

Telephone: 781-970-0053 Email: jeff.barbadora@crowncastle.com

March 8, 2022

Melanie Bachman Executive Director Connecticut Siting Council Ten Franklin Square New Britain, CT06051

Re: Construction Close Out - BU# 871584 App# 529712– T-Mobile Site ID: CT11189E EM-T-Mobile-054-210305 – Exempt Modification 115 Birch Mountain Road Glastonbury, CT

Dear Ms. Bachman;

This letter is to confirm all construction activities at the above reference site have been completed per the conditions of approval, **EM-T-Mobile-054-210305**, dated April 5, 2021. A stamped and signed MI report is enclosed to satisfy condition number two of the Council's decision.

Please contact if you should have any questions.

ABur

Jeffrey Barbadora Crown Castle Site Acquisition Specialists

Date: November 17, 2020 Engineered Tower Solutions, PLLC 3227 Wellington Court Raleigh, NC 27615 Office: (919) 782-2710



Modification Inspection Report

Crown Castle Site Information

Crown POC: Dan Vadney 3 Corporate Park Drive, Suite 101 Clifton Park, NY 12065 BU Number: 871584 Site Name: John Tom Hill Site Address: 115 Birch Mtn. Road, Glastonbury, Connecticut 06033, Hartford County, USA

Latitude 41° 42′ 32.24″, Longitude -72° 28′ 24.41″ 200 Foot – Self Support Tower

Engineered Tower Solutions, PLLC is pleased to submit this **"Modification Inspection Report"** to Crown Castle for the modification/reinforcement to the subject structure. This Modification Inspection (MI) was performed in accordance with CED-SOW-10007 Modification Inspection SOW.

Based on our inspection, Engineered Tower Solutions, PLLC determines this project:

PASSING MI

The configuration, materials and/or workmanship of the modifications are installed in accordance with the Contract Documents. If additional information or the full report are required, please contact Crown Castle.

Modification Design Information:

SDD Vendor: Crown Castle SDD Date: June 8, 2020 Vendor Job Number: 1853234 Name of EOR: Maham Barimani, PE Source of SDD: 9122283

MI Vendor Information:

Dates on Site: 11/12/20 MI Crew Lead: Hunter Thomas, CWI

We at Engineered Tower Solutions, PLLC appreciate the opportunity of providing our continuing professional services to you and Crown Castle. If you have any questions or need further assistance on this or any other projects please give us a call.

