

EM-CING-067-090121



New Cingular Wireless PCS, LLC  
500 Enterprise Drive  
Rocky Hill, Connecticut 06067-3900  
Phone: (860) 513-7636  
Fax: (860) 513-7190

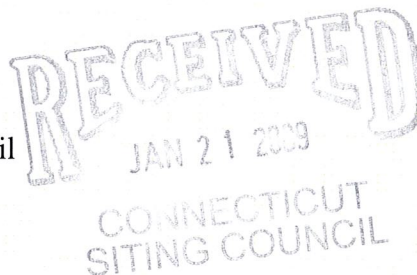
Steven L. Levine  
Real Estate Consultant

HAND DELIVERED

ORIGINAL

January 21, 2009

Honorable Daniel F. Caruso, Chairman,  
and Members of the Connecticut Siting Council  
Connecticut Siting Council  
10 Franklin Square  
New Britain, Connecticut 06051



Re: New Cingular Wireless PCS, LLC notice of intent to modify an existing tele-communications facility located at 107 Buck Road, Hebron (owner, Crown Castle)

Dear Chairman Caruso and Members of the Council:

In order to accommodate technological changes, implement Uniform Mobile Telecommunications System ("UMTS") capability, and enhance system performance in the State of Connecticut, New Cingular Wireless PCS, LLC ("AT&T") plans to modify the equipment configurations at many of its existing cell sites. Please accept this letter and attachments as notification, pursuant to R.C.S.A. Section 16-50j-73, of construction which constitutes an exempt modification pursuant to R.C.S.A. Section 16-50j-72(b)(2). In compliance with R.C.S.A. Section 16-50j-73, a copy of this letter and attachments is being sent to the chief elected official of the municipality in which the affected cell site is located.

UMTS technology offers services to mobile computer and phone users anywhere in the world. Based on the Global System for Mobile (GSM) communication standard, UMTS is the planned worldwide standard for mobile users. UMTS, fully implemented, gives computer and phone users high-speed access to the Internet as they travel. They have the same capabilities even when they roam, through both terrestrial wireless and satellite transmissions.

Attached is a summary of the planned modifications, including power density calculations reflecting the change in AT&T's operations at the site. Also included is documentation of the structural sufficiency of the tower to accommodate the revised antenna configuration.

The changes to the facility do not constitute modifications as defined in Connecticut General Statutes ("C.G.S.") Section 16-50i(d) because the general physical characteristics of the facility will not be significantly changed or altered. Rather, the planned changes to the facility fall squarely within those activities explicitly provided for in R.C.S.A. Section 16-50j-72(b)(2).

1. The height of the overall structure will be unaffected.
2. The proposed changes will not extend the site boundaries. There will be no effect on the site compound other than some enlarged equipment pads as may be noted in the attachments.
3. The proposed changes will not increase the noise level at the existing facility by six decibels or more.
4. Radio frequency power density may increase due to use of one or more GSM channel for UMTS transmissions. However, the changes will not increase the calculated "worst case" power density for the combined operations at the site to a level at or above the applicable standard for uncontrolled environments as calculated for a mixed frequency site.

For the foregoing reasons, New Cingular Wireless respectfully submits that the proposed changes at the referenced site constitute exempt modifications under R.C.S.A. Section 16-50j-72(b)(2).

Please feel free to call me at (860) 513-7636 with questions concerning this matter. Thank you for your consideration.

Sincerely,



Steven L. Levine  
Real Estate Consultant

Attachments

**NEW CINGULAR WIRELESS  
Equipment Modification**

107 Buck Road, Hebron  
Site Number 5867  
Former AT&T cell site  
Exempt Modification approved 7/02

**Tower Owner/Manager:** Crown Castle

**Equipment Configuration:** Monopine

**Current and/or Approved:** Three Allgon 7250 panel antennas @ 87 ft AGL  
Six runs 7/8 inch coax cable  
Concrete pad with outdoor equipment cabinets

**Planned Modifications:** Remove all existing antennas  
Install low profile platform @ 87 ft  
Install six Powerwave 7770 antennas (or equivalent) @ 87 ft  
Install six TMA's and six diplexers @ 87 ft  
Install six additional runs 7/8 inch coax  
Remove one existing cabinet  
Install one new outdoor cabinet for UMTS

**Power Density:**

Worst-case calculations for existing wireless operations at the site indicate a radio frequency electromagnetic radiation power density, measured at ground level beside the tower, of approximately 48.2 % of the standard adopted by the FCC. As depicted in the second table below, the total radio frequency electromagnetic radiation power density following proposed modifications would be approximately 61.1 % of the standard.

