



April 24, 2019

Members of the Siting Council
Connecticut Siting Council
Ten Franklin Square
New Britain, CT 06051

RE: Notice of Work Complete
277 Huckleberry Rd.
Avon, CT
Sprint Site #: DOMU_CT33XC589
EM-SPRINT-004-180209

Members of the Siting Council:

On behalf of Sprint Spectrum, SBA Communications is hereby notifying the Connecticut Siting Council that work has been completed at the aforementioned telecommunications facility.

Pursuant to the Council's letter of acknowledgement dated March 5, 2018, enclosed, please find documentation certified by a Professional Engineer that the installation complied with the recommendations of the structural analysis.

Thank you,

A handwritten signature in black ink, appearing to read "Kri Pelletier". The signature is stylized and includes a long horizontal line extending to the right.

Kri Pelletier
Property Specialist
SBA Communications Corporation
134 Flanders Rd., Suite 125
Westborough, MA 01581
508-251-0720 x 3804 + T
kpelletier@sbsite.com



Tower Engineering Solutions, LLC

Melanie Bachman
Executive Director
Connecticut Siting Council
10 Franklin Square
New Britain, CT 06051

May 23, 2018

Reference: EM-SPRINT-004-180209 Sprint notice of intent to modify an existing telecommunications facility located at 277 Huckleberry Hill Rd, Avon, Connecticut.

Ms. Bachman,

Tower Engineering Solutions, LLC as the Engineer of Record for SBA Communications Corporation, the owner of the tower referenced above, completed the structural modifications for this tower on April 20, 2018. Pursuant to item 1 of the CSC approval, I have attached a PE stamped Post Modification Inspection Report. This report states that the structural installation complies with the recommendations of the Structural Analysis dated October 2, 2017 and the construction drawings prepared by Tower Engineering Solutions, LLC, TES Job #36667. Sprint may now proceed with their installation of equipment as specified in the structural analysis.

Thank you,

Charlie Douglass, P.E.
Operations Manager
charlie.douglass@testtower.us
214-334-3362 (cell)
469-458-2290 (office)

cc: Kri Pelletier
Property Specialist
SBA Communications Corporation
134 Flanders Rd., Suite 125
Westborough, MA 01581



Tower Engineering Solutions

Phone (972) 483-0607, Fax (972) 975-9615
8445 Freeport Parkway, Suite 375, Irving, Texas 75063

Modification Inspection Report

Existing 100 ft Guyed Laminated Wood Pole

Customer Name: SBA Communications Corp

Customer Site Number: CT46143-A

Customer Site Name: Burlington - Avon Landfill

Carrier Name: Sprint Nextel

Carrier Site ID / Name: CT33XC589 / Burlington-Avon Landfill

Site Location: 277 Huckleberry Hill Road

Avon, Connecticut

Hartford County

Latitude: 41.788055

Longitude: -72.918166

Inspection Result: [Pass]

Report Prepared By : Jie Chen





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Inspection Result: [Pass]

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Introduction and Conclusion

The purpose of this Modification Inspection Report is to confirm that the modification installation has been completed in accordance with the modification drawings listed below. The designed modification includes installing new guy wires at 76'.

Based on our review of the project closeout documents, we have determined that the modification **has been** completed in accordance with the design modification drawings. The noted deviations from the design were approved by TES and are documented in the modification summary below.

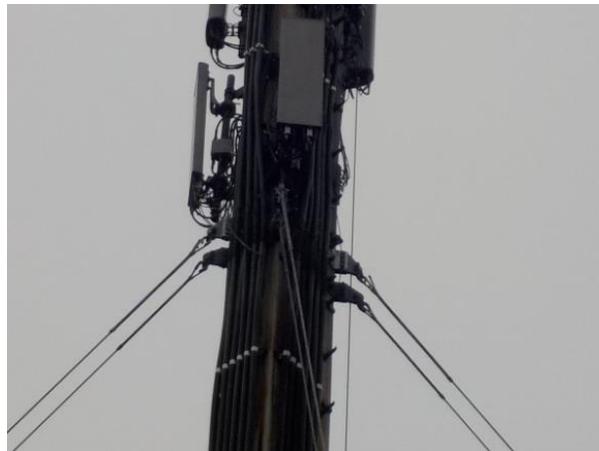
Project Closeout Documents

Modification Design Drawing	TES, Job # 36667, dated 3/19/2018
Contractor As-built Drawing	Dated 4/23/2018
Modification Photos	Dated 4/18/2018

Modification Summary and photos

Elevation 76' – install new guy wires.

Comments: No deficiencies found.





THIS MODIFICATION WAS APPROVED BY THE CONNECTICUT SITING COUNCIL UNDER EM-SPRINT-004-180209 ON MARCH 5, 2018

MODIFICATION AND DESIGN DRAWINGS FOR AN EXISTING 100' GUYED LAMINATED WOOD POLE

PROPOSED CARRIER: SPRINT NEXTEL

SITE: CT46143-A-SBA / BURLINGTON - AVON LANDFILL

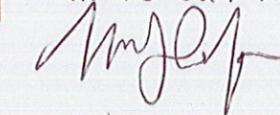
COORDINATES (LATITUDE: 41.788055°, LONGITUDE: -72.918166°)

CONSTRUCTION CLASS

TES HAS DETERMINED THIS AS A CLASS III CONSTRUCTION PROJECT PER ANSI/ASSE A10.48

AS-BUILTS (RED - LINES)

Date: 4/23/18
Name: Neal J. Catalone



MASTEC NETWORK SOLUTIONS



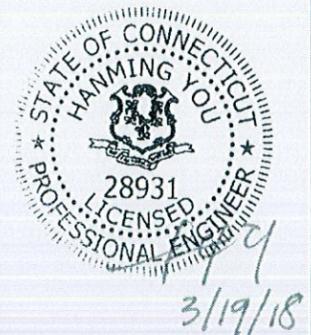
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5900 BROKEN SOUND PARKWAY, NW
BOCA RATON, FL 33487
(800)-487-SITE

TES JOB NO:
36667

CUSTOMER SITE NO:
CT46143-A-SBA
CUSTOMER SITE NAME:
BURLINGTON - AVON LANDFILL
277 HUCKLEBERRY HILL ROAD
AVON, CT 06013



DRAWN BY: DCR CHECKED BY: JC/HA

REV.	DESCRIPTION	BY	DATE
△ 1	FIRST ISSUE	DCR	10/10/17
△ 2	REV: ADD CONFIRMATION	DCR	03/19/18
△ 3			
△ 4			
△ 5			

SHEET TITLE:

TITLE SHEET

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SHEET NUMBER: T-1 REV #: 1

COMPLETE FABRICATION DRAWINGS FOR ALL MATERIALS REQUIRED FOR THIS PROJECT ARE AVAILABLE FROM TOWER ENGINEERING SOLUTIONS (TES). PLEASE CONTACT TES FOR MORE INFORMATION.

