

LCC Deployment Services Inc. 2242 Old Marlton Pike, Marlton, NJ 08053 856-810-1658 (Ph) 856-810-1659 (Fax)

March 12, 2014

Melanie A. Bachman Acting Executive Director Connecticut Siting Council New Britain, CT 06051

Re: Notice of Exempt Modification- Structural modification

Dear Ms. Bachman:

Crown Castle International currently maintains 190' monopole/communication tower at 240 Kensington Ave. New Britain, CT 06037.Crown Castle International intends to add structural modifications to strengthen the present tower. Included in <u>Attachment 1</u> are specifications for the structural modification.

Please accept this letter as notification pursuant to R.C.S.A § 16-50j-73(b), for construction that constitutes an exempt modification pursuant to R.C.S.A § 16-50j-72(b)(2).In accordance with R.C.S.A § 16-50j-73, a copy of this letter is being sent to DENISE MCNAIR. A copy of this letter is being sent to, the owners of the property where the tower is located Town Of Berlin.

The planned modifications to the facility fall squarely within those activities explicitly provided for in R.C.S.A § 16-50j-72(b)(2).

- 1. The planned modifications will not result in an increase in height of the existing tower.
- 2. The proposed modifications will not involve any change to the ground mounted equipment and, therefore, will not require the extension of the site boundary.
- 3. The proposed modification will not increase noise levels at the facility by six decibels or more, or to levels that exceed state and local criteria.



LCC Deployment Services Inc. 2242 Old Martton Pike, Martton, NJ 08053 856-810-1658 (Ph) 856-810-1659 (Fax)

March 12, 2014

- 4. The operation of the modified facility will not increase the radio frequency (RF) emissions at the facility to a level at or above the Federal Communications Commission (FCC) safety standard.
- 5. The proposed modification will not cause a change or alteration in the physical or environmental characteristics of the site.
- 6. The tower and its foundation can support Crown Castle Internationals proposed modifications (see structural analysis report included in attachment 3).

For the foregoing reasons, LCC Deployment Services respectfully submits that the proposed modifications to the above –referenced telecommunications facility constitutes an exempt under R.C.S.A § 16-50j-72(b)(2).

Sincerely,

Cold A. Stackhouse

Enclosures Copy to:

Denise Mcnair,

Town of Berlin,

Robindala-Di



TOWER MODIFICATION DRAWINGS

SITE NAME: NEWINGTON_1 BU NUMBER: 826217

HARTFORD COUNTY, USA 240 KENSINGTON ROAD, BERLIN, CT 06037 SITE ADDRESS

PROJECT CONTACTS:

1. CROWN TOWER STRUCTURAL ANALYST

STEVE TUTTLE (585) 899-3445

EAST ROCHESTER, NY 14445 STEVE.TUTTLE@CROWNCASTLE.COM THE PIANO WORKS 349 WEST COMMERCIAL STREET

2. B+T GROUP PROJECT ENGINEER

1717 S BOULDER AVENUE, SUITE 300 KMAROJU@BTGRP.COM TULSA, OKLA. 74119 (918) 587-4630 KIRAN MAROJU

3. B+T GROUP ENGINEER (EOR)

CTUTTLE@BTGRP.COM CHAD E TUTTLE, P.E. 1717 S BOULDER AVENUE, SUITE 300 TULSA, OKLA. 74119 (918) 587-4630

NEWINGTON_

CODE COMPLIANCE

STANDARDS FOR STEEL ANTENNA TOWERS AND ANTENNA SUPPORTING STRUCTURES USING A FASTEST MILE WIND SUPPORTING STRUCTURES USING A FASTEST MILE WIND SPEED OF 80 MPH WITH NO ICE, 37.6 MPH WITH 1 INCH ICE THIS REINFORCEMENT DESIGN IS BASED ON THE REQUIREMENTS OF TIA/EIA-222-F STRUCTURAL THICKNESS AND 50 MPH UNDER SERVICE LOADS.

DRAWINGS INCLUDED

SHEET NUMBER	DESCRIPTION
S1	TITLE SHEET
S2	MODIFICATION INSPECTION NOTES AND CHECKLIST
S3	GENERAL NOTES, AJAX BOLT NOTES AND DETAIL
S4	TOWER ELEV., SCHEDULES & TX LINE DIST. DIAG.
S5	TOWER SECTION (0'-10.5')
S6	TOWER SECTION (20'-39.5')
S7	TOWER SECTION (40'-59.5')
S8	TOWER SECTION (60'-79.5')
S9	TOWER SECTION (80'-90.5')
S10	TOWER SECTION (100'-105.5')
S11	TOWER ELEVATION 120'
S12	FOUNDATION MODIFICATION
S13	FLAT PLATE BRIDGE STIFFENER DETAIL, SCHEDULE AND NOTES
S14	FLAT PLATE BRIDGE STIFFENER DETAIL, SCHEDULE AND NOTES
D1	DETAILS

TOWER INFORMATION

1717 S. BOULDER SUITE 300 TULSA, OK 74119 PH: (918) 587-4630 www.btgrp.com

B+T GRP

TOWER HEIGHT / TYPE: TOWER MANUFACTURER / DWG #: PIROD 190' MONOPOLE INC. / 204566-B

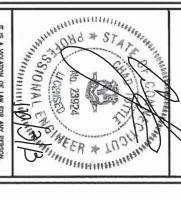
TOWER LOCATION: DATUM: (NAD 1983) LONG. 41° 37' 34.25" -72° 46' 32.1" 133 FT AMSL

STRUCTURAL DESIGN DRAWING REPORT: B+T GROUP / WO. # 656208
STRUCTURAL ANALYSIS REPORT: B+T GROUP / WO. # 603885
STRUCTURAL ANALYSIS DATE: 04/30/13 CCISITES DOCUMENT ID: 3820727

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B+T ENGINEERING,



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240 KENSINGTON ROAD, BERLIN, CT NEWINGTON_1 826217

EXISTING 190' MONOPOLE

TITLE SHEET

SHEET NUMBER:

ONTO KENSINGO RD. 1/4 MI ON RIGHT WILL BE TOWN BUILDINGS COMPLEX AND ACCESS RD. FOLLOW TO TOP OF HILL. TOWER IS BEHIND TOWN HALL AND POLICE

STATION.

FROM RT 9 TO EXIT 22. TURN RIGHT ON TO MILL ST. RT 372 FOLLOW 3/4 MI AT SET OF LIGHTS TURN LEFT

DIRECTIONS

MAP

MI INSPECTOR
THE MI INSPECTOR IS F REQUIRED TO CONTACT THE S AS SOON AS RECEIVING A PO FOR THE MI

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

THE MI INSPECTOR IS RESPONSIBLE FOR COLLECTING ALL GENERAL CONTRACTOR (GC) INSPECTION AND TEST REPORTS, REVIEWING THE DOCUMENTS FOR ADHERENCE TO THE CONTRACT DOCUMENTS, CONDUCTING THE IN-FIELD INSPECTIONS, AND SUBMITTING THE MI REPORT TO CROWN.

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B+T GRP

- GENERAL CONTRACTOR
 THE GC IS REQUIRED TO CONTACT THE MI INSPECTOR MODIFICATION INSTALLATION OR TURNKEY PROJECT TO, AS SOON AS RECEIVING A PO FOR THE AT A MINIMUM:
- REVIEW THE REQUIREMENTS OF THE MI CHECKLIST WORK WITH THE MI INSPECTOR TO DEVELOP A SCHEDULE TO CONDUCT ON-SITE MI INSPECTIONS, INCLUDING FOUNDATION INSPECTIONS
 BETTER UNDERSTAND ALL INSPECTION AND TESTING REQUIREMENTS

THE GC SHALL PERFORM AND RECORD THE TEST AND INSPECTION RESULTS IN ACCORDANCE WITH THE REQUIREMENTS OF THE MI CHECKLIST AND ENG-SOW-10007.

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

ISSUED FOR:

DESCRIPTION
ISSUED FOR CONSTRU

• IT IS SUGGESTED THAT THE GC PROVIDE A MINIMUM OF 5 BUSINESS DAYS NOTICE, PREFERABLY 10, TO THE MI INSPECTOR AS TO WHEN THE SITE WILL BE READY FOR THE MI TO BE CONDUCTED.

• THE GC AND MI INSPECTOR COORDINATE CLOSELY THROUGHOUT THE ENTIRE PROJECT.