**Existing**

Company	Centerline Ht (feet)	Frequency (MHz)	Number of Channels	Power Per Channel (Watts)	Power Density (mW/cm <sup>2</sup> )	Standard Limits (mW/cm <sup>2</sup> )	Percent of Limit
Other Users *							43.40
AT&T GSM *	87	1900 Band	4	250	0.0475	1.0000	4.75
<b>Total</b>							<b>48.2%</b>

\* Per CSC records

### Proposed

Company	Centerline Ht (feet)	Frequency (MHz)	Number of Channels	Power Per Channel (Watts)	Power Density (mW/cm <sup>2</sup> )	Standard Limits (mW/cm <sup>2</sup> )	Percent of Limit
Other Users *							43.40
AT&T UMTS	87	880 - 894	1	500	0.0238	0.5867	4.05
AT&T GSM	87	1900 Band	2	427	0.0406	1.0000	4.06
AT&T GSM	87	880 - 894	4	296	0.0562	0.5867	9.59
<b>Total</b>							<b>61.1%</b>

\* Per CSC records

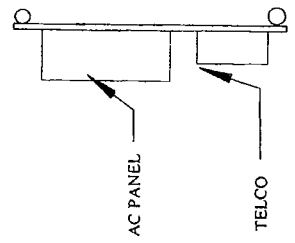
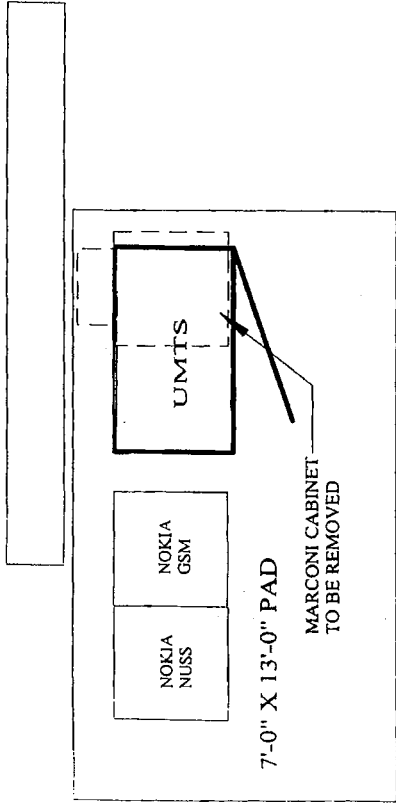
### Structural information:

The attached structural analysis demonstrates that the tower and foundation will have adequate structural capacity to accommodate the proposed equipment modifications upon completion of recommended structural modifications to the tower. (GPD Group, 12/30/08)



SITE NUMBER  
5867  
SITE NAME  
Hebron West

TITLE:	EQUIPMENT PLAN
MISC. INFO:	
DWG. BY:	SGB
DATE:	07/07/08
SCALE:	N.T.S.
SHEET:	1 OF 1





New Cingular Wireless PCS, LLC  
500 Enterprise Drive  
Rocky Hill, Connecticut 06067-3900  
Phone: (860) 513-7636  
Fax: (860) 513-7190

**Steven L. Levine**  
Real Estate Consultant

January 21, 2009

Jared S. A. Clark, Town Manager  
Town of Hebron  
Town Office Bldg., 15 Gilead Street  
Hebron, CT 06248

Re: Telecommunications Facility – Buck Road

Dear Mr. Clark:

In order to accommodate technological changes, implement Uniform Mobile Telecommunications System (“UMTS”) capability, and enhance system performance in the State of Connecticut, New Cingular Wireless PCS, LLC (“AT&T”) will be changing its equipment configuration at certain cell sites.

