

3530 Toringdon Way Suite 300 Charlotte NC 28277

Jerry Feathers Tel (704) 405-6549 Fax (724) 416-6484 Email: Jerry.feathers.contractor@crowncastle.com

October 8, 2015

Melanie A. Bachman **Connecticut Siting Council** 10 Franklin Square New Britain, CT 06051

RE: Exempt Modification-EM-Crown Castle-007-140328 Crown ID-826217 AT&T app#178224

Dear Ms. Bachman:

As requested in your April 17, 2014 Decision Letter, Crown is submitting a PMI document certified by a professional engineer stating the structural modifications were completed in accordance with the CD's and structural analysis. Page 4 of the PMI report shows the engineer's stamp.

Please contact me if you have any questions.

Sincerely,

Jerry Feathers Property Specialist 704-405-6549

January 8, 2015



Sinnott Gering and Schmitt Towers, INC 14301 First National Bank Pkwy, STE 100 Omaha, NE 68154 (402) 507-5170 <u>SGS_PMI@sgstowers.com</u>

Jerry Bruno Crown Castle 500 West Cummings Park, STE 3600 Woburn, MA 01801 (781) 970-0069 Jerry Bruno.Contractor@crowncastle.com

Subject: Modification Inspection Report

Crown Castle Designation:	Crown Castle BU Number: Crown Castle Site Name: Crown Castle JDE Job Number:	826217 Newington_1 218597
Engineering Firm Designation:	SGS Project Number:	130573
Site Data:	240 Kensington Road Berlin, CT 06037 N 41° 37' 34.3", W 72° 46' 32.33" 190 Foot Monopole	

Dear Mr. Bruno,

Sinnott Gering and Schmitt Towers, Inc. (SGS) is pleased to submit this "Modification Inspection Report" (MI Report) to Crown Castle for the modification/reinforcement to the subject structure. This Modification Inspection (MI) was performed in accordance with Crown Castle ENG-SOW-10007 Modification Inspection SOW, Contract Documents, and Crown Castle Purchase Order number 591479. The purpose of this MI is to confirm that the modification installation configuration and workmanship are in accordance with the contract document(s) listed in Table 2. The MI is not a review of the adequacy or effectiveness of the modification/reinforcement solution.

Table 1 – General Information

	Company	Contact	Dates on Site
MI Inspector	SGS	Nicholas J. Schmitt, P.E., S.E.	N/A
MI Inspector Field Representative (if applicable)	SGS	Caleb Christner	December 3, 2014
Independent	EOR	Turnkey	
Modification Design EOR	B+T Group	Chad Tuttle, P.E.	N/A
General Contractor	LCC	Keith Stackhouse	Unknown
Sub to the General Contractor	N/A	N/A	N/A
Field CWI for the General Contractor	Applied Testing Group	Lloyd Harper, C.W.I.	September 28 to
Field NDE for the General Contractor	FF	-,,,,	December 8, 2014

Table 2 – Documents

Document(s)	Remarks	Source
Modification Drawings	Creator of Drawings:	CCI Sites
Date: 10/17/2014	B+T Group	Drawing File:
EOR: Chad Tuttle, P.E.	Job #: 87581.005.01 R1	4003976
Job#: 87581.005.01 R1	Date of Drawings: 10/17/2014	

Based on our inspection, SGS determines this project:

X PASSING MI

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

MODIFICATION	CONFIGURATION	MATERIALS	WORKMANSHIP
Modify Existing Foundation.	Passing	Passing	Passing
Install Anchor Rods at Towers Base.	Passing	Passing	Passing
Note: Anchor Brackets Note: Anchor Bracket was Shifter Note: A Thicker Washer was Used & Note: More Anchor Rod Stiffe See Section 6.3.2 f	d to the Left to Avoid Trimmed to Allow A	Existing Porth nchor Nut to Ti than Designed.	
Install Plate Shaft Reinforcement. 0.5' to 10.5', 20.5' to 39.5', 40.5' to 59.5', 60.5' to 79.5', 80.5' to 90.5' & 100.5' to 105.5'.	Passing	Passing	Passing
Note: Flats Bar Starts at Note: Shims were used to Clear Note: Termination Bolt Configuration was Diffe Note: The Collar was Rer Note: Plates were Installed a Note: Plates Installed See Section 6.3.2 f	the Existing Weld Se erent than Designed I noved & Replaced at t a Higher Elevation t	ams on the Pol Due to Existing 43' 4.25". han Designed. paced.	
Install Flat Plate Bridge Stiffeners. 20', 40', 60', 80', 100' & 120'.	Passing	Passing	Passing
Note: The Bottom Plate of the 60' B Note: Larger Flat Washers were used Note: Newly Installed Bridge Stiffeners were See Section 6.3.2 f	than Designed at th	e 60' Bridge Sti qual Spacing B	iffener.

EXECUTIVE SUMMARY

All observations were performed after the construction was complete. SGS was not present during the construction phase. The onsite PMI was performed by Caleb Christner, SGS.

We at SGS 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,



Nick Schmitt, P.E., S.E.

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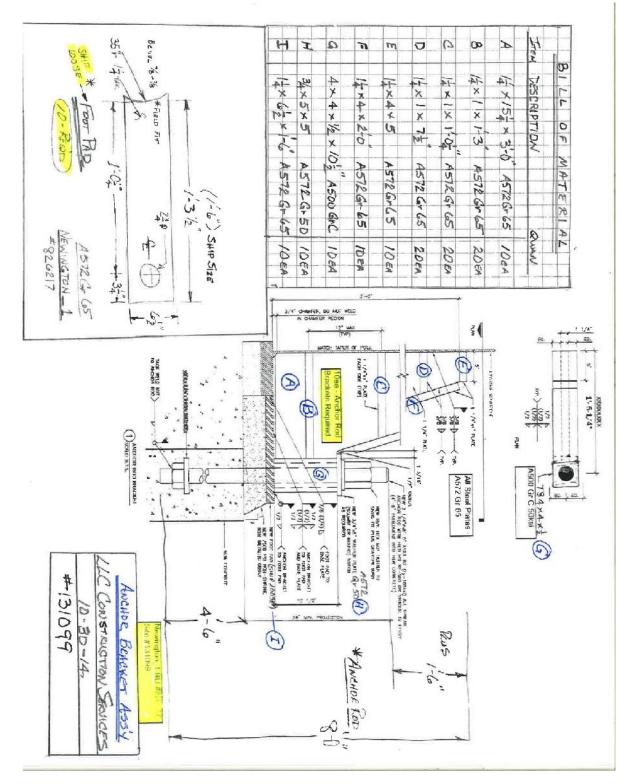
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PRE-CONSTRUCTION

6.1.1 MI CHECKLIST DRAWING

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6.1.2 EOR APPROVED SHOP DRAWINGS



Subject: Attachments: FW: Newington 1 BU# 826217 - Revised Anchor Bracket Review image001.gif; Untitled attachment 00071.htm; Untitled attachment 00074.htm; Newington_1 Revised Fab Drwg for Anchor Brkt.pdf; Untitled attachment 00077.htm

From: Macy Arianpour <<u>marianpour@btgrp.com</u>>

Date: December 29, 2014 at 4:39:16 PM EST

To: Tom Roberts <<u>tom_roberts@lcc.com</u>>, Ali Abbaszadeh <<u>AAbbaszadeh@btgrp.com</u>>

Cc: "'Keith Stackhouse' @ ConstructionServices" <<u>keith_stackhouse@lcc.com</u>>, "'Dan Hughes' @ LCC Construction Services" <<u>daniel_hughes@lcc.com</u>>, "'Jorge Forsythe ' @ LCC Construction Services" <<u>jorge_forsythe@lcc.com</u>>, "'Rich Taschek' @ LCC Construction Services" <<u>rich_taschek@lcc.com</u>>

Subject: RE: Newington 1 BU# 826217 - Revised Anchor Bracket Review

Tom,

I just talked to Ali and he said these are already installed. As long as the inspector didn't find any deviation from the modification drawings or the change was approved by the EOR, the shop drawing requirement can be waived. Please let us know if you need anything else.

Thanks,

Macy Arianpour, Project Engineer 1717 South Boulder Ave., Suite 300, Tulsa, Oklahoma 74119 O (918) 587-4630 + <u>btgrp.com</u> + <u>marianpour@btgrp.com</u>

6.1.3 FABRICATORS CERTIFIED WELD INSPECTION





Lockport Steel Fabricators, LLC 3051 S State Street Lockport IL 60441 815.726.6281

To: LCC Deployment Service

Subject: Newington

Date: 3/28/14

Please accept this letter as certification that our work on LCC Job# 412245 LSF SO#-15528 - was performed in accordance with industry standards and the contractor documents.

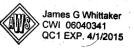
Please contact me if you have any questions.

Thank you,

Mat Yingling QA Manager Lockport Steel Fabricators, LLC

James G. Whittaker

CWI Lockport Steel Fabricators, LLC



Lockport Steel Fabricators, LLC • Binzel Industries, LLC • Bending Specialists, LLC • The Wil-Lan Company



Lockport Steel Fabricators, LLC 3051 S State Street Lockport IL 60441 815.726.6281

Customer: LCC

Project: Newington/412245

Location: Berlin, CT

LSF SO#: 15528

Date: 3/28/14

To whom it may concern;

We have performed visual observation and monitoring during all phases of the fabrication of the referenced welded components. This includes; pre, post and in process review consisting of a visual examination by an AWS Certified Welding Inspector of all welded components to evaluate their conformance with the applicable welding code requirements. We have reviewed the scope of work to ensure that it meets or exceeds the customer contractual requirements.

During the examination of all welded components it was found that all parts were in compliance with the specified requirements of AWS D1.1 and conformed to the customer project specifications. Please refer to the attached signed inspection sheet for individual piece marks and any relevant notes.

Respectfully submitted,

Lockport Steel Fabricators, LLC.

3051 South State St.

Lockport, Illinois 60441

See Attached: Weld Inspection form and Photos

Lockport Steel Fabricators, LLC • Binzel Industries, LLC • Bending Specialists, LLC • The Wil-Lan Company

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BUL NO. : 359058

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Our-Order No. : 113786/1

Sold To

LEECO STEEL PRODUCTS. 1911 Mismonville Road Statre 660 LIGLE, E. 30532

Ship Tat: LEECO STEEL PRODUCTS (WU E BOUNDARY ROAD YORTAGELW 46388

Cause, Orster No. : YD098

It's our Nature

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FEATE MILL ZCNDD

F.O. Box 273 Winton, NC 27988 (2£2) 356-3700

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Page 18 of 139

6.1.5 NDE REPORT OF MONOPOLE BASE PLATE

See Section 6.2.6 Contractor's Certified Weld Inspection.

6.1.6 PACKING SLIPS



Telecommunications Contracting Company, Inc. 7900 Westpark Drive, Suite A300 Molean, VA 22102 Tel: (703) 873-2700

Purchase Order

PO Number 411578

Ship To: Telecommunications Contracting Company, Inc. 2242 Old Martton Pike Martton, NJ 08053

Bill To: Telecommunications Contracting Company, Inc. 7900 Westpark Drive, Suite A300 Mclean, VA 22102

Vendor:
SAS Stressteel, Inc.
100 New Dutch Lane
Fairfield, NJ 07004-2515

PAYMENT TERMS	VENDOR ID	DATE OF ORDER	DATE EXPECTED	
Net 30	TC-V-12155	11/18/2013	11/18/2013	
SITE ID				
131099 - Newington 1				

ITEM	DESCRIPTION	QUANTITY	U.O.M.	UNIT	AMOUNT
A-D-Subcontractor-Eq ulpment	(8)ca - 1-3/8"dia x 40'-0" 150 ksi - ATR Ready from SAS - 2-3 days (Stock material) TCR00617131099 - Newington 1	8	Each	\$200.00	\$1,600.00
A-D-Subcontractor-Eq uipment	(16)ea - 1-3/8"dia Heavy Hex nut TCRO0817131099 - Newington 1	16	Each	\$15.00	\$240.00
				Total:	\$ 1,840.00

SUPPLIER INSTRUCTIONS	TCCI APPR	OVAL
 Invoice must reference Purchase Order Number isled above or supplier will experience payment delays. Invoice should be emailed to lap team@telecomcontracting.com' Broncess order with the above shipping method, terms, prices, and specifications. Please notify TCOTs contract person immediately if you are unable to ship as specified. Upon acceptance of this purchase order solitor agrees to arthere to TCOI forms and conditions located at www.ls comparison/purchasing terms conditions; as amended from time to time, which are incorporated forcin by this reference, with the same force and affect as if they word given in full toxt. 	Procurement Dept. TCCI Authorized Agent	11/18/2013 Date

Bill of Lading

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T O

Bill of Lading #:	ED43760
Ship Date:	8/14/2014
Customer	LCC-DS, INC.
Job Number:	S4540
Ship Via:	CUSTOMER PICKUP
F.O.B.:	
Customer P.O.:	
Customer Job No:	
Contact:	
Phone:	
Weight Summary	
Size	
Rebar, Grade 60, Black	
4 178	
7 6.345	

7	6,345
8	481
	7,004
Total:	7,004
Total Weight:	7,004

PO#413264 FOR NEWINGTON 1- 131099 P/V 8-14-14

> Page 1 of 1 Page 2 of 2

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Purchase Order

PO Number 412245

LCC Deployment Services, inc. 7900 Westpark Drive, Suite A300 Mclean, VA 22102 Ship To:

Ship to site: 240 Kensington Road Berlin, CT 06037

Vendor: Lockport Steel Fabricators, LLC 3051 State Street PO BOX 248 Lockport, IL 60441

Bill To: LCC Deployment Services, Inc. 7900 Westpark Drive, Suite A300 Mclean, VA 22102

PAYMENT TERMS Net 30	FOB	DATE OF ORDEF 02/26/2014	:	FREIGHT TERMS Prepaid	
DATE EXPECTED 02/26/2014		REFERENCE 131099		Prepaid	
ITEM	DESCRIPTION	QUANTITY	U.O.M.	UNIT PRICE	AMOUNT
A-D-Subcontractor-Eq uipment	FB 3/4" x 4" x 10"-0" cut to size, drilled, fabbed and HDG per provided sketches - A572-65 - MK1 Ready from LSF - 3-4 weeks	3	Each		
A-D-Subcontractor-Eq uipment	FB 1" x 6" x 19'-0" cut to size, drilled, fabbed and HDG per provided sketches - A572-65 - MK2	6	Each		
A-D-Subcontractor-Eq uipment	FB 1-1/4" x 6-1/2" x 19'-0" cut to size, drilled, fabbed and HDG per provided sketches - A572-65 - MK3	3	Each		
A-D-Subcontractor-Eq uipment	FB 1" x 4-1/2" x 10'-0" cut to size, drilled, fabbed and HDG per provided sketches - A572-65 - MK4	3	Each		
A-D-Subcontractor-Eq uipment	FB 3/4" x 4" x 5'-0" cut to size, drilled, fabbed and HDG per provided sketches - A572-65 - MK5	3	Each		
A-D-Subcontractor-Eq uipment	FB 1/2" x 6-1/2" x 6'-9" cut to size, drilled, fabbed and HDG per provided sketches - A36 - MK6	24	Each		
A-D-Subcontractor-Eq uipment	FB 1-1/4" x 6-1/2" x 14'-10" cut to size, drilled, fabbed and HDG per provided sketches - A572-65 - MK7	6	Each		
A-D-Subcontractor-Eq uipment	FB 1-1/4" x 6-1/2" x 14'-11" cut to size, drilled, fabbed and HDG per provided sketches - A572-65 - MK8	6	Each		
A-D-Subcontractor-Eq uipment	FB 1/2" x 8-1/2" x 5'-0" cut to size, drilled, fabbed and HDG per provided sketches - A36 - MK9	6	Each		
A-D-Subcontractor-Eq uipment	FB 1-1/4" x 8-1/2" x 13'-3" cut to size, drilled, fabbed and HDG per provided sketches - A572-65 - MK10	6	Each		
A-D-Subcontractor-Eq uipment	FB 2-1/4" x 8-1/2" x 7'-4" cut to size, drilled, fabbed and HDG per provided sketches - A36 - MK11	6	Each		
A-D-Subcontractor-Eq uipment	FB 1-1/4" x 8-1/2" x 12'-3" cut to size, drilled, fabbed and HDG per provided sketches - A572-65 - MK12	6	Each		



Purchase Order

PO Number 412245

LCC Deployment Services, Inc. 7900 Westpark Drive, Suite A300 Mclean, VA 22102

Vendor: Lockport Steel Fabricators, LLC 3051 State Street PO BOX 248 Lockport, IL 60441 Ship To: 5

Ship to site: 240 Kens<mark>ington Road</mark> Berlin, CT 06037

Bill To: LCC Deployment Services, Inc. 7900 Westpark Drive, Suite A300 Mclean, VA 22102

A-D-Subcontractor-Eq uipment	FB 1/2" x 6-1/2" x 4'-0" cut to size, dnilled, fabbed and HDG per provided sketches - A36 - MK13	3	Each	
A-D-Subcontractor-Eq uipment	FB 1-1/4" x 6-1/2" x 9'-3" cut to size, drilled, fabbed and HDG per provided sketches - A572-65 - MK14	3	Each	
A-D-Subcontractor-Eq uipment	FB 2-1/4" x 6-1/2" x 4'-4" cut to size, drilled, fabbed and HDG per provided sketches - A36 - MK15	3	Each	
A-D-Subcontractor-Eq uipment	FB 1-1/4" x 6-1/2" x 8'-3" cut to size, drilled, fabbed and HDG per provided sketches - A572-65 - MK16	3	Each	
A-D-Subcontractor-Eq uipment	FB 1/2" x 4-1/2" x 2'-9" cut to size, drilled, fabbed and HDG per provided sketches - A36 - MK17	6	Each	
A-D-Subcontractor-Eq uipment	FB 1" x 4-1/2" x 6'-6" cut to size, drilled, fabbed and HDG per provided sketches - A572-65 - MK18	6	Each	
A-D-Subcontractor-Eq uipment	FB 2-1/2" x 4-1/2" x 2'-10" cut to size, drilled, fabbed and HDG per provided sketches - A36 - MK19	6	Each	
A-D-Subcontractor-Eq uipment	FB 1" x 4-1/2" x 5'-6" cut to size, drilled, fabbed and HDG per provided sketches - A572-65 - MK20	6	Each	
A-D-Subcontractor-Eq uipment	PL 1-1/4* x 3-1/2" x 3'-6" cut to size, fabbed and HDG per provided sketches - A572-65 - AB1	14	Each	
A-D-Subcontractor-Eq uipment	4" XXS (4-1/2" OD x .674w) Pipe x 10- 1/2" cut to size, fabbed and HDG per provided sketches - A53-50 - AB/P1	14	Each	
A-D-Subcontractor-Eq uipment	PL 1-1/4" x 5" x 7" cut lo size, fabbed and HDG per provided sketches - A572-50 - P1	14	Each	
A-D-Subcontractor-Eq uipment	PL 3/4" x 5" x 5" cut to size, fabbed and HDG per provided sketches - A572-50 - WP1	14	Each	

REPORTED WITHIN 7 DAYS.	DISCREPANCIES MUST BE	Disc		TERMS NET 30 Days				
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Supplied	Back Order	Qty Ordered	Unit			iption	Description	Order Code
1 - 826217	NEWINGTON	856 810 1658	85	Tom Roberts	413687	014	11.13.2014	10.29.2014
Ince	Reference	Contact No.	0	Ordered By	Customer Order No.		Ship Date	Order Date
Packing Slip 74666 Acc No: 6071		OFFICE COPY	FFIC	•		LCC Deployment Services inc (TCCi) Attn: Terry 609 678 8243 240 Kensington Rd Berlin CT 06037 Berlin CT 06037	LCC Deployment Servic Attn: Terry 609 678 8243 240 Kensington Rd Berlin CT 06037 Berlin CT 06037	P LCC De Attn: T 240 Ke Berlin
5450 W, 83rd Street Los Angeles, CA 90045 Ph: 310 410 5007 Fax: 310 410 5004 Email: sales@allfastenets.com		Ramsey, NJ 07446 Ph: 800 577 3171 Fax: 201 783 8840 Email: sales@allfastenets.com	IS.COM	Cieveland, CH 44142 Ph: 888 859 6060 Fax: 440 232 6062 Email: salos@alfastonors.com	ALLFASTENERS	ALLF/		