• WHEN POSSIBLE, IT IS PREFERRED TO HAVE THE GC AND MI INSPECTOR ON—SITE SIMULTANEOUSLY FOR ANY GUY WIRE TENSIONING OR RE—TENSIONING OPERATIONS.

• IT MAY BE BENEFICIAL TO INSTALL ALL TOWER MODIFICATIONS PRIOR TO CONDUCTING THE FOUNDATION INSPECTIONS TO ALLOW FOUNDATION AND MI INSPECTION(S) TO COMMENCE WITH ONE SITE VISIT.

• WHEN POSSIBLE, IT IS PREFERRED TO HAVE THE GC AND MI INSPECTOR ON—SITE DURING THE MI TO HAVE ANY DEFICIENCIES CORRECTED DURING THE INITIAL MI. THEREFORE, THE GC MAY CHOOSE TO COORDINATE THE MI CAREFULLY TO ENSURE ALL CONSTRUCTION FACILITIES ARE AT THEIR DISPOSAL WHEN THE MI INSPECTOR IS ON SITE. AND MI INSPECTOR ON-SITE DURING THE THE INITIAL MI. THEREFORE, THE GC MAY URE ALL CONSTRUCTION FACILITIES ARE SITE.

CANCELLATION OR DELAYS IN SCHEDULED MI
IF THE GC AND MI INSPECTOR AGREE TO A DATE ON WHICH THE MI WILL BE CONDUCTED, AND
IF THE GC AND MI INSPECTOR AGREE TO A DATE ON WHICH THE MI WILL BE CONDUCTED, AND
INCLURED BY ETHER PARTY FOR ANY TIME (E.G. TRAVEL AND LODGING, COSTS OF KEEPING
EQUIPMENT ON—SITE, ETC.). IF CROWN CONTRACTS DIRECTLY FOR A THIRD PARTY MI, EXCEPTIONS
MAY BE MADE IN THE EVENT THAT THE DELAY/CANCELLATION IS CAUSED BY WEATHER OR OTHER
CONDITIONS THAT MAY COMPROMISE THE SAFETY OF THE PARTIES INVOLVED.

PROJECT ENG: PROJECT NO:

KIRAN MAROJU 87581.005.01

GLS

DRAWN BY:

CORRECTION OF FAILING MI'S
IF THE MODIFICATION INSTALLATION WOULD FAIL THE MI ("CROWN TO COORDINATE A REMEDIATION PLAN IN ONE OF ("FAILED MI"), THE GC SHALL WORK WITH F TWO WAYS:

- CORRECT FAILING ISSUES TO COMPLY WITH THE SPECIFICATIONS CONTAINED IN THE ORIGINAL CONTRACT DOCUMENTS AND COORDINATE A SUPPLEMENT MI.
 OR, WITH CROWN'S APPROVAL, THE GC MAY WORK WITH THE EOR TO RE-ANALYZE THE MODIFICATION/REINFORCEMENT USING THE AS-BUILT CONDITION

MI VERIFICATION INSPECTIONS

CROWN RESERVES THE RIGHT TO CONDUCT A MI VERIFICATION INSPECTION TO VERIFY THE ACCURACY AND COMPLETENESS OF PREVIOUSLY COMPLETED MI INSPECTION(S) ON TOWER ACCURACY AND COMPLET MODIFICATION PROJECTS.

ALL VERIFICATION INSPECTIONS SHALL BE HELD TO T IN THE CONTRACT DOCUMENTS AND IN ACCORDANCE

VERIFICATION INSPECTION MAY BE CONDUCTED BY AN INI MODIFICATION PROJECT IS COMPLETED, AS MARKED BY TO OR "PASS AS NOTED MI" REPORT FOR THE ORIGINAL PRO

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

PRE-CONSTRUCTION GENERAL SITE CONDITION PHOTOGRAPHS DURING THE REINFORCEMENT MINSPECTION

MODIFICATION CONSTRUCTION/ERECTION AND

- RAW MATERIALS PHOTOS OF ALL FOUNDATION MOI N MODIFICATIONS
- WELD PREPARATION
 BOLT INSTALLATION AND TORQUE
 FINAL INSTALLED CONDITION
 SURFACE COATING REPAIR
 ST CONSTRUCTION PHOTOGRAPHS
- POST

TO ENSURE THAT THE COMMUNICATING AND C

E REQUIREMENTS OF THE MI ARE MET, IT IS VITAL THAT THE GENERAL CONTRACTOR (GC) AND COORDINATING AS SOON AS A PO IS RECEIVED. IT IS EXPECTED THAT EACH PARTY WILL BE IF CONTACT INFORMATION IS NOT KNOWN, CONTACT YOUR CROWN POINT OF CONTACT (POC).

PROACTIVE IN REACHING

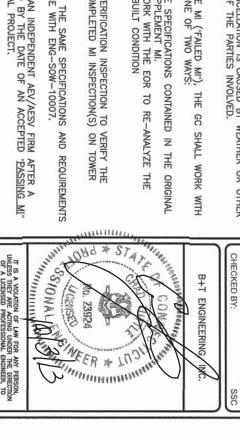
OUT TO

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PHOTOS OF ELEVATED MODIFICATIONS TAKEN FROM NADEQUATE. GROUND SHALL BE CONSIDERED

IS NOT A COMPLETE

LIST 유 REQUIRED PHOTOS, PLEASE REFER TO ENG-SOW-10007.



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NEWINGTON_1

EXISTING 190' MONOPOLE 240 KENSINGTON ROAD, BERLIN, CT

SHEET TITLE

MODIFICATION INSPECTION NOTES AND CHECKLIST

NOTES:

REQUIREMENTS ALL STRUCTURAL BOLTS SHALL BE INSTALLED AND TIGHTENED TO THE PRE-TENSIONED CONDITION . ACCORDING TO DEC. 31, 2009 31, 2009. 류

2. ALL STRUCTURAL BOLTS SHALL BE INSPECTED ACCORDING TO THE REQUIREMENTS OF THE AISC "SPECIFICATION FOR STRUCTURAL JOINTS USING HIGH-STRENGTH BOLTS", DEC. 31, 2009.

3. ALL AJAX M20 BOLTS WITH SHEAR SLEEVES SHALL BE PRE—TENSIONED AND TIGHTENED UNTIL THE DIRECT TENSION INDICATOR (DTI) WASHERS SHOW THAT THE PROPER BOLT TENSION HAS BEEN REACHED. SEE NOTES AND DETAIL BELOW FOR THE USE OF DIRECT TENSION INDICATOR (DTI) WASHERS WITH THE AJAX M20 BOLTS.

4. AJAX BOLTS INSTALLED USING DIRECT TENSION INDICATORS (DTI'S) AND HARDENED WASHERS. SHALL BE THE SQUIRTER® STYLE, MADE TO ASTM F959 LATEST REVISION; AND HARDENED WASHERS SHALL CONFORM TO ASTM HAVE A HARDNESS OF RC 38 OF HIGHER. F436

AS AN ALTERNATIVE TO USING DTI WASHERS, AJAX BOLTS MAY BE PRETENSIONED PER AISC TURN-OF-NUT METHOD

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NOTES FOR AJAX M20 'ONE-SIDE' BOLTS WITH DIRECT TENSION INDICATORS (DTI'S):

<u>DTI'S REQUIRED:</u> DTI'S SHALL BE "SELF-INDICATING" SQUIRTER®STYLE DTI'S MADE WITH SILICONE EMBEDDED IN THEM, INSPECTED PROTRUSIONS COMPRESS. SQUIRTER®DTI'S SHALL BE CALIBRATED PER MANUFACTURES'S INSTRUCTIONS PRIOR TO USE. BY MEANS OF THE VISUAL EJECTION OF SILICONE AS 표 9

THE DIRECT TENSION INDICATOR (DTI) WASHERS SHALL BE THE "SQUIRTER® STYLE" AS MANUFACTURED

APPLIED BOLTING TECHNOLOGY PRODUCTS, 1413 ROCKINGHAM ROAD

BELLOWS FALLS, VERMONT 05101, USA PHONE 1-800-552-1999 WEBSITE: WWW.APPLIEDBOLTING.COM

DISTRIBUTORS OF SQUIRTER® DTI'S: HTTP://WWW.APPLIEDBOLTING.COM/APPLIED-BOLTING-DISTRUBUTORS.HTML

<u>DTI:</u> USE DIRECT TENSION INDICATOR (DTI) WASHERS COMPATIBLE WITH 3/4" NOMINAL A325 BOLTS FOR THE AJAX M20 BOLTS. DTI'S SHALL NOT BE HOT-DIP GALVANIZED. DTI'S SHALL MECHANICALLY GALVANIZED (MG) BY THE COLD MECHANICAL PROCESS ONLY AS PROVIDED BY THE DTI MANUFACTURER. BE