Respectfully submitted,

Frederic Bost, PE President

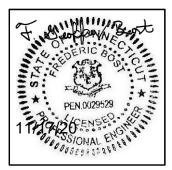


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RECORD DRAWINGS

9.2.1 MI INSPECTOR REDLINE OR RECORD DRAWING(S)



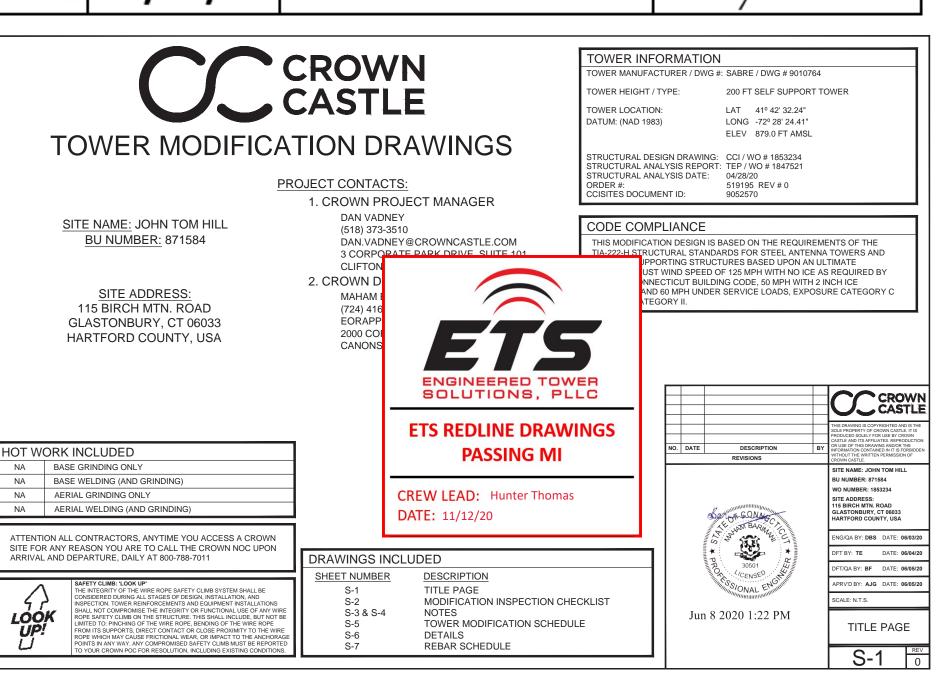
NA

NA

NA

NA

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		MIC	HECKLIST]	MODIFICATION INSPECTION N	OTES
REQUIRED	REPORT ITEM	APPLICABLE CROWN DOC #	BRIEF DESCRIPTION	GENERAL		
			NSTRUCTION	THE MI IS AN ON-SITE VISUAL		
х	MI CHECKLIST DRAWING	CED-SOW-10007	THIS CHECKLIST SERVES AS A GUIDELINE FOR THE REQUIRED CONSTRUCTION DOCUMENTS AND INSPECTIONS FOR THIS MODIFICATION.	ADDITIONAL PERTINENT DOCU 3RD PARTY INSPECTORS. THE THE MODIFICATION DRAWINGS;		
NA	EOR APPROVED SHOP DRAWINGS	CED-SOW-10007	ONCE THE PRE-MODIFICATION MAPPING IS COMPLETE AND PRIOR TO FABRICATION, THE CONTRACTOR SHALL PROVIDE DETAILED ASSEMBLY DRAWINGS AND/OR SHOP DRAWINGS. THESE ARE TO INCLUDE, BUT ARE NOT LIMITED TO, A VISUAL LAYOUT OF NEW REINFORCEMENT, EXISTING REINFORCEMENT CONFIGURATION, PORTHOLES, MOUNTS, STEP PEGS, SAFETY CLIMES AND ANY OTHER MISCELLANEOUS ITEMS WHICH MAY AFFECT SUCCESSFUL INSTALLATION OF MODIFICATIONS ON THE TOWER. THESE DRAWINGS SHALL BE SUBMITED TO THE EOR FOR APPROVAL. SHOP DRAWINGS SUBMISSION SHALL INCLUDE THE EOR RFI FORM DETAILING ANY CHANGES FROM THE ORIGINAL DESIGN.	NO DOCUMENT, CODE OR POL SOURCE OF GUIDING PRINCIPLE THE MI IS TO CONFIRM INSTALL MI INSPECTOR DOES NOT TAKE AND INTEGRITY RESIDES WITH TO THE CROWN POINT OF CON		
NA	FABRICATION INSPECTION	CED-SOW-10007	A LETTER FROM THE FABRICATOR, STATING THAT THE WORK WAS PERFORMED IN ACCORDANCE WITH INDUSTRY STANDARDS AND THE CONTRACT DOCUMENTS, SHALL BE PROVIDED TO THE MI INSPECTOR FOR INCLUSION IN THE MI REPORT.	ALL MI'S SHALL BE CONDUCTEE "APPROVED MI VENDORS". TO ENSURE THAT THE REQUI	ET	5
NA	FABRICATOR CERTIFIED WELD INSPECTION	CED-SOW-10007 CED-STD-10069	A CWI SHALL INSPECT ALL WELDING PERFORMED ON STRUCTURAL MEMBERS DURING FABRICATION. A WRITTEN REPORT SHALL BE PROVIDED TO THE MI INSPECTOR FOR INCLUSION IN THE MI REPORT.	COMMUNICATING AND COORDI REACHING OUT TO THE OTHER		
х	MATERIAL TEST REPORTS (MTR)	CED-SOW-10007	MATERIAL TEST REPORTS SHALL BE PROVIDED FOR MATERIAL USED AS REQUIRED PER SECTION 9.2.5 OF CED-SOW-10007. MTRS SHALL BE PROVIDED TO THE MI INSPECTOR FOR INCLUSION IN THE MI REPORT.	CONTACT (POC). REFER TO CROWN CED-SOW-10		
NA	FABRICATOR NDE INSPECTION REPORT	CED-SOW-10066 CED-STD-10069	CRITICAL SHOP WELDS THAT REQUIRE TESTING ARE NOTED ON THESE CONTRACT DRAWINGS. A CERTIFIED NDT INSPECTOR SHALL PERFORM NON-DESTRUCTIVE EXAMINATION AND A REPORT SHALL BE PROVIDED TO THE MI INSPECTOR FOR INCLUSION IN THE MI REPORT.	SERVICE LEVEL C	ENGINEERED T SOLUTIONS,	
NA	NDE OF MONOPOLE BASE PLATE	ENG-SOW-10033	A NDE OF THE POLE TO BASE PLATE CONNECTION IS REQUIRED AND A WRITTEN REPORT SHALL BE PROVIDED TO THE MI INSPECTOR FOR INCLUSION IN THE MI REPORT.	THE FOLLOWING RECOMMEND REPORT:		
х	PACKING SLIPS	CED-SOW-10007	PACKING/SHIPPING LIST FOR ALL MATERIAL THAT WAS USED DURING CONSTRUCTION OF THE MODIFICATION.	THE GC SHALL PROVIDE A FOR THE MI TO BE CONDUC		
DDITIONAL TEST	ING AND INSPECTIONS:			THE GC AND MI INSPECTOF WHEN POSSIBLE, IT IS P RE-TENSIONING OPERATIO	ETS REDLINE DR	AWINGS
X OR NA	<u> </u>			 WHEN POSSIBLE, IT IS PRE DURING THE INITIAL MI. T 	DACCINICA	A1
		CONS	STRUCTION	AT THEIR DISPOSAL WHEN	PASSING N	/11
x	FOUNDATION INSPECTIONS	CED-SOW-10144	A VISUAL OBSERVATION OF THE EXCAVATION AND REBAR SHALL BE PERFORMED BEFORE PLACING THE CONCRETE. A VISUAL OBSERVATION OF THE REBAR SHALL BE PERFORMED BEFORE PLACING THE EPOXY. A SEALED WRITTEN REPORT SHALL BE PROVIDED TO THE INI RSPECTOR FOR INCLUSION IN THE MI REPORT.	REQUIRED PHOTO		
x	CONCRETE COMP. STRENGTH AND SLUMP TEST	CED-SOW-10144	THE CONCRETE MIX DESIGN, SLUMP TEST, AND COMPRESSIVE STRENGTH TESTS SHALL BE PROVIDED AS PART OF THE FOUNDATION REPORT.	BETWEEN THE GC AND THE MI I PRE-CONSTRUCTION GENE	CREW LEAD: Hunter The	omas
х	EARTHWORK	CED-SOW-10144	FOUNDATION SUB-GRADES SHALL BE INSPECTED AND APPROVED BY AN APPROVED FOUNDATION INSPECTOR AND RESULTS INCLUDED AS PART OF THE FOUNDATION REPORT.	PHOTOGRAPHS DURING TH RAW MATERIALS PHOTOS OF ALL CRI		
NA	MICROPILE/ROCK ANCHOR	CED-SOW-10144	MICROPILES/ROCK ANCHORS SHALL BE INSPECTED BY THE FOUNDATION INSPECTION VENDOR AND SHALL BE INCLUDED AS PART OF THE FOUNDATION INSPECTION REPORT, ADDITIONAL TESTING AND/OR INSPECTION	PROTOS OF ALL CRI FOUNDATION MODIF WELD PREPARATION BOLT INSTALLATION	DATE: 11/12/20	
NA	POST-INSTALLED ANCHOR ROD VERIFICATION	CED-SOW-10007	REQUIREMENTS ARE NOTED IN THESE CONTRACT DOCUMENTS. POST INSTALLED ANCHOR ROD VERIFICATION SHALL BE PERFORMED IN ACCORDANCE WITH CROWN REQUIREMENTS AND A REPORT SHALL BE PROVIDED TO THE MI INSPECTOR FOR INCLUSION IN THE MI REPORT.	FINAL INSTALLED CC SURFACE COATING POST CONSTRUCTION PHO FINAL INFIELD COND	CPAIN TOGRAPHS TION	
NA	BASE PLATE GROUT VERIFICATION	ENG-STD-10323	REPORT. THE GENERAL CONTRACTOR SHALL PROVIDE DOCUMENTATION TO THE MI INSPECTOR THAT CERTIFIES THAT THE GROUT WAS REMOVED AND/OR INSTALLED IN ACCORDANCE WITH CROWN REQUIREMENTS FOR INCLUSION IN THE MI REPORT.	PHOTOS OF ELEVATED MODIFIC	ATION STAKEN ONLY FROM THE GROUND SHALL BE CONSIDERED INADEQU	
NA	FIELD CERTIFIED WELD INSPECTION	CED-SOW-10066 CED-STD-10069	A CROWN APPROVED CERTIFIED WELD INSPECTOR SHALL INSPECT AND TEST FIELD WELDS, FOLLOWING ALL PROCEDURES SPECIFIED IN CROWN STANDARD DOCUMENTS APPLICABLE TO WELD INSPECTIONS. A REPORT SHALL BE PROVIDED. NDE OF FIELD WELDS SHALL BE PREFORMED AS REQUIRED BY CROWN STANDARDS AND CONTRACT DOCUMENTS. THE NDE REPORT SHALL BE INCLUDED IN THE CWI REPORT.	-		
NA	ON-SITE COLD GALVANIZING VERIFICATION	ENG-STD-10149	THE GENERAL CONTRACTOR SHALL PROVIDE WRITTEN AND PHOTOGRAPHIC DOCUMENTATION TO THE MI INSPECTOR VERIFYING THAT ANY ON-SITE COLD GALVANIZING WAS APPLIED PER MANUFACTURER SPECIFICATIONS AND APPLICARE FSTANDARDS.			THIS DRAWING IS COPYRIGHTED AN SOLE PROPERTY OF CROWN CASTL PRODUCED SOLELY FOR USE BY CF
NA	TENSION TWIST AND PLUMB	CED-PRC-10182 CED-STD-10261	THE GENERAL CONTRACTOR SHALL PROVIDE A REPORT IN ACCORDANCE WITH APPLICABLE STANDARDS DOCUMENTING TENSION TWIST AND PLUMB.	-	NO. DATE DESCRIPTION BY	CASTLE AND ITS AFFILIATES. REPR
х	GC AS-BUILT DRAWINGS	CED-SOW-10007	THE GENERAL CONTRACTOR SHALL SUBMIT A LEGIBLE COPY OF THE ORIGINAL DESIGN DRAWINGS EITHER STATING "INSTALLED AS DESIGNED' OR NOTING ANY CHANGES THAT WERE REQUIRED AND APPROVED BY THE ENGINEER OF RECORD, EOR/RFI FORMS APPROVING ALL CHANGES SHALL BE SUBMITTED.		REVISIONS	WITHOUT THE WRITTEN PERMISSIO CROWN CASTLE. SITE NAME: JOHN TOM HI
DDITIONAL TEST	ING AND INSPECTIONS:			1		BU NUMBER: 871584
X OR NA				1		WO NUMBER: 1853234
		POST-CO	DNSTRUCTION	1		SITE ADDRESS:
х	CONSTRUCTION COMPLIANCE LETTER	CED-SOW-10007	A LETTER FROM THE GENERAL CONTRACTOR STATING THAT THE WORKMANSHIP WAS PERFORMED IN ACCORDANCE WITH INDUSTRY STANDARDS AND THESE CONTRACT DRAWINGS, INCLUDING LISTING ADDITIONAL PARTIES TO THE MODIFICATION PROCESS.		Carlos SONASC	115 BIRCH MTN. ROAD GLASTONBURY, CT 06033 HARTFORD COUNTY, USA
NA	POST-INSTALLED ANCHOR ROD PULL TESTS	CED-PRC-10119	ADDITIONAL PARTIES TO THE MODIFICATION PROCESS. POST-INSTALLED ANCHOR RODS SHALL BE TESTED BY A CROWN APPROVED PULL TEST INSPECTOR AND A REPORT SHALL BE PROVIDED INDICATING TESTING RESULTS.	1	A STATI BARING C	ENG/QA BY: DBS DATE:
х	PHOTOGRAPHS	CED-SOW-10007	PHOTOGRAPHS SHALL BE SUBMITTED TO THE MI. PHOTOS SHALL DOCUMENT ALL PHASES OF THE CONSTRUCTION. THE PHOTOS SHALL BE ORGANIZED IN A MANNER THAT EASILY IDENTIFIES THE EXACT LOCATION OF THE PHOTO.		*	DFT BY: TE DATE:
NA	BOLT HOLE INSTALLATION VERIFICATION REPORT	CED-SOW-10007	THE MI INSPECTOR SHALL VERIFY THE INSTALLATION AND TIGHTNESS 10% OF ALL NON PRE-TENSIONED BOLTS INSTALLED AS PART OF THE MODIFICATION. THE MI INSPECTOR SHALL LOOSEN THE NUT AND VERIFY THE BOLT HOLE SIZE AND CONDITION. THE MI REPORT SHALL CONTAIN THE COMPLETED BOLT INSTALLATION VERIFICATION REPORT, INCLUDING THE SUPPORTING PHOTOGRAPHS.	1	R 30501	DFT/QA BY: BF DATE: APRV'D BY: AJG DATE:
х	PUNCHLIST DEVELOPMENT AND CORRECTION DOCUMENTATION	CED-PRC-10283 CED-FRM-10285	FINAL PUNCHLIST INDICATING ALL NONCONFORMANCE(S) IDENTIFIED AND THE FINAL RESOLUTION/APPROVAL.		CIVAL MININ	SCALE: N.T.S.
х	MI INSPECTOR REDLINE OR RECORD DRAWING(S)	CED-SOW-10007	THE MI INSPECTOR SHALL OBSERVE AND REPORT ANY DISCREPANCIES BETWEEN THE CONTRACTOR'S REDLINE DRAWING AND THE ACTUAL COMPLETED INSTALLATION.		Jun 8 2020 1:22 PM	MODIFICATI
DDITIONAL TEST	ING AND INSPECTIONS:			1	5un 0 2020 1.22 1 Wi	INSPECTIO
X OR NA]		CHECKLIS
	ALL BE REVIEWED PRIOR TO THE START OF CONSTRUCTION. ALL PARTIES TO THE	MODIFICATION SHALL U	INDERSTAND CROWN REQUIREMENTS AND INSPECTION/DOCUMENTATION THAT IS APPLICABLE TO THE SCOPE OF WORK THEY ARE AS POSSIBLE.			S-2

Sabre Industries 11/09/20 INSTALLED AS DESIGNED



GENERAL NOTES

- The General Contractor (GC) shall reference CED-STD-10159, "Tower 1. Modification Construction Specifications", as a continuation of the following General Notes. The GC shall keep a copy of this document with the Structural Design Drawings (SDD) at all times, and shall ensure that all Contractor Personnel are aware of the information enclosed within the General Notes and CED-STD-10159.
- 2. The Contract Documents are the property of Crown Castle (Crown). They are provided to the GC and its Lower Tier Contractors and material suppliers for the limited purpose of use in completing the Work for this Site, and shall be kept in strict confidence and not disclosed to any third parties. The Contract Documents shall not be used for any other purpose whatsoever without the prior written consent of Crown.
- Detail drawings, including notes and tables, shall govern over general notes 3. and typical details. Contact the Crown Point of Contact (POC) and Engineer of Record (EOR) for clarification as needed.
- 4 Do not scale drawings.
- 5. Any Work performed without a prefabrication mapping is done at the risk of the GC and/or fabricator. All dimensions of existing structural elements are assumed based on the available documentation and are preliminary until field-verified by the GC, unless noted otherwise (UNO). Where discrepancies are found, GC shall contact the Crown POC and EOR through RFI.
- 6. For this analysis and modification, the tower has been assumed to be in good condition without any structural defects, UNO. If the GC discovers any indication of an existing structural defect, contact the Crown POC and EOR immediately
- 7. All construction means and methods, including but not limited to erection plans, rigging plans, climbing plans, and rescue plans, shall be the responsibility of the GC responsible for the execution of the Work contained herein, and shall meet ANSI/ASSE A10.48 (latest edition); federal, state, and local regulations; and any applicable industry consensus standards related to the construction activities being performed. All rigging plans shall adhere to ANSI/ASSE A10.48 (latest edition) and Crown standard CED-STD-10253, "Rigging Program", including the required involvement of a qualified engineer for class IV construction to certify the supporting structure(s) in accordance with the ANSI/TIA-322 (latest edition).
- The structural integrity of the modification design extends to the complete 8. condition only. The GC must be cognizant that the removal of any structural component of an existing tower has the potential to cause the partial or complete collapse of the structure. All necessary precautions must be taken to ensure structural integrity, including, but not limited to, engineering assessment of construction stresses with installation maximum wind speed and/or temporary bracing and shoring.
- Aerial and underground utilities and facilities may or may not be shown on the 9. drawings. The GC shall take every precaution to preserve and protect these items, which may include aerial or underground power lines, telephone lines, water lines, sewer lines, cable television facilities, pipelines, structures and other public and private improvements within or adjacent to the Work area. The responsibility for determining the actual on-site location of these items shall rest exclusively with the GC.
- 10. All manufacturer's hardware assembly instructions shall be followed, UNO. Conflicting notes shall be brought to the attention of the EOR and the Crown POC.

11. The GC shall fabricate all required items per the materials specified below, UNO on the detail drawing sheets. If the GC finds for any component that the materials have not been clearly specified, the GC shall submit an RFI to the EOR to confirm the required material.