WILLIAMS FORM ENG 2600 VULCAN DRIVI LITHIA SPRINGS, C	E I INDIII BUILL						Page: 3/20/2 12:56:
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			Contact			FO	R.
Carrier: BEST BESTWAY	and the second second second	Order#: 1-CO 21	01.00	Cust PO#:			WINGTON
Instructions PPD- "QUOTED" /	SHIPPOINT	Cust# 12150		Request	412241 3/14/14	Schedu	130 1310
Рап	Description	100		l Quantity Orde	red		Quantity Shipped
Warehouse: A	LITHIA SPRINGS		~		3-27-14		
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R711811400RHGA150 Line#: 100 HT# R71 - 150 KSI		Ends L# Cc 69.6"*RHG 4/14 HAND * L/4" x 9	ntro 1859 <u>Tot</u> A * GA	l# Hea 3 NF122 al Shig LVANIZE	nt#(Serial 202713 NON 20261 =====	E => _ 14 E	Quantity 1.0 1.0
R711811400RHGA150 Line#: 100 HT# R71 - 150 KSI	Wind Bd: KSI ATB 2-1/4" X 3 Ship Date: 3/1 * RIGHT All-Thread Bar 2-3	Ends L# Cc 4/14 HAND * L/4" x 9 Ends L# Cc 6	ntro 1859 <u>Tot</u> * GA * GA * GA * 16" 01559 1859	l# Hea 3 NF122 al Shir LVANIZE *Right 1# Hea 7 NF12 9 NF100 0 NF111	nt#(Serial 202713 NON 20261 =====	14 E 14 E 14 E 1vani #) 16 16 16 16 16 16 16 16 16 16	Quantity 1.0 1.0
R711811400RHGAL50 Line#: 100 HT# R71 - 150 KSI 1'0" of Worka 1'0" of Worka R7218RH05 150 Line#: 300	Wind Bd KSI ATB 2-1/4" X 3 Ship Date: 3/1- * RIGHT All-Thread Bar 2-3 ble Thread On Both	Ends 1# Co 6 9*6**RHC 4/14 HAND * 1/4" x 9 Ends 1# Co 6 6 5,3.5D,9 4/14	x * GA * CA	l# Hea 3 NF122 al Shiy LVANIZE *Right 1# Hea 7 NF112 9 NF100 0 NF111 al Shiy	At#(Serial 202713 NON 202713 NON 202713 NON 202713 NON 202713 NON 202996 NON 202996 NON 202989 NON 202989 NON 202989 NON 202989 NON	$ \begin{array}{c} 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 $	Quantity 1.0 1.0 2.2 2.2 2.2 4.2 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0
R711811400RHGA150 Line#: 100 HT# R71 - 150 KSI 1'0" of Worka R7218RH05 150 Line#: 300 R72 - All-Thr	Wind Bd KSI ATB 2-1/4" X 3 Ship Date: 3/1 * RIGHT All-Thread Bar 2-3 ble Thread On Both Wind Bd Wind Bd KSI COUP 2-1/4"RHOM Ship Date: 3/14	Ends L# Cc 6 6 6 6 6 4/14 HAND * L/4" x 9 Ends L# Cc 6 6 5,3.5D,9 4/14 or 2-1/4 L# Cc	ontro 1859 <u>Tot</u> XA * GA * GA	<pre>l# Hea 3 NF122 al Shiy LVANIZE *Right 1# Hea 7 NF112 9 NF101 0 NF111 al Ship a. 150 1# Hea 6 MM131</pre>	At#(Serial 202713 NON 202713 NON 202713 NON 202713 NON 202713 NON 202996 NON 202996 NON 202989 NON 202989 NON 202989 NON 202989 NON	$ \begin{array}{c} \mathbf{E} \\ \mathbf{I} \\ \mathbf$	Quantity 1.0 1.0 2.2 2.2 2.2 4.2 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0

CONSTRUCTION

6.2.1 CONSTRUCTION INSPECTIONS



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

To:	Crown Castle
Subject:	Construction inspection
Site:	Newington 1 - 826217

December 4, 2014

Please be advised that all work was completed per drawings dated <u>10/03/2013 &</u> <u>10/17/2014</u> by B&T Group Engineering, in accordance with industry standards and contract documents including modification drawings and specifications, state and local regulations, OSHA, and engineering standards. On-site cold galvanizing was applied in accordance with Crown ENG-BUL-10149.

Please let me know if you have any questions.

Thank you,

Reith a. Stackhouse

Keith A. Stackhouse Structural Construction Manager LCC Deployment Services

6.2.2 FOUNDATION INSPECTIONS

Co	ncrete	Rebar	Inspecti	ion			Accurate 1	uformation y	iou can rety
Clie	nt:	LCC De	ployment S	ervices			Project	No.:	20
Proj	ect:	240 Ker	sington Ro	ad Tower	*****		Report	No.:	0
Date	:	October	27, 2014				Page No	o.:	1 o
Loca	ation:	Tower F	oundation 1	Modification S	Slab on Grad	e		64 60	ahrais
Insp	ector:	Curt Phi	llips					A A A A A A A A A A A A A A A A A A A	A LE LA
Perc	entage of	Complet Rebar:	ion at Time 100%	of Inspection:		ormwork:	100%	A RO.	Shalle
- 2.	Deficien Commer Record. Rebar qu Deficien Commer	zes, spaci cies: nts: #6, 180° s mality, clea cies: nts:	ng from eac Rebar was i tandard hoo nliness, rus	th other and fo nstalled per th ok bars were in st, grease, etc.:	ormwork: ne structural i nstalled as di : Rebar w	Rebar sizing drawings an escribed in a as clean.	g and spacir d direction in email by	from the E	ngineer of
- 2.	Deficien Commer Record. Rebar qu Deficien Commer Positioni Use of el	zes, spacin cies:	ng from eac Rebar was i tandard hoo unliness, rus war:	nstalled per th ok bars were in st, grease, etc.: par was accura upported by co	ormwork: ne structural in nstalled as do : Rebar w ately position oncrete brick	Rebar sizing drawings an escribed in a as clean. as clean.	g and spacin d direction in email by	from the E	ngineer of
- 2.	Deficien Commer <u>Record.</u> Rebar qu Deficien Commer Dositioni Use of cl Commer	zes, spacin cies:	ng from eac Rebar was i tandard hoo nliness, rus var: <u>Reb</u> Rebar was s	nstalled per th ok bars were in st, grease, etc.: par was accura upported by co	ormwork: ne structural of nstalled as do : Rebar w ately position oncrete brick	Rebar sizing drawings an escribed in a as clean. as clean.	g and spacin d direction in email by	from the E	ngineer of
- 2.	Deficien Commer Record. Rebar qu Deficien Commer Ositioni Use of el Commer Adequae Commer	zes, spacin cies:	ng from eac Rebar was i tandard hoo nliness, rus var: <u>Reb</u> Rebar was s tie offs: ce now?	nstalled per th ok bars were in st, grease, etc.: par was accura upported by ca	ormwork: ne structural of nstalled as do : Rebar w ately position oncrete brick roperly tied a	Rebar sizing drawings an escribed in a as clean. as clean.	g and spacir d direction in email by	from the E	ngineer of
2.	Deficien Commer Rebar qu Deficien Commer Positioni Use of el Commer Adequad Commer Are dow Masony Commer	zes, spacin cies:	ng from eac Rebar was i tandard hoo nliness, rus par: <u>Reb</u> Rebar was s tie offs: ce now? b Dowels, Ha	nstalled per th ok bars were in st, grease, etc.: oar was accura upported by ca Rebar was pr No:	ormwork: ne structural of nstalled as do : Rebar w ately position oncrete brick roperly tied a Piers	Rebar sizing drawings an escribed in a as clean. ned. c. und secure.	g and spacir d direction in email by	from the Ei the Engine	ngineer of er.

	Rebar splicing: <u>I</u> Diameter of laps: Is wiring adequate? Comments:	#5: 30".	erly lapped.			
		W /C/Bentonite:	'idth:	existing pier	Shape: foundation per Detail No	o. 3/S12.
•		Formwork Yes: Subgrade n	was clean. naterial was fi		X g water/mud. IMTL did y the Engineer of Record	
	Quality of formwork Trueness in 36": Plumbness in 36": Line Straightness: Bracing: Comments:	k: N/A Plumb Straight				
0	Formwork inside di Measure Dimension Comments:			s were accura	te.	
2	Is a follow-up inspe If so, for which item		just prior to	the concrete j	placement? <u>No</u>	
	List Discrepancies:					

Con				decurate injormation	you can rely or
	crete Reb:	ar Inspection			
Client	t: <u>LCC</u>	Deployment Services		Project No.:	2083
Projec	ot: 240 F	Kensington Road Tower		Report No .:	002
Date:	Octo	ber 23, 2014	_	Page No.:	1 of 3
Locati	ion: Towe	er Foundation Modification	ns Slab on Grade		
Inspec	ctor: Curt	Phillips			
Percer	ntage of Comr	oletion at Time of Inspectio	on:		
	Reba		Formwork	: 100%	
E C N	Deficiencies: Comments: Nos. S12 and S	acing from each other and The completed rehar in: 513. General completion is cord at 10" on center.	stalled to date was in ac	cordance with the details ok bars are needed as dir	
2. R 2. R 3. P	Deficiencies: Comments: Nos. S12 and S Engineer of Re	The completed rebar in: 313. General completion is cord at 10" on center. cleanliness, rust, grease, et	stalled to date was in ac needed. #6 standard ho c.: Rebar was clean. ere bedded for clearance	ok bars are needed as dir	rected by the
2. R 2. R 3. P 0 7	Deficiencies: Comments: Nos. S12 and S Engineer of Re Rebar quality, o Deficiencies: Comments: Positioning of D Jse of chairs:	The completed rebar in: 313. General completion is acord at 10" on center. cleanliness, rust, grease, et Rebar: Adjustments w Concrete brick was used irm tie offs:	stalled to date was in ac needed. #6 standard ho c.: Rebar was clean. ere bedded for clearance to support rebar.	ok bars are needed as dir	rected by the
2. R 2. R 3. P 3. 1 3.1 A 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Deficiencies: Comments: Nos. S12 and S Engineer of Re Rebar quality, o Deficiencies: Comments: Positioning of I Jse of chairs: Comments: Adequacy of fi Comments:	The completed rebar in: 313. General completion is cord at 10" on center. cleanliness, rust, grease, et 	stalled to date was in ac needed. #6 standard ho c.: Rebar was clean. ere bedded for clearance to support rebar. Yes: gh Piers stalled at the existing to	ok bars are needed as din esXN/A:	rected by the
2. R 2. R C 3. P C 3. P C 3. 1 A C 0 3.1 A 0 0	Deficiencies: Comments: Nos. S12 and S Engineer of Re Rebar quality, o Deficiencies: Comments: Positioning of D Jse of chairs: Comments: Adequacy of fi Comments: Are dowels in Masonry Dowels, Comments:	The completed rehar ins 13. General completion is scord at 10" on center. cleanliness, rust, grease, et Rebar: Adjustments w Concrete brick was used irm tie offs: N/A place now? No: , Slab Dowels, Hair-Pins Throug Epoxied dowels were ins these dowels was not ob:	stalled to date was in ac needed. #6 standard ho c.: Rebar was clean. ere bedded for clearance to support rebar. Yes: gh Piers stalled at the existing to	ok bars are needed as din esXN/A:	rected by the

240 Kensingto	n Road	Tower	
Project No .:		Report No .:	002
October 23, 20	014	Page No .:	2 of 3

- 4. Rebar splicing:
 Rebar was properly lapped.

 Diameter of laps:
 #5 bars at 30".

 Is wiring adequate?
 Yes

 Comments:
 Yes
- 6. General condition of forms in place: Satisfactory
 Cleanliness:
 Oiled: Yes: No:
 IMTL did not provide density testing of the subgrade material nor was it
 required by the Engineer of Record.
- Formwork inside dimensions, L, H, W. Measure Dimensions: Comments: Formwork is incomplete.
- 9. Is a follow-up inspection necessary just prior to the concrete placement? Yes If so, for which item numbers?
- 10. List Discrepancies: General completion of formwork and rebar is needed.

pc: Keith Stackhouse, Brenden Foster, LCC Deployment Services md

11/12/2014 1:39 PM	4 Page: 2 of 2	Uctober 23, 2014
	toad Tower Report N	240 Kensington Road Tower Project No: 2087 Report N
	Then'ts. All Abbunscieht, ELT, Project Engineer 	
Bedde Nev Kritica Borz, everyn ng dae konki prod. Junk ta rendron, jewi kostalle 3 10 bars, is the sourset? Tepologika fer trie Inconvenience.	Beside the vertical bars, evenything I appingize for the Inconvenience.	
nery. Therks for sending the photos. Exercise like we missed the vertical bear in the final drawings that I sent. Vin will need to vertical bear to ^o on center inside the outer hoop with standard 180 degree houts at the ends a below the detail the clean you an Conder 15 th and let me know if you will need christian on it.	Thanks for sending the photos. It as below the detail that term you are	
adahākār.co.om) 5 Met Laibi, Stadvirouss 1 Ave Burue, Jenny (Cuntractur)	er uns riskund Front Al Adoststehr (melles (A)Statadel (Bolzauskan) Sentt Thursfary, October 23, 2014 2 (2014) To: Overlung, Janes (Vendor) (2014 Tastries (Belth, Stadchouss Oct: Olymon, Jaeon (Vendor)): Tutle, Starky Bruno, Jeny (Contractor) Subject: RE: 838217 Newington	Truck
	(Coll) 609-557-5107 Sety Uculo Relifi_teckhouse@loc.com	Seby Urciule
	LCC Construction Sarviese 2500 SMpri Bivdi, Hainesport, NL 06036	All Mail
	Storic of Constructions Storic and Constructions Manager	Travel Leta Chals
	See below	Personal
	g As par our phone conversedori	CL&P
iyica come	Keitti_Saudihouse@co.com to me, Etenden IMTL, serimt, Cave Hello Cort,	Importen Sent Mall Drafts. (1)
×	3) FW: 826217 Newington Interv	Induox (503) Staired
als eensileets - 2 days app	The Official Google Blog - Doubhing down on Fibreh considence - 2 days app	compase
Click http://www.click.http://www.click.http://www.click.http://www.click.http://www.click.http://www.click.http://www.click.http://www.click.http://www.click.http://www.click.http://www.click.http://www.click.http://www.click.http://www.click.http://www.click.http://www.click.http://www.click.http://www.click.http://www.click.http://www.click.http://www.click.http://www.click.http://www.click.http://www.click.http://www.click.http://www.click.http://www.click.http://www.click.http://www.click.http://www.click.http://www.click.http://www.click.http://www.click.http://www.click.http://www.click.http://www.click.http://www.click.http://www.click.http://www.click.http://www.click.http://www.click.http://www.click.http://www.click.http://www.click.http://www.click.http://www.click.http://www.click.http://www.click.http://www.click.http://www.click.http://www.click.http://www.click.http://www.click.http://www.click.http://www.click.http://www.click.http://www.click.http://www.click.http://www.click.http://www.click.http://www.click.http://www.click.http://www.click.http://www.click.http://www.click.http://www.click.http://www.click.http://www.click.http://www.click.http://www.click.http://www.click.http://www.click.http://www.click.http://www.click.http://www.click.http://www.click.http://www.click.http://www.click.http://www.click.http://www.click.http://www.click.http://www.click.http://www.click.http://www.click.http://www.click.http://www.click.http://www.click.http://www.click.http://www.click.http://www.click.http://www.click.http://www.click.http://www.click.http://www.click.http://www.click.http://www.click.http://www.click.http://www.click.http://www.click.http://www.click.http://www.click.http://www.click.http://www.click.http://www.click.http://www.click.http://www.click.http://www.click.http://www.click.http://www.click.http://www.click.http://www.click.http://www.click.http://www.click.http://www.click.http://www.click.http://www.click.http://www.click.http://www.click.http://www.click.http://www.click.	haan ja	Ginal
https://mail.google.com/mail/u/0/#inbex	FW: 826217 Newington - cphillipsimtl@gmail.com - Gmail	FW: 826217 Newi

Accurate information you can rely on. REPORT OF CONCRETE INSPECTION Page 1 of 2 LCC Deployment Services PROJECT NO. : 2087 CLIENT : REPORT NO. : 0004 DATE CAST : 10/27/14 240 Kensington Rd. Tower PROJECT: CONTRACTOR: LCC CONCRETE SUPPLIER: Suzio LOCATION OF CONCRETE: Monopole Foundation DESIGN STRENGTH, PSI: 4,000 DAYS CURED IN FIELD: 1 CEMENT, LBS.: 6070 AMBIENT TEMPERATURE: 53 INSPECTOR: Shawn Greenlaw FINE AGGREGATE, LBS: 14100 @ 4.2% MC COARSE AGGREGATE, LBS: See Note 04 SPECIMEN SIZE: Standard 6" X 12" SPEC AREA APPROX: 28,27 sq. in. WATER, GALLONS: 277 ADMIXTURE: Poly997-501; AEA-35 SPECIMEN COND: Satisfactory Test methods used if shown: ASTM C-31, C-39, C-143, C-173 or C-231, C-1054. TRUCK TIME TIME START TIME END TOT TIME SLUMP CUBIC CONC. AIR SET NOTE NO. BATCHED DISCHARGE DISCHARGE MINUTES INCHES YARDS TEMP. § # 0162 12:06 10.0 65 6.4 a. 12:45 01:00 54 5.50

 Independent Materials Testing Laboratories, Inc.
 T 860.747.1000
 mail@imtlct.com

 57 N. Washington St., PO. Box 745, Plainville, CT 06062
 F 860.747.6455
 www.imtlct.com

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The second	-		100
Page	- 2	of	1

REFORT NO.: 0004

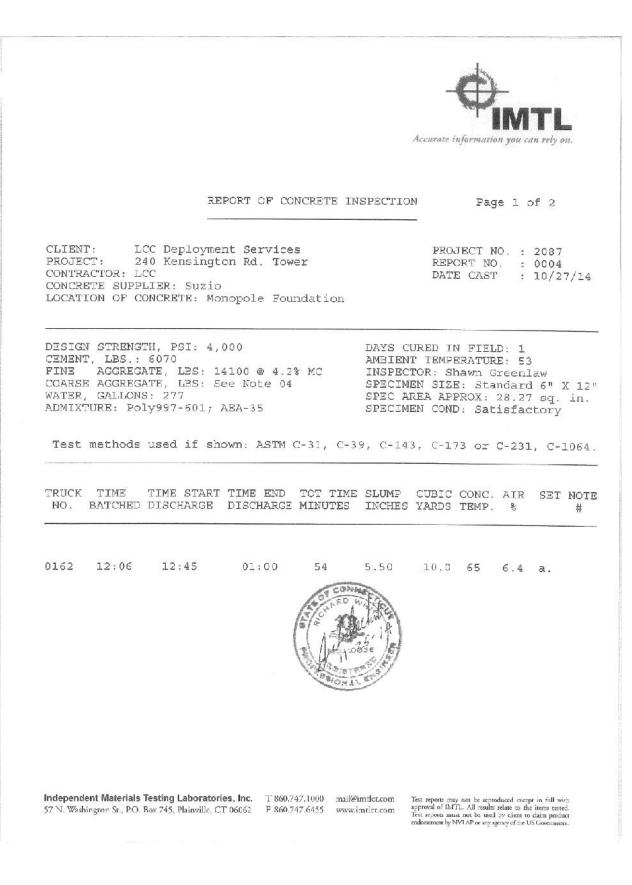
SET		AGE, DAYS	DATE DUE	TOTAL LOAD	UNIT LOAD PSI					WEIGHT POUNDS
a.	270151	7	11/03/14	86,750	3,050	5.50	6.4	65	5	28.7
	270152	28	11/24/14			5.50	6.4	65		
	270153	28	11/24/14			5.50	6.4	65		
	270154	s				5.50	6.4	65		

NOTES:

01 pc: Keith Stackhouse, LCC Deployment Services / Brenden Foster 02 bh

02 5/1
03 Cylinder Info: Cylinders were stored in a curing box; Min/Max
Temperatures: 64/71F. 11/03/14 - 28.46 square inches, 6.02"
04 3/4-23020; 1/2-27580; 3/8-32060

05 Syl=195029, 172 17507, 570 17500, 570 17500 05 Concrete placed via chute & consolidated with a vibrator. First truck arrived at 12:45. Trucks were visually monitored for consistency throughout the entire concrete placement. Truck Ticket No. 160486; Mix No. 400080



Page 2 of 2

REPORT NO.: 0004

SET	LAB NC.	AGE, DAYS	DATE DUE	TOTAL LOAD	UNIT LOAD PSI	SLUMP, INCHES				WEIGHT POUNDS
a .	270151	7	11/03/14	86,750	3,050	5.50	6.4	65	5	28.7
	270152	28	11/24/14	114,500	4,040	5.50	6.4	65	5	
	270153			115,000	4,060	5.50	6.4	65	5	
	270154	s				5.50	6.4	65		

NOTES :

01 pc: Keith Stackhouse, LCC Deployment Services / Brenden Foster

02 bh

O2 Dil O3 Cylinder Info: Cylinders were stored in a curing box; Min/Max Temperatures: 64/71F. 11/03/14 - 28.46 square inches, 6.02" 04 3/4-23020; 1/2-27580; 3/8-32060

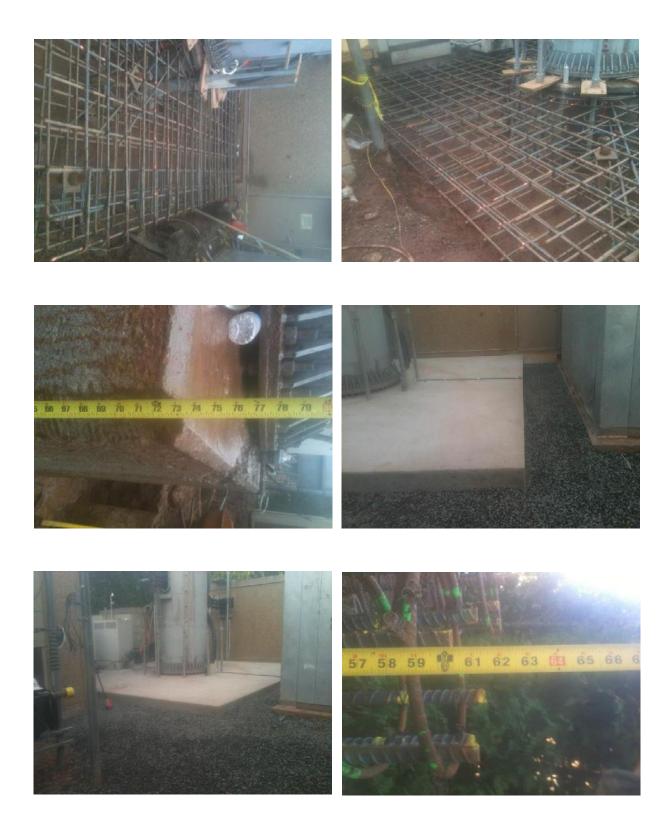
05 Concrete placed via chute & consolidated with a vibrator. First truck arrived at 12:45. Trucks were visually monitored for consistency throughout the entire concrete placement. Truck Ticket No. 160486; Mix No. 400080



Concrete Curing Report

Concrete Cur	mg report				
Client: Project: Inspector: Concrete Location:	LCC Deploymen 240 Kensington I Shawn Greenlaw Monopole Found	Road Tower		Project No.: Report No: Today's Date: Date Cast:	2087 004-CC 10/28/14 10/27/14
Current Weather	Conditions Today:	Fair, 65°F			
Concrete Curing F	leferences:				
Job Sp ACI 30 ACI 30	6 Cold	X ACI 308 Approve		ractor Submittal	
Curing Used, Che	ck Appropriate Meth	iod:			
X None Obs	erved			Brand Name	
Wet Curin	ng			Plastic	
Blankets				Hcatcd Area	
	writer spoke with Keir overed with poly.	th Stackhouse i	regardii	ng curing and suggested t	he placement
				star perce	O COMING
pe: Keith Stackhouse md independent Materials Te 57 N. Washington Sc. P.O. Br		rices T 860.747.1000 F 860.747.6455			eproduced except in full with ults relate to the items rested.