SHEET	SHEET TITLE	REV
T-1	TITLE SHEET	1
BOM	BILL OF MATERIALS	1
GN-1	GENERAL NOTES	1
A-1	TOWER PROFILE	1
A-2	NEW GUY LUG ASSEMBLY	1
HC-1	STANDARD GUY HARDWARE CHART	1
TC-1	GUY TENSION CHART	1

NOTE:

- THE MODIFICATION DRAWINGS ARE BASED ON THE TES PROJECT NO. 36505, DATED 07/31/17.

GENERAL NOTES

- ALL WORK SHALL COMPLY WITH THE ANSI/TIA-222-G, ANSI/ASSE A10.48, 2016 CONNECTICUT STATE BUILDING CODE AND ANY OTHER GOVERNING BUILDING CODES AND OSHA SAFETY REGULATIONS.
- ALL WORK INDICATED ON THE DRAWINGS SHALL BE PERFORMED BY QUALIFIED CONTRACTORS EXPERIENCED IN TELECOMMUNICATIONS TOWER, POLE AND FOUNDATION CONSTRUCTION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN AND FABRICATION OF ALL MISCELLANEOUS PARTS (SUCH AS SHIMS), TEMPORARY SUPPORTS, AND GUYINGS, ETC., PER TIA-1019-A, TO COMPLETE THE ASSEMBLY AS SHOWN IN THE DRAWINGS.
- CONTRACTOR SHALL PROCEED WITH THE INSTALLATION WORK CAREFULLY SO THE WORK WILL NOT DAMAGE ANY EXISTING CABLE, EQUIPMENT OR THE STRUCTURE.
- THE USE OF GAS TORCH OR WELDER, ARE NOT ALLOWED ON ANY TOWER STRUCTURE WITHOUT THE CONSENT OF THE TOWER OWNER.
- GENERALLY THE CONTRACTOR IS RESPONSIBLE TO CONDUCT AN ONSITE VISIT SURVEY OF THE JOB SITE AFTER AWARD, AND REPORT ANY ISSUES WITH THE SITE TO TES BEFORE PROCEEDING CONSTRUCTION.

FABRICATION

- ALL STEEL SHALL MEET OR EXCEED THE MINIMUM STRENGTH AS SPECIFIED IN THE DRAWINGS. IF YIELD STRENGTH WAS NOT NOTED IN THE DRAWINGS, CONTRACTORS SHALL CONTACT TES FOR DIRECTION.
- ALL FIELD CUT EDGES SHALL BE GROUND SMOOTH. ALL FIELD CUT AND DRILLED SURFACES SHALL BE REPAIRED WITH A MINIMUM OF TWO COATS OF ZRC GALVILITE COLD GALVANIZING COMPOUND PER ASTM A780 AND MANUFACTURER'S RECOMMENDATIONS.

WELDING

- ALL WELDING SHALL BE PERFORMED BY AWS CERTIFIED WELDERS AND IN ACCORDANCE WITH THE LATEST EDITION OF THE AWS WELDING CODE D1.1. ALL ELECTRODES TO BE LOW HYDROGEN, MATCHING FILLER METAL, PER AWS D1.1, UNO. (E70XX UNLESS NOTED OTHERWISE).
- PRIOR TO FIELD WELDING GALVANIZED MATERIAL, CONTRACTOR SHALL GRIND OFF GALVANIZING APPROX. 0.5" BEYOND THE PROPOSED FIELD WELD SURFACES.
- ALL WELDS SHALL BE INSPECTED VISUALLY. A MINIMUM OF 25% OF WELDS SHALL BE INSPECTED WITH DYE PENETRANT OR MAGNETIC PARTICLE TO MEET THE ACCEPTANCE CRITERIA OF AWS D1.1. 100% OF WELDS SHALL BE INSPECTED IF DEFECTS ARE FOUND.
- WELD INSPECTIONS SHALL BE PERFORMED BY AN AWS CERTIFIED WELD INSPECTOR.
- AFTER INSPECTION, ALL FIELD WELDED SURFACES SHALL BE REPAIRED WITH A MINIMUM OF TWO COATS OF ZRC GALVILITE COLD GALVANIZING COMPOUND PER ASTM A780 AND MANUFACTURER'S RECOMMENDATIONS.

BOLTED ASSEMBLIES AND TIGHTENING OF CONNECTIONS

- ALL HIGH STRENGTH BOLTS SHALL CONFORM TO THE PROVISIONS OF THE SPECIFICATIONS FOR STRUCTURAL JOINTS USING A325 OR A490 BOLTS AS APPROVED BY THE RCSC.
- FLANGE BOLTS SHALL BE TIGHTENED BY THE AISC "TURN-OF-THE-NUT" METHOD. THE FOLLOWING TABLE SHOULD BE USED FOR THE "TURN-OF-THE-NUT" TIGHTENING.
- SPLICE BOLTS AND ALL OTHER BOLTS IN BEARING TYPE CONNECTIONS SHALL BE TIGHTENED TO A SNUG-TIGHT CONDITION.
- THE SNUG-TIGHT CONDITION IS DEFINED AS THE TIGHTNESS ATTAINED BY EITHER A FEW IMPACTS OF AN IMPACT WRENCH OR THE FULL EFFORT OF AN IRONWORKER WITH AN ORDINARY SPUD WRENCH TO BRING THE CONNECTED PLIES INTO FIRM CONTACT.
- HB HOLLO-BOLT SHALL BE INSTALLED PER ICC ESR-3330 INSTRUCTIONS.

VERIFICATION AND INSPECTION

- IF APPLICABLE, VERIFICATION INSPECTION TO BE PERFORMED SHALL BE IN ACCORDANCE TO IBC-2012 SECTION 1705 - TABLE 1705.2.2 FOR STEEL CONSTRUCTION AND TABLE 1705.3 FOR CONCRETE CONSTRUCTION.

POST INSTALLED EPOXY INJECTED ANCHOR BOLTS:

- CONCRETE MUST BE A MINIMUM OF 28 DAYS OLD.
- FOLLOW MANUFACTURER'S REQUIREMENTS FOR CURE TIME VS. AMBIENT TEMPERATURE.
- DRILL HOLE TO REQUIRED DIAMETER AND DEPTH. ALL WATER, DIRT, OIL, DEBRIS, GREASE OR DUST MUST BE REMOVED FROM EACH CORE HOLE. FOLLOW MANUFACTURER'S RECOMMENDATION FOR CORRECT TYPE OF CORE BIT. AVOID DAMAGING EXISTING REINFORCING STEEL OR OTHER EMBEDDED ITEMS. NOTIFY TES ENGINEERING IF VOIDS IN THE CONCRETE, REINFORCING STEEL OR OTHER EMBEDDED ITEMS ARE ENCOUNTERED. STOP CORING IMMEDIATELY IF THIS OCCURS.
- A HOLE ROUGHENING DEVICE FROM EITHER HILTI OR ALLFASTENERS SHALL BE USED WITH ALL HOLES. FOLLOW ALL MANUFACTURER'S RECOMMENDED CORING AND INSTALLATION INSTRUCTIONS.
- AFTER CORING AND ROUGHENING, FLUSH EACH HOLE WITH RUNNING WATER TO REMOVE ANY SLURRY OR DEBRIS. REMOVE ALL WATER FROM THE HOLE BY MECHANICAL PUMPING.
- BRUSH EACH HOLE WITH AN APPROPRIATE SIZED NYLON BRUSH AND FLUSH WITH RUNNING WATER A SECOND TIME. REMOVE ALL WATER FROM THE HOLE.
- AFTER THE SECOND WATER FLUSH BRUSH THE HOLE AGAIN WITH THE APPROPRIATE SIZED NYLON BRUSH.
- BLOW EACH HOLE WITH COMPRESSED AIR TWO TIMES MINIMUM.
- CONFIRM THAT EACH HOLE IS PROPERLY ROUGHED AND DRY.
- NO EPOXY INJECTION SHALL TAKE PLACE IN RAINY CONDITIONS.
- EPOXY SHOULD BE VISIBLE AT THE TOP OF THE CORE HOLE AFTER INSTALLATION.
- CONTRACTOR TO SUPPLY ONE PHOTO OF EACH ROUGHED AND CLEANED HOLE IN CLOSEOUT PHOTO PACKAGE.