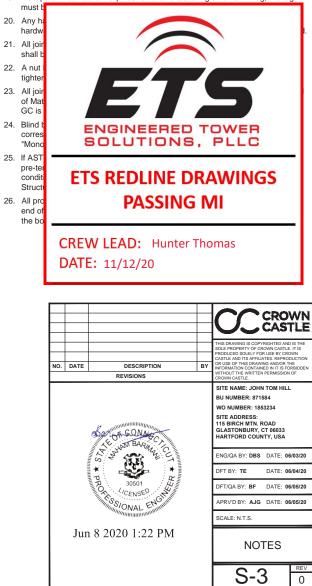
All structural elements shall be new and shall conform to the following requirements, UNO:

Monopoles:

- Structural shapes and plates: ASTM A572 Grade 65 (FY = 65 KSI) · Welding electrodes, SMAW: E80XX • Welding electrodes, FCAW: E8XT-XX · Welding electrodes, GMAW: ER80S-X Self-Support and Guyed Towers: · Structural shapes and plates: ASTM A572 Grade 50 (FY = 50 KSI) E70XX · Welding electrodes, SMAW: · Welding electrodes, FCAW: E7XT-XX · Welding electrodes, GMAW: ER70S-X All tower types: Steel angle: ASTM A572 Grade 50 (FY = 50 KSI) · Solid rod: ASTM A36 (FY = 36 KSI) ASTM A500 Grade C (FY = 46 KSI) · Pipe/tube (round): · Pipe/tube (square): ASTM A500 Grade C (FY = 50 KSI) · Bolts: ASTM F3125 Grade A325 Type 1 U-bolts: ASTM A307 Grade A. or SAE J429 Grade 2
- Nuts: ASTM A563 Grade DH
- · Washers: ASTM F436 Type 1
- · Guy Wires: ASTM A475 Grade EHS
- Bridge Strand: ASTM A586 Grade 1
- 12. After fabrication, hot-dip galvanize all steel items, UNO. Galvanize per ASTM A123, ASTM A153/A153M, or ASTM A653 G90, as applicable. ASTM A490 bolts shall not be hot-dip galvanized, but shall instead be coated with Magni 565 or EOR approved equivalent, per ASTM F2833.
- 13. Contractor Personnel shall not drill holes in any new or existing structural members, other than those drilled holes shown on structural drawings, without the approval of the EOR.
- 14. For a list of Crown-approved cold galvanizing compounds, refer to ENG-STD-10149, "Tower Protective Coatings Guidelines"
- 15. All exposed structural steel as the result of this scope of Work including welds (after final inspection of the weld by the CWI), field drilled holes, and shaft interiors (where accessible), shall be cleaned and two (2) coats cold galvanizing shall be applied by brush in accordance with ENG-STD-10149, "Tower Protective Coatings Guidelines". Photo documentation is required to be submitted to the MI Inspector.
- 16. If removal of existing modifications is required per the modification scope, the GC shall clean and cold galvanize any existing empty bolt holes, UNO. If additional unexpected, oversized, or slotted holes are found, the GC shall contact the EOR and Crown POC for guidance prior to proceeding with the modifications
- 17. All Work involving base plate grout scope items or resulting in disturbance of base plate grout shall reference ENG-STD-10323, "Base Plate Grout", and shall follow any Base Plate Grout Removal Notes contained herein.

18. All tower grounding affected by the Work shall be repaired or replaced in accordance with OPS-STD-10090, "Tower Grounding", and OPS-BUL-10133, "Grounding Repair Recommendation".





Sabre Industries 11/09/20 INSTALLED AS DESIGNED Phillip Feora

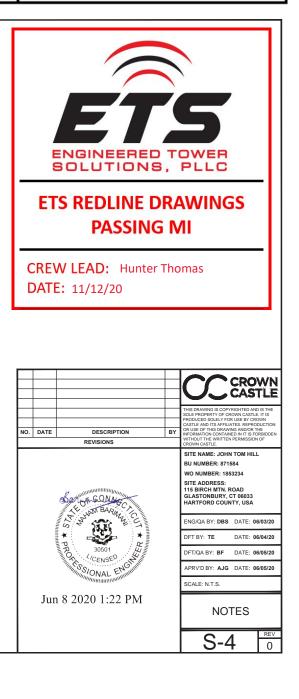
CONCRETE NOTES

- All concrete work shall be in accordance with ACI 301 specifications for structural concrete (latest edition). All concrete shall 1. have a minimum 28 day compressive strength of 4000 PSI and air entrained at 6% ± 1.5%.
- 2. Prepare and submit batch tickets for each type and strength of concrete. All concrete parameters (strength, slump, water content, aggregates, additives, etc.) shall meet the requirements of the concrete design mix engineer.
- 3. For field mixing, prepare and submit mix designs for pre-approval for each type and strength of concrete in accordance with ACI 211, "Proportioning Concrete Mixtures", and ACI 301, "Specifications for Structural Concrete".
- All concrete shall be normal weight concrete. 4.
- Slump test shall be made in accordance with ASTM C143. The allowable concrete slump shall be 4 inches unless 5. super-plasticizers are used.
- The engineer shall pre-approve superplasticizer use. 6.
- 7. Cement shall conform to ASTM C150 Type II. Fine aggregate shall conform to ASTM C33. Course aggregate shall be gravel or crushed stone conforming to ASTM C33. maximum aggregate size shall be 3/4".
- 8. Water shall be clean and free from oils, acids, alkalies, and organic materials. No additional water shall be added to the concrete at the job site.
- Do not use chloride-containing admixtures. 9.
- 10. Air entraining admixtures shall conform to ASTM C260.
- 11. Hot weather concrete placement shall comply with ACI 305R. Cold weather concrete placement shall comply with ACI 306.1.
- 12. Concrete shall be placed within 24 hours of excavation inspections. The contractor shall be responsible for protecting exposed excavations prior to concrete placement.
- 13. Place concrete by using a chute or hopper device such that concrete shall not free fall from a height greater than 5 feet Deposit concrete within the center of the steel reinforcing cage to prevent segregation.
- 14. Consolidate placed concrete with mechanical vibrating equipment in accordance with ACI 309R. Do not use vibrators to transport concrete
- 15. Concrete shall be cured in accordance with ACI 301. When applicable, curing compounds shall be water clear, styrene acrylate type with a minimum solids content of 30%. Application shall be in conformance with manufacturer's instructions.

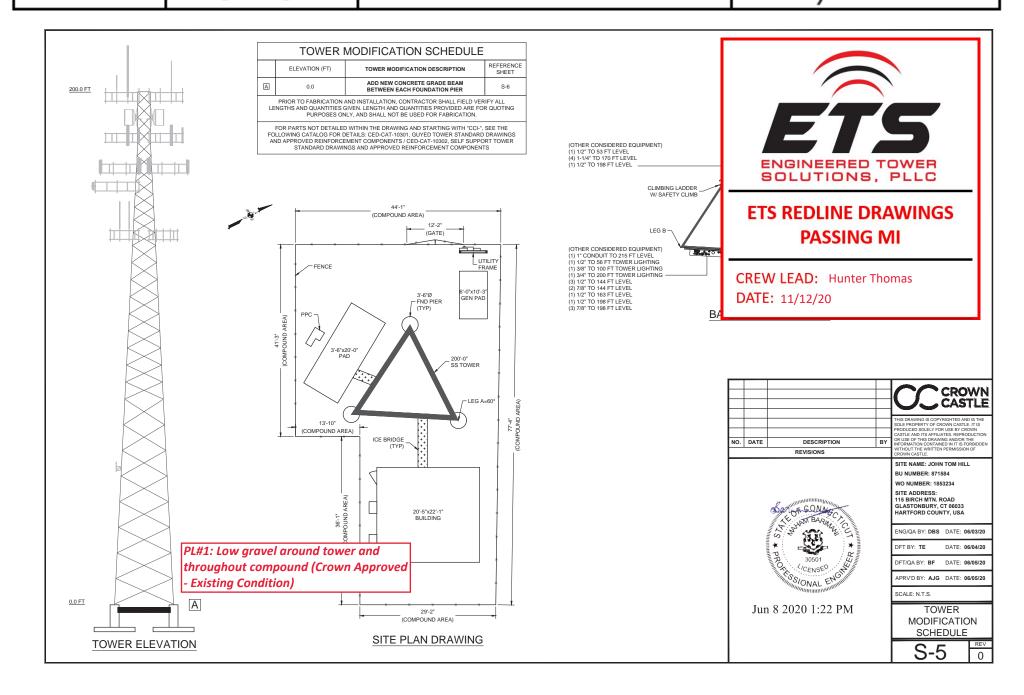
CONCRETE REINFORCING STEEL NOTES

- All reinforcing steel shall be deformed billet steel conforming to ASTM A615, Grade 60 unless noted otherwise. 1.
- 2. Reinforcing steel shall be detailed, fabricated, bent and placed in accordance with the CRSI Manual of Standard Practice and the ACI 315 (latest edition)
- 3. Welding of reinforcing and embedments is prohibited.
- All reinforcing steel shall have a minimum three (3) inches concrete coverage unless noted otherwise. 4.
- Spacing devices shall be used as required to maintain the side and bottom clearance between the steel reinforcement and 5. excavation

If acceptable with 95% of design strength at 7 days, we would like to proceed with finalizing the MI and Foundation reports for this site. (EOR Approved)



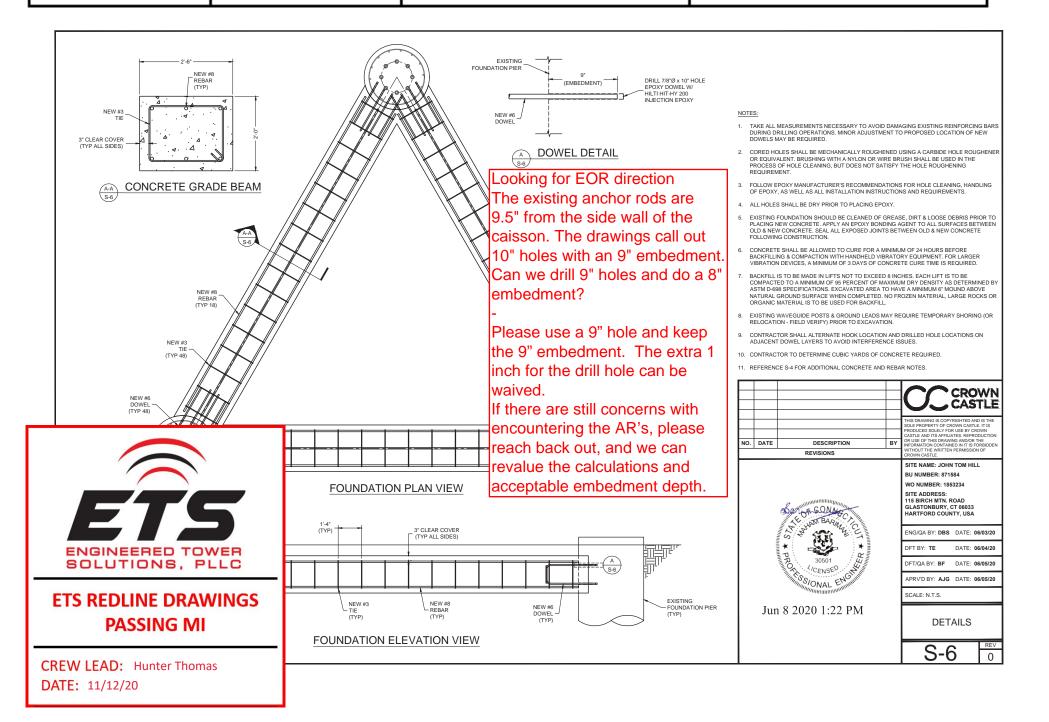
Sabre Industries 11/09/20 INSTALLED AS DESIGNED Phillip Feora





