010

CHARACTERISTICS	TEST METHOD	SPECIFIED	ACTUAL RESULT	ACC.	REJ.
APPEARANCE	ASTM F812-12		PASSED	100	0
WIDTH A/F	1.575"-1.625"		1.591"-1.613"	32	0
WIDTH A/C	1.796"-1.876"		1.834"-1.861"	32	0
THREAD	ASME B1.1-03		PASSED	8	0
HEIGHT	0.956"-1.012"		0.976"-0.995"	32	0
MARK	2HZN LM		PASSED	100	0
HDG THICKNISS	ASTM A153-09/ASTM F2329-13 min:43ur		63UM-77UM	20	0

MECHANICAL PROPERTIES:

TO 1-1/2" in SPECIFICATION: ASME SA194/ ASTM A194-14

CHARACTERISTICS	TEST METHOD	SPECIFIED	ACTUAL RESULT	ACC.	REJ.
HARDNESS	ASTM E18-12	24-35HRC	HRC29-30	5	0
PROOF LOAD	ASTM F606-11	MIN106000LBF	106000LBF	5	0
HARDNESS AFTER 24H AT 540°C	ASTM A194 MIN 89 HRB		HRB 93-97	5	0
TEMPERING TEMPERATURE Min455°C			PASSED(520°C)		
MACROETCH	ASTM E381-12	S1/R1/C1-S4/R4/C4	S2/R2/C2	5	0

PARTS ARE MANUFACTURED AND TESTED IN ACCORDANCE WITH ASME SA194/ ASTM A194-14
 ALL TESTS IN ACCORDANCE WITH THE METHODS PRESCRIBED SPECIFICATION. WE CERTIFY
 THAT THIS DATA IS A TRUE REPRESENTATION OF INFORMATION PROVIDED BY THE MATERIAL
 SUPPLIER AND OUR TESTING LABORATORY.

All parts meet the requirements of FQA and records of compliance are on file.
Maker's ISO#00109Q211593R0M/3302

Report of Chemical and Physical Properties

Allfasteners USA - Branch 0
959 Lake Road
MEDINA, OH
44256

Purchase Order: P9874

Certificate #: 758,808

Quantity: 500

Lot Number: GTR18538174B-024

Part #: DHW0010000

Heat Number: 17500894

Description: 1 Hardened Washer F436

Chemical Analysis


C	Mn	P	S	Si	Cr
0.46	0.71	0.009	0.016	0.21	

Mechanical Properties

Core Hardness
Grade Marking

39 - 44 HRC
ASTM F436(11) Type 1

We hereby certify that the above data is a true copy of the data furnished to us by the producing mill or the data resulting from tests performed in approved laboratories.


David Biss
Quality Manager

Report of Chemical and Physical Properties

Issued To: Allfasteners USA - Branch 0
959 Lake Road
MEDINA, OH
44256

Purchase Order: P2301

Certificate #: 699,420

Quantity: 1,000

Lot Number: 1706347

Heat Number: J740000690

Description: 1 Helical Med Split L/W

Chemical Analysis

C	Mn	P	S	Si	Cr	Mo	V	B	Ni	Cu
0.64	0.54	0.012	0.006	0.2						

Mechanical Properties

Hardness (Core) 42.0 - 43.5 HRC

We hereby certify that the above data is a true copy of the data furnished to us by the producing mill or the data resulting from tests performed in approved laboratories.



David Biss
Quality Manager

PO 17596

(Stack)

Sold To: ATLANTA ROD MFG CO INC
 PO BOX 435
 LAVONIA, GA 30553
 (706) 356-4446
 Fax: (706) 356-1842

Ship To: ATLANTA ROD MFG CO INC
 144 SCHOKBETON RD
 PO BOX 435
 LAVONIA, GA 30553
 (706) 356-4446
 Fax: (706) 356-1842

Customer P.O.	27893	Sales Order	322357.2
Product Group	Merchant Bar Quality	Part Number	30000563360DES0
Grade	F1554-07a gr 55, S1, A307 gr 55	Lot #	DL1910613902
Size	9/16" (.5625) Round	Heat #	DL19106139
Product	9/16" (.5625) Round 30' A307-55	B.L. Number	C1-803668
Description	A307-55, F1554 GR 55, S1	Load Number	C1-486229
Customer Spec		Customer Part #	

I hereby certify that the material described herein has been manufactured in accordance with the specifications and standards listed above and that it satisfies those requirements.

Roll Date: 10/28/2019 Melt Date: 10/25/2019 Qty Shipped LBS: 10,152 Qty Shipped Pcs: 400

Melt Date: 10/25/2019

C	Mn	V	Si	S	P	Cu	Cr	Ni	Mo	Cb	CE1554
0.22%	0.83%	0.0380%	0.19%	0.022%	0.006%	0.33%	0.09%	0.11%	0.025%	0.003%	0.38%


CE1554: CE per F1554 GR55, S1

Roll Date: 10/28/2019

Yield 1: 61,000psi	Tensile 1: 82,000psi	Elongation: 23% in 8"(% in 203.3mm)
Yield 2: 61,000psi	Tensile 2: 82,000psi	Elongation 22% in 8"(% in 203.3mm)
Reduction of Area: 56.01%	Reduction of Area #2: 54.64%	Reduction Ratio 197.3 :1

Specification Comments:

1. WELDING OR WELD REPAIR WAS NOT PERFORMED ON THIS MATERIAL
2. MELTED AND MANUFACTURED IN THE USA
3. MERCURY, RADIUM, OR ALPHA SOURCE MATERIALS IN ANY FORM HAVE NOT BEEN USED IN THE PRODUCTION OF THIS MATERIAL



James H. Blew
 Division Metallurgist



Test Certificate

12400 Highway 43 North, Axis, Alabama 36505, US

WARNING: This product can expose you to chemicals including nickel and nickel compounds, which are known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

Form TC1: Revision 4: Date 6 Feb 2019

Customer: LEECO STEEL PRODUCTS, INC. 1011 WARRENVILLE ROAD SUITE 500 LISLE IL 60532	Customer P.O.No.: V17853-54495	Mill Order No.: 41-578468-01	Shipping Manifest: AR293432
	Product Description: ASTM A572(18) 65/M450		Ship Date: 16 Aug 19 Cert Date: 16 Aug19
Size: 1.250 X 96.00 X 480.0 (IN)			

Tested Pieces:				Tensiles:					Charpy Impact Tests					BDWTT Twp %Shr						
Heat Id	Piece Id	Piece Dimensions	Tst Loc	YS (KSI)	UTS (KSI)	%RA	Elong % 2in 8in	Tst Dir	Hardness	Abs. Energy(FTLB)					% Shear	Tst Tmp	Tst Dir	Tst Siz (mm)		
W9H524	A04	1.252 (DISCRT)	L	72	100		30	T		1	2	3	Avg	1	2	3	Avg			
			T	71	99		34	T												

Heat Id	Chemical Analysis														ORGN USA
	C	Mn	P	S	Si	Tot Al	Cu	Ni	Cr	Mo	Cb	V	Ti	B	
W9H524	.19	1.47	.013	.002	.33	.028	.26	.14	.13	.03	.005	.092	.002	.0004	.0094

KILLED STEEL
 MERCURY IS NOT A METALLURGICAL COMPONENT OF THE STEEL AND NO MERCURY WAS INTENTIONALLY ADDED DURING THE MANUFACTURE OF THIS PRODUCT.
 MTR EN 10204:2004 INSPECTION CERTIFICATE 3.1 COMPLIANT
 100% MELTED AND MANUFACTURED IN THE USA.
 NO WELD REPAIR HAS BEEN PERFORMED ON THIS MATERIAL.
 PRODUCTS SHIPPED:
 W9H524 A04 PCES: 2, LBS: 32670

*PO 17611
stock*

WE HEREBY CERTIFY THAT THIS MATERIAL WAS TESTED IN ACCORDANCE WITH, AND MEETS THE REQUIREMENTS OF, THE APPROPRIATE SPECIFICATION

Justin Ward
SENIOR METALLURGIST - PRODUCT

(P) Cust Part #: 125096480A572-65



Test Certificate

12400 Highway 43 North, Axis, Alabama 36505, US

WARNING: This product can expose you to chemicals including nickel and nickel compounds, which are known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

Form TC1: Revision 4: Date 6 Feb 2019

Customer: LEECO STEEL PRODUCTS, INC. 1011 WARRENVILLE ROAD SUITE 500 LISLE IL 60532	Customer P.O.No.: TD1215P-54527	Mill Order No. 41-590368-01	Shipping Manifest: AR300392
	Product Description: ASTM A572(18) 65/M450 T3; MAX 0.05% Si, .45% CEV (AWS) LCVN 15 FT-LBS @ -20F / A673-P		Ship Date: 25 Dec 19 Cert Date: 25 Dec19
	Size: 0.375 X 96.00 X 240.0 (IN)		

Tested Pieces:				Tensiles:					Charpy Impact Tests					BDWTT Tst %Shr							
Heat Id	Piece Id	Piece Dimensions	Tst Loc	YS (KSI)	UTS (KSI)	%RA	Elong % 2in 8in	Tst Dir	Hardness	Abs. Energy(FTLB) 1 2 3 Avg					% Shear 1 2 3 Avg				Tst Tmp	Tst Dir	Tst Siz (mm)
W9L738	D54	0.375 (DISCRT)	L T	75 91	92 91		31 32	T T		19	66	18	34					-22F	L	7.5	

Heat Id	Chemical Analysis																ORGN
	C	Mn	P	S	Si	Tot Al	Cu	Ni	Cr	Mo	Cb	V	Ti	B	N	Cev	
W9L738	.16	1.18	.006	.003	.03	.041	.15	.09	.15	.03	.036	.089	.007	.0001	.0099	.44	USA

KILLED STEEL
 MERCURY IS NOT A METALLURGICAL COMPONENT OF THE STEEL AND NO MERCURY WAS INTENTIONALLY ADDED DURING THE MANUFACTURE OF THIS PRODUCT.
 $CEV = C + (MN+SI)/6 + (CR+MO+V)/5 + (NI+CU)/15$
 MTR EN 10204:2004 INSPECTION CERTIFICATE 3.1 COMPLIANT
 100% MELTED AND MANUFACTURED IN THE USA
 CHARPY FULL SIZE EQUIVALENT = ABSORBED ENERGY AVG X 10 / TEST SIZE IN MM
 NO WELD REPAIR HAS BEEN PERFORMED ON THIS MATERIAL.
 PRODUCTS SHIPPED:
 W9L738 D54 PCES: 7, LBS: 17150

(P)	Cust Part #: 037096240A572-65	WE HEREBY CERTIFY THAT THIS MATERIAL WAS TESTED IN ACCORDANCE WITH, AND MEETS THE REQUIREMENTS OF, THE APPROPRIATE SPECIFICATION	<u>Justin Ward</u> SENIOR METALLURGIST - PRODUCT
-----	-------------------------------	----------------------------------------------------------------------------------------------------------------------------------	-----------------------------------------------------



Product Certificate of Conformance

AF Lot #: **11722**

Part #: **2NG2048**

Lot Number	Component Part Number	Description	Test Results								
			Proof Load (Mpa)		Hardness (HRC)				Wedge Tensile Test (psi)		
			Spec		Spec		Sample		Spec		Sample
			Min	Sample	Min	Max	A	B	Min	A	B
26799	2NG20095A490M	M20 x 95 NexGen2™ Structural Bolt			33	38	Pass	Pass	150000	Pass	Pass
51627	2HHNM2025G2HM	M20-2.50 Heavy Hex Nut Grade 2H	1165	Pass	24	36	Pass	Pass			
10309	14SLSS1316M	1-3/16 Shear Sleeve			24	33	Pass	Pass			
54179	2NG2SWH	M20 NexGen2™ Collapsible Split Washer			23	34	Pass	Pass			
4117	2NG2CWM	M20 Solid Collar Washer			23	34	Pass	Pass			



Product Certificate of Conformance

AF Lot #: **9729**

Part #: **2NG2060**

Lot Number	Component Part Number	Description	Test Results									
			Proof Load (Mpa)		Hardness (HRC)				Wedge Tensile Test (psi)			
			Spec		Spec		Sample		Spec		Sample	
			Min	Sample	Min	Max	A	B	Min	A	B	
39312	2NG20060A490M	M20 x 60 NexGen2™ Structural Bolt			33	38	Pass	Pass	150000	Pass	Pass	
3373340001	2HHNM2025G2HM	M20-2.50 Heavy Hex Nut Grade 2H	1165	Pass	24	36	Pass	Pass				
5195	2NG2ECWM	Extended Collar			24	33	Pass	Pass				
775354	2NG2CW20	M20 NexGen2™ Collapsible Split Washer			23	34	Pass	Pass				
N/A	#N/A	#N/A			23	34	#N/A	#N/A				

CERTS@ALLFASTENERS.COM | WWW.ALLFASTENERS.COM

NEW YORK

Tel 800.577.3171
Fax 201.783.8840

CLEVELAND

Tel 888.859.6060
Fax 440.232.6062

LOS ANGELES

Tel 310.410.5007
Fax 866.553.7702

MINNEAPOLIS

Tel 855.330.2210
Fax 855.218.3781

DALLAS

Tel 888.859.6060
Fax 440.232.6062

NEBRASKA

Tel 855.330.2210
Fax 855.218.3781



Wrought Washer Mfg., Inc
1901 Chicory Road
Mount Pleasant, WI 53403

Certificate Of Conformance

Date:
Certification To: SLSB LLC/St. Louis Screw & Bolt
2000 Access Blvd.
Madison, IL 62060
USA

Part Info

PO No Revision:		Customer Part Rev Level:
Customer Part No: 018129		
Part Name: 5/8"REG L/W 1060 HOT DIP GALV		Customer PO No: SB004845
Quantity: 43,200		
Supplier:		
Master Unit No(s): M009073		Line No: 1
Piece List:		Revision:
Tracking No(s): S058017		
Wrought Washer Mfg., Inc. Part No: 018129		
Heat Code(s): 64000		
Shipper No: WW02390		
Job No(s): T27319021		

Supplier	Heat No	Attachment
	64000	64000

We hereby certify that the subject parts conform to the purchase order and any applicable specification indicated above. We further certify that all hardening and/or plating meet full purchase order specification requirements.

We hereby certify that all statutory requirements as to American Production and Labor Standards and all conditions of purchase applicable to the transaction have been complied with and that the subject parts were manufactured in the USA.

Paul J. Seppelink

Signature

Date



UNYTITE INC.
 INNOVATIVE FASTENING SYSTEMS

Unytite, Inc.
 One Unytite Drive
 Peru, IL 61354
 Tel 815-224-2221
 Fax 815-224-3434

INSPECTION CERTIFICATE

Job No: 31392-S

Job Information

Certified Date: 10/14/19

Customer: ST LOUIS SCREW & BOLT CO

Ship To: ST LOUIS

Customer Part No:

Customer PO No: SB001814

Shipped Qty: 32,400

Lot Number: 31392-S-190518

Part Information

Part No: A563 5/8-11 +0.020 DH HHN HDG BLUE DYE



Description: ASTM A563 HHN, Grade DH, Hot Dipped Galv, Blue Dye

Manufactured Quantity: 151,223

Applicable Specifications

Specification	Amend	Specification	Amend
ASME B1.1	2003	ASME B18.2.2	2015
ASME B18.2.6	2011	ASME B18.2.6M	2012
ASTM A563	2015	ASTM F2329/F2329M	2015
ASTM F606/606M	2016	ASTM F812	2017

Test Results

Test No: 20706 **Test:** A563 DH Mechanical Properties

Description	Hardness (HRC)	Tempering Temp (800 degree F Min)	Proof Load (Pass ASTM Min LBS)	Shape & Dimension ASME B18.2.2	Thread Precision ASME B18.1.1	Visual ASTM F812
Sample Inspection	28.45	1,202	33,900	Pass	Pass	Pass

Certified Chemical Analysis

Heat No	Grade	Manufacturer	Origin	C	Mn	P	S	Si	Cr	Ni	Cu
190518	1045	Alton Steel Inc.	USA	0.4300	0.7000	0.010	0.0220	0.1900	0.1390	0.0770	0.1900

Notes

All tests are in accordance with the latest revisions of the methods prescribed in the applicable SAE and ASTM Specifications.

The samples tested conform the specifications as described/listed above and were manufactured free of mercury contamination and there is no welding performed in the production of the products. No heats to which Bismuth, Selenium, Tellurium, or Lead was intentionally added have been used to produce products.

The steel was melted and manufactured in the U.S.A. and the product was manufactured and tested in the U.S.A.

We certify that this data is true representation of information provided by the material supplier and our testing laboratory. This certified material test report relates only to the items listed on this document and may not be reproduced except in full.



Thorsen, Chris - Supervisor, Quality

10/14/19

Date



CERTIFIED MILL TEST REPORT

Alton Steel Test Lab
 #5 Cut Street
 Alton, IL, 62002-9011
 (618) 463-4490 Ext 2486
 (618) 463-4491 (Fax)

BILL TO Unytite, Inc.
 One Unytite Drive
 Peru, IL 61354

SHIP TO Unytite, Inc.
 325 Civic Road
 LaSalle, IL 61301

Date	08/09/2019	Customer PO	P008538-5	Specifications
ASI Ord No	99459	Customer PT	B1045SC0.8750	
ASI Ord Line No	1			SAE 1045

Item Description Strand Cast, RR = 81.49:1
 Steel Bar, Hot Rolled, 0.8750, 25' 0 "

Heat # **Yield PSI** **Tensile PSI** **% Elongation** **% ROA** **Bend Test**

CHEMICAL ANALYSIS TEST METHODS ASTM E-415 & E-1019

Heat #	C	Mn	P	S	Si	Cu	Ni	Cr	Mo	Sn	Al	Nb/Cb	V	B	Ti	N	Pb	Ca
190518	0.43	0.70	0.010	0.022	0.19	0.19	0.077	0.139	0.028	0.008	0.003	0.024	0.006	0.0003	0.0008	0.0109	0.0038	0.0012
190519	0.43	0.73	0.009	0.022	0.22	0.19	0.079	0.124	0.031	0.008	0.003	0.026	0.006	0.0003	0.0009	0.0111	0.0040	0.0010

JOMINY HARDENABILITY USING ASTM A-255 CALCULATED FROM CHEMICAL DI

Heat #	GS	DI
190518	8	1.33
190519	8	1.35

SPECIAL TEST RESULTS

Heat #	ASTM E-45 Method A								ASTM E-45 Method C		SAE J422		ASTM E-381			Charpy		Hardness		CE
	TA	TB	TC	TD	HA	HB	HC	HD	S	O	S	O	S	R	C	RC	RB	BHN	BHN2	
190518											2	1	1	1	1					
										Decarb:		0.005								
190519											1	1	1	2	2					
										Decarb:		0.005								

ADDITIONAL COMMENTS

RMS 021
 CWA 11-058

No mercury, lead, radium, or alpha containing material or equipment is used or deliberately added in the production of this steel. No weld or weld repairs were performed on this material. This Steel is 100% Electric Arc Furnace Melted and Rolled in the U.S.A. Material qualifies as NAFTA origination.

Subscribed and sworn to before me, a Notary Public, in and for the county of Madison, State of Illinois

this _____ Day of _____

My commission expires _____

 (Notary Public)

Alteration or reproduction of this report, except in full, is not allowed without written approval by a representative of Alton Steel Incorporated.

I hereby certify that the above tests are correct as contained in the records of ALTON STEEL INCORPORATED

Quality Leader: Josh Levi



Wrought Washer Mfg., Inc
 1901 Chicory Road
 Mount Pleasant, WI 53403

Certificate Of Conformance

Date: 1/22/2020
 Certification To: SLSB LLC/St. Louis Screw & Bolt
 2000 Access Blvd.
 Madison, IL 62060
 USA

Part Info

PO No Revision:
 Customer Part No: AAWG062
 Part Name: 5/8 S MARK HDG-PAISLS-[P]/ASTM F436-19
 Quantity: 150,800
 Supplier:
 Master Unit No(s): M011755 M011757 M011760 M011791

Customer Part Rev Level:
 Customer PO No: SB004649

Line No: 2

Piece List:
 Tracking No(s): S105479
 Wrought Washer Mfg., Inc. Part No: 067285
 Heat Code(s): 295004
 Shipper No: WW03265
 Job No(s): PL ORDER 2133 HT ORDER 1456

Revision:

Supplier	Heat No	Attachment
Nucor Steel	295004	295004

We hereby certify that the subject parts conform to the purchase order and any applicable specification indicated above. We further certify that all hardening and/or plating meet full purchase order specification requirements.

We hereby certify that all statutory requirements as to American Production and Labor Standards and all conditions of purchase applicable to the transaction have been complied with and that the subject parts were manufactured in the USA.

Paul Hill

1/22/2020

Signature

Date

NUCOR
Nucor Steel Indiana
4537 South Nucor Road
Crawfordsville, IN 47933-0907

METALLURGICAL TESTING CERTIFICATION

D081400

Certificate Number: 846151
Date Issued: 10/03/2019

Page: 1 of 2

Order Number: 320843 - 0009 HOT ROLLED PICKLED & OILED
Order Dimensions: 0.1220 in X 53.2500 in
HRPO, MILL, J403 1035

Customer Name: BROUGHT WASHER MFG INC
Customer Address: 2100 S BAY ST

ASTM A568-17A
SAE J403-14 1035

Release Order: MILWAUKEE WI 53207
Cust PO Number: H3567

Coil Number 2440606.000 TAIL
Rockwell B: 88

Part Number 824128-60 TONS
Weight: 42,380 LBS

CHEMICAL ANALYSIS

Heat	Slab	C	Mn	P	S	Si	Cu	Sn	Ni	Cr	Mo	Al	N	V	Nb	Ti	B	Sb
295004	01	0.35	0.840	0.009	0.006	0.255	0.092	0.006	0.062	0.073	0.026	0.033	0.008	0.005	0.001	0.002	<0.0005	0.001

WE HEREBY CERTIFY THE ABOVE IS CORRECT AS CONTAINED IN THE RECORDS OF THE CORPORATION
MELTED AND ROLLED IN THE USA

QF-0261 04/01/2019

1-800-777-0950 MTR_IND_INQUIRIES@NUCOR.COM

NUCOR QUALITY ASSURANCE


Eric E. Galle

Standard Heat Treating, LLC

Certification

Order No.: 230100

Date: 12/10/2019

Entry Date: 12/05/2019

Page: 1 of 1

To:

Wrought Washer Mfg., Inc
2100 South Bay Street

Purchase Order No.: 1456

Packing List No.:

Milwaukee WI 53207

Material: 1034

Standard Heat Treating certifies the listed results of inspection and testing to accurately reflect the processes performed and data obtained as a result of our heat treatment of the specified product.

Quantity	Part Number / Part Name / Part Description	Pounds
405,632	017280 S126249, S126129, S126876, S128843, S131102, S130933	12891

Insp. Type	Scale	Minimum	Maximum	Number	Other
Customer Requirements:					
Test	RC	38.	45.		38-45 HRC

Austentized, quenched and tempered to obtain a hardness of 38-40 HRC.

Processed in the USA.

Alternate signature may include James Perkne (Dir., Customer Service) or Efrain Santoyo (Dir., Production) or Walter Santoyo (Plant Manager).



John Christ
Quality Manager
Standard Heat Treating, LLC



Metro Site Fabricators, LLC
 180 Industrial Park Boulevard
 Commerce, GA 30529
 United States of America

Ph: 706-335-7045

Fax: 706-335-7056

Pack List

Number: 22780 Date: 03/03/20
02-Mar-20

To

American Tower Corporation
 PO Box 2009
 Woburn, MA 01801
 United States of America

Ship To

Ian Culbert
 STRUCTURAL COMPONENTS
 310 PRESTIGE PARK RD
 EAST HARTFORD, CT 06108
 United States of America

Ph: 877-778-2938

Fax: 781-926-7849 ap

Ph: 207-450-2369

Terms Net 60 Days **Ship Via**

Net 60 Days

Quantity	Description	Rev:
1 ea	Part: PRESTIGE PARK CT 302473 PROVIDE MATERIALS Job: 21246	
	PO: 555551-I.CULBERT	Line: 1

Job Bill of Materials

Job	Job Part Number	Material	Description	Make Qty	Qty_Per
21246		MILLING FLAT BAR			1.00
21246		MS02-625-250-4375	5/8 X2-1/2 IW X4-3/8 IL U-BOLT		171.00
21246		MS01-625-SHHN-HDG	5/8 STR HVY HXNT A563-DH HDG		342.00
21246		MS01-625-SFLW-HDG	5/8 STR FLAT WASHER F436-1 HDG		342.00
21246		MS01-625-LKW-HDG	5/8" LOCK WASHER HDG		342.00
21246		MS01-M20-60-BB-MC	M20 X 60 BLIND BOLT, MC		105.00
21246		MS01-750-SP-HDG	3/4 STEP PEG, HDG U-BOLT BRKT		15.00
21246		MS184-N	STEP PEG BRCKT 1-3/16 HOLE HDG		29.00
21246		MS01-100-375-A490-MC	1" X 3-3/4" BOLT A490-MAGNI		13.00
21246		MS01-100-SHHN-MC	1" STR HVY HEX NUT A490-MAGNI		13.00
21246		MS01-100-LKW-MC	1" LOCK WASHER MAGNI		13.00
21246		MS01-100-SFLW-MC	1" STR FLAT WASHER A490-MAGNI		13.00
21246		DSI-#20 30' HDG	DSI #20 ROD 30' GR75 HDG		4.00
21246		MS01-M20-68-BB-MC	M20 X 135 BLIND BOLT, MC		4.00
21246		MS01-M20-48-BB-MC	M20 X 95 BLIND BOLT, MC		104.00
21246-1	BR-20C		L6" X 3-1/2" X 3/8" X 1'-0"	22	
21246-2	TB-20C-12		L6" X 3-1/2" X 3/8" X 3'-6-3/4"	8	
21246-3	302473-1		PL-1-1/4" X 4" X 16'-4"	1	
21246-4	302473-2		TERMINATION WELDMENT	1	
21246-5	302473-3		PLATE WELDMENT	3	
21246-6	302473-4		PLATE WELDMENT	3	
21246-7	302473-5		PL 1" X 2-1/2" X 2'-1-1/2"	3	

[DON - 3/2/2020 4:26:35 PM]



CMC STEEL ALABAMA
101 S 50TH STREET
BIRMINGHAM AL 35212-3525

CERTIFIED MILL TEST REPORT
For additional copies call
800-637-3227

We hereby certify that the test results presented here
are accurate and conform to the reported grade specification

Marcus W. McCluney
Marcus W. McCluney - CMC Steel AL

Quality Assurance Manager

1SERIES-BPS®

HEAT NO.:1055756 SECTION: ANG 6 X 3 1/2x3/8 40'0" A36/52950 GRADE: ASTM A36-14/A529-14 Gr 50 ROLL DATE: 10/03/2018 MELT DATE: 09/27/2018 Cert. No.: 82531377 / 055756B148	S O L D T O	Siskin Steel & Supply 1901 Riverfront Pkwy Chattanooga TN US 37408-1037 4237563671 4237562734	S H I P T O	Siskin Steel & Supply Co 620 John Dodd Rd Spartanburg SC US 29303-0000 8645999988	Delivery#: 82531377 BOL#: 72692498 CUST PO#: 75466 CUST P/N: 127904 DLVRY LBS / HEAT: 9360.000 LB DLVRY PCS / HEAT: 20 EA
------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	----------------------------	--------------------------------------------------------------------------------------------------------------	----------------------------	-----------------------------------------------------------------------------------------------	------------------------------------------------------------------------------------------------------------------------------------------

Characteristic	Value	Characteristic	Value	Characteristic	Value
C	0.15%	Elongation test 1	25%	<p>The Following is true of the material represented by this MTR:</p> <ul style="list-style-type: none"> *Material is fully killed *100% melted and rolled in the USA *EN10204:2004 3.1 compliant *Contains no weld repair *Contains no Mercury contamination *Manufactured in accordance with the latest version of the plant quality manual *Meets the "Buy America" requirements of 23 CFR635.410 *Warning: This product can expose you to chemicals which are known to the State of California to cause cancer, birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov 	
Mn	0.77%	Elongation Gage Lgth test 1	8IN		
P	0.014%	Yield to tensile ratio test1	0.71		
S	0.026%	Yield Strength test 2	51.6ksi		
Si	0.17%	Tensile Strength test 2	73.0ksi		
Cu	0.29%	Elongation test 2	27%		
Cr	0.12%	Elongation Gage Lgth test 2	8IN		
Ni	0.14%	Yield to tensile ratio test2	0.71		
Mo	0.042%				
V	0.024%				
Cb	0.001%				
Sn	0.011%				
B	0.0003%				
Ti	0.001%				
N	0.0078%				
Carbon Eq A6	0.34%				
Carbon Eq A529	0.37%				
Yield Strength test 1	52.4ksi				
Tensile Strength test 1	73.6ksi				

REMARKS :

ALSO MEETS ASTM GRADE A36 REV 08, A529-50, A572-2015-50, 709-36, A709-50,A992, AASHTO GRADE M270-36, M270-50, CSA G40.21-04 GRADE 44W, 50WASME SA-36 2008A ADDEND A.