From:	Ali Abbaszadeh <aabbaszadeh@btgrp.com></aabbaszadeh@btgrp.com>
Sent:	Friday, December 12, 2014 5:09 PM
To:	Keith_ Stackhouse
Cc:	ModInspections; Bruno, Jerry (Contractor); Donahue, James (Vendor); SGS PMI; Iccmods
Subject:	RE: Newington 1 - 826217 - project#87581.005.01 - EOR approvals

Keith,

If the inspector confirms that all installations were according to the drawings and have no problem with the installation, we don't have an issue either. I am not sure what we can approve if we haven't seen anything here. This is honestly on the inspector and not us, as we are not part of the inspection. We will only come into the picture if there is any deviation from the design and we can look into approving the changes. Otherwise, inspector is the one to give you final approval here.



From: Keith_Stackhouse [mailto:keith_stackhouse@lcc.com]
Sent: Friday, December 12, 2014 3:36 PM
To: Ali Abbaszadeh
Cc: ModInspections; Bruno, Jerry (Contractor); Donahue, James (Vendor); SGS PMI; lccmods
Subject: RE: Newington 1 - 826217 - project#87581.005.01 - EOR approvals

Hello Ali,

The inspector was on site during the placement of the concrete; I need a waiver for not having pictures of the concrete going in the hole; for the MI inspector to accept the foundation report.

Thanks,

Keith A. Stackhouse

6.2.3 CONCRETE COMP. STRENGTH AND SLUMP TESTS

See Section 6.2.2 Foundation Inspection.

6.2.4 POST INSTALLED ANCHOR ROD VERIFICATION







6.2.5 BASE PLATE GROUT VERIFICATION



6.2.6 CONTRACTOR'S CERTIFIED WELD INSPECTION

Quality Nondestructive Testing Solutions

11017 Mt. Charron Rd., NW Huntsville, AL 35810

Phone: (256) 425-8975 daniel.irons11@att.net

December 10, 2014

Mr. Keith Stackhouse LCC Deployment Services, Inc. 2500 Sylon Boulevard Hainesport, New Jersey 08036

Subject: ATG Project No. 072-14, Final Examination Report, Monopole Reinforcement and Retrofit Project, Newington_1, BU# 826217, 240 Kensington Road, Berlin, Connecticut 06037

Dear Mr. Stackhouse:

We are pleased to submit two copies of our Final Examination Report for the above referenced project. These services were provided in accordance with our Master Subcontract Agreement dated June 20, 2014. We proceeded with our services based on both your purchase order and email authorization.

SCOPE OF SERVICES

We have reviewed or observed the pre, during, and post welding operations, and accomplished a 100% ultrasonic (UT) examination of the available base plate-to-pole shaft circumferential weld, a 100% visual (VT) and 50% magnetic particle (MT) examination of the ten new anchor bracket assembly and base plate extension welds, a 100% VT and 100% MT of the ten fabricated anchor bracket tube-to-plate welds, and a 100% VT and 50% MT test of the existing base plate welded connections, to evaluate their conformance with the applicable code requirements, project plans, and specifications.

The following services have not been provided by our firm: surveying for line and grade, cost estimates, review of design and contract documents, tests of material other than structural steel, and professional services not discussed herein.

WELDING, VISUAL MAGNETIC PARTICLE, AND ULTRASONIC OBSERVATIONS

AWS/Certified Welding Inspector and NDE II/III Technician personnel from our office reviewed or observed the pre, during, and post welding operations. We also accomplished a UT examination of the available base plate-to-pole shaft circumferential weld, a VT and MT examination of the ten new anchor bracket assembly and base plate extension welds, a VT and MT of the ten fabricated anchor bracket tube-to-plate welds, and a VT and MT test of the existing base plate welded connections, at the site between September 28, 2014 and December 08, 2014. The plans used were those prepared by the B & t Group, dated October 03 2013, and last updated on December 1, 2014.

WELDING, VISUAL, MAGNETIC PARTICLE, AND ULTRASONIC OBSERVATION RESULTS

The pre, during, and post welding operations, and the UT examination of the available base plate-to-pole shaft circumferential weld, the VT and MT examination of the ten new anchor bracket assembly and base

"Exceeding Client Quality Expectations Every Day" Nondestructive Testing * Physical Testing * Construction Monitoring * QA/QC Consulting * Project Management



Nondestructive Testing Qualification and Certification Record

This is to certify that:

Name: Daniel Irons

Social Security Number: 6010

Fully meets the requirements of ATG-NDE-QC-PQ-1 and is hereby certified in the method and the qualification level shown below:

NDT Method: PT

Certification Level : III

Date of Certification: 03/15/2011

Certification Expiration Date: 03/14/2016

Test Scores:

Test	Grade	Administered By	Remarks
Basic:	90.0	T. Munson, P.E.	
Method:	88.0	T. Munson, P.E.	
Specific:	92.0	T. Munson, P.E.	
Practical	92.0	T. Munson, P.E.	
Composite:	90.5		

Limitations: Visible Solvent Dye, Visible & Fluorescent Water Washable, Visible & Fluorescent Solvent Dye

Recommended for certification by:	Thomas	3 Munio	⁻ , P.E.	Date:	03/15/2011
	the second s	ofessional ASNT NDT NT File Number 9295			

Certified by

1

The 3 mun .P.E.

Corporate Professional ASNT NDT Level III ASNT File Number 9295 Date: 03/15/2011



Nondestructive Testing Qualification and Certification Record

This is to certify that:

Name: Daniel Irons

Social Security Number: 6010

Fully meets the requirements of ATG-NDE-QC-PQ-1 and is hereby certified in the method and the qualification level shown below:

NDT Method: RT

Certification Level : III

Date of Certification: 03/15/2011

Certification Expiration Date: 03/14/2016

Test Scores:

Test	Grade	Administered By	Remarks
Basic:	90.0	T. Munson, P.E.	
Method:	90.0	T. Munson, P.E.	
Specific:	94.0	T. Munson, P.E.	
Practical	96.0	T. Munson, P.E.	
Composite:	92.5		

Limitations: Conventional Film, Digital, Computed, Neutron

Recommended for Chomen 3 Manual, P.E. Date: 03/15/2011 Corporate Professional ASNT NDT Level III ASNT File Number 9295

re. 3 M , P.E.

Certified by

Corporate Professional ASNT NDT Level III ASNT File Number 9295 Date: 03/15/2011



Nondestructive Testing Qualification and Certification Record

This is to certify that:

Name: Daniel Irons

Social Security Number: 6010

Fully meets the requirements of ATG-NDE-QC-PQ-1 and is hereby certified in the method and the qualification level shown below:

NDT Method: MT

Certification Level : III

Date of Certification: 03/14/2011

Certification Expiration Date: 03/13/2011

Test Scores:

Test	Grade	Administered By	Remarks
Basic:	90.0	T. Munson, P.E.	
Method:	88.0	T. Munson, P.E.	
Specific:	96.0	T. Munson, P.E.	
Practical	90.0	T. Munson, P.E.	
Composite:	91.0	1.1.1	

Limitations: Visible Dry, Fluorescent Wet

Recommended for certification by:	Thomas 3 Munia, P.E.	Date: 03/14/2011
	Corporate Professional ASNT NDT Level III ASNT File Number 9295	
Certified by :	-Thomas 3 Munion , P.E.	Date: 03/14/2011
	Corporate Professional ASNT NDT Level III ASNT File Number 9295	



Nondestructive Testing Qualification and Certification Record

This is to certify that:

Name: Daniel Irons

Social Security Number: 6010

Fully meets the requirements of ATG-NDE-QC-PQ-1 and is hereby certified in the method and the qualification level shown below:

NDT Method: BT

Certification Level : III

Date of Certification: 03/17/2011

Certification Expiration Date: 03/16/2016

.

Test Scores:

Test	Grade	Administered By	Remarks
Basic:	90.0	T. Munson, P.E.	
Method:	96.0	T. Munson, P.E.	
Specific:	96.0	T. Munson, P.E.	
Practical	92.0	T. Munson, P.E.	
Composite:	93.5		

Limitations: Bubble Leak

:

Recommended for certification by:	Thomas	3 Muna, P.E.	Date:	03/17/2011
	the set is a subset of the set of the set of the	Professional ASNT NDT Level III SNT File Number 9295		

Certified by

Thomas 3 Munon , P.E.

Date: 03/17/2011

Corporate Professional ASNT NDT Level III ASNT File Number 9295



Nondestructive Testing Qualification and Certification Record

This is to certify that:

Name: Daniel Irons

Social Security Number: 6010

Fully meets the requirements of ATG-NDE-QC-PQ-1 and is hereby certified in the method and the gualification level shown below:

NDT Method: UT

Certification Level : III

Date of Certification: 03/14/2011

Certification Expiration Date: 03/13/2016

Test Scores:

Test	Grade	Administered By	Remarks
Basic:	90.0	T. Munson, P.E.	
Method:	92.0	T. Munson, P.E.	
Specific:	96.0	T. Munson, P.E.	
Practical	92.0	T. Munson, P.E.	
Composite:	92.5		

Limitations: Contact, Immersion, Air Coupled

Recommended for Chromes & Manua, P.E. Date: 03/14/2011 Corporate Professional ASNT NDT Level III ASNT File Number 9295

Certified by

:

Thomas 3 Munon , P.E.

Date: 03/14/2011

Corporate Professional ASNT NDT Level III ASNT File Number 9295



VISUAL ACUITY RECORD

	LE	FT	RIC	GHT
	Jaeger #	Distance	Jaeger #	Distance
UNCORRECTED				
CORRECTED	J-2	12°	J-2	12"
FAR VISION: Requ	uired: 🛛	Not Require	d: 🗌	
	L	FT	RI	GHT
UNCORRECTED				
CORRECTED	FERENTIATION:		NOT REQUIR	8ED
CORRECTED	FERENTIATION:	REQUIRED 🛛 PASS 🖾		
CORRECTED COLOR CONTRAST DIF PSEUDO ISOCHROMAT	FERENTIATION: FIC PLATES:	REQUIRED 🛛 PASS 🖾		



Personnel Testing Education, Training and Experience Record

WORK EXPERIENCE

Test Method	Level	Company	Total Months Exp.
Visual Testing	11	Applied Testing Group, LLC	41
	11	Mistras Services, Inc.	36
	11	Schnabel Engineering	44
	CWI	American Welding Society	181
Magnetic Particle		Applied Testing Group, LLC	42
	11	Mistras Services, Inc.	24
	11	Schnabel Engineering	22
			34
Liquid Penetrant	11	Applied Testing Group, LLC Mistras Services, Inc.	24
		Schnabel Engineering	40
	<u> </u>		
Radiographic	1	Mistras Services, Inc.	9
	11	Schnabel Engineering	14



Personnel Testing Education, Training and Experience Record

Name: Lloyd J. Harper	Signature:" J.D. Ider
Date of Birth: 06/10/1956	Date of Employment: 11/24/03

Training and Experience Through: July 1, 2014

The information provided is accurate and true to the best of my knowledge.

EDUCATION

School	Location	Date Graduated	Degree/Major
Varina High School	Varina, VA	1984	Diploma/General Studies

CLASSROOM TRAINING

Subject	Training Hours	Dates Completed	Source/ Company
Liquid Penetrant Level I & II	40	2003	Schnabel
Magnetic Particle Level I & II	40	2002	Schnabel
Radiation Safety/Level I	49	2002	E. I. Dupont
Visual Testing – AWS	40	1993	AWS
Fundamental of Weld Engineering	40	1994	Ohio State U.
Liquid Penetrant Level I	12	1996	ASNT



Nondestructive Testing Qualification and Certification Record

This is to certify that:

Name: Lloyd J. Harper

Social Security Number: 9716

fully meets the requirements of NDE-QC-PQ-1 and is hereby certified in the method and the qualification level shown below:

NDT Method: Visual

Certification Level : II

Date of Certification: 01/12/14

Certification Expiration Date: 02/26/2017

Test Scores:

Test	Grade	Administered By	Remarks
General:	95.0	T. Munson	
Specific:	100.0	T. Munson	
Practical	100.0	T. Munson	AWS-CWI
Composite:	98.3		and the second

Recommended for certification by:	Thomas	3 Munion	Date:	01/10/14
a definition of the second	Corporate Pr	ofessional ASNT NOT Level III		

Corporate Professional ASNT NDT Level III ASNT File Number 9295

 \subset

Certified by

:

Date: 01/12/14

NDE Manager



Nondestructive Testing Qualification and Certification Record

This is to certify that:

Name: Lloyd J. Harper

Social Security Number: 9716

fully meets the requirements of NDE-QC-PQ-1 and is hereby certified in the method and the qualification level shown below:

NDT Method: Liquid Penetrant

Certification Level : II

Date of Certification: 06/21/2014

Certification Expiration Date: 06/21/2017

Test Scores:

Certified by

2

Test	Grade	Administered By	Remarks
General:	90.0	T. Munson	
Specific:	95.0	T. Munson	
Practical	95.0	T. Munson	
Composite:	96.3		

Recommended for certification by:	Thomas	3 Munion	Date:	06/20/2014
and the second second second	Corporate Pr	ofessional ASNT NDT Level III		

ASNT File Number 9295

Daniel la

Date: 06/21/2014

NDE Manager



Nondestructive Testing Qualification and Certification Record

This is to certify that:

Name: Lloyd J. Harper

Social Security Number: 9716

fully meets the requirements of NDE-QC-PQ-1 and is hereby certified in the method and the qualification level shown below:

NDT Method: Magnetic Particle

Certification Level : II

Date of Certification: 06/28/14

Certification Expiration Date: 06/28/2017

Test Scores:

Test	Grade	Administered By	Remarks
General:	85.0	T. Munson	
Specific:	95.0	T. Munson	
Practical	95.0	T. Munson	
Composite:	91.6		

Limitations: None

Recommended for certification by:

Corporate Professional ASNT NDT Level III ASNT File Number 9295

Certified by

:

Date: 06/28/14

NDE Manager



VISUAL ACUITY RECORD

Ja UNCORRECTED CORRECTED FAR VISION: Required: UNCORRECTED CORRECTED COLOR CONTRAST DIFFERENT	eger # J-2 LEFT 20/20		Jaege J-2 ed: 🛛		Distance 12"
CORRECTED FAR VISION: Required: UNCORRECTED CORRECTED	LEFT	Not Requir			
FAR VISION: Required:	LEFT	Not Requir			
UNCORRECTED CORRECTED			ed: 🛛	RIGHT	
CORRECTED				RIGHT	
CORRECTED	20/20				
	20/20				
				20/20	_
PSEUDO ISOCHROMATIC PLATE BRIGHTNESS DISCRIMINATION:			FAIL		
Restrictions: <u>None</u> Corrective Lenses Required: Yes 🛛	No:				

Certification Search

1/22/2014

Certification QuikCheck



AWS's Free Online Certification Verification Service

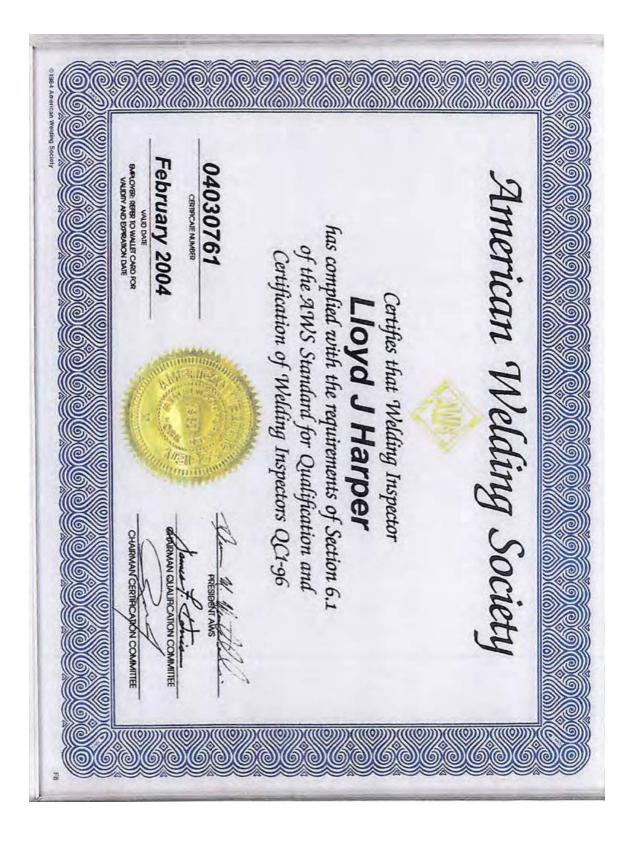
Please enter a Certification number below, along with the last name of the inspector. This number can be found on a wallet card or wall certificate produced by the

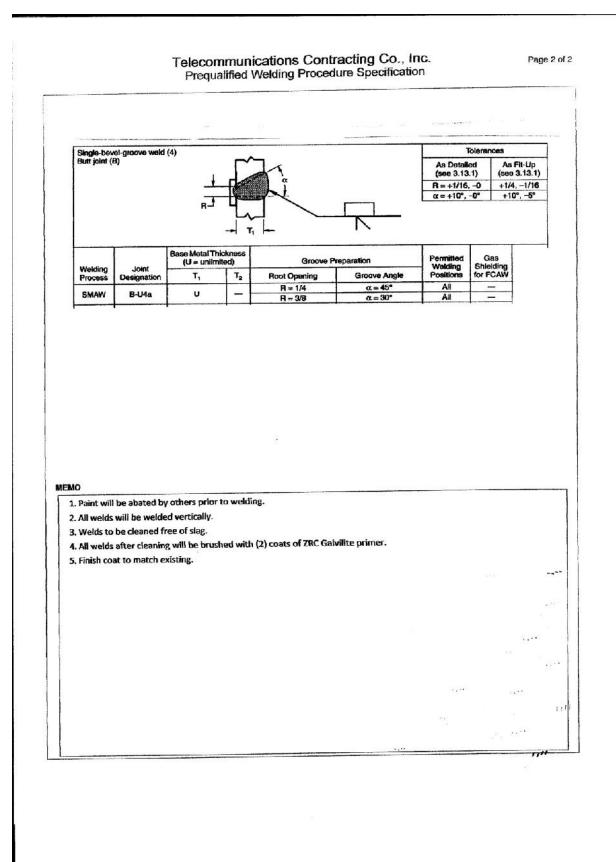
inspector. The search will return the certification number, a name, and an expiration date for that individual.

Cert. No.	Name	Expiration	Cert. Description
04030761	Lloyd J Harper	March 1, 2016	Certified Welding Inspector
Certification r	umber 04030761		
Las	t name harper		
	Go		
	y, you may search using	the individual's information	on to view all certifications (all fields are
Alternatively required):	y, you may search using Last Name	the individual's information	on to view all certifications (all fields are
required):	· · · · ·	the individual's information	on to view all certifications (all fields are
required): First Name	Last Name		on to view all certifications (all fields are ect birth day- •

AWS strongly suggests that the certification identity be verified with a government issued photo identification card, such as a driver's license.