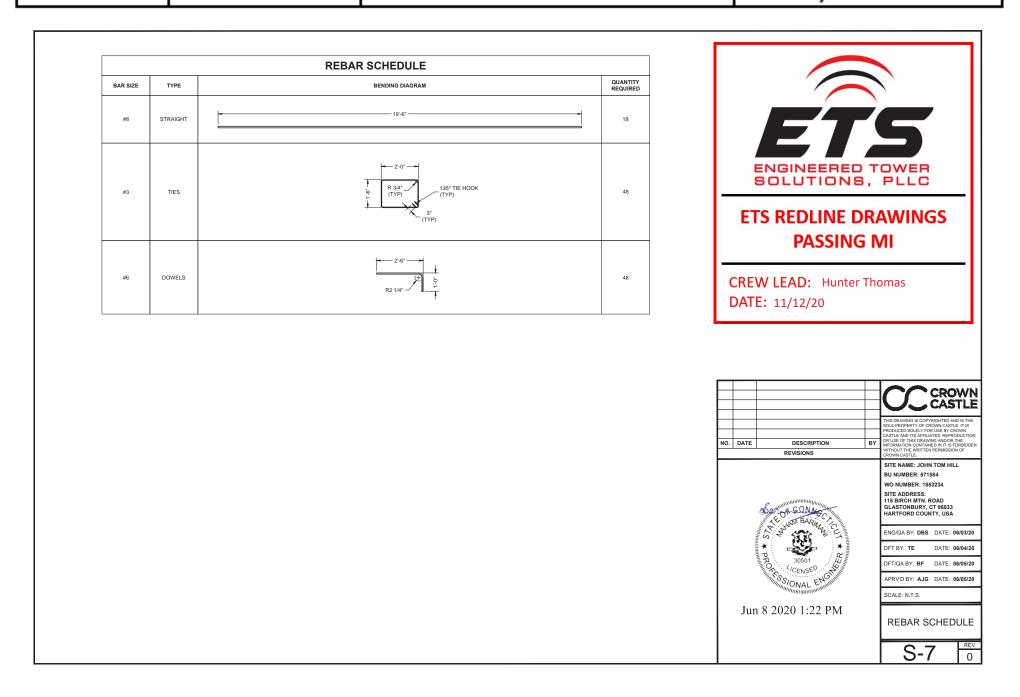
11/09/20 INSTALLED PER EOR APPROVED CHANGES

Phillip Seora





Sabre Industries 11/09/20 INSTALLED AS DESIGNED Phillip Feora



9.2.2 EOR RFI FORMS

	General Information												
Company:	Sabre Industries	Phone #:	936-206-1684										
Email	pfeora@sabreindustries.com	GC Project #:	469504										
BU #:	871584	Crown POC:	Dan Vadney										
Site Name:	John Tom Hill, CT	EOR:	Crown Castle										
WO:	1853234	EOR Project #:											

Instructions

General Contractor(GC) to Complete Engineering Issue Section

RFIs shall be submitted to the EOR prior to deviating from the original design drawings. This includes changes required based on the pre-fabriction mapping. Changes required based on the mapping shall be documented in the EOR RFI Form and submitted to the EOR alongside shop drawings.

RFIs shall be submitted for configuration and material changes. Approved changes shall be documented on the GC As-builts and shall require Crown approval if changes impact structural capacity, climbing facilities, appurtenances, or future maintenance of the tower. See CED-SOW-10007 for further guidance.

Issue Type Dropdown Menu - select the reason for the question from the drop down

• **Drawing Review Waiver** – Requesting a waiver of the shop drawing review prior to the start of construction.

• **Drawing Approval/No Deviation** – For shop drawing review when the drawings do not deviate from the original design drawings.

• **Drawing Approval/Deviation** – For shop drawing review when the drawings deviates from the original design drawing. The drawings should highlight any and all deviations from the original drawings. In addition, in the Engineering Issue box a description of the changes should be given with a reason for the deviation.

• **Clarification** – If a further explanation of the design is needed to properly fabricate or install the modification as intended.

• **Change Request** – If seeking approval for a deviation from the design documents. This should be used for changes that are outside of the shop drawing review process.

• **Direction** – If a course of action is needed from the EOR to proceed with the installation of the modifications as designed.

• **Interference**/**Field Issue** – If there is a fit up issue with the modification as designed due to a field condition. This should be used for field issues outside of the shop drawing review process.

• Other – All other requests.

Attachments – When sketches, photos, and/or drawings are attached select "Yes" in the drop down.

Engineering Issue Box– This space should contain a detailed explanation of the question along with any other information that the EOR might need to completely answer the inquiry. As part of this description, please provide any information regarding contributing factors and possible resolutions based on your capabilities in the field and general means and methods.

Engineer of Record(EOR) to Complete Resolution Section

Resolution Box – This space shall contain the resolution from the EOR or approval of the option provided by the contractor.

Drawing Change Needed – If this is marked 'Yes' then a drawing revision is required based upon the resolution.

Crown Approval – If this is marked 'Needed' then Crown must be contacted for approval of the resolution.

Sketch/Drawing Attached – If this is marked 'Yes' then there is an illustration attached as part of the resolution.

ESP # – Associated ESP # should be included, if applicable.

Resolved By – The first and last name of the Engineer that approved the resolution should be entered with the date.

Notes: This RFI form is for the purpose of addressing technical and construction related questions and issues. Final work authorization shall be approved by the Crown POC prior to proceeding with any work that deviates from the original design, scope, price and/or schedule. This form is not an authorization of a change order.

9.2.2.1 CROWN APPROVAL

Jenifer Head

From:	Barimani, Maham < Maham.Barimani@crowncastle.com >
Sent:	Tuesday, November 17, 2020 9:22 AM
То:	Jenifer Head; EORapproval
Cc:	Vadney, Dan; Phillip Feora; Ty White; Hunter Thomas
Subject:	RE: BU#871584 - John Tom Hill - Concrete Break 7-Day

Hi Jennifer,

The results are acceptable.

Thanks, Maham

MAHAM BARIMANI P.E., P.ENG. Sr. Project Engineer T: (724) 416-2638

CROWN CASTLE 2000 Corporate Drive, Canonsburg, PA 15317 CrownCastle.com

From: Jenifer Head <Jenifer.Head@ets-pllc.com>

Sent: Friday, November 13, 2020 3:39 PM

To: EORapproval <EOR.Approval@crowncastle.com>; Barimani, Maham <Maham.Barimani@crowncastle.com>
 Cc: Vadney, Dan <Dan.Vadney@crowncastle.com>; Phillip Feora <pfeora@sabreindustries.com>; Ty White <Ty.White@ets-pllc.com>; Hunter Thomas <Hunter.Thomas@ets-pllc.com>
 Subject: BU#871584 - John Tom Hill - Concrete Break 7-Day

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

EOR,

Please review the attached 7-day break results for the abovementioned site. If acceptable with 95% of design strength at 7 days, we would like to proceed with finalizing the MI and Foundation reports for this site.

Thank you!



Jenifer Head MI Project Manager – Inspections Division Engineered Tower Solutions, PLLC 3227 Wellington Court | Raleigh, NC 27615 Mobile: (919) 819-2523 | Office: (919) 782-2710 Email: Jenifer.Head@ets-pllc.com

Supporting the development and maintenance of wireless infrastructure, enabling the future of communication

CONCRETE COMPRESSIVE STRENGTH TEST REPORT

 Report Number:
 J2201160.0001A

 Service Date:
 11/06/20

 Report Date:
 11/13/20

 Revision 1 - 7-day results

 Task:



Client

Engineered Tower Solutions, PLLC Attn: Tooie Hales 3227 Wellington Court Raleigh, NC 27615

Material Information

Specified Strength: 4,500 psi @ 28 days

 Mix ID:
 1C45343A

 Supplier:
 F&F Concrete Corp

 Batch Time:
 1344
 Plant:
 Plantsville, CT

 Truck No.:
 126
 Ticket No.:
 404049

Field Test Data

Test	Result	Specification
Slump (in):	4	3 - 5
Air Content (%):	5.9	4.5 - 7.5
Concrete Temp. (F):	80	
Ambient Temp. (F):	69	
Plastic Unit Wt. (pcf):		
Yield (Cu. Yds.):		

Sample Information			
Sample Date:	11/06/20	Sample Time:	1448
Sampled By:	Jourdan Co	rilla	
Weather Conditions:	Clear		
Accumulative Yards:	4/7	Batch Size (cy):	7
Placement Method:	Direct Disc	harge	
Water Added Before (gal):			
Water Added After (gal):			
Sample Location:	Center of V	Vest side of footings	(refer to
	field sketch	l)	
Placement Location:	Footings co	onnected to existing	
	foundation	piers	

Aga at Marimum Compressive

Crown Castle John Tom Hill Tower Modifications

Laboratory Test Data

	,, ,						Age at	Maximum	Compressive		
Set	Specimen	Avg Diam.	Area	Date	Weight	Date	Test	Load	Strength	Fracture	Tested
No.	ID	(in)	(sq in)	Received	(lbs)	Tested	(days)	(lbs)	(psi)	Туре	By
1	А	4.01	12.63	11/10/20	8.62	11/13/20	7	53,810	4,260	1	MEG
1	В	4.00	12.57	11/10/20	8.69	12/04/20	28				
1	С	4.00	12.57	11/10/20	8.65	12/04/20	28				
1	D	4.00	12.57	11/10/20	8.65	12/04/20	28				
1	Е	4.00	12.57	11/10/20	8.67	01/01/21	56				
Initia	Cure: Out	tside Plastic L	ids	Final	Cure: Mois	st Room					

Project

115 Birch Mountain Road

Project Number: J2201160

Glastonbury, CT 06033

Comments: Not tested for plastic unit weight.

Samples Made By: Terracon

Services: Obtain and test in accordance with ASTM Standards samples of fresh concrete at placement locations. Initial curing temperatures were not recorded unless indicated above. JLD=Jamie Duff, MEG=Mary Gotlibowski for technician initials. Terracon Rep.: Jourdan Corilla

Reported To: Herbert Tooie Hales with ETS

Contractor: Cod/Trac Solutions

Report Distribution:

(1) Engineered Tower Solutions, PLLC, Tooie Hales **Reviewed By:**

James Flynn Department Manager - Material Services

Test Methods: ASTM C 31, ASTM C39, ASTM C138, ASTM C143, ASTM C172, ASTM C231, ASTM C1064, ASTM C1231

The tests were performed in general accordance with applicable ASTM, AASHTO, or DOT test methods. This report is exclusively for the use of the client indicated above and shall not be reproduced except in full without the written consent of our company. Test results transmitted herein are only applicable to the actual samples tested at the location(s) referenced and are not necessarily indicative of the properties of other apparently similar or identical materials.