10/26/2018 13:12:23

Page 1 OF 1



US-ML-CHARLOTTE
6601 LAKEVIEW ROAD
CHARLOTTE, NC 28269
USA

CERTIFIED MATERIAL TEST REPORT

CUSTOMER SHIP TO KLOECKNER METALS US 3775 S NAMASCO CT HWY 23 SUWANEE,GA 30024 USA		CUSTOMER BILL TO KLOECKNER METALS CORPORATION 500 COLONIAL CENTER PKWY ROSWELL,GA 30076-8853 USA		GRADE GGMULTI	SHAPE / SIZE Round Bar / 3/4"	DOCUMENT ID: 0000000000
SALES ORDER 6707137000020		CUSTOMER MATERIAL N° MB34RND20A36		LENGTH 20'00"	WEIGHT 9,612 LB	HEAT / BATCH 54161110/02
CUSTOMER PURCHASE ORDER NUMBER 7290970			BILL OF LADING 1321-0000057240	DATE 07/10/2018	SPECIFICATION / DATE or REVISION ASME SA36, ASTM A529-14 ASTM A6-17, A36-14, A572-15 ASTM A709-17, AASHTO M270-15 CSA G40.20-13/G40.21-13	

CHEMICAL COMPOSITION										
C %	Mn %	P %	S %	Si %	Cr %	Ni %	Cr %	Mo %	V %	Nb %
0.15	0.71	0.012	0.037	0.20	0.35	0.39	0.15	0.070	0.004	0.007

MECHANICAL PROPERTIES					
Elong. %	G/L Inch	UTS PSI	UTS MPa	YS PSI	YS MPa
25.00	8.000	77849	537	58111	401

GEOMETRIC CHARACTERISTICS	
R.R	56.00

COMMENTS / NOTES

This grade meets the requirements for the following grades:
ASTM Grades: A36; A529-50; A572-50; A709-36; A709-50
CSA Grades: 44W; 50W
AASHTO Grades: M270-36; M270-50
ASME Grades: SA36

The above figures are certified chemical and physical test records as contained in the permanent records of company. We certify that these data are correct and in compliance with specified requirements. This material, including the billets, was melted and manufactured in the USA. CMTR complies with EN 10204 3.1.

Bhaskar BHASKAR YALAMANCHILI
QUALITY DIRECTOR
Phone: (409) 267-1071 Email: Bhaskar.Yalamanchili@gerdau.com

Rachel Warren RACHEL WARREN
QUALITY ASSURANCE REP.
Phone: (704) 896-0361 EX3039 Email: Rachel.Webster@gerdau.com

12-13-2018 05:00
Metro Site Fabricators LLC
Cust. PO - 15727

Load - 3203142

BL - 3328377

Heat - 54161110

Order - 16872993

blr466

PACKING SLIPS



Metro Site Fabricators, LLC
 180 Industrial Park Boulevard
 Commerce, GA 30529
 United States of America

Ph: 706-335-7045

Fax: 706-335-7056

Pack List

Number: 22780

Date: 03-Mar-20

To

American Tower Corporation
 PO Box 2009
 Woburn, MA 01801
 United States of America

Ship To

Ian Culbert
 STRUCTURAL COMPONENTS
 310 PRESTIGE PARK RD
 EAST HARTFORD , CT 06108
 United States of America

Ph: 877-778-2938

Fax: 781-926-7849 ap

Ph: 207-450-2369

Terms		Ship Via			
Net 60 Days					
Quantity	Description				
1 ea	Part: PRESTIGE PARK CT 302473 PROVIDE MATERIALS Job: 21246	Rev:	Line: 1		
PO: 555551-I.CULBERT					
Job Bill of Materials					
Job	Job Part Number	Material	Description	Make Qty	Qty Per
21246		MILLING FLAT BAR			1.00
21246		MS02-625-250-4375	5/8 X2-1/2 IW X4-3/8 IL U-BOLT		171.00
21246		MS01-625-SHHN-HDG	5/8 STR HVY HXNT A563-DH HDG		342.00
21246		MS01-625-SFLW-HDG	5/8 STR FLAT WASHER F436-1 HDG		342.00
21246		MS01-625-LKW-HDG	5/8" LOCK WASHER HDG		342.00
21246		MS01-M20-60-BB-MC	M20 X 60 BLIND BOLT, MC		105.00
21246		MS01-750-SP-HDG	3/4 STEP PEG, HDG U-BOLT BRKT		15.00
21246		MS184-N	STEP PEG BRCKT 1-3/16 HOLE HDG		29.00
21246		MS01-100-375-A490-MC	1" X 3-3/4" BOLT A490-MAGNI		13.00
21246		MS01-100-SHHN-MC	1" STR HVY HEX NUT A490-MAGNI		13.00
21246		MS01-100-LKW-MC	1" LOCK WASHER MAGNI		13.00
21246		MS01-100-SFLW-MC	1" STR FLAT WASHER A490-MAGNI		13.00
21246		DSI-#20 30' HDG	DSI #20 ROD 30' GR75 HDG		4.00
21246		MS01-M20-68-BB-MC	M20 X 135 BLIND BOLT, MC		4.00
21246		MS01-M20-48-BB-MC	M20 X 95 BLIND BOLT, MC		104.00
21246-1	BR-20C		L6" X 3-1/2" X 3/8" X 1'-0"	22	
21246-2	TB-20C-12		L6" X 3-1/2" X 3/8" X 3'-6-3/4"	8	
21246-3	302473-1		PL-1-1/4" X 4" X 16'-4"	1	
21246-4	302473-2		TERMINATION WELDMENT	1	
21246-5	302473-3		PLATE WELDMENT	3	
21246-6	302473-4		PLATE WELDMENT	3	
21246-7	302473-5		PL 1" X 2-1/2" X 2'-1-1/2"	3	
[DON - 3/2/2020 4:26:35 PM]					

DYWIDAG BAR INSTALLATION VERIFICATION



Structural Components, LLC
1870 W 64th Lane, Unit A
Denver, CO 80221

Voice: 720-304-8839
Fax: 720-489-3764

Ryan Hubert
1870 W 64th Lane, Unit A
Denver, CO 80221
Office: (508) 210-4340
Mobile: (207) 450-2369
Rhubert@StructuralComponents.net

March 23, 2020

RE: Dywidag Placement
Customer: American Tower Corporation
Site # 302473
Site Name: EHFR Prestige Park CT

Scope of Work:

- Install (4) dywidag reinforcement bars from -7.5' to 22.5'.

Dear Mr. Culbert,

This letter is to inform you that the Dywidag modification work performed on the above referenced project was completed in accordance with the contract documents prepared by the Engineer of Record, Esha Kaushal Modi, PE, CT, ATC, 302473 EHFR Prestige Park CT, 150 ft Monopole Modification, OAA745293_C6_06 dated 4/17/2019. Please see the attached report for field verification of the Dywidag placement.

We at Structural Components appreciate the opportunity to work with American Tower Corporation. Please let us know if you have any questions.

A handwritten signature in black ink that reads 'Ryan Hubert'.

Ryan Hubert
Project Manager

1870 W 64th Lane, Unit A Denver, CO 80221 PH: 720-489-3764

CLIENT:	American Tower Corporation	DATE AT SITE:	3/10/2020
SITE (ID):	302473 EHFR Prestige Park CT	TOWER TYPE:	Monopole
ADDRESS:	310 Prestige Park Road	TOWER HEIGHT:	150ft
	East Hartford, CT 06108	WEATHER:	Overcast, 50°F, calm wind

Core Holes

(4) 3" \varnothing Holes Minimum 7.5' Depth



1870 W 64th Lane, Unit A

Denver, CO 80221

PH: 720-489-3764

CLIENT:	American Tower Corporation	DATE AT SITE:	3/12/2020
SITE (ID):	302473 EHFR Prestige Park CT	TOWER TYPE:	Monopole
ADDRESS:	310 Prestige Park Road	TOWER HEIGHT:	150ft
	East Hartford, CT 06108	WEATHER:	Overcast, 50°F, calm wind

Dywidag Rods

Hilti RE-500 used as dywidag adhesive per the modification drawings.



ON-SITE COLD GALVANIZATION VERIFICATION



Structural Components, LLC
1870 W 64th Lane Unit A
Denver, CO 80221

Voice: 720-304-8839
Fax: 720-489-3764

Ryan Hubert
1870 W 64th Lane Unit A
Denver, CO 80221
Office: (508) 210-4340
Mobile: (207) 450-2369
Rhubert@StructuralComponents.net

March 19, 2020

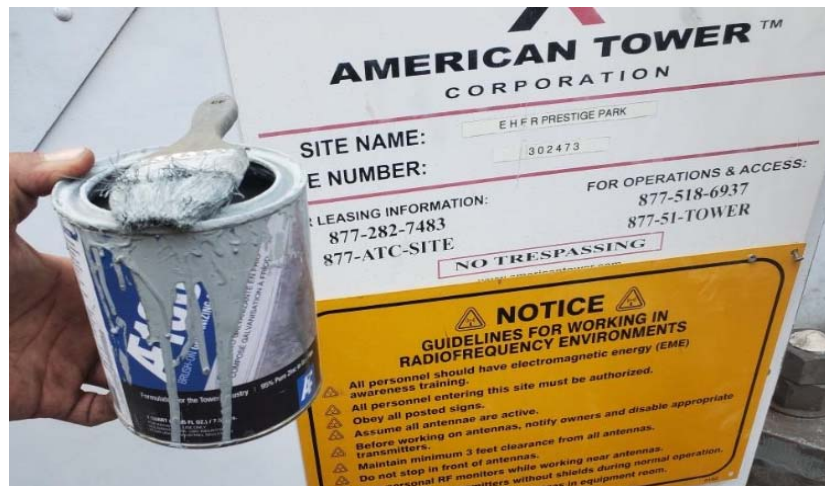
RE: On-Site Cold Galvanizing Verification
Customer: American Tower Corporation
Site # 302473
Site Name: E H F R Prestige Park

Scope of Work:

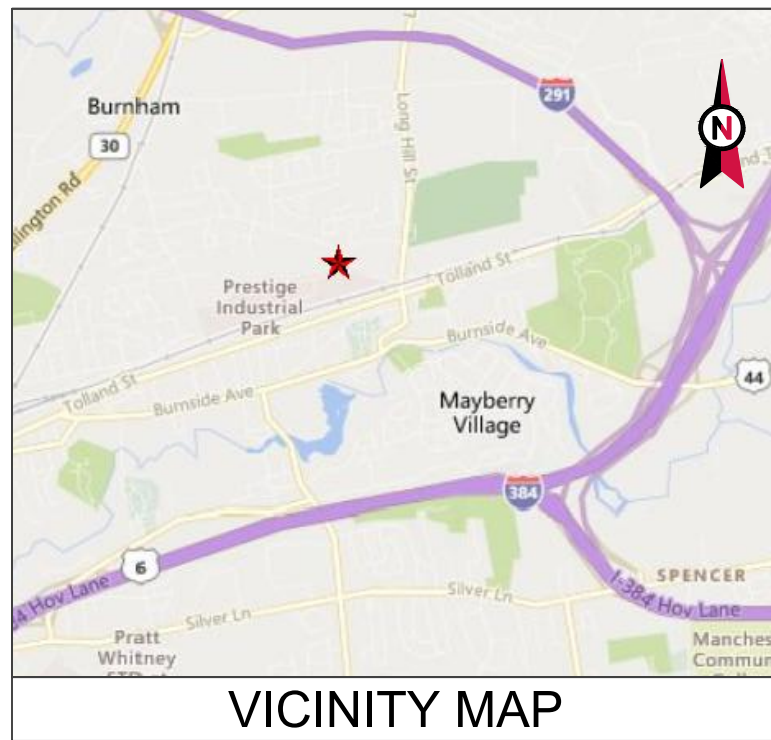
- Install (4) dywidag reinforcement bars from -7.5' to 22.5'.
- Install (3) plate reinforcements from 110.0' to 120.0'.
- Install (4) plate reinforcements from 90.0' to 110.0'.

All cut, drilled, welded surfaces on site were painted with (2) coats of Cold Galvanizing Compounds, 95% ZRC applied by paint brush. Pictures were taken throughout the process and upon completion.

Ryan Hubert
Project Manager



**MI INSPECTOR RECORD AND GC AS-
BUILT DRAWINGS**

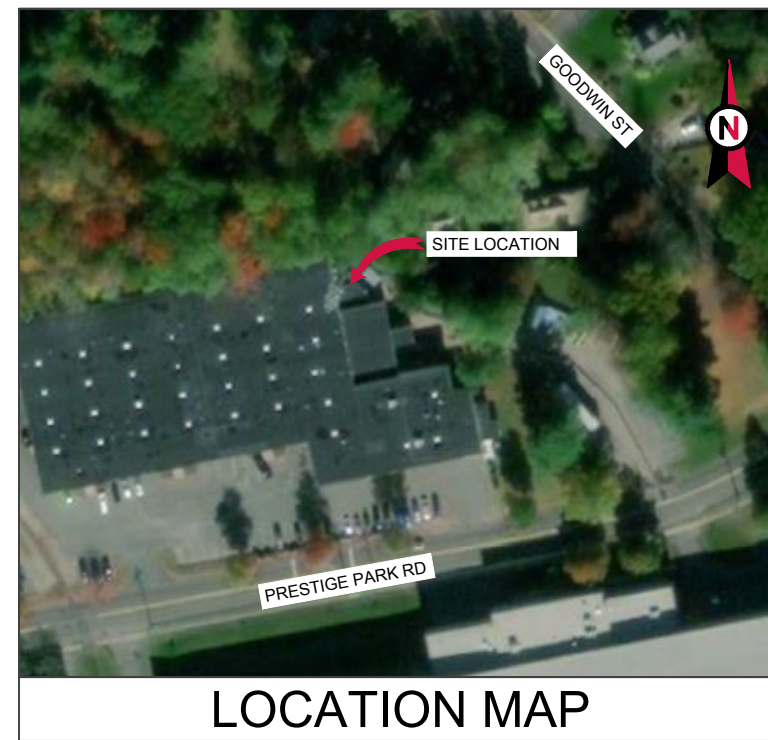


VICINITY MAP



AMERICAN TOWER®

SITE NAME: E H F R - PRESTIGE PARK
 SITE NUMBER: 302473
 ATC PROJECT NUMBER: OAA745293_C6_06
 SITE ADDRESS: 310 PRESTIGE PARK RD.
 EAST HARTFORD, CT
 06108



LOCATION MAP

Passing MI Report
Tuesday, March 24, 2020
Hannah Childers, CWI

150 FT MONOPOLE MODIFICATIONS

GC As-Builts
Structural Components
Ryan Hubert
3.23.2020

AMERICAN TOWER®
A.T. ENGINEERING SERVICE, PLLC
 3500 REGENCY PARKWAY
 SUITE 100
 CARY, NC 27518
 PHONE: (919) 468-0112
 COA: PEC.0001553

THESE DRAWINGS AND/OR THE ACCOMPANYING SPECIFICATION AS INSTRUMENTS OR SERVICE ARE THE EXCLUSIVE PROPERTY OF AMERICAN TOWER. THEIR USE AND PUBLICATION SHALL BE RESTRICTED TO THE ORIGINAL SITE FOR WHICH THEY ARE PREPARED. ANY USE OR DISCLOSURE OTHER THAN THAT WHICH RELATES TO AMERICAN TOWER OR THE SPECIFIED CARRIER IS STRICTLY PROHIBITED. TITLE TO THESE DOCUMENTS SHALL REMAIN THE PROPERTY OF AMERICAN TOWER WHETHER OR NOT THE PROJECT IS EXECUTED. NEITHER THE ARCHITECT NOR THE ENGINEER WILL BE PROVIDING ON-SITE CONSTRUCTION REVIEW OF THIS PROJECT. CONTRACTOR(S) MUST VERIFY ALL DIMENSIONS AND ADVISE AMERICAN TOWER OF ANY DISCREPANCIES. ANY PRIOR ISSUANCE OF THIS DRAWING IS SUPERSEDED BY THE LATEST VERSION ON FILE WITH AMERICAN TOWER.

REV.	DESCRIPTION	BY	DATE
0	FIRST ISSUE	CWB	04/01/19

ATC SITE NUMBER:
 302473
 ATC SITE NAME:
 E H F R - PRESTIGE PARK
 CONNECTICUT
 SITE ADDRESS:
 310 PRESTIGE PARK RD.
 EAST HARTFORD, CT 06108

PROJECT TEAM	PROJECT DESCRIPTION	SHEET	SHEET TITLE	REV.
<p>TOWER OWNER AMERICAN TOWER 10 PRESIDENTAL WAY WOBURN, MA 01801</p> <p>ENGINEERED BY ATC TOWER SERVICES 3500 REGENCY PARKWAY, SUITE 100 CARY, NC 27518</p> <p>CARRIER INFORMATION CARRIER: AT&T MOBILITY CARRIER SITE NAME: EAST HARTFORD CARRIER SITE NUMBER: CT1002/ FA#10034965</p>	<p>THE MODIFICATIONS PRESENTED ON THESE DRAWINGS ARE BASED ON THE RECOMMENDATIONS OUTLINED IN THE STRUCTURAL ANALYSIS COMPLETED UNDER ENGINEERING PROJECT NUMBER OAA745293_C3_03 DATED 01/30/19. SATISFACTORY COMPLETION OF THE WORK INDICATED ON THESE DRAWINGS WILL RESULT IN THE STRUCTURE MEETING THE REQUIREMENTS OF THE SPECIFICATIONS UNDER WHICH THE STRUCTURAL WAS COMPLETED.</p> <p>COMPLIANCE CODE</p> <p>ALL WORK SHALL BE PERFORMED AND MATERIALS INSTALLED IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE FOLLOWING CODES AS ADOPTED BY THE LOCAL GOVERNMENT AUTHORITIES. NOTHING IN THESE PLANS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THESE CODES.</p> <p>1. ANSI/TIA/EIA: STRUCTURAL STANDARDS (222-G EDITION) 2. INTERNATIONAL BUILDING CODE (2015 IBC) 3. CONNECTICUT STATE BUILDING CODE (2018)</p> <p>PROJECT LOCATION</p> <p>GEOGRAPHIC COORDINATES</p> <p>LATITUDE: 41.78833333 LONGITUDE: -72.60055556</p>	B-1	BILL OF MATERIALS	0
		IGN	IBC GENERAL NOTES	0
		SIC	SPECIAL INSPECTION CHECKLIST	0
		C-101	SITE PLAN	0
		A-1	MODIFICATION PROFILE	0
		A-2	FOUNDATION DETAILS	0
		A-3	REINFORCEMENT INSTALLATION DETAILS	0
		A-3A	REINFORCEMENT INSTALLATION DETAILS (CONT'D)	0
		#20SB	#20 STEP BOLT BRACKET INSTALLATION DETAILS	0
		A-4	PLATE WELDMENT INSTALLATION DETAILS	0
		A-4A	PLATE WELDMENT INSTALLATION DETAILS (CONT'D)	0
		A-4B	PLATE WELDMENT INSTALLATION DETAILS (CONT'D)	0
		FPSB	FLAT PLATE STEP BOLT BRACKET FABRICATION & INSTALLATION DETAILS	0
		F-1	PLATE FABRICATION DETAILS	0
		F-2	TERMINATION WELDMENT FABRICATION DETAILS	0
F-3	PLATE WELDMENT FABRICATION DETAILS	0		
F-4	PLATE WELDMENT FABRICATION DETAILS	0		

DRAWN BY:	CWB
APPROVED BY:	CDW/KCI
DATE DRAWN:	04/01/19
ATC JOB NO:	OAA745293_C6_06

COVER


SHEET NUMBER:
COVER

REVISION:
0



BILL OF MATERIALS

QUANTITY REQUIRED	QUANTITY PROVIDED	PART NUMBER	DESCRIPTION	LENGTH	SHEET LIST	PART WEIGHT	WEIGHT (lb)	NOTES
DYWIDAG REINFORCEMENT MATERIAL & HARDWARE								
4	4	DYD-20-ATR-30	#20 ALL THREAD ROD 30'	30'-0"	A-3	501.0	2004	GALVANIZED
22	22	BR-20C	L 6" X 3 1/2" X 3/8"	1'-0"	A-3	12.3	271	CONCENTRIC
8	8	TB-20C-12	L 6" X 3 1/2" X 3/8"	3'-6 3/4"	A-3	43.8	350	CONCENTRIC
150	158	UB-580-3125	U-BOLT ASSEMBLIES FOR #20 ROD	----	----	----	----	GALVANIZED
100	105	NG-0625-0875-A490	NEXGEN2 BLIND BOLT ASSEMB., M20 W/ SPRING SLEEVE, A490	----	----	----	----	ALLFASTENERS - 2NG2060
10	15	#20SB	STEP BOLT WELDMENT	0'-7 1/4"	#20SB	2.5	38	
PLATE REINFORCEMENT MATERIAL & HARDWARE								
1	1	302473-1	PL 1 1/4" X 4"	16'-4"	A-4, A-4A, F-1	291.8	292	GC As-Builts Structural Components Ryan Hubert 3.23.2020
1	1	302473-2	TERMINATION WELDMENT	8'-8 3/16"	A-4, A-4A, F-2	183.6	184	
3	3	302473-3	PLATE WELDMENT	20'-0"	A-4, A-4A, F-3	375.5	1127	
3	3	302473-4	PLATE WELDMENT	10'-0"	A-4, A-4A, F-4	239.3	718	
3	3	302473-5	PL 1" X 2 1/2"	2'-1 1/2"	A-4, A-4A, F-1	19.0	57	
12	13	UB-580-3125	U-BOLT ASSEMBLIES FOR #20 ROD	----	----	----	----	GALVANIZED
99	104	NG-1438-1875-A490	NEXGEN2 BLIND BOLT ASSEMB., M20 W/ SPRING SLEEVE, A490	----	----	----	----	ALLFASTENERS - 2NG2048
3	4	NG-2250-2688-A490	NEXGEN2 BLIND BOLT ASSEMB., M20 W/ SPRING SLEEVE, A490	----	----	----	----	ALLFASTENERS - 2NG2068
24	29	FPSB	FLAT PLATE STEP BOLT WELDMENT	0'-7 1/4"	FPSB	2.0	58	
FLANGE BOLTS								
12	13	BK-1000-375-A490-MAG	BOLT, 1"Ø A490 W/ HHN-LKW-FW, MAGNI 565 COATING	3 3/4"	----	----	----	ALLFASTENERS - 2STB01334A490M-A
TOTAL WEIGHT (lb)						5,099		



AMERICAN TOWER®
A.T. ENGINEERING SERVICE, PLLC
 3500 REGENCY PARKWAY
 SUITE 100
 CARY, NC 27518
 PHONE: (919) 468-0112
 COA: PEC.0001553

THESE DRAWINGS AND/OR THE ACCOMPANYING SPECIFICATION AS INSTRUMENTS OR SERVICE ARE THE EXCLUSIVE PROPERTY OF AMERICAN TOWER. THEIR USE AND PUBLICATION SHALL BE RESTRICTED TO THE ORIGINAL SITE FOR WHICH THEY ARE PREPARED. ANY USE OR DISCLOSURE OTHER THAN THAT WHICH RELATES TO AMERICAN TOWER OR THE SPECIFIED CARRIER IS STRICTLY PROHIBITED. TITLE TO THESE DOCUMENTS SHALL REMAIN THE PROPERTY OF AMERICAN TOWER WHETHER OR NOT THE PROJECT IS EXECUTED. NEITHER THE ARCHITECT NOR THE ENGINEER WILL BE PROVIDING ON-SITE CONSTRUCTION REVIEW OF THIS PROJECT. CONTRACTOR(S) MUST VERIFY ALL DIMENSIONS AND ADVISE AMERICAN TOWER OF ANY DISCREPANCIES. ANY PRIOR ISSUANCE OF THIS DRAWING IS SUPERSEDED BY THE LATEST VERSION ON FILE WITH AMERICAN TOWER.

REV.	DESCRIPTION	BY	DATE
0	FIRST ISSUE	CWB	04/01/19

ATC SITE NUMBER:
302473

ATC SITE NAME:
E H F R - PRESTIGE PARK
CONNECTICUT

SITE ADDRESS:
310 PRESTIGE PARK RD.
EAST HARTFORD, CT 06108

Passing MI Report
 Tuesday, March 24, 2020
 Hannah Childers, CWI

DRAWN BY:	CWB
APPROVED BY:	CDW/KCI
DATE DRAWN:	04/01/19
ATC JOB NO:	OAA745293_C6_06

BILL OF MATERIALS

SHEET NUMBER:	REVISION:
B-1	0

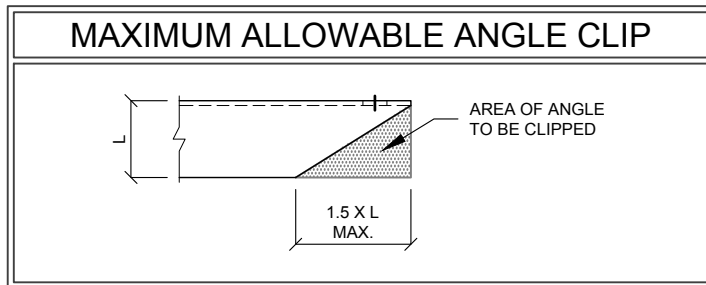
Copyright © 2019 ATC IP LLC. All Rights Reserved.