As required by Regulations of Connecticut State Agencies (“R.C.S.A.”) Section 16-50j-73, the Connecticut Siting Council has been notified of the changes and will review AT&T’s proposal. Please accept this letter as notification under Section 16-50j-73 of construction which constitutes an exempt modification pursuant to R.C.S.A. Section 16-50j-72(b)(2).

The accompanying letter to the Siting Council fully describes AT&T’s proposal for the referenced cell site. However, if you have any questions or require any further information on our plans or the Siting Council’s procedures, please call me at (860) 513-7636 or Mr. Derek Phelps, Executive Director, Connecticut Siting Council at (860) 827-2935.

Sincerely,

Steven L. Levine  
Real Estate Consultant

Enclosure

Date: **December 30, 2008**

John Eigenbrode  
Crown Castle USA Inc.  
3530 Toringdon Way, Suite 300  
Charlotte, NC 28277  
704-405-6616



GPD Group  
520 South Main Street, Suite 2531  
Akron, OH 44311  
330-572-2289  
[jstokes@gpdgroup.com](mailto:jstokes@gpdgroup.com)

**Subject:** Revised Structural Analysis Report

**Carrier Designation:** AT&T Mobility Co-Locate  
Carrier Site Name: Hebron - Buck Road  
Carrier Site Number: 5867

**Crown Castle Designation:** Crown Castle BU Number: 876387  
Crown Castle Site Name: South Hebron / Ned Ellis Prop.  
Crown Castle JDE Job Number: 111865  
Crown Castle Work Order Number: 239349

**Engineering Firm Designation:** GPD Group Project Number: 2008282.03

**Site Data:** 107 Buck Rd., Hebron, CT 06248, Tolland County  
Latitude 41° 39' 16.02", Longitude -72° 24' 39.11"  
119.5 Foot – Engineered Endeavors Inc. Monopine Tower

Dear Mr. John Eigenbrode,

GPD Associates is pleased to submit this "**Revised Structural Analysis Report**" to determine the structural integrity of the above mentioned tower. This analysis has been performed in accordance with the Crown Castle Structural 'Statement of Work' and the terms of Crown Castle Purchase Order Number 310183, in accordance with application 70510, revision 1.

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

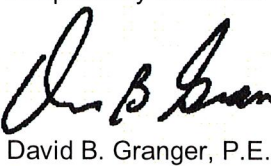
LC1: Existing + Reserved + Proposed Equipment **Sufficient Capacity**  
Note: See Table I and Table II for the proposed and existing/reserved loading, respectively.

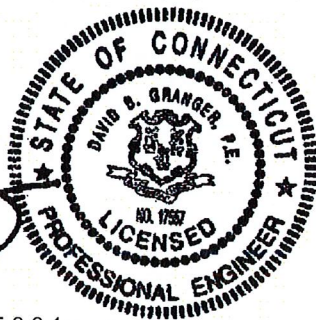
The analysis has been performed in accordance with the TIA/EIA-222-F standard and the Connecticut Building Code based upon a wind speed of 85 mph fastest mile.

**All modifications and equipment proposed in this report shall be installed in accordance with the attached drawings by GPD Associates (Project #: 2008282.56, dated 12/4/08, see Appendix D) for the determined available structural capacity to be effective.**

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

Respectfully submitted by:

  
David B. Granger, P.E.  
Connecticut #: 17557



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## 1) INTRODUCTION

The existing monopole has 18 sides and is evenly tapered from 51" (flat-flat) at the base to 19" (flat-flat) at the top. It has three major sections connected by two slip joints. The structure is galvanized and has no tower lighting.

The tower was originally designed for Sprint PCS by Engineered Endeavors, Inc. of Mentor, Ohio for a 90 mph wind speed with 1/2" (25% reduction) radial ice in accordance with EIA/TIA-222-F.

Modifications designed by GPD Associates (Project #: 2008282.56, dated 12/4/08) consisted of installing stiffeners to the base plate. These modifications have been considered in this analysis.