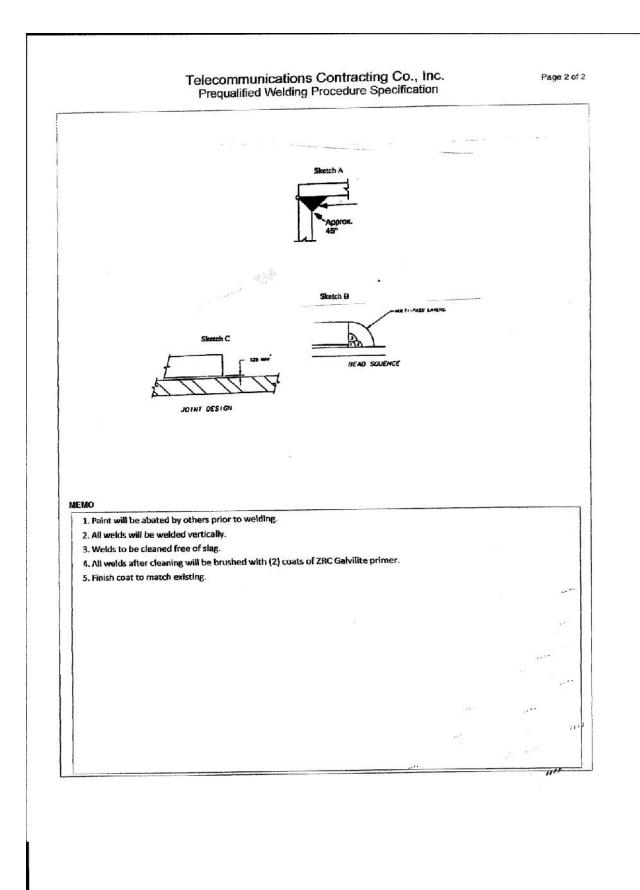
Key
1 = CWI
2 = CAWI eligible for upgrade*
3 = cwi by upgrade*
4 = CAWI
5 = CWI through CWSIP
7 = CWI through Reciprocity
8 = SCWI
E = CWE
G = CWENG





	·				
WPS No. 010 TCCI - D1.1 - BU4a Revisio	0 10	Date 11/12/0	9 By	Michael whelan	
Authorized By Tom Roberts	Date 1	1/13/09	Pre	equalified 🔳	
Welding Process(es) SMAW		Type: Ma	nual 🗎 Ma	achine 🗌 Semi	-Auto 📋 Auto
Supporting PQR(s) N/A PreQualified				Mariana Malana	
JOINT Type B-U4a Single Bevel Groove					
Backing Yes 🗐 No 📋 Single Weld 🗐 I Backing Material A572	Double Weld 📋				
Root Opening 1/4" Root Face Dimensi	ion 0				
	N/A		Pregua	lifed Joint Para	meters:
Back Gouge Yes 🛛 No 🔳					
Method			See Pa	ige 2	
BASE METALS	=	POSITION			t and the second
Material Spec. A572 to A	572	Position of	Groove H	orizontal Fil	let Horizontal
	50	Vertical Pro	ogression:	🗐 Up 🗌	Down
Thickness: Groove (in)		ELECTRICA			
Fillet (in) Diameter (Pipe, in) N/A -		6 watercourse	ode (GMAW		-
			-Circuiting		Spray 🗆
FILLER METALS			AC D	EP 🗐 DCEN 🛛] Pulsed []
AWS Specification AWS A5.5		Other Tungsten F	Electrode (G1	CAW).	
AWS Classification E8018-C3		Size	N/A	Type N/A	
		TECHNIQUE	:		
SHIELDING			Weave Bead	Stringer	
Flux Gas - N/A Composition -		Multi-pass	or Single Pas	ss (per side)	Multi-pass
Electrode-Flux (Class) Flow Rate -		Number of	Electrodes	1	
N/A Gas Cup Size -		Electrode S	Spacing: Lon	igitudinal	N/A
PREHEAT	and the second second	1		Lateral	N/A
Preheat Temp., Min. 150 F Per AWS Table 3.2 Category	rC			Angle	N/A N/A
Thickness Up to 3/4" Temperature		Peening	be to Work D None	Jistance	N/A
Over 3/4" to 1-1/2"	50 F	Interpass C		Vire Brush, Chip, or	Grind
Over 1-1/2" to 2-1/2"					
Over 2-1/2"		POSTWELD	N/A		T Required 🗀
Interpass Temp., Min. 150 F Max. 30		Temp.	INVA	Time	
Lawar/Pase Process Eiller Matel Class Diam		PROCEDURE	Volts	Travel Speed	Other Notes
Layer/Pass Process Filler Metal Class Diam			vuns	Travel Speed	Other Notes
1-2 SMAW E8018 1/8 3-n SMAW E8018 5/3		110 - 140		6 -10 ipm	1
3-n SMAW E8018 5/3;	. USEF	150 - 187	·····	8 -11 ipm	• • • • •
8 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			йн тэм	1	
	· · · · · · · · · · · · · · · · · · ·		teres a		and the second sec
	141 225				

Welding Procedure Spe	ecification
WPS No. 6 TCCI - D1.1 - All Fillets Revision 0 Authorized By Tom Roberts Date 1 Welding Process(es) SMAW Supporting PQR(s) N/A ProQualified	Date By 11/10/09 Prequalified II Type: Manual II Mashine I Semi-Auto I
JOINT Type Lapped/Inside Comer 1/8" to 5/8" Fillet Welds Backing Yes ⊠ No ■ Single Weld ■ Double Weld □ Backing Material A572 Root Opening 0 Root Face Dimension 0 Groove Angle 0 Radius (J-U) 0 Back Gouge Yes ⊠ No ■	Prequalifed Joint Parameters: See Page 2
Method N/A BASE METALS Material Spec. A572 to Per Table 3.1	POSITION Position of Groove N/A Fillet Vertical Up
Type or Grade Any Group II to Any Group II or III Thickness: Groove (in) N/A - Fillet (in) Various - Diameter (Pipe, in) N/A -	Vertical Progression: I Up Down ELECTRICAL CHARACTERISTICS Transfer Mode (GMAW): Short-Circuiting Globular Spray D
FILLER METALS AWS Specification AWS A5.1 AWS Classification E7018	Current: AC DCEP DCEN Pulsed Other Other
SHIELDING Flux Gas N/A Composition Electrode-Flux (Class) Flow Rate N/A Gas Cup Size	TECHNIQUE Stringer or Weave Bead Stringer Multi-pass or Single Pass (per side) Multi-pass Number of Electrodes 1 Electrode Spacing: Longitudinal N/A
PREHEAT Preheat Temp., Min. Per AWS Table 3.2 Category B Thickness Up to 3/4" Temperature < 32 F - 70 F	Lateral N/A Angle N/A Contact Tube to Work Distance N/A Peening None Interpass Cleaning Wire Brush, Chip, or Grind
Over 1-1/2" to 2-1/2" 150 F Over 2-1/2" 225 F Interpass Temp., Min. Max.	POSTWELD HEAT TREATMENT PWHT Required Temp. N/A Time
	PROCEDURE
Layer/Pass Process Filler Metal Class Diameter Cur. Type A 1-n SMAW E7018 1/8" DCEP	Amps or WFS Volts Travel Speed Other Notes 75 - 130 18-26 6 - 10 ipm
	a a contra de la Companya de Contra de Co



ame Turner, Tarry	_Identification No_3245	te 11/16/2013
elding Procedure Specification No. 031	Kev Q Va	W.L.D.LX/EX.XV
	Record Actual Values Used in Qualification	Qualification Range
	Used in columneation	
ariable		
rocess/Type	SMAW	
lectrode (single or multiple)	Single DCEP	
urrent/Polarity		
osition	4-G	
Weld Progression	N/A	
	Yes ASTM A-148-73	
lanking (YES or NO) Material/Spec.	ASTM A-148-73 to ASTM A-148-73	State of the state
	sector T in fraction of the sector of the se	
Thickness: (Plate)		1/8" To Unlimited
Groove	_1"	
Fillet Thickness: (Pipe/tube) MARVIII L TYLER	11	
Groove	<u>N/A</u>	
Fillet	N/A	
Diameter: (Pipe) Groove	N/A	
Filtet	N/A	
iller Metal		
Spec No.	ANSI/AWS A5-1 E11018	
Class F-No. IA .	F=4	
Sas/Flux Type MAA DJ	NVA	
Other III - III	V	
unover a ro	MISHAL INSPECTION	
	VISUAL INSPECTION	
	VISUAL INSPECTION	
	cceptable YES or NO YES	
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	cceptable YES or NO YES	Result
Type Result	cceptable YES or NO YES	Result
Type Result	cceptable YES or NO YES	Result
Type Result Side Bend (2) Satisfactory	Comparison NO YES Guided Bend Test Results Type	Result
Type Result Side Bend (2) Satisfactory	Compable YES or NO YES Guided Bend Test Results Type Type FILLET TEST RESULTS Fillet Size N/A	Result
Type Result Side Bend (2) Satisfactory Appearance N/A Fracture Test Pool Penetration N/A	Compable YES or NO_YES Guided Bend Test Results Type FILLET TEST RESULTS Fillet Size_N/A Macroetch_N/A	Result
Type Result Side Bend (2) Satisfactory Appearance N/A Fracture Test Root Penetration N/A	Compable YES or NO_YES Guided Bend Test Results Type FILLET TEST RESULTS Fillet Size N/A Macroetch N/A ck or tearing of the specimen)	Result
Type Result Side Bend (2) Satisfactory Appearance <u>N/A</u> Fracture Test Root Penetration <u>N/A</u> [Describe the location, nature, and size of any cracked structure for the location of the location	Comparison NO_YES Guided Bend Test Results Type FILLET TEST RESULTS Fillet Size N/A Macroetch N/A Sk or tearing of the specimen)	
Type Result Side Bend (2) Satisfactory Appearance N/A Fracture Test Root Penetration N/A Describe the location, nature, and size of any crac nspected by Marvin L. Tyler (AWS-CWI) #94070	Comparison NO_YES Guided Bend Test Results Type FILLET TEST RESULTS Fillet Size N/A Macroetch N/A Sk or tearing of the specimen) 0891 Test Number_019	
Type Result Side Bend (2) Satisfactory Appearance N/A N/A Fracture Test Root Penetration N/A (Describe the location, nature, and size of any craction N/A	Comparison NO_YES Guided Bend Test Results Type FILLET TEST RESULTS Fillet Size N/A Macroetch N/A Sk or tearing of the specimen) 0891 Test Number_019	
Type Result Side Bend (2) Satisfactory Appearance N/A	Comparison NO_YES Guided Bend Test Results Type FILLET TEST RESULTS Fillet Size N/A Macroetch N/A Sk or tearing of the specimen) 0891 Test Number_019 Date11/16/2013	
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Type Result Side Bend (2) Satisfactory Appearance N/A Fracture Test Root Penetration N/A Describe the location, nature, and size of any cract Inspected by Marvin L. Tyler (AWS-CWI) #94070 Organization TYLER ASSOCIATES, INC. I Film	Comparison NO_YES Guided Bend Test Results Type FILLET TEST RESULTS Fillet Size N/A Macroetch N/A Macroetch N/A Sk or tearing of the specimen) DB91 Test Number019 Date11/16/2013 RADIOGRAPHIC TEST RESULTS Film	
Type Result Side Bend (2) Satisfactory Appearance N/A Fracture Test Root Penetration N/A Describe the location, nature, and size of any craction N/A Inspected by Marvin L. Tyter (AWS-CWI) #94070 Organization TYLER ASSOCIATES, INC. Film I Film I Identification Result	Comparison NO_YES Guided Bend Test Results Type FILLET TEST RESULTS Fillet Size N/A Macroetch N/A Macroetch N/A Sk or tearing of the specimen) DB91 Test Number019 Date11/16/2013 RADIOGRAPHIC TEST RESULTS Film	
Type Result Side Bend (2) Satisfactory Appearance N/A Fracture Test Roof Penetration N/A Describe the location, nature, and size of any cract Inspected by Marvin L. Tyter (AWS-CWI) #94070 Organization TYLER ASSOCIATES, INC. Film I Identification Result Number Remark	Comparison of the speciment) Comparison of the speciment) Comparison of the speciment Comparison of	
Type Result Side Bend (2) Satisfactory Appearance N/A Fracture Test Root Penetration N/A Describe the location, nature, and size of any craction N/A Describe the location, nature, and size of any craction Size of any cractic structure Inspected by Marvin L. Tyter (AWS-CWI) #94070 Organization TYLER ASSOCIATES, INC. Film Identification Identification Result RADIOGRAPHIC TEST N/A	Comparison of the speciment of the speci	Result Remarks
Type Result Side Bend (2) Satisfactory Appearance N/A Fracture Test Root Penetration N/A Describe the location, nature, and size of any craction Inspected by Marvin L. Tyter (AWS-CWI) #94070 Organization TYLER ASSOCIATES, INC. Film Identification RADIOGRAPHIC TEST N/A	Comparison of the speciment of the speci	Result Remarks
Type Result Side Bend (2) Satisfactory Appearance N/A Fracture Test Root Penetration N/A Describe the location, nature, and size of any craction N/A Inspected by Marvin L. Tyter (AWS-CWI) #94070 Organization TYLER ASSOCIATES, INC. Film Identification Identification Result RADIOGRAPHIC TEST N/A	Comparison of the speciment of the speci	Result Remarks

WELDER, WELDING OPERATOR OR TACK WELDER QUALIFICATION TEST RECORD

Manufacturer or contractor: <u>Tyler Welding Lab. 110 Fairchild Downs Place, Cary, NC 27513 (919) 367-8872</u> tyweld@junc.com Authorized by: <u>Marvin Tyler (Welding Engineer & AWS GC-1 CWI) Certified Welding Inspector</u> Date <u>11/16/2013</u>

me_Turner, TarryIdentific	ation No <u>3241</u> Rev 0 Da	te 11/16/2013
elding Procedure Specification No. 031		
	Record Actual Values	
	Used in Qualification	Qualification Range
	Used in Guanication	a a a a a a a a a a a a a a a a a a a
and the lat		
ariable rocess/Type	SMAW	
lectrode (single or multiple)	Single	
purrent/Polarity	DCEP	
and an and a second		
osition	3-G	
Weld Progression	Ventical-Up	and the design of the second s
anking (YES or NO)	Yes ASTM A-148-73	
Aaterial/Spec.	ASTM A-148-73 to ASTM A-148-73	
lase Metal		
Thickness: (Plate)		a serie series in the first face of
Groove	1*	1/8" To Unlimited
Fillet		• •
Thickness: (Pipe/tube)	N/A	
Groove	N/A	
Fillet Diameter: (Pipe)	a contract of the second se	
Groove MARVAUL TALS	<u>N/A</u>	
Fillet 94070891	N/A	
iller Metal		
Spec. No.	ANSI/AWS A5-1 E11018	
Class 10 of	 F-4	
E-NO. Sass/Flux Type VM , PTO	N/A	
	philipping party	
Dener Jawin J. Jux	hu	
peter Jawin r. syx	VISUAL INSPECTION	panya ana ana 1400 ang pang
peter Jawin r. syx	hu	
Accept	VISUAL INSPECTION lable YES or NO_YES	
Accept	VISUAL INSPECTION lable YES or NO_YES ided Bend Test Results	Recut
Accept Type Result	VISUAL INSPECTION lable YES or NO_YES	Result
Accept	VISUAL INSPECTION lable YES or NO_YES ided Bend Test Results	Result
nher and Arry Arry Arry Accept Accept Type Result	VISUAL INSPECTION lable YES or NO_YES ided Bend Test Results	Result
Accept Type Result Side Bend (2) Satisfactory	VISUAL INSPECTION lable YES or NO_YES ided Bend Test Results	Result
Dther Durin A. Aug Accept Type Result Side Bend (2) Satisfactory	VISUAL INSPECTION lable YES or NO_YES ided Bend Test Results Type	Result
Accept Type Result Side Bend (2) Satisfactory F	VISUAL INSPECTION lable YES or NO_YES lided Bend Test Results Type ILLET TEST RESULTS Fillet Size_N/A	Result
Accept Type Result Side Bend (2) Satisfactory Fracture Test Root Penetration N/A	ILLET TEST RESULTS Fillet Size_N/A Macroetch N/A	Result
Accept Type Result Side Bend (2) Satisfactory F Appearance N/A Fracture Test Root Penetration N/A	VISUAL INSPECTION lable YES or NO_YES ided Bend Test Results Type ILLET TEST RESULTS Fillet Size_N/A Macroetch_N/A earing of the specimen)	
Accept Type Result Side Bend (2) Satisfactory F	VISUAL INSPECTION lable YES or NO_YES ided Bend Test Results Type ILLET TEST RESULTS Fillet Size_N/A Macroetch_N/A earing of the specimen)	Result
Dither Differ Di	VISUAL INSPECTION lable YES or NO_YES lided Bend Test Results Type ILLET TEST RESULTS Fillet Size_N/A Macroetch_N/A earing of the specimen) Test Number014	
Dither Differ Di	VISUAL INSPECTION lable YES or NO_YES lided Bend Test Results Type ILLET TEST RESULTS Fillet Size_N/A Macroetch_N/A earing of the specimen) Test Number014	
Dither Differ Di	VISUAL INSPECTION lable YES or NO_YES lided Bend Test Results Type ILLET TEST RESULTS Fillet Size_N/A Macroetch_N/A earing of the specimen) Test Number014	
Dther Duty A	VISUAL INSPECTION lable YES or NO_YES iided Bend Test Results Type ILLET TEST RESULTS Fillet Size_N/A Macroetch_N/A earing of the specimen) Test Number_014 Date014	
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Accept Type Result Side Bend (2) Satisfactory Facture Test Root Penetration N/A Pescribe the location, nature, and size of any crack or to nspected by Marvin L. Tyler (AWS-CWI) #94070891 Organization TYLER ASSOCIATES, INC, Film Identification Result Remarks	VISUAL INSPECTION lable YES or NO_YES iided Bend Test Results Type ILLET TEST RESULTS Fillet Size_N/A Macroetch_N/A earing of the specimen) Test Number14 Date11/16/2013 DGRAPHIC TEST RESULTS Film Identification	
Dither Differ Di	VISUAL INSPECTION table YES or NO_YES ided Bend Test Results Type ILLET TEST RESULTS Fillet Size_N/A Macroetch_N/A earing of the specimen) Test Number014 Date11/16/2013 DGRAPHIC TEST RESULTS Film	
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WELDER, WELDING OPERATOR OR TACK WELDER QUALIFICATION TEST RECORD

Manufacturer or contractor: Tyler Welding Lab. 110 Fairchild Downs Place, Cary, NC 27518 (919) 367-8872 tyweld@juno.com Authorized by: Marvin Tyler (Welding Engineer & AWS QC-1 CWI) Certified Welding Inspector Date_11/16/2013

11/02/2012 14:23 18567863144

RAMBALL TESTLAB, INC.

1763 INDUSTRIAL HIGHWAY - UNIT 3

1703 INDUSTRIAL HIGHMAY 5 UNIT 5 CINNAMINSON, NJ D8077-2546 PHOME: (856) 786-8880 FAX: (856) 785-3144

LABORATORY REPORT

11/2/2012

Submitted to: Telecommunications Contracting 2242 Old Marlton Piks Marlton NJ 08053 ATTN:

P.O. Number: Verbal Tom Lab Number: 332321 Fage 1 of 1

Item: 1." Thick Weld Test Plate Material: Grade B Material Specification: ASTM A514 Filler Material: E11018-M, AWS A5.5 Position: 4G Overhead Process: SMAW Welder: Erv Moore PQR Number: 25.PQR.TccI.D.1-A5.5

WELD PROCEDURE QUALIFICATION TEST

IAW AWS D1.1

TRANSVERSE TENSILE TEST

Required Stress, ksi: 110-130 minimum/maximum

anders - Antiquestic Stating - 60 and	SPECIMEN #1	SPECIMEN #2
WIDTH (inches):	0.752	0.749
THICKNESS (inches):	0.920	0.850
AREA (sq. inches):	0.692	0.637
ULTIMATE LOAD (1bs):	77,723	70,678
JLTIMATE STRESS (ksi):	112	111
LOCATION OF FRACTURE:	Weld	Weld
CHARACTER OF FAILURE:	Ductile	Ductile
DISPOSITION:	Acceptable	Acceptable

GUIDED BEND TEST

	Bend Diameter:	2-1/2"	Bend Angle: 180	Degrees
	SPECIMEN #1	SPECIMEN #2	SPECIMEN #3	SPECIMEN #4
TYPE: DEFECTS: DISPOSITION:	Side Absent Acceptable	Side Absent Accept.abl e	Side Absent Acceptable	Side Absent Acceptable

Joel Muzik Quality Manager

We certify that the above results are correct as contained in the records of this company. This report shall not be reproduced, except in full, without the permission of Ramball Testlah, Inc. Testing is performed in accordance with the appropriate method identified in the above listed product or material appedication. The method of testing is performed in accordance with the current revision at the time of test, unless otherwise specified. The recording of falme, fictitious or fraudulent statements or entries on this document may be punishable under federal statutes including Pederal Law, Title 16, Chapter 47. We are an ISO 17025 Accredited Laboratory, by multiple agencies. Testing and or inspections were performed in accordance with Ramball Testlab Quality Nanual Rev. 12. ALLA Cortificate Number: 142.01. During test and inspections this product did not come in direct contact with mercury or any of its comprands, nor with any mercury-containing device employing a single boundary of containment. 11/02/2012 14:23 18567863144

RAMBALL TESTLAB, INC.