GENERAL

- ALL WORK TO BE COMPLETED PER APPLICABLE LOCAL, STATE, FEDERAL CODES AND ORDINANCES AND COMPLY WITH ATC MASTER SPECIFICATIONS FOR WIRELESS TOWER SITES. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING AND ABIDING BY ALL REQUIRED PERMITS.
- ALL WORK INDICATED ON THESE DRAWINGS SHALL BE PERFORMED BY QUALIFIED CONTRACTORS EXPERIENCED IN TOWER AND FOUNDATION CONSTRUCTION.
- THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF RECORD IMMEDIATELY OF ANY INSTALLATION INTERFERENCES. ALL NEW WORK SHALL ACCOMMODATE EXISTING CONDITIONS. DETAILS NOT SPECIFICALLY SHOWN ON THE DRAWINGS SHALL FOLLOW SIMILAR DETAILS FOR THIS JOB.
- ANY SUBSTITUTIONS SHALL CONFORM TO THE REQUIREMENTS OF THESE NOTES AND SPECIFICATIONS, AND SHOULD BE SIMILAR TO THOSE SHOWN. ALL SUBSTITUTIONS SHALL BE SUBMITTED TO THE ENGINEER OF RECORD FOR REVIEW AND APPROVAL PRIOR TO FABRICATION.
- ANY MANUFACTURED DESIGN ELEMENTS SHALL CONFORM TO THE REQUIREMENTS OF THESE NOTES AND SPECIFICATIONS AND SHOULD BE SIMILAR TO THOSE SHOWN. THESE DESIGN ELEMENTS MUST BE STAMPED BY AN ENGINEER PROFESSIONALLY REGISTERED IN THE STATE OF THE PROJECT, AND SUBMITTED TO THE ENGINEER OF RECORD FOR APPROVAL PRIOR TO FABRICATION.
- ALL WORK SHALL BE DONE IN ACCORDANCE WITH LOCAL CODES AND OSHA SAFETY REGULATIONS.
- THE CONTRACTOR IS RESPONSIBLE FOR THE DESIGN AND EXECUTION OF ALL MISCELLANEOUS SHORING, BRACING, TEMPORARY SUPPORTS, ETC. NECESSARY, PER ANSII/TIA-322 AND ANSII/ASSE A10.48, TO PROVIDE A COMPLETE AND STABLE STRUCTURE AS SHOWN ON THESE DRAWINGS.
- CONTRACTOR'S PROPOSED INSTALLATION SHALL NOT INTERFERE, NOR DENY ACCESS TO, ANY EXISTING OPERATIONAL AND SAFETY EQUIPMENT.

STRUCTURAL STEEL

- ALL DETAILING, FABRICATION AND ERECTION OF STRUCTURAL STEEL SHALL CONFORM TO THE AISC SPECIFICATIONS, LATEST EDITION.
- ALL EXPOSED STRUCTURAL STEEL MEMBERS SHALL BE HOT-DIPPED GALVANIZED AFTER FABRICATION PER ASTM A123. EXPOSED STEEL HARDWARE AND ANCHOR BOLTS SHALL BE GALVANIZED PER ASTM A153 OR B695.
- ALL U-BOLTS SHALL BE ASTM A36 OR EQUIVALENT, WITH LOCKING DEVICE, UNLESS NOTED OTHERWISE.
- FIELD CUT EDGES, EXCEPT DRILLED HOLES, SHALL BE GROUND SMOOTH.
- ALL FIELD CUT SURFACES, FIELD DRILLED HOLES & GROUND SURFACES WHERE EXISTING PAINT OR GALVANIZATION REMOVAL WAS REQUIRED SHALL BE REPAIRED WITH (2) BRUSHED COATS OF ZRC GALVILITE COLD GALVANIZING COMPOUND PER ASTM A780 AND MANUFACTURERS RECOMMENDATIONS.
- ALL STRUCTURAL STEEL EMBEDDED IN THE CONCRETE SHALL BE APPLIED WITH (2) BRUSHED COATS OF POLYGUARD CA-14 MASTIC OR EQUIVALENT. REFER TO THE MANUFACTURER SPECIFICATIONS FOR SURFACE PREPARATION AND APPLICATION. APPLICATION OF POLYGUARD 400 WRAP IS NOT ESSENTIAL.
- CONTRACTOR SHALL PERFORM WORK ON ONLY ONE (1) TOWER FACE AND REPLACE/REINFORCE ONE (1) BOLT/MEMBER AT A TIME.
- ALL FIELD DRILLED HOLES TO BE USED FOR FIELD BOLTING INSTALLATION SHALL BE STANDARD HOLES, AS DEFINED BY AISC, UNLESS NOTED OTHERWISE.



PAINT

- AS REQUIRED, CLEAN AND PAINT PROPOSED STEEL ACCORDING TO FAA ADVISORY CIRCULAR AC 70/7460-1L.

WELDING

- ALL WELDING TO BE PERFORMED BY AWS CERTIFIED WELDERS AND CONDUCTED IN ACCORDANCE WITH THE LATEST EDITION OF THE AWS WELDING CODE D1.1.
- ALL WELDS SHALL BE INSPECTED VISUALLY. IF DIRECTED BY ENGINEER OF RECORD, 25% OF WELDS SHALL BE INSPECTED WITH DYE PENETRANT OR MAGNETIC PARTICLE (100% IF REJECTABLE DEFECTS ARE FOUND) TO MEET THE ACCEPTANCE CRITERIA OF AWS D1.1. REPAIR ALL WELDS AS NECESSARY.
- INSPECTION SHALL BE PERFORMED BY AN AWS CERTIFIED WELD INSPECTOR.
- ALL ELECTRODES TO BE LOW HYDROGEN, MATCHING FILLER METAL, PER AWS D1.1, UNLESS NOTED OTHERWISE.
- ALL WELDING ON LATTICE TOWERS SHALL BE DONE WITH E70XX ELECTRODES. ALL WELDING ON POLE STRUCTURES SHALL BE DONE WITH E80XX ELECTRODES UNLESS NOTED OTHERWISE.
- PRIOR TO FIELD WELDING GALVANIZED MATERIAL, CONTRACTOR SHALL GRIND OFF GALVANIZING 1/2" BEYOND ALL FIELD WELD SURFACES. AFTER WELD AND WELD INSPECTION IS COMPLETE, REPAIR ALL GROUND AND WELDED SURFACES WITH ZRC GALVILITE COLD GALVANIZING COMPOUND PER ASTM A780 AND MANUFACTURERS RECOMMENDATIONS.

BOLT TIGHTENING PROCEDURE

- STRUCTURAL CONNECTIONS TO BE ASSEMBLED AND INSPECTED IN ACCORDANCE WITH RCSC SPECIFICATIONS.
- FLANGE BOLTS SHALL BE INSTALLED AND TIGHTENED USING DIRECT TENSION INDICATING (DTI) SQUIRTER WASHERS. DTI SQUIRTER WASHERS ARE TO BE INSTALLED AND ORIENTED / TIGHTENED PER MANUFACTURER SPECIFICATIONS TO ACHIEVE DESIRED LEVEL OF BOLT PRE-TENSION.
- IN LIEU OF USING DTI SQUIRTER WASHERS, FLANGE BOLTS MAY BE TIGHTENED USING AISC / RCSC "TURN-OF-THE-NUT" METHOD, PENDING APPROVAL BY THE ENGINEER OF RECORD (EOR). TIGHTEN FLANGE BOLTS USING THE CHART BELOW:

BOLT LENGTHS UP TO AND INCLUDING FOUR DIAMETERS

1/2"	BOLTS UP TO AND INCLUDING 2.0 INCH LENGTH	+1/3 TURN BEYOND SNUG TIGHT
5/8"	BOLTS UP TO AND INCLUDING 2.5 INCH LENGTH	+1/3 TURN BEYOND SNUG TIGHT
3/4"	BOLTS UP TO AND INCLUDING 3.0 INCH LENGTH	+1/3 TURN BEYOND SNUG TIGHT
7/8"	BOLTS UP TO AND INCLUDING 3.5 INCH LENGTH	+1/3 TURN BEYOND SNUG TIGHT
1"	BOLTS UP TO AND INCLUDING 4.0 INCH LENGTH	+1/3 TURN BEYOND SNUG TIGHT
1-1/8"	BOLTS UP TO AND INCLUDING 4.5 INCH LENGTH	+1/3 TURN BEYOND SNUG TIGHT
1-1/4"	BOLTS UP TO AND INCLUDING 5.0 INCH LENGTH	+1/3 TURN BEYOND SNUG TIGHT
1-3/8"	BOLTS UP TO AND INCLUDING 5.5 INCH LENGTH	+1/3 TURN BEYOND SNUG TIGHT
1-1/2"	BOLTS UP TO AND INCLUDING 6.0 INCH LENGTH	+1/3 TURN BEYOND SNUG TIGHT

BOLT LENGTHS OVER FOUR DIAMETERS BUT NOT EXCEEDING EIGHT DIAMETERS

1/2"	BOLTS 2.25 TO 4.0 INCH LENGTH	+1/2 TURN BEYOND SNUG TIGHT
5/8"	BOLTS 2.75 TO 5.0 INCH LENGTH	+1/2 TURN BEYOND SNUG TIGHT
3/4"	BOLTS 3.25 TO 6.0 INCH LENGTH	+1/2 TURN BEYOND SNUG TIGHT
7/8"	BOLTS 3.75 TO 7.0 INCH LENGTH	+1/2 TURN BEYOND SNUG TIGHT
1"	BOLTS 4.25 TO 8.0 INCH LENGTH	+1/2 TURN BEYOND SNUG TIGHT
1-1/8"	BOLTS 4.75 TO 9.0 INCH LENGTH	+1/2 TURN BEYOND SNUG TIGHT
1-1/4"	BOLTS 5.25 TO 10.0 INCH LENGTH	+1/2 TURN BEYOND SNUG TIGHT
1-3/8"	BOLTS 5.75 TO 11.0 INCH LENGTH	+1/2 TURN BEYOND SNUG TIGHT
1-1/2"	BOLTS 6.25 TO 12.0 INCH LENGTH	+1/2 TURN BEYOND SNUG TIGHT

- SPLICE BOLTS SUBJECT TO DIRECT TENSION SHALL BE INSTALLED AND TIGHTENED AS PER SECTION 8.2.1 OF THE AISC "SPECIFICATION FOR STRUCTURAL JOINTS USING A325 OR A490 BOLTS", LOCATED IN THE AISC MANUAL OF STEEL CONSTRUCTION. THE INSTALLATION PROCEDURE IS PARAPHRASED AS FOLLOWS:

FASTENERS SHALL BE INSTALLED IN PROPERLY ALIGNED HOLES AND TIGHTENED BY ONE OF THE METHODS DESCRIBED IN SUBSECTION 8.2.1 THROUGH 8.2.4.

8.2.1 TURN-OF-NUT PRETENSIONING

BOLTS SHALL BE INSTALLED IN ALL HOLES OF THE CONNECTION AND BROUGHT TO A SNUG TIGHT CONDITION AS DEFINED IN SECTION 8.1, 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 SYSTEMATICALLY.

- ALL OTHER BOLTED CONNECTIONS SHALL BE BROUGHT TO A SNUG TIGHT CONDITION AS DEFINED IN SECTION 8.1 OF THE SPECIFICATION.

ALL BOLT HOLES SHALL BE ALIGNED TO PERMIT INSERTION OF THE BOLTS WITHOUT UNDUE DAMAGE TO THE THREADS. BOLTS SHALL BE PLACED IN ALL HOLES WITH WASHERS POSITIONED AS REQUIRED AND NUTS THREADED TO COMPLETE THE ASSEMBLY. COMPACTING THE JOINT TO THE SNUG-TIGHT CONDITION SHALL PROGRESS SYSTEMATICALLY FROM THE MOST RIGID PART OF THE JOINT. THE SNUG-TIGHTENED CONDITION IS THE TIGHTNESS THAT IS ATTAINED WITH A FEW IMPACTS OF AN IMPACT WRENCH OR THE FULL EFFORT OF AN IRONWORKER USING AN ORDINARY SPUD WRENCH TO BRING THE CONNECTED PLIES INTO FIRM CONTACT.

APPLICABLE CODES AND STANDARDS

- ANSI/TIA: STRUCTURAL STANDARDS FOR STEEL ANTENNA TOWERS AND ANTENNA SUPPORTING STRUCTURES, 222-G EDITION.
- 2018 CONNECTICUT STATE BUILDING CODE.
- 2015 INTERNATIONAL BUILDING CODE.
- ACI 318: AMERICAN CONCRETE INSTITUTE, BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE, 318-02.
- CRSI: CONCRETE REINFORCING STEEL INSTITUTE, MANUAL OF STANDARD PRACTICE, LATEST EDITION.
- AISC: AMERICAN INSTITUTE OF STEEL CONSTRUCTION, MANUAL OF STEEL CONSTRUCTION, LATEST EDITION.
- AWS: AMERICAN WELDING SOCIETY D1.1, STRUCTURAL WELDING CODE, LATEST EDITION.

SPECIAL INSPECTION

- A QUALIFIED INDEPENDENT TESTING LABORATORY, EMPLOYED BY THE OWNER, SHALL PERFORM INSPECTION AND TESTING IN ACCORDANCE WITH IBC 2015, SECTION 1704 AS REQUIRED BY PROJECT SPECIFICATIONS FOR THE FOLLOWING CONSTRUCTION WORK:
 - STRUCTURAL WELDING (CONTINUOUS INSPECTION OF FIELD WELD ONLY)
 - HIGH STRENGTH BOLTS (PERIODIC INSPECTION OF A325 EXTENSION FLANGE BOLTS TO BE TIGHTENED PER "TURN-OF-THE-NUT" METHOD)
- THE INSPECTION AGENCY SHALL SUBMIT INSPECTION AND TEST REPORTS TO THE BUILDING DEPARTMENT, THE ENGINEER OF RECORD, AND THE OWNER IN ACCORDANCE WITH IBC 2015, SECTION 1704, UNLESS THE FABRICATOR IS APPROVED BY THE BUILDING OFFICIAL TO PERFORM SUCH WORK WITHOUT THE SPECIAL INSPECTIONS.

**GC As-Builts
Structural Components
Ryan Hubert
3.23.2020**

**Passing MI Report
Tuesday, March 24, 2020
Hannah Childers, CWI**

AMERICAN TOWER®
A.T. ENGINEERING SERVICE, PLLC
 3500 REGENCY PARKWAY
 SUITE 100
 CARY, NC 27518
 PHONE: (919) 468-0112
 COA: PEC.0001553

THESE DRAWINGS AND/OR THE ACCOMPANYING SPECIFICATION AS INSTRUMENTS OR SERVICE ARE THE EXCLUSIVE PROPERTY OF AMERICAN TOWER. THEIR USE AND PUBLICATION SHALL BE RESTRICTED TO THE ORIGINAL SITE FOR WHICH THEY ARE PREPARED. ANY USE OR DISCLOSURE OTHER THAN THAT WHICH RELATES TO AMERICAN TOWER OR THE SPECIFIED CARRIER IS STRICTLY PROHIBITED. TITLE TO THESE DOCUMENTS SHALL REMAIN THE PROPERTY OF AMERICAN TOWER WHETHER OR NOT THE PROJECT IS EXECUTED. NEITHER THE ARCHITECT NOR THE ENGINEER WILL BE PROVIDING ON-SITE CONSTRUCTION REVIEW OF THIS PROJECT. CONTRACTOR(S) MUST VERIFY ALL DIMENSIONS AND ADVISE AMERICAN TOWER OF ANY DISCREPANCIES. ANY PRIOR ISSUANCE OF THIS DRAWING IS SUPERSEDED BY THE LATEST VERSION ON FILE WITH AMERICAN TOWER.

REV.	DESCRIPTION	BY	DATE
0	FIRST ISSUE	CWB	04/01/19

ATC SITE NUMBER:
302473

ATC SITE NAME:
E H F R - PRESTIGE PARK

CONNECTICUT

SITE ADDRESS:
310 PRESTIGE PARK RD.
EAST HARTFORD, CT 06108

DRAWN BY:	CWB
APPROVED BY:	CDW/KCI
DATE DRAWN:	04/01/19
ATC JOB NO:	OAA745293_C6_06

IBC GENERAL NOTES

SHEET NUMBER:	REVISION:
IGN	0

Copyright © 2019 ATC IP LLC, All Rights Reserved.

MODIFICATION INSPECTION NOTES

THE SPECIAL INSPECTION (SI) PROCEDURE IS INTENDED TO CONFIRM THAT CONSTRUCTION AND INSTALLATION MEETS ENGINEERING DESIGN, ATC PROCEDURES AND ATC STANDARD SPECIFICATIONS FOR WIRELESS TOWER SITES.

TO ENSURE THAT THE REQUIREMENTS OF THE SI ARE MET, IT IS VITAL THAT THE GENERAL CONTRACTOR AND THE INSPECTOR BEGIN COMMUNICATING AND COORDINATING AS SOON AS A PO IS RECEIVED FROM AMERICAN TOWER CORPORATION (ATC). IT IS EXPECTED THAT EACH PARTY WILL PROACTIVELY REACH OUT TO THE OTHER PARTY. IF CONTACT INFORMATION IS NOT KNOWN, CONTACT YOUR AMERICAN TOWER POINT OF CONTACT.

SPECIAL INSPECTOR

THE SPECIAL INSPECTOR IS REQUIRED TO CONTACT THE GENERAL CONTRACTOR AS SOON AS RECEIVING A PO FROM ATC. UPON RECEIVING A PO FROM ATC THE SPECIAL INSPECTOR AT A MINIMUM MUST:

- REVIEW THE REQUIREMENTS OF THE SI CHECKLIST.
- WORK WITH THE GENERAL CONTRACTOR TO DEVELOP A SCHEDULE TO CONDUCT ON-SITE INSPECTIONS, INCLUDING FOUNDATION INSPECTIONS.
- ANY CONCERNS WITH THE SCOPE OF WORK OR PROJECT COMMITMENT MUST BE RELAYED TO THE ATC POINT OF CONTACT IMMEDIATELY.

THE SPECIAL INSPECTOR IS RESPONSIBLE FOR COLLECTING ALL GENERAL CONTRACTOR INSPECTION AND TEST REPORTS, REVIEWING THESE DOCUMENTS FOR ADHERENCE TO CONTRACT DOCUMENTS, CONDUCTING THE IN-FIELD INSPECTIONS, AND SUBMITTING THE SI REPORT TO AMERICAN TOWER CORPORATION.

GENERAL CONTRACTOR

THE GENERAL CONTRACTOR IS REQUIRED TO CONTACT THE SI INSPECTOR AS SOON AS RECEIVING A PO FOR THE MODIFICATION INSTALLATION OR TURNKEY PROJECT TO, AT A MINIMUM:

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

THE GENERAL CONTRACTOR SHALL PERFORM AND RECORD THE TEST AND INSPECTION RESULTS IN ACCORDANCE WITH THE REQUIREMENTS OF THE SI CHECKLIST.

**Passing MI Report
Tuesday, March 24, 2020
Hannah Childers, CWI**

**GC As-Builts
Structural Components
Ryan Hubert
3.23.2020**

SPECIAL INSPECTION CHECKLIST

INSPECTION DOCUMENT	DESCRIPTION	INSPECTION TESTING REQUIRED	RESPONSIBILITY	SI REVIEW REQUIRED			INSPECTION FREQUENCY	
				PRE CX	DURING CX	POST CX	PERIODIC	CONTINUOUS
SPECIAL INSPECTION FIELD WORK & REPORT	DOCUMENTATION AND SITE VISIT CONDUCTED BY AN ATC APPROVED SPECIAL INSPECTOR AS REQUIRED BY ATC AND OTHER AUTHORITIES HAVING JURISDICTION. INSPECTION PARAMETERS TO FOLLOW ATC'S STANDARD SPECIFICATION FOR WIRELESS TOWER SITES.	✓	SI			✓		
ENGINEERING ASSEMBLY DRAWINGS	GC SHALL SUBMIT DRAWINGS TO SI FOR INCLUSION IN SI REPORT	✓	GC	✓				
FABRICATED MATERIAL VERIFICATION & INSPECTION	MTR AND OR MILL CERTIFICATIONS FOR SUPPLIED MATERIALS GC SHALL SUPPLY SI WITH REPORTS TO BE INCLUDED IN SI REPORT WHEN REQUIRED BY ATC	✓	SI	✓				
CERTIFIED WELD INSPECTION	INSPECTION AND REPORT OF STRUCTURAL WELDING PERFORMED DURING PROJECT COMPLETED BY A CWI AND INCLUDED WITHIN SI REPORT	✓	GC / TA	✓	✓	✓	✓	
FOUNDATION INSPECTION & VERIFICATION	VISUAL OBSERVATION AND APPROVAL OF FOUNDATION EXCAVATION, REBAR PLACEMENT, CASING/SHORING/FORMING PLACEMENT, AND ANCHOR TEMPLATE AND ANCHOR PLACEMENT - TO BE SI APPROVED PRIOR TO CONCRETE POUR AND DOCUMENTED IN THE SI REPORT		SI					
ANCHOR, ROCK ANCHOR OR HELICAL PULL-OUT TEST	PULL TESTING OF INSTALLED ANCHORS TO BE COMPLETED AND DOCUMENTED IN SI REPORT		GC / TA					
CONCRETE INSPECTION & VERIFICATION	CONCRETE MIX DESIGN, SLUMP TEST, COMPRESSIVE TESTING, AND SAMPLE GATHERING TECHNIQUES ARE TO BE PROVIDED FOR INCLUSION IN THE SI REPORT. SI SHALL VERIFY CONCRETE PLACEMENT AS REQUIRED BY THE DESIGN DOCUMENTS (INSPECTION FREQUENCY IS MARKED CONTINUOUS)		GC / TA					
DYWIDAG PLACEMENT/ANCHOR BOLT EMBEDMENT - EPOXY/GROUT INSTALL	ANCHOR/BAR EMBEDMENT, HOLE SIZE, EPOXY/GROUT TYPE, INSTALLATION TEMPERATURE AND INSTALLATION SHALL BE VERIFIED BY THE SI AND INCLUDED IN THE SI REPORT	✓	GC / SI		✓			✓
BASE PLATE GROUT INSPECTION & VERIFICATION	BASE PLATE GROUTING TYPE AND PLACEMENT SHALL BE CONFIRMED BY THE SI AND INCLUDED IN THE SI REPORT		GC / SI					
EARTHWORK INSPECTION & VERIFICATION	EXCAVATION, FILL, SLOPE, GRADE AND OTHER EARTHWORK REQUIREMENTS PER PLANS SHALL BE VERIFIED BY THE SI AND INCLUDED IN THE SI REPORT		GC / TA					
COMPACTION VERIFICATION	CONTRACTOR SHALL PROVIDE AN INDEPENDENT THIRD PARTY CERTIFIED INSPECTION WHICH PROVIDES TEST RESULTS FOR COMPACTION TEST OF SOILS IN PLACE TO ASTM STANDARDS.		GC / TA					
GROUND TESTING & VERIFICATION	GC SHALL PROVIDE DOCUMENTATION SHOWING THAT THE GROUNDING SYSTEM SHALL HAVE A MEASURED RESISTANCE TO THE GROUND OF NOT MORE THAN THE RECOMMENDED 10 OHMS. PER THE ATC CONSTRUCTION SPECIFICATION UNDER SECTION 2.15 THIS DOCUMENTATION MUST BE AN INDEPENDENT CERTIFICATION.		GC					
STEEL CONSTRUCTION INSPECTION & VERIFICATION	VISUAL OBSERVATION AND APPROVAL OF STEEL CONSTRUCTION TO BE PERFORMED BY THE SI. INSPECTION TO INCLUDE VERIFICATION OF NEW CONSTRUCTION OR MODIFICATION OF EXISTING CONSTRUCTION PER ENGINEERED PLANS. DETAILED VERIFICATION SHALL BE INCLUDED IN SI REPORT.	✓	SI			✓	✓	
ON-SITE COLD GALVANIZING VERIFICATION	SI SHALL VERIFY WITH GC ALL COLD GALVANIZATION TYPE AND APPLICATION AND INCLUDE SUMMARY IN SI REPORT	✓	GC			✓	✓	
GUY WIRE TENSIONING & TOWER ALIGNMENT REPORT	GC SHALL PROVIDE SI EVIDENCE OF PROPER GUY TENSIONING AND TOWER PLUMB PER PLANS. SI SHALL VERIFY AND INCLUDE PLUMB AND TENSION REPORTING IN SI REPORT.		GC					
GC AS-BUILT DRAWINGS WITH CONSTRUCTION RED-LINES	GC SHALL SUBMIT "AS-BUILT" DRAWINGS INDICATING ANY APPROVED CHANGES TO ENGINEERED PLANS TO SI FOR APPROVAL/REVIEW AND INCLUSION IN SI REPORT	✓	GC			✓		
SI AS-BUILT DRAWINGS WITH INSPECTION RED-LINES (AS REQUIRED)	SI SHALL SUBMIT "AS-BUILT" DRAWINGS INDICATING ANY APPROVED CHANGES TO ENGINEERED PLANS WITHIN SI REPORT	✓	SI			✓		
TIA INSPECTION	SI SHALL COMPLETE TIA INSPECTION AND PROVIDE SEPARATE TIA INSPECTION DOCUMENTATION TO ATC CM		SI					
PHOTOGRAPHS	PHOTOGRAPHIC EVIDENCE OF SPECIAL INSPECTION, ON SITE REMEDIATION, AND ITEMS FAILING INSPECTION & REQUIRING FOLLOW UP TO BE INCLUDED WITHIN THE SI REPORT. COMPLETE PHOTO LOG IS TO BE SUBMITTED WITHIN SI REPORT.	✓	GC / SI			✓		

NOTE: SPECIAL INSPECTIONS ARE INTENDED TO BE A COLLABORATIVE EFFORT BETWEEN GC AND SI. WHENEVER POSSIBLE GC IS TO PROVIDE SI WITH PHOTOGRAPHIC OR OTHER ACCEPTABLE EVIDENCE OF PROPER INSTALLATION IF PERIODIC INSPECTION FREQUENCY IS ACCEPTABLE. THE GC AND SI SHALL WORK TO COMPILE EVIDENCE OF PROPER CONSTRUCTION AND LIMIT THE NUMBER OF SI SITE VISITS REQUIRED.