## 2) ANALYSIS CRITERIA

The structural analysis was performed for this tower in accordance with the requirements of TIA/EIA-222-F Structural Standards for Steel Antenna Towers and Antenna Supporting Structures using a fastest mile wind speed of 85 mph with no ice, 74 mph with 0.5 inch ice thickness and 60 mph under service loads.

**Table 1 - Proposed Antenna and Cable Information**

Mounting Level (ft)	Center Line Elevation (ft)	Number of Antennas	Antenna Manufacturer	Antenna Model	Number of Feed Lines	Feed Line Size (in)	Note
87	87	6	Powerwave	7770.00	6	7/8	
		6	Powerwave	LGP21401 TMA's			
		6	Powerwave	LGP21901 Diplexers			
		3		12' T-Arms			

**Table 2 - Existing and Reserved Antenna and Cable Information**

Mounting Level (ft)	Center Line Elevation (ft)	Number of Antennas	Antenna Manufacturer	Antenna Model	Number of Feed Lines	Feed Line Size (in)	Note
117	117	6	Decibel	DB980H90E-M	6	1-5/8	2
		3		12' T-arms			
114	114	1	EI	Artificial Branches (Large)			
107	107	12	Decibel	DB844H90	12	1-5/8	
		3		12' T-arms			
104	104	1	EI	Artificial Branches (Large)			
97	97	12	Decibel	DB844H90	12	1-5/8	
		3		12' T-arms			
94	94	1	EI	Artificial Branches (Large)			
87	87	3	Allgon	7250.03	6	7/8	1
		1		Tri-Bracket			
84	84	1	EI	Artificial Branches (Large)			
77	77	1	EI	Artificial Branches (Small)			

Notes:

- 1) Installed feedlines to be reused for proposed antennas. All other equipment to be removed prior to installing proposed loading.
- 2) Both existing with reserved and MLA loading were considered. The MLA loading is controlling.

**Table 3 - Design Antenna and Cable Information**

Mounting Level (ft)	Center Line Elevation (ft)	Number of Antennas	Antenna Manufacturer	Antenna Model	Number of Feed Lines	Feed Line Size (in)	Note
117.5	117.5	12	Dapa	48000			
		3		12' T-Arms			
107.5	107.5	12	Dapa	48000			1
		3		12' T-Arms			
97.5	97.5	12	Dapa	48000			1
		3		12' T-Arms			

Notes:

- 1) Future loading

### 3) ANALYSIS PROCEDURE

**Table 4 - Documents Provided**

Document	Remarks	Reference	Source
Original Tower Drawings	Engineered Endeavors, Inc., Job #: 8058, dated 10/18/200	Doc ID #:1613574	Crown DMZ
Previous Analysis	Semaan Engineering, Site #: CT33XC560, dated 8/29/2002	Doc ID #:1792515	Crown DMZ
Geotechnical Report	Goodkind & O'Dea, Inc., Site #: CT33XC560, dated 8/2000	Doc ID #:157932	Crown DMZ
Modification Drawings	Project #: 2008282.56, dated 12/4/08	J. Cheronis	GPD

#### 3.1) Analysis Method

RISATower (version 5.3.0.1), a commercially available analysis software package, was used to create a three-dimensional model of the tower and calculate member stresses for various loading cases. Selected output from the analysis is included in Appendix A.

#### 3.2) Assumptions

- 1) Tower and structures were built in accordance with the manufacturer's specifications.
- 2) The tower and structures have been maintained in accordance with the manufacturer's specification.
- 3) The configuration of antennas, transmission cables, mounts and other appurtenances are as specified in Tables 1 and 2 and the referenced drawings.
- 4) When applicable, transmission cables are considered as structural components for calculating wind loads as allowed by TIA/EIA-222-F.

This analysis may be affected if any assumptions are not valid or have been made in error. GPD Associates should be notified to determine the effect on the structural integrity of the tower.

