Crown Castle
3 Corporate Park Drive, Suite 101
Clifton Park, NY 12065

December 19, 2018

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

RE: **Notice of Exempt Modification for Sprint Crown Site BU: 841293**
Sprint Site ID: 65920
136 Bulls Bridge Road, Kent, Litchfield County, CT 06785
Latitude: 41° 40′ 53.85″/ **Longitude:** -73° 29′ 11.8″

Dear Ms. Bachman:

Verizon currently maintains (6) antennas at the 160-foot level of the existing 179.813-foot monopole at 136 Bulls Bridge Road, South Kent, Connecticut 06785. The tower is owned by Crown Castle. The property is owned by South Kent School. Verizon intends to replace (6) antennas, (6) RRHS, (2) hybrids, and (2) raycaps for (1) new raycap.

The facility was approved by the Connecticut Siting Council on February 24, 1994, Docket Number 162. This approval included the following conditions:

1. The self-supporting monopole tower shall be no taller than necessary to provide the proposed cellular communications service and in no event shall the tower structure exceed a total height of 197 feet above ground level with antennas and appurtenances.
2. Prior to the commencement of construction, the Certificate holder shall prepare a Development and Management (D&M) Plan for this site in compliance with sections 16-50j-75 through 16-50j-77 of the Regulations of State Agencies. The D&M Plan shall include detailed plans for the tower and tower foundation; the locations of all antennas to be attached to this tower to ensure maximum sharing of the tower; detailed plans for an access way from a public roadway, including all improvements and gates installed in the access way; utility line installation; equipment building plans including elevations; detailed plans for site clearing and tree trimming; detailed plans for erosion and sedimentation control; and plans for the installation of the security fence. The D&M Plan shall be submitted to the Council for approval prior to the commencement of tower construction.
3. The Certificate holder shall comply with any existing and future radio frequency (RF) standard promulgated by State or federal regulatory agencies. Upon the establishment of any new governmental RF standards, the facility granted herein shall be brought into compliance with such standards.

4. The Certificate holder shall provide the Council a recalculated report of electromagnetic radio frequency power density if and when the circumstances in operation cause a change in power density above the levels originally calculated and provided in the application.
5. The Certificate holder shall permit public or private entities to share space on the proposed tower for fair consideration, or shall provide any requesting entity with specific legal, technical, environmental, or economic reasons precluding such tower sharing. Should any agreement, including sharing of this tower, be reached prior to construction of the tower, detailed plans for the third party's equipment shall be included in the D&M Plan.
6. If the facility does not initially provide, or permanently ceases to provide, cellular or other services following completion of construction, this Decision and Order shall be void, and the tower and all associated equipment shall be dismantled and removed or reapplication for any continued or new use shall be made to the Council before any such use is made.
7. Unless otherwise approved by the Council, this Decision and Order shall be void if all construction authorized herein is not completed within three years of the effective date of this Decision and Order or within three years after all appeals to this Decision and Order has been resolved.

This modification complies with the aforementioned conditions.

Please accept this letter as notification pursuant to Regulations of Connecticut State Agencies § 16-50j-73, for construction that constitutes an exempt modification pursuant to R.C.S.A. § 16-50j-72(b)(2). In accordance with R.S.C.A. § 16-50j-73, a copy of this letter is being sent to the Honorable Bruce K. Adams, First Selectman of the Town of Kent, to John Johnson, the Chairman of the Planning and Zoning Commission, and to the land owner South Kent School. Crown Castle is the tower owner.

1. The proposed modifications will not result in an increase in the height of the existing tower.

2. The proposed modifications will not require the extension of the site boundary.

3. The proposed modification will not increase noise levels at the facility by six decibels or more, or to levels that exceed state and local criteria.

4. The operation of the replacement antennas will not increase radio frequency emissions at the facility to a level at or above the Federal Communication Commission safety standard.

5. The proposed modifications will not cause a change or alteration in the physical or environmental characteristics of the site.

6. The existing structure and its foundation can support the proposed loading.

For the foregoing reasons, Sprint respectfully submits that the proposed modifications to the above-reference telecommunications facility constitutes an exempt modification under R.C.S.A. § 16-50j-72(b)(2). Please send approval/rejection letter to Attn: Anne Marie Zsamba.

Sincerely,

Anne Marie Zsamba, Esq.
Real Estate Specialist
3 Corporate Park Drive, Suite 101, Clifton Park, NY 12065
(201) 236-9224
annemarie.zsamba@crowncastle.com

Attachments:

Tab 1: Exhibit-A: Compound plan and elevation depicting the planned changes
Tab 2: Exhibit-B: Structural Modification Report
Tab 3: Exhibit-C: General Power Density Table Report (RF Emissions Analysis Report)

cc: Mr. Bruce K. Adams, First Selectman
Kent Town Hall
41 Kent Green Blvd.
Kent, CT 06757

Mr. John Johnson, Chairman
Planning & Zoning Commission
Kent Town Hall
41 Kent Green Blvd.
Kent, CT 06757

South Kent School
40 Bulls Bridge Road
Kent, CT 06785

After printing this label:
1. Use the 'Print' button on this page to print your label to your laser or inkjet printer.
2. Fold the printed page along the horizontal line.
3. Place label in shipping pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.

Warning: Use only the printed original label for shipping. Using a photocopy of this label for shipping purposes is fraudulent and could result in additional billing charges, along with the cancellation of your FedEx account number.
Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide, available on fedex.com.FedEx will not be responsible for any claim in excess of $100 per package, whether the result of loss, damage, delay, non-delivery,misdelivery,or misinformation, unless you declare a higher value, pay an additional charge, document your actual loss and file a timely claim.Limitations found in the current FedEx Service Guide apply. Your right to recover from FedEx for any loss, including intrinsic value of the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage whether direct, incidental,consequential, or special is limited to the greater of $100 or the authorized declared value. Recovery cannot exceed actual documented loss.Maximum for items of extraordinary value is $1,000, e.g. jewelry, precious metals, negotiable instruments and other items listed in our ServiceGuide. Written claims must be filed within strict time limits, see current FedEx Service Guide.

After printing this label:
1. Use the 'Print' button on this page to print your label to your laser or inkjet printer.
2. Fold the printed page along the horizontal line.
3. Place label in shipping pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.

Warning: Use only the printed original label for shipping. Using a photocopy of this label for shipping purposes is fraudulent and could result in additional billing charges, along with the cancellation of your FedEx account number.
Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide, available on fedex.com.FedEx will not be responsible for any claim in excess of $100 per package, whether the result of loss, damage, delay, non-delivery,misdelivery,or misinformation, unless you declare a higher value, pay an additional charge, document your actual loss and file a timely claim.Limitations found in the current FedEx Service Guide apply. Your right to recover from FedEx for any loss, including intrinsic value of the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage whether direct, incidental,consequential, or special is limited to the greater of $100 or the authorized declared value. Recovery cannot exceed actual documented loss.Maximum for items of extraordinary value is $1,000, e.g. jewelry, precious metals, negotiable instruments and other items listed in our ServiceGuide. Written claims must be filed within strict time limits, see current FedEx Service Guide.

After printing this label:
1. Use the 'Print' button on this page to print your label to your laser or inkjet printer.
2. Fold the printed page along the horizontal line.
3. Place label in shipping pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.

Warning: Use only the printed original label for shipping. Using a photocopy of this label for shipping purposes is fraudulent and could result in additional billing charges, along with the cancellation of your FedEx account number.
Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide, available on fedex.com.FedEx will not be responsible for any claim in excess of $100 per package, whether the result of loss, damage, delay, non-delivery,misdelivery,or misinformation, unless you declare a higher value, pay an additional charge, document your actual loss and file a timely claim.Limitations found in the current FedEx Service Guide apply. Your right to recover from FedEx for any loss, including intrinsic value of the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage whether direct, incidental,consequential, or special is limited to the greater of $100 or the authorized declared value. Recovery cannot exceed actual documented loss.Maximum for items of extraordinary value is $1,000, e.g. jewelry, precious metals, negotiable instruments and other items listed in our ServiceGuide. Written claims must be filed within strict time limits, see current FedEx Service Guide.

After printing this label:
1. Use the 'Print' button on this page to print your label to your laser or inkjet printer.
2. Fold the printed page along the horizontal line.
3. Place label in shipping pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.

Warning: Use only the printed original label for shipping. Using a photocopy of this label for shipping purposes is fraudulent and could result in additional billing charges, along with the cancellation of your FedEx account number.
Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide, available on fedex.com.FedEx will not be responsible for any claim in excess of $100 per package, whether the result of loss, damage, delay, non-delivery,misdelivery,or misinformation, unless you declare a higher value, pay an additional charge, document your actual loss and file a timely claim.Limitations found in the current FedEx Service Guide apply. Your right to recover from FedEx for any loss, including intrinsic value of the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage whether direct, incidental,consequential, or special is limited to the greater of $100 or the authorized declared value. Recovery cannot exceed actual documented loss.Maximum for items of extraordinary value is $1,000, e.g. jewelry, precious metals, negotiable instruments and other items listed in our ServiceGuide. Written claims must be filed within strict time limits, see current FedEx Service Guide.

DOCKET NO. 162 - An application of Springwich Cellular Limited Partnership for a Certificate of Environmental Compatibility and Public Need for the construction, maintenance, and operation of a cellular telecommunications facility located on the grounds of South Kent School off Bulls Bridge Road in Kent, Connecticut.	:	Connecticut Siting Council
	:	February 24, 1994

ORIGINAL

DECISION AND ORDER

Pursuant to the foregoing Findings of Fact and Opinion, the Connecticut Siting Council (Council) finds that the effects associated with the construction, operation, and maintenance of a cellular telecommunications tower at the proposed site in Kent, Connecticut, including effects on the natural environment; ecological integrity and balance; public health and safety; scenic, historic, and recreational values; forests and parks; air and water purity; and fish and wildlife are not disproportionate either alone or cumulatively with other effects when compared to need, are not in conflict with the policies of the State concerning such effects, and are not sufficient reason to deny the application and therefore directs that a Certificate of Environmental Compatibility and Public Need as provided by section 16-50k of the Connecticut General Statutes (CGS), be issued to Springwich Cellular Limited Partnership (Springwich), for the construction, operation, and maintenance of a cellular telecommunications tower at the proposed site on property owned by the South Kent School, off Bulls Bridge Road, Kent, Connecticut.

The facility shall be constructed, operated, and maintained substantially as specified in the Council's record in this matter, and subject to the following conditions:

1. The self-supporting monopole tower shall be no taller than necessary to provide the proposed cellular communications service and in no event shall the tower structure exceed a total height of 197 feet above ground level with antennas and appurtenances.

2. Prior to the commencement of construction, the Certificate holder shall prepare a Development and Management (D&M) Plan for this site in compliance with sections 16-50j-75 through 16-50j-77 of the Regulations of State Agencies. The D&M Plan shall include detailed plans for the tower and tower foundation; the locations of all antennas to be attached to this tower to ensure maximum sharing of the tower; detailed plans for an accessway from a public roadway, including all improvements and gates installed in the accessway; utility line installation; equipment building plans including elevations; detailed plans for site clearing and tree trimming; detailed plans for erosion and sedimentation control; and plans for the installation of the security fence. The D&M Plan shall be submitted to the Council for approval prior to the commencement of tower construction.

3. The Certificate holder shall comply with any existing and future radio frequency (RF) standard promulgated by State or federal regulatory agencies. Upon the establishment of any new governmental RF standards, the facility granted herein shall be brought into compliance with such standards.

4. The Certificate holder shall provide the Council a recalculated report of electromagnetic radio frequency power density if and when circumstances in operation cause a change in power density above the levels originally calculated and provided in the application.

5. The Certificate holder shall permit public or private entities to share space on the proposed tower for fair consideration, or shall provide any requesting entity with specific legal, technical, environmental, or economic reasons precluding such tower sharing. Should any agreement, including sharing of this tower, be reached prior to construction of the tower, detailed plans for the third party's equipment shall be included in the D&M Plan.

6. If the facility does not initially provide, or permanently ceases to provide, cellular or other services following completion of construction, this Decision and Order shall be void, and the tower and all associated equipment shall be dismantled and removed or re-application for any continued or new use shall be made to the Council before any such use is made.

7. Unless otherwise approved by the Council, this Decision and Order shall be void if all construction authorized herein is not completed within three years of the effective date of this Decision and Order or within three years after all appeals to this Decision and Order have been resolved.

Pursuant to CGS section 16-50p, we hereby direct that a copy of the Findings of Fact, Opinion, and Decision and Order be served on each person listed below, and notice of issuance shall be published in the Litchfield County Times, the Kent Good Times Dispatch, and the Waterbury Republican-American.

By this Decision and Order, the Council disposes of the legal rights, duties, and privileges of each party named or admitted to the proceeding in accordance with section 16-50j-17 of the Regulations of State Agencies.

The parties and intervenors to this proceeding are:

APPLICANT	ITS REPRESENTATIVE
Springwich Cellular Limited Partnership	Peter J. Tyrrell, Esq. Senior Attorney Springwich Cellular Limited Partnership 227 Church Street-Room 1021 New Haven, CT 06506 (203) 771-7381

PARTY	ITS REPRESENTATIVE
Litchfield County Cellular Inc.	Andrew N. Davis, Esq. John J. Russotto, Esq. Brown, Rudnick, Freed & Gesmer, P.C. 90 State House Square Hartford, CT 06103 (203) 525-8008
INTERVENOR	**ITS REPRESENTATIVE**
Bell Atlantic Metro Mobile	Steven R. Humphrey, Esq. Brian C.S. Freeman, Esq. Robinson & Cole One Commercial Plaza Hartford, CT 06103-3597 (203) 275-8200

7652E

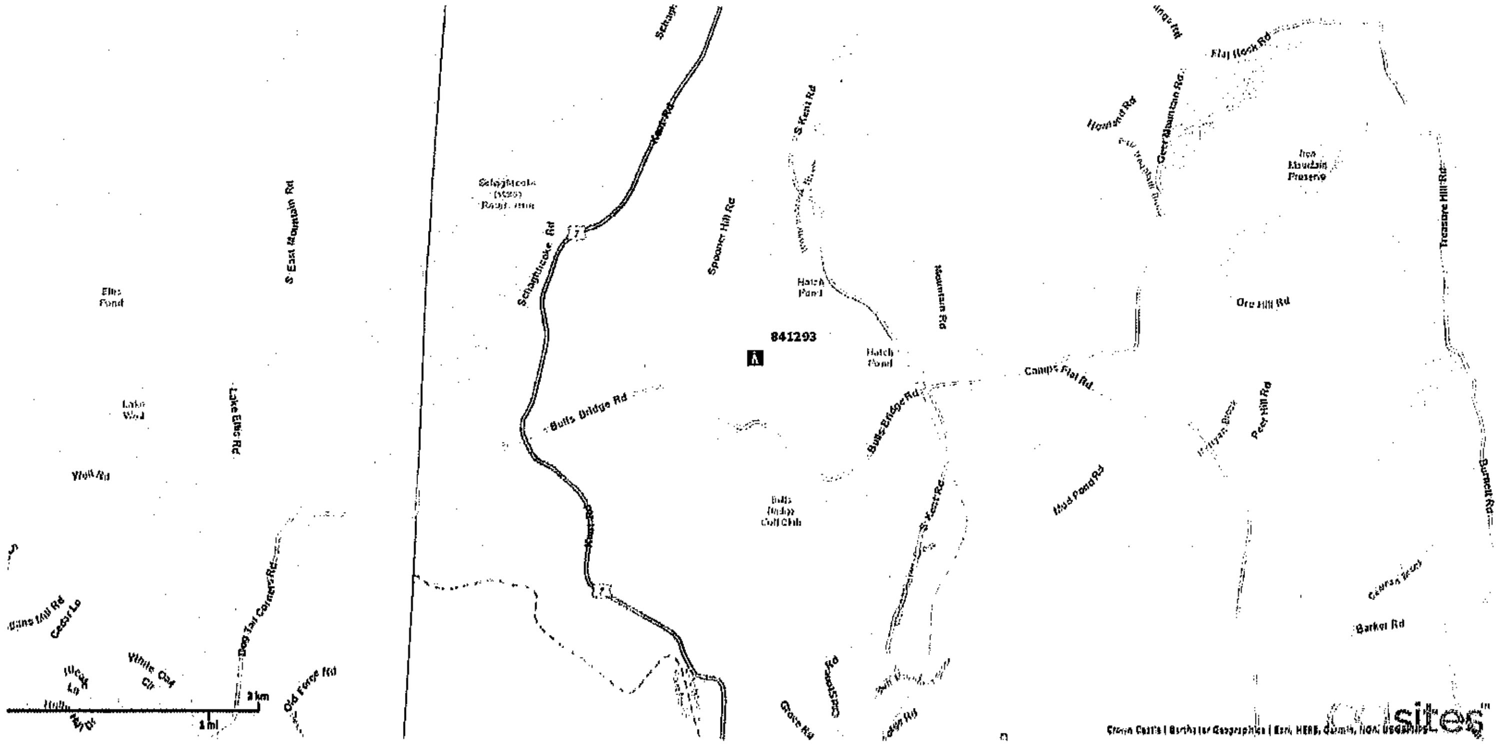
CERTIFICATION

The undersigned members of the Connecticut Siting Council (Council) hereby certify that they have heard this case, or read the record thereof, in Docket No. 162, and voted as follows to approve the facility located on the grounds of South Kent School off Bulls Bridge Road in Kent, Connecticut:

Council Members	Vote Cast
Mortimer A. Gelston Chairman	Yes
Commissioner Reginald J. Smith Designee: Richard G. Patterson	Abstain
Commissioner Timothy R.E. Keeney Designee: Brian Emerick	Absent
Harry E. Covey	Yes
Daniel P. Lynch, Jr.	Yes
Gloria Dibble Pond	Absent
William H. Smith	Absent
Colin C. Tait	Yes
Dana J. Wright	Yes

Dated at New Britain, Connecticut, February 24, 1994.