TABLE 8.2 NUT ROTATION FROM SNUG-TIGHT CONDITION FOR TURN-OF-NUT PRETENSIONING^{a,b}

BOLT LENGTH ^f	DISPOSITION OF OUTER FACE OF BOLTED PARTS		
	BOTH FACES NORMAL TO BOLT AXIS	ONE FACE NORMAL TO BOLT AXIS, OTHER SLOPED NOT MORE THAN 1:20 ^d	BOTH FACES SLOPED NOT MORE THAN 1:20 FROM NORMAL TO BOLT AXIS ^d
NOT MORE THAN 4d _b	1/3 TURN	1/2 TURN	2/3 TURN
MORE THAN 4d _b BUT NOT MORE THAN 8d _b	1/2 TURN	2/3 TURN	5/6 TURN
MORE THAN 8d _b BUT NOT MORE THAN 12d _b	2/3 TURN	5/6 TURN	1 TURN

^a NUT ROTATION IS RELATIVE TO BOLT REGARDLESS OF THE ELEMENT (NUT OR BOLT) BEING TURNED. FOR REQUIRED NUT ROTATIONS OF 1/2 TURN AND LESS, THE TOLERANCE IS PLUS OR MINUS 30 DEGREES; FOR REQUIRED NUT ROTATIONS OF 2/3 TURN AND MORE, THE TOLERANCE IS PLUS OR MINUS 45 DEGREES.

^b APPLICABLE ONLY TO JOINTS IN WHICH ALL MATERIAL WITHIN THE GRIP IS STEEL.

^c WHEN THE BOLT LENGTH EXCEEDS 12d_b, THE REQUIRED NUT ROTATION SHALL BE DETERMINED BY ACTUAL TESTING IN A SUITABLE TENSION CALIBRATOR THAT SIMULATES THE CONDITIONS OF SOLIDLY FITTING STEEL.

^d BEVELED WASHER NOT USED.

SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS, JUNE 30, 2004 RESEARCH COUNCIL ON STRUCTURAL CONNECTIONS

INSTALLATION TORQUE REQUIRED FOR HOLLO BOLTS AND AJAX BOLTS:

- HB12 HOLLO BOLT: 59 FT-LBS
- HB16 HOLLO BOLT: 140 FT-LBS
- HB20 HOLLO BOLT: 221 FT-LBS
- M20 AJAX BOLT: 280 FT-LBS.

AS-BUILTS (RED - LINES)

Date: 4/23/18
Name: [Signature]

FIELD HOT WORK PLAN NOTES:

FOLLOWING GUIDELINES SHALL BE COMPLIED WITH:

- CONTRACTOR'S RESPONSIBILITY TO COMPLETE A HOT WORK PLAN IF AWARDED PER CUSTOMER SPECIFICATIONS GUIDELINES FOR WELDING, CUTTING & SPARK PRODUCING WORK.
- HAVE A FIRE PLAN APPROVED BY THE CUSTOMER AND THEIR SAFETY MANAGEMENT DEPT.
- CONTRACTOR MUST OBTAIN THE CONTACT INFO OF THE LOCAL FIRE DEPARTMENT AND THE 911 ADDRESS OF THE TOWER SITE BEFORE CONSTRUCTION.
- CONTRACTOR SHALL MAKE SURE THAT CELL PHONE COVERAGE IS AVAILABLE IN THE TOWER SITE. IF CELL COVERAGE IS NOT AVAILABLE, AN IMMEDIATE AVAILABLE MEANS OF DIRECT COMMUNICATION WITH THE FIRE DEPARTMENT SHALL BE DETERMINED PRIOR TO CONSTRUCTION START.
- ALL CONSTRUCTION SHALL BE PERFORMED UNDER WIND SPEED LESS THAN 10 MPH ON THE GROUND LEVEL. IF WIND SPEED INCREASE, CONTRACTOR MUST DETERMINE IF CONSTRUCTION SHALL BE DISCONTINUED.
- FIRE SUPPRESSION EQUIPMENT MUST BE MADE AVAILABLE ON SITE AND READY TO USE.
- CONTRACTOR SHALL ASSIGN A FIRE WATCHER TO PERFORM FIRE-FIGHTING DUTIES.
- ALL WELDERS SHALL BE AWS OR STATE CERTIFIED. THEY MUST ALSO BE EXPERIENCED IN WELDING ON GALVANIZED MATERIALS.
- IF IT IS POSSIBLE, ALL EXISTING COAX NEAR WELDING AREA SHALL BE TEMPORARILY MOVED AWAY FROM THE WELDING AREA BEFORE WELDING THE PLATES.
- PLEASE REPORT ANY FIELD ISSUE TO TES @ 972-483-0607.



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8445 FREEPORT PARKWAY, SUITE 375
IRVING, TX 75063
PH: (972) 483-0607



5900 BROKEN SOUND PARKWAY, NW
BOCA RATON, FL 33487
(800)-487-SITE

TES JOB NO:
36667

CUSTOMER SITE NO:
CT46143-A-SBA
CUSTOMER SITE NAME:
BURLINGTON - AVON LANDFILL
277 HUCKLEBERRY HILL ROAD
AVON, CT 06013

DRAWN BY: DCR CHECKED BY: JC/HA

REV.	DESCRIPTION	BY	DATE
1	FIRST ISSUE	DCR	10/10/17
2	REV: ADD CONFIRMATION	DCR	03/19/18

SHEET TITLE:

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SHEET NUMBER: GN-1 REV #: 1

NOTES:

1. TEMPORARILY RELOCATE ANY EXISTING COAX ATTACHED TO THE WOOD POLE AND ANY OTHER MEMBERS WHERE OBSTRUCTION WITH THE PROPOSED MODIFICATION MAY OCCUR.