**4) ANALYSIS RESULTS**

**Table 5 - Section Capacity (Summary)**

Section No.	Elevation (ft)	Component Type	Size	Critical Element	P (K)	SF*P_allow (K)	% Capacity	Pass / Fail
L1	119.5 - 69.67	Pole	TP33.02x19x0.3125	1	-15.15	1618.94	77.2	Pass
L2	69.67 - 42.25	Pole	TP39.99x31.0839x0.375	2	-20.83	2356.80	91.1	Pass
L3	42.25 - 0	Pole	TP51x37.7131x0.4375	3	-33.76	3605.46	88.6	Pass
							Summary	
						Pole (L2)	91.1	Pass
						Rating =	91.1	Pass

**Table 6 - Tower Component Stresses vs. Capacity - LC1**

Notes	Component	% Capacity	Pass / Fail
1	Anchor Rods	84.1%	Pass
1	Base Plate	63.3%	Pass
1	Base Foundation	54.1%	Pass

Notes:

- 1) See additional documentation in "Appendix C – Additional Calculations" for calculations supporting the % capacity consumed.

<b>Structure Rating (max from all components) =</b>	<b>91.1%</b>
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**4.1) Recommendations**

The design of the existing tower and its foundations will be satisfactory for the proposed loading once the modifications by GPD Associates (Project #: 2008282.56, dated 12/4/08) are installed.

## 5) DISCLAIMER OF WARRANTIES

GPD ASSOCIATES has not performed a site visit to the tower to verify the member sizes or antenna/coax loading. If the existing conditions are not as represented on the tower elevation contained in this report, we should be contacted immediately to evaluate the significance of the discrepancy. This is not a condition assessment of the tower or foundation. This report does not replace a full tower inspection. The tower and foundations are assumed to have been properly fabricated, erected, maintained, in good condition, twist free, and plumb.

The engineering services rendered by GPD ASSOCIATES in connection with this Structural Analysis are limited to a computer analysis of the tower structure and theoretical capacity of its main structural members. All tower components have been assumed to only resist dead loads when no other loads are applied. No allowance was made for any damaged, bent, missing, loose, or rusted members (above and below ground). No allowance was made for loose bolts or cracked welds.

GPD ASSOCIATES does not analyze the fabrication of the structure (including welding). It is not possible to have all the very detailed information needed to perform a thorough analysis of every structural sub-component and connection of an existing tower. GPD ASSOCIATES provides a limited scope of service in that we cannot verify the adequacy of every weld, plate connection detail, etc. The purpose of this report is to assess the feasibility of adding appurtenances usually accompanied by transmission lines to the structure.

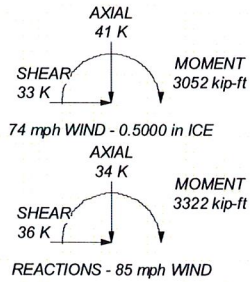
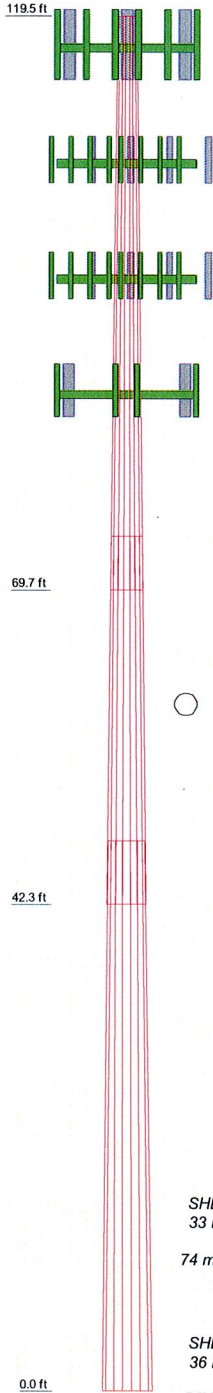
It is the owner's responsibility to determine the amount of ice accumulation, if any, that should be considered in the structural analysis.

The attached sketches are a schematic representation of the analyzed tower. If any material is fabricated from these sketches, the contractor shall be responsible for field verifying the existing conditions, proper fit, and clearance in the field. Any mentions of structural modifications are reasonable estimates and should not be used as a precise construction document. Precise modification drawings are obtainable from GPD ASSOCIATES, but are beyond the scope of this report.

Miscellaneous items such as antenna mounts, etc., have not been designed or detailed as a part of our work. We recommend that material of adequate size and strength be purchased from a reputable tower manufacturer.