9.2.3 PUNCH LIST DOCUMENTATION

	Punc	hlist BU # 87	71584 - John	Tom Hill		Status:		Complete			
		oject Contac			Punchlist Issuance #	Date	Visit				
io	MI Vendor		d Tower Solu		1	11/12/2020	OnSite	Structural Impact To Capacity			
nat	MI On-site inspector		Hunter Thoma	as				No			
L.	MI WO #		1892647					# of Punchlist Items			
Ē	General Contractor		Sabre					0			
ect	Crown POC		Dan Vadney								
Project Information	EOR BU		Crown Castle	9							
_ ₽_	Site Name		871584 John Tom Hi	0							
_	Site Name		John Tohn Hi								
				Zei	ro Punchlist Items						
	NonConform (Shall B	ance Impact e Provided by			New Overall Stru	cture Capacity	Rating :	N/A			
					omplete / Documentation	-					
	MI Checklist Docum	ents	Required	Submitted	Requirement Waived PRE-CONSTRUCTION	Date Compli	ance Verified	Status			
	EOR Approved Shop D	rawings	N/A	N/A	N/A		-	N/A			
	Fabrication Inspect		N/A	N/A	N/A		-	N/A			
	Fabricator Certified Weld		N/A	N/A	N/A		-	N/A			
	Material Test Report		Required	11/9/2020	N/A	11/12	2/2020	Complete			
	Fabricator NDE Re		N/A	N/A	N/A		-	N/A			
	NDE Insp. Report of Monopo	le Base Plate	N/A	N/A	N/A		-	N/A			
	Packing Slips		Required	11/9/2020	N/A	11/12	2/2020	Complete			
	Additional Pre-Construction	Inspections	N/A	N/A	N/A		-	N/A			
nts	Pre-Construction Documen	t Comments									
Checklist Documents					CONSTRUCTION						
C.	Foundation Inspect	ions	Required	11/9/2020	N/A	11/12	2/2020	Complete			
å	Post-Installed Anchor Rod	Verification	N/A	N/A	N/A		-	N/A			
ist	Base Plate Grout Verif	ication	N/A	N/A	N/A		-	N/A			
- X	Contractor's Certified Welc	Inspection	N/A	N/A	N/A		-	N/A			
he	On-Site Cold Galvanizing	Verification	N/A	N/A	N/A		-	N/A			
W	Tension Twist and Plum		N/A	N/A	N/A		-	N/A			
2	GC As-Built Drawi		Required	11/9/2020	N/A	11/12	2/2020	Complete			
	Additional Construction In	nspections	N/A	N/A	N/A		-	N/A			
	Construction Document (Comments									
					POST-CONSTRUCTION						
	Construction Compliance	Verification	Required	11/9/2020	N/A	11/12	2/2020	Complete			
	Post-Installed Anchor Rod Pu	II-Out Testing	N/A	N/A	N/A		-	N/A			
	Additional Post-Construction	n Inspections	N/A	N/A	N/A		-	N/A			
	Post-Construction Documer	nt Comments									
	MI Checklist Comr	nents									
0		MI Vendor					Final C	Crown Approval			
	Nonconform	nance - Issue I	Description		Crown			n Approval By			
	Noncomorn	100 100ut L	2000 puon		Crown Approves -						
	Low gravel around t	ower and thro	ughout comp	ound	Existing Condition			an Vadney			
								MI Vendor			
	Section/Height/Elev	Panel	Leg	Face/Flat	EOR	Status of	Correction	Type of Verification			
	0' 0"	n/a	n/a	n/a		Correction	Not Required	EOR/Crown Approved			
- #	Nov 12, 2020 10 1917 Comp	01:07 AM	The second	5 Birah Matoniain Nood							
JCe	Control Control		1	Clastonbury							
mar			A second	anno.	N/A						
Nonconformance		100 m 100	E.F.	-101	Capacity Impact As Is						
con		-	a har we have	and the second	N/A						
lo	State of the state	1	Pres office	ALP 2 SP							
-			State State	States of the second	EOR Feedback By						
			百姓封法	ALC OF							
	the family and the		- ALLER	PAR A							
	1 5 ×		2	A CAL							
			の意味を、私事業等なな法律								
	MI Comments:		Dirt and geofabric exposed throughout compound								
	EOR Comments:				Enter Comments						
	Crown Comments:				Entor	Comments					
					Enter C	Comments					

CONSTRUCTION DOCUMENTATION

9.3.5 MATERIAL TEST REPORTS (MTR)

	er Stee								SO-000	0038	134	RELEA 000	se number 01		REQ	. DELIVERY	DATE	PAGE 1 of	1
200 Cinc	W North E innati, OH	lend Rd 45216-			JSTOMER			·			·			ĴYH	X				
1 1101	Phone: (513) 821-6400 FAX: (513) 693-4271										s LL	С						by DB	
	Rebar, Grade 61560, Black JOHN TOM HILL								G ID			o FA							
Itm	Itm Qty Size Length Mark Shape Lbs A								C	Ι)	Е	F/R	G	Н	J	K	0	BC
***	MILL (CERTS	REQUIRED	***															·•

1	18	8	19-06	8 STRT		937									SS
	18.					937.									
2	48	6	3-06	6 DOWELS	17	252		1-00	2-06						B204
	48.					252.									
3	48	3	7-08	3 TIE	T1	138	0-04	*2-00*	*1-06*	*2-00*	*1-06*	0-04			B205
	48.					138.									

Total Weight: 1,327 Lbs

Longest Length: 19-06

CUSTOMER NOTE: TO OBTAIN ALLOWANCE FOR SHORTAGE OR DAMAGED MATERIAL, CUSTOMER MUST ADVISE SHIPPER UPON RECEIPT OF MATERIAL. CUSTOMER HAS NO PERMISSION TO REFABRICATE MATERIAL RESULTING IN A BACKCHARGE TO SHIPPER WITHOUT WRITTEN CONSENT OF SHIPPER.

WEIGHT SUMMARY STRAIGHT LIGHT BENDING TOTAL HEAVY BENDING SIZE ITEMS PIECES LBS ITEMS PIECES LBS ITEMS PIECES PIECES LBS ITEMS LBS Rebar, Grade 61560, Black 120 120

3	1	40	130	0	0	0	I	40	130	0	0	0	
6	1	48	252	0	0	0	0	0	0	1	48	252	
8	1	18	937	1	18	937	0	0	0	0	0	0	
	3	114	1,327	1	18	937	1	48	138	1	48	252	

Total Weight: 1,327 Lbs

Longest Length: 19-06

9.3.6 PACKING SLIPS

Byer Steel Rebar		SO NUMBER SO-00000381;	RELEASE NUMBER	REQ. DELIVERY DATE	PAGE 1C					
200 W North Bend Rd Cincinnati, OH 45216- Phone: (513) 821-6400 FAX: (513) 693-4271					JYHX					
		Trac Solutions	DB							
Rebar, Grade 61560, Black JOHN TOM HILL	DRAV		DO FAB							
COMMENT PAGE										

9.3.7 FOUNDATION INSPECTIONS

Date: November 16, 2020 Engineered Tower Solutions, PLLC 3227 Wellington Court Raleigh, NC 27615 Office: (919) 782-2710



Foundation Modification Report

Crown Castle Site Information

Crown POC: Dan Vadney 3 Corporate Park Drive, Suite 101 Clifton Park, NY 12065 BU Number: 871584 Site Name: John Tom Hill Site Address: 115 Birch Mtn. Road, Glastonbury, Connecticut 06033, Hartford County, USA

Latitude 41° 42′ 32.24″, Longitude -72° 28′ 24.41″ 200 Foot – Self Support Tower

Engineered Tower Solutions, PLLC. is pleased to submit this **"Foundation Modification Report"** to Crown Castle for the modification/reinforcement to the subject structure. This Foundation Modification Inspection was performed in accordance with Crown Castle CED-SOW-10144 New or Modified Foundation Installation Inspection SOW, Contract Documents, and Crown Castle Purchase Order number 1892647.

The purpose of this inspection is to confirm that the foundation modification, configuration, and workmanship are in accordance with the contract document(s) listed below. The inspection is not a review of the adequacy or effectiveness of the modification/reinforcement solution.

Modification Design Information:

SDD Vendor: Crown Castle SDD Date: June 8, 2020 Vendor Job Number: 1853234 Name of EOR: Maham Barimani, PE Source of SDD: 9122283

General Inspection Information:

Company: Engineered Tower Solutions, PLLC Contact: Herbert Hales, P.E. Dates on site: 11/5/2020 - 11/6/2020 General Contractor (GC): Sabre GC Contact: Phillip Feora GC Dates on Site: 10/28/20 - 11/10/20

Based on our inspection, Engineered Tower Solutions, PLLC. determines this project:

☑ PASSING FOUNDATION MODIFICATION

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

We at Engineered Tower Solutions, PLLC. appreciate the opportunity of providing our continuing professional services to you and Crown Castle. If you have any questions or need further assistance on this or any other projects please contact us.

Respectfully submitted,

Frederic Bost, PE President Engineered Tower Solutions, PLLC

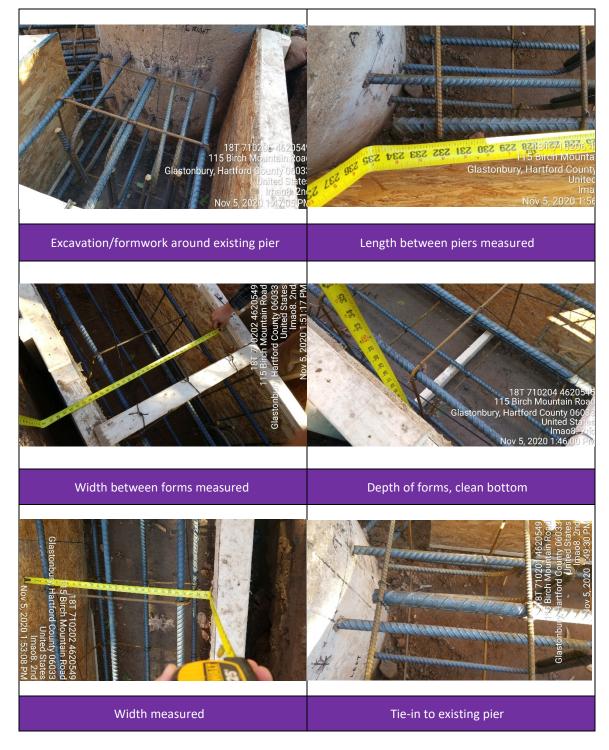


Summary of Findings:

The foundation inspections were performed by Andrew Carlson, E.I. on 11/5 and 11/6 of 2020. Tooie Hales, P.E. provided oversight and performed the onsite rebar inspection and concrete sampling. All deviations were reported and approved by the EOR and reflected in the report.

PLEASE SEE THE FOLLOWING PAGES FOR SUPPORTING DOCUMENTATION (IF ANY)

Sect	tion 2.0:	Excavation and Soil Summary	
y:		Was Excavation to the proper depth and size?	🛛 Yes 🗌 No 🗌 N/A
immar	Wil	I fill material be needed? (stone or engineered fill):	🗌 Yes 🖾 No 🗌 N/A
tion Su	Is the	foundation bottom free from standing water or mud?	🛛 Yes 🗌 No 🗌 N/A
Foundation Excavation Summary:	ls	s the foundation bottom free from foreign debris?	🛛 Yes 🗌 No 🗌 N/A
lation		Were deviations, if any reported to the EOR?	🗌 Yes 🔀 No 🗌 N/A
Found			□ Yes □ No □ N/A
		Was water seepage encountered on site?	🗌 Yes 🖾 No 🗌 N/A
ion:	W	/ere there any side wall cave ins during the pour?	🗌 Yes 🔀 No 🗌 N/A
ormat	lf ap	plicable, was the modified proctor met for fill soils?	🗌 Yes 🗌 No 🕅 N/A
Soils Information:	Were all no	otes on compaction followed, if not was the EOR notified?	🗌 Yes 🗌 No 🖾 N/A
S		pearing capacity verified prior to concrete placement? (probe 00 psf or under, penetrometer – 2000 psf and over):	🗌 Yes 🗌 No 🖾 N/A
Notes:			
No			
		E THE FOLLOWING PAGES FOR SUPPORTING DOCUMEN	
	FLEAJE JE		



Sect	ion 3.0:	Reinforcing Steel Information							
		Was all rebar used of the proper size?	🛛 Yes 🗌 No 🗌 N/A						
		Was all rebar used of the proper grade?	🛛 Yes 🗌 No 🗌 N/A						
	Were al	bars properly spaced, and if not were all deviations corrected or reported to the EOR?	🛛 Yes 🗌 No 🗌 N/A						
:uo		What doweling epoxy, if any, was used?	Hilti 200-A						
ormati	Was	the doweling epoxy within it's expiration date?	🛛 Yes 🗌 No 🗌 N/A						
Reinforcing Steel Information:	Was t	he entire doweling process able to be witnessed?	🗌 Yes 🖾 No 🗌 N/A						
cing St	If existing	rebar was encountered when doweling, were holes reported to the EOR?	🛛 Yes 🗌 No 🗌 N/A						
Reinfor		t bonding agent was used for the interface of the ng foundation and new foundation, if applicable?	SIKA Pro Select						
_		Are all laps of the proper length?	🛛 Yes 🗌 No 🗌 N/A						
		Were all bars properly tied?	🛛 Yes 🗌 No 🗌 N/A						
		90 degree hooks on cross ties	🛛 Yes 🗌 No 🗌 N/A						
Notes:	1. EOR approved dowel spacing to avoid existing rebar								
Not	2. EOR approved 9.5" drilled hole/imbedment where anchors/rebar encountered								
	PLEASE SE	E THE FOLLOWING PAGES FOR SUPPORTING DOCUMEN	TATION (IF ANY)						

General Information										
Company:	Sabre Industries	Phone #:	936-206-1684							
Email	pfeora@sabreindustries.com	GC Project #:	469504							
BU #:	871584	Crown POC:	Dan Vadney							
Site Name:	John Tom Hill, CT	EOR:	Crown Castle							
WO:	1853234	EOR Project #:								

Instructions

General Contractor(GC) to Complete Engineering Issue Section

RFIs shall be submitted to the EOR prior to deviating from the original design drawings. This includes changes required based on the pre-fabriction mapping. Changes required based on the mapping shall be documented in the EOR RFI Form and submitted to the EOR alongside shop drawings.