NEW AND EXISTING CABLE TAGS TO BE MARKED AT 8% BREAKING STRENGTH



PHOTO 2
CABLE TAGS

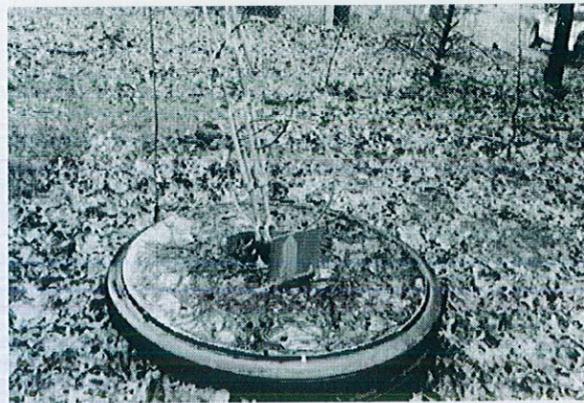
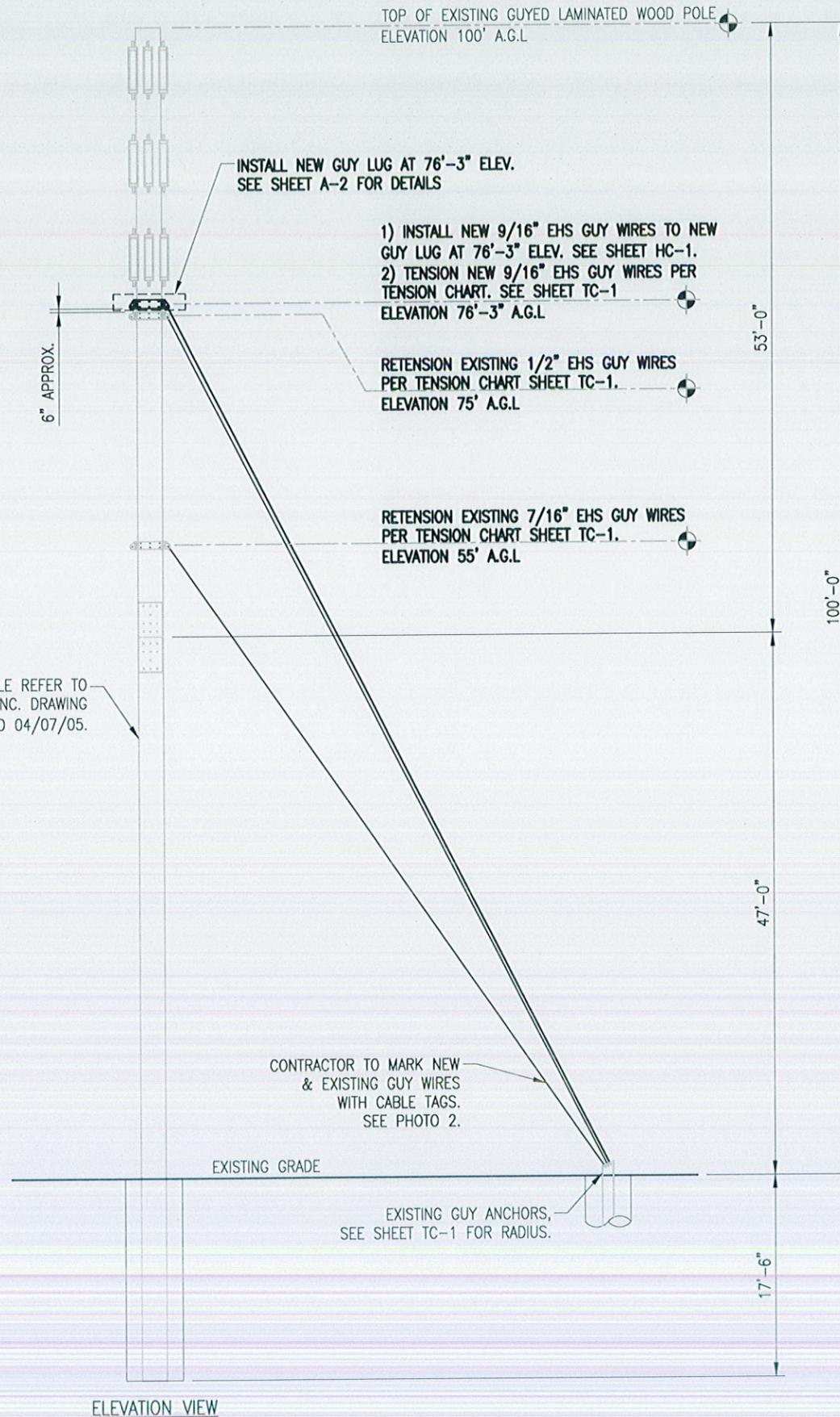


PHOTO 1
GUY ANCHOR FND

FOUNDATION COATING NOTES:

1. THE COATING MATERIALS SHALL BE LANCO WHITE ACRYLIC ELASTOMERIC COATING AND SEALER, OR HYDRO ARMOR COATING.
2. THE COATING CAN BE PLACED AT LEAST (2) DAYS AFTER THE PLACEMENT OF THE CONCRETE FOR FOUNDATION REINFORCEMENT, AND MINIMUM (4) DAYS FOR NEW FOUNDATION CONSTRUCTION.
3. THE CONCRETE SURFACE SHALL BE CLEAN AND DRY PRIOR TO THE APPLICATION OF THE COATING.
4. THE COATING SHALL BE APPLIED TO ALL THE SURFACES OF THE CONCRETE ABOVE THE GROUND AND 6" BELOW THE GRADE SURFACE IF APPLICABLE.
5. MINIMUM 30 MILS COATING IS REQUIRED.

EXISTING WOOD POLE REFER TO LAMINATED WOOD SYSTEMS, INC. DRAWING #SPSM-0079, DATED 04/07/05.



ELEVATION VIEW

AS-BUILTS (RED - LINES)

Date: 4/23/18
Name: [Signature]



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△			
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SHEET TITLE:
TOWER PROFILE

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SHEET NUMBER: A-1	REV #: 1
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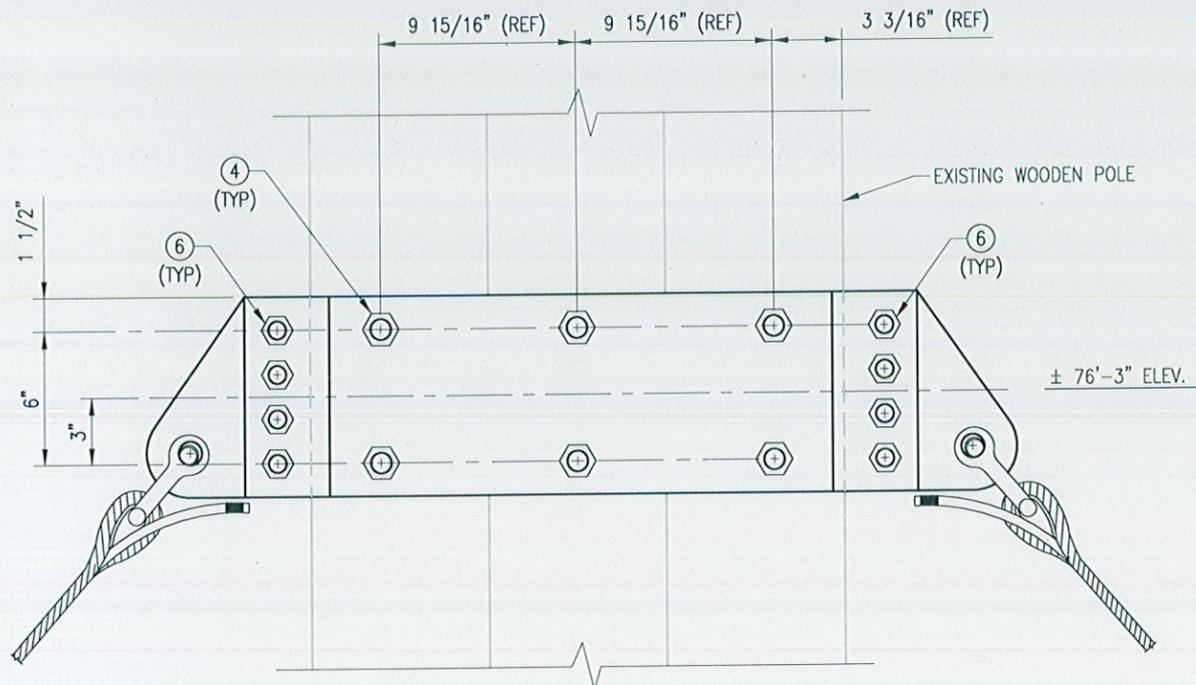
NEW GUY LUG ASSEMBLY