GPD ASSOCIATES makes no warranties, expressed and/or implied, in connection with this report and disclaims any liability arising from material, fabrication, and erection of this tower. GPD ASSOCIATES will not be responsible whatsoever for, or on account of, consequential or incidental damages sustained by any person, firm, or organization as a result of any data or conclusions contained in this report. The maximum liability of GPD ASSOCIATES pursuant to this report will be limited to the total fee received for preparation of this report.

Section	1	2	3
Length (ft)	48.83	32.08	47.75
Number of Sides	18	18	18
Thickness (in)	0.3125	0.3750	0.4375
Lap Splice (ft)		5.50	
Top Dia (in)	19.0000	31.0886	37.7131
Bot Dia (in)	33.0200	39.6900	51.0000
Grade		A572-65	
Weight (K)	4.3	4.6	9.9



### DESIGNED APPURTENANCE LOADING

TYPE	ELEVATION	TYPE	ELEVATION
12' T-arms (3)	117	2008282.03 Branches (Large)	94
(3) FV65-14-00NA2 (MLA)	117	(2) 7770.00 w/Mount Pipe	87
(3) FV65-14-00NA2 (MLA)	117	(2) LGP21401	87
(3) FV65-14-00NA2 (MLA)	117	(2) LGP21401	87
2008282.03 Branches (Large)	114	(2) LGP21401	87
(4) DB844H90 w/ Mount Pipe	107	(2) LGP219nn Diplexer	87
(4) DB844H90 w/ Mount Pipe	107	(2) LGP219nn Diplexer	87
(4) DB844H90 w/ Mount Pipe	107	(2) LGP219nn Diplexer	87
12' T-arms (3)	107	12' T-arms (3)	87
2008282.03 Branches (Large)	104	(2) 7770.00 w/Mount Pipe	87
(4) DB844H90 w/ Mount Pipe	97	(2) 7770.00 w/Mount Pipe	87
(4) DB844H90 w/ Mount Pipe	97	2008282.03 Branches (Large)	84
12' T-arms (3)	97	2008282.03 Branches (Small)	77
(4) DB844H90 w/ Mount Pipe	97		

### MATERIAL STRENGTH

GRADE	Fy	Fu	GRADE	Fy	Fu
A572-65	65 ksi	80 ksi			

### TOWER DESIGN NOTES

1. Tower is located in Tolland County, Connecticut.
2. Tower designed for a 85 mph basic wind in accordance with the TIA/EIA-222-F Standard.
3. Tower is also designed for a 74 mph basic wind with 0.50 in ice.
4. Deflections are based upon a 60 mph wind.
5. TOWER RATING: 91.1%

**GPD Associates**  
 520 South Main St. Suite 2531  
 Akron, Ohio  
 Phone: 330-572-2100  
 FAX: 330-572-2101

Job: **S. Hebron/Ned Ellis Prop, BU #: 876387**  
 Project: **GPD #: 2008282.03**  
 Client: **Crown Castle USA, Inc.** Drawn by: **Mark Zilli** App'd:  
 Code: **TIA/EIA-222-F** Date: **11/11/08** Scale: **NTS**  
 Path: **G:\IT\ecm\2008282\03\RISA\3RISA.rvt** Dwg No. **E-1**