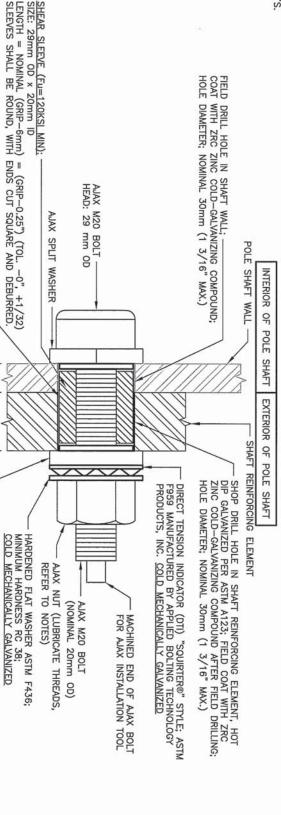
HARDENED WASHERS REQUIRED: USE A HARDENED WASHER FOR A 3/4" NOMINAL BOLT BETWEEN THE TOP OF THE DIRECT TENSION INDICATOR HARDENED WASHERS SHALL CONFORM TO ASTM F436 AND HAVE A MINIMUM HARDNESS OF RE 38 OR HIGHER. THE HARDENED WASHERS SHALL MECHANICAL PROCESS. ALTERNATIVELY, CORRECTLY MADE HOT DIP GALVANIZED HARDENED FLAT WASHERS HAVING A MINIMUM HARDNESS OF RC DOCUMENTATION OF WASHER SPECIFICATION AND HARDNESS. (DTI) WASHER AND THE NUT OF THE AJAX M20
BE MECHANICALLY GALVANIZED BY THE COLD
38 CAN BE USED; CONTRACTOR SHALL PROVIDE BOLT.

<u>NUT LUBRICATION REQUIRED:</u> PROPERLY LUBRICATE THE THREADS OF THE NUT OF THE AJAX BOLT SO THAT IT CAN BE PROPERLY TIGHTENED WITHOUT GALLING AND/OR LOCKING UP THREADS. CONTRACTOR SHALL FOLLOW DTI MANUFACTURER INSTRUCTIONS FOR PROPER LUBRICATION AND TIGHTENING. ON THE BOLT

NOTE: COMPLETELY COMPRESSED DTI'S SHOWING NO VISIBLE REMAINING GAP ARE ACCEPTABLE. DTI WASHERS SHALL BE PLACED DIRECTLY AGAINST FACING AWAY FROM THE AJAX WASHER. PLACE A HARDENED WASHER BETWEEN THE DTI AND AJAX NUT. THE DTI BUMPS SHALL BEAR AGAINST THE DIRECTLY AGAINST THE NUT. THE OUTER AJAX WASHER WITH THE DTI BUMPS UNDERSIDE OF A HARDENED FLAT WASHER, NEVER

CONTRACTOR SHALL FOLLOW DTI MANUFACTURES'S INSTRUCTIONS FOR INSTALLATION, LUBRICATION, TIGHTENING AND INSPECTION.

INSPECTION REQUIRED: ALL AJAX BOLTS SHALL BE INSPECTED ACCORDING TO THE REQUIREMENTS OF THE AISC "SPECIFICATION FOR STRUCTURAL JOINTS USING HIGH-STRENGTH BOLTS", DEC. 32, 2009, BY A QUALIFIED BOLT INSPECTOR. DURING INSTALLATION, THE BOLT INSPECTOR SHALL VERIFY AND DOCUMENT THE SHOP-DRILLED AND FIELD-DRILLED HOE SIZES; THE INSTALLATION OF THE AJAX BOLT ASSEMBLY, INCLUDING THE SHEAR SLEEVE PLACEMENT AND NUT LUBRICATION AND THE CONTRACTOR'S TENSIONING PROCEDURE. IN ADDITION, ALL AJAX BOLTS AND DIT'S SHALL BE VISUALLY INSPECTED ACCORDING TO THE DIT MANUFACTURER'S INSTRUCTIONS. THE BOLT INSPECTOR SHALL PROVIDE COMPLETE PHOTO DOCUMENTATION OF ALL BOLTS AFTER TIGHTENING CLEARLY SHOWING THE CONDITION OF THE DIT'S.



NOTE: COMPRESSIBLE GASKET MATERIAL SUCH AS NEOPRENE OR SILICONE CAULKING SHALL BE INSTALLED IN THIS GAP TO ENSURE THE SHEAR SLEEVE REMAINS SEATED TOWARD POLE SHAFT

SCALE: N.T.S.

TYPICAL AJAX BOLT DETAIL

SHEAR

AJAX

WASHER

GENE RAL NOTES

- 1.2 :
- WELL AS ANY OTHER GOVERNING BUILDING CODES.

 1.2 FIELD WORK WILL BE DONE AROUND EXISTING CODAXAL CABLE AND EQUIPMENT. ALL WORK SHALL BE DONE IN A MANNER SUCH THAT NO DAMAGE OCCURS TO THE EXISTING EQUIPMENT OR THE STRUCTURE.

 1.3 A MINIMUM OF TWO COATS OF ZINGA COLD GALVANIZING COMPOUND (OR APPROVED EQUIVALENT) SHALL BE APPLIED TO ANY FIELD CUTS OR FIELD DRILLED HOLES.

 1.4 THE USE OF A GAS TORCH OR WELDER WILL NOT BE PERMITTED ON THE TOWER WITHOUT THE CONSENT OF THE OWNER.

 1.5 IN LIEU OF TEMPORARY BRACING CONTRACTOR MAY HAVE A STABILITY ANALYSIS PERFORMED BY AN ENGINEER LICENSED IN THE STATE THE TOWER IS LOCATED. THE ANALYSIS SHALL USE A MINIMUM WIND SPEED OF 45 mph (3—SEC) PER TIA—1019.

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1.3

1.5 1.4

2.1 FABRICATION

2.2

- ALL WORK SHALL BE DONE IN ACCORDANCE WITH A.I.S.C. "SPECIFICATIONS FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS.
 STRUCTURAL STEEL SHALL MEET THE FOLLOWING SPECIFICATIONS:
- ASTM SPECS A572 A53-B

SHAPES AND PIPE PLATES, U.N.O.

YIELD 65ksi 50ksi

- ALL NEW MATERIAL INCLUDING STRUCTURAL STEEL AND FASTENERS SHALL BE HOT DIPPED GALVANIZED AFTER FABRICATION IN ACCORDANCE WITH ASTM A123 AND A153.
 WELDING SHALL MEET ANSI/AWS D1.1 STRUCTURAL WELDING CODE (LATEST REVISION). ELECTRODES SHALL BE E80 SERIES. CONTRACTOR SHALL PROVIDE SHOP FABRICATION DRAWINGS TO B+T GROUP 2 WEEKS PRIOR TO FABRICATION.

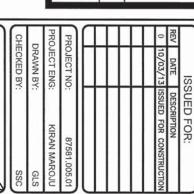
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A NOTES