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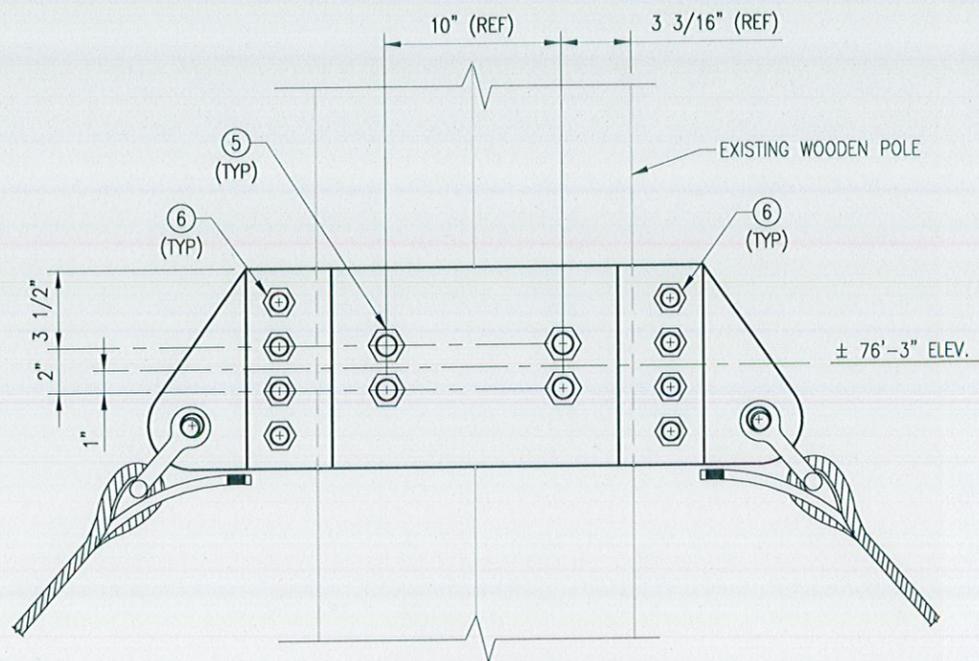
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A-2

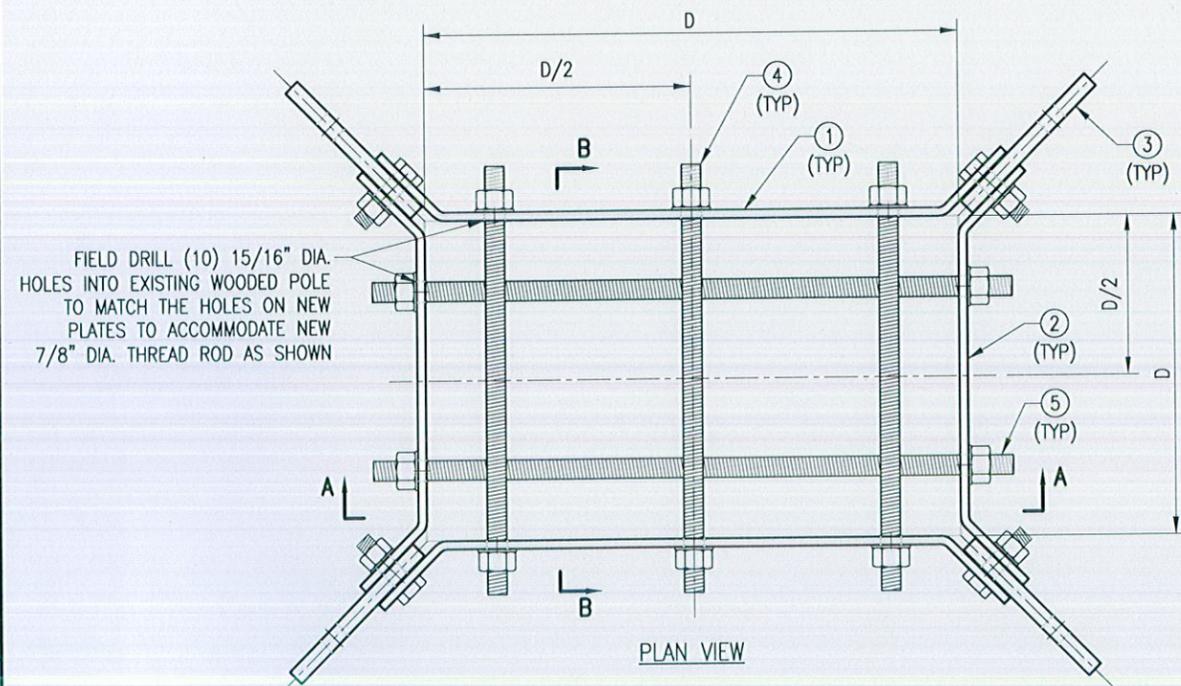
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SECTION "A-A"



SECTION "B-B"



PLAN VIEW

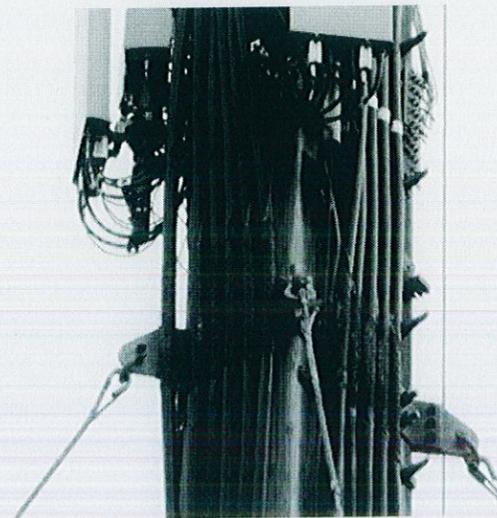


PHOTO 1

AS-BUILTS (RED - LINES)