TABLE KEY:
 SI - ATC APPROVED SPECIAL INSPECTOR
 GC - GENERAL CONTRACTOR
 TA - 3RD PARTY TESTING AGENCY
 CX - CONSTRUCTION
 CM - CONSTRUCTION MANAGER
 ATC - AMERICAN TOWER CORPORATION



THESE DRAWINGS AND/OR THE ACCOMPANYING SPECIFICATION AS INSTRUMENTS OR SERVICE ARE THE EXCLUSIVE PROPERTY OF AMERICAN TOWER. THEIR USE AND PUBLICATION SHALL BE RESTRICTED TO THE ORIGINAL SITE FOR WHICH THEY ARE PREPARED. ANY USE OR DISCLOSURE OTHER THAN THAT WHICH RELATES TO AMERICAN TOWER OR THE SPECIFIED CARRIER IS STRICTLY PROHIBITED. TITLE TO THESE DOCUMENTS SHALL REMAIN THE PROPERTY OF AMERICAN TOWER WHETHER OR NOT THE PROJECT IS EXECUTED. NEITHER THE ARCHITECT NOR THE ENGINEER WILL BE PROVIDING ON-SITE CONSTRUCTION REVIEW OF THIS PROJECT. CONTRACTOR(S) MUST VERIFY ALL DIMENSIONS AND ADVISE AMERICAN TOWER OF ANY DISCREPANCIES. ANY PRIOR ISSUANCE OF THIS DRAWING IS SUPERSEDED BY THE LATEST VERSION ON FILE WITH AMERICAN TOWER.

REV.	DESCRIPTION	BY	DATE
0	FIRST ISSUE	CWB	04/01/19
△			
△			
△			
△			

ATC SITE NUMBER:
302473

ATC SITE NAME:
**E H F R - PRESTIGE PARK
CONNECTICUT**

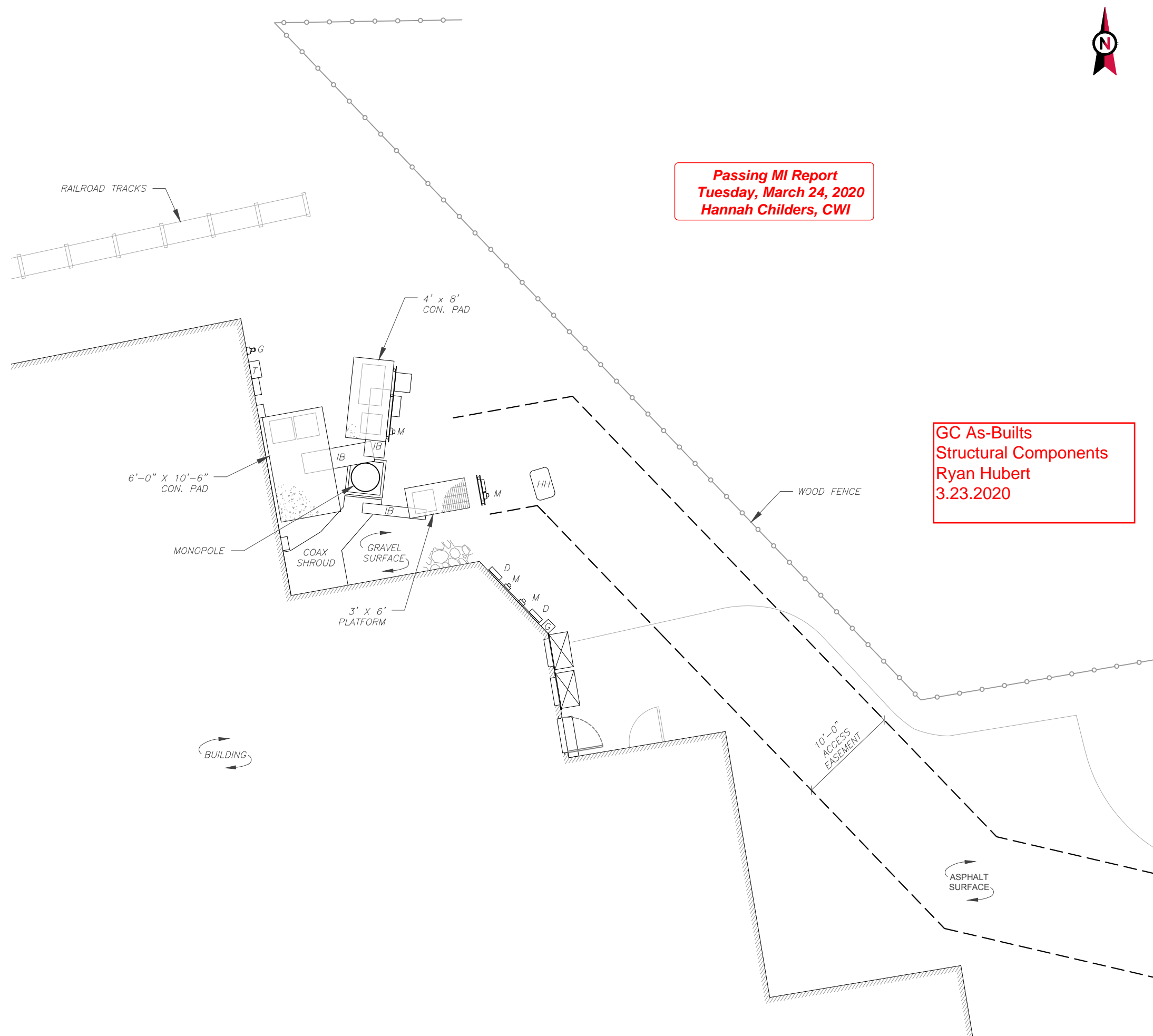
SITE ADDRESS:
310 PRESTIGE PARK RD.
EAST HARTFORD, CT 06108

DRAWN BY:	CWB
APPROVED BY:	CDW/KCI
DATE DRAWN:	04/01/19
ATC JOB NO:	OAA745293_C6_06

SPECIAL INSPECTION CHECKLIST	
SHEET NUMBER: SIC	REVISION: 0

Copyright © 2019 ATC IP LLC, All Rights Reserved.

LEGEND	
⊗	GROUNDING TEST WELL
AV, A/V	AIR VENT
ATS	AUTOMATIC TRANSFER SWITCH
B	BOLLARD
C	CABINET
CS	COAX SHROUD
CSC	CELL SITE CABINET
D	DISCONNECT
E	ELECTRICAL
F	FIBER
GEN	GENERATOR
G	GENERATOR RECEPTACLE
HH, V	HAND HOLE, VAULT
HFC	HYDROGEN FUEL CELL
HSM	HYDROGEN STORAGE MATERIAL
IB	ICE BRIDGE
K	KENTROX BOX
LC	LIGHTING CONTROL
LPG	LIQUID PROPANE GAS
M	METER
OHW	OVERHEAD WIRE
P	POWER
PB	PULL BOX
PP	POWER POLE
T	TELCO
TRN	TRANSFORMER
---	PROPERTY LINE
- - -	ADJACENT PROPERTY LINE
- · - · -	LEASE AREA
- · - · -	EASEMENT
○ ○ ○ ○	WOOD FENCE
— — — —	WIRE FENCE
□ □ □ □	METAL FENCE
— — — —	GUARD RAIL
x x x x	CHAINLINK FENCE
— — — —	ROAD (DIRT)
— — — —	ROAD (STONE)
— — — —	ROAD (PAVED)



**Passing MI Report
Tuesday, March 24, 2020
Hannah Childers, CWI**

**GC As-Builts
Structural Components
Ryan Hubert
3.23.2020**



AMERICAN TOWER®
A.T. ENGINEERING SERVICE, PLLC
 3500 REGENCY PARKWAY
 SUITE 100
 CARY, NC 27518
 PHONE: (919) 468-0112
 COA: PEC.0001553

THESE DRAWINGS AND/OR THE ACCOMPANYING SPECIFICATION AS INSTRUMENTS OR SERVICE ARE THE EXCLUSIVE PROPERTY OF AMERICAN TOWER. THEIR USE AND PUBLICATION SHALL BE RESTRICTED TO THE ORIGINAL SITE FOR WHICH THEY ARE PREPARED. ANY USE OR DISCLOSURE OTHER THAN THAT WHICH RELATES TO AMERICAN TOWER OR THE SPECIFIED CARRIER IS STRICTLY PROHIBITED. TITLE TO THESE DOCUMENTS SHALL REMAIN THE PROPERTY OF AMERICAN TOWER WHETHER OR NOT THE PROJECT IS EXECUTED. NEITHER THE ARCHITECT NOR THE ENGINEER WILL BE PROVIDING ON-SITE CONSTRUCTION REVIEW OF THIS PROJECT. CONTRACTOR(S) MUST VERIFY ALL DIMENSIONS AND ADVISE AMERICAN TOWER OF ANY DISCREPANCIES. ANY PRIOR ISSUANCE OF THIS DRAWING IS SUPERSEDED BY THE LATEST VERSION ON FILE WITH AMERICAN TOWER.

REV.	DESCRIPTION	BY	DATE
0	FIRST ISSUE	CWB	04/01/19

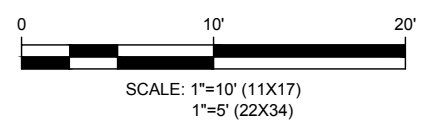
ATC SITE NUMBER:
302473

ATC SITE NAME:
E H F R - PRESTIGE PARK
CONNECTICUT

SITE ADDRESS:
310 PRESTIGE PARK RD.
EAST HARTFORD, CT 06108

DRAWN BY:	CWB
APPROVED BY:	CDW/KCI
DATE DRAWN:	04/01/19
ATC JOB NO:	OAA745293_C6_06

SITE PLAN	
SHEET NUMBER:	REVISION:
C-101	0



Copyright © 2019 ATC IP, LLC. All Rights Reserved.

AT&T MOBILITY
EL: 153.0' [PROPOSED]

EL: 150.0'
[TOP OF STRUCTURE]

SECTION 4

EL: 110.0'

SECTION 3

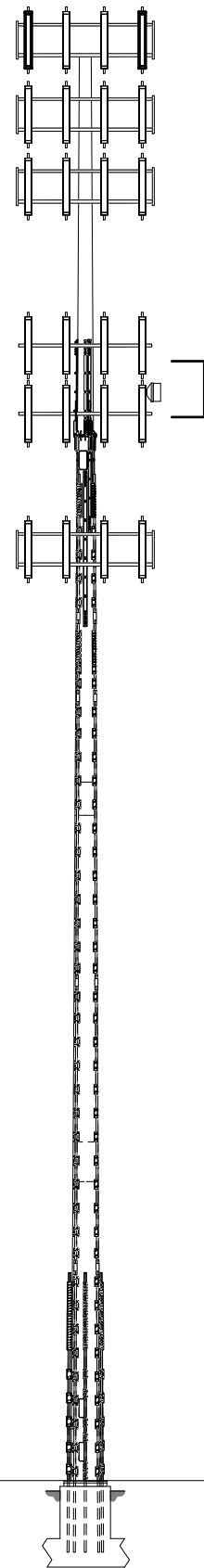
EL: 73.6'

SECTION 2

EL: 35.7'

SECTION 1

EL: 0.0'
[BOTTOM OF STRUCTURE]



TOWER ELEVATION VIEW

**Passing MI Report
Tuesday, March 24, 2020
Hannah Childers, CWI**

A 3" long by 1/16" deep gouge is present in plate 2 on flat 1 below the upper termination bolts.

MOUNT MAY REQUIRE SUPPORT AND RE-MOUNTING DURING INSTALLATION. SEE NOTE BELOW.

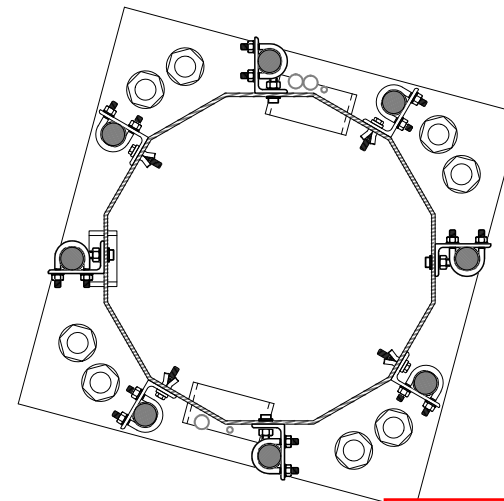
INSTALL (4) PLATE REINFORCEMENTS [PL 1 1/4" X 4"] FROM EL: 90.0' TO 110.0'. AND INSTALL (3) PLATE REINFORCEMENTS [PL 1 1/4" X 5"] FROM EL: 110.0' TO 120.0' SEE SHEETS A-4 THRU A-4B FOR INSTALLATION DETAILS & UPGRADE 1"Ø FLANGE BOLTS WITH NEW 1"Ø X 3 3/4" A490 BOLTS [BK-1000-375-A490-MAG] SEE FLANGE BOLT INSTALLATION DETAIL.

shim plates were installed to avoid the horizontal tower seam weld.

INSTALL (4) DYWIDAG #20 ALL THREAD RODS FROM EL: -7.5' TO 22.5'. SEE SHEETS A-2 TO A-3A FOR INSTALLATION DETAILS.

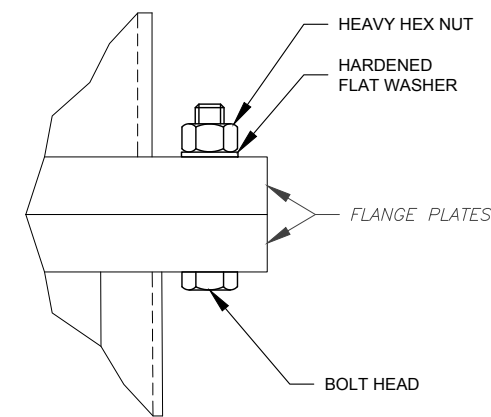
ADDITIONAL TOWER INFORMATION:

1. PRE-MOD MAPPING WAS COMPLETED FOR THIS PROJECT.



**GC As-Builts
Structural Components
Ryan Hubert
3.23.2020**

COAX DISTRIBUTION
EXTERIOR ONLY



FLANGE BOLT INSTALLATION
TYPICAL DETAIL

ALL FLANGE BOLTS SHALL BE TIGHTENED BY USING AISC/RCSC "TURN-OF-THE-NUT" METHODOLOGY. SEE SHEET IGN FOR DETAILS.

NOTES:

1. PROPOSED AT&T MOBILITY COAX TO BE INSTALLED INSIDE MONOPOLE.
2. CONTACT AMERICAN TOWER FIELD OPERATIONS WHEN EXISTING EQUIPMENT INTERFERES WITH INSTALLATION OF MODIFICATIONS. ONCE APPROVED, EXISTING EQUIPMENT MAY BE TEMPORARILY MOVED DURING INSTALLATION & REINSTALLED TO THE ORIGINAL HEIGHT & LOCATION BY CONTRACTOR POST COMPLETION OF MODIFICATIONS.



AMERICAN TOWER®
A.T. ENGINEERING SERVICE, PLLC
3500 REGENCY PARKWAY
SUITE 100
CARY, NC 27518
PHONE: (919) 468-0112
COA: PEC.0001553

THESE DRAWINGS AND/OR THE ACCOMPANYING SPECIFICATION AS INSTRUMENTS OF SERVICE ARE THE EXCLUSIVE PROPERTY OF AMERICAN TOWER. THEIR USE AND PUBLICATION SHALL BE RESTRICTED TO THE ORIGINAL SITE FOR WHICH THEY ARE PREPARED. ANY USE OR DISCLOSURE OTHER THAN THAT WHICH RELATES TO AMERICAN TOWER OR THE SPECIFIED CARRIER IS STRICTLY PROHIBITED. TITLE TO THESE DOCUMENTS SHALL REMAIN THE PROPERTY OF AMERICAN TOWER WHETHER OR NOT THE PROJECT IS EXECUTED. NEITHER THE ARCHITECT NOR THE ENGINEER WILL BE PROVIDING ON-SITE CONSTRUCTION REVIEW OF THIS PROJECT. CONTRACTOR(S) MUST VERIFY ALL DIMENSIONS AND ADVISE AMERICAN TOWER OF ANY DISCREPANCIES. ANY PRIOR ISSUANCE OF THIS DRAWING IS SUPERSEDED BY THE LATEST VERSION ON FILE WITH AMERICAN TOWER.

REV.	DESCRIPTION	BY	DATE
0	FIRST ISSUE	CWB	04/01/19

ATC SITE NUMBER:
302473

ATC SITE NAME:
E H F R - PRESTIGE PARK
CONNECTICUT

SITE ADDRESS:
310 PRESTIGE PARK RD.
EAST HARTFORD, CT 06108

DRAWN BY:	CWB
APPROVED BY:	CDW/KCI
DATE DRAWN:	04/01/19
ATC JOB NO:	OAA745293_C6_06

MODIFICATION PROFILE

SHEET NUMBER: **A-1** REVISION: **0**



AMERICAN TOWER®
A.T. ENGINEERING SERVICE, PLLC
 3500 REGENCY PARKWAY
 SUITE 100
 CARY, NC 27518
 PHONE: (919) 468-0112
 COA: PEC.0001553

THESE DRAWINGS AND/OR THE ACCOMPANYING SPECIFICATION AS INSTRUMENTS OR SERVICE ARE THE EXCLUSIVE PROPERTY OF AMERICAN TOWER. THEIR USE AND PUBLICATION SHALL BE RESTRICTED TO THE ORIGINAL SITE FOR WHICH THEY ARE PREPARED. ANY USE OR DISCLOSURE OTHER THAN THAT WHICH RELATES TO AMERICAN TOWER OR THE SPECIFIED CARRIER IS STRICTLY PROHIBITED. TITLE TO THESE DOCUMENTS SHALL REMAIN THE PROPERTY OF AMERICAN TOWER WHETHER OR NOT THE PROJECT IS EXECUTED. NEITHER THE ARCHITECT NOR THE ENGINEER WILL BE PROVIDING ON-SITE CONSTRUCTION REVIEW OF THIS PROJECT. CONTRACTOR(S) MUST VERIFY ALL DIMENSIONS AND ADVISE AMERICAN TOWER OF ANY DISCREPANCIES. ANY PRIOR ISSUANCE OF THIS DRAWING IS SUPERSEDED BY THE LATEST VERSION ON FILE WITH AMERICAN TOWER.

REV.	DESCRIPTION	BY	DATE
0	FIRST ISSUE	CWB	04/01/19

ATC SITE NUMBER:
302473
 ATC SITE NAME:
E H F R - PRESTIGE PARK
CONNECTICUT
 SITE ADDRESS:
 310 PRESTIGE PARK RD.
 EAST HARTFORD, CT 06108

DRAWN BY:	CWB
APPROVED BY:	CDW/KCI
DATE DRAWN:	04/01/19
ATC JOB NO:	OAA745293_C6_06

FOUNDATION DETAILS

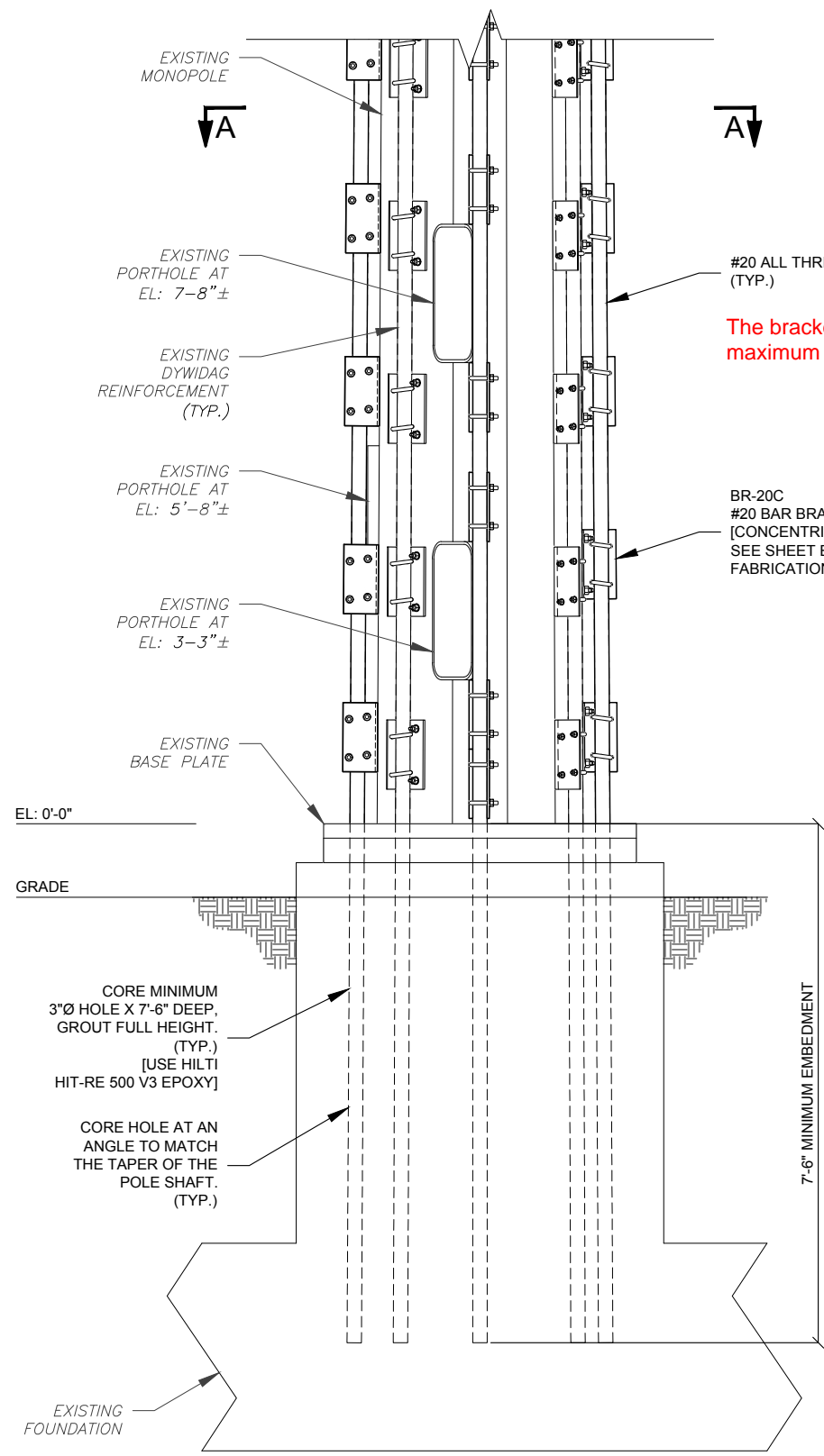
SHEET NUMBER:
A-2
 REVISION:
0

Passing MI Report
Tuesday, March 24, 2020
Hannah Childers, CWI

Shift rod 2-1/4"
counter clockwise
to clear port

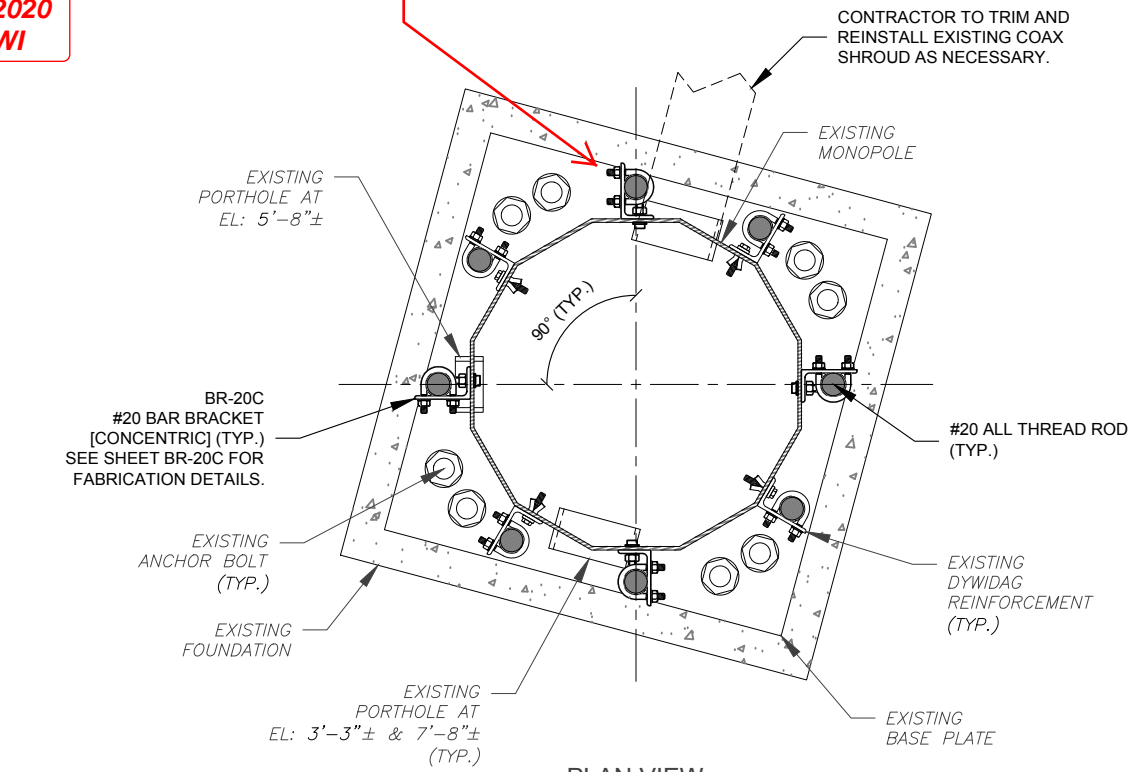
The bracket spacing exceeds the 30" specified
maximum around port holes on flats 1, 4, & 10.

GC As-Built
Structural Components
Ryan Hubert
3.23.2020

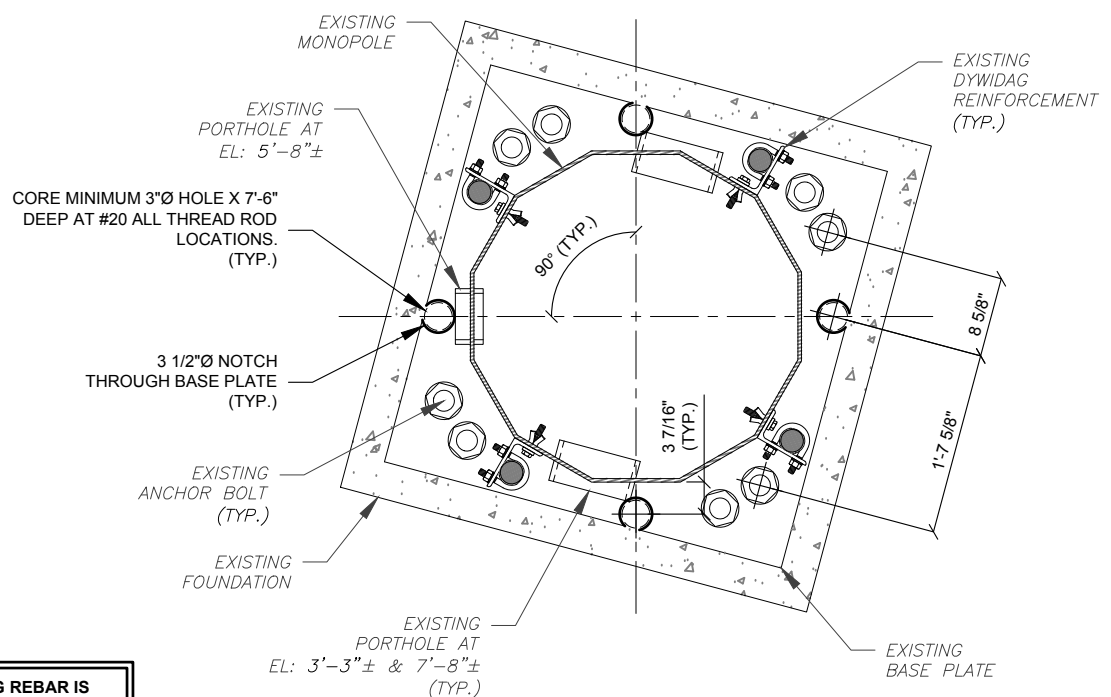


ELEVATION VIEW
FOUNDATION DETAIL

NOTE:
CONTRACTOR TO CONTACT ENGINEER OF RECORD IF EXISTING REBAR IS
ENCOUNTERED DURING CORING.