TOWER MODIFICATION 5

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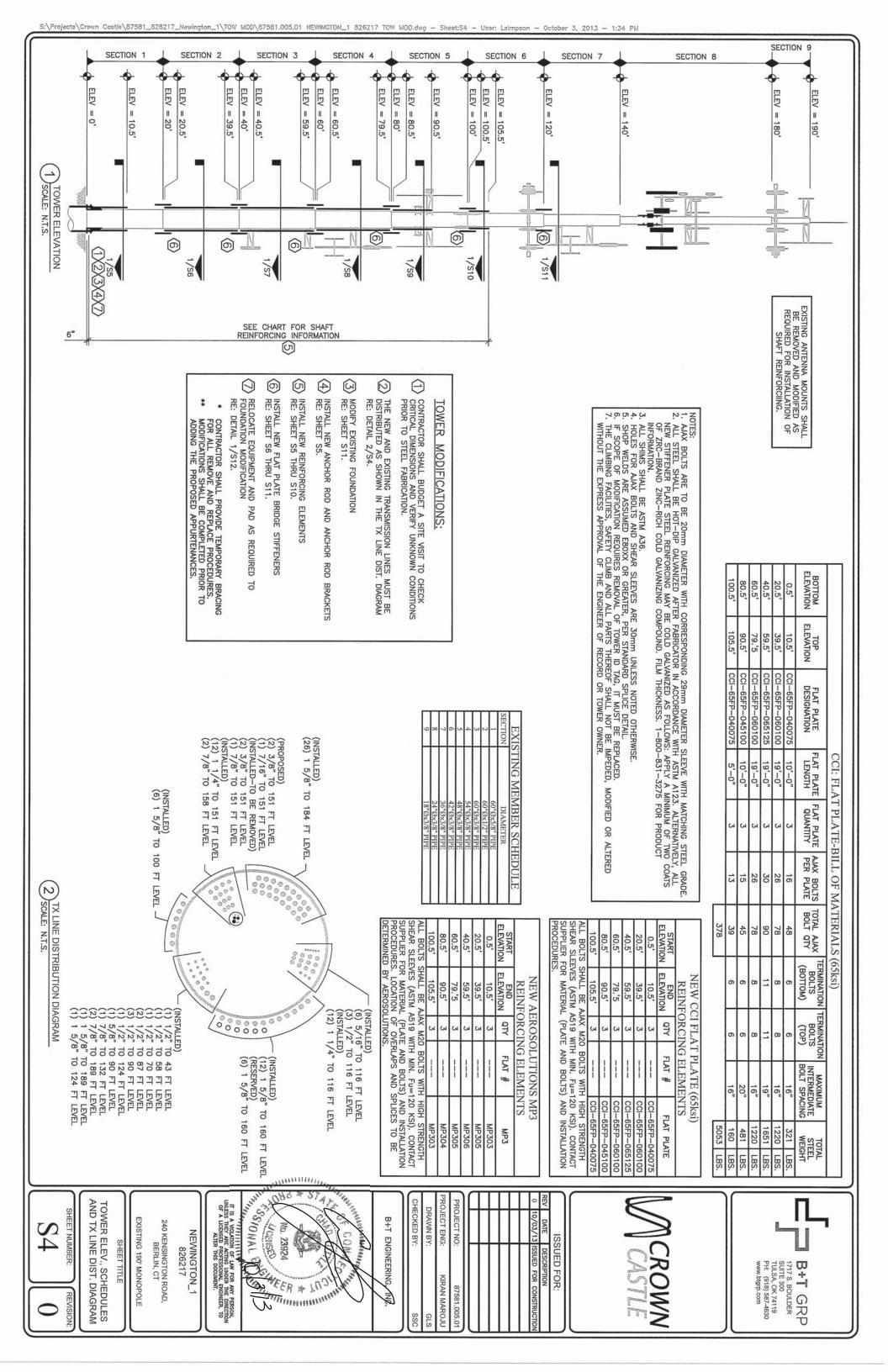
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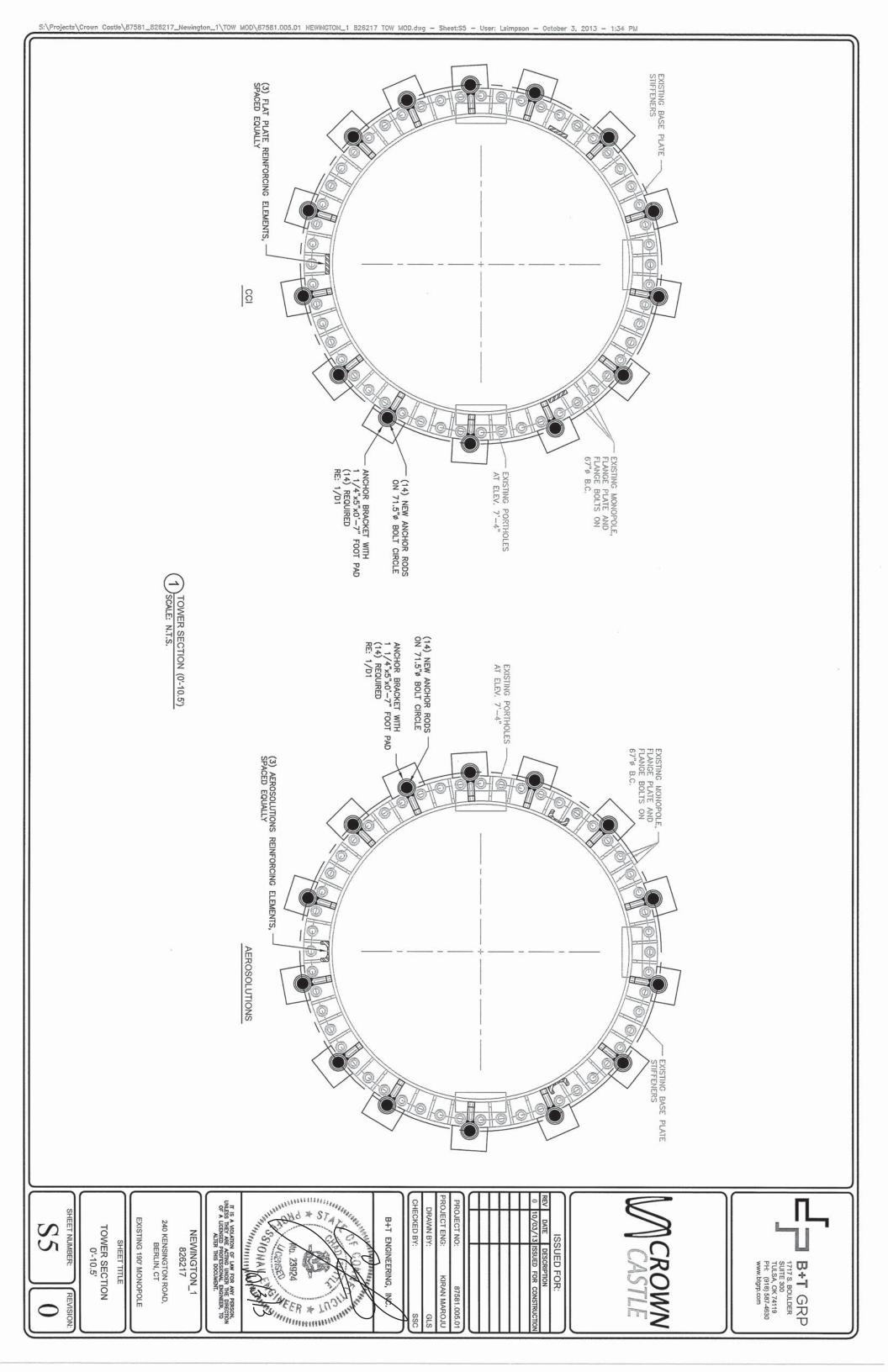
240 KENSINGTON ROAD, BERLIN, CT NEWINGTON_1 826217