7666E-2
TEF:mmb


S East Mountain Rd
Ellis Pond
Lake Ellis Rd
Wolf Rd
Cedar Ln
White Oak Ct
Dog Tail Corners Rd
Old Forge Rd
3 km
1 mi
Schaghticoke Rd
Kent Rd
Spooner Hill Rd
S Kent Rd
Hatch Pond
841293
Bulls Bridge Rd
Mountain Rd
Camps Flat Rd
Flat Rock Rd
Geer Mountain Rd
Iron Mountain Preserve
Treasure Hill Rd
Ore Hill Rd
Peet Hill Rd
Mud Pond Rd
Burnett Rd
Barker Rd
Grove Rd
sites

40 BULLS BRIDGE RD

Location 40 BULLS BRIDGE RD

Mblu 6/ 39/ 9/ /

Acct# 00019000

Owner SOUTH KENT SCHOOL CORP

Assessment $10,012,200

Appraisal $14,301,800

PID 580

Building Count 35

Current Value

Appraisal			
Valuation Year	**Improvements**	**Land**	**Total**
2015	$12,090,200	$2,211,600	$14,301,800
Assessment			
Valuation Year	**Improvements**	**Land**	**Total**
2015	$8,464,000	$1,548,200	$10,012,200

Owner of Record

Owner SOUTH KENT SCHOOL CORP
Co-Owner

Sale Price $0
Certificate
Book & Page
Sale Date

Ownership History

Ownership History				
Owner	**Sale Price**	**Certificate**	**Book & Page**	**Sale Date**
SOUTH KENT SCHOOL CORP	$0			

Building Information

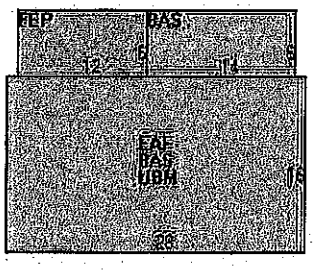
Building 1 : Section 1

Year Built: 1941
Living Area: 689
Replacement Cost: $76,934
Replacement Cost Less Depreciation: $57,700

Building Attributes	
Field	**Description**
Style	Cape Cod
Model	Residential

Grade:	03
Stories:	1 Story
Occupancy	1
Exterior Wall 1	Clapboard
Exterior Wall 2	
Roof Structure:	Gable/Hip
Roof Cover	Wood Shingle
Interior Wall 1	Drywall
Interior Wall 2	
Interior Flr 1	Hardwood
Interior Flr 2	
Heat Fuel	Gas
Heat Type:	Steam
AC Type:	None
Total Bedrooms:	00
Total Bthrms:	0
Total Half Baths:	0
Total Xtra Fixtrs:	
Total Rooms:	1 Room
Bath Style:	
Kitchen Style:	

Building Layout



Building Sub-Areas (sq ft)			Legend
Code	Description	Gross Area	Living Area
BAS	First Floor	532	532
EAF	Attic, Expansion, Finished	448	157
FEP	Porch, Enclosed, Finished	72	0
UBM	Basement, Unfinished	448	0
		1,500	689

Building 1 : Section 1

Year Built: 1941
Living Area: 0
Replacement Cost: $76,934
Replacement Cost Less Depreciation: $57,700

Building Attributes	
Field	Description
Style	Outbuildings
Model	
Grade:	
Stories:	
Occupancy	
Exterior Wall 1	
Exterior Wall 2	
Roof Structure:	
Roof Cover	
Interior Wall 1	
Interior Wall 2	
Interior Flr 1	

Building Layout

Building Layout

Building Sub-Areas (sq ft)	Legend
No Data for Building Sub-Areas	

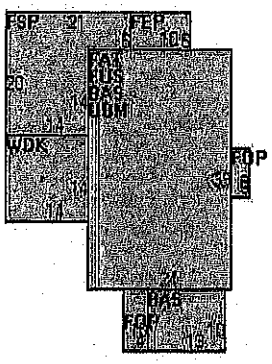
Interior Flr 2	
Heat Fuel	
Heat Type:	
AC Type:	
Total Bedrooms:	
Total Bthrms:	
Total Half Baths:	
Total Xtra Fixtrs:	
Total Rooms:	
Bath Style:	
Kitchen Style:	

Building 2 : Section 1

Year Built: 1945
Living Area: 2,189
Replacement Cost: $202,139
Replacement Cost Less Depreciation: $119,300

Building Attributes : Bldg 2 of 35	
Field	**Description**
Style	Old Style
Model	Residential
Grade:	03
Stories:	2 Stories
Occupancy	1
Exterior Wall 1	Wood Shingle
Exterior Wall 2	
Roof Structure:	Gable/Hip
Roof Cover	Asph/F Gls/Cmp
Interior Wall 1	Plastered
Interior Wall 2	
Interior Flr 1	Hardwood
Interior Flr 2	
Heat Fuel	Oil
Heat Type:	Forced Air-Duc
AC Type:	Central
Total Bedrooms:	6 Bedrooms
Total Bthrms:	4
Total Half Baths:	0
Total Xtra Fixtrs:	
Total Rooms:	10 Rooms
Bath Style:	Average

Building Layout



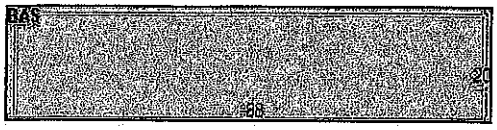
Building Sub-Areas (sq ft)			Legend
Code	**Description**	**Gross Area**	**Living Area**
BAS	First Floor	1,066	1,066
FUS	Upper Story, Finished	936	936
FAT	Attic, Finished	936	187
FEP	Porch, Enclosed, Finished	60	0
FOP	Porch, Open, Finished	64	0
FSP	Porch, Screen, Finished	322	0
UBM	Basement, Unfinished	936	0
WDK	Deck, Wood	196	0
		4,516	2,189

Kitchen Style:	Average

Building 3 : Section 1

Year Built: 1950
Living Area: 1,760
Replacement Cost: $38,069
Replacement Cost Less Depreciation: $25,500

Building Layout



Building Attributes : Bldg 3 of 35	
Field	**Description**
STYLE	Quonset Bldg
MODEL	Commercial
Grade	Average
Stories:	1
Occupancy	
Exterior Wall 1	Pre-finsh Metl
Exterior Wall 2	
Roof Structure	Gable/Hip
Roof Cover	Metal/Tin
Interior Wall 1	Wall Brd/Wood
Interior Wall 2	
Interior Floor 1	Concr-Finished
Interior Floor 2	
Heating Fuel	Coal or Wood
Heating Type	None
AC Type	None
Bldg Use	Com/Res MDL94
Total Rooms	
Total Bedrms	00
Total Baths	0
1st Floor Use:	1-1C
Heat/AC	NONE
Frame Type	WOOD FRAME
Baths/Plumbing	NONE
Ceiling/Wall	NONE
Rooms/Prtns	LIGHT
Wall Height	10
% Comn Wall	

Building Sub-Areas (sq ft)			Legend
Code	**Description**	**Gross Area**	**Living Area**
BAS	First Floor	1,760	1,760
		1,760	1,760

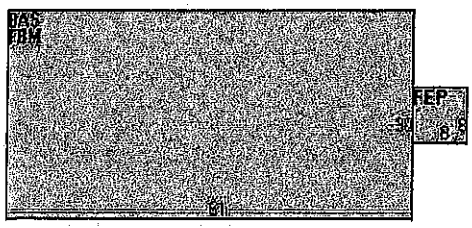
Building 5 : Section 1

Year Built: 1950
Living Area: 3,660

Replacement Cost: $337,273
Replacement Cost Less Depreciation: $263,100

Building Attributes : Bldg 5 of 35	
Field	**Description**
STYLE	Dormitory
MODEL	Commercial
Grade	Average
Stories:	1
Occupancy	
Exterior Wall 1	Brick/Masonry
Exterior Wall 2	
Roof Structure	Gable/Hip
Roof Cover	Metal/Tin
Interior Wall 1	Drywall/Sheet
Interior Wall 2	
Interior Floor 1	Concr-Finished
Interior Floor 2	
Heating Fuel	Oil
Heating Type	Hot Water
AC Type	None
Bldg Use	Com/Res MDL94
Total Rooms	
Total Bedrms	09
Total Baths	2
1st Floor Use:	1-1C
Heat/AC	HEAT/AC SPLIT
Frame Type	WOOD FRAME
Baths/Plumbing	AVERAGE
Ceiling/Wall	CEIL & WALLS
Rooms/Prtns	AVERAGE
Wall Height	9
% Comn Wall	

Building Layout



Building Sub-Areas (sq ft)			Legend
Code	**Description**	**Gross Area**	**Living Area**
BAS	First Floor	1,830	1,830
FBM	Basement, Finished	1,830	1,830
FEP	Porch, Enclosed, Finished	64	0
		3,724	3,660

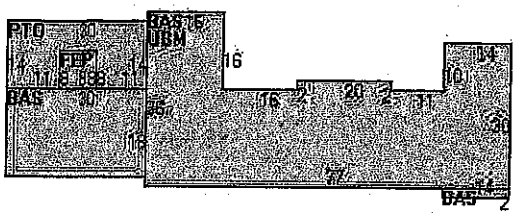
Building 6 : Section 1

Year Built: 1935
Living Area: 2,544
Replacement Cost: $338,025
Replacement Cost Less Depreciation: $253,500

Building Attributes : Bldg 6 of 35	
Field	**Description**
STYLE	Dormitory

MODEL	Commercial
Grade	Average
Stories:	1
Occupancy	
Exterior Wall 1	Clapboard
Exterior Wall 2	
Roof Structure	Gable/Hip
Roof Cover	Asph/F Gls/Cmp
Interior Wall 1	Plastered
Interior Wall 2	
Interior Floor 1	Hardwood
Interior Floor 2	
Heating Fuel	Oil
Heating Type	Hot Water
AC Type	None
Bldg Use	Com/Res MDL94
Total Rooms	
Total Bedrms	04
Total Baths	2
1st Floor Use:	1-1C
Heat/AC	HEAT/AC SPLIT
Frame Type	WOOD FRAME
Baths/Plumbing	AVERAGE
Ceiling/Wall	CEIL & WALLS
Rooms/Prtns	AVERAGE
Wall Height	9
% Comn Wall	

Building Layout



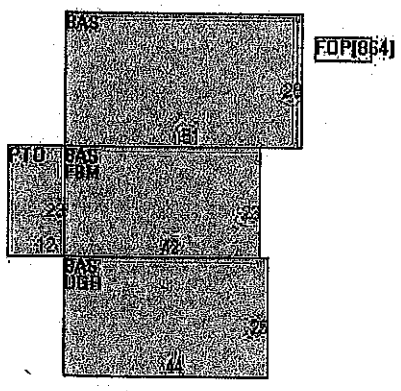
Building Sub-Areas (sq ft)			Legend
Code	Description	Gross Area	Living Area
BAS	First Floor	2,544	2,544
FEP	Porch, Enclosed, Finished	64	0
PTO	Patio	356	0
UBM	Basement, Unfinished	1,976	0
		4,940	2,544

Building 7 : Section 1

Year Built: 1966
Living Area: 4,460
Replacement Cost: $212,729
Replacement Cost Less Depreciation: $174,400

Building Attributes : Bldg 7 of 35	
Field	Description
STYLE	Auditorium
MODEL	Commercial
Grade	Average
Stories:	1
Occupancy	
Exterior Wall 1	Clapboard

Building Layout



Exterior Wall 2	
Roof Structure	Gable/Hip
Roof Cover	Asph/F Gls/Cmp
Interior Wall 1	Drywall/Sheet
Interior Wall 2	
Interior Floor 1	Carpet
Interior Floor 2	Concr-Finished
Heating Fuel	Oil
Heating Type	Hot Water
AC Type	None
Bldg Use	Com/Res MDL94
Total Rooms	
Total Bedrms	00
Total Baths	4
1st Floor Use:	1-1C
Heat/AC	HEAT/AC SPLIT
Frame Type	WOOD FRAME
Baths/Plumbing	AVERAGE
Ceiling/Wall	CEIL & WALLS
Rooms/Prtns	AVERAGE
Wall Height	9
% Comn Wall	

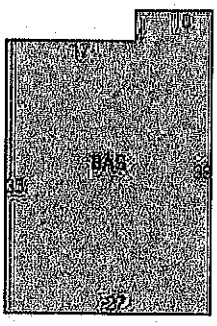
Building Sub-Areas (sq ft)			Legend
Code	Description	Gross Area	Living Area
BAS	First Floor	3,494	3,494
FBM	Basement, Finished	966	966
FOP	Porch, Open, Finished	864	0
PTO	Patio	276	0
UGR	Bsmt Garage	1,100	0
		6,700	4,460

Building 8 : Section 1

Year Built: 1966
Living Area: 985
Replacement Cost: $185,791
Replacement Cost Less Depreciation: $152,300

Building Attributes : Bldg 8 of 35	
Field	Description
STYLE	Dormitory
MODEL	Commercial
Grade	Average
Stories:	1
Occupancy	
Exterior Wall 1	Brick/Masonry
Exterior Wall 2	
Roof Structure	Gable/Hip
Roof Cover	Asph/F Gls/Cmp
Interior Wall 1	Drywall/Sheet
Interior Wall 2	K PINE/A WD

Building Layout



Building Sub-Areas (sq ft)			Legend
Code	Description	Gross Area	Living Area
BAS	First Floor	985	985
		985	985

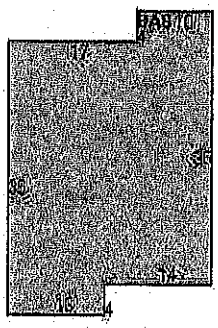
Interior Floor 1	Carpet
Interior Floor 2	Concr-Finished
Heating Fuel	Oil
Heating Type	Hot Water
AC Type	None
Bldg Use	Com/Res MDL94
Total Rooms	
Total Bedrms	06
Total Baths	1
1st Floor Use:	1-1C
Heat/AC	HEAT/AC SPLIT
Frame Type	WOOD FRAME
Baths/Plumbing	AVERAGE
Ceiling/Wall	CEIL & WALLS
Rooms/Prtns	AVERAGE
Wall Height	9
% Comn Wall	

Building 9 : Section 1

Year Built: 1966
Living Area: 929
Replacement Cost: $178,117
Replacement Cost Less Depreciation: $146,100

Building Attributes : Bldg 9 of 35	
Field	**Description**
STYLE	Dormitory
MODEL	Commercial
Grade	Average
Stories:	1
Occupancy	
Exterior Wall 1	Brick/Masonry
Exterior Wall 2	
Roof Structure	Gable/Hip
Roof Cover	Asph/F Gls/Cmp
Interior Wall 1	Drywall/Sheet
Interior Wall 2	K PINE/A WD
Interior Floor 1	Carpet
Interior Floor 2	Concr-Finished
Heating Fuel	Oil
Heating Type	Hot Water
AC Type	None

Building Layout



Building Sub-Areas (sq ft)			Legend
Code	**Description**	**Gross Area**	**Living Area**
BAS	First Floor	929	929
		929	929

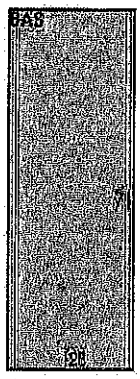
Bldg Use	Com/Res MDL94
Total Rooms	
Total Bedrms	06
Total Baths	1
1st Floor Use:	1-1C
Heat/AC	HEAT/AC SPLIT
Frame Type	WOOD FRAME
Baths/Plumbing	AVERAGE
Ceiling/Wall	CEIL & WALLS
Rooms/Prtns	AVERAGE
Wall Height	9
% Comn Wall	

Building 10 : Section 1

Year Built: 1988
Living Area: 1,846
Replacement Cost: $79,747
Replacement Cost Less Depreciation: $68,600

Building Attributes : Bldg 10 of 35	
Field	**Description**
STYLE	Commercial
MODEL	Commercial
Grade	Average
Stories:	1
Occupancy	
Exterior Wall 1	Board & Batten
Exterior Wall 2	
Roof Structure	Gable/Hip
Roof Cover	Metal/Tin
Interior Wall 1	Minim/Masonry
Interior Wall 2	
Interior Floor 1	Concr-Finished
Interior Floor 2	
Heating Fuel	Coal or Wood
Heating Type	None
AC Type	None
Bldg Use	Com/Res MDL94
Total Rooms	
Total Bedrms	00
Total Baths	0
1st Floor Use:	1-1C

Building Layout



Building Sub-Areas (sq ft)			Legend
Code	**Description**	**Gross Area**	**Living Area**
BAS	First Floor	1,846	1,846
		1,846	1,846

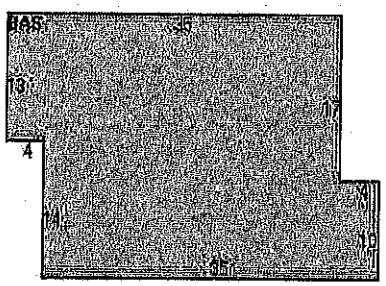
Heat/AC	NONE
Frame Type	WOOD FRAME
Baths/Plumbing	NONE
Ceiling/Wall	NONE
Rooms/Prtns	LIGHT
Wall Height	10
% Comn Wall	

Building 11 : Section 1

Year Built: 1966
Living Area: 929
Replacement Cost: $175,358
Replacement Cost Less Depreciation: $143,800

Building Attributes : Bldg 11 of 35	
Field	**Description**
STYLE	Dormitory
MODEL	Commercial
Grade	Average
Stories:	1
Occupancy	
Exterior Wall 1	Brick/Masonry
Exterior Wall 2	
Roof Structure	Gable/Hip
Roof Cover	Asph/F Gls/Cmp
Interior Wall 1	Drywall/Sheet
Interior Wall 2	K PINE/A WD
Interior Floor 1	Carpet
Interior Floor 2	Concr-Finished
Heating Fuel	Oil
Heating Type	Hot Water
AC Type	None
Bldg Use	Com/Res MDL94
Total Rooms	
Total Bedrms	06
Total Baths	1
1st Floor Use:	1-1C
Heat/AC	NONE
Frame Type	MASONRY
Baths/Plumbing	AVERAGE
Ceiling/Wall	CEIL & WALLS
Rooms/Prtns	AVERAGE

Building Layout



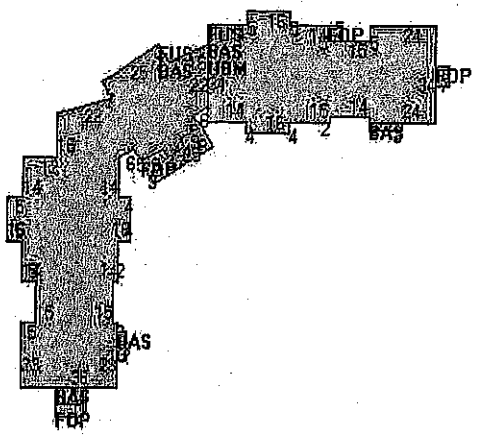
Building Sub-Areas (sq ft)			Legend
Code	**Description**	**Gross Area**	**Living Area**
BAS	First Floor	929	929
		929	929

Wall Height	8
% Comn Wall	

Building 12 : Section 1

Year Built: 2006
Living Area: 14,882
Replacement Cost: $1,196,673
Replacement Cost Less Depreciation: $1,112,900

Building Layout



Building Attributes : Bldg 12 of 35	
Field	**Description**
STYLE	Dormitory
MODEL	Commercial
Grade	Average
Stories:	2
Occupancy	
Exterior Wall 1	Clapboard
Exterior Wall 2	
Roof Structure	Gable/Hip
Roof Cover	Asph/F Gls/Cmp
Interior Wall 1	Drywall/Sheet
Interior Wall 2	K PINE/A WD
Interior Floor 1	Carpet
Interior Floor 2	Concr-Finished
Heating Fuel	Gas
Heating Type	Hot Water
AC Type	None
Bldg Use	Com/Res MDL94
Total Rooms	
Total Bedrms	09
Total Baths	3
1st Floor Use:	1-1C
Heat/AC	HEAT/AC SPLIT
Frame Type	WOOD FRAME
Baths/Plumbing	AVERAGE
Ceiling/Wall	CEIL & WALLS
Rooms/Prtns	AVERAGE
Wall Height	9
% Comn Wall	

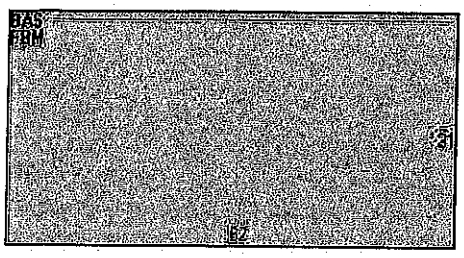
Building Sub-Areas (sq ft)			Legend
Code	**Description**	**Gross Area**	**Living Area**
BAS	First Floor	7,504	7,504
FUS	Upper Story, Finished	7,378	7,378
FOP	Porch, Open, Finished	292	0
UBM	Basement, Unfinished	2,863	0
		18,037	14,882

Building 13 : Section 1

Year Built: 1959

Building Layout

Living Area: 3,844
Replacement Cost: $330,593
Replacement Cost Less Depreciation: $264,500



Building Attributes : Bldg 13 of 35	
Field	**Description**
STYLE	Dormitory
MODEL	Commercial
Grade	Average
Stories:	1
Occupancy	
Exterior Wall 1	Concr/Cinder
Exterior Wall 2	
Roof Structure	Gable/Hip
Roof Cover	Asph/F Gls/Cmp
Interior Wall 1	Drywall/Sheet
Interior Wall 2	
Interior Floor 1	Concr-Finished
Interior Floor 2	Carpet
Heating Fuel	Oil
Heating Type	Hot Water
AC Type	None
Bldg Use	Com/Res MDL94
Total Rooms	
Total Bedrms	09
Total Baths	3
1st Floor Use:	1-1C
Heat/AC	HEAT/AC SPLIT
Frame Type	WOOD FRAME
Baths/Plumbing	AVERAGE
Ceiling/Wall	CEIL & WALLS
Rooms/Prtns	AVERAGE
Wall Height	9
% Comn Wall	

Building Sub-Areas (sq ft)			Legend
Code	**Description**	**Gross Area**	**Living Area**
BAS	First Floor	1,922	1,922
FBM	Basement, Finished	1,922	1,922
		3,844	3,844

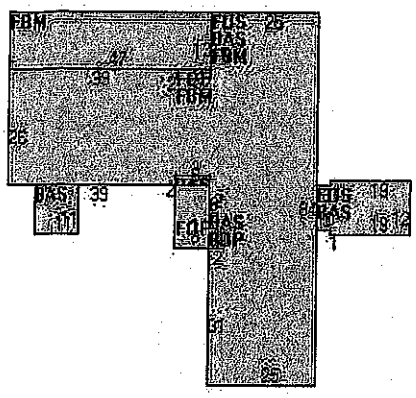
Building 14 : Section 1

Year Built: 1930
Living Area: 11,118
Replacement Cost: $757,131
Replacement Cost Less Depreciation: $567,800

Building Attributes : Bldg 14 of 35	
Field	**Description**

STYLE	Dormitory
MODEL	Commercial
Grade	Average
Stories:	2
Occupancy	
Exterior Wall 1	Clapboard
Exterior Wall 2	
Roof Structure	Gable/Hip
Roof Cover	Asph/F Gls/Cmp
Interior Wall 1	Drywall/Sheet
Interior Wall 2	
Interior Floor 1	Carpet
Interior Floor 2	Concr-Finished
Heating Fuel	Oil
Heating Type	Hot Water
AC Type	None
Bldg Use	Com/Res MDL94
Total Rooms	
Total Bedrms	09
Total Baths	6
1st Floor Use:	1-1C
Heat/AC	HEAT/AC SPLIT
Frame Type	WOOD FRAME
Baths/Plumbing	AVERAGE
Ceiling/Wall	CEIL & WALLS
Rooms/Prtns	AVERAGE
Wall Height	10
% Comn Wall	