RFIs shall be submitted for configuration and material changes. Approved changes shall be documented on the GC As-builts and shall require Crown approval if changes impact structural capacity, climbing facilities, appurtenances, or future maintenance of the tower. See CED-SOW-10007 for further guidance.

Issue Type Dropdown Menu - select the reason for the question from the drop down

• **Drawing Review Waiver** – Requesting a waiver of the shop drawing review prior to the start of construction.

• **Drawing Approval/No Deviation** – For shop drawing review when the drawings do not deviate from the original design drawings.

• **Drawing Approval/Deviation** – For shop drawing review when the drawings deviates from the original design drawing. The drawings should highlight any and all deviations from the original drawings. In addition, in the Engineering Issue box a description of the changes should be given with a reason for the deviation.

• **Clarification** – If a further explanation of the design is needed to properly fabricate or install the modification as intended.

• **Change Request** – If seeking approval for a deviation from the design documents. This should be used for changes that are outside of the shop drawing review process.

• **Direction** – If a course of action is needed from the EOR to proceed with the installation of the modifications as designed.

• **Interference**/**Field Issue** – If there is a fit up issue with the modification as designed due to a field condition. This should be used for field issues outside of the shop drawing review process.

• Other – All other requests.

Attachments – When sketches, photos, and/or drawings are attached select "Yes" in the drop down.

Engineering Issue Box– This space should contain a detailed explanation of the question along with any other information that the EOR might need to completely answer the inquiry. As part of this description, please provide any information regarding contributing factors and possible resolutions based on your capabilities in the field and general means and methods.

Engineer of Record(EOR) to Complete Resolution Section

Resolution Box – This space shall contain the resolution from the EOR or approval of the option provided by the contractor.

Drawing Change Needed – If this is marked 'Yes' then a drawing revision is required based upon the resolution.

Crown Approval – If this is marked 'Needed' then Crown must be contacted for approval of the resolution.

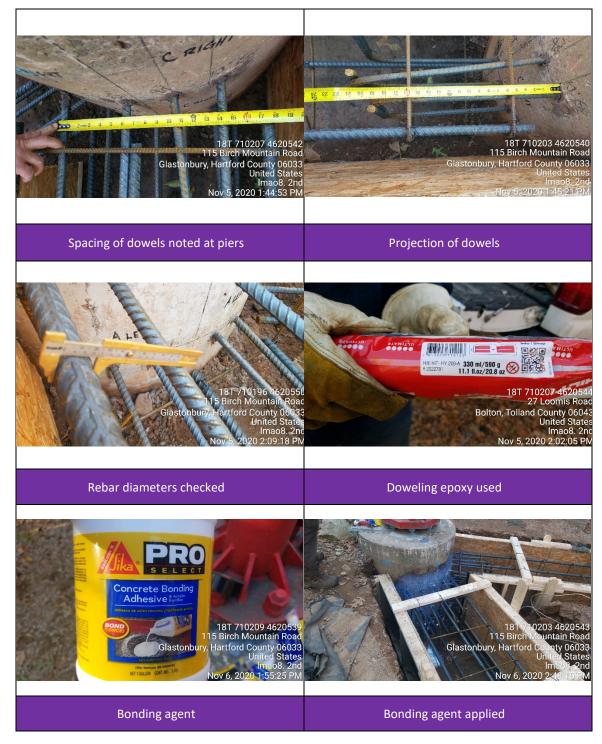
Sketch/Drawing Attached – If this is marked 'Yes' then there is an illustration attached as part of the resolution.

ESP # – Associated ESP # should be included, if applicable.

Resolved By – The first and last name of the Engineer that approved the resolution should be entered with the date.

Notes: This RFI form is for the purpose of addressing technical and construction related questions and issues. Final work authorization shall be approved by the Crown POC prior to proceeding with any work that deviates from the original design, scope, price and/or schedule. This form is not an authorization of a change order.

		Engineer	ing Issue	
Issue Type:	Other		Attachments:	No
Looking for EOF	R direction			
The existing and holes with an 9"				on. The drawings call out 10" embedment?
Submitted by:			Date:	
		Resol		
Drawing Change:		No	Crown Approval	Not Needed
Sketch/Drawing A	ttached:	No	ESP #:	5648981
waived. If there are still	concerns with e		AR's, please rea	inch for the drill hole can be
Resolved By:	Drew Stephens	3	Date:	10/27/20



Byer Steel Rebar		SO NUMBER SO-00000381;	RELEASE NUMBER	REQ. DELIVERY DATE	PAGE 1C					
200 W North Bend Rd Cincinnati, OH 45216- Phone: (513) 821-6400 FAX: (513) 693-4271					JYHX					
		Trac Solutions	DB							
Rebar, Grade 61560, Black JOHN TOM HILL	DRAV		DO FAB							
COMMENT PAGE										

Bye	Byer Steel Rebar f/k/a Gastrich Rebar LLC 200 W North Bend Rd Cincinnati, OH 45216- Phone: (513) 821-6400 FAX: (513) 693-4271										SO-0000038134 RELEASE NUMBER REQ. DELIVERY DATE								PAGE 1 of	1
200 V Cincir																			ĴYH	X
										CUSTOMER Trac Solutions LLC								BY		
																	DB			
	MATERIAL TYPE REFERENCE DRAV Rebar, Grade 61560, Black JOHN TOM HILL DRAV							DRAW	'ING ID			00 FA								
Itm	Qty	Size	Length	Ν	Mark	Shape	Lbs	A]	B C D E F/R G H J K					0	BC				
***]	*** MILL CERTS REQUIRED ***																			

1	18	8	19-06	8 STRT		937										SS
·	18.				•	937.		•				•	•		•	
2	48	6	3-06	6 DOWELS	17	252		1-00	2-06							B204
	48.					252.										
3	48	3	7-08	3 TIE	T1	138	0-04	*2-00*	*1-06*	*2-00*	*1-06*	0-04				B205
	48.			•		138.								•		

Total Weight: 1,327 Lbs

Longest Length: 19-06

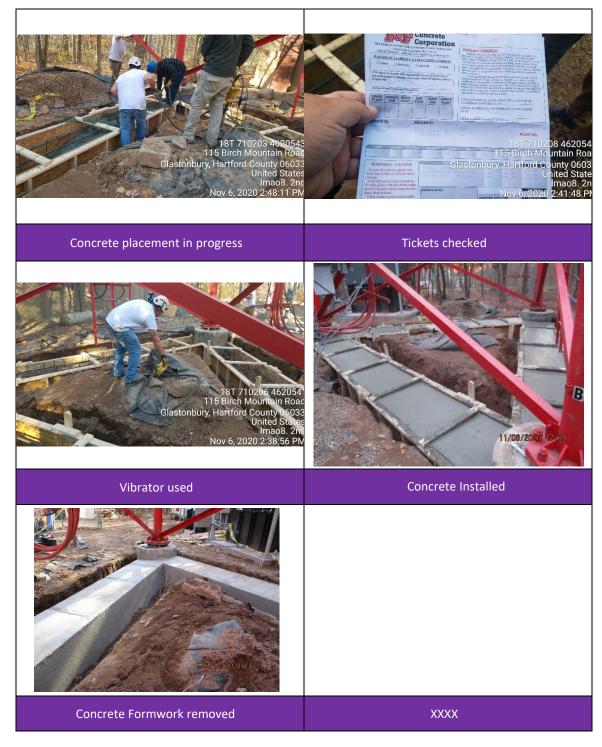
WEIGHT SUMMARY

		TC	TAL		ST	RAIGHT		LIGHT	BENDIN	IG	HEAVY	' BENDI	NG
SIZE ITEMS PIECES LBS ITEMS PIECES LBS ITEMS PIECES LBS ITEMS PIECES LBS													
Rebar, Grade 61560, Black													
3		1	48	138	0	0	0	1	48	138	0	0	0
6		1	48	252	0	0	0	0	0	0	1	48	252
8		1	18	937	1	18	937	0	0	0	0	0	0
		3	114	1,327	1	18	937	1	48	138	1	48	252

Total Weight: 1,327 Lbs

Longest Length: 19-06

Sect	tion 4.0:	Concrete Placement	
	Did the concre	ete delivered to site meet the minimum compressive strength of the design?	🛛 Yes 🗌 No 🗌 N/A
		If air entrainment was required, was it ordered?	🛛 Yes 🗌 No 🗌 N/A
		Was the concrete vibrated?	🛛 Yes 🗌 No 🗌 N/A
ation	Was the c	oncrete placed as close to the final destination as possible?	🛛 Yes 🗌 No 🗌 N/A
nform		Was the concrete hold time within allowable?	🛛 Yes 🗌 No 🗌 N/A
Concrete Placement Information		Was the slump within allowable?	🛛 Yes 🗌 No 🗌 N/A
e Place	Did th	ne concrete meet the required strength after testing?	🗌 Yes 🗌 No 🗌 N/A
oncrete		Was a trimmie pipe used, if needed?	🗌 Yes 🗌 No 🕅 N/A
3		Was formwork installed or verified?	🛛 Yes 🗌 No 🗌 N/A
	What met	hod of placement was used (Truck, pump, tremie, buggy)?	Truck
	Was the slab	insulated after the pour? (if exposed to freeze/thaw cycles):	🗌 Yes 🗌 No 🖾 N/A
Notes:			
Not			
	PLEASE SE	E THE FOLLOWING PAGES FOR SUPPORTING DOCUMEN	TATION (IF ANY)



F. Deoffrer Bost

11/17

CONCRETE COMPRESSIVE STRENGTH TEST REPORT

 Report Number:
 J2201160.0001A

 Service Date:
 11/06/20

 Report Date:
 11/13/20

 Revision 1 - 7-day results

 Task:



Client

Engineered Tower Solutions, PLLC Attn: Tooie Hales 3227 Wellington Court Raleigh, NC 27615

Material Information

Specified Strength: 4,500 psi @ 28 days

 Mix ID:
 1C45343A

 Supplier:
 F&F Concrete Corp

 Batch Time:
 1344
 Plant:
 Plantsville, CT

 Truck No.:
 126
 Ticket No.:
 404049

Field Test Data

Test	Result	Specification
Slump (in):	4	3 - 5
Air Content (%):	5.9	4.5 - 7.5
Concrete Temp. (F):	80	
Ambient Temp. (F):	69	
Plastic Unit Wt. (pcf):		
Yield (Cu. Yds.):		

Sample Information			
Sample Date:	11/06/20	Sample Time:	1448
Sampled By:	Jourdan Co	orilla	
Weather Conditions:	Clear		
Accumulative Yards:	4/7	Batch Size (cy):	7
Placement Method:	Direct Disc	harge	
Water Added Before (gal):		-	
Water Added After (gal):			
Sample Location:	Center of V	Vest side of footings	(refer to
	field sketch	ı)	
Placement Location:	Footings co	onnected to existing	
	foundation	piers	

Ago of Marimum Compressive

Crown Castle John Tom Hill Tower Modifications

Laboratory Test Data

							Age at	Maximum	Compressive		
Set	Specimen	Avg Diam.	Area	Date	Weight	Date	Test	Load	Strength	Fracture	Tested
No.	ID	(in)	(sq in)	Received	(lbs)	Tested	(days)	(lbs)	(psi)	Туре	By
1	А	4.01	12.63	11/10/20	8.62	11/13/20	7	53,810	4,260	1	MEG
1	В	4.00	12.57	11/10/20	8.69	12/04/20	28				
1	С	4.00	12.57	11/10/20	8.65	12/04/20	28				
1	D	4.00	12.57	11/10/20	8.65	12/04/20	28				
1	Е	4.00	12.57	11/10/20	8.67	01/01/21	56				
Initia	l Cure: Ou	tside Plastic L	ids	Final	Cure: Mois	st Room					

Project

115 Birch Mountain Road

Project Number: J2201160

Glastonbury, CT 06033

Comments: Not tested for plastic unit weight.