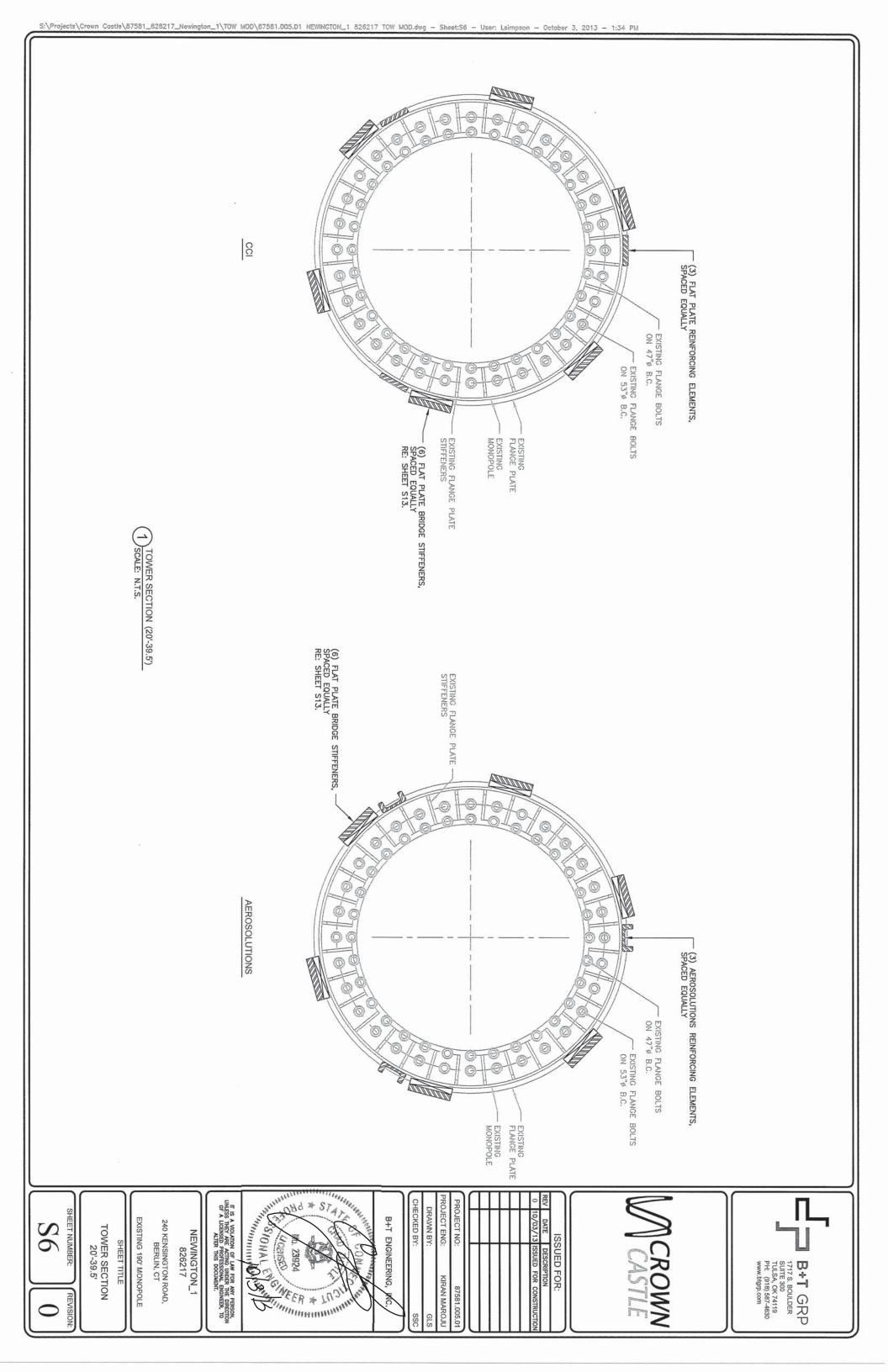
EXISTING 190' MONOPOLE

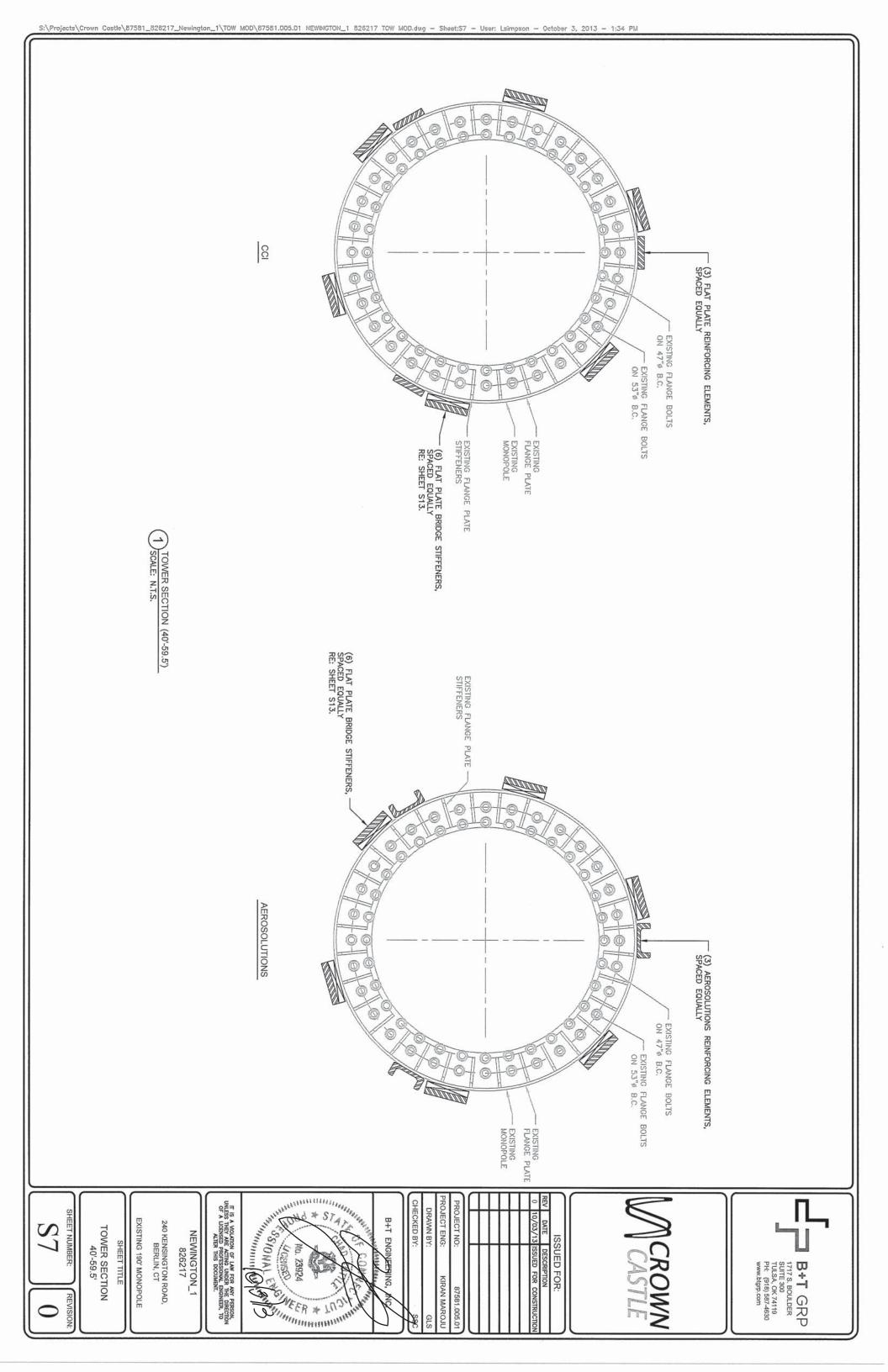
SHEET NUMBER: GENERAL NOTES, AJAX BOLT NOTES AND DETAILS