**APPENDIX D**  
**MODIFICATION DESIGN DRAWINGS**



REV.	DATE	DESCRIPTION

PROJECT NOTES  
 SOUTH HEBRON / MED ELLIS PROP.  
 CROWN CASTLE  
 HEBRON, CT 06248

DATE	
ISSUED	

2008282.56

N-1

**WELD NOTES**

1. ALL CUTTING AND WELDING ACTIVITIES SHALL BE CONDUCTED IN ACCORDANCE WITH THE LATEST CODES THROUGHOUT THE DURATION OF THE PROJECT.
2. PRIOR TO COMMENCEMENT OF CONSTRUCTION, THE CONTRACTOR SHALL PERFORM A NONDESTRUCTIVE TEST (NDT) OF ALL WELDS TO BE MADE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COST OF ALL NDT TESTING. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COST OF ALL WELDING MATERIALS AND SUPPLIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COST OF ALL WELDING LABOR.
3. WELDED CONNECTIONS MUST BE STRENGTHENED PRIOR TO WELDING. CONTRACTOR TO BE RESPONSIBLE FOR THE COST OF ALL WELDING MATERIALS AND SUPPLIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COST OF ALL WELDING LABOR.
4. ONLY FUEL GAS WELDING OR BRACING IS STRICTLY PROHIBITED.
5. ALL WELDS SHALL BE MADE IN ACCORDANCE WITH THE LATEST CODES THROUGHOUT THE DURATION OF THE PROJECT.
6. WELDED CONNECTIONS MUST BE STRENGTHENED PRIOR TO WELDING. CONTRACTOR TO BE RESPONSIBLE FOR THE COST OF ALL WELDING MATERIALS AND SUPPLIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COST OF ALL WELDING LABOR.
7. ALL WELDS SHALL BE MADE IN ACCORDANCE WITH THE LATEST CODES THROUGHOUT THE DURATION OF THE PROJECT.
8. WELDED CONNECTIONS MUST BE STRENGTHENED PRIOR TO WELDING. CONTRACTOR TO BE RESPONSIBLE FOR THE COST OF ALL WELDING MATERIALS AND SUPPLIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COST OF ALL WELDING LABOR.
9. ALL WELDS SHALL BE MADE IN ACCORDANCE WITH THE LATEST CODES THROUGHOUT THE DURATION OF THE PROJECT.
10. WELDED CONNECTIONS MUST BE STRENGTHENED PRIOR TO WELDING. CONTRACTOR TO BE RESPONSIBLE FOR THE COST OF ALL WELDING MATERIALS AND SUPPLIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COST OF ALL WELDING LABOR.
11. ALL WELDS SHALL BE MADE IN ACCORDANCE WITH THE LATEST CODES THROUGHOUT THE DURATION OF THE PROJECT.

**GENERAL NOTES**

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL AUTHORITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COST OF ALL PERMITS AND APPROVALS.
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12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL AUTHORITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COST OF ALL PERMITS AND APPROVALS.

**CONTRACTOR NOTES**

1. ALL CONTRACTORS AND SUBSIDIARIES SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL AUTHORITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COST OF ALL PERMITS AND APPROVALS.
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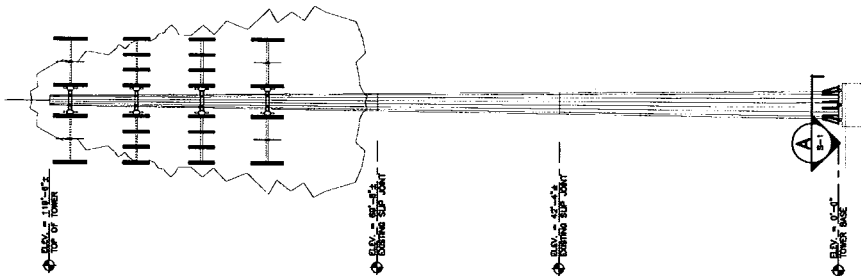
BLP# 876387

TOWER MODIFICATION SCHEDULE		NOTES
ELEVATION	0'-0"	
INSTALL NEW STIFFENER PLATES (PYS #2, #4) TO THE BASE PLATE REFER TO SECTION A-2-1 FOR MODIFICATION DETAILS.		