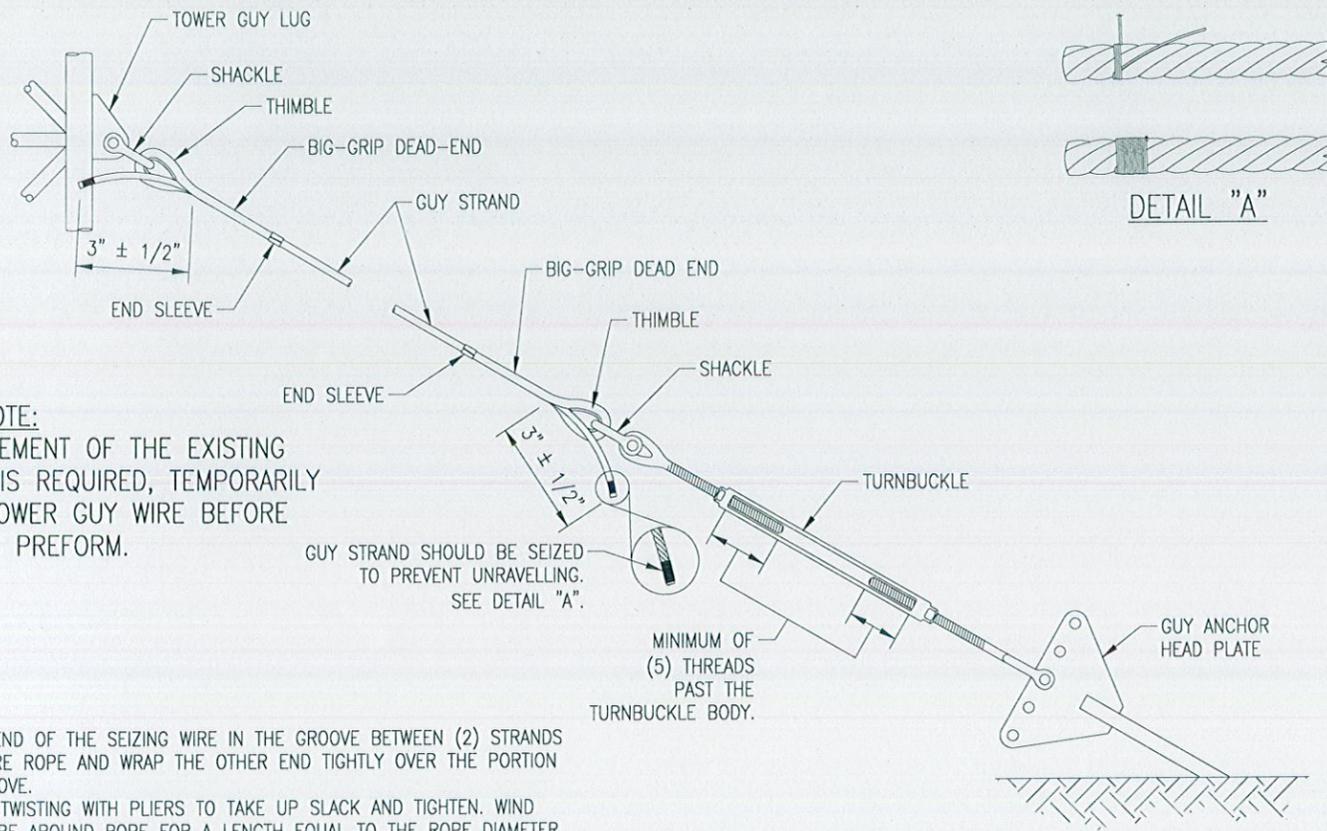
Date: 4/23/18

Name: [Signature]

NOTES:

- TEMPORARILY RELOCATE ANY EXISTING COAX ATTACHED TO THE MONOPOLE AND ANY OTHER MEMBERS WHERE OBSTRUCTION WITH THE PROPOSED MODIFICATION MAY OCCUR.

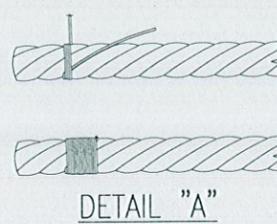
ITEM NO.	QTY.	PART NO.	DESCRIPTION
6	16	---	BOLT 3/4" X 2 3/4" A325
5	4	---	7/8" DIA. X 2'-8" LONG ALL-THREAD ROD A36 W/ (2) HHN-LKW EA.
4	6	---	7/8" DIA. X 1'-10" LONG ALL-THREAD ROD A36 W/ (2) HHN-LKW EA.
3	4	PL-1	PL 3/4" X 7 1/2" X 9" A572-50
2	2	CP-2	PL 3/8" X 9" X 1'-10 3/4" A572-50
1	2	CP-1	PL 3/8" X 9" X 2'-8 5/8" A572-50



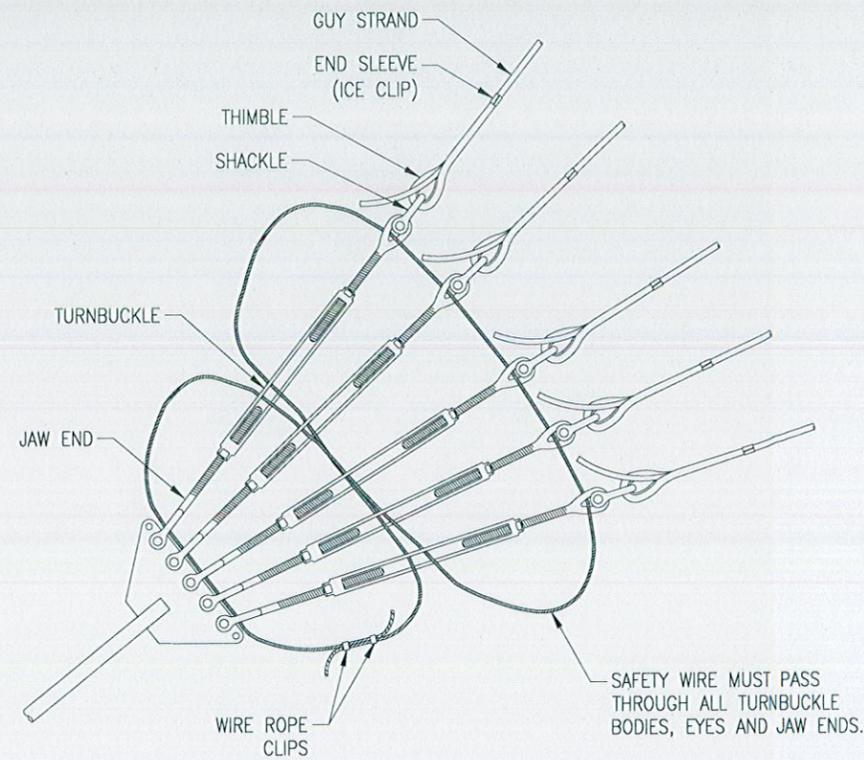
SAFETY NOTE:
IF REPLACEMENT OF THE EXISTING PERFORM IS REQUIRED, TEMPORARILY SECURE TOWER GUY WIRE BEFORE REPLACING PREFORM.

GUY STRAND SHOULD BE SEIZED TO PREVENT UNRAVELLING. SEE DETAIL "A".