Building Layout



Building Sub-Areas (sq ft)			Legend
Code	Description	Gross Area	Living Area
FBM	Basement, Finished	3,901	3,901
BAS	First Floor	3,685	3,685
FUS	Upper Story, Finished	3,532	3,532
FOP	Porch, Open, Finished	160	0
		11,278	11,118

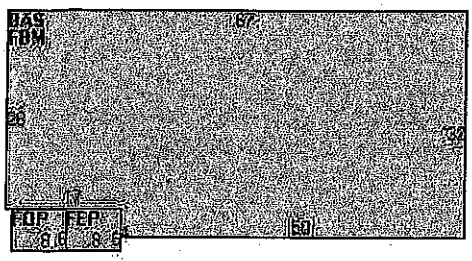
Building 15 : Section 1

Year Built: 1964
Living Area: 4,152
Replacement Cost: $408,672
Replacement Cost Less Depreciation: $326,900

Building Attributes : Bldg 15 of 35	
Field	Description
STYLE	Library
MODEL	Commercial
Grade	Average
Stories:	1
Occupancy	

Exterior Wall 1	Brick/Masonry
Exterior Wall 2	
Roof Structure	Gable/Hip
Roof Cover	Asph/F Gls/Cmp
Interior Wall 1	Drywall/Sheet
Interior Wall 2	
Interior Floor 1	Concr-Finished
Interior Floor 2	
Heating Fuel	Oil
Heating Type	Forced Air-Duc
AC Type	None
Bldg Use	Com/Res MDL94
Total Rooms	
Total Bedrms	00
Total Baths	2
1st Floor Use:	1-1C
Heat/AC	HEAT/AC SPLIT
Frame Type	WOOD FRAME
Baths/Plumbing	AVERAGE
Ceiling/Wall	CEIL & WALLS
Rooms/Prtns	AVERAGE
Wall Height	10
% Comn Wall	

Building Layout



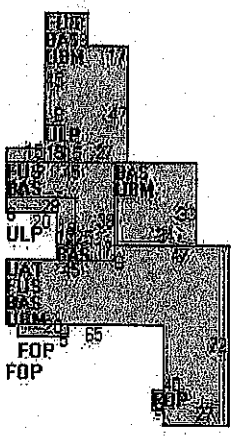
Building Sub-Areas (sq ft)			Legend
Code	Description	Gross Area	Living Area
BAS	First Floor	2,076	2,076
FBM	Basement, Finished	2,076	2,076
FEP	Porch, Enclosed, Finished	48	0
FOP	Porch, Open, Finished	48	0
		4,248	4,152

Building 16 : Section 1

Year Built: 1920
Living Area: 14,306
Replacement Cost: $1,701,529
Replacement Cost Less Depreciation: $1,276,100

Building Attributes : Bldg 16 of 35	
Field	Description
STYLE	School/College
MODEL	Commercial
Grade	Average
Stories:	2
Occupancy	
Exterior Wall 1	Clapboard
Exterior Wall 2	
Roof Structure	Gable/Hip
Roof Cover	Asph/F Gls/Cmp
Interior Wall 1	Plastered

Building Layout



Building Sub-Areas (sq ft)			Legend
Code	Description	Gross Area	Living Area
BAS	First Floor	7,738	7,738

Interior Wall 2	
Interior Floor 1	Hardwood
Interior Floor 2	
Heating Fuel	Oil
Heating Type	Steam
AC Type	None
Bldg Use	Com/Res MDL94
Total Rooms	
Total Bedrms	00
Total Baths	7
1st Floor Use:	1-1C
Heat/AC	HEAT/AC SPLIT
Frame Type	WOOD FRAME
Baths/Plumbing	AVERAGE
Ceiling/Wall	CEIL & WALLS
Rooms/Prtns	AVERAGE
Wall Height	9
% Comn Wall	

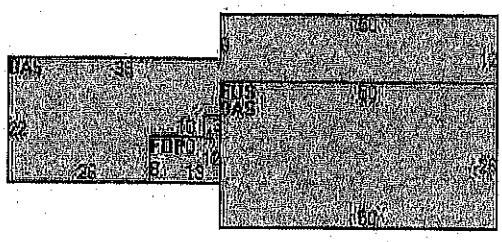
FUS	Upper Story, Finished	6,568	6,568
FOP	Porch, Open, Finished	404	0
UAT	Attic, Unfinished	3,754	0
UBM	Basement, Unfinished	7,690	0
ULP	Loading Platform, Unfinished	210	0
		26,364	14,306

Building 17 : Section 1

Year Built: 1968
Living Area: 3,942
Replacement Cost: $414,461
Replacement Cost Less Depreciation: $339,900

Building Attributes : Bldg 17 of 35	
Field	**Description**
STYLE	Dormitory
MODEL	Commercial
Grade	Average
Stories:	2
Occupancy	
Exterior Wall 1	Brick/Masonry
Exterior Wall 2	
Roof Structure	Gable/Hip
Roof Cover	Wood Shingle
Interior Wall 1	Drywall/Sheet
Interior Wall 2	
Interior Floor 1	Concr-Finished
Interior Floor 2	
Heating Fuel	Electric
Heating Type	Hot Water

Building Layout



Building Sub-Areas (sq ft)			Legend
Code	**Description**	**Gross Area**	**Living Area**
BAS	First Floor	2,642	2,642
FUS	Upper Story, Finished	1,300	1,300
FOP	Porch, Open, Finished	116	0
		4,058	3,942

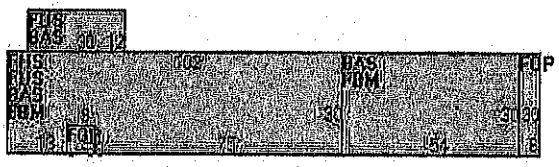
AC Type	None
Bldg Use	Com/Res MDL94
Total Rooms	
Total Bedrms	09
Total Baths	4
1st Floor Use:	1-1C
Heat/AC	HEAT/AC SPLIT
Frame Type	WOOD FRAME
Baths/Plumbing	AVERAGE
Ceiling/Wall	CEIL & WALLS
Rooms/Prtns	AVERAGE
Wall Height	9
% Comn Wall	

Building 18 : Section 1

Year Built: 1945
Living Area: 14,418
Replacement Cost: $1,376,125
Replacement Cost Less Depreciation: $1,032,100

Building Attributes : Bldg 18 of 35	
Field	**Description**
STYLE	School/College
MODEL	Commercial
Grade	Average
Stories:	2.5
Occupancy	
Exterior Wall 1	Brick/Masonry
Exterior Wall 2	
Roof Structure	Gable/Hip
Roof Cover	Asph/F Gls/Cmp
Interior Wall 1	Plastered
Interior Wall 2	
Interior Floor 1	Hardwood
Interior Floor 2	Concr-Finished
Heating Fuel	Oil
Heating Type	Hot Water
AC Type	None
Bldg Use	Com/Res MDL94
Total Rooms	
Total Bedrms	09
Total Baths	7

Building Layout



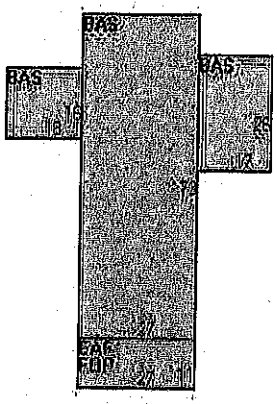
Building Sub-Areas (sq ft)			Legend
Code	**Description**	**Gross Area**	**Living Area**
BAS	First Floor	4,968	4,968
FBM	Basement, Finished	4,608	4,608
FUS	Upper Story, Finished	3,348	3,348
FHS	Half Story, Finished	2,988	1,494
FOP	Porch, Open, Finished	252	0
		16,164	14,418

1st Floor Use:	1-1C
Heat/AC	HEAT/AC SPLIT
Frame Type	WOOD FRAME
Baths/Plumbing	AVERAGE
Ceiling/Wall	CEIL & WALLS
Rooms/Prtns	AVERAGE
Wall Height	9
% Comn Wall	

Building 19 : Section 1

Year Built: 1939
Living Area: 2,805
Replacement Cost: $545,678
Replacement Cost Less Depreciation: $409,300

Building Layout



Building Attributes : Bldg 19 of 35	
Field	**Description**
STYLE	Churches
MODEL	Commercial
Grade	Average
Stories:	1
Occupancy	
Exterior Wall 1	Brick/Masonry
Exterior Wall 2	
Roof Structure	Gable/Hip
Roof Cover	Slate
Interior Wall 1	Plastered
Interior Wall 2	
Interior Floor 1	Hardwood
Interior Floor 2	Concr-Finished
Heating Fuel	Oil
Heating Type	Hot Water
AC Type	None
Bldg Use	Com/Res MDL94
Total Rooms	
Total Bedrms	00
Total Baths	0
1st Floor Use:	1-1C
Heat/AC	HEAT/AC SPLIT
Frame Type	WOOD FRAME
Baths/Plumbing	AVERAGE
Ceiling/Wall	CEIL & WALLS

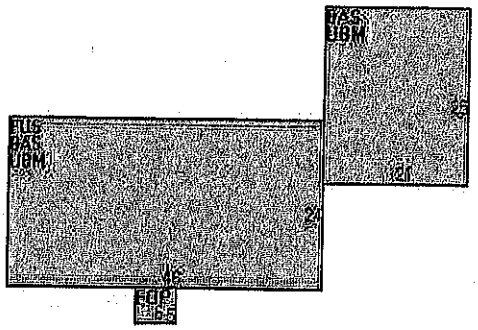
Building Sub-Areas (sq ft)			Legend
Code	**Description**	**Gross Area**	**Living Area**
BAS	First Floor	2,701	2,701
EAF	Attic, Expansion, Finished	297	104
FOP	Porch, Open, Finished	297	0
		3,295	2,805

Rooms/Prtns	AVERAGE
Wall Height	16
% Comn Wall	

Building 20 : Section 1

Year Built: 1940
Living Area: 2,733
Replacement Cost: $611,437
Replacement Cost Less Depreciation: $458,600

Building Layout



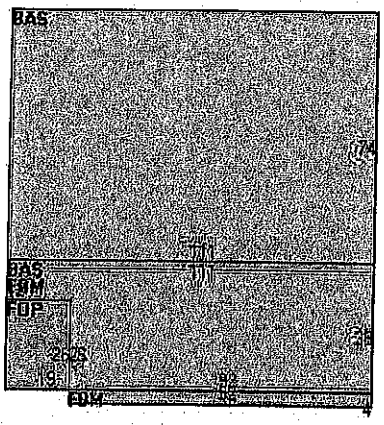
Building Attributes : Bldg 20 of 35	
Field	**Description**
STYLE	Hospital
MODEL	Commercial
Grade	Average
Stories:	2
Occupancy	
Exterior Wall 1	Brick/Masonry
Exterior Wall 2	
Roof Structure	Gable/Hip
Roof Cover	Asbestos Shing
Interior Wall 1	Plastered
Interior Wall 2	
Interior Floor 1	Hardwood
Interior Floor 2	
Heating Fuel	Oil
Heating Type	Steam
AC Type	None
Bldg Use	Com/Res MDL94
Total Rooms	
Total Bedrms	02
Total Baths	6
1st Floor Use:	1-1C
Heat/AC	HEAT/AC SPLIT
Frame Type	WOOD FRAME
Baths/Plumbing	AVERAGE
Ceiling/Wall	CEIL & WALLS
Rooms/Prtns	AVERAGE
Wall Height	9
% Comn Wall	

Building Sub-Areas (sq ft)			Legend
Code	**Description**	**Gross Area**	**Living Area**
BAS	First Floor	1,629	1,629
FUS	Upper Story, Finished	1,104	1,104
FOP	Porch, Open, Finished	30	0
UBM	Basement, Unfinished	1,629	0
		4,392	2,733

Building 21 : Section 1

Year Built: 1975
Living Area: 16,030
Replacement Cost: $650,111
Replacement Cost Less Depreciation: $533,100

Building Layout



Building Attributes : Bldg 21 of 35	
Field	**Description**
STYLE	Commercial
MODEL	Commercial
Grade	Average
Stories:	1
Occupancy	
Exterior Wall 1	Concr/Cinder
Exterior Wall 2	
Roof Structure	Shed
Roof Cover	Asph/F Gls/Cmp
Interior Wall 1	Minim/Masonry
Interior Wall 2	
Interior Floor 1	Hardwood
Interior Floor 2	Vinyl/Asphalt
Heating Fuel	Oil
Heating Type	Forced Air-Duc
AC Type	None
Bldg Use	Com/Res MDL94
Total Rooms	
Total Bedrms	00
Total Baths	4
1st Floor Use:	1-1C
Heat/AC	HEAT/AC SPLIT
Frame Type	MASONRY
Baths/Plumbing	AVERAGE
Ceiling/Wall	CEILING ONLY
Rooms/Prtns	AVERAGE
Wall Height	28
% Comn Wall	

Building Sub-Areas (sq ft)			Legend
Code	**Description**	**Gross Area**	**Living Area**
BAS	First Floor	11,938	11,938
FBM	Basement, Finished	4,092	4,092
FOP	Porch, Open, Finished	494	0
		16,524	16,030

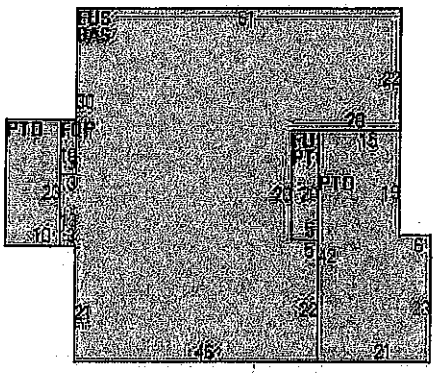
Building 22 : Section 1

Year Built: 1963
Living Area: 6,526
Replacement Cost: $700,665

Replacement Cost
Less Depreciation: $560,500

Building Attributes : Bldg 22 of 35	
Field	**Description**
STYLE	School/College
MODEL	Commercial
Grade	Average
Stories:	2
Occupancy	
Exterior Wall 1	Brick/Masonry
Exterior Wall 2	
Roof Structure	Gable/Hip
Roof Cover	Slate
Interior Wall 1	Minim/Masonry
Interior Wall 2	
Interior Floor 1	Vinyl/Asphalt
Interior Floor 2	
Heating Fuel	Oil
Heating Type	Hot Water
AC Type	None
Bldg Use	Com/Res MDL94
Total Rooms	
Total Bedrms	00
Total Baths	1
1st Floor Use:	1-1C
Heat/AC	HEAT/AC SPLIT
Frame Type	REINF. CONCR
Baths/Plumbing	AVERAGE
Ceiling/Wall	CEIL & WALLS
Rooms/Prtns	AVERAGE
Wall Height	10
% Comn Wall	

Building Layout



Building Sub-Areas (sq ft)			Legend
Code	**Description**	**Gross Area**	**Living Area**
FUS	Upper Story, Finished	3,313	3,313
BAS	First Floor	3,213	3,213
FOP	Porch, Open, Finished	30	0
PTO	Patio	1,098	0
		7,654	6,526

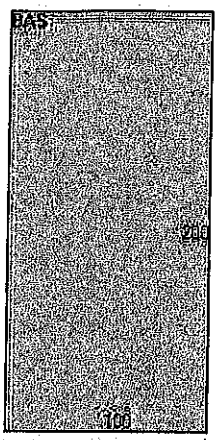
Building 23 : Section 1

Year Built: 1963
Living Area: 20,000
Replacement Cost: $1,285,000
Replacement Cost
Less Depreciation: $1,028,000

Building Attributes : Bldg 23 of 35	
Field	**Description**
STYLE	School/College

MODEL	Commercial
Grade	Average
Stories:	1
Occupancy	
Exterior Wall 1	Concr/Cinder
Exterior Wall 2	
Roof Structure	Bowstring Trus
Roof Cover	Asph/F Gls/Cmp
Interior Wall 1	Minim/Masonry
Interior Wall 2	
Interior Floor 1	Concr-Finished
Interior Floor 2	
Heating Fuel	Coal or Wood
Heating Type	None
AC Type	None
Bldg Use	Com/Res MDL94
Total Rooms	
Total Bedrms	00
Total Baths	0
1st Floor Use:	1-1C
Heat/AC	NONE
Frame Type	REINF. CONCR
Baths/Plumbing	NONE
Ceiling/Wall	NONE
Rooms/Prtns	LIGHT
Wall Height	16
% Comn Wall	

Building Layout



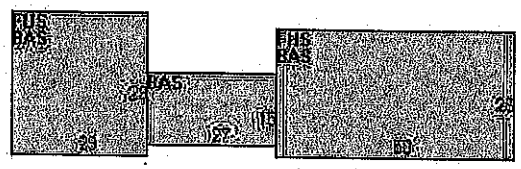
Building Sub-Areas (sq ft)			Legend
Code	Description	Gross Area	Living Area
BAS	First Floor	20,000	20,000
		20,000	20,000

Building 24 : Section 1

Year Built: 1940
Living Area: 4,037
Replacement Cost: $399,824
Replacement Cost Less Depreciation: $299,900

Building Attributes : Bldg 24 of 35	
Field	Description
STYLE	Dormitory
MODEL	Commercial
Grade	Average
Stories:	2
Occupancy	
Exterior Wall 1	Clapboard

Building Layout



Exterior Wall 2	
Roof Structure	Gable/Hip
Roof Cover	Asph/F Gls/Cmp
Interior Wall 1	Drywall/Sheet
Interior Wall 2	
Interior Floor 1	Hardwood
Interior Floor 2	Carpet
Heating Fuel	Oil
Heating Type	Hot Water
AC Type	None
Bldg Use	Com/Res MDL94
Total Rooms	
Total Bedrms	09
Total Baths	4
1st Floor Use:	1-1C
Heat/AC	HEAT/AC SPLIT
Frame Type	WOOD FRAME
Baths/Plumbing	AVERAGE
Ceiling/Wall	CEIL & WALLS
Rooms/Prtns	AVERAGE
Wall Height	8
% Comn Wall	

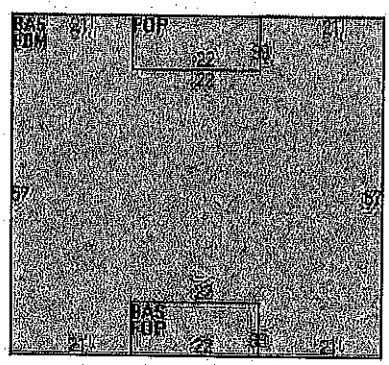
Building Sub-Areas (sq ft)			Legend
Code	Description	Gross Area	Living Area
BAS	First Floor	2,546	2,546
FUS	Upper Story, Finished	841	841
FHS	Half Story, Finished	1,300	650
		4,687	4,037

Building 25 : Section 1

Year Built: 1970
Living Area: 6,702
Replacement Cost: $460,046
Replacement Cost Less Depreciation: $377,200

Building Attributes : Bldg 25 of 35	
Field	Description
STYLE	School/College
MODEL	Commercial
Grade	Average
Stories:	2
Occupancy	
Exterior Wall 1	Concr/Cinder
Exterior Wall 2	
Roof Structure	Irregular
Roof Cover	Wood Shingle
Interior Wall 1	Minim/Masonry
Interior Wall 2	

Building Layout



Building Sub-Areas (sq ft)			Legend
Code	Description	Gross Area	Living Area
BAS	First Floor	3,450	3,450
FBM	Basement, Finished	3,252	3,252

Interior Floor 1	Concr-Finished
Interior Floor 2	Vinyl/Asphalt
Heating Fuel	Oil
Heating Type	Forced Air-Duc
AC Type	None
Bldg Use	Com/Res MDL94
Total Rooms	
Total Bedrms	00
Total Baths	5
1st Floor Use:	1-1C
Heat/AC	HEAT/AC SPLIT
Frame Type	WOOD FRAME
Baths/Plumbing	AVERAGE
Ceiling/Wall	CEIL & WALLS
Rooms/Prtns	AVERAGE
Wall Height	
% Comn Wall	

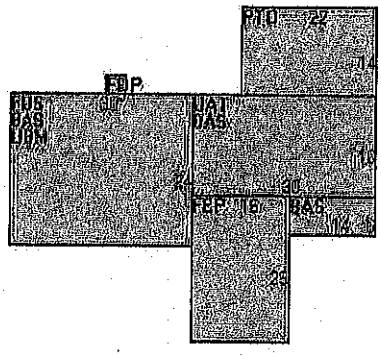
FOP	Porch, Open, Finished	396	0
		7,098	6,702

Building 26 : Section 1

Year Built: 1820
Living Area: 2,004
Replacement Cost: $219,388
Replacement Cost Less Depreciation: $188,700

Building Attributes : Bldg 26 of 35	
Field	**Description**
Style	Colonial
Model	Residential
Grade:	04
Stories:	2
Occupancy	1
Exterior Wall 1	Clapboard
Exterior Wall 2	
Roof Structure:	Gable/Hip
Roof Cover	Asph/F Gls/Cmp
Interior Wall 1	Plastered
Interior Wall 2	
Interior Flr 1	Pine/Soft Wood
Interior Flr 2	
Heat Fuel	Oil
Heat Type:	Forced Air-Duc
AC Type:	None