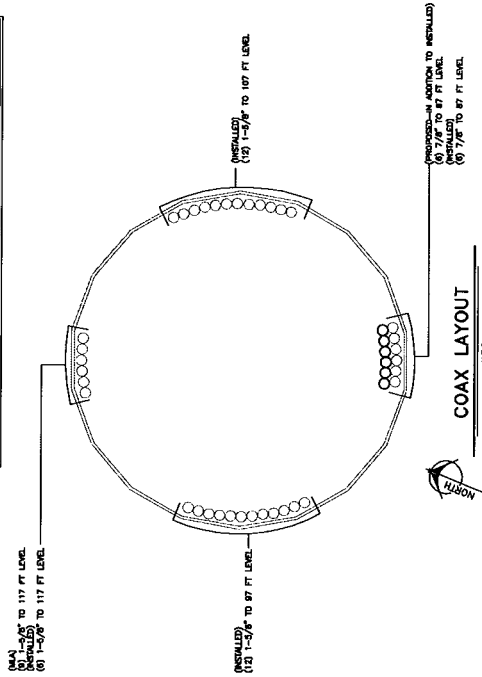
ELEVATION	STATUS	ANTENNA	MOUNT	COM
117'	EXISTING	(5) DIRECTIONAL	(3) 12" T-ARMS	(8) 1-5/8"
114'	EXISTING	(4) AMPERIAL BRANCHES (LARGE)		
107'	EXISTING	(10) DIRECTIONAL	(2) 12" T-ARMS	(12) 1-5/8"
104'	EXISTING	(10) AMPERIAL BRANCHES (LARGE)		
87'	EXISTING	(10) DIRECTIONAL	(2) 12" T-ARMS	(12) 1-5/8"
84'	EXISTING	(10) AMPERIAL BRANCHES (LARGE)		
81'	PROPOSED	(3) 720003	(1) TRIP-BRACKET	(8) 7/8"
81'	PROPOSED	(8) 777020	(3) 12" T-ARMS	(8) 7/8"
81'	PROPOSED	(4) 1021101	(4) DIRECTIONAL	
81'	EXISTING	(4) AMPERIAL BRANCHES (LARGE)		
77'	EXISTING	(4) AMPERIAL BRANCHES (LARGE)		

NOTE: BOLD TEXT INDICATES PROPOSED MODIFICATIONS.

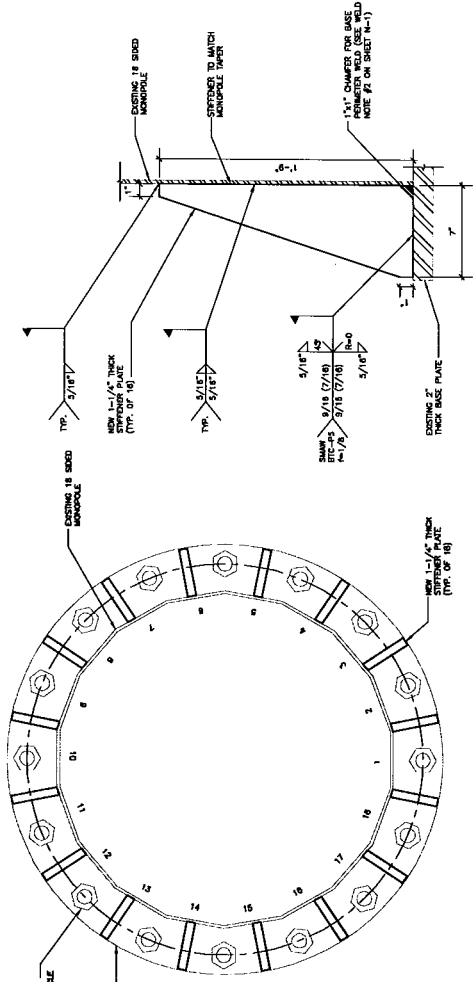
SECTION	LENGTH	THICKNESS	SAP	TOP DIAMETER	BOTTOM DIAMETER	TOP SURFACE AREA
1	48'-10"	5/16"	31.0200"	18.0000"	18.0000"	10.0000"
2	35'-11"	5/16"	4'-0"	18.8900"	31.0000"	11.0000"
3	47'-8"	5/16"	6.3375"	51.0000"	37.7131"	13.0000"



TOWER ELEVATION  
 1/8" = 1'-0"



COAX LAYOUT  
 N.T.S.



SECTION A-A  
 1-1/2\"/>

SECTION B-B  
 3'-11 1/2"

CROWN CASTLE  
 SOUTH HEBRON / MED ELLIS PROP.  
 09248  
 TOWER ELEVATIONS &  
 MODIFICATION DETAILS

DATE	BY	CHKD	APP'D

2008282.56

S-1

REV	DATE	DESCRIPTION