1703 INDUSTRIAL HIGHWAY - UNIT 3

CINNAMINSON, NJ 08077-2546 R: (856) 786-8880 FAX: (856) 786-3144

PHUNR: (856) 786-8880 FAX: (856) 786-3

LABORATORY REPORT

11/2/2012

Submitted to: Telecommunications Contracting 2242 Old Marlton Pike Marlton NJ 08053 ATTN:

P.O. Number: Verbal Tom Roberts Lab Number: 332320 Page 1 of 1

Item: 1" Thick Weld Test Plate Material: Grade B Material Specification: ASTM A514 Filler Material: E11018-M, AWS A5.5 Position: 4G Process: SMAW Welder: Erv Moore PQR Number: 25.PQR.TccI.D.1-A5.5 Note: Visual Inspection Required. State Visual acceptance per AWS D1.1

VISUAL INSPECTION

Test Specification: AWS D1.1 Disposition: Acceptable

RADIOGRAPHIC INSPECTION

Test Specification: AWS D1.1 CUANTITY ONANTITY CUANTITY

TESTED	ACCEPTED	REJECTED
1	1	0
		-1-1 -

Disposition: Acceptable

Tested Hy:Donahue, B. Level II

Quality Mana

We certify that the above results are correct as contained in the records of this company. This report shall not be reproduced, except in full, without the permission of Ramball Testlab, Inc. Testing is performed in accordance with the appropriate method identified in the above listed product or material specification. The method of testing is performed in accordance with the current revision at the time of test, unless otherwise specified. The recording of false, fictitious or fraudulent statements or entries on this document may be guishable under faderal statutes including Federal Law, Title 18, Chapter 47. We are an ISO 17025 Accordited Laboratory, by multiple agencies. Testing and or impactions were performed in accordance with Ramball Testlab Cuality Manual Rev. 12. We are a WADCAP Accredited Laboratory, in accordance with XE7114 for nondestructive testing to include magnetic particle inspection and liquid penstrant inspection. During test and inspections this product did not come in direct contact with mercury or any of its compounds, nor with any mercury-containing device employing a single boundary of containment.

RAMBALL TESTLAB, INC.

1703 INDUSTRIAL HIGHWAY - UNIT 3

CINNAMINSON, NJ 00077-2546 PH:NE: (856) 786-8880 FAX: (856) 786-3144

LABORATORY REPORT

Submitted to: Telecommunications Contracting 2242 Old Marlton Pike Marlton MIT 08053 ATTN:

11/2/2012

P.O. Number; Verbal Tom Lab Number: 332319 Page 1 of 1

Item: 1" Thick Weld Test Plate Material: Grade B Material Specification: ASTM A514 Filler Material: E11018-M, AWS A5.5 Position: 3G Vertical Process: SMAW Welder: Erv Moore PQR Number: 25, PQR.TccI.D.1-A5.5

WELI) PROCEDURE QUALIFICATION TEST

IAW AWS D1.1

TRANSVERSE TENSILE TEST

Required Stress, ksi: 110-130 minimum/maximum

	SPECIMEN #1	SPECIMEN #2
WIDTH (inches):	0.754	0.755
THICKNESS (inches):	0.930	0.975
AREA (sq. inches):	0.701	0.736
ULTIMATE LOAD (1bs):	79,816	82,757
ULTIMATE STRESS (ksi):	1114	112
LOCATION OF FRACTURE:	Weld	Weld
CHARACTER OF FAILURE:	Ductile	Ductile
DISPOSITION:	Acceptable	Acceptable

GUIDED BEND TEST

	Bend Diameter:	2-1/2"	Bend Angle: 180	Degrees
	SPECIMEN #1	SPECIMEN #2	SPECIMEN #3	SPECIMEN #4
TYPE:	Side	Side	Side	Side
DEFECTS :	Absent	Absent	Absent	Absent
DISPOSITION:	Acceptable	Acceptable	Acceptable	Acceptable

Quality Manager

We certify that the above results are correct as contained in the records of this company. This report shall We certify that the above results are correct as contained in the records of this company. This report shall not be reproduced, except in full, without the permission of Ramball Testlab, Inc. Testing is performed in accordance with the appropriate method identified in the above listed product or material specification. The method of testing is performed in accordance with the current revision at the time of test, unless otherwise specified. The recording of false, fictitious or fraudulent statements or entries on this document may be punishable under federal statutes including Federal Law, Title 18, Chapter 47. We are an ISO 17025 Accredited Laboratory, by multiple agencies. Testing and or inspections were performed in accordance with Ramball Testlab Quality Manual Rev. 12. AZLA Certificate Number: 142.01. During test and inspections this product did not come in direct contact with mercoury or any of its compounds, nor with any mercury-containing device employing a single boundary of containment.

RAMBALL TESTLAB, INC.

1703 INDUSTRIAL HIGHWAY - UNIT 3 CINNAMINSON, NJ 08077-2546

PHOME: (856) 786-8980 FAX: (856) 786-3144

LABORATORY REPORT

Submitted to: Telecommunications Contracting 2242 Old Marlton Pike Marlton NJ 08053 ATTN:

P.O. Number: Verbal Tom Roberts Lab Number: 332318 Page 1 of 1

11/2/2012

Item: 1" Thick Weld Test Plate Material: Grade B Material Specification: ASTM A514 Filler Material: E11018-M, AWS A5.5 Position: 3G Vertical Process: SMAW Welder: Erv Moore PQR Number: 25.PQR.TccI.D.1-A5.5 Note: Visual Inspection Required. State Visual acceptance per AWS D1.1

VISUAL INSPECTION

Test Specification: AWS D1.1 Disposition: Acceptable

RADIOGRAPHIC INSPECTION

Te	st.	Specification:	AWS	D1.1
QUANTETY		QUANTITY		QUANTITY
part and an part of side		-		

TESTID	TESTID ACCEPTE		REJECTED
1		l	0
	Disposition:	Acceptabl	e

Tested By: Donahue, B. Level II

JOB Quality Manager

We cartify that the above results are correct as contained in the records of this company. This report shall not be reproduced, except in full, without the permission of Ramball Testlab, Inc. Testing is performed in accordance with the appropriate method identified in the above listed product or material specification. The method of testing is performed in accordance with the current revision at the time of test, unless otherwise specified. The recording of false, fictitics or fraukulent statements or entries on this document may be punishable under federal statutes including Federal Law, Title 18, Chapter 47. We are all SO 17025 Accredited Laboratory, by multiple agencies. Testing and or inspections were performed in accordance with Ramball Testlab Quality Manual Rev. 12. We are a NADCAP Accredited Laboratory, in accordance with AS7114 for nondestructive testing to include magnetic particle inspection and liquid penetrant inspection. During test and inspections this product did not come in direct contact with mercury or any of its compounds, nor with any mercury-containing device employing a single boundary of containment.

RAMBALL TESTLAB, INC.

1703 INDUSTRIAL HIGHWAY - UNIT 3 CINNAMINSON, NJ 08077-2546 PHONE: (856) 786-8880 FAX: (856) 786-3144

LABORATORY REPORT

Submitted to: Telecommunications Contracting 2242 Old Marlton Pike Marlton NJ 08053 ATTN: Tom Roberts 1/7/2013

P.O. Number: Verbal T. Roberts Lab Number: 333151 Page 1 of 1

Item: 1" Thick Weld Test Plate Material: A514 to A572 Gr.65 Heat Number: 88778 to 88776 Welder: Erv Moore Filler Metal: E8018 Weld Process: SMAW Weld Position: 3G POR: 25.POR.TecI.D.1-A5.5

VISUAL INSPECTION

Test Specification: AWS D1.1 Disposition: Acceptable

RADIOGRAPHIC INSPECTION

Acceptance	Specification:	AWS D1.1
QUANTITY	QUANTITY	QUANTITY
TESTED	ACCEPTED	REJECTED
1	l	0

Tested By: Donahue, B. Level II

Joel Muzik Quality Manager

We certify that the above results are correct as contained in the records of this company. This report shall not be reproduced, except in full, without the permission of Ramball Testlab, Inc. Testing is performed in accordance with the appropriate method identified in the above listed product or material specification. The method of testing is performed in accordance with the current revision at the time of test, unless otherwise specified. The recording of false, fictitious or fraudulent statements or entries on this document may be punishable under federal statuted including Federal Law, Title 19, Chapter 47. We are an ISO 17025 Accredited Laboratory, by multiple agencies. Testing and or inspections were performed in accordance with Ramball Testlab Quality Manual Rev. 12. We are a NADCAF Accredited Laboratory, in accordance with AST14 for modestructive testing to include magnetic particle inspection and liquid penetrant inspection. During test and inspections this product did not come in direct contact with mercury or any of its compounds, nor with any mercury-containing device employing a single boundary of containment.

RAMBALL TESTLAB, INC.

1703 INDUSTRIAL HIGHWAY - UNIT 3 CINNAMINSON, NJ 98077-2546 PHONE: (856) 786-8880 FAX: (856) 786-3144

LABORATORY REPORT

Submitted to: Telecommunications Contracting 2242 Old Marlton Pike Marlton NJ 08053 ATTN: Tom Roberts 1/7/2013

P.O. Number: Verbal T. Roberts Lab Number: 333149 Page 1 of 1

Item: 1" Thick Weld Test Plate Material: A514 to A572 Gr.65 Heat Number: 88778 to 88776 Welder: Erv Moore Filler Metal: E8018 Weld Process: SMAW Weld Position: 4G PQR: 25.PQR.TccI.D.1-A5.5

VISUAL INSPECTION

Test Specification: AWS D1.1 Disposition: Acceptable

RADIOGRAPHIC INSPECTION

Acceptance	Specification:	AWS D1.1
QUANTITY	QUANTITY	QUANTITY
TESTED	ACCEPTED	REJECTED
1	1	0

Tested By: Donahue, B. Level II

Joel Muz Quality Manager

We cortify that the above results are correct as contained in the records of this company. This report shall not be verroduced, except in full, without the permission of Ramball Testlab, Inc. Testing is performed in accordance with the appropriate method identified in the above listed product or material specification. The method of testing is performed in accordance with the current revision at the time of test, unless otherwise specified. The recording of false, fictitious or fraudulent statements or entries on this document may be punishable under federal statutes including Federal Law, Title 18, Chapter 47. We are an 190 17025 Accredited Laboratory, by multiple agencies. Testing and or inspectices were performed in accordance with Ramball Testlab Quality Manual Rev. 12. We are a NADCAP Accredited Laboratory, in accordance with ASTI14 for nondestructive testing to include magnetic particle inspection and liquid penetrant inspection. During test and inspections this product did not come in direct contact with mercury or any of its compounds, nor with ary mercury-containing device employing a single boundary of containment.

AWS Welder and Welding Operator Qualification Test Record

Welder or op	perator's name	Ervin Moore	L	Identificatio	on no. 231-72-588	4	
	cess SMAW	Manual	<u>x</u> s	emiautomatic			
	F3 Vertical Up						
				her upward or down			
			AWS D1.1 F	re qualified Telcon	m-SM1		
Diamatar and	cification <u>A</u>	(if nino) othom	where the last states	kness 1/2"in. Plat			
Thickness ra	inge this qualifie	(II pipe) - otnerv	wise, joint thic	kness_1/2 ⁻¹ n. Plat	ie		1000
THERICas Ta	inge uns quanne:	s 1/6- Oninnit	and the second	LLER METAL			
Specification	1 no. AWS 5.1			Control March Sector Control	F no.	F4	
	er metal (if not c						
	rip used? <u>N/A</u>	la manua 1/017 !	ander Elas G				
Filler metal C	diameter and trac	ie name_1/8"Lin	coin_Flux for	submerged arc or	gas for gas metal a	rc or flux	
			VISUAL	NSPECTION (9.25	weiding <u>N/A</u>		
Appearance	Good	Under			Piping porosity	None	
				Bent Test Results		None	
	2		Guidee	Dent Test Results			
	Туре	Result		Туре	Result		
Test can deset	ad ber						
Test conduct	ed by	labora	tory test no		and the second secon		
	per	Test d	And a state of the	et Test Results			
Appearance	Ac	ceptable			E/1 Cli in sh		
	root penetration	Accenta	bla	Fillet size			
(describe the	location nature	and size of any	crack or tearin	g of the specimen.)	Acceptable		
Test conducte	ed by	Preston CW1	Labor	atory test no.	5884		
		1.1 2000 4.25		ate 5/9/07			
			RADIOGRA	PHIC TEST RESU	ILTS		
Film	· · · · · · · · · · · · · · · · · · ·			Film			•
identifi-	Results		Remarks	identifi-	Results	Remarks	
cation			i comunes	cation	Robults	Romarks	
T. 4 . 4	11						
Test witnesse				Te	est no		~~~~~
We the under	per	handles	· · · · · · · · · · · · · · · · · · ·				
we, the under	irements of 5C of	D of AWS D1	ts in this recon	d are correct and th	at the welds were j	prepared and tested in acco	rdance
with the requi	rements or se o	POLAWSDI.	2000) Structural W year	elding Code.		
	// 1	WS		ycai			
	// 0	C1	Manufa	cturer or Contracto	r Telecommu	nications Contracting Co.	
00	D A TOMEY	N. PRESTOR			oberts.		
Wale	Mesters	841051		5/9/07			
Dale Preston	AWS CW	CWI //					
		V I					

AWS

Welder and Welding Operator Qualification Test Record

Welder or operator's name	Ervin Moore	Identification n	0. 231-72-5884	
Welding process_SMAW	Manual X	Semiautomatic	Machine	
Position F4 Overhead				
		state whether upward or downwa		
In accordance with procedur Material specification A		VS D1.1 Pre qualified Telcom-S	<u>M1</u>	
		, joint thickness 1/2"in. Plate		10110
Thickness range this qualifie	(In pipe) - outerwise	Joint unexness_1/2 III, Flate		
The chess range and quarme	sOmmilied.	FILLER METAL		
Specification no. AWS 5.1		Classification E7018	F no. F4	
Describe filler metal (if not c	overed by AWS spe	cification)		
Is backing strip used? N/A				2
Filler metal diameter and trac	de name_1/8"Lincoli	Flux for submerged arc or gas		
Manufacture and the second second second			ding <u>N/A</u>	
		VISUAL INSPECTION (9.25.1)		
Appearance Good	Undercut		ing porosity <u>Non</u>	e
		Guided Bent Test Results		
Туре	Result	Туре	Result	
Type	Nesuit	Type	Result	
		and other parts of the second se		
Test conducted by	laboratory	test no		
per	Test date			
	1	Fillet Test Results		
	cceptable		16" inch	Notest day and a second strategy of
Fracture test root penetration	Acceptable	Marcoeth	. Acceptable	
Test conducted by D.	, and size of any crac	k or tearing of the specimen.)		
	Preston CWI 1.1 2000 4.25		884 - oh	
per <u>Aws D</u>	1.1 2000 4.25	Test date <u>5/9/07</u>	and the second secon	
	R/	DIOGRAPHIC TEST RESULT	2	
		ibioologi nie rest Rescer	3	
Film		Film		
identifi- Results	R	emarks identifi-	Results	Remarks
cation		cation		
	and the second			
		Test	no	
per				
we, the undersigned, certify t	hat the statements in	this record are correct and that t	he welds were prepared	and tested in accordance
with the requirements of 5C o	rDoTAWSDI.I		ing Code.	
1. A A A A A A A A A A A A A A A A A A A		year		
A				
D D D D MANES		Manufacturer or Contractor		Contracting Co.
Nove Fret Cori			rts.	
Dale Preston AWS CWL w B	ESTIBH	Date5/9/07		
Date Preston A W C Wit W. PR			5 (th)	
8500410				
CW	//			
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	1			



Project: Newington_1	Site #: 826217	Job No: ATG-072-14	Date: 12-08-14
REMARKS AND/OR DISCREPANCIES:			

Notes:

On December 08, 2013, Applied Testing Group LLC, performed a visual examination of the installation ten new anchor bracket assembly-to-pole shaft and base plate extension, fabrication of ten new anchor bracket tube-to-plate, and installation of the existing base plate welded connections, located at 240 Kensington Road, Berlin, CT. The pre, during, and post welding operations were noted to be acceptable in accordance with the applicable requirements delineated in ANSI/AWS D1.1:2010.

The following were examined:

- 1) Installation of ten new anchor bracket assembly-to-pole shaft and base plate connections at the base elevation.
- 2) Fabrication of ten new anchor bracket tube-to-plate welded connections.
- 3) Installation of existing base plate welded connections at the base elevation.

The welds were acceptable in accordance with ANSI/AWS D1.1:2010 and the project plans/specifications. Cold galvanizing paint has been acceptably applied to all exterior locations.

Title(s): B & T Group	Date: 10-03-13	As-Built Date:	12-01-14	
Drawing No(s): SI to S14, D1				
Visit Requested by: Keith Stackhouse	Title: Project Manager-: LCC Deployment Services, Inc			
7 IS 10				
Examined By: L. John Harper, AWS/CWI-NDE Level II	Date: December	08, 2014	12001	

NOTE: We, the above signed, have evaluated the above referenced welded connections, and to the best of our knowledge, state that the information in fills/record is accurate. This examination report reflects the actual NDE procedure that was conducted by Applied Testing Group, LLC. Submission of this report is for informational purposes and does not reflect any guarantee of the part, inspection procedures, or standards, and is subject to the limitations of each test method.

Page 2 of 2



11017 Mt. Charron Rd., NW Huntsville, AL 35810 Phone: (256) 425-8975

VISUAL OBSERVATION REPORT

Clie	nt: : LCC Deploymen	t Services, Inc.	Project: N	Newington_1		Site#: 826217			
Proj	ect Location: 240 Ke	nsington Road, Berlin, CT	ATG Tec	hnician: L. F	larper	Date: 12-08-14			
Fim	e In : 7:30 a.m.	Time Out : 3:30 p.m.	Job No: /	ATG-072-14	B&T R	ef. #: 87581.005.0			
	FIELD OBSERVA	TIONS							
X	New Anchor Brac	ket Connections:		Location		Accepta			
	Installation of ten new	anchor bracket assembly-to-pole	nchor bracket assembly-to-pole shaft and base plate						
	extension welded conn	ections at the base elevation.		Welds Co	orrect Size	Accepta			
				Welds Co	orrect Leng	gth Accepta			
	Acceptable	Unacceptable	See note: 1						
\times	Fabricated Ancho	or Bracket Connections:		Location		Accepta			
	Fabrication of ten new	anchor bracket tube-to-plate well	Ided connections.	Plate Siz	e	Accepta			
				Welds Co	orrect Size	Accepta			
				Welds C	orrect Lenj	gth Accepta			
	Acceptable	Unacceptable	See note: 2						
	Base Plate-to-Pole	e Shaft Circumferential W	elded Connection	1s: Beams C	orrect Size				
				Location	s / Orienta	tion			
				Welds Co	orrect Size				
				Welds Co	orrect Leng	gth			
	Acceptable	Unacceptable] See note:						
	Bridge Stiffener V	Velded Connections:		Location					
				Plate Siz	e				
				Welds Co	orrect Size				
				Welds C	orrect Len	gth			
	Acceptable	Unacceptable] See note:			20044			
\ge	Existing Base Pla	te Welded Connections:		Location		Accepta			
	Installation of existing	base plate welded connections a	t the base elevation.	Plate Siz	e	Accepta			
				Welds C	orrect Size	Accepta			
				Welds C	orrect Len	gth Accepta			
	Acceptable		See note: 3						
	New Reinforcing	Plate-to-Pole Shaft Welde	d Connections:	Location					
				Plate Siz	e				
	has a second			Welds C	orrect Size				
				Welds C	orrect Len	gth			
	Acceptable	Unacceptable	See note:						
X	Other:								
	The pre, during, and p	ost welding operations were obse	erved to be acceptable	in accordance v	with the a	pplicable			
	requirements delineate	d in ANSI/AWS D1.1:2010.							
	Acceptable	Unacceptable							
_	and start protocol								

Page 1 of 2



chem. Eee Beploying	ent Services, Inc.		Proj	Project: Newington_1					
Location/Area: 240 F	Kensington Road, Berl	in, CT	Com	ponent(s): To	ower-to-Ba	se Plate Weld	10. mil 10 - 7. mil 10 -		
Time In: 7:50 a.m.	Job	No.: ATG-072-	e #: 87581.005.01						
ITEM: 🛛 Weld(s)		Structural	□c	asting(s)	🗆 Pip	e(s)	Plate(s)		
	Machinery	Machined F	Part 🖾 O	ther: Tower-to-	Base Plate	Weld			
Material: Carbon Steel		f Pieces	Base Metal A572 Gr. 65		filler Meta 8018	ll We	ld Condition: ded Ground		
Acceptance Standard	d: ANSI/AWS D1.1:	2010 Edition	Proc	edure: AWS-	UT-1, Rev	. 1			
	Soundness	Thickness	UT I Krau	Equipment Na Kramer Branso	ame/Mod n / USK-7	el/Serial No.: 7 / SER# 27276	-3260		
Type of Inspection Method	⊠Angle Beam	🗌 Bond	Tran Size: Freq	Straight Beam: Transducer: GE Gamma RPH Size: .500" Diameter Frequency: 2.25 MHz Serial No. 022L3D			Angle Beam: Transducer: GE Gamma Size: .375" Diameter Frequency: 2.25 MHz Serial No. 00P1CV		
	Other:		Tran	sducer Type: ngle 🔲 Dual		Wedge A	Wedge Angle(s): 60 Degree S/N W-300 70 Degree S/N W-223		
🖾 DSC 🗌 IIW	Reference Block No.: 97-8116	Material: Carbon Steel	Турс	aration Block DSC eter: N/A	Calibra: 97-8116	tion Block No.:			
Screen Size:	Reference Gain:	Scanning Gain		l Calibration	Calibrat	tion Rechecks:	Couplant:		
2.5" 🛛 5"	42.0 dB - 60 Degree	□+6db		Time; 7:50 a.m.		m 2)	Ultragel II, Batel		
	46.0 dB - 70Degree	Other: 14d	iB 7:50			4)	# 25-004/10125E		