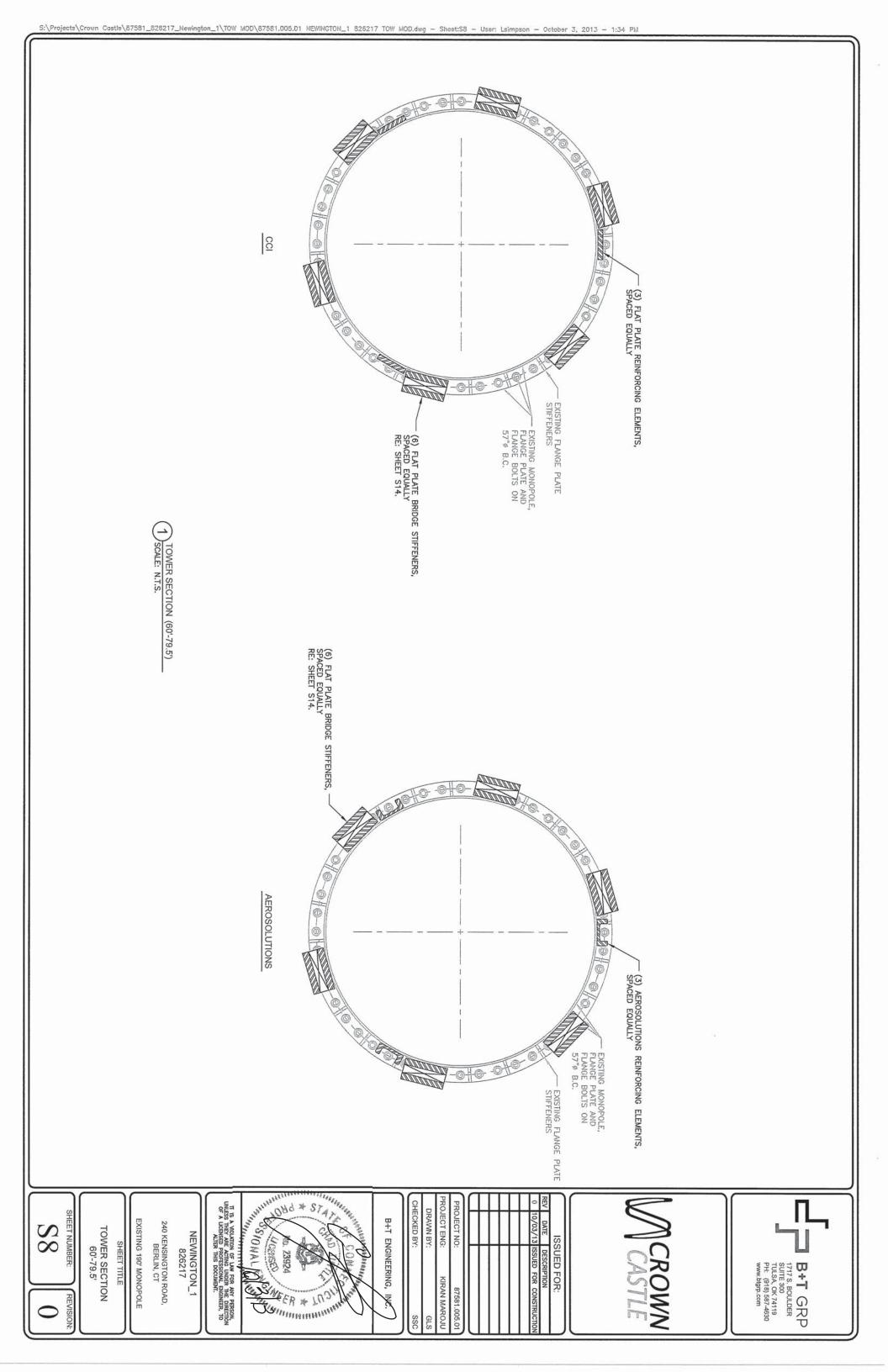
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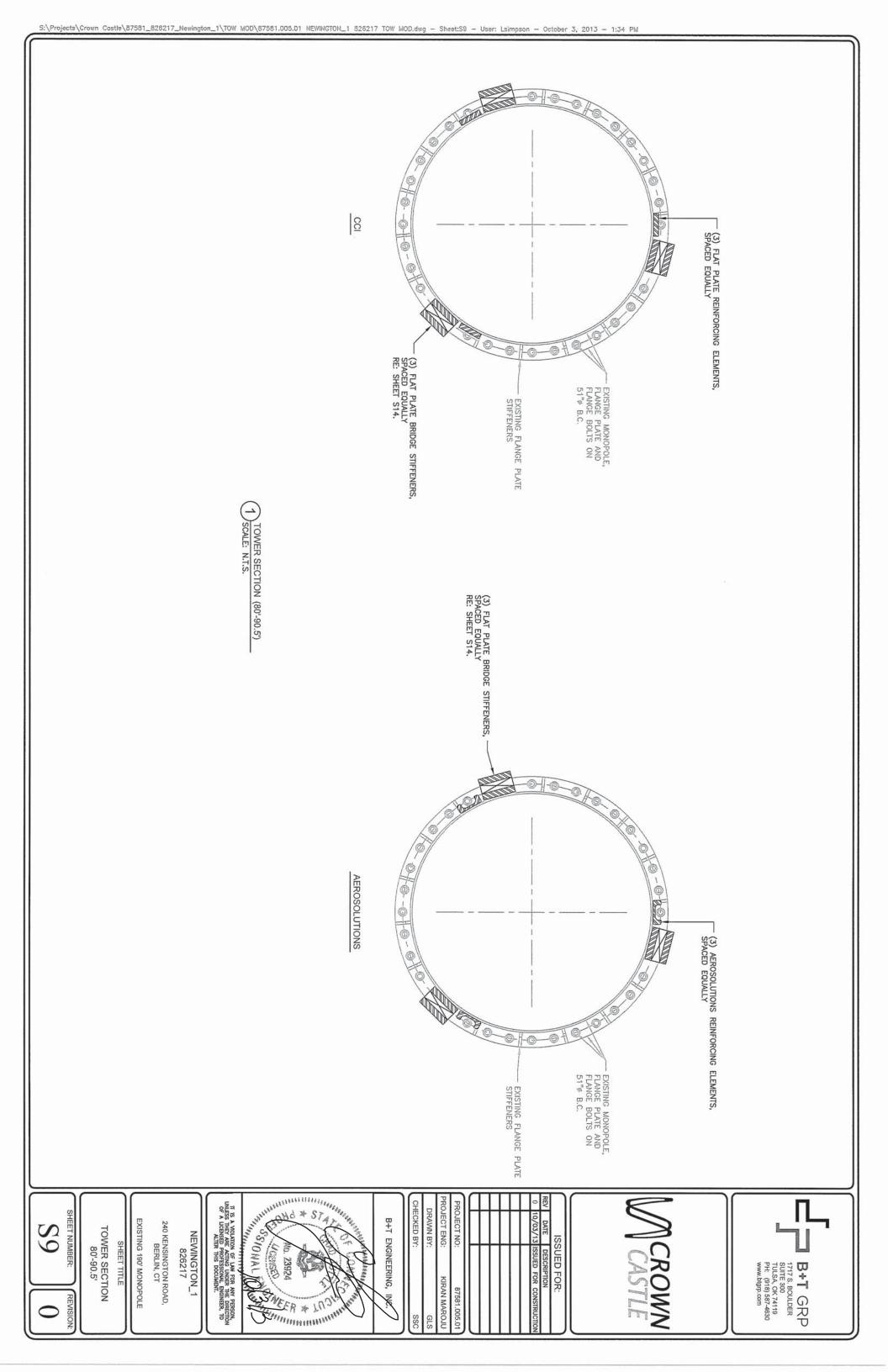