Samples Made By: Terracon

Services: Obtain and test in accordance with ASTM Standards samples of fresh concrete at placement locations. Initial curing temperatures were not recorded unless indicated above. JLD=Jamie Duff, MEG=Mary Gotlibowski for technician initials. Terracon Rep.: Jourdan Corilla

Reported To: Herbert Tooie Hales with ETS

Contractor: Cod/Trac Solutions

Report Distribution:

(1) Engineered Tower Solutions, PLLC, Tooie Hales **Reviewed By:**

James Flynn Department Manager - Material Services

Test Methods: ASTM C 31, ASTM C39, ASTM C138, ASTM C143, ASTM C172, ASTM C231, ASTM C1064, ASTM C1231

The tests were performed in general accordance with applicable ASTM, AASHTO, or DOT test methods. This report is exclusively for the use of the client indicated above and shall not be reproduced except in full without the written consent of our company. Test results transmitted herein are only applicable to the actual samples tested at the location(s) referenced and are not necessarily indicative of the properties of other apparently similar or identical materials.

Truck	Driver	User	Disp Ti	cket Num	Ticket ID Time Cate	
123	776					
Load Si		Returned	Dty	Mix	Age Seq Load ID	
	Y 1045343A				W 1460.73	
Material	Design Oty Requi	red Batched	% Var	% Moisture	Sotual Wat	
RM3/AT RM3/BT	1550.00 16 10850.00 313.00 16 2172.20	1b 10760.07 lb 1b 2180.20 lb	-0.83% 0.46%	X		
RMEAND	882.89 16 5839.98	15 2180.20 15 15 5840.22 15	6.22%	M A. 25% M 5. 98% M	28. 52 gl	
RMSAND2 RMCEMENT	415.00 16 3253.25 658.00 16 4628.00 285.00 16 14 36. 51	1b 3020.00 lb 1b 4565.00 lb	-0.99% -0.89%	0:064 H		
RMWATER	658.00 15 4628.00 285.00 15 14 36. 51	1b 4565.00 1b 1b 1424.00 1b	-0.87%	2	172. 5 4 <u><u><u></u></u></u> 1	
RMEBS	26.20 oz 1 54.10 3.80 oz 26.52	oz 154.00 oz oz 25.09 oz	6.82%			
UNDIG-UIK						
Actual	Nus Eatores: 1 127582 15 Desig 20 in # This Water	n 0.433 Water/Deme	nt 3.395 A	Dasign 2	239.1 1 Actual 215.4 gl To Add: 22.7 gl	
Sluppi in	22 in # This Water	0.0 gl / CY	4	-		
-	<u>in</u>		- CHARTER STORE	Management and a second state of		
	Construction and the second	in a second state of the second s	maker and a second of	THE GALLY IN A PARTY OF A PARTY O		200
		and the second sec	and the second second			
Trick	Driver	User	Diso Ti	cket Num	Ticket ID Tice Det	
Trilek 126	762	User user	404049		144855 イマエムム さん / たいつみ	
	762	usen	404049		144855 イマエムム さん / たいつみ	
126 Load Si 7.000 C	762 ze Mix Code	usen	404049		144855 13:44 11/6/20 Age Seq Load ID	
12G Load Si 7.0C C Material	762 Ze Mix Code Y 1045343A Design Dty Requi	user Returned red Batched	404049 Oty * Var	Mix ≭ Moisture	144855 13:44 11/6/20 Age Seq Load ID	
12G Load Si 7.0C C Material	762 Ze Mix Code Y 1045343A Design Dty Requi	user Returned red Batched 15 10840.00 lb	404049 Gty * Var -0.09%	Mix ≭ Moisture	144855 13:44 11/6/20 Age Seq Load ID W 146017	
126 Load Si 7.00 C Material RM3/8T RM3/8T RMSAND	762 ze Mix Code Y 1045343A Design Dty Requi 1550.02 lb 10850.00 313.03 lb 2170.00 800.00 lb 5538.02	user Returned red Batched 15 10840.00 15 15 2140.00 15 15 5860.00 15	404049 Gty * Var -0.09% -1.38% 0.38%	Mix * Moisture X 4.25% M	144855 13:44 11/6/20 Age Seq Load ID W 146017 Actual Wat	
126 Load Si 7.00 C Material RM3/4T RM3/8T RMSAND RMSAND2	762 ze Mix Code Y 1045343A Design Dty Requi 1550.00 lb 10050.00 310.00 lb 2170.00 800.00 lb 5838.00 415.00 lb 3050.25	user Returned red Batched 15 10840.00 15 15 2140.00 15 15 5860.00 15	404049 Gty * Var -0.09% -1.38% 0.38%	Mix % Moisture	144855 13:44 11/6/20 Age Seq Load ID W 146017	
126 Load Si 7.00 C Material RM3/4T RM3/8T RM3AND RMSAND2 RMSAND2 RMCEMENT RMNATER	762 ze Mix Code Y 1045343A Design Dty Requi 1550.02 lb 10850.00 313.03 lb 2170.00 800.00 lb 5538.02	user Returned red Batched 15 10840.00 15 15 2140.00 15 15 5860.00 15 15 3000.00 15 15 4635.00 15	404049 Gty * Var -0.09% -1.38% 0.38% -1.65% 0.63%	Mix * Moisture X 4.25% M	144855 13:44 11/6/20 Age Seq Load ID W 146017 Actual Wat 28.63 gl 17.12 gl	
126 Load Si 7.00 C Material RM3/4T RM3/8T RMSAND2 RMSAND2 RMCEMENT RMMATER RM686	762 Ze Mix Code Y 1045343A Design Dty Requi 1550.00 lb 10850.00 313.00 lb 2170.00 800.00 lb 5538.00 415.00 lb 3052.25 658.00 lb 4606.00 285.00 lb 1436.51 26.30 oz 184.10	user Returned red Batched 15 10840.00 15 15 2140.00 15 15 5860.00 15 15 3000.00 15 15 4635.00 15 15 1428.30 15 oz 184.03 oz	4 2 4 2 4 2 4 9 Gt y * Var -0.09% -1.38% 0.38% -1.65% 0.63% -0.59% -0.05%	Mix * Moisture X 4.25% M	144855 13:44 11/6/20 Age Seq Load ID W 146017 Actual Wat 28.63 gl	
126 Load Si 7.00 C Material RM3/4T RM3/8T RM3AND RMSAND2 RMSAND2 RMCEMENT RMNATER	762 ze Mix Code Y 1045343A Design Dty Requi 1550.00 lb 10050.00 310.00 lb 2170.00 800.00 lb 5838.00 415.00 lb 3050.25 658.00 lb 4606.00 285.00 lb 1436.51	user Returned red Batched 15 10840.00 15 15 2140.00 15 15 5860.00 15 15 3000.00 15 15 4635.00 15 15 1428.30 15 oz 184.03 oz	4 2 4 2 4 2 4 9 Gt y * Var -0.09% -1.38% 0.38% -1.65% 0.63% -0.59% -0.05%	Mix * Moisture X 4.25% M	144855 13:44 11/6/20 Age Seq Load ID W 146017 Actual Wat 28.63 gl 17.12 gl	
126 Load Si 7.000 C Material RM3/4T RM3/8T RMSAND2 RMSAND2 RMSAND2 RMCEMENT RMSAND2 RMCEMENT RMSAND2 RMSIKA_AIR Actual	762 Ze Mix Code Y 1045343A Design Dty Requi 1550.00 15 10850.00 313.00 15 2170.00 800.00 15 5538.00 415.00 15 3052.25 658.00 15 4606.00 285.00 15 1436.51 26.30 oz 184.10 3.89 oz 26.60 Nur Betches: 1	user Returned Ib 10840.00 lb lb 2140.00 lb lb 2140.00 lb lb 3000.00 lb lb 3000.00 lb lb 4635.00 lb lb 1428.30 lb oz 184.03 oz oz 25.00 oz	4 2 4 2 4 9 Gt y * Var -0.09% -1.38% 0.38% -1.65% 0.63% -0.65% -0.05% (-6.02%	Mix * Moisture A.25% M 5.00% M	144855 13:44 11/6/20 Age Seq Load ID W 146017 Actual Wat 28.63 gl 17.12 gl 171.12 gl	
126 Load Si 7.000 Material RM3/4T RM3/8T RM3AND2 RMSAND2 RMSAND2 RMSAND2 RMSEMENT RMWATER RMWATER RMSIMA_AIR Actual Load Total:	762 Ze Mix Code Y 1045343A Design Dty Requi 1550.00 15 10850.00 310.00 15 10850.00 800.00 15 2170.00 800.00 15 2538.00 415.00 15 3052.25 658.00 15 4606.00 285.00 15 1436.51 26.30 oz 184.10 3.80 oz 26.60	user Returned Ib 10840.00 lb lb 2140.00 lb lb 5860.00 lb lb 3000.00 lb lb 4635.00 lb lb 1428.00 lb oz 184.00 oz oz 25.00 oz	4 2 4 2 4 9 Gt y * Var -0.09% -1.38% 0.38% -1.65% 0.63% -0.65% -0.05% (-6.02%	Mix * Moisture A.25% M 5.00% M	144855 13:44 11/6/20 Age Seq Load ID W 146017 Actual Wat 28.63 gl 17.12 gl	

Sect	ion 5.0: Earthwork	x, Backfilling, and Compaction				
	Was t	he backfill placed in lifts?	🗌 Yes 🗌 No 🖾 N/A			
2	Were th	e lifts of the proper height?	□ Yes □ No ⊠ N/A			
matio	We	ere the lifts compacted?	🗌 Yes 🗌 No 🖾 N/A			
n Info	What was the method	d of compaction (jumping jack, plate tamp, excavator bucket):				
Ipactio	Wa	as engineering fill used?	□ Yes □ No ⊠ N/A			
nd Com	Was g	geotextile fabric required?	□ Yes □ No ⊠ N/A			
Earthwork, Backfilling, and Compaction Information:	Was the grav	el replaced to the proper depth?	□ Yes □ No ⊠ N/A			
Backfil			🗌 Yes 🗌 No 🕅 N/A			
work,			🗌 Yes 🗌 No 🕅 N/A			
Earth			🗌 Yes 🗌 No 🕅 N/A			
			🗌 Yes 🗌 No 🕅 N/A			
Notes:						
No						
	PLEASE SEE THE FOLLOWING PAGES FOR SUPPORTING DOCUMENTATION (IF ANY)					
		WING FAGES FOR SOFFORTING DOCOME				