ULTRASONIC CALIBRATION REPORT

Cal. Sheet No. : UTC - 001 Indication Report No(s). : UTR - 001

Page 1 of 2



REPORT OF ULTRASONIC TESTING OF WELDS

Client: : LCC Deployment Services, Inc.	Project: Newington_1	Job No.: ATG-072-14 BU#: 826217				
Location: 240 Kensington Road, Berlin, CT	Area: Tower-to-Base Plate Weld	Report No: UTR-001				

Full Penetration Tower-to-Base Plate Circumferential	Weld
	211203000

WELD IDENTIFICATION:	Full Penetration Tower-to-Base Plate Circumferential Weld
MATERIAL THICKNESS:	0.625"
WELD JOINT AWS:	T/C
WELDING PROCESS:	SMAW
OUALITY REQUIREMENTS	ANSI/ AWS D1.1: 2010
REMARKS:	All dimensions are expressed in inches.
NOTES:	100% of available surface areas examined

		H			DECI	BELS		_	DIS	CONTIN	UITY					
R ANGL	ATION P	NSDUCER ANGLE	/ SURFA		INDICATION LEVEL	REFERENCE LEVEL	ATTENUATION FACTOR	INDICATION RATING	GTH	IULAR FANCE (SOUND H)	TH FROM FACE "A"	DIST	ANCE	EPTABLE	ECTABLE	REMARKS
	TRA	FRO	LEG	A	В	С	D	LEN	ANG DIST PAT	DEP	FROM	FROM Y	ACC	REJ		
-	60/ 70	А	-		42 46			÷	-	-	-		x		ACCEPTABLE	
+													_			
					-											
	1 INDICATION NUMBER	INDICATION N	INDICATION N Provide TRANSDUCER FROM FACE /	INDICATION NUMBE TRANSDUCER ANGL FROM FACE / SURFA	INDICATION NUMBER [®] TRANSDUCER ANGLE [®] FROM FACE/SURFACE LEG* [▶] INDICATION	indication number indication number indication number indication indication LEG* indication indication indication indication indication indication indication indication indication	INDICATION NUMBER 00 TRANSDUCER ANGLE 01 FROM FACE/SURFACE 02 LEG* 1 INDICATION 03 IEVEL 04 ATTENUATION 05 ATTENUATION 04 ATTENUATION	INDICATION NUMBE (0) TRANSDUCER ANGL > FROM FACE / SURFA > LEG* 1 LEG* 1 LEVEL 1 LEVEL 7 ACTONION 0 ACTONION 0 ACTONION 0 ACTONION 0 ACTONION 0 RATING	INDICATION NUMBER 700 TRANSDUCER ANGLE 700 FROM FACE/SURFACE 71 LLEG* 75 H 76 LEVEL 77 ATTENUATION 7 ATTENUATION 8 REFERENCE 1 LEVEL	INDICATION NUMBER (0) TRANSDUCER ANGLE > FROM FACE / SURFACE > LEG* (1) > (2) ATTENUATION (2) ATTENUATION (3) ATTENUATION (4) ATTENUATION (5) B (4) ATTENUATION (5) A (6) ATTENUATION (7) ATTENUATION (7) ATTENUATION (8) B (9) ATTING (9) B (10) ANGULAR (10) D (11) D (12) ANGULAR (13) D	INDICATION NUMBER IRANSDUCER ANGLE FROM FACE/SURFACE LEG* LEG* A ILEVEL A TENULATION A LEVEL A ATTENUATION A ATTENUATION A ATTENUATION A ATTENUATION B INDICATION A ATTING DISTANCE (SOUND DEFTH FROM DEFTH FROM	INDICATION NUMBER INDICATION NUMBER IRANSDUCER ANGLE FROM FACE/SURFACE FROM FACE/SURFACE ILEG* ATTENEL ATTENEL PATTH) DEPTH FROM SURFACE "A" SURFACE "A"	INDICATION NUMBER INDICATION NUMBER ITANSDUCER ANGLE FROM FACE/SURFACE FROM FACE/SURFACE Itanspucer and the statement Itanspucer and the statement	INDICATION NUMBER INDICATION NUMBER INDICATION NUMBER FROM FACE/SURFACE FROM FACE/SURFACE ILEG* LLEG* ATTENUATION ATTENUATION ATTENUATION ATTENUATION ATTENUATION ATTENUATION ATTENUATION ATTENUATION ATTENUATION ANGULAR AND AND AND AND AND	INDICATION NUMBER INDICATION NUMBER INDICATION NUMBER FROM FACE / SURFACE FROM FACE / SURFACE ILEG* LLEG* ATTENUATION ATTENUATION ATTENUATION ATTENUATION ANGULAR ATTENUATION ANGULAR AND AND AND AND AND AND AND AND	

NOTE:

An ultrasonic examination of 100% of the available existing full penetration tower-to-base plate circumferential welded connection was conducted. The subject weld proved to be acceptable in accordance with the applicable acceptance criteria as set forth in ANSI/AWS D1.1: 2010- Structural Welding Code - Steel, and the project plans and specifications, as we understand them.

Examined By: Daniel Irons, Level III D. class	Date: September 28, 2014	DC QA
Reviewed By: L.J. Harper, CW1/Level II	Date: September 28, 2014	UOYD J. HANYER 04030761

NOTE: We, the above signed, have evaluated the above referenced welded connections, and to the best of our knowledge, state that the information in this record is accurate. This examination report reflects the actual NDE procedure that was conducted by Applied Testing Group, LLC. Submission of this report is for informational purpose and does not reflect any guarantee of the part, inspection procedures, or standards, and is subject to the limitations of each test method.

Page 2 of 2



11017 Mt. Charron Rd., NW Huntsville, AL 35810 Phone: (256) 425-8975

MAGNETIC-PARTICLE EXMAINATION REPORT

Client:	LCC Deployment Services, Inc.	Project:	Newington_1	ATG No:	072-14
Location:	240 Kensington Road, Berlin, CT	Area:	Various Welds (see below)	BU/Site#:	826217

WELD LOCATION AND IDENTIFICATION SKETCH

Component/Weld		Area Examined		Interpretation		Repairs		
Identification		Entire	Specific	Accept	Reject	Accept	Reject	Remarks
Existing base plate welds	- 50%		x	X		N/A	Ν/Λ	ACCEPTABLE
Ten fabricated anchor braplate welds - 100%	acket tube-to-	х		x		N/A	N/A	ACCEPTABLE
Ten new anchor bracket a welds - 50%	assembly		х	x		N/A	N/A	ACCEPTABLE
The State State	1							
RE-EXAMINATION:								
urface Preparation:	Wire B	rush						
OUIPMENT:								
nstrument Make: Park			del: DA-40			rial No: 13		
owder Manufacturer: P	arker Research (Corp. De	scription: R	P6 Red Por	wder B:	atch No: 1	7209	
METHOD OF INSPECT	ION:							
	-							
Dry	Wet		Visible			Fluor	escent	
Iow Media Applied:	Manual Dust	ing, Magne	tic Powder B	lower				
Residual	Continuou	IS L	True-Contir	nuous				
AC	DC		Half-Wave					
Prods	Yoke		Cable Wrap			Other	s	
Direction for Field:	🛛 Longitudi	inal 🗌] Circular			🗌 Othe	r:	
strength of Field:	v	erified with	pie gauge, v	arying inte	nsity			
<u>OST EXAMINATION:</u> Demagnetizing Techniqu	a (if ramired)	NIA						
Cleaning (if required): W			Manual, CRO	Zinc,				
							F	10.
Ve, the undersigned, cer	tify that the star	tements in	this record a	are correct	, and that	the test we	ds were presa	rettand lested in acc
he requirements of ANS	LAWS D1.1 20	<u>10</u> .	11A				11 201	ALT.
nspector / Level: L. John	Harper, CWI/NI	E Level II	JUH	Date:	12/08/201	4	LOND J. H	and and
STATISTICS STATISTICS AND STATISTICS	the second se			10.000				11.4.7
Reviewed by: Daniel I	rons, NDE Level	0	0	1000	12/08/201		04000	/

NOTICE: THIS EXAMINATION REPORT REFLECTS THE ACTUAL NDE PROCEDURE THAT WAS CONDUCTED BY APPLIED TESTING GROUP, LLC PERSONNEL. SUBMISSION OF THIS REPORT IS FOR INFORMATIONAL PURPOSES AND DOES NOT REFLECT ANY GUARANTEE OF THE PART, INSPECTION PROCEDURES, OR STANDARDS AND IS SUBJECT TO THE LIMITATIONS OF EACH TEST METHOD. Newington_1 Tower Site December 08, 2014 Page 2

plate extension welds, the VT and MT of the ten fabricated anchor bracket tube-to-plate welds, and the VT and MT test of the existing base plate welded connections, were in conformance with the applicable requirements delineated in ANSI/AWS D 1.1:2010-*Stuctural Steel Code*, and the project plans and specifications, as we understand them. Refer to the appended Visual Observation Reports, Welder Certifications, Ultrasonic Calibration Report, Ultrasonic Testing of Welds Report, Magnetic Particle Observation Report, Welding Procedure Specifications, CWI/NDE Certifications, and supporting photographs for particulars.

Discrepancies noted between the plans and specifications or code requirements, and the as-built construction observed in the conduct of the welding and structural steel observations were brought to the attention of the contractor. According to our records, all of the noted discrepancies have been corrected in the field in accordance with the project plans and specifications.

We have endeavored to complete the services identified herein in a manner consistent with that level of care and skill ordinarily exercised by members of the profession currently practicing in the same locality and under similar conditions as this project. No other representation, express or implied, is included or intended, and no warranty or guarantee is included or intended in this agreement, or any report, opinion, document, or other instrument of service.

We are pleased to be of service to you on this project. If you have any questions concerning this report, do not hesitate to contact either of the undersigned.

Very truly yours,

APPLIED TESTING GROUP, LLC.

L. John Harper, CWI/NDE Level II Senior Staff Technologist

Daniel Irons, NDE Level III Principal

Appended: Visual Observation Reports (1) Magnetic Particle Observation Report (1) Ultrasonic Calibration Reports (1) Ultrasonic Testing of Welds Report (1) Welding Procedures (2) Welder Certifications (2) CWI/NDE Certifications (2) Photographs (31)



DI:lb

"Exceeding Client Quality Expectations Every Day"

Nondestructive Testing • Physical Testing • Construction Monitoring • QA/QC Consulting • Project Management



11017 MT. CHARRON RD., NW HUNTSVILLE, ALABAMA 35810 PH: (256) 425-8975

Nondestructive Testing Qualification and Certification Record

This is to certify that:

Name: Daniel Irons

Social Security Number: 6010

Fully meets the requirements of ATG-NDE-QC-PQ-1 and is hereby certified in the method and the qualification level shown below:

NDT Method: MT

Certification Level : III

Date of Certification: 03/14/2011

Certification Expiration Date: 03/13/2011

Test Scores:

Test	Grade	Administered By	Remarks
Basic:	90.0	T. Munson, P.E.	
Method:	88.0	T. Munson, P.E.	
Specific:	96.0	T. Munson, P.E.	
Practical	90.0	T. Munson, P.E.	
Composite:	91.0	1.1.1	

Limitations: Visible Dry, Fluorescent Wet

Recommended for certification by:	Thomas 3 Munia, P.E.	Date: 03/14/2011
	Corporate Professional ASNT NDT Level III ASNT File Number 9295	
Certified by :	-Thomas 3 Munion , P.E.	Date: 03/14/2011
	Corporate Professional ASNT NDT Level III ASNT File Number 9295	











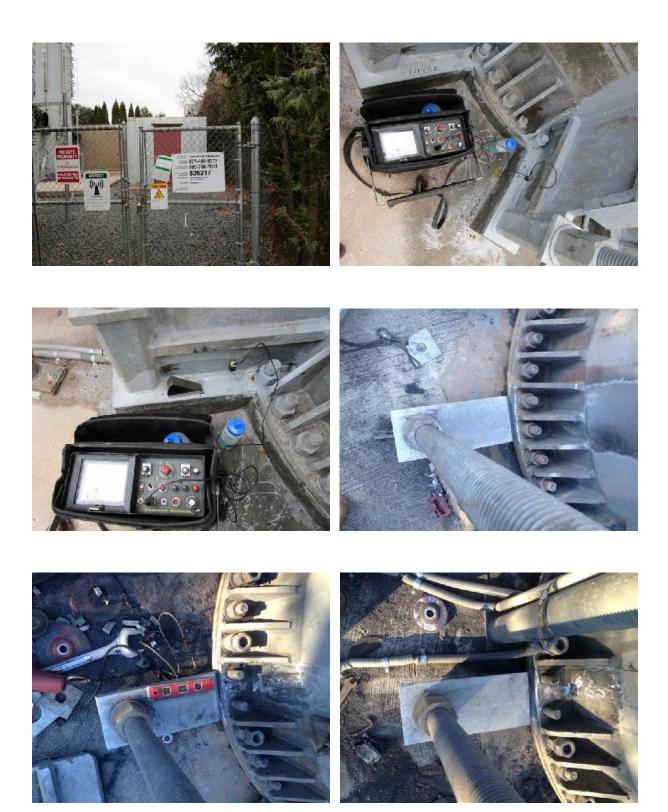




















































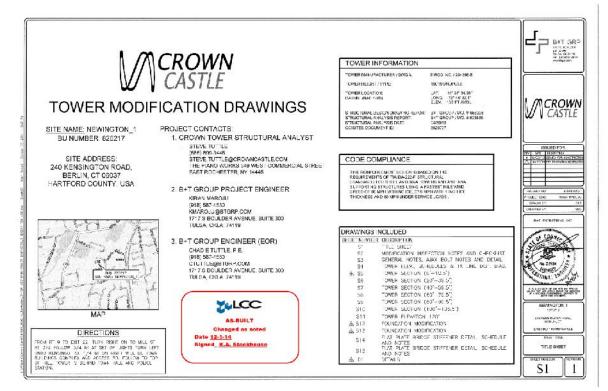




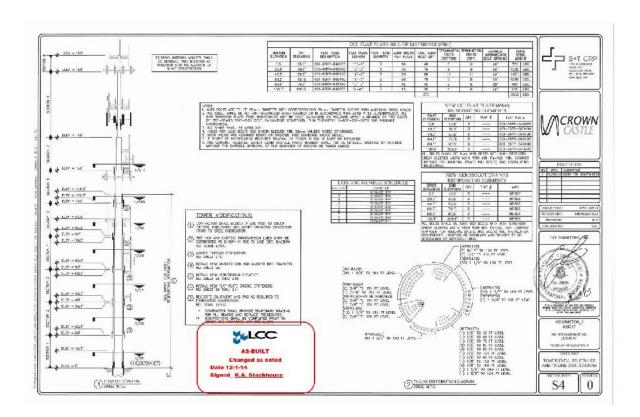
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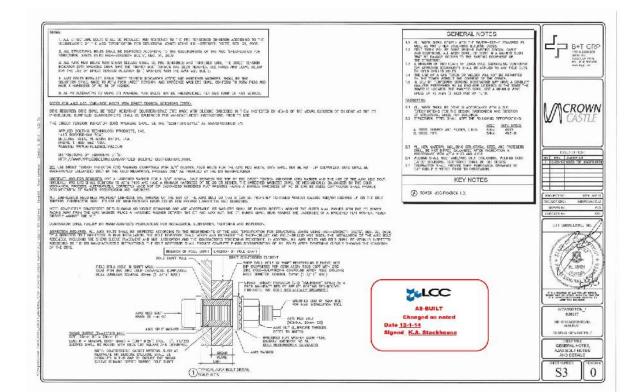


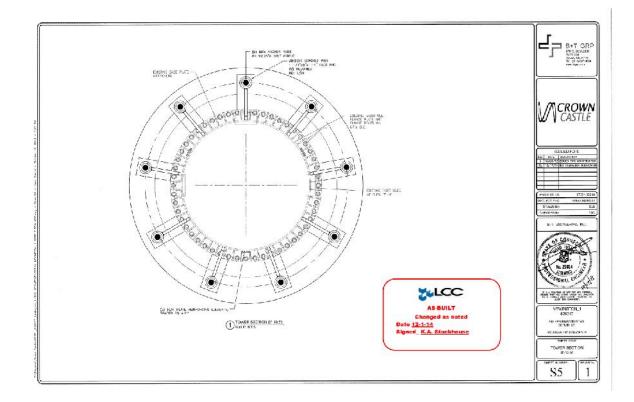
6.2.8 GC AS-BUILT DOCUMENTS

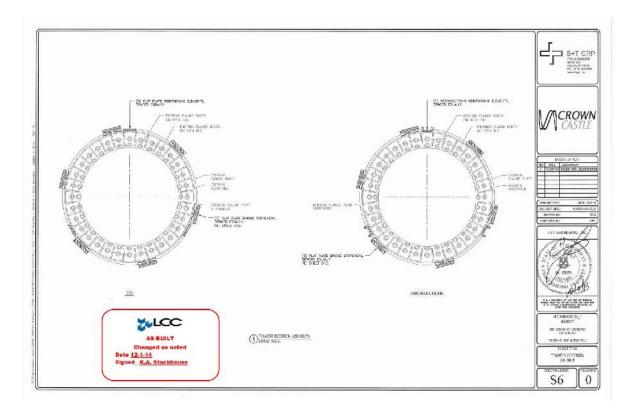


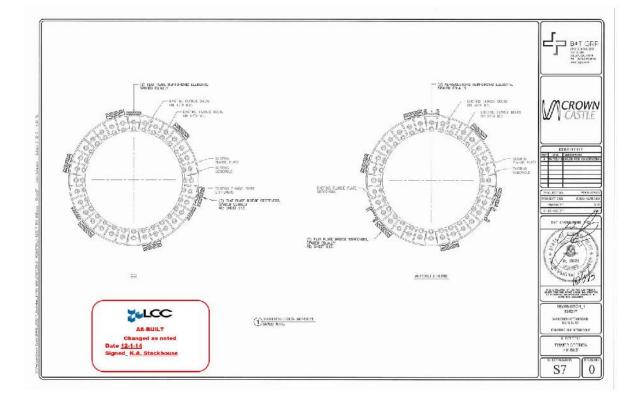
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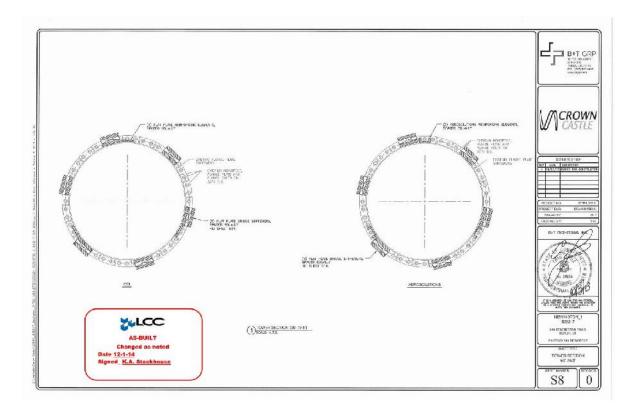