Building Layout



Building Sub-Areas (sq ft)			Legend
Code	**Description**	**Gross Area**	**Living Area**
BAS	First Floor	1,284	1,284
FUS	Upper Story, Finished	720	720
FEP	Porch, Enclosed, Finished	368	0
FOP	Porch, Open, Finished	9	0
PTO	Patio	308	0
UAT	Attic, Unfinished	480	0
UBM	Basement, Unfinished	720	0

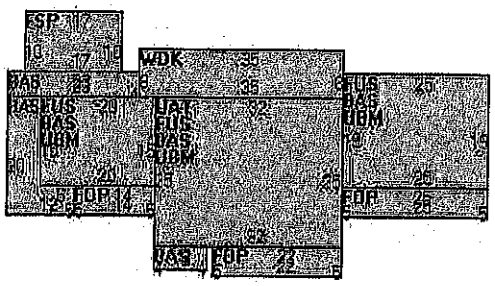
Total Bedrooms:	3 Bedrooms
Total Bthrms:	2
Total Half Baths:	0
Total Xtra Fixtrs:	
Total Rooms:	7
Bath Style:	Average
Kitchen Style:	Average

		3,889	2,004

Building 27 : Section 1

Year Built: 1920
Living Area: 3,428
Replacement Cost: $288,973
Replacement Cost Less Depreciation: $216,700

Building Layout



Building Attributes : Bldg 27 of 35	
Field	**Description**
Style	Colonial
Model	Residential
Grade:	04
Stories:	2
Occupancy	1
Exterior Wall 1	Clapboard
Exterior Wall 2	
Roof Structure:	Gable/Hip
Roof Cover	Asph/F Gls/Cmp
Interior Wall 1	Plastered
Interior Wall 2	
Interior Flr 1	Pine/Soft Wood
Interior Flr 2	
Heat Fuel	Oil
Heat Type:	Hot Water
AC Type:	None
Total Bedrooms:	5 Bedrooms
Total Bthrms:	3
Total Half Baths:	0
Total Xtra Fixtrs:	
Total Rooms:	9
Bath Style:	Average
Kitchen Style:	Average

Building Sub-Areas (sq ft)			Legend
Code	**Description**	**Gross Area**	**Living Area**
BAS	First Floor	1,853	1,853
FUS	Upper Story, Finished	1,575	1,575
FOP	Porch, Open, Finished	305	0
FSP	Porch, Screen, Finished	170	0
UAT	Attic, Unfinished	800	0
UBM	Basement, Unfinished	1,575	0
WDK	Deck, Wood	280	0
		6,558	3,428

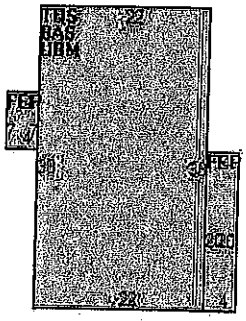
Building 28 : Section 1

Year Built: 1940

Building Layout

Living Area: 1,463
Replacement Cost: $158,198
Replacement Cost Less Depreciation: $118,600

Building Attributes : Bldg 28 of 35	
Field	**Description**
Style	Conventional
Model	Residential
Grade:	03
Stories:	1.75
Occupancy	1
Exterior Wall 1	Clapboard
Exterior Wall 2	
Roof Structure:	Gable/Hip
Roof Cover	Asph/F Gls/Cmp
Interior Wall 1	Plastered
Interior Wall 2	
Interior Flr 1	Hardwood
Interior Flr 2	
Heat Fuel	Oil
Heat Type:	Hot Water
AC Type:	None
Total Bedrooms:	4 Bedrooms
Total Bthrms:	1
Total Half Baths:	1
Total Xtra Fixtrs:	
Total Rooms:	7
Bath Style:	Average
Kitchen Style:	Average



Building Sub-Areas (sq ft)			Legend
Code	**Description**	**Gross Area**	**Living Area**
BAS	First Floor	836	836
TQS	Three Quarter Story	836	627
FEP	Porch, Enclosed, Finished	108	0
UBM	Basement, Unfinished	836	0
		2,616	1,463

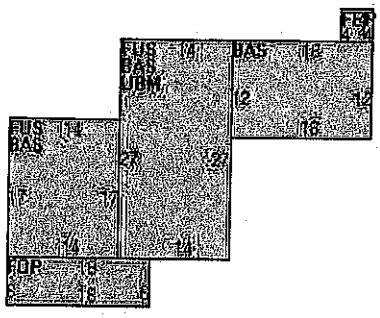
Building 29 : Section 1

Year Built: 1930
Living Area: 1,448
Replacement Cost: $162,984
Replacement Cost Less Depreciation: $122,200

Building Attributes : Bldg 29 of 35	
Field	**Description**
Style	Colonial
Model	Residential
Grade:	04
Stories:	2
Occupancy	1

Exterior Wall 1	Clapboard
Exterior Wall 2	
Roof Structure:	Gable/Hip
Roof Cover	Asph/F Gls/Cmp
Interior Wall 1	Plastered
Interior Wall 2	
Interior Flr 1	Hardwood
Interior Flr 2	
Heat Fuel	Oil
Heat Type:	Forced Air-Duc
AC Type:	None
Total Bedrooms:	3 Bedrooms
Total Bthrms:	1
Total Half Baths:	
Total Xtra Fixtrs:	
Total Rooms:	8
Bath Style:	Average
Kitchen Style:	Average

Building Layout



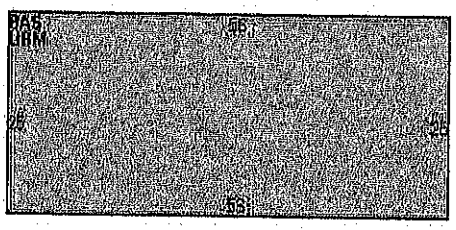
Building Sub-Areas (sq ft)			Legend
Code	Description	Gross Area	Living Area
BAS	First Floor	832	832
FUS	Upper Story, Finished	616	616
FEP	Porch, Enclosed, Finished	16	0
FOP	Porch, Open, Finished	108	0
UBM	Basement, Unfinished	378	0
		1,950	1,448

Building 30 : Section 1

Year Built: 1945
Living Area: 1,400
Replacement Cost: $151,060
Replacement Cost Less Depreciation: $101,200

Building Attributes : Bldg 30 of 35	
Field	Description
Style	Ranch
Model	Residential
Grade:	03
Stories:	1
Occupancy	1
Exterior Wall 1	Wood Shingle
Exterior Wall 2	
Roof Structure:	Gable/Hip
Roof Cover	Asph/F Gls/Cmp
Interior Wall 1	Drywall
Interior Wall 2	
Interior Flr 1	Hardwood
Interior Flr 2	

Building Layout



Building Sub-Areas (sq ft)			Legend
Code	Description	Gross Area	Living Area
BAS	First Floor	1,400	1,400
UBM	Basement, Unfinished	1,400	0
		2,800	1,400

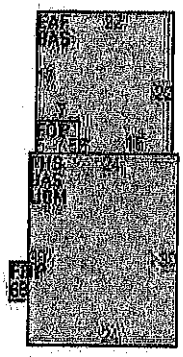
Heat Fuel	Oil
Heat Type:	Hot Water
AC Type:	None
Total Bedrooms:	3 Bedrooms
Total Bthrms:	1
Total Half Baths:	1
Total Xtra Fixtrs:	
Total Rooms:	6
Bath Style:	Average
Kitchen Style:	Average

Building 31 : Section 1

Year Built: 1950
Living Area: 1,686
Replacement Cost: $176,997
Replacement Cost Less Depreciation: $138,100

Building Attributes : Bldg 31 of 35	
Field	**Description**
Style	Conventional
Model	Residential
Grade:	04
Stories:	1.5
Occupancy	1
Exterior Wall 1	Concr/Cinder
Exterior Wall 2	
Roof Structure:	Gable/Hip
Roof Cover	Asph/F Gls/Cmp
Interior Wall 1	Drywall
Interior Wall 2	
Interior Flr 1	Hardwood
Interior Flr 2	
Heat Fuel	Oil
Heat Type:	Hot Water
AC Type:	None
Total Bedrooms:	3 Bedrooms
Total Bthrms:	2
Total Half Baths:	0
Total Xtra Fixtrs:	
Total Rooms:	6
Bath Style:	Average
Kitchen Style:	Average

Building Layout

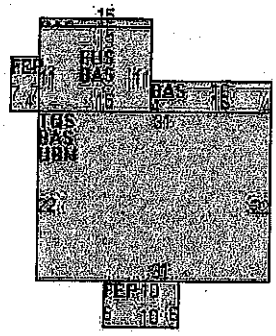


Building Sub-Areas (sq ft)			Legend
Code	**Description**	**Gross Area**	**Living Area**
BAS	First Floor	1,169	1,169
FHS	Half Story, Finished	720	360
EAF	Attic, Expansion, Finished	449	157
FOP	Porch, Open, Finished	53	0
UBM	Basement, Unfinished	720	0
		3,111	1,686

Building 32 : Section 1

Year Built: 1750
Living Area: 1,603
Replacement Cost: $178,076
Replacement Cost Less Depreciation: $124,700

Building Layout



Building Attributes : Bldg 32 of 35	
Field	**Description**
Style	Colonial
Model	Residential
Grade:	04
Stories:	1.75
Occupancy	1
Exterior Wall 1	Wood Shingle
Exterior Wall 2	
Roof Structure:	Gable/Hip
Roof Cover	Asph/F Gls/Cmp
Interior Wall 1	Plastered
Interior Wall 2	
Interior Flr 1	Pine/Soft Wood
Interior Flr 2	
Heat Fuel	Oil
Heat Type:	Steam
AC Type:	None
Total Bedrooms:	4 Bedrooms
Total Bthrms:	1
Total Half Baths:	1
Total Xtra Fixtrs:	
Total Rooms:	8
Bath Style:	Average
Kitchen Style:	Average

Building Sub-Areas (sq ft)			Legend
Code	**Description**	**Gross Area**	**Living Area**
BAS	First Floor	926	926
TQS	Three Quarter Story	682	512
FUS	Upper Story, Finished	165	165
FEP	Porch, Enclosed, Finished	88	0
UBM	Basement, Unfinished	682	0
		2,543	1,603

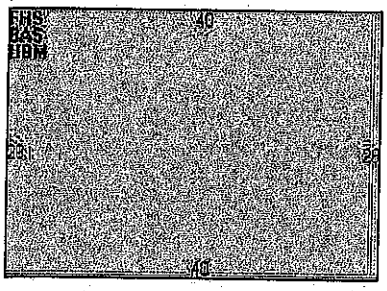
Building 33 : Section 1

Year Built: 1935
Living Area: 1,680
Replacement Cost: $146,445
Replacement Cost Less Depreciation: $109,800

Building Attributes : Bldg 33 of 35	
Field	**Description**
Style	Cape Cod
Model	Residential

Grade:	04
Stories:	1.5
Occupancy	1
Exterior Wall 1	Concr/Cinder
Exterior Wall 2	
Roof Structure:	Gable/Hip
Roof Cover	Asph/F Gls/Cmp
Interior Wall 1	Drywall
Interior Wall 2	
Interior Flr 1	Hardwood
Interior Flr 2	
Heat Fuel	Oil
Heat Type:	Hot Water
AC Type:	None
Total Bedrooms:	4 Bedrooms
Total Bthrms:	2
Total Half Baths:	0
Total Xtra Fixtrs:	
Total Rooms:	7
Bath Style:	Average
Kitchen Style:	Average

Building Layout



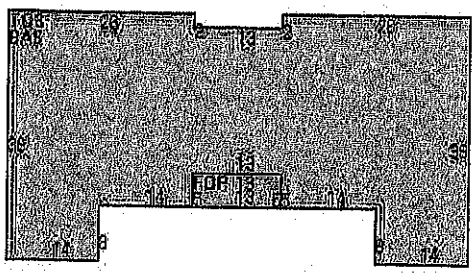
Building Sub-Areas (sq ft)			Legend
Code	Description	Gross Area	Living Area
BAS	First Floor	1,120	1,120
FHS	Half Story, Finished	1,120	560
UBM	Basement, Unfinished	1,120	0
		3,360	1,680

Building 34 : Section 1

Year Built: 2013
Living Area: 3,614
Replacement Cost: $298,736
Replacement Cost Less Depreciation: $298,700

Building Attributes : Bldg 34 of 35	
Field	Description
Style	Ranch
Model	Residential
Grade:	05
Stories:	2
Occupancy	2
Exterior Wall 1	Vinyl Siding
Exterior Wall 2	
Roof Structure:	Gable/Hip
Roof Cover	Asph/F Gls/Cmp
Interior Wall 1	Drywall
Interior Wall 2	
Interior Flr 1	Hardwood

Building Layout



Building Sub-Areas (sq ft)			Legend
Code	Description	Gross Area	Living Area
BAS	First Floor	2,065	2,065
TQS	Three Quarter Story	2,065	1,549
FOP	Porch, Open, Finished	65	0

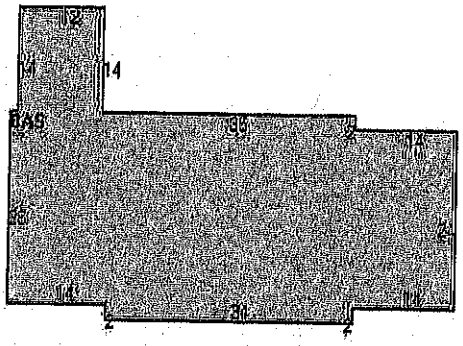
Interior Flr 2	Carpet
Heat Fuel	Gas
Heat Type:	Hot Water
AC Type:	Central
Total Bedrooms:	4 Bedrooms
Total Bthrms:	2
Total Half Baths:	0
Total Xtra Fixtrs:	
Total Rooms:	9
Bath Style:	Average
Kitchen Style:	Average

		4,195	3,614

Building 35 : Section 1

Year Built: 2013
Living Area: 1,820
Replacement Cost: $204,164
Replacement Cost Less Depreciation: $204,200

Building Layout



Building Attributes : Bldg 35 of 35	
Field	**Description**
Style	Ranch
Model	Residential
Grade:	05
Stories:	1.75
Occupancy	2
Exterior Wall 1	Vinyl Siding
Exterior Wall 2	
Roof Structure:	Gable/Hip
Roof Cover	Asph/F Gls/Cmp
Interior Wall 1	Drywall
Interior Wall 2	
Interior Flr 1	Hardwood
Interior Flr 2	Carpet
Heat Fuel	Gas
Heat Type:	Hot Water
AC Type:	Central
Total Bedrooms:	4 Bedrooms
Total Bthrms:	3
Total Half Baths:	1
Total Xtra Fixtrs:	
Total Rooms:	9
Bath Style:	Average

Buiiding Sub-Areas (sq ft)			Legend
Code	**Description**	**Gross Area**	**Living Area**
BAS	First Floor	1,820	1,820
		1,820	1,820

Kitchen Style:	Average

Extra Features

Extra Features				Legend
Code	Description	Size	Value	Bldg #
BGAR	BASEMENT GARAG	1 UNITS	$1,000	30
FPL1	FIREPLACE 1 ST	1 UNITS	$3,800	1
FPL1	FIREPLACE 1 ST	1 UNITS	$3,800	6
FPL1	FIREPLACE 1 ST	1 UNITS	$3,900	5
FPL1	FIREPLACE 1 ST	1 UNITS	$4,100	7
FPL1	FIREPLACE 1 ST	1 UNITS	$4,100	8
FPL1	FIREPLACE 1 ST	2 UNITS	$8,600	26
FPL2	1.5 STORY CHIM	1 UNITS	$3,800	28
FPL2	1.5 STORY CHIM	1 UNITS	$3,800	33
FPL2	1.5 STORY CHIM	1 UNITS	$3,900	31
FPL3	2 STORY CHIM	1 UNITS	$3,000	2
FPL3	2 STORY CHIM	1 UNITS	$3,800	16
FPL3	2 STORY CHIM	1 UNITS	$3,800	18
FPL3	2 STORY CHIM	2 UNITS	$7,500	24
FPL3	2 STORY CHIM	3 UNITS	$14,000	12
FPL1	FIREPLACE 1 ST	1 UNITS	$4,000	13
FPL3	2 STORY CHIM	1 UNITS	$3,500	32
FPL3	2 STORY CHIM	1 UNITS	$3,800	14
FPL3	2 STORY CHIM	2 UNITS	$7,500	27
FPO	EXTRA FPL OPEN	1 UNITS	$1,800	32

Land

Land Use

Use Code 930R
Description Exempt MDL01
Alt Land Appr No
Category

Land Line Valuation

Size (Acres) 117
Frontage 0
Depth 0
Assessed Value $1,548,200
Appraised Value $2,211,600

Outbuildings

Outbuildings						Legend
Code	Description	Sub Code	Sub Description	Size	Value	Bldg #
BRN4	BARN 1ST W L/B			480 S.F.	$5,000	27
FCP	CARPORT			880 S.F.	$7,900	14
FGR1	GARAGE-AVE			560 S.F.	$10,500	29

PMP1	PUMP-SING HSE			180 UNITS	$0	1
SHD1	SHED FRAME			120 S.F.	$800	32
SHD1	SHED FRAME			600 S.F.	$1,100	10
TEN	TENNIS COURT			4 UNITS	$90,000	13
TEN	TENNIS COURT			4 UNITS	$90,000	19
BRN1	BARN - 1 STORY			264 S.F.	$3,600	1
FCP	CARPORT			360 S.F.	$3,200	31
PAV1	PAVING-ASPHALT			25000 S.F.	$30,900	1
BRN1	BARN - 1 STORY			5616 S.F.	$75,800	1
SHD1	SHED FRAME			140 S.F.	$1,900	1
SPL1	POOL-INGR CONC			1250 S.F.	$17,500	7
GEN	GENERATOR			2 UNITS	$14,300	1
SHD1	SHED FRAME			200 S.F.	$2,700	1
GEN	GENERATOR			1 UNITS	$6,400	1
IMP	IMPLEMENT SHED			1440 S.F.	$6,500	1
IMP	IMPLEMENT SHED			1000 S.F.	$4,500	1
IMP	IMPLEMENT SHED			920 S.F.	$4,100	1
SLO1	SILO-WD OR CNC			576 DIAxHT	$6,000	1

verizon

KENT S CT
40 BULLS BRIDGE ROAD
KENT, CT 06757

PROJECT SUMMARY

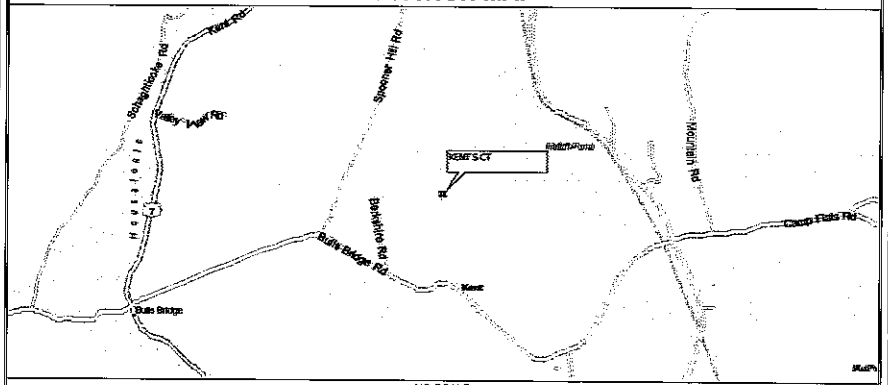
SITE NAME:	KENT S CT
SITE ADDRESS:	40 BULLS BRIDGE ROAD KENT, CT 06757
TOWER OWNER:	CROWN CASTLE 2000 CORPORATE DR CANONSBURG, PA 15317
BU NUMBER:	841293
MAP NUMBER: LOT NUMBER:	6 9
CUSTOMER/APPLICANT:	VERIZON WIRELESS 20 ALEXANDER DRIVE WALLINGFORD, CT 06492
CONTACT:	JIM O'DONNELL (413) 575-2626
NAD83	
LATITUDE: LONGITUDE: ELEVATION:	41° 40' 53.69" N 73° 29' 11.6" W 786'
CURRENT ZONING:	N/A
A&E FIRM:	B+T GROUP 1717 S. BOULDER, SUITE 300 TULSA, OK 74119 STEVE THORNHILL (918) 587-4630
OCCUPANCY TYPE:	UNMANNED
A.D.A. COMPLIANCE:	FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION.