PLAN VIEW
SECTION "A-A"

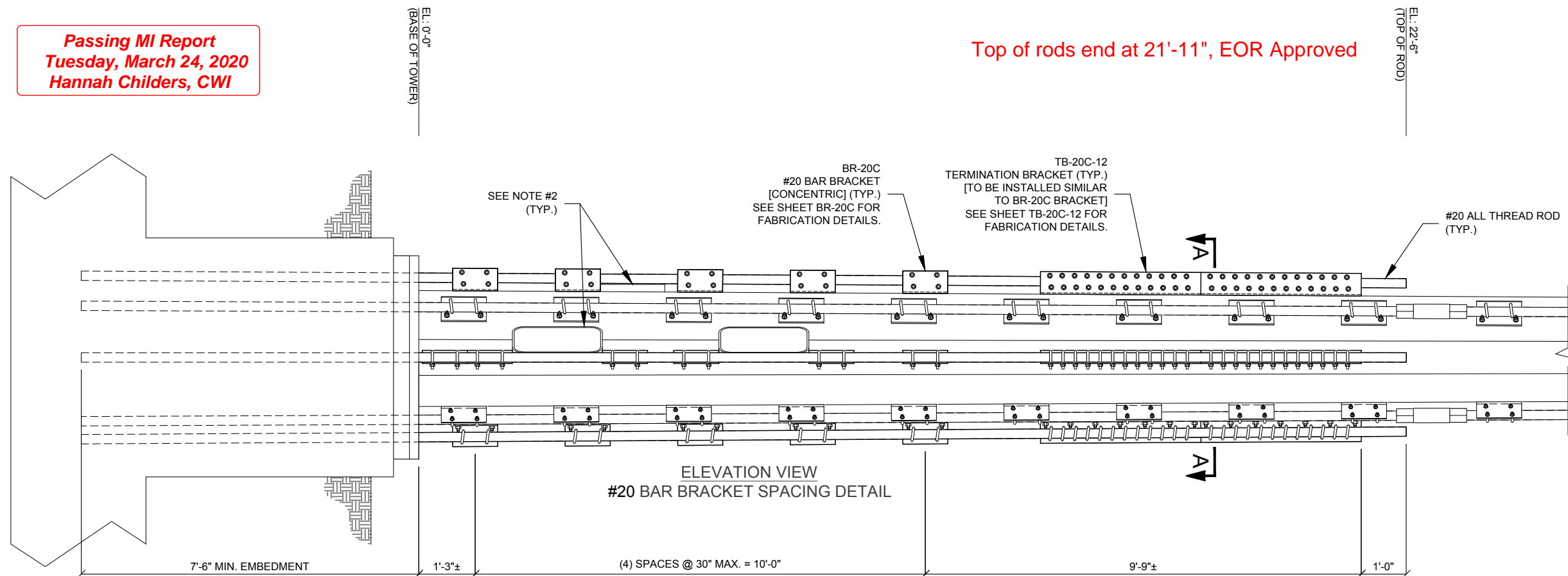


PLAN VIEW
HOLE DRILL DETAIL

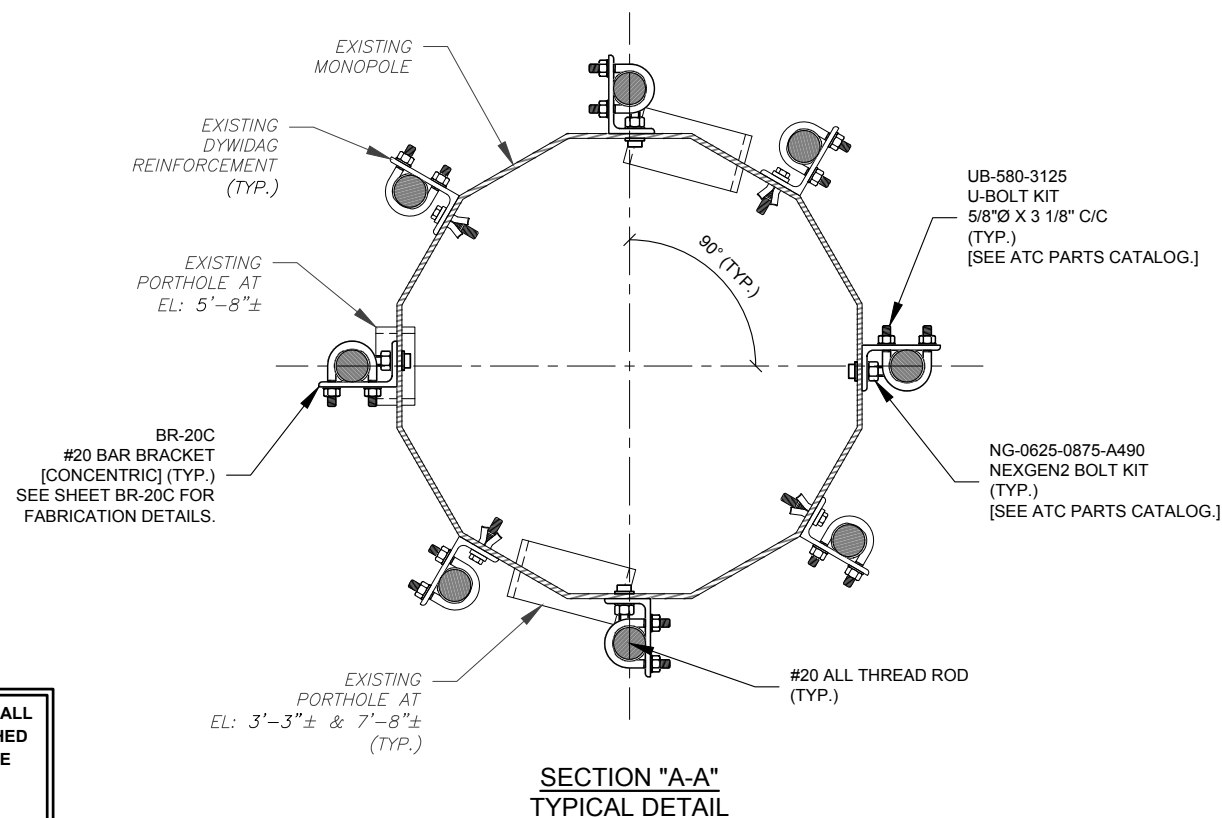
Copyright © 2019 ATC IP, LLC. All Rights Reserved.

Passing MI Report
 Tuesday, March 24, 2020
 Hannah Childers, CWI

Top of rods end at 21'-11", EOR Approved



GC As-Built
 Structural Components
 Ryan Hubert
 3.23.2020



- NOTES:
1. REPLACE ANY EXISTING STEP BOLTS THAT INTERFERE WITH THE NEW #20 ALL THREAD ROD REINFORCEMENTS. THE NEW STEP BOLTS SHALL BE ATTACHED TO THE #20 ALL THREAD RODS IN THE SAME APPROXIMATE LOCATION. SEE SHEET #20SB FOR INSTALLATION DETAILS.
 2. PLACE A BRACKET (BR-20C) DIRECTLY ABOVE AND BELOW ANY EXISTING PORTHOLE AS REQUIRED.
 3. SEE SHEET A-3A FOR #20 ALL THREAD ROD BRACKET INSTALLATION DETAILS.

AMERICAN TOWER®
 A.T. ENGINEERING SERVICE, PLLC
 3500 REGENCY PARKWAY
 SUITE 100
 CARY, NC 27518
 PHONE: (919) 468-0112
 COA: PEC.0001553

THESE DRAWINGS AND/OR THE ACCOMPANYING SPECIFICATION AS INSTRUMENTS OF SERVICE ARE THE EXCLUSIVE PROPERTY OF AMERICAN TOWER. THEIR USE AND PUBLICATION SHALL BE RESTRICTED TO THE ORIGINAL SITE FOR WHICH THEY ARE PREPARED. ANY USE OR DISCLOSURE OTHER THAN THAT WHICH RELATES TO AMERICAN TOWER OR THE SPECIFIED CARRIER IS STRICTLY PROHIBITED. TITLE TO THESE DOCUMENTS SHALL REMAIN THE PROPERTY OF AMERICAN TOWER WHETHER OR NOT THE PROJECT IS EXECUTED. NEITHER THE ARCHITECT NOR THE ENGINEER WILL BE PROVIDING ON-SITE CONSTRUCTION REVIEW OF THIS PROJECT. CONTRACTOR(S) MUST VERIFY ALL DIMENSIONS AND ADVISE AMERICAN TOWER OF ANY DISCREPANCIES. ANY PRIOR ISSUANCE OF THIS DRAWING IS SUPERSEDED BY THE LATEST VERSION ON FILE WITH AMERICAN TOWER.

REV.	DESCRIPTION	BY	DATE
0	FIRST ISSUE	CWB	04/01/19

ATC SITE NUMBER:
 302473

ATC SITE NAME:
 E H F R - PRESTIGE PARK
 CONNECTICUT

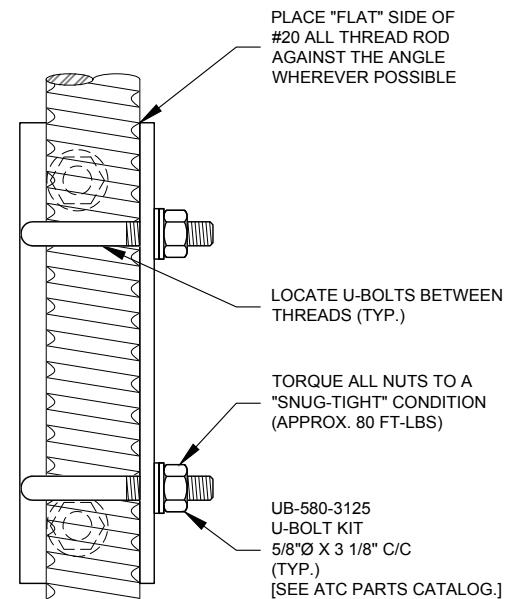
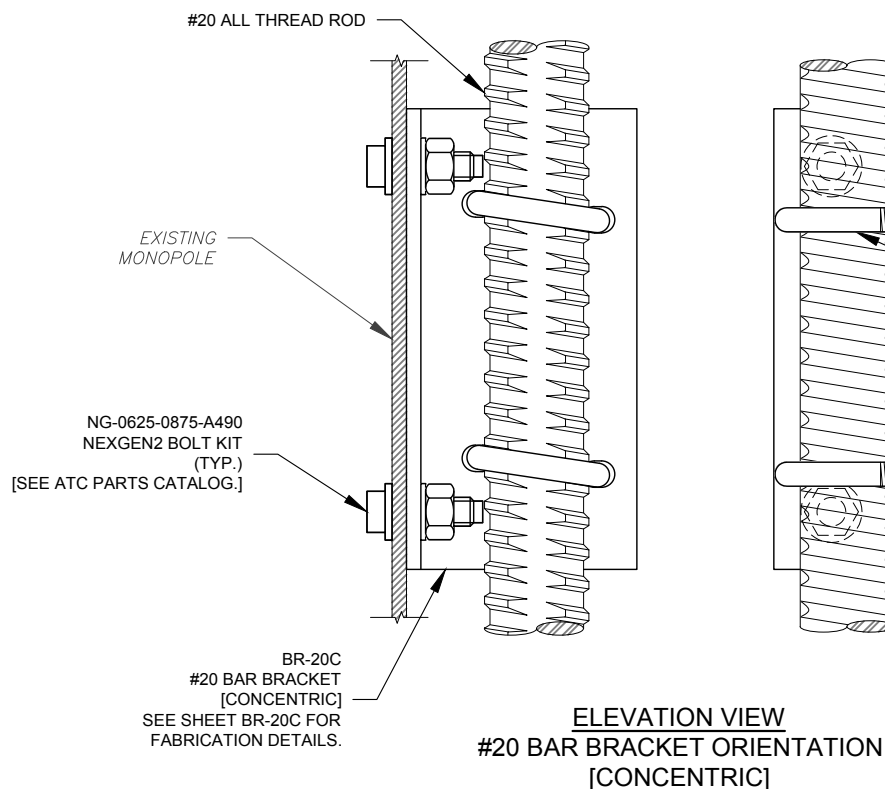
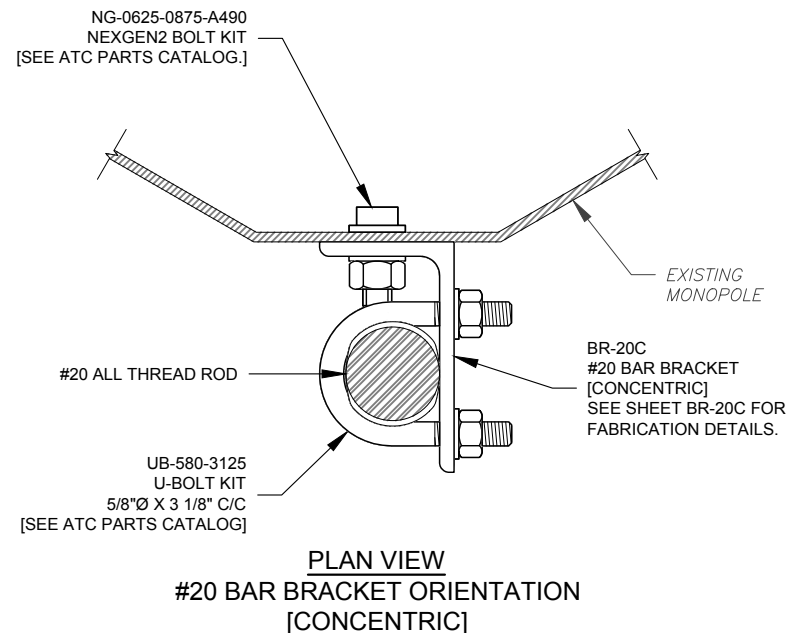
SITE ADDRESS:
 310 PRESTIGE PARK RD.
 EAST HARTFORD, CT 06108

DRAWN BY:	CWB
APPROVED BY:	CDW/KCI
DATE DRAWN:	04/01/19
ATC JOB NO:	OAA745293_C6_06

REINFORCEMENT
 INSTALLATION DETAILS

SHEET NUMBER:	REVISION:
A-3	0

**Passing MI Report
Tuesday, March 24, 2020
Hannah Childers, CWI**



**GC As-Builts
Structural Components
Ryan Hubert
3.23.2020**

THESE DRAWINGS AND/OR THE ACCOMPANYING SPECIFICATION AS INSTRUMENTS OF SERVICE ARE THE EXCLUSIVE PROPERTY OF AMERICAN TOWER. THEIR USE AND PUBLICATION SHALL BE RESTRICTED TO THE ORIGINAL SITE FOR WHICH THEY ARE PREPARED. ANY USE OR DISCLOSURE OTHER THAN THAT WHICH RELATES TO AMERICAN TOWER OR THE SPECIFIED CARRIER IS STRICTLY PROHIBITED. TITLE TO THESE DOCUMENTS SHALL REMAIN THE PROPERTY OF AMERICAN TOWER WHETHER OR NOT THE PROJECT IS EXECUTED. NEITHER THE ARCHITECT NOR THE ENGINEER WILL BE PROVIDING ON-SITE CONSTRUCTION REVIEW OF THIS PROJECT. CONTRACTOR(S) MUST VERIFY ALL DIMENSIONS AND ADVISE AMERICAN TOWER OF ANY DISCREPANCIES. ANY PRIOR ISSUANCE OF THIS DRAWING IS SUPERSEDED BY THE LATEST VERSION ON FILE WITH AMERICAN TOWER.

REV.	DESCRIPTION	BY	DATE
0	FIRST ISSUE	CWB	04/01/19

ATC SITE NUMBER:
302473

ATC SITE NAME:
E H F R - PRESTIGE PARK

CONNECTICUT

SITE ADDRESS:
310 PRESTIGE PARK RD.
EAST HARTFORD, CT 06108

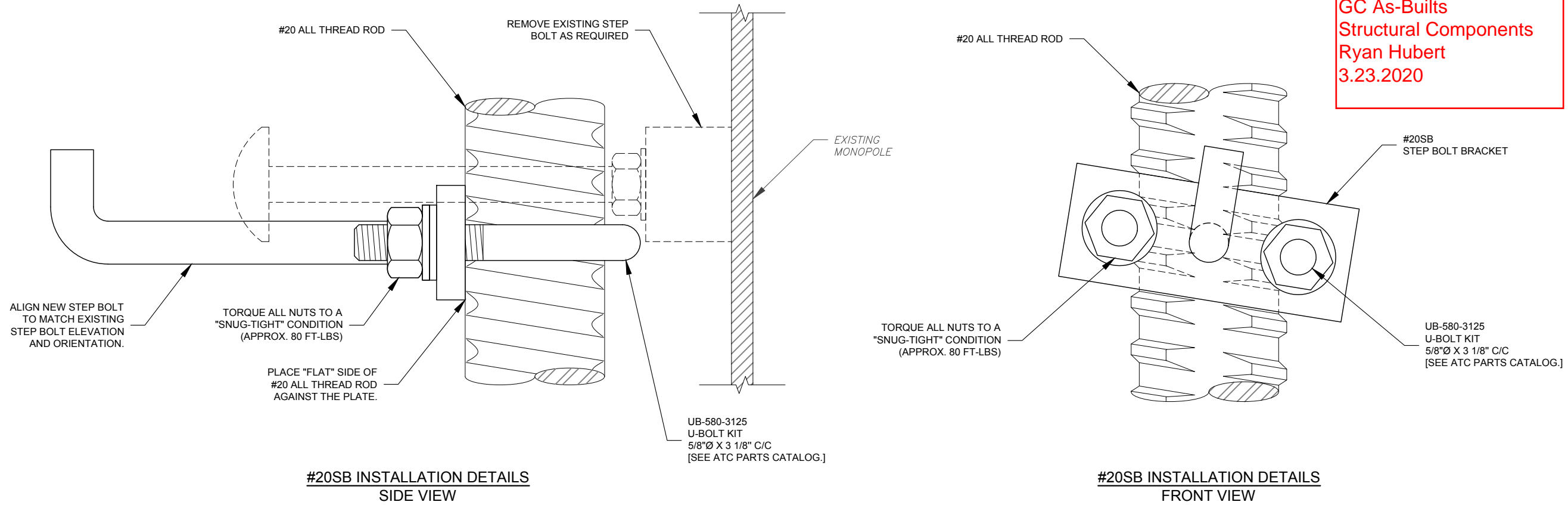
DRAWN BY:	CWB
APPROVED BY:	CDW/KCI
DATE DRAWN:	04/01/19
ATC JOB NO:	OAA745293_C6_06

**REINFORCEMENT
INSTALLATION DETAILS
(CONT'D)**

SHEET NUMBER:	REVISION:
A-3A	0

**Passing MI Report
Tuesday, March 24, 2020
Hannah Childers, CWI**

**GC As-Builts
Structural Components
Ryan Hubert
3.23.2020**



NOTE:
STEP PEG SPACING IS NOT TO EXCEED 15" MAX. STAGGERED OR 30" MAX.
ON ANY SINGLE SIDE OF THE DYWIDAG BAR.

THESE DRAWINGS AND/OR THE ACCOMPANYING SPECIFICATION AS INSTRUMENTS OR SERVICE ARE THE EXCLUSIVE PROPERTY OF AMERICAN TOWER. THEIR USE AND PUBLICATION SHALL BE RESTRICTED TO THE ORIGINAL SITE FOR WHICH THEY ARE PREPARED. ANY USE OR DISCLOSURE OTHER THAN THAT WHICH RELATES TO AMERICAN TOWER OR THE SPECIFIED CARRIER IS STRICTLY PROHIBITED. TITLE TO THESE DOCUMENTS SHALL REMAIN THE PROPERTY OF AMERICAN TOWER WHETHER OR NOT THE PROJECT IS EXECUTED. NEITHER THE ARCHITECT NOR THE ENGINEER WILL BE PROVIDING ON-SITE CONSTRUCTION REVIEW OF THIS PROJECT. CONTRACTOR(S) MUST VERIFY ALL DIMENSIONS AND ADVISE AMERICAN TOWER OF ANY DISCREPANCIES. ANY PRIOR ISSUANCE OF THIS DRAWING IS SUPERSEDED BY THE LATEST VERSION ON FILE WITH AMERICAN TOWER.

REV.	DESCRIPTION	BY	DATE
0	FIRST ISSUE	CWB	04/01/19

ATC SITE NUMBER:
302473

ATC SITE NAME:
**E H F R - PRESTIGE PARK
CONNECTICUT**

SITE ADDRESS:
310 PRESTIGE PARK RD.
EAST HARTFORD, CT 06108

DRAWN BY:	CWB
APPROVED BY:	CDW/KCI
DATE DRAWN:	04/01/19
ATC JOB NO:	OAA745293_C6_06

**#20 STEP BOLT BRACKET
INSTALLATION DETAILS**

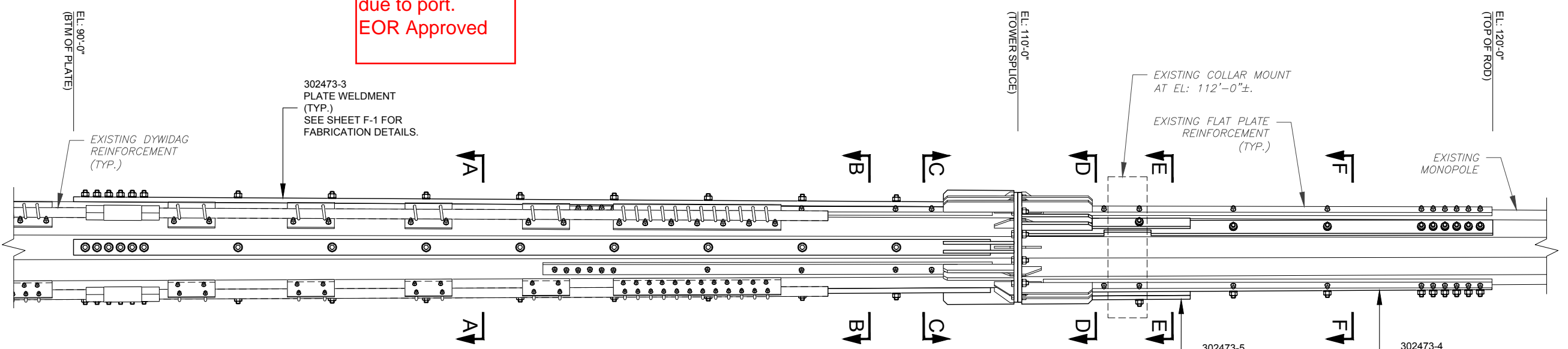
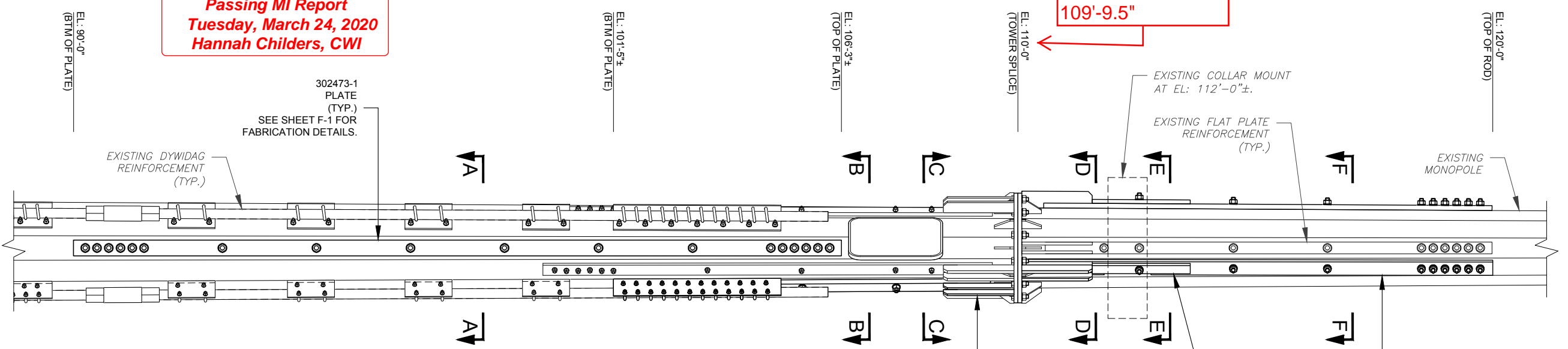
SHEET NUMBER:	REVISION:
#20SB	0

Copyright © 2019 ATC IP LLC. All Rights Reserved.

Passing MI Report
 Tuesday, March 24, 2020
 Hannah Childers, CWI

Tower splice is at
 109'-9.5"

Plates on face
 1,7,10 were
 installed from
 89'-8.5" to
 109'-2.5".
 Plate on face 4
 was installed from
 90'-1" to 106'-6"
 due to port.
 EOR Approved



- NOTES:
- SEE SHEET A-4A FOR SECTIONS "A-A" THRU "G-G" AND TYPICAL WELD DETAILS.
 - REPLACE ANY EXISTING STEP BOLTS THAT INTERFERE WITH THE NEW PLATE WELDMENT INSTALLATIONS. THE NEW STEP BOLTS SHALL BE ATTACHED TO THE PLATE WELDMENTS IN THE SAME APPROXIMATE LOCATION. SEE SHEET FBSB FOR INSTALLATION DETAILS.
 - NG-2250-2688-A490 NEXGEN2 BOLT KITS ARE SUPPLIED AS REQUIRED FOR BAR BRACKET CONNECTIONS THAT FALL WITHIN MOUNT BYPASS PLATE [302473-5] LOCATIONS.