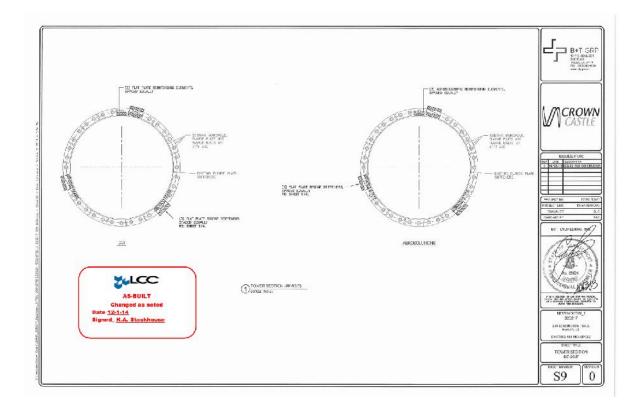


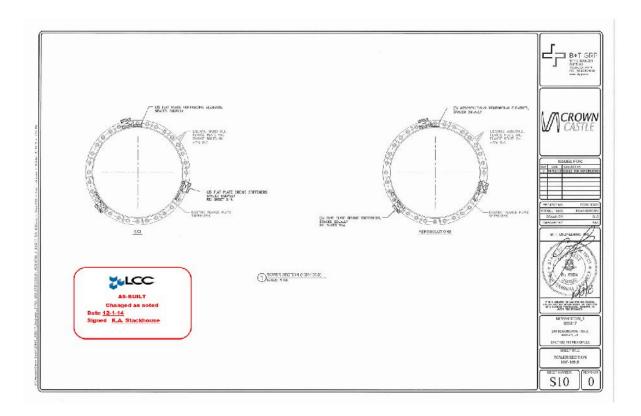


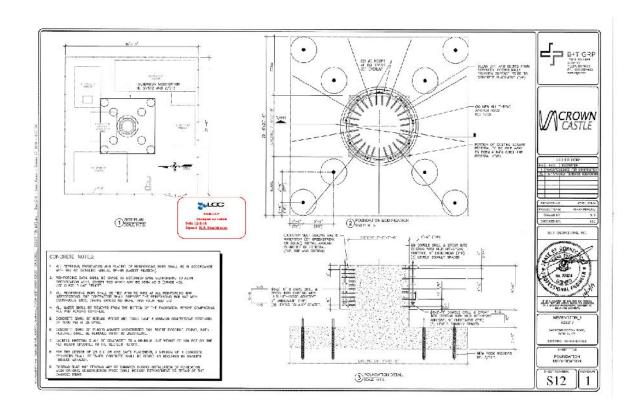


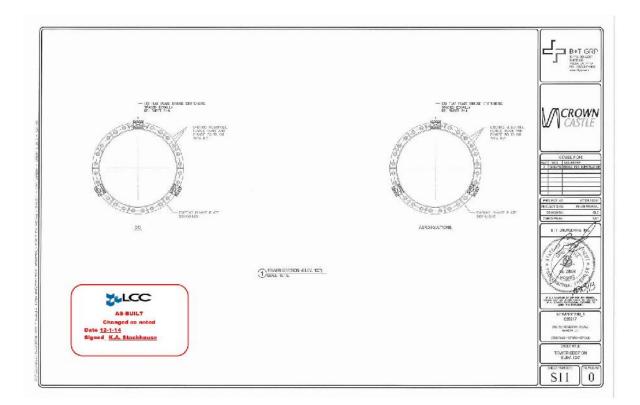


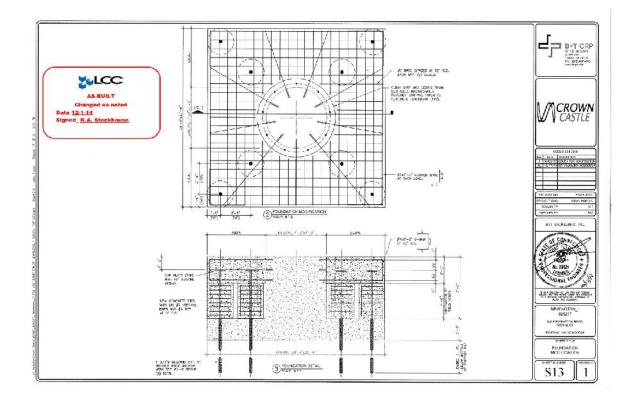


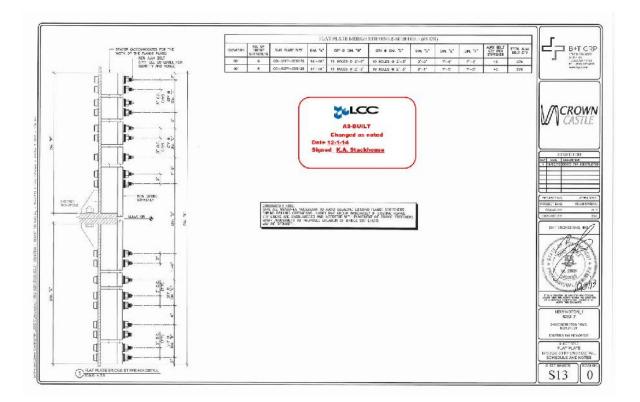


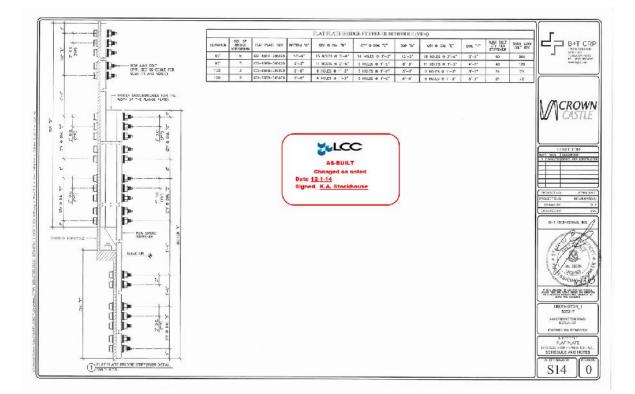


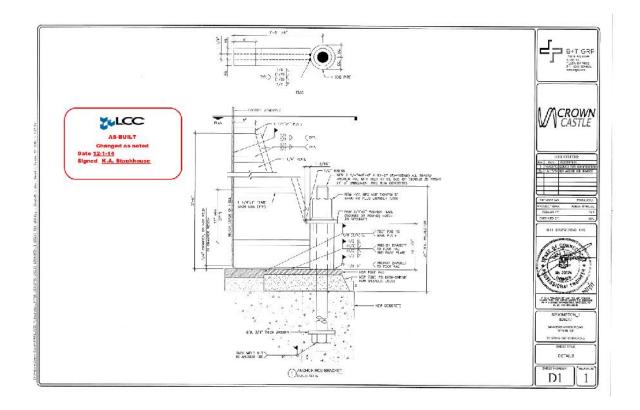






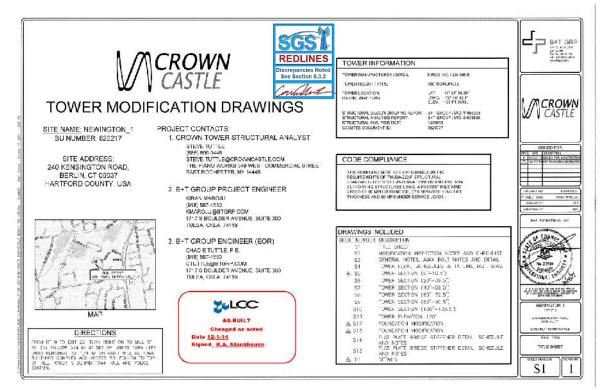




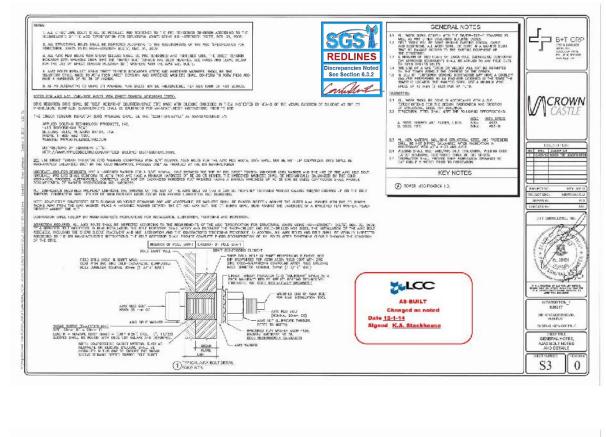


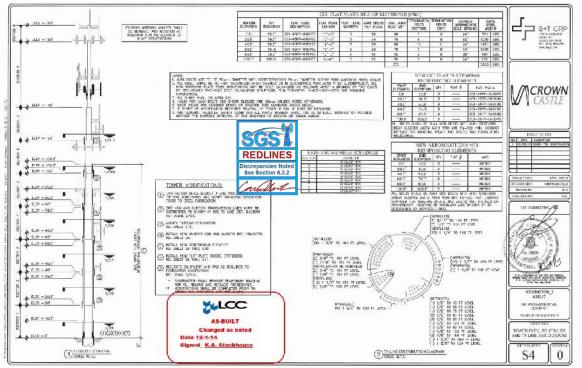
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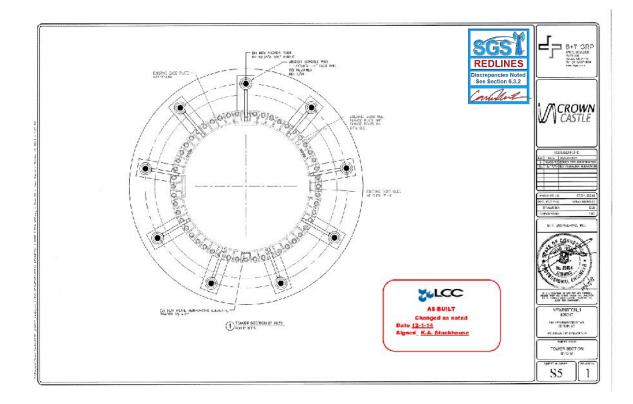
6.3.1 MI INSPECTOR REDLINE OR RECORD DRAWING(S)

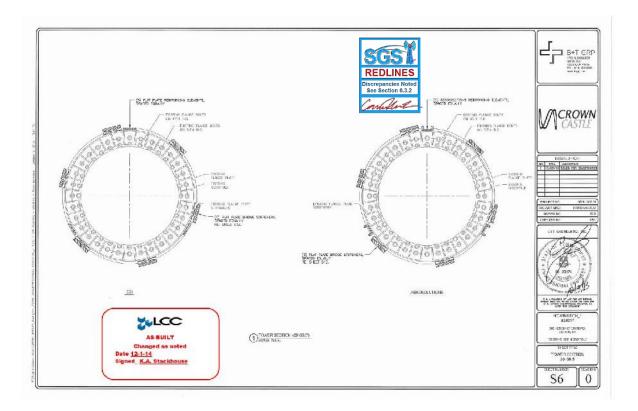


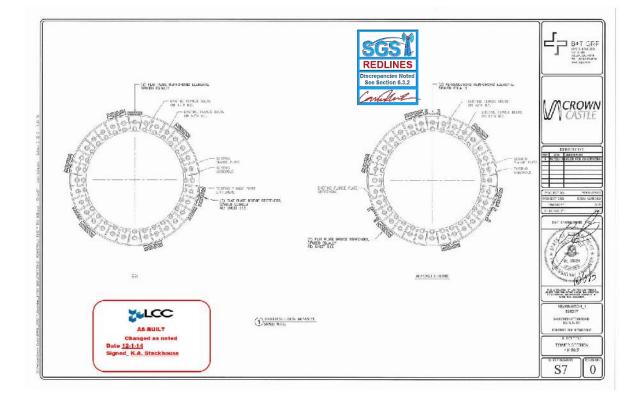
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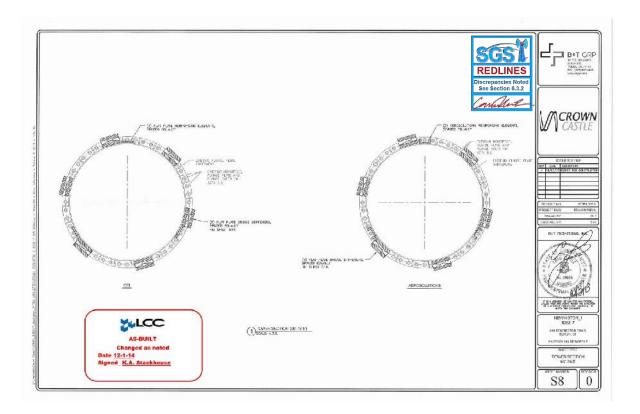


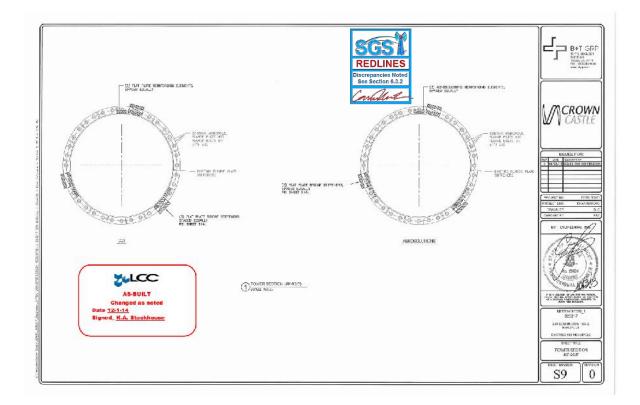


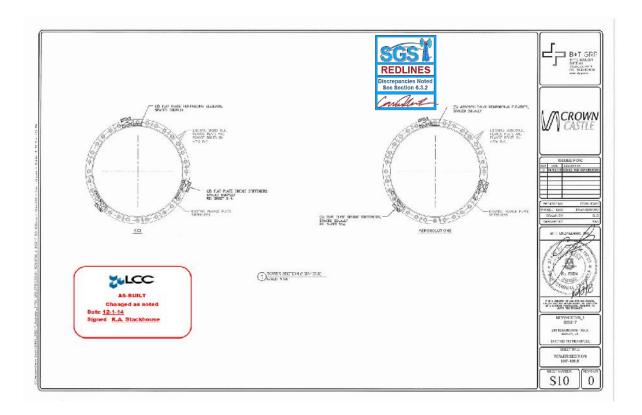


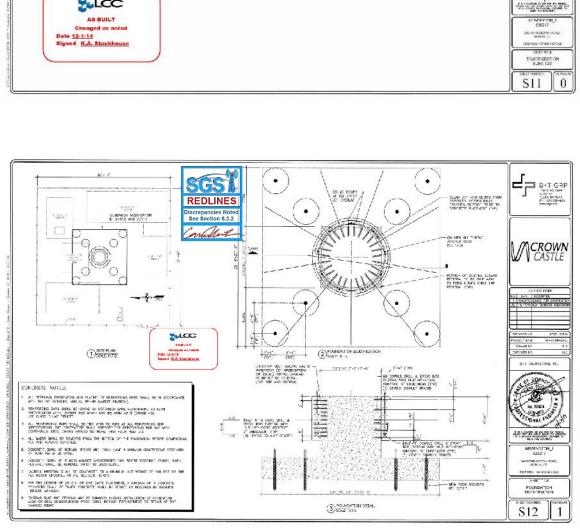


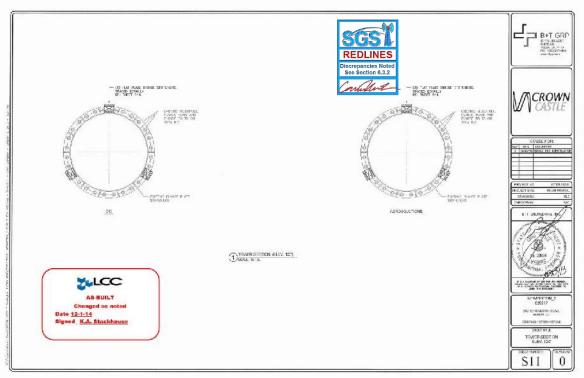


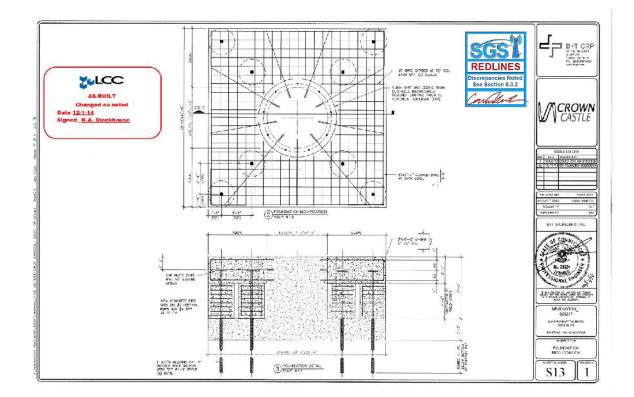


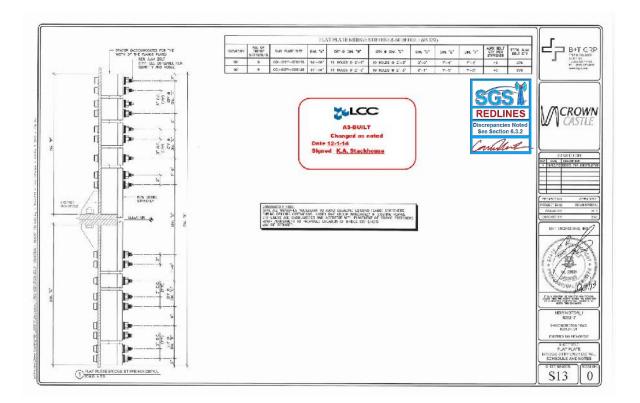


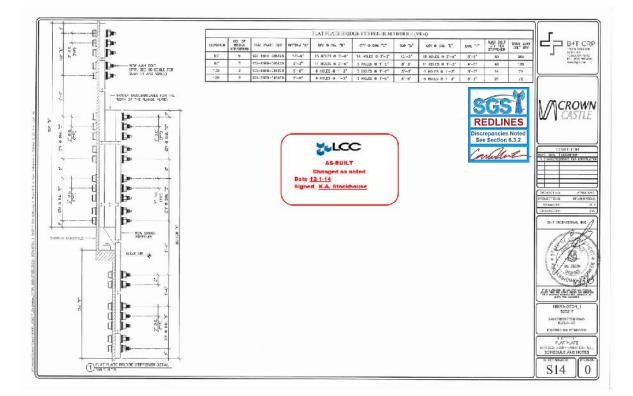


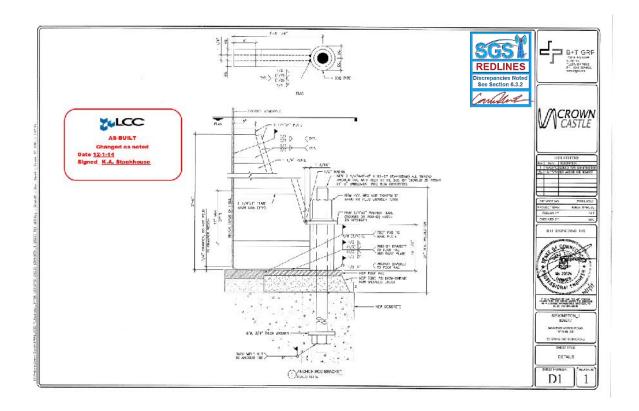












6.3.2 ENGINEER OF RECORD EMAIL

From:	Ali Abbaszadeh
Sent:	Monday, November 24, 2014 11:10 AM
To:	Keith_ Stackhouse
Cc:	SGS MIs; ModInspections; Jorge Forsythe; Bruno, Jerry (Contractor); Matthew_ Novak;
	Rich Taschek; Brenden Foster; Tarry Turner
Subject:	RE: Newington 1 - 826217 - Existing anchor bolts cause conflicts with A/B

Keith,

For the first issue, you can use a thick washer with a clip on one corner to avoid the weld. Let me know if you need more clarification on this.

For the second item, your proposed fix is acceptable.

Thanks, Ali Abbaszadeh, E.I.T., Project Engineer ---1717 South Boulder Ave., Suite 300, Tulsa, Oklahoma 74119 O (918) 587-4630 x 169 + btgrp.com + aabbaszadeh@btgrp.com



From: Keith_Stackhouse [mailto:keith_stackhouse@lcc.com]
Sent: Monday, November 24, 2014 9:59 AM
To: Ali Abbaszadeh
Cc: SGS MIs; ModInspections; Jorge Forsythe; Bruno, Jerry (Contractor); Matthew_ Novak; Rich Taschek; Brenden Foster; Tarry Turner
Subject: Newington 1 - 826217 - Existing anchor bolts cause conflicts with A/B

Hello Ali,

The foreman reported two issues at the abovementioned project, the first issue seems relatively easy; the weld is going to prevent the nut from seating properly. (See snippet) Would it be acceptable to use a washer plate to get the nut above the weld.





The other problem is more complicated, there is a flat bar in the approximate location of one of the A/B; because of this condition. The A/B is pushed up against the existing anchor rod. Would it acceptable to remove portion of the flat bar and add termination bolts above the A/B.(See snippet)





Thanks,

Keith A. Stackhouse Structural Construction Manager



LCC Construction Services 2500 Sylon Blvd. Hainesport, NJ 08036

(Cell) 609-367-6107 keith_stackhouse@lcc.com Keith,

Please go ahead. Please let me know if you have more questions or need further assistance.

Regards,

Hari Rotithor, E.I., Project Engineer

1717 South Boulder Ave., Suite 300, Tulsa, Oklahoma 74119 Office (918) 587-4830 + <u>blare.com</u>

From: Keith_Stackhouse [mailto:keith_stackhouse@lcc.com] Sent: Wednesday, July 23, 2014 4:00 PM To: Hari Rotithor; Jorge Forsythe; Stephen Teti; Klaus Horsch Cc: Robbie Frazier; Santhosha Shanbhogue; Brenden Foster Subject: RE: Newington 1 - 826217 - project#87581.005.01

Hello Hari,

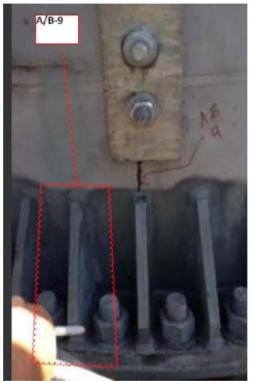
As per our phone conversation,

If possible, can the anchor bracket be welded to the flat bar? Another possibility, can the anchor bracket be cut down to fit under the lower port, this option may cause an issue core drilling the hole with the coax being in the vicinity.

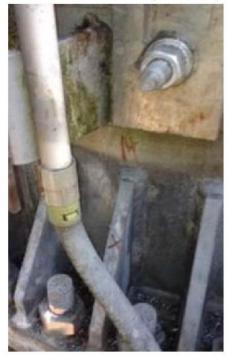
A.B. 1 we had to shift to the left to miss the port.



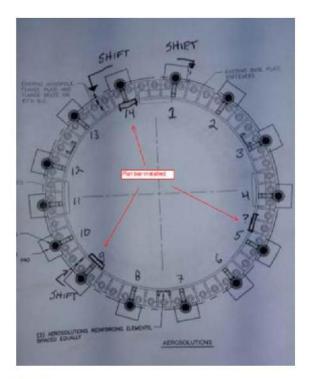
A.B. 9 we have a flat bar in the way.