1. LAY ONE END OF THE SEIZING WIRE IN THE GROOVE BETWEEN (2) STRANDS IN THE WIRE ROPE AND WRAP THE OTHER END TIGHTLY OVER THE PORTION IN THE GROOVE.
2. CONTINUE TWISTING WITH PLIERS TO TAKE UP SLACK AND TIGHTEN. WIND SEIZING WIRE AROUND ROPE FOR A LENGTH EQUAL TO THE ROPE DIAMETER.
3. TWIST WIRE TIGHTLY AGAINST SERVING, WINDING TWISTED WIRE INTO KNOT BEFORE CUTTING OFF ENDS OF THE WIRE. POUND KNOT SNUGGLY AGAINST THE ROPE.



NOTE:
USE (2) 3/8" WIRE ROPE CLIP PER ANCHOR WITH 3/8" EHS GUY STRAND X 20'-0" FOR TURNBUCKLE SAFETY WIRE INSTALLATION.



TYPICAL TURNBUCKLE SAFETY WIRE INSTALLATION

AS-BUILTS (RED - LINES)

Date: 4/23/18
Name: [Signature]

GUY STRAND HARDWARE CHART

		GUY STRAND INFORMATION									JAW & EYE TURNBUCKLE (CROSBY OR EQUIVALENT, 1 REQ'D PER GUY)				DEAD END GRIP		DEAD END SLEEVE		THIMBLE		SCREW PIN ANCHOR SHACKLE (CROSBY BOLT TYPE OR EQUIVALENT)					
GUY STRAND SIZE	GUY ELEV. (FT)	GUY ANCHOR RADIUS (FT)	GUY ANCH-OR DROP (+/- FT)	NUMBER OF GUY WIRES	REUSE EXISTING GUY WIRES (YES/NO)	NEW GUY WIRE CUT LENGTH (FT)	TOTAL LENGTH (FT)	ULTIMATE LOAD (KIPS)	ALLOWABLE LOAD (KIPS)	SIZE	ULTIMATE LOAD (KIPS)	ALLOWABLE LOAD (KIPS)	PIN DIA.	QTY REQ'D	REQ'D PER GUY:		(2 REQ'D PER GUY)		(2 REQ'D PER GUY)		(2 REQ'D PER GUY)					
															SIZE	COLOR	QTY REQ'D	SIZE	QTY REQ'D	SIZE	QTY REQ'D	SIZE	ULTIMATE LOAD (KIPS)	ALLOWABLE LOAD (KIPS)	PIN DIA.	QTY REQ'D
9/16" EHS	76	40	0	4	NO	106	424	35.0	21.0	7/8 X 18	36.0	21.6	3/4"	4	9/16"	YELLOW	8	9/16"	8	9/16"	8	3/4"	57	34.2	7/8"	8

NOTE:
1. THE GUY STRAND CUT LENGTHS INCLUDE A 5% INCREASE, OR 20', WHICHEVER IS GREATER.



Tower Engineering Solutions
8445 FREEPORT PARKWAY, SUITE 375
IRVING, TX 75063
PH: (972) 483-0607



5900 BROKEN SOUND PARKWAY, NW
BOCA RATON, FL 33487
(800)-487-SITE

TES JOB NO:
36667

CUSTOMER SITE NO:
CT46143-A-SBA
CUSTOMER SITE NAME:
BURLINGTON - AVON LANDFILL
277 HUCKLEBERRY HILL ROAD
AVON, CT 06013

DRAWN BY: DCR	CHECKED BY: JC/HA		
REV.	DESCRIPTION	BY	DATE
△	FIRST ISSUE	DCR	10/10/17
△	REV: ADD CONFIRMATION	DCR	03/19/18
△			
△			
△			

SHEET TITLE:
STANDARD GUY HARDWARE CHART

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SHEET NUMBER: HC-1
REV #: 1

GUY STRAND TENSION CHART

GUY ANCHOR A

GUY STRAND INFORMATION							GUY STRAND TENSION CALCULATED UNDER DIFFERENT TEMPERATURES																				
GUY WIRE SIZE	GUY ELEV. (FT)	GUY ANCHOR RADIUS (FT)	GUY ANCH-OR DROP (+/- FT)	GUY WIRE LENGTH (FT)	Guy Initial Tension (%)	Tension Due To Temp (Lbs/Deg)	0° F	5° F	10° F	15° F	20° F	25° F	30° F	35° F	40° F	45° F	50° F	55° F	60° F	65° F	70° F	75° F	80° F	85° F	90° F	95° F	100° F
							LBS	LBS	LBS	LBS	LBS	LBS	LBS	LBS	LBS	LBS	LBS	LBS	LBS	LBS	LBS	LBS	LBS	LBS	LBS	LBS	LBS
7/16" EHS	55	40	0	68	8	6.79	2071	2038	2004	1970	1936	1902	1868	1834	1800	1766	1732	1698	1,664.0	1630	1596	1562	1528	1494	1460	1426	1392
1/2" EHS	75	40	0	85	8	5.59	2487	2459	2431	2403	2375	2347	2320	2292	2264	2236	2208	2180	2,152.0	2124	2096	2068	2040	2012	1984	1957	1929
9/16" EHS	76	40	0	86	8	6.97	3218	3183	3148	3113	3079	3044	3009	2974	2939	2904	2870	2835	2,800.0	2765	2730	2696	2661	2626	2591	2556	2521

GUY STRAND TENSION CHART

GUY ANCHOR B

GUY STRAND INFORMATION							GUY STRAND TENSION CALCULATED UNDER DIFFERENT TEMPERATURES																				
GUY WIRE SIZE	GUY ELEV. (FT)	GUY ANCHOR RADIUS (FT)	GUY ANCH-OR DROP (+/- FT)	GUY WIRE LENGTH (FT)	Guy Initial Tension (%)	Tension Due To Temp (Lbs/Deg)	0° F	5° F	10° F	15° F	20° F	25° F	30° F	35° F	40° F	45° F	50° F	55° F	60° F	65° F	70° F	75° F	80° F	85° F	90° F	95° F	100° F
							LBS	LBS	LBS	LBS	LBS	LBS	LBS	LBS	LBS	LBS	LBS	LBS	LBS	LBS	LBS	LBS	LBS	LBS	LBS	LBS	LBS
7/16" EHS	55	40	0	68	8	6.79	2071	2038	2004	1970	1936	1902	1868	1834	1800	1766	1732	1698	1,664.0	1630	1596	1562	1528	1494	1460	1426	1392
1/2" EHS	75	40	0	85	8	5.59	2487	2459	2431	2403	2375	2347	2320	2292	2264	2236	2208	2180	2,152.0	2124	2096	2068	2040	2012	1984	1957	1929
9/16" EHS	76	40	0	86	8	6.97	3218	3183	3148	3113	3079	3044	3009	2974	2939	2904	2870	2835	2,800.0	2765	2730	2696	2661	2626	2591	2556	2521