GC As-Built
 Structural Components
 Ryan Hubert
 3.23.2020

AMERICAN TOWER®
 A.T. ENGINEERING SERVICE, PLLC
 3500 REGENCY PARKWAY
 SUITE 100
 CARY, NC 27518
 PHONE: (919) 468-0112
 COA: PEC.0001553

THESE DRAWINGS AND/OR THE ACCOMPANYING SPECIFICATION AS INSTRUMENTS OR SERVICE ARE THE EXCLUSIVE PROPERTY OF AMERICAN TOWER. THEIR USE AND PUBLICATION SHALL BE RESTRICTED TO THE ORIGINAL SITE FOR WHICH THEY ARE PREPARED. ANY USE OR DISCLOSURE OTHER THAN THAT WHICH RELATES TO AMERICAN TOWER OR THE SPECIFIED CARRIER IS STRICTLY PROHIBITED. TITLE TO THESE DOCUMENTS SHALL REMAIN THE PROPERTY OF AMERICAN TOWER WHETHER OR NOT THE PROJECT IS EXECUTED. NEITHER THE ARCHITECT NOR THE ENGINEER WILL BE PROVIDING ON-SITE CONSTRUCTION REVIEW OF THIS PROJECT. CONTRACTOR(S) MUST VERIFY ALL DIMENSIONS AND ADVISE AMERICAN TOWER OF ANY DISCREPANCIES. ANY PRIOR ISSUANCE OF THIS DRAWING IS SUPERSEDED BY THE LATEST VERSION ON FILE WITH AMERICAN TOWER.

REV.	DESCRIPTION	BY	DATE
0	FIRST ISSUE	CWB	04/01/19

ATC SITE NUMBER:
 302473

ATC SITE NAME:
 E H F R - PRESTIGE PARK
 CONNECTICUT

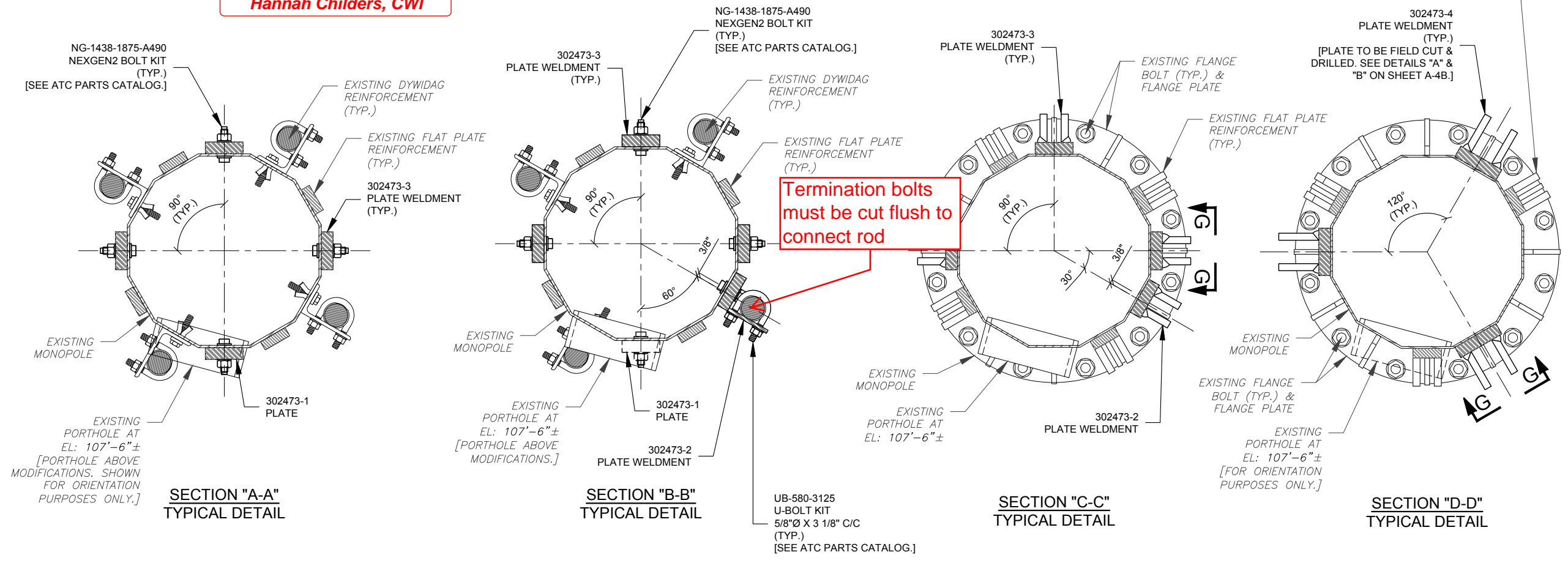
SITE ADDRESS:
 310 PRESTIGE PARK RD.
 EAST HARTFORD, CT 06108

DRAWN BY:	CWB
APPROVED BY:	CDW/KCI
DATE DRAWN:	04/01/19
ATC JOB NO:	OAA745293_C6_06

PLATE WELDMENT INSTALLATION DETAILS	
SHEET NUMBER: A-4	REVISION: 0

Copyright © 2019 ATC IP, LLC. All Rights Reserved.

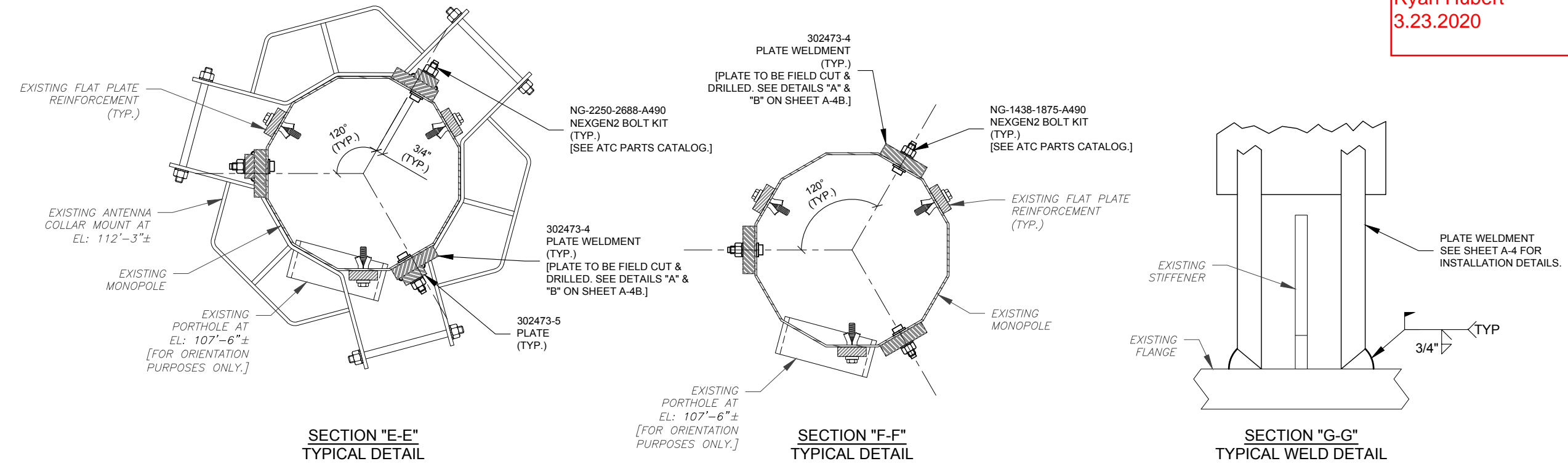
Passing MI Report
Tuesday, March 24, 2020
Hannah Childers, CWI



Termination bolts must be cut flush to connect rod

SEE SHEET A-4 FOR ADDITIONAL INSTALLATION DETAILS.

GC As-Builts
Structural Components
Ryan Hubert
3.23.2020



AMERICAN TOWER®
A.T. ENGINEERING SERVICE, PLLC
3500 REGENCY PARKWAY
SUITE 100
CARY, NC 27518
PHONE: (919) 468-0112
COA: PEC.0001553

THESE DRAWINGS AND/OR THE ACCOMPANYING SPECIFICATION AS INSTRUMENTS OR SERVICE ARE THE EXCLUSIVE PROPERTY OF AMERICAN TOWER. THEIR USE AND PUBLICATION SHALL BE RESTRICTED TO THE ORIGINAL SITE FOR WHICH THEY ARE PREPARED. ANY USE OR DISCLOSURE OTHER THAN THAT WHICH RELATES TO AMERICAN TOWER OR THE SPECIFIED CARRIER IS STRICTLY PROHIBITED. TITLE TO THESE DOCUMENTS SHALL REMAIN THE PROPERTY OF AMERICAN TOWER WHETHER OR NOT THE PROJECT IS EXECUTED. NEITHER THE ARCHITECT NOR THE ENGINEER WILL BE PROVIDING ON-SITE CONSTRUCTION REVIEW OF THIS PROJECT. CONTRACTOR(S) MUST VERIFY ALL DIMENSIONS AND ADVISE AMERICAN TOWER OF ANY DISCREPANCIES. ANY PRIOR ISSUANCE OF THIS DRAWING IS SUPERSEDED BY THE LATEST VERSION ON FILE WITH AMERICAN TOWER.

REV.	DESCRIPTION	BY	DATE
0	FIRST ISSUE	CWB	04/01/19

ATC SITE NUMBER:
302473

ATC SITE NAME:
E H F R - PRESTIGE PARK

CONNECTICUT

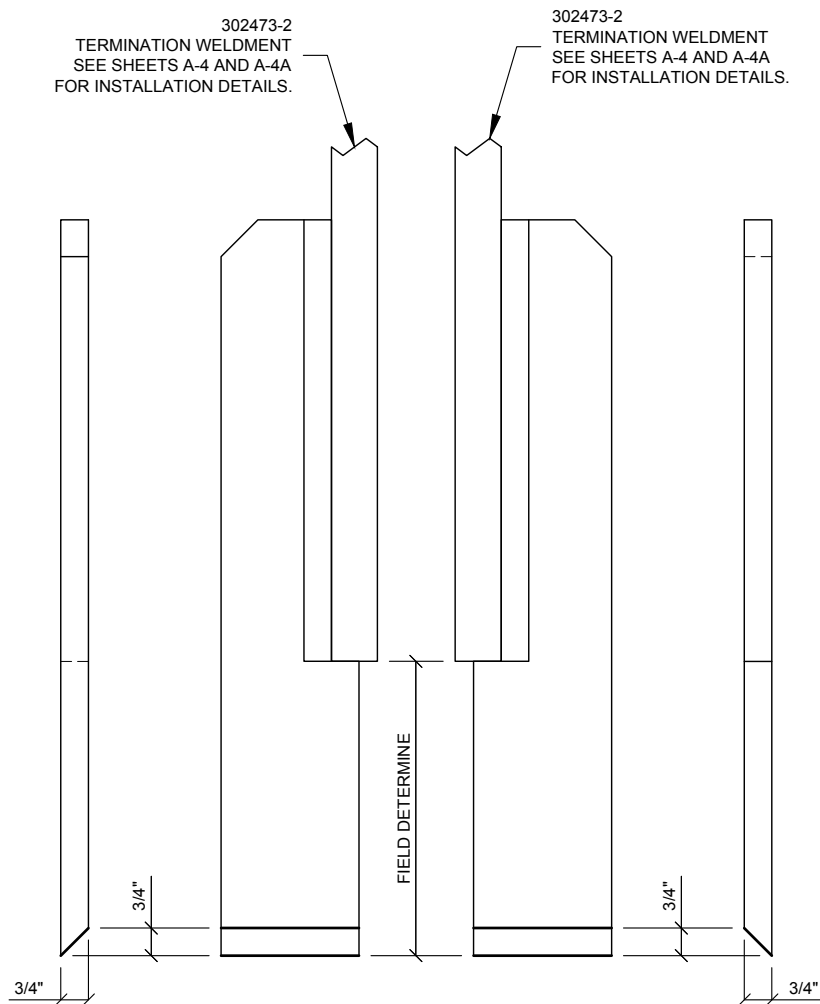
SITE ADDRESS:
310 PRESTIGE PARK RD.
EAST HARTFORD, CT 06108

DRAWN BY:	CWB
APPROVED BY:	CDW/KCI
DATE DRAWN:	04/01/19
ATC JOB NO:	OAA745293_C6_06

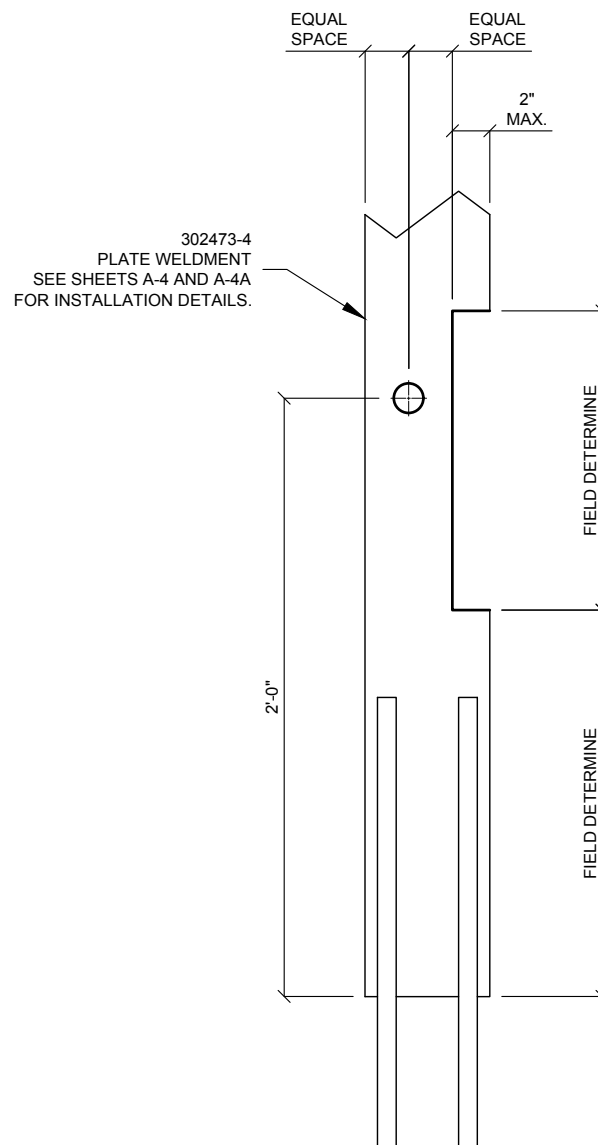
PLATE WELDMENT INSTALLATION DETAILS (CONT'D)	
SHEET NUMBER: A-4A	REVISION: 0

Copyright © 2019 ATC IP, LLC. All Rights Reserved.

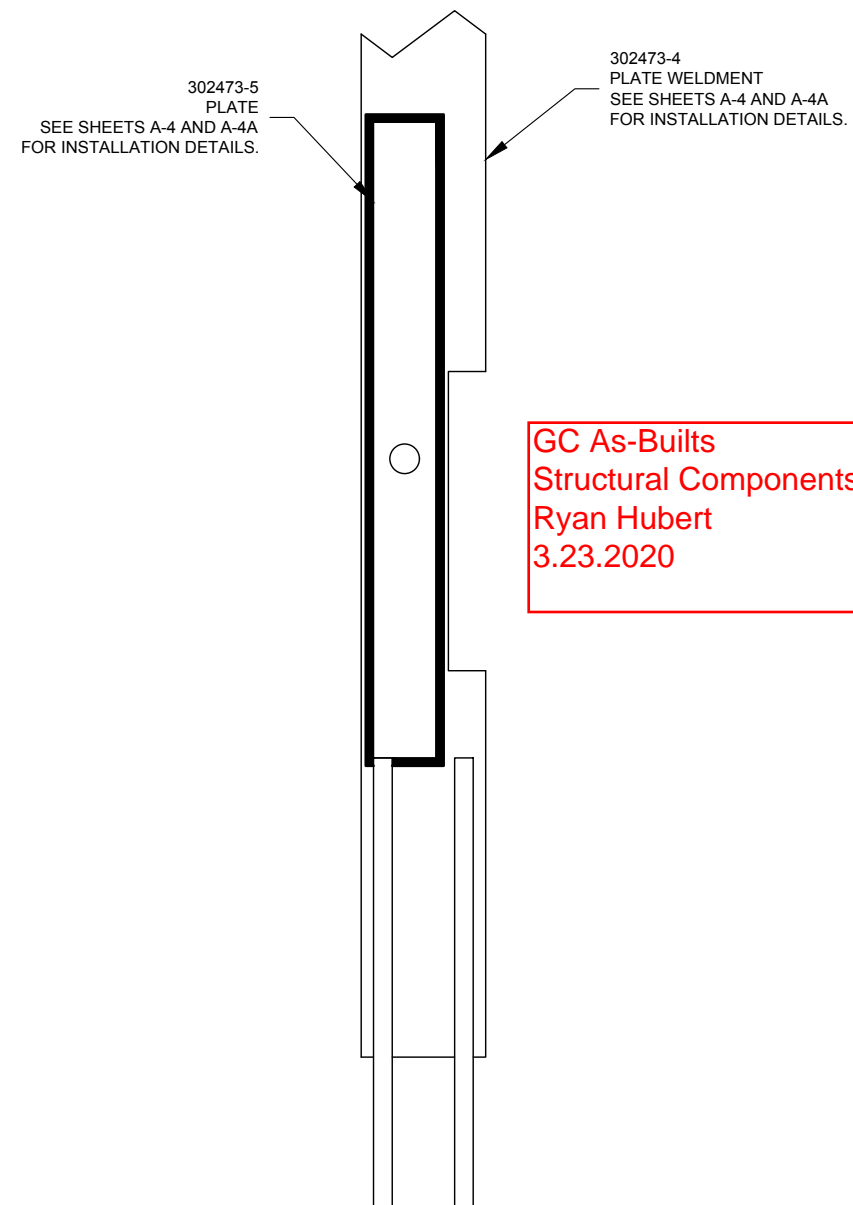
**Passing MI Report
Tuesday, March 24, 2020
Hannah Childers, CWI**



**DETAIL "A"
FIELD CUT**



**DETAIL "B"
TYPICAL FIELD CUT & DRILL DETAIL
STEP 1**



**DETAIL "B"
TYPICAL FIELD WELD DETAIL
STEP 2**

THESE DRAWINGS AND/OR THE ACCOMPANYING SPECIFICATION AS INSTRUMENTS OR SERVICE ARE THE EXCLUSIVE PROPERTY OF AMERICAN TOWER. THEIR USE AND PUBLICATION SHALL BE RESTRICTED TO THE ORIGINAL SITE FOR WHICH THEY ARE PREPARED. ANY USE OR DISCLOSURE OTHER THAN THAT WHICH RELATES TO AMERICAN TOWER OR THE SPECIFIED CARRIER IS STRICTLY PROHIBITED. TITLE TO THESE DOCUMENTS SHALL REMAIN THE PROPERTY OF AMERICAN TOWER WHETHER OR NOT THE PROJECT IS EXECUTED. NEITHER THE ARCHITECT NOR THE ENGINEER WILL BE PROVIDING ON-SITE CONSTRUCTION REVIEW OF THIS PROJECT. CONTRACTOR(S) MUST VERIFY ALL DIMENSIONS AND ADVISE AMERICAN TOWER OF ANY DISCREPANCIES. ANY PRIOR ISSUANCE OF THIS DRAWING IS SUPERSEDED BY THE LATEST VERSION ON FILE WITH AMERICAN TOWER.

REV.	DESCRIPTION	BY	DATE
0	FIRST ISSUE	CWB	04/01/19

ATC SITE NUMBER:
302473

ATC SITE NAME:
**E H F R - PRESTIGE PARK
CONNECTICUT**

SITE ADDRESS:
310 PRESTIGE PARK RD.
EAST HARTFORD, CT 06108

DRAWN BY:	CWB
APPROVED BY:	CDW/KCI
DATE DRAWN:	04/01/19
ATC JOB NO:	OAA745293_C6_06

**PLATE WELDMENT
INSTALLATION DETAILS
(CONT'D)**

SHEET NUMBER:	REVISION:
A-4B	0



AMERICAN TOWER®
A.T. ENGINEERING SERVICE, PLLC
 3500 REGENCY PARKWAY
 SUITE 100
 CARY, NC 27518
 PHONE: (919) 468-0112
 COA: PEC.0001553

THESE DRAWINGS AND/OR THE ACCOMPANYING SPECIFICATION AS INSTRUMENTS OR SERVICE ARE THE EXCLUSIVE PROPERTY OF AMERICAN TOWER. THEIR USE AND PUBLICATION SHALL BE RESTRICTED TO THE ORIGINAL SITE FOR WHICH THEY ARE PREPARED. ANY USE OR DISCLOSURE OTHER THAN THAT WHICH RELATES TO AMERICAN TOWER OR THE SPECIFIED CARRIER IS STRICTLY PROHIBITED. TITLE TO THESE DOCUMENTS SHALL REMAIN THE PROPERTY OF AMERICAN TOWER WHETHER OR NOT THE PROJECT IS EXECUTED. NEITHER THE ARCHITECT NOR THE ENGINEER WILL BE PROVIDING ON-SITE CONSTRUCTION REVIEW OF THIS PROJECT. CONTRACTOR(S) MUST VERIFY ALL DIMENSIONS AND ADVISE AMERICAN TOWER OF ANY DISCREPANCIES. ANY PRIOR ISSUANCE OF THIS DRAWING IS SUPERSEDED BY THE LATEST VERSION ON FILE WITH AMERICAN TOWER.

REV.	DESCRIPTION	BY	DATE
0	FIRST ISSUE	CWB	04/01/19

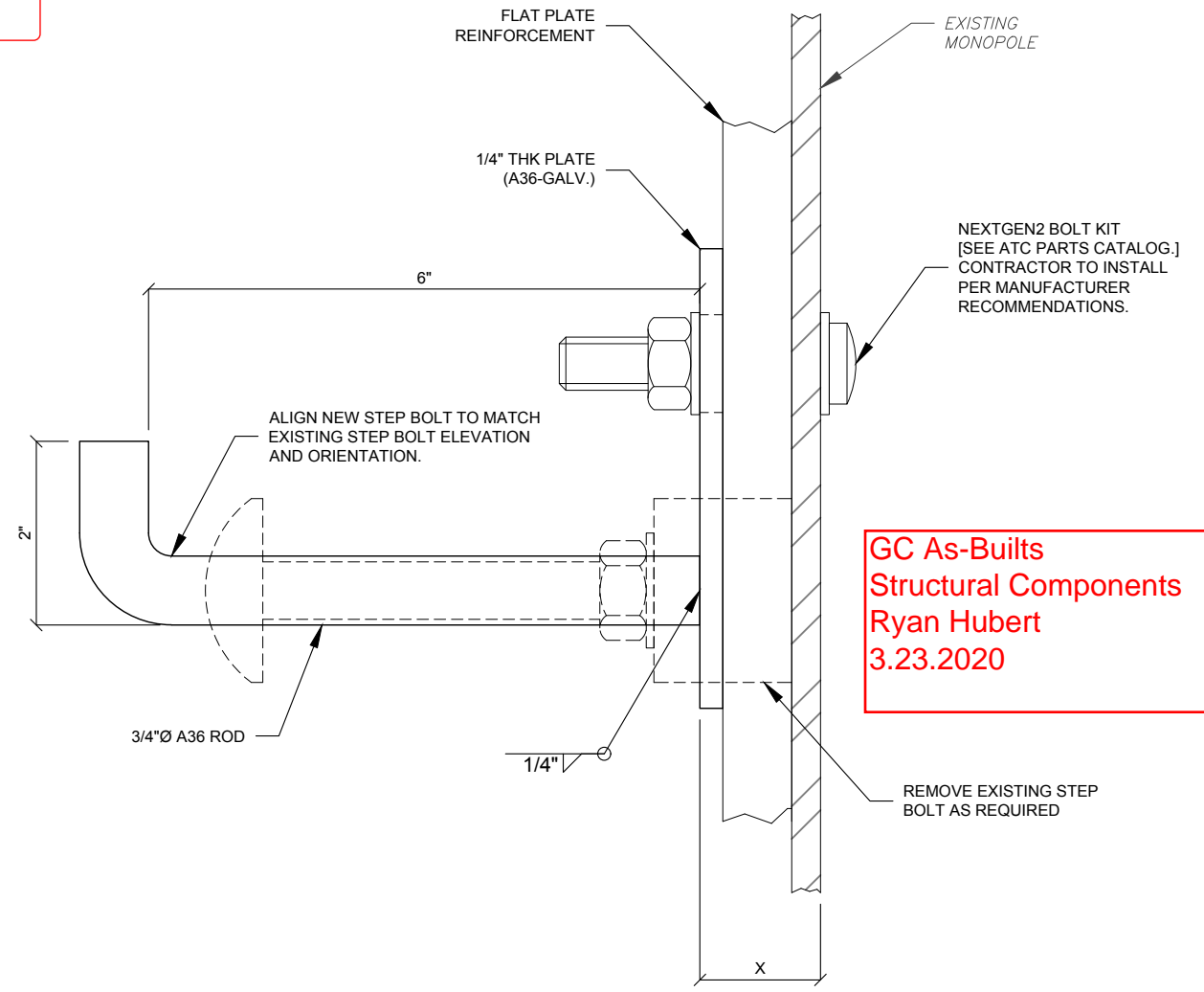
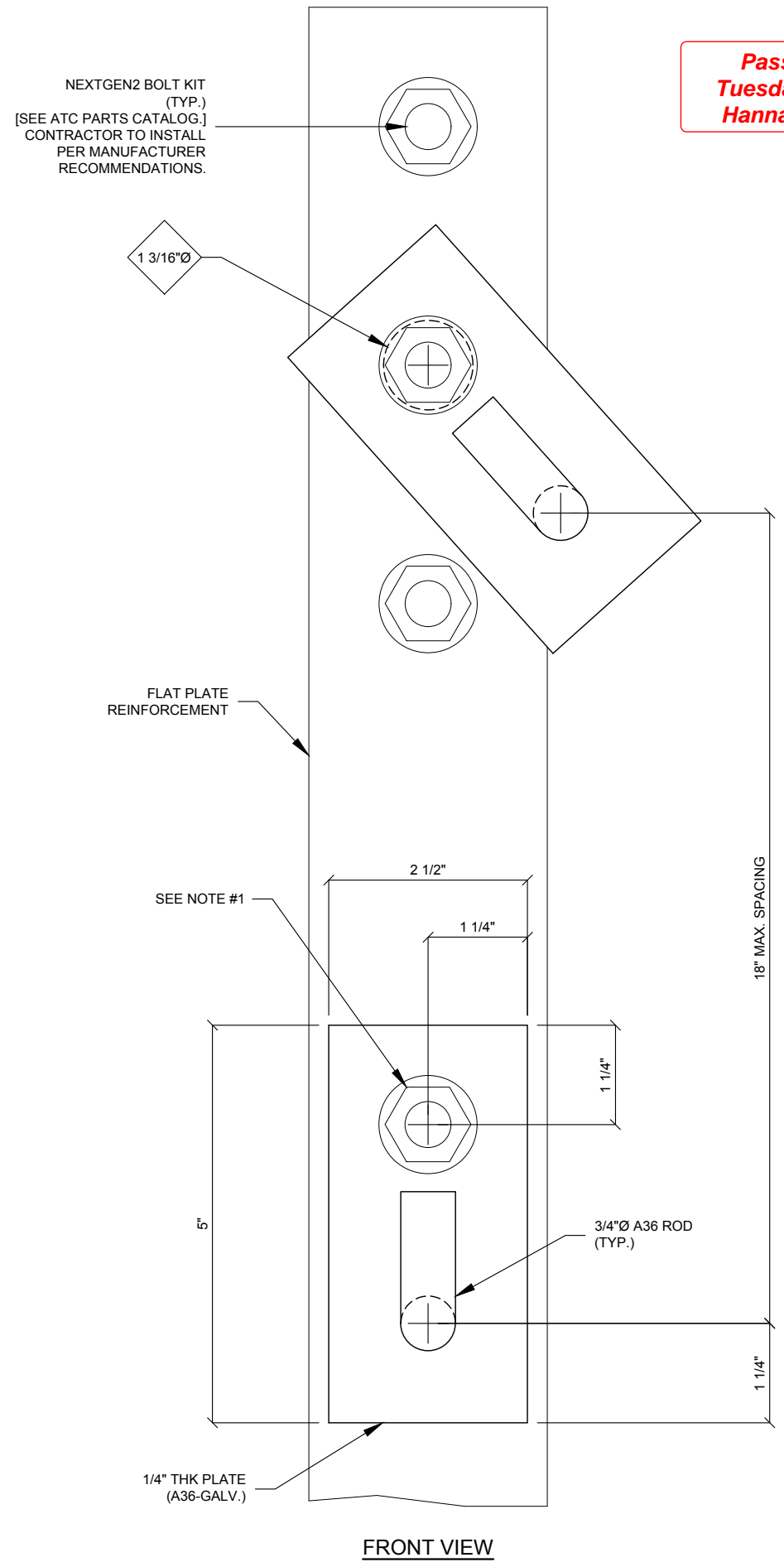
ATC SITE NUMBER:
302473
 ATC SITE NAME:
E H F R - PRESTIGE PARK
CONNECTICUT
 SITE ADDRESS:
 310 PRESTIGE PARK RD.
 EAST HARTFORD, CT 06108

DRAWN BY:	CWB
APPROVED BY:	CDW/KCI
DATE DRAWN:	04/01/19
ATC JOB NO:	OAA745293_C6_06

FLAT PLATE STEP BOLT BRACKET FABRICATION & INSTALLATION DETAILS

SHEET NUMBER:
FPSB
 REVISION:
0

Passing MI Report
Tuesday, March 24, 2020
Hannah Childers, CWI



GC As-Builts
Structural Components
Ryan Hubert
3.23.2020

NEXGEN2 BLIND BOLTS (A490)		
ATC KIT NUMBER	ALLFASTENER	RANGE (IN)
NG-0625-0875-A490	2NG2060	0.625-0.875
NG-0938-1438-A490	2NG2036	0.9375-1.4375
NG-1438-1875-A490	2NG2048	1.4375-1.875
NG-1875-2250-A490	2NG2057	1.875-2.25
NG-2250-2688-A490	2NG2068	2.25-2.6875
NG-2688-3750-A490	2NG2096	2.6875-3.75
NG-3750-5000-A490	2NG2127	3.75-5
NG-5000-8313-A490	2NG2212	5-8.3125

- NOTES:**
- BLIND BOLT LENGTHS TO BE VERIFIED PRIOR TO FLAT PLATE AND STEP BOLT INSTALLATION. USE NEXGEN2 BLIND BOLT CHART.
 - STEP PEG SPACING IS NOT TO EXCEED 15" MAX. STAGGERED OR 30" MAX. ON ANY SINGLE SIDE OF THE FLAT PLATE.