A.B. 14 we have a flat bar in the way. With lower port to the left



Field sketch from the foreman.



Thanks,

Keith A. Stackhouse Structural Construction Manager



LCC Deployment Services 2242 Old Marlton Pike Marlton,NJ 08053

(Cell) 609-367-6107 keith_stackhouse@lcc.com From: Hari Rotithor [mailto:<u>hrotithor@btgrp.com</u>] Sent: Friday, July 18, 2014 11:40 AM To: <u>keith stackhouse@lcc.com</u>; Jorge Forsythe (<u>iforsythe@telecomcontracting.com</u>); Stephen Teti (<u>stephen teti@lcc.com</u>); Klaus Horsch (<u>klaus horsch@LCC.com</u>) Cc: Robbie Frazier; Santhosha Shanbhogue Subject: RE: Newington 1 - 826217 - project#87581.005.01

Keith,

Please find my response in italics below. Please let me know if you have more questions or need further assistance.

Regards,

Hari Rotithor, E.I., Project Engineer ---1717 South Boulder Ave., Suite 300, Tulsa, Oklahoma 74119 Office (918) 587-4630 + <u>btarp.com</u>

From: Keith_ Stackhouse [mailto:keith_stackhouse@lcc.com] Sent: Tuesday, July 15, 2014 5:38 PM To: Robbie Frazier Cc: Jorge Forsythe; Stephen Teti; Klaus Horsch; Brenden Foster Subject: Newington 1 - 826217 - project#87581.005.01

Hello Robbie,

As per our phone conversation,

1. Because of the existing gussets at the monopole base, we need to start the bar at 9" to clear the gusset. : This is approved.

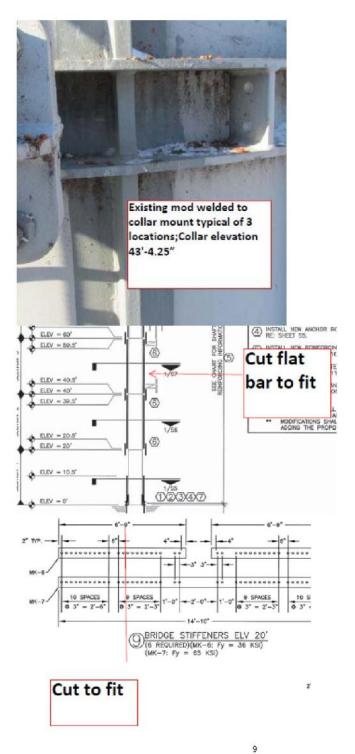
7



2. At approximately 10'-2" there is weld seem on the pole shaft, the weld protrudes out a ¼"; placing shims at 3 hole below the weld seam and termination shim were the bar ends. Would you agree this to a viable solution? : *Please use the shims in the denomination of 1/16" as discussed to clear the weld protrusion.*



3. At 43'-4.25" there is a collar mount that has an existing modification welded to the collar mount, since it is welded; we cannot remove the collar to place the new flat bar mod and bridge stiffeners. (The collar mount is constructed of ½" metal) Would it be acceptable to cut the flat bar to fit, along with the bolt on bridge stiffeners, If we cut the bolt on bridge stiffener, we would have to cut at least 4.5' off(possibly less) and install the cut off above the collar. Would this be a viable solution, as discussed; how much weld would have to be added to the flat bar and how many bolts would have to be added to achieve the structural integrity ? : You informed me that you are going for removal of existing collar and installing new collar which would go on top of new reinforcement. It sounds like a workable plan, however, please don't hesitate to give me a call if you need further assistance.



Hey Keith, Below are my comments for the punch list. #1. It is acceptable. We would recommend providing mapping for the tower since the flanges are off from what is specified in the manufacturing drawings. #6. Acceptable. #8. 18'6" is a typo. It should be 13'3". #9. It is acceptable. #10. It is acceptable.

Please let me know if you have any other questions or concerns.

Rohitash Jain, Project Engineer ---1717 South Boulder Ave., Suite 300, Tulsa, Oklahoma 74119 M (352) 870-8698 + O (918) 587-4630 + btgrp.com

From: Ali Abbaszadeh [mailto:AAbbaszadeh@btgrp.com] Sent: Wednesday, October 15, 2014 9:40 AM To: Donahue, James (Vendor); rich_taschek@lcc.com Cc: D'Amico, Jason (Vendor); Bruno, Jerry (Contractor); Tuttle, Steve; Keith_Stackhouse; Forsythe Jorge; Robbie Frazier Subject: RE: 826217 Newington

Rich,

Thanks,

As we discussed we will need to cut back the square pier to a 7' round pier. I was able to get this to work with only 10 anchor rods as opposed to 14 that was shown originally on the drawings. This is because of the larger bolt circle. The new bolt circle will be 92.25". This should give you enough to clear the pier and install the new rods with 3.5" clear form the existing pier. We will need to sets of hoops (#5) at 5 levels. Also 9 U bars doweled into the pier around each anchor. Also 5 L dowels will be needed between the U dowels. The bottom of the anchor rod will be 3" clear form the 5' deep and 1' wide collar. An oversized washer plate (6" diameter) will be needed secured with a nut on the top and the bottom. Please review attached and let me know if you have any questions.

I will get this into drafting and update the drawing according to the changes.





The other problem is more complicated, there is a flat bar in the approximate location of one of the A/B; because of this condition. The A/B is pushed up against the existing anchor rod. Would it acceptable to remove portion of the flat bar and add termination bolts above the A/B.(See snippet)



3

Thanks,

Keith A. Stackhouse

From: Hari Rotithor [mailto:hrotithor@btgrp.com] Sent: Wednesday, July 23, 2014 3:12 PM To: Keith_ Stackhouse; Jorge Forsythe; Stephen Teti; Klaus Horsch Cc: Robbie Frazier; Santhosha Shanbhogue; Brenden Foster Subject: RE: Newington 1 - 826217 - project#87581.005.01

Keith,

Please find the attached as discussed over the phone. Please let me know if you have more questions or need further assistance.

Regards,

Hari Rotithor, E.I., Project Engineer

1717 South Boulder Ave., Suite 300, Tulsa, Oklahoma 74119 Office (918) 587-4630 + <u>btgrp.com</u>



From: Keith_Stackhouse [mailto:keith_stackhouse@lcc.com] Sent: Tuesday, July 22, 2014 9:06 AM To: Hari Rotithor; Jorge Forsythe; Stephen Teti; Klaus Horsch Cc: Robbie Frazier; Santhosha Shanbhogue; Brenden Foster Subject: RE: Newington 1 - 826217 - project#87581.005.01

Hello Hari,

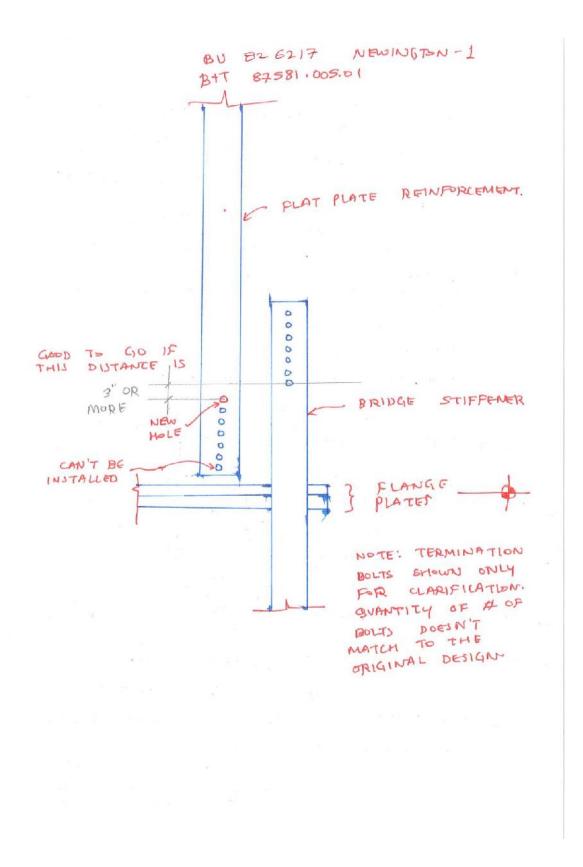
The crew has ran into another issue,

Between the 20' & 40' elevation, they started installing the flat bar; when they tried drilling the very top hole and very bottom hole of the flat bar. They encountered a gusset inside the pole, that prevented them from drilling all the way through(photos attached).

Can we eliminate the very top hole and bottom hole and add a hole to the terminations, so that we would have the correct amount of termination holes; I believe rotating the bars would not be a good option, since they have drilled a lot of holes below the problem area.

This problem may re-occur at other elevations.

1



From:	Rohitash Jain
Sent:	Tuesday, December 30, 2014 9:49 AM
To:	Keith_ Stackhouse
Cc:	SGS_PMI@sgstowers.com; Matthew_ Novak; Robbie Frazier; Bruno, Jerry (Contractor);
	Braden Tabb; Kishore Machani; Jamie Hayes; Amy Tebow; Iccmods; D'Amico, Jason
	(Vendor); Donahue, James (Vendor); Dan Sinnott; Ali Abbaszadeh
Subject:	RE: 826217 - Newington_1 826217 130573 Punch List: B+T Group EOR Approval
	Request 12-26-14 (Urgent)

Categories:

Newington 1 - 826217 - 131099

Hey Keith,

Below are my comments for the punch list. #1. It is acceptable. We would recommend providing mapping for the tower since the flanges are off from what is specified in the manufacturing drawings. #6. Acceptable. #8. 18'6" is a typo. It should be 13'3". #9. It is acceptable. #10. It is acceptable.

Please let me know if you have any other questions or concerns.

Thanks, Rohitash Jain, Project Engineer

1717 South Boulder Ave., Suite 300, Tulsa, Oklahoma 74119 M (352) 870-8698 + O (918) 587-4630 + <u>btgrp.com</u> From: Ali Abbaszadeh [mailto:AAbbaszadeh@btgrp.com]
Sent: Monday, December 29, 2014 4:31 PM
To: Matthew_ Novak; Cameron McElreath
Cc: Robbie Frazier; Bruno, Jerry (Contractor); Braden Tabb; Kishore Machani; Rohitash Jain; Jamie Hayes; Amy Tebow; Iccmods; Donahue, James (Vendor); D'Amico, Jason (Vendor); Keith_ Stackhouse
Subject: RE: 826217 - Newington_1 826217 130573 Punch List: B+T Group EOR Approval Request 12-26-14 (Urgent)

Matt,

As long as the only difference was size of the washers, it is structurally acceptable.

Thank you, Ali Abbaszadeh, E.I.T., Project Engineer 1717 South Boulder Ave., Suite 300, Tulsa, Oklahoma 74119 O (918) 587-4630 x 169 + <u>btcrp.com</u> + <u>aabbaszadeh@btcrp.com</u> ---

From: Cameron McElreath [mailto:<u>cameron.mcelreath@sgstowers.com</u>] Sent: Monday, December 29, 2014 3:06 PM

To: 'Ali Abbaszadeh'

Cc: 'Matthew_ Novak'; 'Robbie Frazier'; 'Bruno, Jerry (Contractor)'; 'Braden Tabb'; 'Kishore Machani'; 'Rohitash Jain'; 'Jamie Hayes'; 'Amy Tebow'; 'Iccmods'; 'Donahue, James (Vendor)'; 'D'Amico, Jason (Vendor)'; 'Keith_ Stackhouse' Subject: RE: 826217 - Newington_1 826217 130573 Punch List: B+T Group EOR Approval Request 12-26-14 (Urgent)

Ali,

Please see attached photos regarding Punch Item 6. There were atypical flat washers installed that were larger than the AJAX Washers.

Regards,

Cameron McElreath SGS Towers 919-819-2938 cameron.mcelreath@sgstowers.com

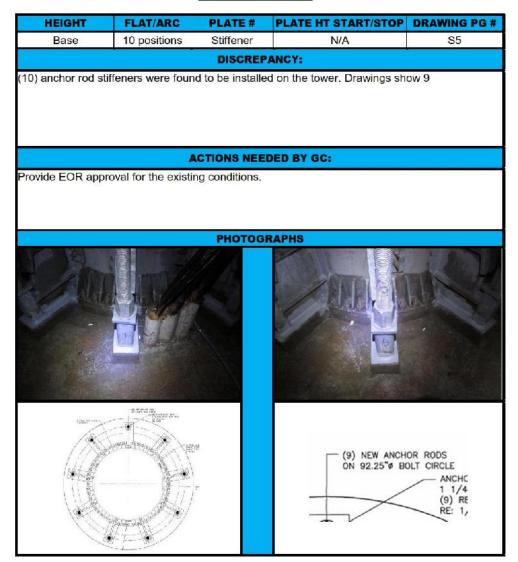
SGS Towers 2 Punch List

PUNCH ITEM 1

HEIGHT	HEIGHT FLAT/ARC PLATE # PLATE HT START/STOP DRAWING PG #						
10 ¾" – 106'-6"	10 ¾" – 106'-6" All 1-6 6" – 105'-6" S4						
		DISCREP	ANCY:				
 Plate 2 obs Plate 3 obs Plate 4 obs Plate 5 obs 	erved at 10 ¾" – erved at 20'-8 ¾" erved at 40'-11 ½ erved at 61'-2 ½" erved at 81'-4 ½"	10'-10 ¾", drav - 39'-8 ¾", drav 2" - 59'-11 ½", - 80'-2 ½", drav - 91'-4 ½", drav	wings specify 6" – 10'-6". awings specify 20'-6" – 39'-6 drawings specify 40'-6" – 59 awings specify 60'-6" – 79'-6 awings specify 80'-6" – 90'-6 ings specify 100'-6" – 105'-6	'-6". "			
	A	CTIONS NEE	DED BY GC:				
		РНОТОС	RAPHS				

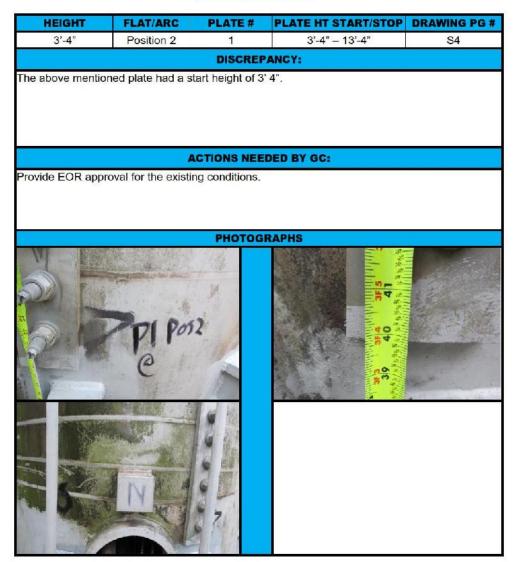
SGS Towers 4 Punch List

PUNCH ITEM 3



SGS Towers 5 Punch List

PUNCH ITEM 4



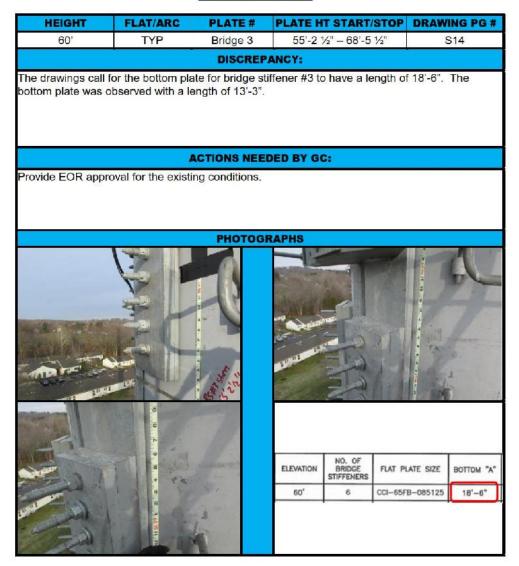
SGS Towers Punch List 7

PUNCH ITEM 6

HEIGHT	FLAT/ARC	PLATE #	PLATE HT START/STOP	DRAWING PG #
60'	All	Bridge 3	55'-5 ½" - 73'-4 ½"	S3
		DISCREP	ANCY:	
Ajax bolts/washers the drawings.	were found in th	e above mentio	oned locations, to be differen	t than specified in
	4	CTIONS NEE	DED BY GC:	
Provide EOR appro	wal for the existi		r install per the modification	drawings.
		РНОТОС	RAPHS	
			ALLE S	
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SGS Towers 9 Punch List

PUNCH ITEM 8



SGS Towers 10 Punch List

PUNCH ITEM 9

HEIGHT	FLAT/ARC	PLA	TE #	PLATE	HT ST	ART/ST	TOP [RAWING PG #
20'	See below	Brid	ge 1	12'-	8 1⁄2" –	27'-6 ½	n	S6
		DIS	CREPA	NCY:				
	all for the newly insta with the following deg				be eve	enly space	ced. B	ridge stiffener #
	Bridge Stiffeners	A-B	B-C	C-D	D-E	E-F	F-A]
	Degree of Sep	65.4"	60.6°	71.1"	53.1°	55.9°	54.0°	
	A	CTIONS	NEED	ED BY	GC:			
Provide EOR a	pproval for the existin	g condi	tions.					
		DU	TOOD	ADUC				
	*	PHO	DTOGR	APHS			- Heart Assoc	
	5- 1		8	23				
- let				0	-			
4 4	=Rack"		8	88	2-			
3	= 4 69			-	-		1	
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Series and Series	A. A. A.	E		1	2=1	E'I	Martin.	
	13.35	12		186		3 8	12'	
and the set		1 Sec	<u>.</u>	11. A	- 24	81	and a	
	man and the state		巖	Er	1000	. Aller	3	Elisabel L'Yes
	D. 12			- 00				
	X IOX			66	IA	- EXISTING	FLANGE	PLATE
2-	2			W.F	MA			
3 -	5 6/24			ISP.		SPACE	D EQUALL	
-	a sit i		8	CON	8	RE: SI	HEET S13.	
	SP and			0 19				
C.				11				
			8	1				
56	13151							
A STATE STATE	11 - 7							

SGS Towers Punch List 11

PUNCH ITEM 10

HEIGHT	FLAT/ARC	PLATE #	PLATE HT	START/STOP	DRAWING PG #
10 ¾"	See below	1	10 3⁄4" -	- 10'-10 ¾"	S6
		DISCREP	ANCY:		
The drawings call he following degr		alled plates to t	e evenly spa	aced. Plate #1	was observed with
	Plate	es A-B	B-C	C-A	
	Degree o	of Sep 126.9	° 115.6°	117.5°	
	A	CTIONS NEE	DED BY GC		
rovide EOR app	roval for the existi	ng conditions.			
		PHOTOGI	RAPHS		
10	3	-1		- EO	INFORCING ELEMENTS, XISTING FLANGE BOLTS N 47"# B.C. EXISTING FLANGE ON 53"# B.C.

6.3.3 PHOTOGRAPHS



6.3.4 POST INSTALLED ANCHOR ROD PULL-OUT TESTING



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

MICROPILE PULL & COMPRESSION TEST REPORT

SITE NAME:	Newington 1
ADDRESS:	240 Kennsington Rd. Berlin, CT
CROWN BU #:	826217
DATE OF TEST	10/02/2014
TECHNICIAN	Joe Gentes
ANCHOR SIZE:	1 3/8"
QUANTITY OF TEST	8
QUANTITY TESTED:	4
GROUT USED:	Euclid NS grout.
WEATHER CONDITIONS:	SUNNY
TEST UNIT:	ENERPAC 200 ton
TEST RESULT # 1:	PASS
COMMENTS:	Pulled to 67 kips and held for 2 minutes
	Pulled to 81 kips and held for 2 minutes Pulled to 90 kips and held for 5 minutes



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Ali Abbaszadeh <aabbaszadeh@btgrp.com></aabbaszadeh@btgrp.com>
Wednesday, December 31, 2014 10:33 AM
Brenden Foster; SGS PMI; Keith_ Stackhouse; Robbie Frazier
ModInspections; Iccmods; Bruno, Jerry (Contractor); Donahue, James (Vendor); D'Amico,
Jason (Vendor); cameron.mcelreath@sgstowers.com
RE: Newington 1 - 826217 - project#87581.005.01 - Close outs

SGS,

90 Kip pull-test looks good to me. Let me know if there is any other concerns.

Thanks, Ali Abbaszadeh, E.I.T., Project Engineer

1717 South Boulder Ave., Suite 300, Tulsa, Oklahoma 74119 O (918) 587-4630 x 169 + <u>btgrp.com</u> + <u>aabbaszadeh@btgrp.com</u>



From: Brenden Foster [mailto:brenden_foster@lcc.com] Sent: Wednesday, December 31, 2014 8:13 AM To: SGS PMI; Keith_ Stackhouse; Robbie Frazier Cc: ModInspections; lccmods; Bruno, Jerry (Contractor); Donahue, James (Vendor); D'Amico, Jason (Vendor); cameron.mcelreath@sgstowers.com Subject: RE: Newington 1 - 826217 - project#87581.005.01 - Close outs

Good morning everyone,

Sorry for the late response I am not sure how this one slipped through the cracks. Please see the attached Rock Anchor Pull test! Please let me know if you need anything else.

Brenden Foster Project Coordinator



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