GUY STRAND TENSION CHART

GUY ANCHOR C

GUY STRAND INFORMATION							GUY STRAND TENSION CALCULATED UNDER DIFFERENT TEMPERATURES																				
GUY WIRE SIZE	GUY ELEV. (FT)	GUY ANCHOR RADIUS (FT)	GUY ANCH-OR DROP (+/- FT)	GUY WIRE LENGTH (FT)	Guy Initial Tension (%)	Tension Due To Temp (Lbs/Deg)	0° F	5° F	10° F	15° F	20° F	25° F	30° F	35° F	40° F	45° F	50° F	55° F	60° F	65° F	70° F	75° F	80° F	85° F	90° F	95° F	100° F
							LBS	LBS	LBS	LBS	LBS	LBS	LBS	LBS	LBS	LBS	LBS	LBS	LBS	LBS	LBS	LBS	LBS	LBS	LBS	LBS	LBS
7/16" EHS	55	25	10	51	8	3.36	1866	1849	1832	1815	1798	1782	1765	1748	1731	1714	1698	1681	1,664.0	1647	1630	1614	1597	1580	1563	1546	1530
1/2" EHS	75	25	10	70	8	2.52	2303	2291	2278	2265	2253	2240	2228	2215	2202	2190	2177	2165	2,152.0	2139	2127	2114	2102	2089	2076	2064	2051
9/16" EHS	76	25	10	71	8	3.14	2988	2972	2957	2941	2925	2910	2894	2878	2863	2847	2831	2816	2,800.0	2784	2769	2753	2737	2722	2706	2690	2675

GUY STRAND TENSION CHART

GUY ANCHOR D

GUY STRAND INFORMATION							GUY STRAND TENSION CALCULATED UNDER DIFFERENT TEMPERATURES																				
GUY WIRE SIZE	GUY ELEV. (FT)	GUY ANCHOR RADIUS (FT)	GUY ANCH-OR DROP (+/- FT)	GUY WIRE LENGTH (FT)	Guy Initial Tension (%)	Tension Due To Temp (Lbs/Deg)	0° F	5° F	10° F	15° F	20° F	25° F	30° F	35° F	40° F	45° F	50° F	55° F	60° F	65° F	70° F	75° F	80° F	85° F	90° F	95° F	100° F
							LBS	LBS	LBS	LBS	LBS	LBS	LBS	LBS	LBS	LBS	LBS	LBS	LBS	LBS	LBS	LBS	LBS	LBS	LBS	LBS	LBS
7/16" EHS	55	40	0	68	8	6.79	2071	2038	2004	1970	1936	1902	1868	1834	1800	1766	1732	1698	1,664.0	1630	1596	1562	1528	1494	1460	1426	1392
1/2" EHS	75	40	0	85	8	5.59	2487	2459	2431	2403	2375	2347	2320	2292	2264	2236	2208	2180	2,152.0	2124	2096	2068	2040	2012	1984	1957	1929
9/16" EHS	76	40	0	86	8	6.97	3218	3183	3148	3113	3079	3044	3009	2974	2939	2904	2870	2835	2,800.0	2765	2730	2696	2661	2626	2591	2556	2521



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CUSTOMER SITE NO:
CT46143-A-SBA
CUSTOMER SITE NAME:
BURLINGTON - AVON LANDFILL
277 HUCKLEBERRY HILL ROAD
AVON, CT 06013

AS-BUILTS (RED - LINES)

Date: 4/23/18
Name: [Signature]

DRAWN BY: DCR	CHECKED BY: JC/HA		
REV.	DESCRIPTION	BY	DATE
△	FIRST ISSUE	DCR	10/10/17
△	REV: ADD CONFIRMATION	DCR	03/19/18
△			
△			

SHEET TITLE:
GUY TENSION CHART

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SHEET NUMBER: TC-1
REV #: 1



STATE OF CONNECTICUT

CONNECTICUT SITING COUNCIL

Ten Franklin Square, New Britain, CT 06051

Phone: (860) 827-2935 Fax: (860) 827-2950

E-Mail: siting.council@ct.gov

www.ct.gov/csc

March 5, 2018

Kri Pelletier
Property Specialist
SBA Communications Corporation
134 Flanders Rd., Suite 125
Westborough, MA 01581

RE: **EM-SPRINT-004-180209** - Sprint notice of intent to modify an existing telecommunications facility located at 277 Huckleberry Hill Road, Avon, Connecticut.

Dear Ms. Pelletier:

The Connecticut Siting Council (Council) hereby acknowledges your notice to modify this existing telecommunications facility, pursuant to Section 16-50j-73 of the Regulations of Connecticut State Agencies with the following conditions:

1. The tower shall be reinforced prior to Sprint's construction in accordance with the Structural Analysis Report prepared by Tower Engineering Solutions dated October 2, 2017 and proposed modification design drawing by TES Job # 36667, both stamped by Jaime Reyes on October 2, 2017 and February 7, 2018, respectively; and
2. Within 45 days following completion of the equipment installation, Sprint shall provide documentation certified by a Professional Engineer that its installation complied with the recommendations of the structural analysis.
3. Any deviation from the proposed modification as specified in this notice and supporting materials with the Council shall render this acknowledgement invalid;
4. Any material changes to this modification as proposed shall require the filing of a new notice with the Council;
5. Within 45 days after completion of construction, the Council shall be notified in writing that construction has been completed;
6. Any nonfunctioning antenna and associated antenna mounting equipment on this facility owned and operated by Sprint shall be removed within 60 days of the date the antenna ceased to function;
7. The validity of this action shall expire one year from the date of this letter; and
8. The applicant may file a request for an extension of time beyond the one year deadline provided that such request is submitted to the Council not less than 60 days prior to the expiration.

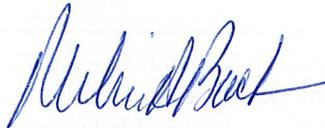
The proposed modifications including the placement of all necessary equipment and shelters within the tower compound are to be implemented as specified here and in your notice dated February 8, 2018. The modifications are in compliance with the exception criteria in Section 16-50j-72 (b) of the Regulations of Connecticut State Agencies as changes to an existing facility site that would not increase tower height, extend the boundaries of the tower site by any dimension, increase noise levels at the tower site boundary by six decibels or more, and increase the total radio frequencies electromagnetic radiation power density measured at the tower site boundary to or above the standards adopted by the Federal Communications Commission



pursuant to Section 704 of the Telecommunications Act of 1996 and by the state Department of Energy and Environmental Protection pursuant to Connecticut General Statutes § 22a-162. This facility has also been carefully modeled to ensure that radio frequency emissions are conservatively below state and federal standards applicable to the frequencies now used on this tower.

This decision is under the exclusive jurisdiction of the Council. Please be advised that the validity of this action shall expire one year from the date of this letter. Any additional change to this facility will require explicit notice to this agency pursuant to Regulations of Connecticut State Agencies Section 16-50j-73. Such notice shall include all relevant information regarding the proposed change with cumulative worst-case modeling of radio frequency exposure at the closest point of uncontrolled access to the tower base, consistent with Federal Communications Commission, Office of Engineering and Technology, Bulletin 65. Thank you for your attention and cooperation.

Sincerely,



Melanie A. Bachman
Executive Director

MAB/FOC/cg

- c: The Honorable Heather Maguire, Chairman, Town of Avon
- Brandon Robertson, Town Manager, Town of Avon
- Hiram Peck, AICP, Director of Planning and Community Development, Town of Avon