CODE COMPLIANCE

ALL WORK SHALL BE PERFORMED AND MATERIALS INSTALLED IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE FOLLOWING CODES AS ADOPTED BY THE LOCAL GOVERNING AUTHORITIES. NOTHING IN THESE PLANS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THESE CODES:

CODE TYPE	CODE
BUILDING	IBC 2012
STRUCTURAL	IBC 2012
MECHANICAL	IMC 2012
ELECTRICAL	NEC 2014

LOCATION MAP



NO SCALE

DRIVING DIRECTIONS

DEPART FROM NEW YORK STEWART INTERNATIONAL AIRPORT: HEAD NORTH ON 1ST ST/CIRCULATION DR TOWARD A ST CONTINUE TO FOLLOW CIRCULATION DR. CONTINUE ONTO BRUENIG RD. CONTINUE ONTO BRUENIG RD. TURN RIGHT ONTO INTERNATIONAL BLVD. TURN RIGHT ONTO NY-747 N. TURN RIGHT ONTO THE INTERSTATE 84 E RAMP TO INTERSTATE 87. MERGE ONTO I-84 E. KEEP LEFT TO STAY ON I-84 E. TAKE EXIT 16N FOR TACONIC STATE PKWY N TOWARD ALBANY. MERGE ONTO TACONIC STATE PARKWAY. TAKE THE BEEKMAN RD EXIT TOWARD HOPEWELL JCT/SYLVAN LAKE. TURN RIGHT ONTO BEEKMAN RD. CONTINUE ONTO CLOVE VALLEY RD. AT THE TRAFFIC CIRCLE, TAKE THE 1ST EXIT ONTO PLEASANT RIDGE RD/WINGDALE MOUNTAIN RD CONTINUE TO FOLLOW PLEASANT RIDGE RD. TURN LEFT ONTO STATE RTE 55 E. TURN RIGHT ONTO STATE RTE 55. TURN LEFT ONTO DOG TAIL CORNERS RD. TURN RIGHT TO STAY ON DOG TAIL CORNERS RD. TURN RIGHT TO STAY ON DOG TAIL CORNERS RD. DOG TAIL CORNERS RD TURNS SLIGHTLY LEFT AND BECOMES BULLS BRIDGE RD ENTERING CONNECTICUT. TURN LEFT ONTO BERKSHIRE RD. ARRIVE AT KENT S CT.

DRAWING INDEX

SHEET #	SHEET DESCRIPTION	REV. #
T-1	TITLE SHEET	0
A-1	COMPOUND PLAN AND TOWER ELEVATION	0
A-2	EQUIPMENT DETAILS	0

A/E DOCUMENT REVIEW STATUS

TITLE	SIGNATURE	DATE
OWNER:		
R.F. ENGINEER:		
CONSTRUCTION MGR.:		
LEASING & ZONING:		
VERIZON WIRELESS:		

THE FOLLOWING PARTIES HEREBY APPROVE AND ACCEPT THESE DOCUMENTS AND AUTHORIZE THE CONTRACTOR TO PROCEED WITH THE CONSTRUCTION DESCRIBED HEREIN. ALL DOCUMENTS ARE SUBJECT TO REVIEW BY THE LOCAL BUILDING DEPARTMENT AND MAY IMPOSE CHANGES OR MODIFICATIONS.

DO NOT SCALE DRAWINGS

ALL DRAWINGS CONTAINED HEREIN ARE FORMATTED FOR 11x17. CONTRACTOR SHALL VERIFY ALL PLANS AND EXISTING DIMENSIONS AND CONDITIONS ON THE JOB SITE AND SHALL IMMEDIATELY NOTIFY THE ENGINEER IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR SAME.

CALL CONNECTICUT ONE CALL
(800) 922-4455
CALL 3 WORKING DAYS
BEFORE YOU DIG!

811

B+T GRP

verizon
400 FRIBERG PARKWAY
WESTBOROUGH, MA 01581
PH: (508) 330-3300

KENT S CT
40 BULLS BRIDGE ROAD
KENT, CT 06757
EXISTING MONOPOLE

PROJECT NO:	127877.001.01
CHECKED BY:	RPS

ISSUED FOR:

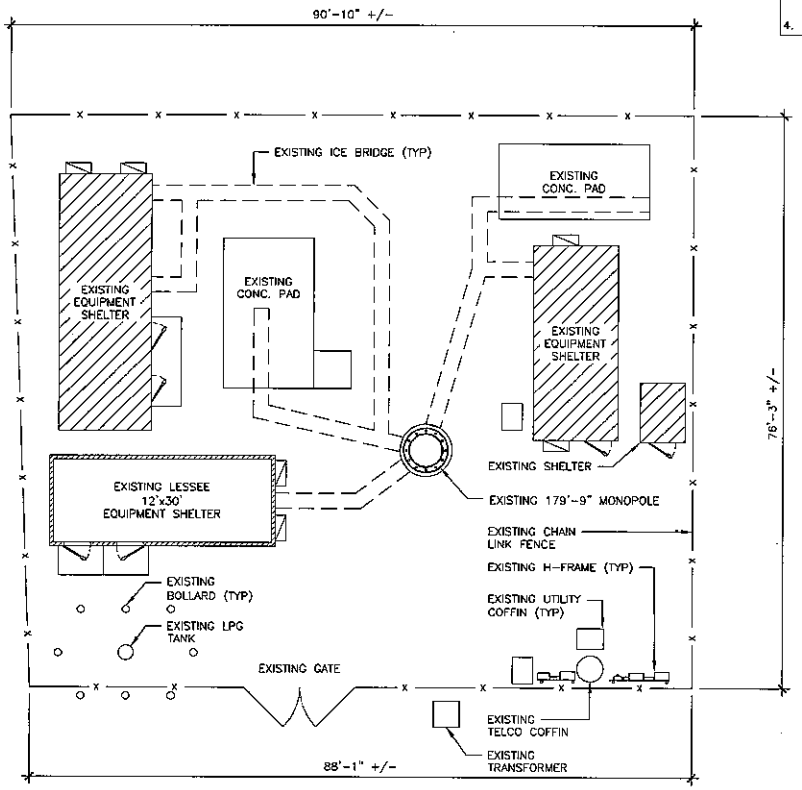
REV	DATE	DRWN	DESCRIPTION
A	8/21/18	JCO	PRELIMINARY REVIEW
0	12/13/18	CEH	CONSTRUCTION

B&T ENGINEERING, INC.
PEC.0001564
Expires 2/10/19

STATE OF CONNECTICUT
31627
LICENSED
PROFESSIONAL ENGINEER
12/13/18

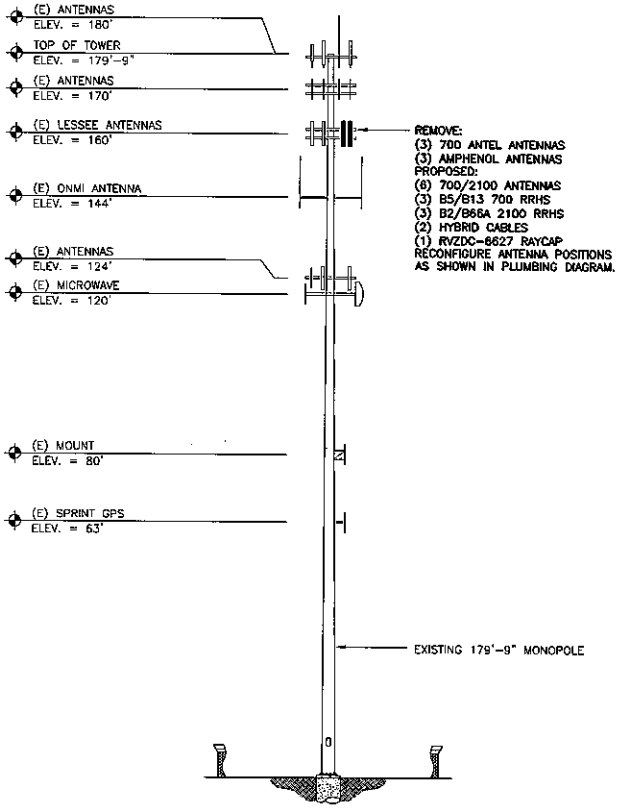
SHEET NUMBER: T-1
REVISION: 0

NOTES:
1. CONTRACTOR TO VERIFY EXACT COAX AND ANTENNA INSTALLATION AND ANTENNA HEIGHT WITH LATEST RF DATA SHEETS PRIOR TO INSTALLATION.
2. STRUCTURAL ANALYSIS DONE BY OTHERS.
3. VERIZON SHALL PROVIDE A STRUCTURAL ANALYSIS OF THE TOWER PREPARED BY A LICENSED STATE STRUCTURAL ENGINEER CERTIFYING THAT THE EXISTING TOWER AND PROPOSED IMPROVEMENTS HAVE SUFFICIENT CAPACITY TO SUPPORT ALL NEW WORK THAT WILL BE DONE IN COMPLIANCE WITH THE CURRENT EDITION OF BUILDING CODES AND EIA/TIA CRITERIA. THE CONTRACTOR IS RESPONSIBLE TO CONFIRM THAT ANY AND ALL IMPROVEMENTS REQUIRED BY THE STRUCTURAL ANALYSIS CERTIFICATION ARE PROPERLY INSTALLED PRIOR TO THE ADDITION OF ANTENNAS, SUPPORTS AND APPURTENANCES PROPOSED ON THESE DRAWING OTHERWISE NOTED IN THE STRUCTURAL ANALYSIS.CAP AND WEATHERPROFF UNUSED ANTENNA PORTS.
4. ESTIMATED HYBRIFLEX CABLE LENGTH: 190' (EACH RUN)



1 COMPOUND PLAN
SCALE: 0' 1' 4' 8' 16'

N



2 FINAL TOWER ELEVATION
SCALE: 0' 15' 30' 45' 60' 1"=30'

B+T GRP

verizon

400 FRIBERG PARKWAY
WESTBOROUGH, MA 01581
PH: (508) 330-3300

KENT S CT

40 BULLS BRIDGE ROAD
KENT, CT 06757

EXISTING MONOPOLE

PROJECT NO:	127877.001.01
CHECKED BY:	RPS

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION
A	8/21/18	JCO	PRELIMINARY REVIEW
0	12/13/18	GEH	CONSTRUCTION

B&T ENGINEERING, INC.
PEC.0001564
Expires 2/10/19

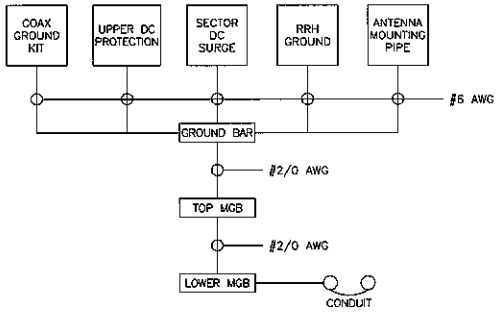
STATE OF CONNECTICUT
31627
LICENSED PROFESSIONAL ENGINEER
12/13/18

SHEET NUMBER:	REVISION:
A-1	0

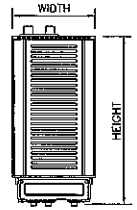
NOT AVAILABLE AT TIME OF ISSUE

NOTE:
1. INSTALL ALL EQUIPMENT, MOUNTING BRACKETS AND HARDWARE ACCORDING WITH MANUFACTURE'S RECOMMENDATIONS.
2. GROUND DISTRIBUTION BOXES, MOUNTING PIPES AND RRHs IN ACCORDANCE WITH MANUFACTURE'S RECOMMENDATIONS.
3. INSTALLED EQUIPMENT AND MOUNTING BRACKETS SHALL NOT INTERFERE WITH CLIMBING ACCESS NOR ANT INSTALLED SAFETY DEVICES.
4. EQUIPMENT TO BE INSTALLED AT VERIZON'S RAD. CENTER IN ACCORDANCE WITH TOWER STRUCTURAL ANALYSIS (ANALYSIS BY OTHERS).

REMOTE RADIO HEAD DIMENSIONS (INCHES)				
MODEL	HEIGHT	WIDTH	DEPTH	WEIGHT
B2/B66A RRHBR049	25.8"	11.9"	7.2"	68.34 LBS
B5/B13 RRHBR04C	15.7"	11.8"	4.7"	36.2 LBS

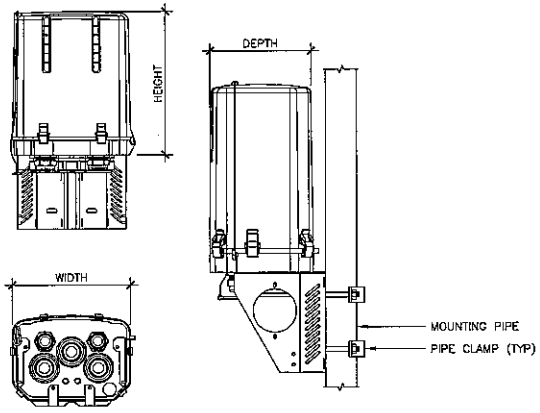


NOTE:
1. BOND ANTENNA GROUNDING KIT CABLES TO TOP CIBE.
2. BOND ANTENNA GROUNDING KIT CABLE TO BOTTOM CIBE.
3. TYPICAL FOR ALL SECTORS.



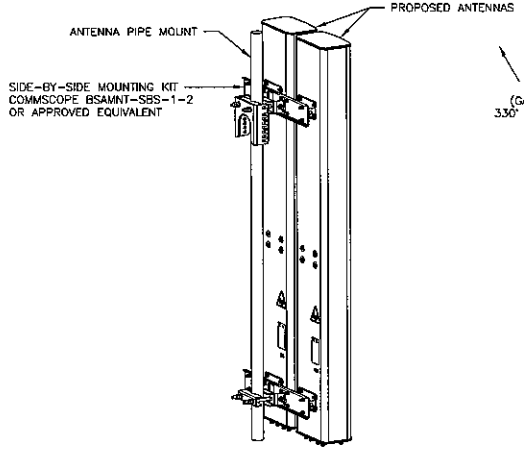
1 ANTENNA SYSTEM LAYOUT
SCALE: N.T.S.

DC SURGE SUPPRESSION DIMENSIONS (INCHES)				
MODEL	HEIGHT	WIDTH	DEPTH	WEIGHT
RVZDC-6627-PF-48	29.5"	16.5"	12.6"	32 LBS



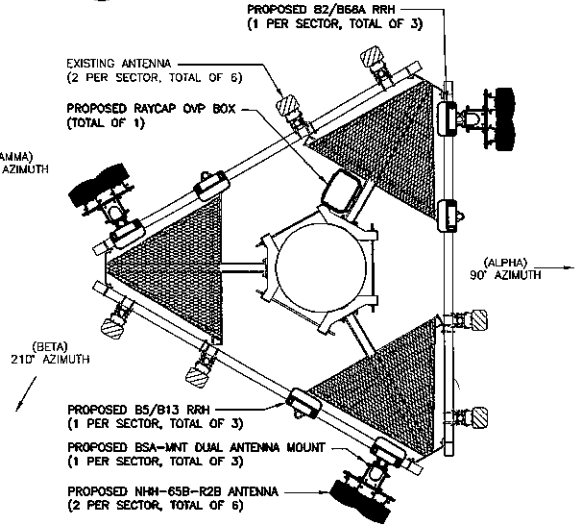
4 RAYCAP SPECIFICATIONS
SCALE: N.T.S.

2 GROUNDING SCHEMATIC DIAGRAM
SCALE: N.T.S.



5 ANTENNA MOUNTING DETAIL
SCALE: N.T.S.

3 RRH SPECIFICATIONS
SCALE: N.T.S.



6 ANTENNA ORIENTATION
SCALE: N.T.S.

B+T GRP

verizon

400 FRIBERG PARKWAY
WESTBOROUGH, MA 01581
PH: (508) 330-3300

KENT S CT

40 BULLS BRIDGE ROAD
KENT, CT 06757
EXISTING MONOPOLE

PROJECT NO:	127877.001.01
CHECKED BY:	RPS

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION
A	9/21/18	JCD	PRELIMINARY REVIEW
0	12/13/18	GEH	CONSTRUCTION

B&T ENGINEERING, INC.
PEC.0001564
Expires 2/10/19

STATE OF CONNECTICUT * SCOTT W. WIDE * 31627 LICENSED PROFESSIONAL ENGINEER
12/13/18

SHEET NUMBER: A-2
REVISION: 0

Date: **August 27, 2018**

Cheryl Schultz
Crown Castle
3530 Toringdon WaySuite 300
Charlotte, NC 28277

Destek Engineering, LLC
1281 Kennestone Circle, Suite 100
Marietta, GA 30066
(770) 693-0835

Subject:	**Structural Analysis Report**	
Carrier Designation:	***Verizon Wireless* Co-Locate**	
	Carrier Site Number:	65920
	Carrier Site Name:	Kent South
Crown Castle Designation:	**Crown Castle BU Number:**	841293
	Crown Castle Site Name:	KENT-BULLS BRIDGE ROAD
	Crown Castle JDE Job Number:	492391
	Crown Castle Work Order Number:	1603203
	Crown Castle Application Number:	431555 Rev. 0
Engineering Firm Designation:	**Destek Engineering, LLC Project Number:**	1802051
Site Data:	**136 BULLS BRIDGE ROAD, SOUTH KENT, Litchfield County, CT**	
	Latitude *41° 40' 53.85"*, Longitude *-73° 29' 11.8"*	
	179.813 Foot - Monopole Tower	

Dear Cheryl Schultz,

Destek Engineering, LLC is pleased to submit this **"Structural Analysis Report"** to determine the structural integrity of the above mentioned tower.

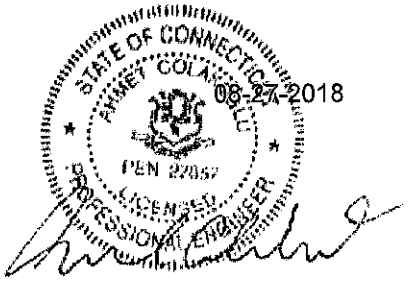
The purpose of the analysis is to determine acceptability of the tower stress level. Based on our analysis we have determined the tower stress level for the structure and foundation, under the following load case, to be:

LC7: Proposed Equipment Configuration **Sufficient Capacity**

The analysis has been performed in accordance with the TIA-222-H Standard. This analysis utilizes an ultimate 3-second gust wind speed of 115 mph from the 2016 Connecticut Building Code. Exposure Category C and Risk Category II were used in this analysis.

Structural analysis prepared by: Wade Baxter, EIT

Respectfully submitted by:



08-27-2018

Ahmet Colakoglu, PE
President

TABLE OF CONTENTS

1) INTRODUCTION

This tower is a 179.8 ft Monopole tower designed by Engineered Endeavors, Inc.

The tower has been modified per reinforcement drawings prepared by GPD Group, in December of 2012. Reinforcement consists of installing of additional anchor rods. These reinforcements are considered effective per the PMI Report by GPD Group, in August of 2013.

2) ANALYSIS CRITERIA

Building Code:	2016 Connecticut Building Code
TIA-222 Revision:	TIA-222-H
Risk Category:	II
Wind Speed:	115 mph
Exposure Category:	C
Topographic Factor:	1
Ice Thickness (Ultimate):	1.5 in
Wind Speed with Ice:	40 mph
Service Wind Speed:	60 mph

Table 1 - Proposed Equipment Configuration

Mounting Level (ft)	Center Line Elevation (ft)	Number of Antennas	Antenna Manufacturer	Antenna Model	Number of Feed Lines	Feed Line Size (in)	Note
160.0	160.0	6	antel	LPA-80080-6CF-EDIN w/ Mount Pipe	12 2	1-5/8 1-1/4	-
		1	tower mounts	Platform Mount [LP 601-1]			
		6	commscope	NHH-65B-R2B w/ Mount Pipe			
		1	raycap	RVZDC-6627-PF-48			
		3	samsung telecommunications	RFV01U-D1A			
		3	samsung telecommunications	RFV01U-D2A			

Table 2 – Other Considered Equipment

Mounting Level (ft)	Center Line Elevation (ft)	Number of Antennas	Antenna Manufacturer	Antenna Model	Number of Feed Lines	Feed Line Size (in)	Note
180.0	185.0	3	decibel	ASP-952	15 2 1	1-5/8 7/8 1/2	1
		6	powerwave technologies	LGP13519			
	182.0	6	ericsson	RRUS 11			
		1	kmw communications	AM-X-CD-14-65-00T-RET w/ Mount Pipe			
		2	kmw communications	AM-X-CD-16-65-00T-RET w/ Mount Pipe			
		6	powerwave technologies	7770.00 w/ Mount Pipe			
		6	powerwave technologies	LGP21401			

Mounting Level (ft)	Center Line Elevation (ft)	Number of Antennas	Antenna Manufacturer	Antenna Model	Number of Feed Lines	Feed Line Size (in)	Note
		1	raycap	DC6-48-60-18-8F			
	180.0	1	tower mounts	Platform Mount [LP 601-1]			
170.0	170.0	1	tower mounts	Platform Mount [LP 303-1]	3 3	1-5/8 1/4	1
		5	commscope	LNX-6515DS-A1M w/ Mount Pipe			
		1	destek	Fastback Networks - IBR 1300_CCIV2			
		4	ericsson	RRUS 11 B12			
		4	ericsson	RRUS 11 B2			
		4	ericsson	RRUS 11 B4			
		5	rfs celwave	APX16DWV-16DWV-S-E-A20 w/ Mount Pipe			
134.0	144.0	2	sinclair	SC442D-HF2LDF	6 6	1-5/8 1/2	1
	141.0	1	bird technologies group	432E-83I-01-T			
		1	sinclair	SC479-HF1LDF			
	139.0	2	decibel	DB809DK-Y			
	134.0	3	site pro	RMV5-2xx T-Arm Mounts			
		1	amphenol	WPA-700102-4CF-EDIN-9 w/ Mount Pipe			
		1	tx rx systems	422-86A-99575-18BW			
124.0	124.0	3	alcatel lucent	800MHZ RRH	4	1-1/4	1
		3	alcatel lucent	TD-RRH8x20-25			
		1	tower mounts	Platform Mount [LP 601-1]			
		3	rfs celwave	APXVSPP18-C-A20 w/ Mount Pipe			
		3	rfs celwave	APXVTM14-ALU-I20 w/ Mount Pipe			
120.0	120.0	1	tower mounts	Platform Mount [LP 601-1]	1	7/8	1
		1	eri	100-1			
80.0	80.0	2	tower mounts	Pipe Mount [PM 601-1]	-	-	1
63.0	63.0	1	tower mounts	Side Arm Mount [SO 701-1]	1	1/2	1
		1	gps	GPS_A			

3) ANALYSIS PROCEDURE

Table 3 - Documents Provided

Document	Remarks	Reference	Source
4-TOWER MANUFACTURER DRAWINGS	SpectraSite, Proj. No. CT-0014 dated 6/25/2002	4456613	CCISITES
4-POST-MODIFICATION INSPECTION	GPD, Proj. No. 2013707.52 dated 8/28/2013	4456621	CCISITES
4-TOWER FOUNDATION DRAWINGS/DESIGN/SPECS	FDH, Proj. No. 1403061500 dated 4/1/2014	4797649	CCISITES
4-GEOTECHNICAL REPORTS	GPD, Proj. No. 2012801.85 dated 11/13/2012	4456627	CCISITES
4-TOWER STRUCTURAL ANALYSIS REPORT	Black & Veatch Corp. Proj. No: 194393, dated 01/25/2018	7326172	CCISITES

3.1) Analysis Method

tnxTower (version 8.0.4.0), 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.