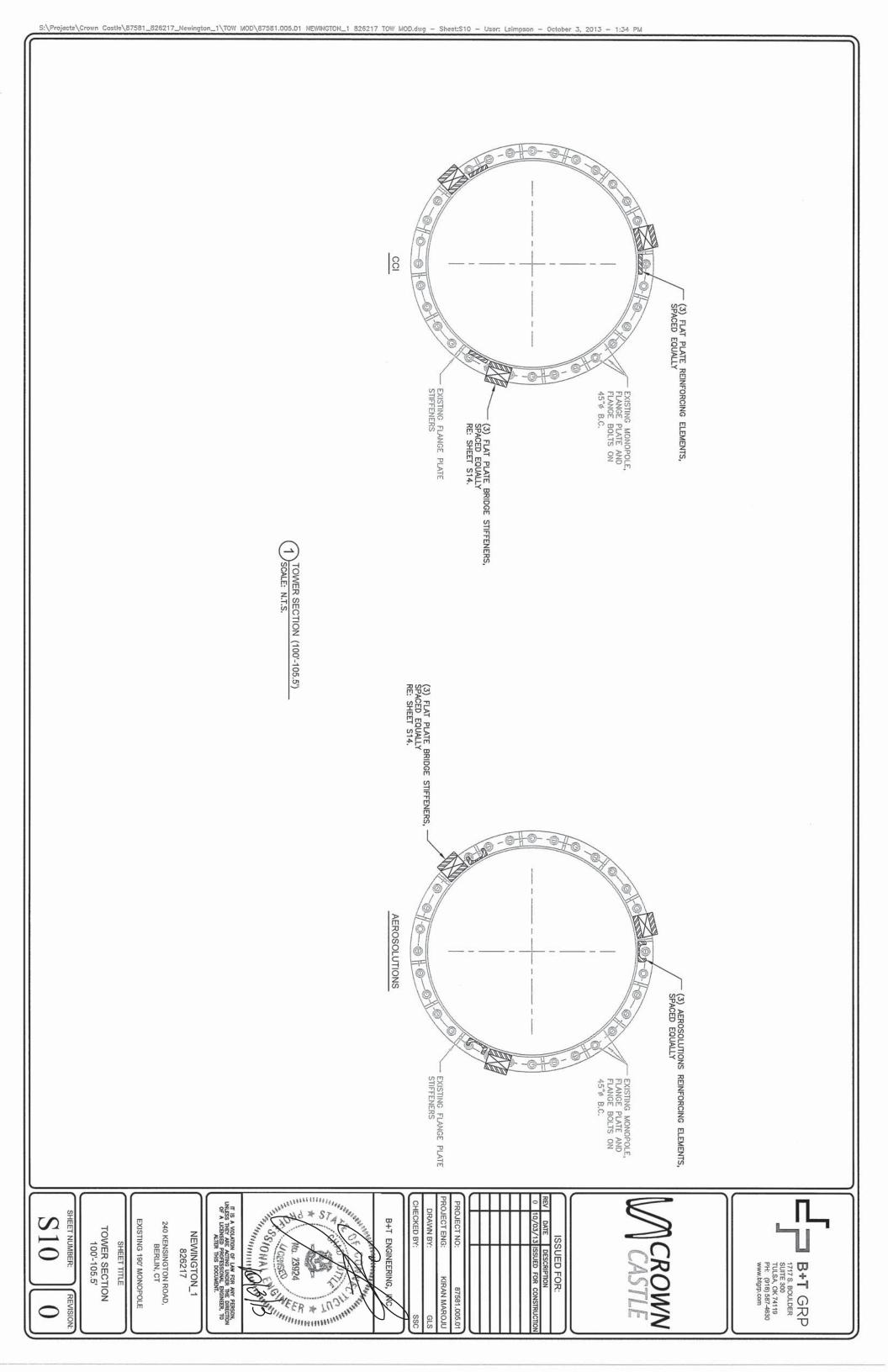


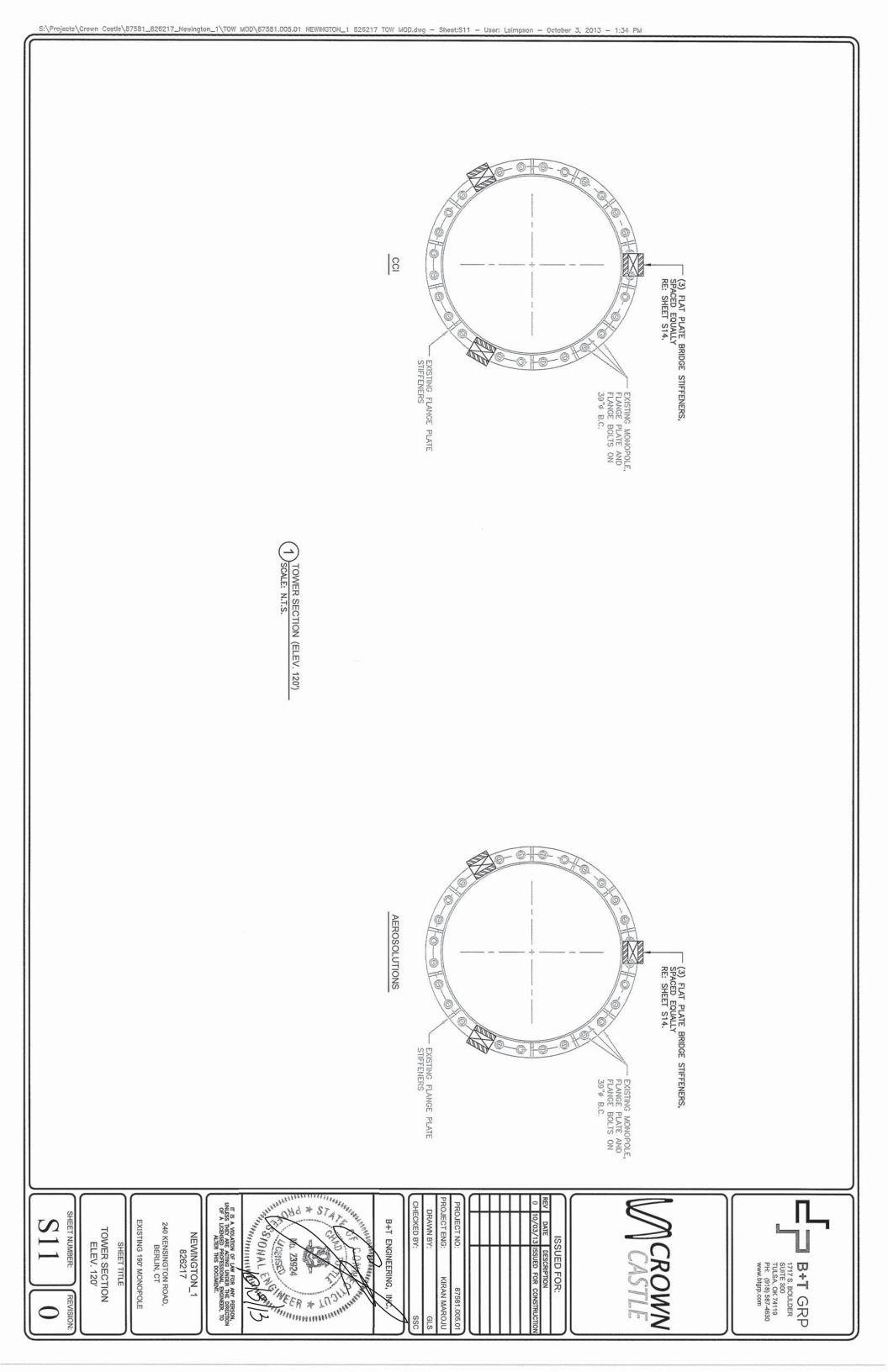












CONTRACTOR NOTE:
TAKE ALL MEASURES NECESSARY TO AVOID DAMAGING EXISTING FLANGE STIFFENERS
DURING DRILLING OPERATIONS. NOTIFY B+T GROUP IMMEDIATELY IF EXISTING FLANGE
STIFFENERS ARE ENCOUNTERED AND INTERFERE WITH PLACEMENT OF BRIDGE STIFFENERS.
MINOR ADJUSTMENT TO PROPOSED LOCATION OF BRIDGE STIFFENERS
MAY BE REQUIRED.

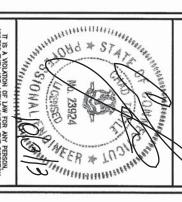
	٥	ر	NOIT	
	o	o	NO. OF BRIDGE STIFFENERS	
	CCI-65FP-065125	CCI-65FP-065125	FLAT PLATE SIZE	
	14'-10"	14'-10"	DIM. "A"	FL.A
	11 HOLES @ 2'-6"	11 HOLES @ 2'-6"	QTY @ DIM. "B"	T PLATE BRIDGE
	CCI-65FP-065125 14'-10" 11 HOLES @ 2'-6" 10 HOLES @ 2'-3" 2'-1"	CCI-65FP-065125 14'-10" 11 HOLES @ 2'-6" 10 HOLES @ 2'-3" 2'-0"	QTY @ DIM. "C"	FLAT PLATE BRIDGE STIFFENER-SCHEDULE (65 KSI)
	2'-1"	2'-0"	DIM. "D"	OULE (65 KS
	7'-5"	7'-4"	DIM. "E"	(I)
	7'-5"	7'-4"	DIM. "F"	
	46	46	AJAX BOLT QTY PER STIFFENER	
	276	276	TOTAL AJAX BOLT QTY	
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FLAT PLATE BRIDGE STIFFENER DETAIL, SCHEDULE AND NOTES