Copyright © 2019 ATC IP, LLC. All Rights Reserved.

Passing MI Report
 Tuesday, March 24, 2020
 Hannah Childers, CWI



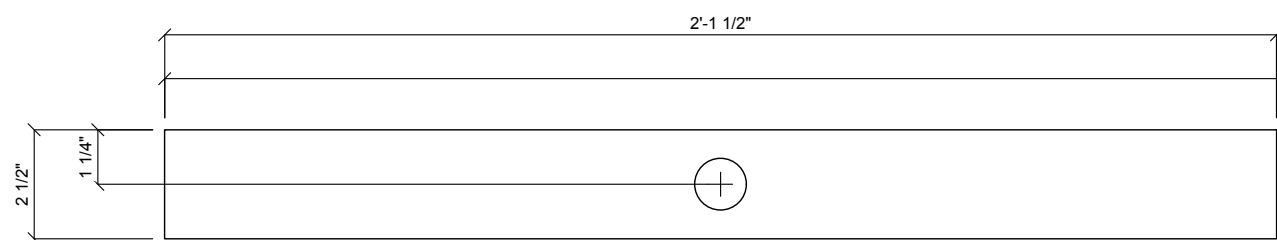
AMERICAN TOWER®
 A.T. ENGINEERING SERVICE, PLLC
 3500 REGENCY PARKWAY
 SUITE 100
 CARY, NC 27518
 PHONE: (919) 468-0112
 COA: PEC.0001553

THESE DRAWINGS AND/OR THE ACCOMPANYING SPECIFICATION AS INSTRUMENTS OR SERVICE ARE THE EXCLUSIVE PROPERTY OF AMERICAN TOWER. THEIR USE AND PUBLICATION SHALL BE RESTRICTED TO THE ORIGINAL SITE FOR WHICH THEY ARE PREPARED. ANY USE OR DISCLOSURE OTHER THAN THAT WHICH RELATES TO AMERICAN TOWER OR THE SPECIFIED CARRIER IS STRICTLY PROHIBITED. TITLE TO THESE DOCUMENTS SHALL REMAIN THE PROPERTY OF AMERICAN TOWER WHETHER OR NOT THE PROJECT IS EXECUTED. NEITHER THE ARCHITECT NOR THE ENGINEER WILL BE PROVIDING ON-SITE CONSTRUCTION REVIEW OF THIS PROJECT. CONTRACTOR(S) MUST VERIFY ALL DIMENSIONS AND ADVISE AMERICAN TOWER OF ANY DISCREPANCIES. ANY PRIOR ISSUANCE OF THIS DRAWING IS SUPERSEDED BY THE LATEST VERSION ON FILE WITH AMERICAN TOWER.

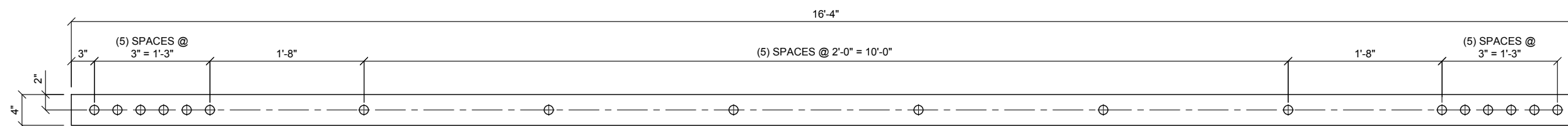
REV.	DESCRIPTION	BY	DATE
0	FIRST ISSUE	CWB	04/01/19

ATC SITE NUMBER:
 302473
 ATC SITE NAME:
 E H F R - PRESTIGE PARK
 CONNECTICUT
 SITE ADDRESS:
 310 PRESTIGE PARK RD.
 EAST HARTFORD, CT 06108

GC As-Builts
 Structural Components
 Ryan Hubert
 3.23.2020



302473-5
 PLATE



302473-1
 PLATE

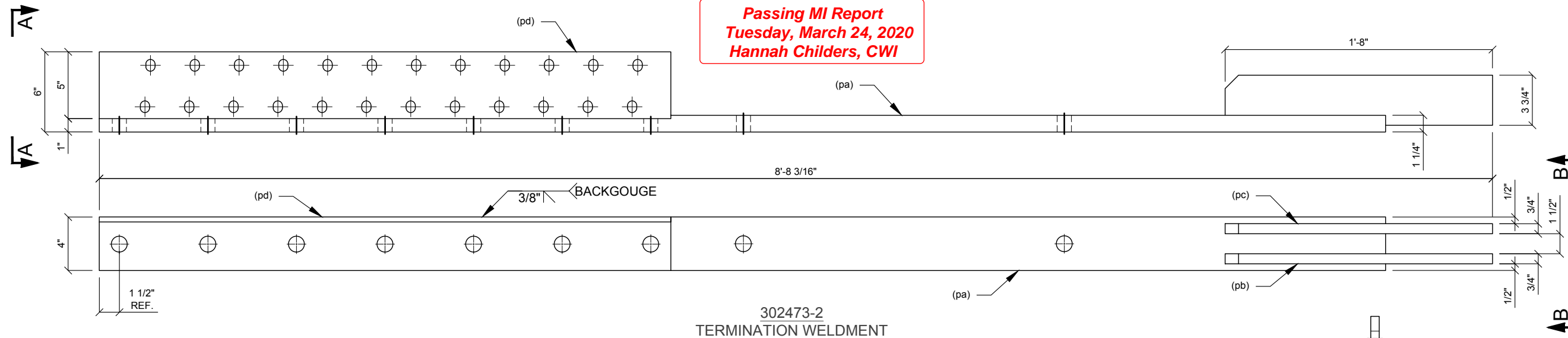
PART NO.	DESCRIPTION	LENGTH	NOTES	BLK WT	GALV WT
302473-5	PL 1" X 2 1/2"	2'-1 1/2"		18.1#	19.0#
302473-1	PL 1 1/4" X 4"	16'-4"		277.9#	291.8#
MATERIAL: A572 GR. 65		FINISH: GALVANIZED		HOLES: 1 3/16"Ø	

DRAWN BY:	CWB
APPROVED BY:	CDW/KCI
DATE DRAWN:	04/01/19
ATC JOB NO:	OAA745293_C6_06

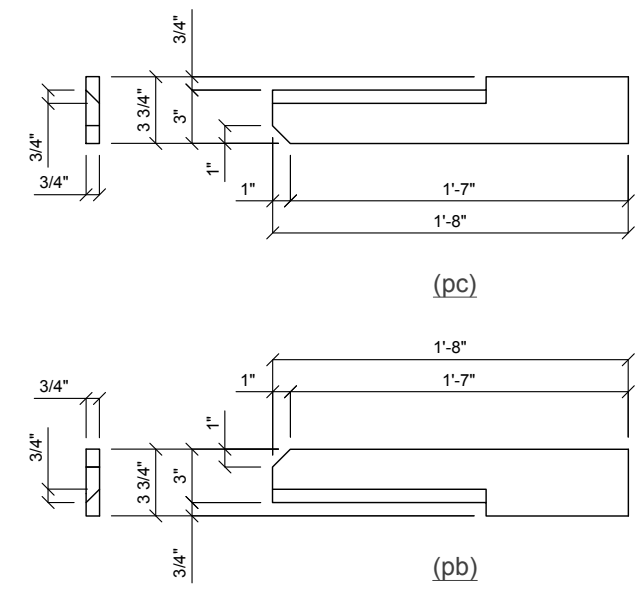
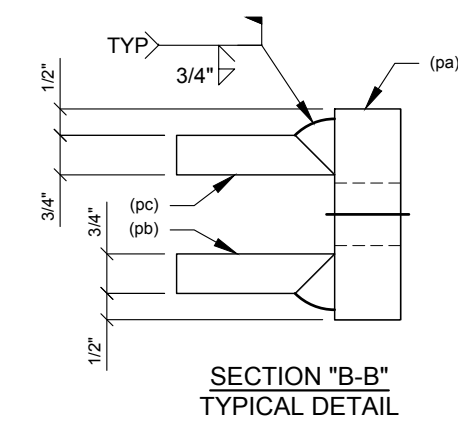
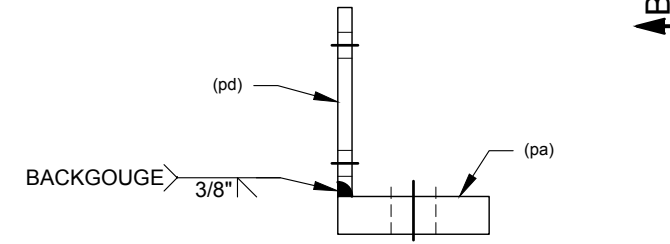
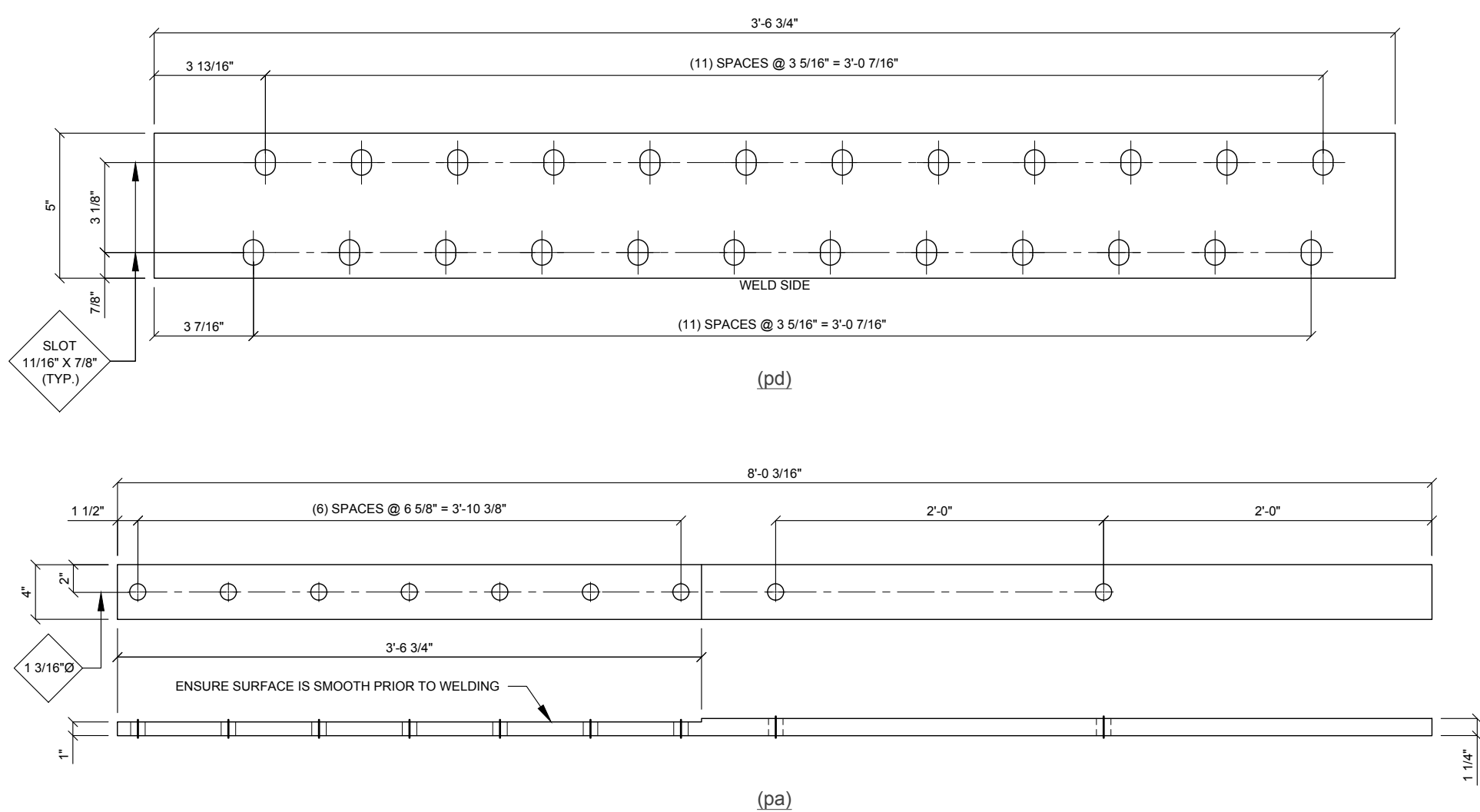
PLATE
 FABRICATION DETAILS

SHEET NUMBER:	REVISION:
F-1	0

Copyright © 2019 ATC IP LLC. All Rights Reserved.



Passing MI Report
Tuesday, March 24, 2020
Hannah Childers, CWI



PART NO.	QTY	DESCRIPTION	LENGTH	NOTES	BLK WT
(pd)	1	PL 3/8" X 5"	3'-6 3/4"		22.7#
(pc)	1	PL 3/4" X 3 3/4"	1'-8"	SHAPE	13.9#
(pb)	1	PL 3/4" X 3 3/4"	1'-8"	SHAPE	13.9#
(pa)	1	PL 1 1/4" X 4"	8'-0 3/16"	SHAPE	124.3#
302473-2	1	TERMINATION WELDMENT	8'-8 3/16"		174.9#
MATERIAL: A572 GR. 65		FINISH: GALVANIZED		HOLES: AS NOTED	GALV WT: 183.6#

GC As-Builts
Structural Components
Ryan Hubert
3.23.2020

AMERICAN TOWER®
A.T. ENGINEERING SERVICE, PLLC
3500 REGENCY PARKWAY
SUITE 100
CARY, NC 27518
PHONE: (919) 468-0112
COA: PEC.0001553

THESE DRAWINGS AND/OR THE ACCOMPANYING SPECIFICATION AS INSTRUMENTS OF SERVICE ARE THE EXCLUSIVE PROPERTY OF AMERICAN TOWER. THEIR USE AND PUBLICATION SHALL BE RESTRICTED TO THE ORIGINAL SITE FOR WHICH THEY ARE PREPARED. ANY USE OR DISCLOSURE OTHER THAN THAT WHICH RELATES TO AMERICAN TOWER OR THE SPECIFIED CARRIER IS STRICTLY PROHIBITED. TITLE TO THESE DOCUMENTS SHALL REMAIN THE PROPERTY OF AMERICAN TOWER WHETHER OR NOT THE PROJECT IS EXECUTED. NEITHER THE ARCHITECT NOR THE ENGINEER WILL BE PROVIDING ON-SITE CONSTRUCTION REVIEW OF THIS PROJECT. CONTRACTOR(S) MUST VERIFY ALL DIMENSIONS AND ADVISE AMERICAN TOWER OF ANY DISCREPANCIES. ANY PRIOR ISSUANCE OF THIS DRAWING IS SUPERSEDED BY THE LATEST VERSION ON FILE WITH AMERICAN TOWER.

REV.	DESCRIPTION	BY	DATE
0	FIRST ISSUE	CWB	04/01/19

ATC SITE NUMBER:
302473

ATC SITE NAME:
**E H F R - PRESTIGE PARK
CONNECTICUT**

SITE ADDRESS:
310 PRESTIGE PARK RD.
EAST HARTFORD, CT 06108

DRAWN BY:	CWB
APPROVED BY:	CDW/KCI
DATE DRAWN:	04/01/19
ATC JOB NO:	OAA745293_C6_06

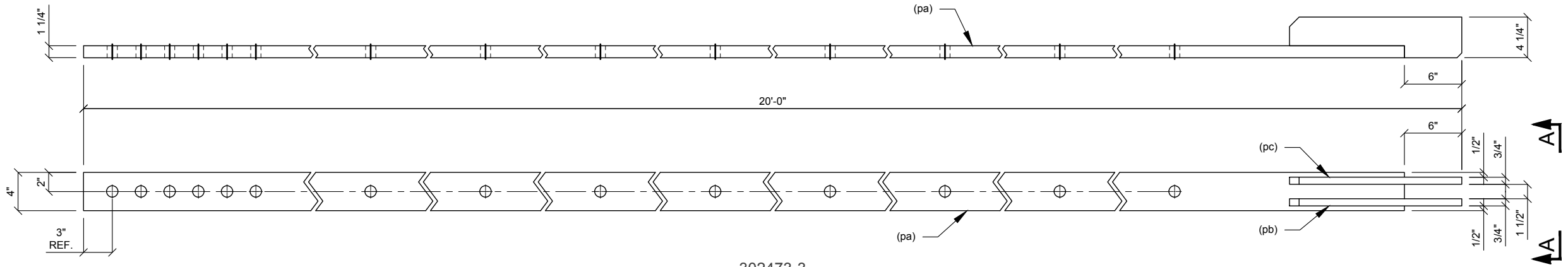
TERMINATION WELDMENT
FABRICATION DETAILS

SHEET NUMBER:
F-2

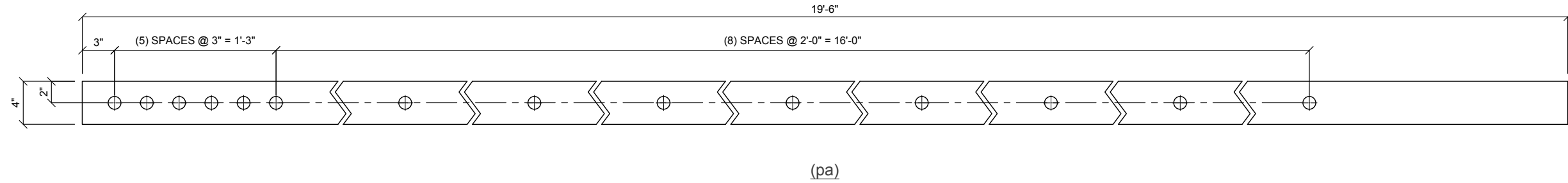
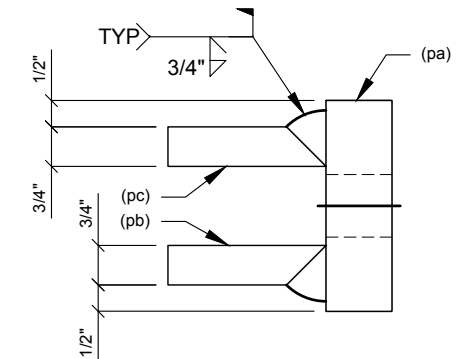
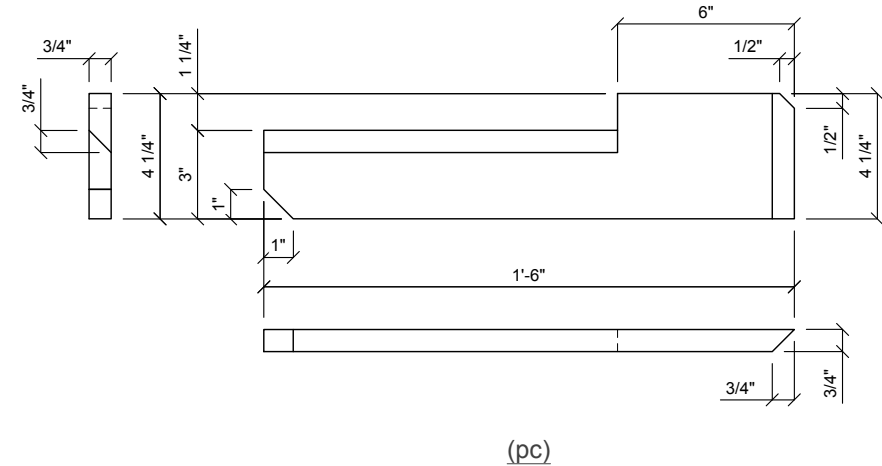
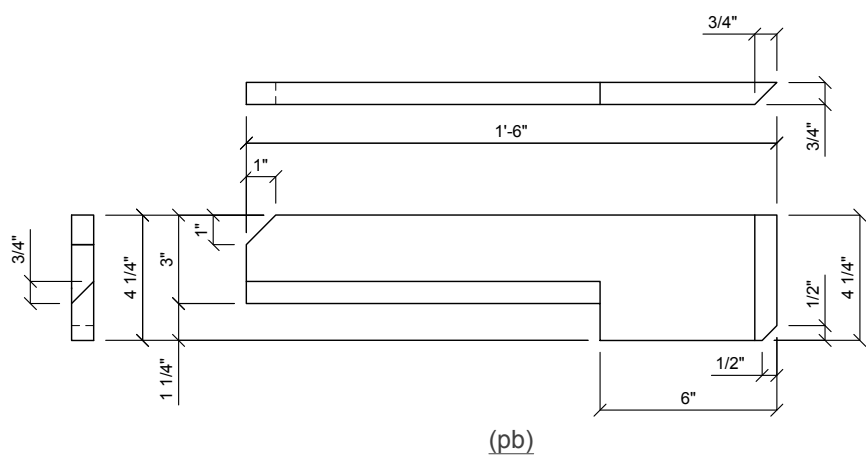
REVISION:
0

Copyright © 2019 ATC IP, LLC. All Rights Reserved.

Passing MI Report
 Tuesday, March 24, 2020
 Hannah Childers, CWI



302473-3
 PLATE WELDMENT



PART NO.	QTY	DESCRIPTION	LENGTH	NOTES	BLK WT
(pc)	1	PL 3/4" X 4 1/4"	1'-6"	SHAPE	12.9#
(pb)	1	PL 3/4" X 4 1/4"	1'-6"	SHAPE	12.9#
(pa)	1	PL 1 1/4" X 4"	19'-6"		331.8#
302473-3	1	PLATE WELDMENT	20'-0"		357.7#
MATERIAL: A572 GR. 65		FINISH: GALVANIZED		HOLES: 1 3/16"Ø	GALV WT: 375.5#

GC As-Built
 Structural Components
 Ryan Hubert
 3.23.2020

AMERICAN TOWER®
 A.T. ENGINEERING SERVICE, PLLC
 3500 REGENCY PARKWAY
 SUITE 100
 CARY, NC 27518
 PHONE: (919) 468-0112
 COA: PEC.0001553

THESE DRAWINGS AND/OR THE ACCOMPANYING SPECIFICATION AS INSTRUMENTS OR SERVICE ARE THE EXCLUSIVE PROPERTY OF AMERICAN TOWER. THEIR USE AND PUBLICATION SHALL BE RESTRICTED TO THE ORIGINAL SITE FOR WHICH THEY ARE PREPARED. ANY USE OR DISCLOSURE OTHER THAN THAT WHICH RELATES TO AMERICAN TOWER OR THE SPECIFIED CARRIER IS STRICTLY PROHIBITED. TITLE TO THESE DOCUMENTS SHALL REMAIN THE PROPERTY OF AMERICAN TOWER WHETHER OR NOT THE PROJECT IS EXECUTED. NEITHER THE ARCHITECT NOR THE ENGINEER WILL BE PROVIDING ON-SITE CONSTRUCTION REVIEW OF THIS PROJECT. CONTRACTOR(S) MUST VERIFY ALL DIMENSIONS AND ADVISE AMERICAN TOWER OF ANY DISCREPANCIES. ANY PRIOR ISSUANCE OF THIS DRAWING IS SUPERSEDED BY THE LATEST VERSION ON FILE WITH AMERICAN TOWER.