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

4) ANALYSIS RESULTS

Table 4 - Section Capacity (Summary)

Section No.	Elevation (ft)	Component Type	Size	Critical Element	P (K)	SF*P_allow (K)	% Capacity	Pass / Fail
L1	179.813 - 132.966	Pole	TP25.5375x15x0.25	1	-9.86	1503.40	84.5	Pass
L2	132.966 - 87.3652	Pole	TP35.1887x24.2068x0.375	2	-24.75	3131.17	86.9	Pass
L3	87.3652 - 42.7922	Pole	TP44.3577x33.3475x0.4375	3	-38.82	4585.95	83.2	Pass
L4	42.7922 - 0	Pole	TP53x42.1376x0.5	4	-42.45	5321.22	75.7	Pass
							Summary	
						Pole (L2)	86.9	Pass
						Rating =	86.9	Pass

Table 5 - Tower Component Stresses vs. Capacity – LC7

Notes	Component	Elevation (ft)	% Capacity	Pass / Fail
1	Anchor Rods	0	67.5	Pass
1	Base Plate	0	76.1	Pass
1	Base Foundation	0	49.1	Pass
1	Base Foundation Soil Interaction	0	90.1	Pass

Structure Rating (max from all components) =	90.1%

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

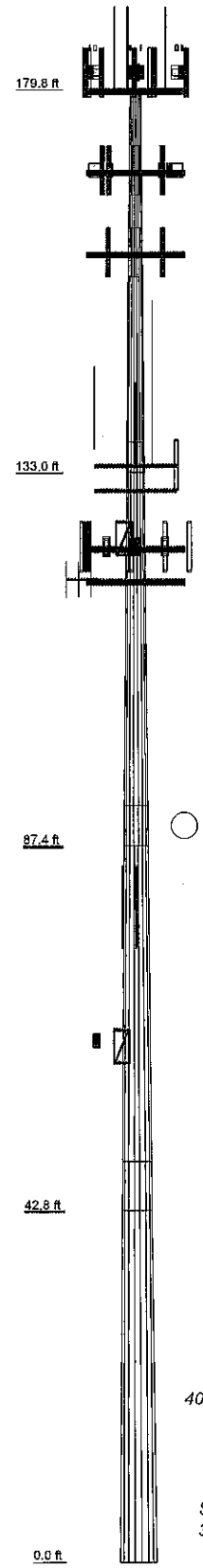
4.1) Recommendations

The tower and its foundation have sufficient capacity to carry the proposed load configuration. No modifications are required at this time.

APPENDIX A

TNXTOWER OUTPUT

Section	1	2	3	4
Length (ft)	46.85	49.29	49.47	46.84
Number of Sides	18	18	18	18
Thickness (in)	0.2500	0.3750	0.4375	0.5000
Socket Length (ft)	3.69	4.90	6.04	
Top Dia (in)	15.0000	24.2066	33.3475	42.1376
Bot Dia (in)	25.5375	35.1887	44.3577	53.0000
Grade	A572-65			
Weight (K)	2.5	5.9	9.0	12.4



ALL REACTIONS ARE FACTORED

AXIAL 97 K
SHEAR 7 K
MOM 1075
TORQUE 1 kip-ft
40 mph WIND - 1.2750 in ICE

AXIAL 59 K
SHEAR 37 K
MOM 5058 kip-ft
TORQUE 7 kip-ft
REACTIONS - 115 mph WIND

DESIGNED APPURTENANCE LOADING

TYPE	ELEVATION	TYPE	ELEVATION
Platform Mount [LP 601-1]	180	(2) LPA-80080-6CF-EDIN w/ Mount Pipe	160
Transition Ladder	180	(2) NHH-65B-R2B w/ Mount Pipe	160
7770.00 w/ Mount Pipe	180	(2) NHH-65B-R2B w/ Mount Pipe	160
7770.00 w/ Mount Pipe	180	(2) NHH-65B-R2B w/ Mount Pipe	160
7770.00 w/ Mount Pipe	180	(2) RFV01U-D1A	160
ASP-952	180	(2) RFV01U-D2A	160
ASP-952	180	RFV01U-D1A	160
ASP-952	180	RFV01U-D2A	160
AM-X-CD-16-65-00T-RET w/ Mount Pipe	180	RVZDC-6627-PF-48	160
AM-X-CD-16-65-00T-RET w/ Mount Pipe	180	(3) RMV5-2xx T-Arm Mounts [TA 702-3]	134
AM-X-CD-14-65-00T-RET w/ Mount Pipe	180	SC479-HF1LDF	134
		SC442D-HF2LDF	134
7770.00 w/ Mount Pipe	180	SC442D-HF2LDF	134
7770.00 w/ Mount Pipe	180	WPA-700102-4CF-EDIN-9 w/ Mount Pipe	134
7770.00 w/ Mount Pipe	180		
(2) LGP13519	180	(2) DB809DK-Y	134
(2) LGP13519	180	432E-83I-01-T	134
(2) LGP13519	180	422-86A-99575-18BW	134
(2) LGP21401	180	(2) 6' x 2" Mount Pipe	134
(2) LGP21401	180	6' x 2" Mount Pipe	134
(2) LGP21401	180	(2) 6' x 2" Mount Pipe	134
(2) RRUS 11	180	3.5' Hor 2.5x2.5 Angle	131
(2) RRUS 11	180	3.5' Hor 2.5x2.5 Angle	131
(2) RRUS 11	180	3.5' Hor 2.5x2.5 Angle	131
DC6-48-60-18-8F	180	Side Arm Mount [SO 701-3]	131
9' x 2" Pipe Mount	180	Platform Mount [LP 601-1]	124
9' x 2" Pipe Mount	180	Transition Ladder	124
9' x 2" Pipe Mount	180	APXVTM14-ALU-I20 w/ Mount Pipe	124
Platform Mount [LP 303-1]	170	APXVTM14-ALU-I20 w/ Mount Pipe	124
(2) APX16DWV-16DWV-S-E-A20 w/ Mount Pipe	170	APXVTM14-ALU-I20 w/ Mount Pipe	124
		APXVSPP18-C-A20 w/ Mount Pipe	124
APX16DWV-16DWV-S-E-A20 w/ Mount Pipe	170	APXVSPP18-C-A20 w/ Mount Pipe	124
		APXVSPP18-C-A20 w/ Mount Pipe	124
LNX-6515DS-A1M w/ Mount Pipe	170	TD-RRH8x20-25	124
(2) LNX-6515DS-A1M w/ Mount Pipe	170	TD-RRH8x20-25	124
(2) RRUS 11 B2	170	TD-RRH8x20-25	124
RRUS 11 B2	170	800MHZ RRH	124
RRUS 11 B2	170	800MHZ RRH	124
(2) RRUS 11 B4	170	800MHZ RRH	124
RRUS 11 B4	170	(2) 6' x 2" Mount Pipe	124
RRUS 11 B4	170	(2) 6' x 2" Mount Pipe	124
(2) RRUS 11 B12	170	(2) 6' x 2" Mount Pipe	124
RRUS 11 B12	170	Side Arm Mount [SO 701-3]	124
RRUS 11 B12	170	Platform Mount [LP 601-1]	120
Fastback Networks - IBR 1300_CCIV2	170	100-1	120
APX16DWV-16DWV-S-E-A20 w/ Mount Pipe	170	(2) 8'x2" Antenna Mount Pipe	120
		(2) 8'x2" Antenna Mount Pipe	120
LNX-6515DS-A1M w/ Mount Pipe	170	(2) 8'x2" Antenna Mount Pipe	120
8'x2" Antenna Mount Pipe	170	Transition Ladder	120
8'x2" Antenna Mount Pipe	170	(2) Side Arm Mount [SO 301-1]	120
8'x2" Antenna Mount Pipe	170	Pipe Mount [PM 601-1]	80
Platform Mount [LP 601-1]	160	Pipe Mount [PM 601-1]	80
Transition Ladder	160	GPS_A	63
(2) LPA-80080-6CF-EDIN w/ Mount Pipe	160	Side Arm Mount [SO 701-1]	63
(2) LPA-80080-6CF-EDIN w/ Mount Pipe	160		

MATERIAL STRENGTH

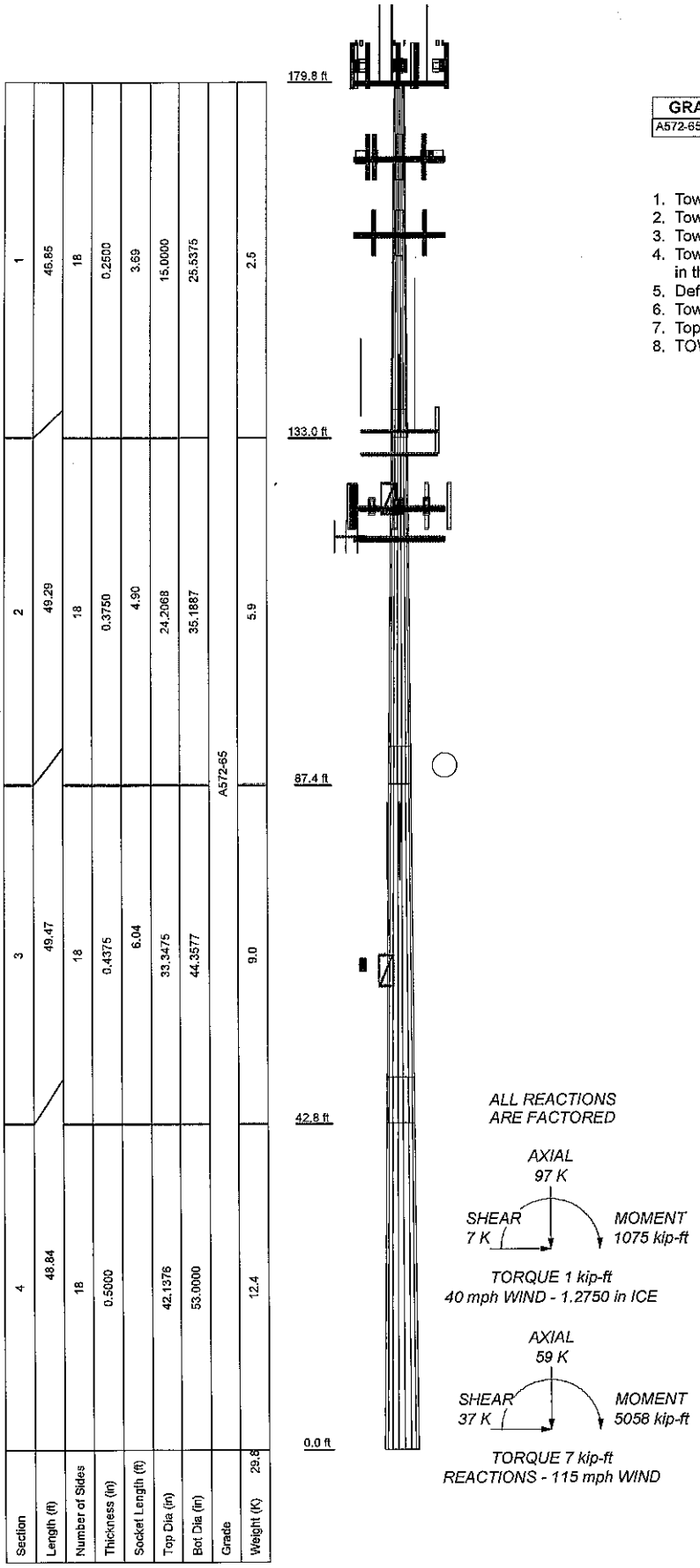
GRADE	Fy	Fu	GRADE	Fy	Fu
A572-65	65 ksi	80 ksi			

TOWER DESIGN NOTES

1. Tower is located in Litchfield County, Connecticut.
2. Tower designed for Exposure C to the TIA-222-H Standard.
3. Tower designed for a 115 mph basic wind in accordance with the TIA-222-H Standard.
4. Tower is also designed for a 40 mph basic wind with 1.27 in ice. Ice is considered to increase in thickness with height.
5. Deflections are based upon a 60 mph wind.
6. Tower Risk Category II.
7. Topographic Category 1 with Crest Height of 0.00 ft
8. TOWER RATING: 86.9%

Destek Engineering, LLC
1281 Kennestone Circle, Suite 100
Marietta, GA 30066
Phone: (770) 693-0835
FAX:

Job: *841293 - KENT-BULLS BRIDGE ROAD*			
Project: *1802051*			
Client: Crown Castle	Drawn by: Ahmet Colakoglu	App'd:	
Code: TIA-222-H	Date: 08/27/18	Scale: NT	
Path:		Dwg No. E-	



Section	1	2	3	4
Length (ft)	46.65	49.29	49.47	48.84
Number of Sides	18	18	18	18
Thickness (in)	0.2500	0.3750	0.4375	0.5000
Socket Length (ft)	3.69	4.90	6.04	
Top Dia (in)	15.0000	24.2068	33.3475	42.1376
Bot Dia (in)	25.5375	35.1887	44.3577	53.0000
Grade	A572-65			
Weight (K)	2.5	5.9	9.0	12.4

Total Weight: 29.8

MATERIAL STRENGTH

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

TOWER DESIGN NOTES

1. Tower is located in Litchfield County, Connecticut.
2. Tower designed for Exposure C to the TIA-222-H Standard.
3. Tower designed for a 115 mph basic wind in accordance with the TIA-222-H Standard.
4. Tower is also designed for a 40 mph basic wind with 1.27 in ice. Ice is considered to increase in thickness with height.
5. Deflections are based upon a 60 mph wind.
6. Tower Risk Category II.
7. Topographic Category 1 with Crest Height of 0.00 ft
8. TOWER RATING: 86.9%

Destek Engineering, LLC
1281 Kennestone Circle, Suite 100
Marietta, GA 30066
Phone: (770) 693-0835
FAX:

Job: *841293 - KENT-BULLS BRIDGE ROAD*			
Project: *1802051*			
Client: Crown Castle	Drawn by: Ahmet Colakoglu	App'd:	
Code: TIA-222-H	Date: 08/27/18	Scale: NTS	
Path:		Dwg No. E-	

Tower Input Data

The tower is a monopole.
This tower is designed using the TIA-222-H standard.
The following design criteria apply:

1) Tower is located in Litchfield County, Connecticut.
2) Tower base elevation above sea level: 781.00 ft.
3) Basic wind speed of 115 mph.
4) Risk Category II.
5) Exposure Category C.
6) Simplified Topographic Factor Procedure for wind speed-up calculations is used.
7) Topographic Category: 1.
8) Crest Height 0.00 ft.
9) Nominal ice thickness of 1.2750 in.
10) Ice thickness is considered to increase with height.
11) Ice density of 56 pcf.
12) A wind speed of 40 mph is used in combination with ice.
13) Temperature drop of 50 °F.
14) Deflections calculated using a wind speed of 60 mph.
15) A non-linear (P-delta) analysis was used.
16) Pressures are calculated at each section.
17) Stress ratio used in pole design is 1.05.
18) Local bending stresses due to climbing loads, feed line supports, and appurtenance mounts are not considered.

Options

Consider Moments - Legs	Distribute Leg Loads As Uniform	Use ASCE 10 X-Brace Ly Rules
Consider Moments - Horizontals	Assume Legs Pinned	Calculate Redundant Bracing Forces
Consider Moments - Diagonals	√ Assume Rigid Index Plate	Ignore Redundant Members in FEA
Use Moment Magnification	√ Use Clear Spans For Wind Area	SR Leg Bolts Resist Compression
Use Code Stress Ratios	Use Clear Spans For KL/r	All Leg Panels Have Same Allowable
Use Code Safety Factors - Guys	Retension Guys To Initial Tension	Offset Girt At Foundation
Escalate Ice	√ Bypass Mast Stability Checks	√ Consider Feed Line Torque
Always Use Max Kz	√ Use Azimuth Dish Coefficients	Include Angle Block Shear Check
Use Special Wind Profile	√ Project Wind Area of Appurt.	Use TIA-222-H Bracing Resist. Exemption
Include Bolts In Member Capacity	Autocalc Torque Arm Areas	Use TIA-222-H Tension Splice Exemption
Leg Bolts Are At Top Of Section	Add IBC .6D+W Combination	**Poles**
Secondary Horizontal Braces Leg	Sort Capacity Reports By Component	√ Include Shear-Torsion Interaction
Use Diamond Inner Bracing (4 Sided)	Triangulate Diamond Inner Bracing	Always Use Sub-Critical Flow
SR Members Have Cut Ends	Treat Feed Line Bundles As Cylinder	Use Top Mounted Sockets
SR Members Are Concentric	Ignore KL/ry For 60 Deg. Angle Legs	Pole Without Linear Attachments
		Pole With Shroud Or No Appurtenances
		Outside and Inside Corner Radii Are Known

Tapered Pole Section Geometry

Section	Elevation ft	Section Length ft	Splice Length ft	Number of Sides	Top Diameter in	Bottom Diameter in	Wall Thickness in	Bend Radius in	Pole Grade
L1	179.81-132.97	46.85	3.69	18	15.0000	25.5375	0.2500	1.0000	A572-65 (65 ksi)
L2	132.97-87.37	49.29	4.90	18	24.2068	35.1887	0.3750	1.5000	A572-65 (65 ksi)
L3	87.37-42.79	49.47	6.04	18	33.3475	44.3577	0.4375	1.7500	A572-65

Section	Elevation ft	Section Length ft	Splice Length ft	Number of Sides	Top Diameter in	Bottom Diameter in	Wall Thickness in	Bend Radius in	Pole Grade
L4	42.79-0.00	48.84		18	42.1376	53.0000	0.5000	2.0000	(65 ksi) A572-65 (65 ksi)

Tapered Pole Properties

Section	Tip Dia. in	Area in^2	I in^4	r in	C in	I/C in^3	J in^4	It/Q in^2	w in	w/ft
L1	15.1928	11.7041	321.7069	5.2363	7.6200	42.2188	643.8372	5.8532	2.2000	8.8
	25.8929	20.0656	1621.0711	8.9771	12.9731	124.9568	3244.2753	10.0347	4.0546	16.218
L2	25.3578	28.3658	2035.3844	8.4603	12.2971	165.5180	4073.4471	14.1856	3.6004	9.601
	35.6737	41.4370	6344.9205	12.3589	17.8759	354.9435	12698.1899	20.7224	5.5332	14.755
L3	34.9014	45.6997	6253.2575	11.6831	16.9405	369.1299	12514.7431	22.8542	5.0992	11.655
	44.9745	60.9887	14863.3039	15.5917	22.5337	659.6030	29746.1653	30.5001	7.0370	16.084
L4	44.0755	66.0788	14473.3835	14.7813	21.4059	676.1406	28965.8115	33.0457	6.5362	13.072
	53.7405	83.3175	29012.9766	18.6375	26.9240	1077.5879	58064.1291	41.6667	8.4480	16.896