Sect	tion 6.0:	Micropiles	
		Were micropiles installed on this project?	🗌 Yes 🗌 No 🔀 N/A
		Was a sacrificial pile used for proof loading?	🗌 Yes 🗌 No 🕅 N/A
Ë	Was p	ull test set up specifications met during proof loading?	🗌 Yes 🗌 No 🕅 N/A
ormatic	Did th	e EOR review and sign off on the proof loading results?	🗌 Yes 🗌 No 🔀 N/A
ng Info		Were micropiles drilled to the proper depth?	🗌 Yes 🗌 No 🔀 N/A
ll Testi	Was	s grout strength verified prior to mix and placement?	🗌 Yes 🗌 No 🔀 N/A
and Pu	Were two se	ts of three grout cube speciments fabricated each day of the micropile install?	🗌 Yes 🗌 No 🖾 N/A
Test, a		Were the hollow bars and couplers verified?	🗌 Yes 🗌 No 🛛 N/A
Grout		Was a grout sleeve installed?	🗌 Yes 🗌 No 🔀 N/A
cropile		Were centralizers installed on the micropiles?	🗌 Yes 🗌 No 🔀 N/A
Micropile, Micropile Grout Test, and Pull Testing Information:	Was grout v	volume recorded per hole? If so, list number of bags below:	🗌 Yes 🗌 No 🖾 N/A
Microp			🗌 Yes 🗌 No 🖾 N/A
			🗌 Yes 🗌 No 🔀 N/A
			🗌 Yes 🗌 No 🖾 N/A
Notes:			
Ñ			
	PLEASE SE	E THE FOLLOWING PAGES FOR SUPPORTING DOCUMEN	TATION (IF ANY)

Sect	ion 7.0:	Summary of Findings
Summary of Findings:	Hales. provi	tion inspections were performed by Tooie Hales, P.E. on 11/5 and 11/6 of 2020. Mr. ided oversight and performed the onsite rebar inspection and concrete sampling. All iations were reported and approved by the EOR and reflected in the report.
	PLEASE SE	E THE FOLLOWING PAGES FOR SUPPORTING DOCUMENTATION (IF ANY)

AMERICAN CONCRETE INSTITUTE

This is to certify that

HERBERT L HALES II

has demonstrated knowledge and ability by successfully completing the ACI Certification requirements and is hereby recognized as an

ACI Concrete Field Testing Technician - Grade I

Certified Date: 09/19/2018

Expires: 09/19/2023

Examiner of Record: Michelle B Richards

ACI Managing Director of Certification

The Authenticity of this certification can be verified at www. ACICertification .org/verify

INTERNATIONAL CODE COUNCIL

HERBERT HALES

The International Code Council attests that the individual named on this certificate has satisfactorily demonstrated knowledge as required by the International Code Council by successfully completing the prescribed written examination based on codes and standards then in effect, and is hereby issued this certification as:

REINFORCED CONCRETE SPECIAL INSPECTOR ASSOCIATE

Given this day of January 26, 2019

Certificate No. 9050813

William R. Rant

William R. Bryant President, Board of Directors





Dominic Sims Chief Executive Officer

INTERNATIONAL CODE COUNCIL HERBERT HALES

The International Code Council attests that the individual named on this certificate has satisfactorily demonstrated knowledge as required by the International Code Council by successfully completing the prescribed written examination based on codes and standards then in effect, and is hereby issued this certification as:

Soils Special Inspector

Given this day February 4, 2019

Certificate No. 9050813

William R. Rant

William R. Bryant President, Board of Directors





Dominic Sims Chief Executive Officer

9.3.13 CONSTRUCTION AND COLD GALVANIZING COMPLIANCE LETTER

Date: November 12, 2020 Sabre Industries 7101 Southbridge Drive Sioux City, IA 51111 712-258-6690



Construction and Galvanizing Compliance Letter

Crown Castle Site Information:

Crown POC: Dan Vadney 3 Corporate Park Drive Suite 101 Clifton Park, NY 12065 BU Number: 871584 Site Name: Jon Tom Hill Site Address: 115 Birch MTN Road Glastonbury, CT 06033

Latitude 41°42'32.24", Longitude 72°28'24.41", 200 Foot – Self Support Tower

Sabre Industries is pleased to submit this "**Construction Compliance Letter**" to Crown Castle for the modification/reinforcement to the subject structure. All construction practices, workmanship, and cold galvanizing applications were performed in accordance with CED-SOW-10007 Modification Inspection SOW. Please refer to the supporting photographs on the following page.

Modification Design Information:

SDD Vendor: Crown Castle SDD Date: 6/08/20 Vendor Job Number: 1853234 Name of EOR: Maham Barimani Source of SDD: 9052570

Contractors Information:

GC Crew Lead: Jason Burk Dates on Site: 10/28/20 – 11/10/20 Sub-Contractor Company: TRAC Welder(s) Company: NA Welder(s): NA Welder(s) CCI Number: NA Dates on Site: NA

Product Information:

Dates of Application: NA Cold Galvanizing Product: NA

We at Sabre Industries appreciate the opportunity of providing our continuing professional services to you and Crown Castle. If you have any questions or need further assistance on this or any other projects please give us a call.

Respectfully submitted,

Phillip Feora

Cold Galvanizing Supporting Photographs				
Gate Sign & Galvanizing Product	Installation	Monopole Shaft Interior		
N/A	N/A	N/A		

9.3.15 PHOTOGRAPHS





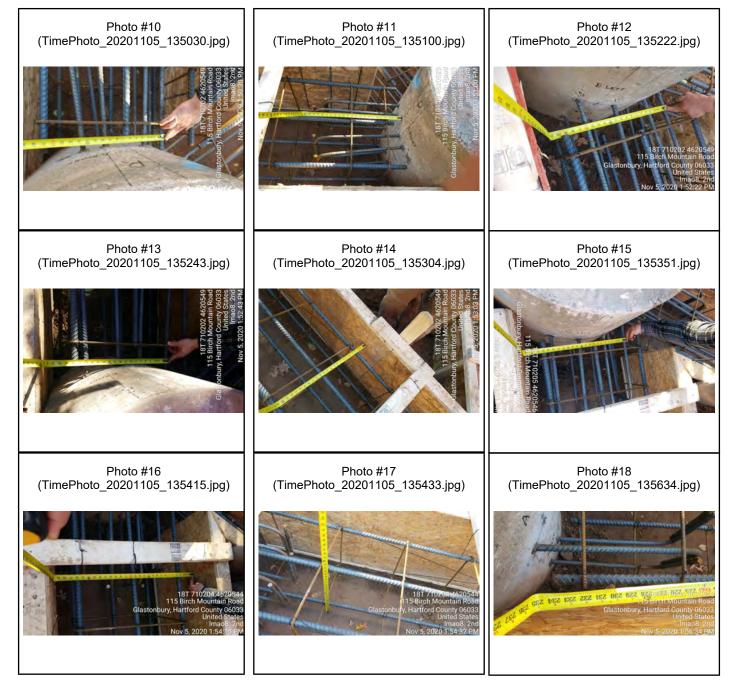


Photo #10 (John Tom Hill_024.jpg)	Photo #11 (John Tom Hill_028.jpg)	Photo #12 (John Tom Hill_041.jpg)
Photo #13 (John Tom Hill_042.jpg)	Photo #14 (John Tom Hill_049.jpg)	Photo #15 (John Tom Hill_051.jpg)
Photo #16 (John Tom Hill_056.jpg)	Photo #17 (John Tom Hill_062.jpg)	Photo #18 (John Tom Hill_063.jpg)











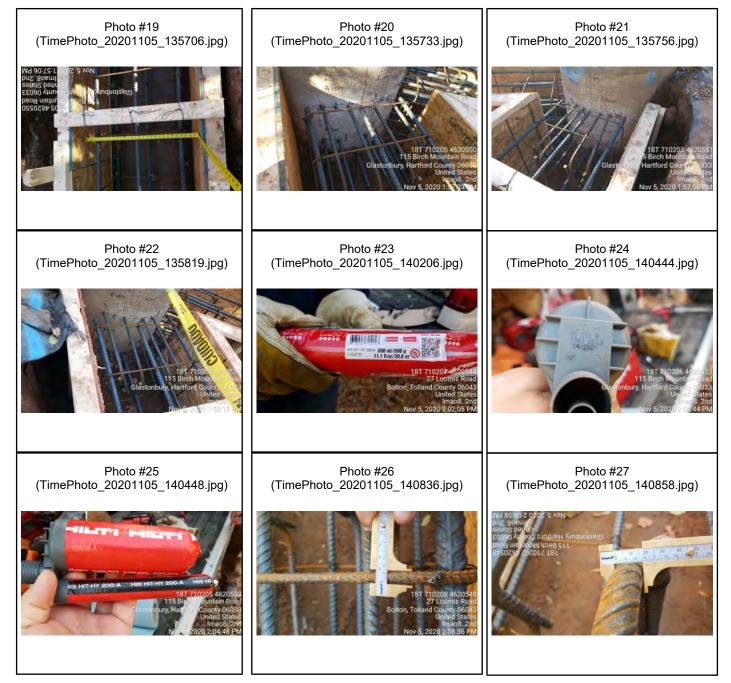












Photo #1 (IMG_1525.jpg)	Photo #2 (IMG_1526.jpg)	Photo #3 (IMG_1527.jpg)
Photo #4 (IMG_1528.jpg)	Photo #5 (IMG_1529.jpg)	Photo #6 (IMG_1531.jpg)
Photo #7 (IMG_1532.jpg)	Photo #8 (IMG_1535.jpg)	Photo #9 (IMG_1537.jpg)



Photo #10 (IMG_1538.jpg)	Photo #11 (IMG_1541.jpg)	Photo #12 (IMG_1542.jpg)
Photo #13 (IMG_1544.jpg)	Photo #14 (IMG_1547.jpg)	Photo #15 (IMG_1554.jpg)
Photo #16 (IMG_1555.jpg)	Photo #17 (IMG_1562.jpg)	Photo #18 (IMG_1565.jpg)



Photo #19 (IMG_1569.jpg)	Photo #20 (IMG_1570.jpg)	Photo #21 (IMG_1580.jpg)
Photo #22 (IMG_1582.jpg)	Photo #23 (IMG_1585.jpg)	Photo #24 (IMG_1605.jpg)
Photo #25 (IMG_1606.jpg)	Photo #26 (IMG_1625.jpg)	Photo #27 (IMG_1632.jpg)



Photo #28 (IMG_1635.jpg)	Photo #29 (IMG_1638.jpg)	Photo #30 (IMG_1643.jpg)
Photo #31 (IMG_1659.jpg)	Photo #32 (IMG_1661.jpg)	Photo #33 (IMG_1663.jpg)
Photo #34 (IMG_1667.jpg)	Photo #35 (IMG_1681.jpg)	Photo #36 (IMG_1683.jpg)



Photo #37 (IMG_1684.jpg)	Photo #38 (IMG_1688.jpg)	Photo #39 (IMG_1690.jpg)
Photo #40 (IMG_1695.jpg)	Photo #41 (IMG_1696.jpg)	Photo #42 (IMG_1698.jpg)
Photo #43 (IMG_1701.jpg)	Photo #44 (IMG_1709.jpg)	Photo #45 (IMG_1720.jpg)