REV.	DESCRIPTION	BY	DATE
0	FIRST ISSUE	CWB	04/01/19

ATC SITE NUMBER:
 302473

ATC SITE NAME:
 E H F R - PRESTIGE PARK
 CONNECTICUT

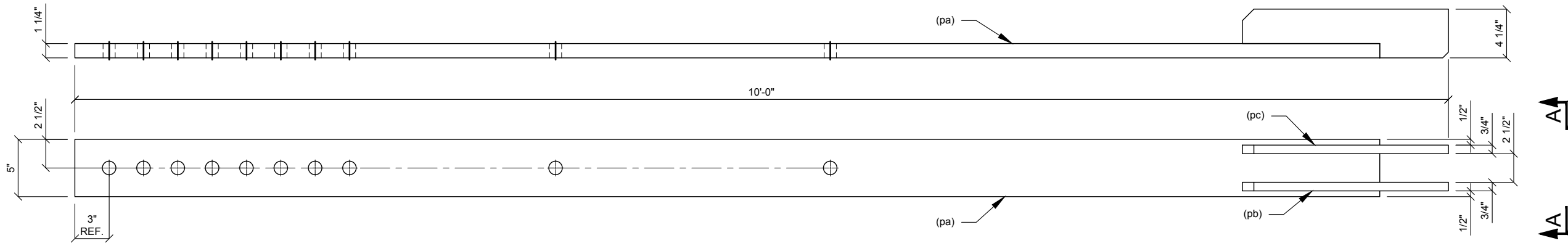
SITE ADDRESS:
 310 PRESTIGE PARK RD.
 EAST HARTFORD, CT 06108

DRAWN BY:	CWB
APPROVED BY:	CDW/KCI
DATE DRAWN:	04/01/19
ATC JOB NO:	OAA745293_C6_06

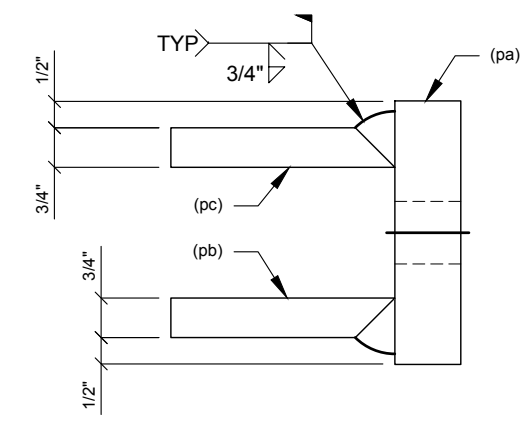
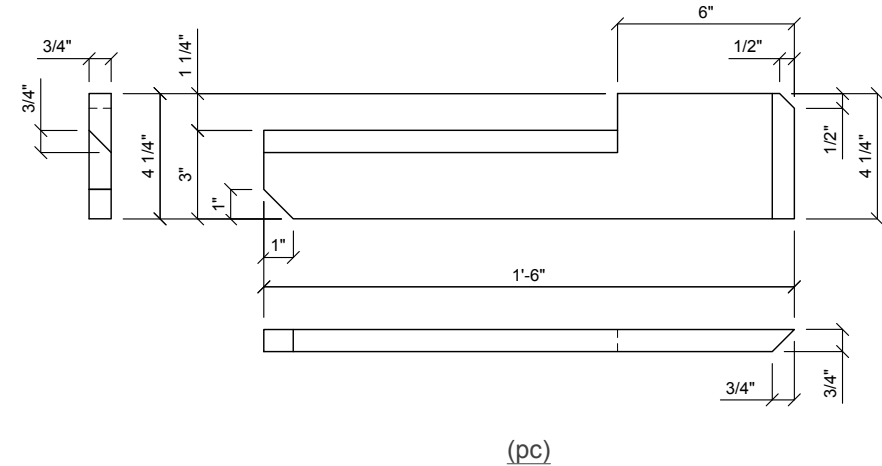
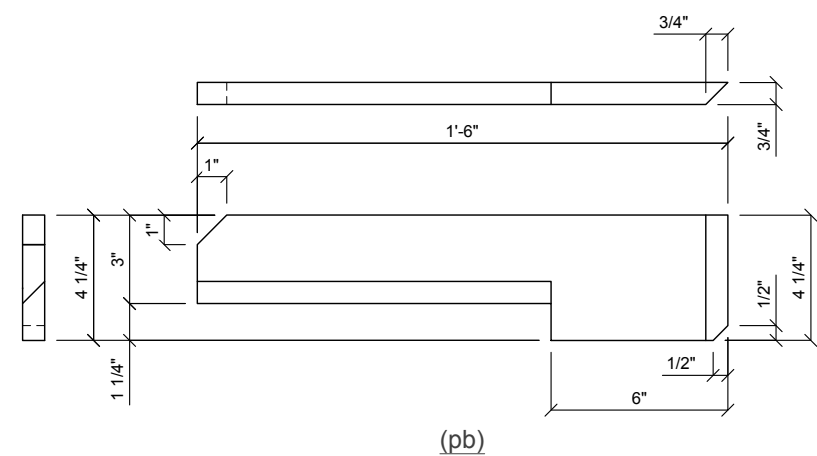
PLATE WELDMENT FABRICATION DETAILS	
SHEET NUMBER: F-3	REVISION: 0

Copyright © 2019 ATC IP, LLC. All Rights Reserved.

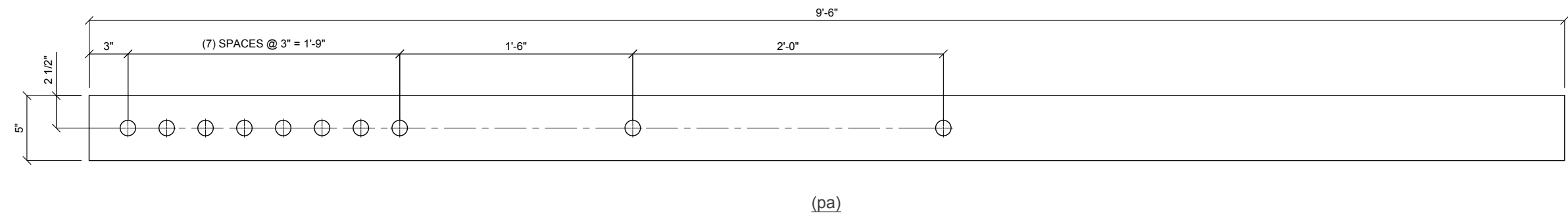
Passing MI Report
 Tuesday, March 24, 2020
 Hannah Childers, CWI



302473-4
 PLATE WELDMENT



SECTION "A-A"
 TYPICAL DETAIL



PART NO.	QTY	DESCRIPTION	LENGTH	NOTES	BLK WT
(pc)	1	PL 3/4" X 3 3/4"	1'-6"	SHAPE	12.9#
(pb)	1	PL 3/4" X 3 3/4"	1'-6"	SHAPE	12.9#
(pa)	1	PL 1 1/4" X 5"	9'-6"		202.0#
302473-4	1	TERMINATION WELDMENT	10'-0"		227.9#
MATERIAL: A572 GR. 65		FINISH: GALVANIZED		HOLES: 1 3/16"Ø	GALV WT: 239.3#

GC As-Builts
 Structural Components
 Ryan Hubert
 3.23.2020

AMERICAN TOWER®
 A.T. ENGINEERING SERVICE, PLLC
 3500 REGENCY PARKWAY
 SUITE 100
 CARY, NC 27518
 PHONE: (919) 468-0112
 COA: PEC.0001553

THESE DRAWINGS AND/OR THE ACCOMPANYING SPECIFICATION AS INSTRUMENTS OR SERVICE ARE THE EXCLUSIVE PROPERTY OF AMERICAN TOWER. THEIR USE AND PUBLICATION SHALL BE RESTRICTED TO THE ORIGINAL SITE FOR WHICH THEY ARE PREPARED. ANY USE OR DISCLOSURE OTHER THAN THAT WHICH RELATES TO AMERICAN TOWER OR THE SPECIFIED CARRIER IS STRICTLY PROHIBITED. TITLE TO THESE DOCUMENTS SHALL REMAIN THE PROPERTY OF AMERICAN TOWER WHETHER OR NOT THE PROJECT IS EXECUTED. NEITHER THE ARCHITECT NOR THE ENGINEER WILL BE PROVIDING ON-SITE CONSTRUCTION REVIEW OF THIS PROJECT. CONTRACTOR(S) MUST VERIFY ALL DIMENSIONS AND ADVISE AMERICAN TOWER OF ANY DISCREPANCIES. ANY PRIOR ISSUANCE OF THIS DRAWING IS SUPERSEDED BY THE LATEST VERSION ON FILE WITH AMERICAN TOWER.

REV.	DESCRIPTION	BY	DATE
0	FIRST ISSUE	CWB	04/01/19

ATC SITE NUMBER:
 302473
 ATC SITE NAME:
 E H F R - PRESTIGE PARK
 CONNECTICUT
 SITE ADDRESS:
 310 PRESTIGE PARK RD.
 EAST HARTFORD, CT 06108

DRAWN BY:	CWB
APPROVED BY:	CDW/KCI
DATE DRAWN:	04/01/19
ATC JOB NO:	OAA745293_C6_06

PLATE WELDMENT
 FABRICATION DETAILS

SHEET NUMBER: F-4	REVISION: 0
-----------------------------	-----------------------

Copyright © 2019 ATC IP LLC. All Rights Reserved.

CONSTRUCTION COMPLIANCE VERIFICATION

3/19/2019

RE: 302473 E H F R Prestige Park
310 Prestige Park Road
East Hartford, CT 06108

Subject: Warranty Letter

To Whom It May Concern:

Structural Components warrants all labor performed and material installed at the above-mentioned job site, in accordance with the contract, drawings, specifications, alterations and additions thereto, for a period of (1) one year from date of installation. This warranty does not include normal wear and tear, and/or product abuse.

Structural Components will be provided the opportunity to have one of its representatives assess any damage identified to be caused by Structural Components employees and/or material installed by Structural Components. If said damage is judged to be the fault of Structural Components workmanship and/or material, Structural Components will at no cost to the Owner repair or replace defective material.

PRODUCT LIMITED WARRANTY. The Products shall perform in accordance with the Company's published limited warranty therefore (the "Limited Warranty"). In the event Customer reasonably determines that any of the Products may have failed to perform in accordance with such limited warranty, Customer acknowledges and agrees that its sole and exclusive remedy for the same shall be set forth in the Limited Warranty.

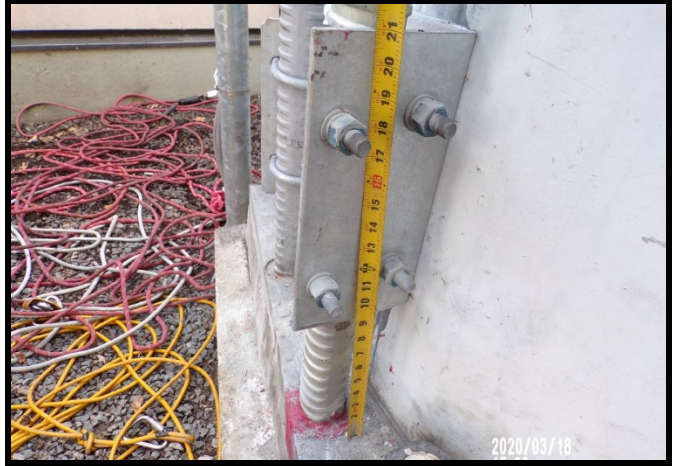
Sincerely,



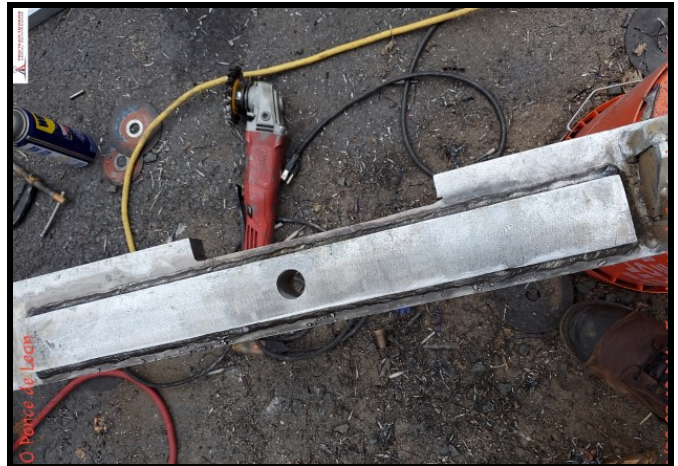
Ryan Hubert
Project Manager

PHOTOGRAPHS

INSPECTION PHOTOS



CONTRACTOR PHOTOGRAPHS



**ENGINEER OF RECORD
CORRESPONDENCE**

From: Kingsley Igboanugo <kingsley.igboanugo@americantower.com>
Sent: Monday, March 23, 2020 5:10 PM
To: Christopher Jolly
Cc: Jon Rodgers; Ian Culbert; PMI
Subject: RE: [EXTERNAL] EHFR Prestige Park, ATC# 302473, TEP# 68504 - MI Punchlist

This is approved.

From: Christopher Jolly <Christopher.Jolly@AmericanTower.com>
Sent: Monday, March 23, 2020 4:54 PM
To: Kingsley Igboanugo <kingsley.igboanugo@americantower.com>
Cc: Jon Rodgers <jon.rodgers@americantower.com>; Ian Culbert <Ian.Culbert@americantower.com>; PMI <PMI@americantower.com>
Subject: RE: [EXTERNAL] EHFR Prestige Park, ATC# 302473, TEP# 68504 - MI Punchlist

Kingsley,

Please see below comments and respond.

Thanks,

Christopher Jolly, P.E.
Structural Engineer III
American Tower Corporation
3500 Regency Parkway, Suite 100
Cary, NC 27518
(919) 466-5007
christopher.jolly@americantower.com

From: Ian Culbert <Ian.Culbert@americantower.com>
Sent: Monday, March 23, 2020 4:45 PM
To: PMI <PMI@americantower.com>
Cc: Jon Rodgers <jon.rodgers@americantower.com>
Subject: FW: [EXTERNAL] EHFR Prestige Park, ATC# 302473, TEP# 68504 - MI Punchlist

Good Afternoon PMI,

Please see below from GC/PMI inspector regarding punch list item #4.

Thanks,

Ian Culbert
Construction Manager – East Region
American Tower Corporation
10 Presidential Way
Woburn, MA 01801
781-926-7805 (Office)
603-401-9127 (Mobile)

Ian.Culbert@americantower.com



AMERICAN TOWER®

From: Ryan Hubert <rhubert@structuralcomponents.net>

Sent: Monday, March 23, 2020 4:43 PM

To: Ian Culbert <Ian.Culbert@americantower.com>

Cc: Hannah Childers <hchilders@tepgroup.net>; Lowell Scarrow <lscarrow@structuralcomponents.net>; Fred Mansfield <fmansfield@metrositellc.com>; Jon Rodgers <jon.rodgers@americantower.com>; Kent Ramey <kent@metrositellc.com>; Scott Blake <Scott.Blake@AmericanTower.com>; Melissa Robinson <mrobinson@metrositellc.com>; Suzanne Whitlock <suzanne@metrositellc.com>; Ashley Jones <ajones@metrositellc.com>; Brittney Ballenger <bballenger@metrositellc.com>; Don Pruitt <don@metrositellc.com>; Jeremy Tanner <jtanner@metrositellc.com>; PMI <PMI@tepgroup.net>; Andrew Luter <aluter@tepgroup.net>

Subject: Re: [EXTERNAL] EHFR Prestige Park, ATC# 302473, TEP# 68504 - MI Punchlist

Ian,

Could you please forward this onto PMI showing that the reason this plate ends at 106'-6" on flat 4 is due to the port hold obstruction that is noted on the drawings.

Thank you



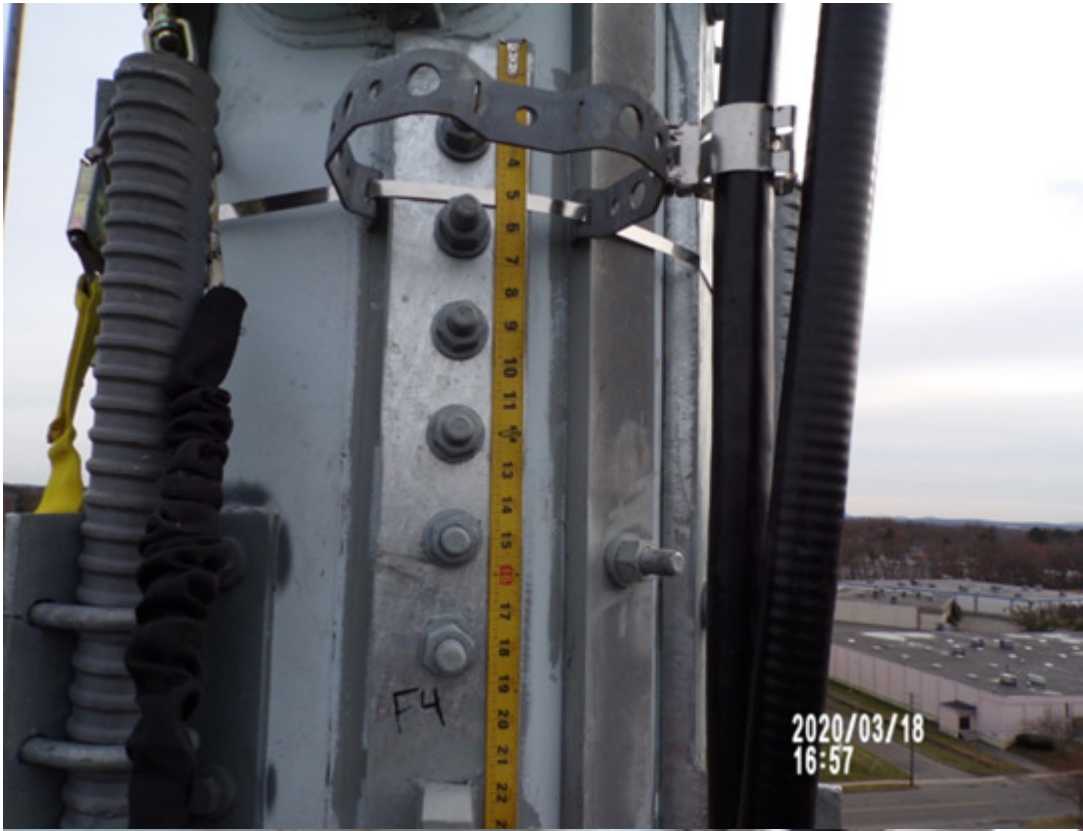
Ryan Hubert
Project Manager
Structural Components LLC
207-450-2369

On Mon, Mar 23, 2020 at 2:17 PM Hannah Childers <hchilders@tepgroup.net> wrote:

Can confirm, Ryan.

That was only on one flat (4) below the port hole. Note that plates begin at 89'-8.5" on flats **1, 7, and 10** and 90'-1" on flat **4**. I switched flats 4 and 10 below.





Thanks,

Hannah J. Childers, CWI

Project Lead . Tower Engineering Professionals, Inc. (www.tepgroup.net)

326 Tryon Road . Raleigh, NC 27603

Office: 919.661.6351 . Fax: 919.661.6350 . Mobile: 828.302.1955

On Mon, Mar 23, 2020 at 4:07 PM Ryan Hubert <rhubert@structuralcomponents.net> wrote:

Hannah,

For punch item #4, I believe this plate ends at 106.5' due to the port. Can you please confirm and send through photos showing this face.

Thank you

Sent from my iPhone

> On Mar 23, 2020, at 1:59 PM, Ian Culbert <ian.Culbert@americantower.com> wrote:

>

From: PMI <PMI@americantower.com>
Sent: Monday, March 23, 2020 3:53 PM
To: Jon Rodgers; Ian Culbert
Cc: Kingsley Igboanugo; PMI
Subject: RE: [EXTERNAL] EHFR Prestige Park, ATC# 302473, TEP# 68504 - MI Punchlist

Jon / Ian,

Please see below responses to punch list issues.

Thanks,

Christopher Jolly, P.E.

Structural Engineer III

American Tower Corporation

3500 Regency Parkway, Suite 100

Cary, NC 27518

(919) 466-5007

christopher.jolly@americantower.com

From: Kingsley Igboanugo <kingsley.igboanugo@americantower.com>
Sent: Monday, March 23, 2020 8:56 AM
To: PMI <PMI@americantower.com>
Subject: RE: [EXTERNAL] EHFR Prestige Park, ATC# 302473, TEP# 68504 - MI Punchlist

All Punch List are approved except #4.

Flat plates ending at 106.5' is not approved. They need to tell us if there are obstructions at the specified elevations, otherwise flat plates should be installed from 90-ft to 110-ft.

Please let me know if you any further questions.

Thanks,

Kingsley C. Igboanugo, PE

Structural Engineer III

American Tower Corporation

3500 Regency Parkway, Suite 100

Cary, NC 27518

919.466.5275 office

919.466.5415 fax

kingsley.igboanugo@americantower.com

TEXTING and DRIVING... It Can Wait. **Take the pledge** today and pass it on.

From: Jon Rodgers <jon.rodgers@americantower.com>
Sent: Friday, March 20, 2020 4:31 PM
To: PMI <PMI@americantower.com>

Cc: Ian Culbert <Ian.Culbert@americantower.com>

Subject: FW: [EXTERNAL] EHFR Prestige Park, ATC# 302473, TEP# 68504 - MI Punchlist

Hi PMI,

Please review and advise on the punch items below.

Thanks,

Jon Rodgers

SR. Construction Manager

American Tower Corporation

10 Presidential Way

Woburn, MA. 01801

(781)-926-7855 (Office)

(617)-839-5143 (Mobile)

jon.rodgers@americantower.com

From: Hannah Childers <hchilders@tepgroup.net>

Sent: Thursday, March 19, 2020 11:59 PM

To: Ryan Hubert <rhubert@structuralcomponents.net>; Ian Culbert <Ian.Culbert@americantower.com>; Lowell Scarrow <lscarrow@structuralcomponents.net>; Fred Mansfield <fmansfield@metrositellc.com>; Jon Rodgers <jon.rodgers@americantower.com>; Kent Ramey <kent@metrositellc.com>; Scott Blake <Scott.Blake@AmericanTower.com>; Melissa Robinson <mrobinson@metrositellc.com>; Suzanne Whitlock <suzanne@metrositellc.com>; Ashley Jones <ajones@metrositellc.com>; Brittney Ballenger <bballenger@metrositellc.com>; Don Pruitt <don@metrositellc.com>; Jeremy Tanner <jtanner@metrositellc.com>; PMI <pmi@tepgroup.net>; Andrew Luter <acluter@tepgroup.net>

Subject: [EXTERNAL] EHFR Prestige Park, ATC# 302473, TEP# 68504 - MI Punchlist

All,

TEP inspected the mod at Prestige Park on 3/18/20. Please review the discrepancies below and let me know if you have any questions. The crew mentioned some EOR approvals for a few of these issues, so please forward all correspondence and we will update the punch list accordingly.

MI Summary:

1. #20 bracket spacing exceeds the 30" specified maximum in the following locations:
 - a. Flat 1; 32" around the port hole at 4-ft
 - b. Flats 4 and 10; 36" and 37" around port holes. An extra bracket has been added at the base.



2. Dywidag bars are offset on flats 4 and 10 due to the portholes.



3. Top of new dywidag rods measures 21'-11" rather than 22'-6" as specified.



4. Plates begin at 89'-8.5" on flats 1, 4, and 7 and 90'-1" on flat 10 and end at 109'-2.5" and 106'-6". Tower splice measures 109'-9.5".





5. Shims have been added behind the bottom half of plate 1 on all flats to avoid the horizontal tower weld seam on all flats. The shims stagger from 3/16" to 1/16" thick.



6. Blind bolts have been cut at the flat 11 plate weldment behind the dywidag bar.



7. A 3" long by 1/16" deep gouge is present in plate 2 on flat 1 below the upper termination bolts.



Thanks,

Hannah J. Childers, CWI

Project Lead . Tower Engineering Professionals, Inc. (www.tepgroup.net)

326 Tryon Road . Raleigh, NC 27603

Office: 919.661.6351 . Fax: 919.661.6350 . Mobile: 828.302.1955

From: Christopher Baker <Christopher.Baker@americantower.com>
Sent: Monday, March 9, 2020 12:41 PM
To: PMI; Ian Culbert; Kingsley Igboanugo
Subject: RE: [EXTERNAL] Re: NTP - ATC Site #302473 E H F R - Prestige Park - Redev AT&T Mobility

After talking to engineer again, decided that the weld will need to be 5/16" fillet all around after all, as 3/16" would fail. Sorry for the confusion.

Christopher Baker
Structural Designer I
American Tower Corporation
919-466-5295 office
christopher.baker@americantower.com

From: PMI <PMI@americantower.com>
Sent: Friday, March 6, 2020 2:10 PM
To: Ian Culbert <Ian.Culbert@americantower.com>; PMI <PMI@americantower.com>; Kingsley Igboanugo <kingsley.igboanugo@americantower.com>
Cc: Christopher Baker <Christopher.Baker@americantower.com>
Subject: RE: [EXTERNAL] Re: NTP - ATC Site #302473 E H F R - Prestige Park - Redev AT&T Mobility

[@Kingsley Igboanugo](#),

This detail is a bit confusing to me. I imagine it is the 3/4" weld listed on A4-A but could you please confirm?

Nathan Haselden, PE
Structural Engineer II
American Tower Corporation
(919) 466-5180 office
TEXTING and DRIVING... It Can Wait. [Take the pledge](#) today and pass it on.
nathan.haselden@americantower.com

From: Ian Culbert <Ian.Culbert@americantower.com>
Sent: Friday, March 6, 2020 11:17 AM
To: PMI <PMI@americantower.com>
Subject: FW: [EXTERNAL] Re: NTP - ATC Site #302473 E H F R - Prestige Park - Redev AT&T Mobility

Good Morning PMI,

Please see below. GC is looking for a weld detail for the flat plate.

Thanks,

Ian Culbert
Construction Manager – East Region
American Tower Corporation

10 Presidential Way
Woburn, MA 01801
781-926-7805 (Office)
603-401-9127 (Mobile)
lan.Culbert@americantower.com



AMERICAN TOWER®

From: Ryan Hubert <rhubert@structuralcomponents.net>
Sent: Friday, March 6, 2020 11:08 AM
To: Ian Culbert <lan.Culbert@americantower.com>
Cc: Lowell Scarrow <lscarrow@structuralcomponents.net>; Fred Mansfield <fmansfield@metrositellc.com>; Jon Rodgers <jon.rodgers@americantower.com>; Kent Ramey <kent@metrositellc.com>; acluter@tepgroup.net; Scott Blake <Scott.Blake@AmericanTower.com>; Melissa Robinson <mrobinson@metrositellc.com>; Suzanne Whitlock <suzanne@metrositellc.com>; Ashley Jones <ajones@metrositellc.com>; Brittney Ballenger <bballenger@metrositellc.com>; Don Pruitt <don@metrositellc.com>; Jeremy Tanner <jtanner@metrositellc.com>
Subject: [EXTERNAL] Re: NTP - ATC Site #302473 E H F R - Prestige Park - Redev AT&T Mobility

Ian,

The flat plate that is being trimmed to fit behind the mount has an additional plate that needs to be welded to it. There is no weld detail in the mods for what is needed, please see the A-4B page of the attached mods. Could you please ask engineering for a weld detail.