Tower Elevation ft	Gusset Area (per face) ft^2	Gusset Thickness in	Gusset Grade	Adjust. Factor A_f	Adjust. Factor A_r	Weight Mult.	Double Angle Stitch Bolt Spacing Diagonals in	Double Angle Stitch Bolt Spacing Horizontals in	Double Angle Stitch Bolt Spacing Redundants in
L1 179.81-132.97				1	1	1			
L2 132.97-87.37				1	1	1			
L3 87.37-42.79				1	1	1			
L4 42.79-0.00				1	1	1			

Feed Line/Linear Appurtenances - Entered As Round Or Flat

Description	Sector	Exclude From Torque Calculation	Component Type	Placement ft	Total Number	Number Per Row	Start/End Position	Width or Diameter in	Perimeter in	Weight plf
170ft T Mobile MLE HYBRID 9POWER/18FIBER RL 2(1-5/8)	B	No	Surface Ar (CaAa)	170.00 - 8.00	3	3	0.000 0.100	1.6250		1.07
OSP6U(1/4)	B	No	Surface Ar (CaAa)	170.00 - 8.00	3	3	-0.050 0.000	0.2510		0.03
**160ft Verizon Wireless* HFT1208-24S26(1-1/4)	A	No	Surface Ar (CaAa)	160.00 - 8.00	2	2	0.000 0.100	1.3000		1.17
HB158-1-08U8-S8F18(1-5/8)	A	No	Surface Ar (CaAa)	160.00 - 8.00	5	5	-0.250 0.250	1.9800		1.70
LDF7-50A(1-5/8)	A	No	Surface Ar (CaAa)	179.81 - 160.00	3	3	-0.250 0.000	1.9800		0.82

Feed Line/Linear Appurtenances - Entered As Area

Description	Face or Leg	Allow Shield	Exclude From Torque Calculation	Component Type	Placement ft	Total Number		C_AA_A ft^2/ft	Weight plf
134ft Connecticut State Police									
AVA7-50(1-5/8)	B	No	No	Inside Pole	134.00 - 8.00	2	No Ice	0.00	0.70
							1/2" Ice	0.00	0.70
							1" Ice	0.00	0.70
							2" Ice	0.00	0.70
LDF4-50A(1/2)	B	No	No	Inside Pole	134.00 - 8.00	2	No Ice	0.00	0.15
							1/2" Ice	0.00	0.15
							1" Ice	0.00	0.15
							2" Ice	0.00	0.15
LDF7-50A(1-5/8)	B	No	No	Inside Pole	134.00 - 8.00	4	No Ice	0.00	0.82
							1/2" Ice	0.00	0.82
							1" Ice	0.00	0.82
							2" Ice	0.00	0.82
124ft Sprint PCS									
HB114-1-08U4-M5J(1-1/4)	C	No	No	Inside Pole	124.00 - 8.00	3	No Ice	0.00	1.08
							1/2" Ice	0.00	1.08
							1" Ice	0.00	1.08
							2" Ice	0.00	1.08
HB114-21U3M12-XXXF(1-1/4)	C	No	No	Inside Pole	124.00 - 8.00	1	No Ice	0.00	1.22
							1/2" Ice	0.00	1.22
							1" Ice	0.00	1.22
							2" Ice	0.00	1.22
63ft Sprint PCS									
LDF4-50A(1/2)	C	No	No	Inside Pole	63.00 - 8.00	1	No Ice	0.00	0.15
							1/2" Ice	0.00	0.15
							1" Ice	0.00	0.15
							2" Ice	0.00	0.15
LDF7-50A(1-5/8)	C	No	No	Inside Pole	160.00 - 8.00	10	No Ice	0.00	0.82
							1/2" Ice	0.00	0.82
							1" Ice	0.00	0.82
							2" Ice	0.00	0.82
**120ft WMNR Fine Arts Radio*									
LDF5-50A(7/8)	A	No	No	Inside Pole	120.00 - 8.00	1	No Ice	0.00	0.33
							1/2" Ice	0.00	0.33
							1" Ice	0.00	0.33
							2" Ice	0.00	0.33
**180ft AT&T Mobility*									
LDF4-50A(1/2)	A	No	No	Inside Pole	179.81 - 0.00	1	No Ice	0.00	0.15
							1/2" Ice	0.00	0.15
							1" Ice	0.00	0.15
							2" Ice	0.00	0.15
LDF5-50A(7/8)	A	No	No	Inside Pole	179.81 - 0.00	2	No Ice	0.00	0.33
							1/2" Ice	0.00	0.33
							1" Ice	0.00	0.33
							2" Ice	0.00	0.33
LDF7-50A(1-5/8)	A	No	No	Inside Pole	179.81 - 0.00	12	No Ice	0.00	0.82
							1/2" Ice	0.00	0.82
							1" Ice	0.00	0.82
							2" Ice	0.00	0.82

Feed Line/Linear Appurtenances Section Areas

Tower Section	Tower Elevation ft	Face	A_R ft^2	A_F ft^2	C_AA_A In Face ft^2	C_AA_A Out Face ft^2	Weight K
L1	179.81-132.97	A	0.000	0.000	45.561	0.000	0.84
		B	0.000	0.000	20.843	0.000	0.13

Tower Section	Tower Elevation ft	Face	A_R ft^2	A_F ft^2	C_AA_A In Face ft^2	C_AA_A Out Face ft^2	Weight K
		C	0.000	0.000	0.000	0.000	0.22
L2	132.97-87.37	A	0.000	0.000	57.001	0.000	0.99
		B	0.000	0.000	25.664	0.000	0.38
		C	0.000	0.000	0.000	0.000	0.54
L3	87.37-42.79	A	0.000	0.000	55.716	0.000	0.97
		B	0.000	0.000	25.086	0.000	0.37
		C	0.000	0.000	0.000	0.000	0.57
L4	42.79-0.00	A	0.000	0.000	43.490	0.000	0.84
		B	0.000	0.000	19.581	0.000	0.29
		C	0.000	0.000	0.000	0.000	0.45

Feed Line/Linear Appurtenances Section Areas - With Ice

Tower Section	Tower Elevation ft	Face or Leg	Ice Thickness in	A_R ft^2	A_F ft^2	C_AA_A In Face ft^2	C_AA_A Out Face ft^2	Weight K
L1	179.81-132.97	A	1.488	0.000	0.000	84.432	0.000	1.70
		B		0.000	0.000	53.604	0.000	0.63
		C		0.000	0.000	0.000	0.000	0.22
L2	132.97-87.37	A	1.437	0.000	0.000	105.176	0.000	2.06
		B		0.000	0.000	66.004	0.000	1.00
		C		0.000	0.000	0.000	0.000	0.54
L3	87.37-42.79	A	1.363	0.000	0.000	101.671	0.000	1.98
		B		0.000	0.000	63.382	0.000	0.95
		C		0.000	0.000	0.000	0.000	0.57
L4	42.79-0.00	A	1.222	0.000	0.000	78.082	0.000	1.58
		B		0.000	0.000	48.195	0.000	0.71
		C		0.000	0.000	0.000	0.000	0.45

Feed Line Center of Pressure

Section	Elevation ft	CP_X in	CP_Z in	CP_X Ice in	CP_Z Ice in
L1	179.81-132.97	-1.9653	-2.7455	-0.9426	-2.2095
L2	132.97-87.37	-2.4622	-3.8458	-1.1976	-3.1977
L3	87.37-42.79	-2.7417	-4.2973	-1.4093	-3.7432
L4	42.79-0.00	-2.5320	-3.9763	-1.4080	-3.6778

Note: For pole sections, center of pressure calculations do not consider feed line shielding.

Shielding Factor Ka

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K_a No Ice	K_a Ice
L1	6	MLE HYBRID 9POWER/18FIBER RL 2(1-5/8)	132.97 - 170.00	1.0000	1.0000
L1	7	OSP6U(1/4)	132.97 - 170.00	1.0000	1.0000
L1	14	HFT1208-24S26(1-1/4)	132.97 - 160.00	1.0000	1.0000
L1	15	HB158-1-08U8-S8F18(1-5/8)	132.97 - 160.00	1.0000	1.0000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K_a No Ice	K_a Ice
L1	23	LDF7-50A(1-5/8)	160.00 - 179.81	1.0000	1.0000
L2	6	MLE HYBRID 9POWER/18FIBER RL 2(1-5/8)	87.37 - 132.97	1.0000	1.0000
L2	7	OSP6U(1/4)	87.37 - 132.97	1.0000	1.0000
L2	14	HFT1208-24S26(1-1/4)	87.37 - 132.97	1.0000	1.0000
L2	15	HB158-1-08U8-S8F18(1-5/8)	87.37 - 132.97	1.0000	1.0000
L3	6	MLE HYBRID 9POWER/18FIBER RL 2(1-5/8)	42.79 - 87.37	1.0000	1.0000
L3	7	OSP6U(1/4)	42.79 - 87.37	1.0000	1.0000
L3	14	HFT1208-24S26(1-1/4)	42.79 - 87.37	1.0000	1.0000
L3	15	HB158-1-08U8-S8F18(1-5/8)	42.79 - 87.37	1.0000	1.0000

Discrete Tower Loads

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment °	Placement ft		C_AA_A Front ft^2	C_AA_A Side ft^2	Weight K
**AT&T Mobility* Platform Mount [LP 601-1]	B	None		0.0000	180.00	No Ice	28.47	28.47	1.12
						1/2" Ice	33.59	33.59	1.51
						1" Ice	38.71	38.71	1.91
						2" Ice	48.95	48.95	2.69
Transition Ladder	A	From Leg	2.00 0.00 -4.00	0.0000	180.00	No Ice	6.00	6.00	0.16
						1/2" Ice	8.00	8.00	0.24
						1" Ice	10.00	10.00	0.32
						2" Ice	14.00	14.00	0.48
7770.00 w/ Mount Pipe	A	From Leg	3.00 -6.00 2.00	0.0000	180.00	No Ice	5.75	4.25	0.06
						1/2" Ice	6.18	5.01	0.10
						1" Ice	6.61	5.71	0.16
						2" Ice	7.49	7.16	0.29
7770.00 w/ Mount Pipe	B	From Leg	3.00 -6.00 2.00	0.0000	180.00	No Ice	5.75	4.25	0.06
						1/2" Ice	6.18	5.01	0.10
						1" Ice	6.61	5.71	0.16
						2" Ice	7.49	7.16	0.29
7770.00 w/ Mount Pipe	C	From Leg	3.00 -6.00 2.00	0.0000	180.00	No Ice	5.75	4.25	0.06
						1/2" Ice	6.18	5.01	0.10
						1" Ice	6.61	5.71	0.16
						2" Ice	7.49	7.16	0.29
ASP-952	A	From Leg	3.00 -1.00 5.00	0.0000	180.00	No Ice	3.02	3.02	0.02
						1/2" Ice	4.16	4.16	0.04
						1" Ice	5.30	5.30	0.07
						2" Ice	6.96	6.96	0.15
ASP-952	B	From Leg	3.00 -1.00	0.0000	180.00	No Ice	3.02 4.16	3.02 4.16	0.02 0.04

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment °	Placement ft		C_AA_A Front ft²	C_AA_A Side ft²	Weight K
			5.00			1/2" Ice 1" Ice 2" Ice	5.30 6.96	5.30 6.96	0.07 0.15
ASP-952	C	From Leg	3.00 -1.00 5.00	0.0000	180.00	No Ice 1/2" Ice 1" Ice 2" Ice	3.02 4.16 5.30 6.96	3.02 4.16 5.30 6.96	0.02 0.04 0.07 0.15
AM-X-CD-16-65-00T-RET w/ Mount Pipe	A	From Leg	3.00 2.00 2.00	0.0000	180.00	No Ice 1/2" Ice 1" Ice 2" Ice	8.26 8.82 9.35 10.42	6.30 7.48 8.37 10.18	0.07 0.14 0.21 0.38
AM-X-CD-16-65-00T-RET w/ Mount Pipe	B	From Leg	3.00 2.00 2.00	0.0000	180.00	No Ice 1/2" Ice 1" Ice 2" Ice	8.26 8.82 9.35 10.42	6.30 7.48 8.37 10.18	0.07 0.14 0.21 0.38
AM-X-CD-14-65-00T-RET w/ Mount Pipe	C	From Leg	3.00 2.00 2.00	0.0000	180.00	No Ice 1/2" Ice 1" Ice 2" Ice	5.23 5.62 6.01 6.83	4.02 4.63 5.26 6.53	0.05 0.10 0.15 0.27
7770.00 w/ Mount Pipe	C	From Leg	3.00 6.00 2.00	0.0000	180.00	No Ice 1/2" Ice 1" Ice 2" Ice	5.75 6.18 6.61 7.49	4.25 5.01 5.71 7.16	0.06 0.10 0.16 0.29
7770.00 w/ Mount Pipe	C	From Leg	3.00 6.00 2.00	0.0000	180.00	No Ice 1/2" Ice 1" Ice 2" Ice	5.75 6.18 6.61 7.49	4.25 5.01 5.71 7.16	0.06 0.10 0.16 0.29
7770.00 w/ Mount Pipe	C	From Leg	3.00 6.00 2.00	0.0000	180.00	No Ice 1/2" Ice 1" Ice 2" Ice	5.75 6.18 6.61 7.49	4.25 5.01 5.71 7.16	0.06 0.10 0.16 0.29
(2) LGP13519	A	From Leg	3.00 0.00 5.00	0.0000	180.00	No Ice 1/2" Ice 1" Ice 2" Ice	0.29 0.36 0.44 0.62	0.18 0.24 0.31 0.47	0.01 0.01 0.01 0.02
(2) LGP13519	B	From Leg	3.00 0.00 5.00	0.0000	180.00	No Ice 1/2" Ice 1" Ice 2" Ice	0.29 0.36 0.44 0.62	0.18 0.24 0.31 0.47	0.01 0.01 0.01 0.02
(2) LGP13519	C	From Leg	3.00 0.00 5.00	0.0000	180.00	No Ice 1/2" Ice 1" Ice 2" Ice	0.29 0.36 0.44 0.62	0.18 0.24 0.31 0.47	0.01 0.01 0.01 0.02
(2) LGP21401	A	From Leg	3.00 0.00 2.00	0.0000	180.00	No Ice 1/2" Ice 1" Ice 2" Ice	1.10 1.24 1.38 1.69	0.21 0.27 0.35 0.52	0.01 0.02 0.03 0.05
(2) LGP21401	B	From Leg	3.00 0.00 2.00	0.0000	180.00	No Ice 1/2" Ice 1" Ice 2" Ice	1.10 1.24 1.38 1.69	0.21 0.27 0.35 0.52	0.01 0.02 0.03 0.05
(2) LGP21401	C	From Leg	3.00	0.0000	180.00	No Ice	1.10	0.21	0.01

Description	Face or Leg	Offset Type	Offsets: Horz Lateral ft	Vert ft	Azimuth Adjustment °	Placement ft		C_AA_A Front ft^2	C_AA_A Side ft^2	Weight K
			0.00				1/2"	1.24	0.27	0.02
			2.00				Ice	1.38	0.35	0.03
							1" Ice	1.69	0.52	0.05
							2" Ice			
(2) RRUS 11	A	From Leg	3.00		0.0000	180.00	No Ice	2.78	1.19	0.05
			0.00				1/2"	2.99	1.33	0.07
			2.00				Ice	3.21	1.49	0.10
							1" Ice	3.66	1.83	0.15
							2" Ice			
(2) RRUS 11	B	From Leg	3.00		0.0000	180.00	No Ice	2.78	1.19	0.05
			0.00				1/2"	2.99	1.33	0.07
			2.00				Ice	3.21	1.49	0.10
							1" Ice	3.66	1.83	0.15
							2" Ice			
(2) RRUS 11	C	From Leg	3.00		0.0000	180.00	No Ice	2.78	1.19	0.05
			0.00				1/2"	2.99	1.33	0.07
			2.00				Ice	3.21	1.49	0.10
							1" Ice	3.66	1.83	0.15
							2" Ice			
DC6-48-60-18-8F	A	From Leg	1.00		0.0000	180.00	No Ice	0.79	0.79	0.02
			0.00				1/2"	1.27	1.27	0.03
			2.00				Ice	1.45	1.45	0.05
							1" Ice	1.83	1.83	0.09
							2" Ice			
9' x 2" Pipe Mount	A	From Leg	3.00		0.0000	180.00	No Ice	2.14	2.14	0.07
			-1.00				1/2"	3.07	3.07	0.08
			0.00				Ice	4.01	4.01	0.10
							1" Ice	5.13	5.13	0.17
							2" Ice			
9' x 2" Pipe Mount	B	From Leg	3.00		0.0000	180.00	No Ice	2.14	2.14	0.07
			-1.00				1/2"	3.07	3.07	0.08
			0.00				Ice	4.01	4.01	0.10
							1" Ice	5.13	5.13	0.17
							2" Ice			
9' x 2" Pipe Mount	C	From Leg	3.00		0.0000	180.00	No Ice	2.14	2.14	0.07
			-1.00				1/2"	3.07	3.07	0.08
			0.00				Ice	4.01	4.01	0.10
							1" Ice	5.13	5.13	0.17
							2" Ice			
**170ft T-Mobile* Platform Mount [LP 303-1]	B	None			0.0000	170.00	No Ice	14.66	14.66	1.25
							1/2"	18.87	18.87	1.48
							Ice	23.08	23.08	1.71
							1" Ice	31.50	31.50	2.18
							2" Ice			
(2) APX16DWV-16DWV-S-E-A20 w/ Mount Pipe	A	From Leg	3.00		0.0000	170.00	No Ice	6.82	3.49	0.06
			0.00				1/2"	7.28	4.26	0.11
			0.00				Ice	7.72	4.96	0.16
							1" Ice	8.63	6.40	0.30
							2" Ice			
APX16DWV-16DWV-S-E-A20 w/ Mount Pipe	B	From Leg	3.00		0.0000	170.00	No Ice	6.82	3.49	0.06
			0.00				1/2"	7.28	4.26	0.11
			0.00				Ice	7.72	4.96	0.16
							1" Ice	8.63	6.40	0.30
							2" Ice			
LNX-6515DS-A1M w/ Mount Pipe	A	From Leg	3.00		0.0000	170.00	No Ice	11.68	9.84	0.08
			0.00				1/2"	12.40	11.37	0.17
			0.00				Ice	13.14	12.91	0.27
							1" Ice	14.51	15.27	0.51
							2" Ice			
(2) LNX-6515DS-A1M w/ Mount Pipe	B	From Leg	3.00		0.0000	170.00	No Ice	11.68	9.84	0.08
			0.00				1/2"	12.40	11.37	0.17
			0.00				Ice	13.14	12.91	0.27
							1" Ice	14.51	15.27	0.51
							2" Ice			

Description	Face or Leg	Offset Type	Offsets: Horz Lateral ft	Vert ft	Azimuth Adjustment °	Placement ft		C_AA_A Front ft^2	C_AA_A Side ft^2	Weight K
(2) RRUS 11 B2	A	From Leg	3.00	0.0000	170.00		No Ice	2.83	1.18	0.05
			0.00				1/2" Ice	3.04	1.33	0.07
			0.00				1" Ice	3.26	1.48	0.10
							2" Ice	3.71	1.83	0.15
RRUS 11 B2	B	From Leg	3.00	0.0000	170.00		No Ice	2.83	1.18	0.05
			0.00				1/2" Ice	3.04	1.33	0.07
			0.00				1" Ice	3.26	1.48	0.10
							2" Ice	3.71	1.83	0.15
RRUS 11 B2	C	From Leg	3.00	0.0000	170.00		No Ice	2.83	1.18	0.05
			0.00				1/2" Ice	3.04	1.33	0.07
			0.00				1" Ice	3.26	1.48	0.10
							2" Ice	3.71	1.83	0.15
(2) RRUS 11 B4	A	From Leg	3.00	0.0000	170.00		No Ice	2.83	1.18	0.05
			0.00				1/2" Ice	3.04	1.33	0.07
			0.00				1" Ice	3.26	1.48	0.10
							2" Ice	3.71	1.83	0.15
RRUS 11 B4	B	From Leg	3.00	0.0000	170.00		No Ice	2.83	1.18	0.05
			0.00				1/2" Ice	3.04	1.33	0.07
			0.00				1" Ice	3.26	1.48	0.10
							2" Ice	3.71	1.83	0.15
RRUS 11 B4	C	From Leg	3.00	0.0000	170.00		No Ice	2.83	1.18	0.05
			0.00				1/2" Ice	3.04	1.33	0.07
			0.00				1" Ice	3.26	1.48	0.10
							2" Ice	3.71	1.83	0.15
(2) RRUS 11 B12	A	From Leg	3.00	0.0000	170.00		No Ice	2.83	1.18	0.05
			0.00				1/2" Ice	3.04	1.33	0.07
			0.00				1" Ice	3.26	1.48	0.10
							2" Ice	3.71	1.83	0.15
RRUS 11 B12	B	From Leg	4.00	0.0000	170.00		No Ice	2.83	1.18	0.05
			0.00				1/2" Ice	3.04	1.33	0.07
			0.00				1" Ice	3.26	1.48	0.10
							2" Ice	3.71	1.83	0.15
RRUS 11 B12	C	From Leg	3.00	0.0000	170.00		No Ice	2.83	1.18	0.05
			0.00				1/2" Ice	3.04	1.33	0.07
			0.00				1" Ice	3.26	1.48	0.10
							2" Ice	3.71	1.83	0.15
Fastback Networks - IBR 1300_CCIV2	A	From Leg	4.00	0.0000	170.00		No Ice	0.67	0.31	0.01
			0.00				1/2" Ice	0.78	0.38	0.01
			0.00				1" Ice	0.89	0.47	0.02
							2" Ice	1.13	0.67	0.04
APX16DWV-16DWV-S-E-A20 w/ Mount Pipe	C	From Leg	3.00	0.0000	170.00		No Ice	6.82	3.49	0.06
			0.00				1/2" Ice	7.28	4.26	0.11
			0.00				1" Ice	7.72	4.96	0.16
							2" Ice	8.63	6.40	0.30
LNX-6515DS-A1M w/ Mount Pipe	C	From Leg	4.00	0.0000	170.00		No Ice	11.68	9.84	0.08
			0.00				1/2" Ice	12.40	11.37	0.17
			0.00				1" Ice	13.14	12.91	0.27
							2" Ice	14.51	15.27	0.51
8'x2" Antenna Mount Pipe	A	From Leg	3.00	0.0000	170.00		No Ice	1.90	1.90	0.03
			0.00				1/2" Ice	2.73	2.73	0.04
			0.00				1" Ice	3.40	3.40	0.06
							2" Ice	4.40	4.40	0.12