EXISTING 190' MONOPOLE 240 KENSINGTON ROAD, BERLIN, CT NEWINGTON_1 826217







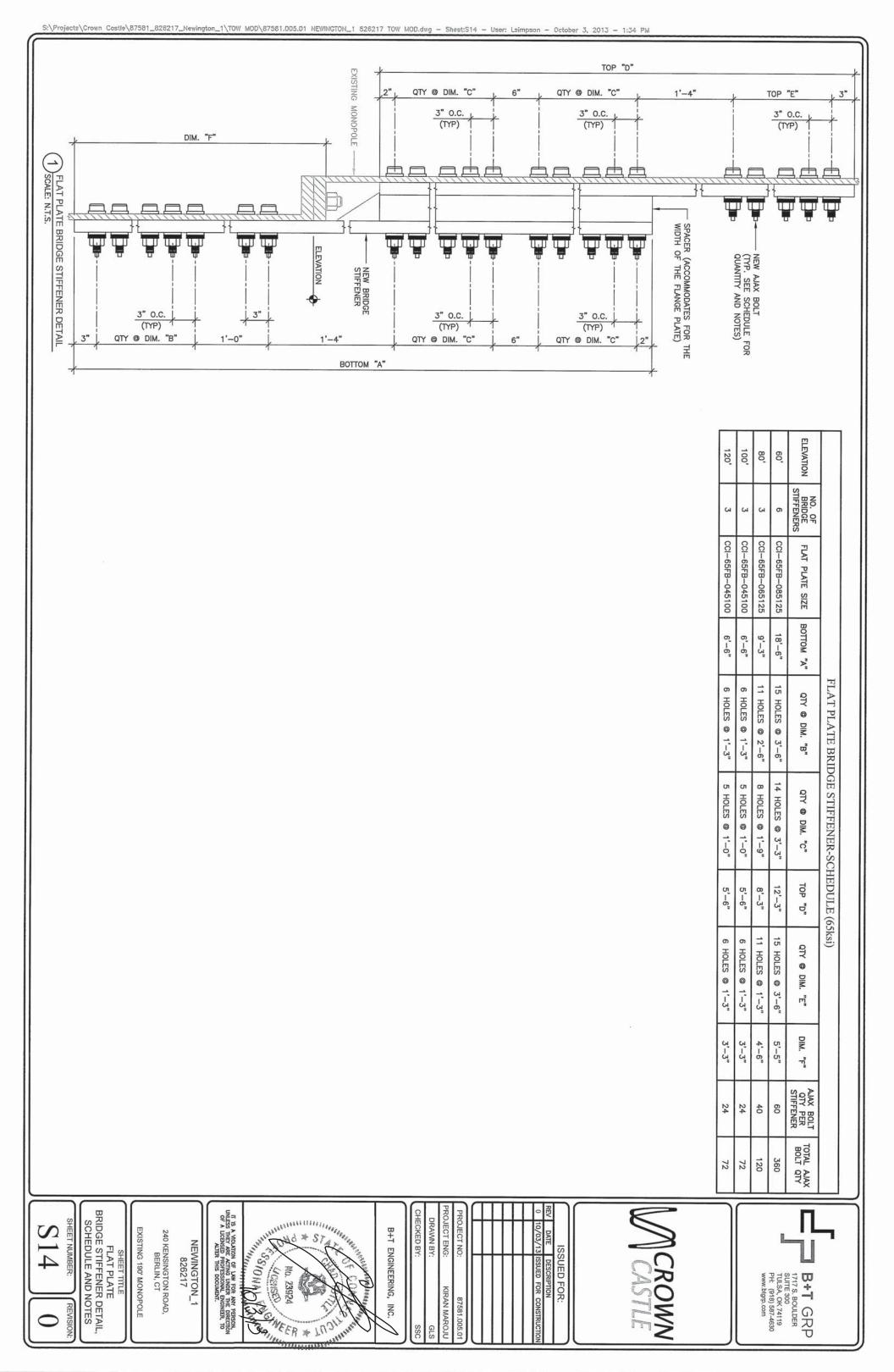
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KIRAN MAROJU	PROJECT ENG:
87581.005.01	PROJECT NO:

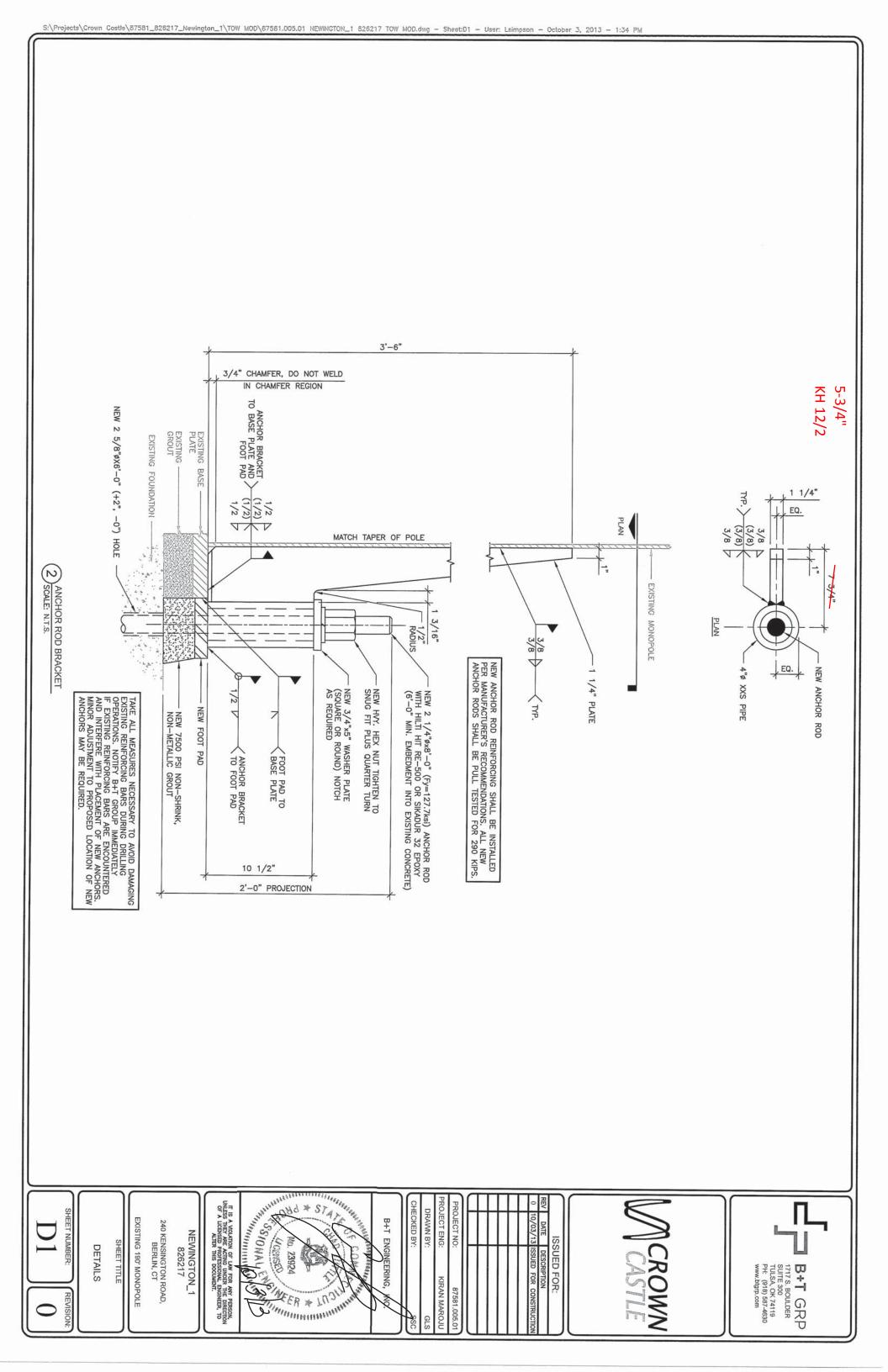
B+T ENGINEERING, INC.

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KIRAN MAROJU	PROJECT ENG:
87581.005.01	PROJECT NO:
ISSUED FOR CONSTRUCTION	0 10/03/13
DESCRIPTION	REV DATE
ISSUED FOR:	ISS



B+T GRP 1717 S. BOULDER SUITE 300 TULSA, OK 74119 PH: (918) 587-4630 www.bigrp.com





October 3, 2013

Mr. Steve Tuttle Crown Castle 349 West Commercial Street, Suite 2630 East Rochester, NY 14445 (585) 899-3445



B+T Group 1717 S. Boulder, Suite 300 Tulsa, OK 74119 (918) 587-4630 ctuttle@btgrp.com

Subject: **Structural Modification Report**

Carrier Designation: **AT&T Mobility Co-Locate**

Carrier Site Number: CT1019 Carrier Site Name: CT1019

Crown Castle Designation: **Crown Castle BU Number:** 826217

> Crown Castle Site Name: Newington 1 **Crown Castle JDE Job Number:** 228234 **Crown Castle Work Order Number:** 656208

Crown Castle Application Number: 178224 Rev. 10

Engineering Firm Designation: B+T Group Project Number: 87581.005.01

Site Data: 240 Kensington Road, Berlin, CT, Hartford County

Latitude 41° 37′ 34.25″, Longitude -72° 46′ 32.1″

190 Foot - Monopole

Dear Mr. Tuttle,

B+T Group is pleased to submit this "Structural Modification Report" to determine the structural integrity of the above mentioned tower. This analysis has been performed in accordance with the Crown Castle Structural 'Statement of Work' and the terms of Crown Castle Purchase Order Number 581786, in accordance with application 178224, revision 10.

The purpose of the analysis is to determine acceptability of the tower stress level. Based on our analysis we have determined the tower stress level for the structure and foundation, under the following load case, to be:

LC4.7: TSA specified load case with proposed modifications Note: See Table 1 and Table 2 for the proposed and existing/reserved loading, respectively. Sufficient Capacity

The analysis has been performed in accordance with the TIA/EIA-222-F standard and the 2005 CT State Building Code based upon a wind speed of 80 mph fastest mile.

All modifications and equipment proposed in this report shall be installed in accordance with the attached drawings for the determined available structural capacity to be effective.

We at B+T Group 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.

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Respectfully submitted by: B+T Engineering, Inc.

Kiran Maroju, E.I. Project Engineer

Chad E. Tuttle, P.E. President

tnxTower Report - version 6.1.3.1