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment °	Placement ft		C_AA_A Front ft^2	C_AA_A Side ft^2	Weight K
8'x2" Antenna Mount Pipe	B	From Leg	3.00 0.00 0.00	0.0000	170.00	No Ice 1/2" Ice 1" Ice 2" Ice	1.90 2.73 3.40 4.40	1.90 2.73 3.40 4.40	0.03 0.04 0.06 0.12
8'x2" Antenna Mount Pipe	C	From Leg	3.00 0.00 0.00	0.0000	170.00	No Ice 1/2" Ice 1" Ice 2" Ice	1.90 2.73 3.40 4.40	1.90 2.73 3.40 4.40	0.03 0.04 0.06 0.12
160ft Verizon Wireless Platform Mount [LP 601-1]	B	None		0.0000	160.00	No Ice 1/2" Ice 1" Ice 2" Ice	28.47 33.59 38.71 48.95	28.47 33.59 38.71 48.95	1.12 1.51 1.91 2.69
Transition Ladder	A	From Leg	2.00 0.00 -4.00	0.0000	160.00	No Ice 1/2" Ice 1" Ice 2" Ice	6.00 8.00 10.00 14.00	6.00 8.00 10.00 14.00	0.16 0.24 0.32 0.48
(2) LPA-80080-6CF-EDIN w/ Mount Pipe	A	From Leg	3.00 0.00 0.00	0.0000	160.00	No Ice 1/2" Ice 1" Ice 2" Ice	4.56 5.11 5.61 6.65	10.64 11.81 12.70 14.52	0.05 0.11 0.19 0.37
(2) LPA-80080-6CF-EDIN w/ Mount Pipe	B	From Leg	3.00 0.00 0.00	0.0000	160.00	No Ice 1/2" Ice 1" Ice 2" Ice	4.56 5.11 5.61 6.65	10.64 11.81 12.70 14.52	0.05 0.11 0.19 0.37
(2) LPA-80080-6CF-EDIN w/ Mount Pipe	C	From Leg	3.00 0.00 0.00	0.0000	160.00	No Ice 1/2" Ice 1" Ice 2" Ice	4.56 5.11 5.61 6.65	10.64 11.81 12.70 14.52	0.05 0.11 0.19 0.37
(2) NHH-65B-R2B w/ Mount Pipe	A	From Leg	4.00 0.00 0.00	0.0000	160.00	No Ice 1/2" Ice 1" Ice 2" Ice	8.32 8.88 9.40 10.47	7.00 8.19 9.08 10.90	0.07 0.14 0.21 0.39
(2) NHH-65B-R2B w/ Mount Pipe	B	From Leg	4.00 0.00 0.00	0.0000	160.00	No Ice 1/2" Ice 1" Ice 2" Ice	8.32 8.88 9.40 10.47	7.00 8.19 9.08 10.90	0.07 0.14 0.21 0.39
(2) NHH-65B-R2B w/ Mount Pipe	C	From Leg	4.00 0.00 0.00	0.0000	160.00	No Ice 1/2" Ice 1" Ice 2" Ice	8.32 8.88 9.40 10.47	7.00 8.19 9.08 10.90	0.07 0.14 0.21 0.39
(2) RFV01U-D1A	C	From Leg	4.00 0.00 0.00	0.0000	160.00	No Ice 1/2" Ice 1" Ice 2" Ice	1.88 2.05 2.22 2.60	1.25 1.39 1.54 1.86	0.08 0.10 0.12 0.18
(2) RFV01U-D2A	A	From Leg	4.00 0.00 0.00	0.0000	160.00	No Ice 1/2" Ice 1" Ice 2" Ice	1.88 2.05 2.22 2.60	1.01 1.14 1.28 1.59	0.07 0.09 0.11 0.15
RFV01U-D1A	B	From Leg	4.00 0.00 0.00	0.0000	160.00	No Ice 1/2" Ice 1" Ice	1.88 2.05 2.22 2.60	1.25 1.39 1.54 1.86	0.08 0.10 0.12 0.18

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment °	Placement ft		C_AA_A Front ft^2	C_AA_A Side ft^2	Weight K
						2" Ice			
RFV01U-D2A	B	From Leg	4.00 0.00 0.00	0.0000	160.00	No Ice 1/2" Ice 1" Ice 2" Ice	1.88 2.05 2.22 2.60	1.01 1.14 1.28 1.59	0.07 0.09 0.11 0.15
RVZDC-6627-PF-48	B	From Leg	4.00 0.00 0.00	0.0000	160.00	No Ice 1/2" Ice 1" Ice 2" Ice	3.79 4.04 4.30 4.84	2.51 2.73 2.95 3.42	0.03 0.06 0.10 0.18
134 Connecticut State Police (3) RMV5-2xx T-Arm Mounts [TA 702-3]	B	None		0.0000	134.00	No Ice 1/2" Ice 1" Ice 2" Ice	5.64 6.55 7.46 9.28	5.64 6.55 7.46 9.28	0.34 0.43 0.52 0.70
SC479-HF1LDF	A	From Face	3.00 -3.00 7.00	0.0000	134.00	No Ice 1/2" Ice 1" Ice 2" Ice	5.03 6.51 8.00 10.73	5.03 6.51 8.00 10.73	0.03 0.07 0.11 0.23
SC442D-HF2LDF	A	From Face	3.00 3.00 10.00	0.0000	134.00	No Ice 1/2" Ice 1" Ice 2" Ice	7.20 12.20 14.29 18.52	7.20 12.20 14.29 18.52	0.08 0.15 0.23 0.43
SC442D-HF2LDF	B	From Face	3.00 -3.00 10.00	0.0000	134.00	No Ice 1/2" Ice 1" Ice 2" Ice	7.20 12.20 14.29 18.52	7.20 12.20 14.29 18.52	0.08 0.15 0.23 0.43
WPA-700102-4CF-EDIN-9 w/ Mount Pipe	B	From Face	3.00 3.00 0.00	0.0000	134.00	No Ice 1/2" Ice 1" Ice 2" Ice	3.81 4.17 4.54 5.31	3.97 4.58 5.19 6.46	0.03 0.07 0.11 0.22
(2) DB809DK-Y	C	From Face	3.00 0.00 5.00	0.0000	134.00	No Ice 1/2" Ice 1" Ice 2" Ice	3.39 4.55 5.73 7.38	3.39 4.55 5.73 7.38	0.03 0.06 0.09 0.18
432E-83I-01-T	A	From Face	3.00 0.00 7.00	0.0000	134.00	No Ice 1/2" Ice 1" Ice 2" Ice	1.20 1.34 1.48 1.79	0.75 0.86 0.98 1.24	0.03 0.04 0.05 0.09
422-86A-99575-18BW	B	From Face	3.00 0.00 0.00	0.0000	134.00	No Ice 1/2" Ice 1" Ice 2" Ice	2.96 3.17 3.39 3.86	1.20 1.35 1.51 1.86	0.05 0.07 0.09 0.15
(2) 6' x 2" Mount Pipe	A	From Face	3.00 0.00 0.00	0.0000	134.00	No Ice 1/2" Ice 1" Ice 2" Ice	1.43 1.92 2.29 3.06	1.43 1.92 2.29 3.06	0.02 0.03 0.05 0.09
6' x 2" Mount Pipe	B	From Face	3.00 0.00 0.00	0.0000	134.00	No Ice 1/2" Ice 1" Ice 2" Ice	1.43 1.92 2.29 3.06	1.43 1.92 2.29 3.06	0.02 0.03 0.05 0.09
(2) 6' x 2" Mount Pipe	C	From Face	3.00 0.00	0.0000	134.00	No Ice	1.43 1.92	1.43 1.92	0.02 0.03

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment °	Placement ft		C_AA_A Front ft^2	C_AA_A Side ft^2	Weight K
			0.00			1/2" Ice	2.29	2.29	0.05
						1" Ice	3.06	3.06	0.09
						2" Ice			
3.5' Hor 2.5x2.5 Angle	A	From Face	3.00	0.0000	131.00	No Ice	0.88	0.05	0.04
			0.00			1/2" Ice	1.13	0.08	0.05
			0.00			1" Ice	1.38	0.12	0.06
						2" Ice	1.92	0.22	0.10
3.5' Hor 2.5x2.5 Angle	B	From Face	3.00	0.0000	131.00	No Ice	0.88	0.05	0.04
			0.00			1/2" Ice	1.13	0.08	0.05
			0.00			1" Ice	1.38	0.12	0.06
						2" Ice	1.92	0.22	0.10
3.5' Hor 2.5x2.5 Angle	C	From Face	3.00	0.0000	131.00	No Ice	0.88	0.05	0.04
			0.00			1/2" Ice	1.13	0.08	0.05
			0.00			1" Ice	1.38	0.12	0.06
						2" Ice	1.92	0.22	0.10
Side Arm Mount [SO 701-3]	C	None		0.0000	131.00	No Ice	2.83	2.83	0.20
						1/2" Ice	3.92	3.92	0.24
						1" Ice	5.01	5.01	0.28
						2" Ice	7.19	7.19	0.36
124ft Sprint PCS Platform Mount [LP 601-1]	B	None		0.0000	124.00	No Ice	28.47	28.47	1.12
						1/2" Ice	33.59	33.59	1.51
						1" Ice	38.71	38.71	1.91
						2" Ice	48.95	48.95	2.69
Transition Ladder	C	From Face	2.00	0.0000	124.00	No Ice	6.00	6.00	0.16
			0.00			1/2" Ice	8.00	8.00	0.24
			-4.00			1" Ice	10.00	10.00	0.32
						2" Ice	14.00	14.00	0.48
APXVTM14-ALU-I20 w/ Mount Pipe	A	From Face	3.00	0.0000	124.00	No Ice	6.58	4.96	0.08
			-6.00			1/2" Ice	7.03	5.75	0.13
			0.00			1" Ice	7.47	6.47	0.19
						2" Ice	8.38	7.94	0.34
APXVTM14-ALU-I20 w/ Mount Pipe	B	From Face	3.00	0.0000	124.00	No Ice	6.58	4.96	0.08
			0.00			1/2" Ice	7.03	5.75	0.13
			0.00			1" Ice	7.47	6.47	0.19
						2" Ice	8.38	7.94	0.34
APXVTM14-ALU-I20 w/ Mount Pipe	C	From Face	3.00	0.0000	124.00	No Ice	6.58	4.96	0.08
			6.00			1/2" Ice	7.03	5.75	0.13
			0.00			1" Ice	7.47	6.47	0.19
						2" Ice	8.38	7.94	0.34
APXVSPP18-C-A20 w/ Mount Pipe	A	From Face	3.00	0.0000	124.00	No Ice	8.26	6.95	0.08
			6.00			1/2" Ice	8.82	8.13	0.15
			0.00			1" Ice	9.35	9.02	0.23
						2" Ice	10.42	10.84	0.41
APXVSPP18-C-A20 w/ Mount Pipe	B	From Face	3.00	0.0000	124.00	No Ice	8.26	6.95	0.08
			6.00			1/2" Ice	8.82	8.13	0.15
			0.00			1" Ice	9.35	9.02	0.23
						2" Ice	10.42	10.84	0.41
APXVSPP18-C-A20 w/ Mount Pipe	C	From Face	3.00	0.0000	124.00	No Ice	8.26	6.95	0.08
			6.00			1/2" Ice	8.82	8.13	0.15
			0.00			1" Ice	9.35	9.02	0.23
						2" Ice	10.42	10.84	0.41

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment °	Placement ft		C_AA_A Front ft^2	C_AA_A Side ft^2	Weight K
TD-RRH8x20-25	A	From Face	3.00 0.00 0.00	0.0000	124.00	No Ice 1/2" Ice 1" Ice 2" Ice	4.05 4.30 4.56 5.10	1.53 1.71 1.90 2.30	0.07 0.10 0.13 0.20
TD-RRH8x20-25	B	From Face	3.00 0.00 0.00	0.0000	124.00	No Ice 1/2" Ice 1" Ice 2" Ice	4.05 4.30 4.56 5.10	1.53 1.71 1.90 2.30	0.07 0.10 0.13 0.20
TD-RRH8x20-25	C	From Face	3.00 0.00 0.00	0.0000	124.00	No Ice 1/2" Ice 1" Ice 2" Ice	4.05 4.30 4.56 5.10	1.53 1.71 1.90 2.30	0.07 0.10 0.13 0.20
800MHZ RRH	A	From Face	3.00 0.00 0.00	0.0000	124.00	No Ice 1/2" Ice 1" Ice 2" Ice	2.13 2.32 2.51 2.92	1.77 1.95 2.13 2.51	0.05 0.07 0.10 0.16
800MHZ RRH	B	From Face	3.00 0.00 0.00	0.0000	124.00	No Ice 1/2" Ice 1" Ice 2" Ice	2.13 2.32 2.51 2.92	1.77 1.95 2.13 2.51	0.05 0.07 0.10 0.16
800MHZ RRH	C	From Face	3.00 0.00 0.00	0.0000	124.00	No Ice 1/2" Ice 1" Ice 2" Ice	2.13 2.32 2.51 2.92	1.77 1.95 2.13 2.51	0.05 0.07 0.10 0.16
(2) 6' x 2" Mount Pipe	A	From Face	3.00 0.00 0.00	0.0000	124.00	No Ice 1/2" Ice 1" Ice 2" Ice	1.43 1.92 2.29 3.06	1.43 1.92 2.29 3.06	0.02 0.03 0.05 0.09
(2) 6' x 2" Mount Pipe	B	From Face	3.00 0.00 0.00	0.0000	124.00	No Ice 1/2" Ice 1" Ice 2" Ice	1.43 1.92 2.29 3.06	1.43 1.92 2.29 3.06	0.02 0.03 0.05 0.09
(2) 6' x 2" Mount Pipe	C	From Face	3.00 0.00 0.00	0.0000	124.00	No Ice 1/2" Ice 1" Ice 2" Ice	1.43 1.92 2.29 3.06	1.43 1.92 2.29 3.06	0.02 0.03 0.05 0.09
Side Arm Mount [SO 701-3]	C	From Leg	0.50 0.00 1.00	0.0000	124.00	No Ice 1/2" Ice 1" Ice 2" Ice	2.83 3.92 5.01 7.19	2.83 3.92 5.01 7.19	0.20 0.24 0.28 0.36
**120ft WMNR Fine Arts Radio Platform Mount [LP 601-1]	B	None		0.0000	120.00	No Ice 1/2" Ice 1" Ice 2" Ice	28.47 33.59 38.71 48.95	28.47 33.59 38.71 48.95	1.12 1.51 1.91 2.69
100-1	C	From Leg	4.00 0.00 0.00	0.0000	120.00	No Ice 1/2" Ice 1" Ice 2" Ice	4.80 5.07 5.35 5.93	6.00 6.30 6.61 7.26	0.02 0.08 0.16 0.32
(2) 8'x2" Antenna Mount Pipe	A	From Face	3.00 0.00 0.00	0.0000	120.00	No Ice 1/2" Ice	1.90 2.73 3.40	1.90 2.73 3.40	0.03 0.04 0.06

Description	Face or Leg	Offset Type	Offsets: Horz Lateral ft Vert ft ft	Azimuth Adjustment °	Placement ft		C_AA_A Front ft^2	C_AA_A Side ft^2	Weight K
						1" Ice	4.40	4.40	0.12
						2" Ice			
(2) 8'x2" Antenna Mount Pipe	B	From Face	3.00 0.00 0.00	0.0000	120.00	No Ice	1.90	1.90	0.03
						1/2" Ice	2.73	2.73	0.04
							3.40	3.40	0.06
						1" Ice	4.40	4.40	0.12
						2" Ice			
(2) 8'x2" Antenna Mount Pipe	C	From Face	3.00 0.00 0.00	0.0000	120.00	No Ice	1.90	1.90	0.03
						1/2" Ice	2.73	2.73	0.04
							3.40	3.40	0.06
						1" Ice	4.40	4.40	0.12
						2" Ice			
Transition Ladder	C	From Face	2.00 0.00 -4.00	0.0000	120.00	No Ice	6.00	6.00	0.16
						1/2" Ice	8.00	8.00	0.24
							10.00	10.00	0.32
						1" Ice	14.00	14.00	0.48
						2" Ice			
(2) Side Arm Mount [SO 301-1]	C	From Face	3.00 0.00 0.00	0.0000	120.00	No Ice	1.00	0.90	0.02
						1/2" Ice	1.39	1.42	0.03
							1.78	1.94	0.04
						1" Ice	2.56	2.98	0.06
						2" Ice			
80ft Connecticut State Police									
Pipe Mount [PM 601-1]	A	From Leg	0.50 0.00 0.00	0.0000	80.00	No Ice	3.00	0.90	0.07
						1/2" Ice	3.74	1.12	0.08
							4.48	1.34	0.09
						1" Ice	5.96	1.78	0.12
						2" Ice			
Pipe Mount [PM 601-1]	C	From Leg	0.50 0.00 0.00	0.0000	80.00	No Ice	3.00	0.90	0.07
						1/2" Ice	3.74	1.12	0.08
							4.48	1.34	0.09
						1" Ice	5.96	1.78	0.12
						2" Ice			
63ft Sprint PCS									
GPS_A	C	From Leg	4.00 0.00 0.00	0.0000	63.00	No Ice	0.26	0.26	0.00
						1/2" Ice	0.32	0.32	0.00
							0.39	0.39	0.01
						1" Ice	0.56	0.56	0.02
						2" Ice			
Side Arm Mount [SO 701-1]	C	From Leg	0.50 0.00 0.00	0.0000	63.00	No Ice	0.85	1.67	0.07
						1/2" Ice	1.14	2.34	0.08
							1.43	3.01	0.09
						1" Ice	2.01	4.35	0.12
						2" Ice			
***									

Load Combinations

Comb. No.	Description
1	Dead Only
2	1.2 Dead+1.0 Wind 0 deg - No Ice
3	0.9 Dead+1.0 Wind 0 deg - No Ice
4	1.2 Dead+1.0 Wind 30 deg - No Ice
5	0.9 Dead+1.0 Wind 30 deg - No Ice
6	1.2 Dead+1.0 Wind 60 deg - No Ice
7	0.9 Dead+1.0 Wind 60 deg - No Ice
8	1.2 Dead+1.0 Wind 90 deg - No Ice

Comb. No.	Description
9	0.9 Dead+1.0 Wind 90 deg - No Ice
10	1.2 Dead+1.0 Wind 120 deg - No Ice
11	0.9 Dead+1.0 Wind 120 deg - No Ice
12	1.2 Dead+1.0 Wind 150 deg - No Ice
13	0.9 Dead+1.0 Wind 150 deg - No Ice
14	1.2 Dead+1.0 Wind 180 deg - No Ice
15	0.9 Dead+1.0 Wind 180 deg - No Ice
16	1.2 Dead+1.0 Wind 210 deg - No Ice
17	0.9 Dead+1.0 Wind 210 deg - No Ice
18	1.2 Dead+1.0 Wind 240 deg - No Ice
19	0.9 Dead+1.0 Wind 240 deg - No Ice
20	1.2 Dead+1.0 Wind 270 deg - No Ice
21	0.9 Dead+1.0 Wind 270 deg - No Ice
22	1.2 Dead+1.0 Wind 300 deg - No Ice
23	0.9 Dead+1.0 Wind 300 deg - No Ice
24	1.2 Dead+1.0 Wind 330 deg - No Ice
25	0.9 Dead+1.0 Wind 330 deg - No Ice
26	1.2 Dead+1.0 Ice+1.0 Temp
27	1.2 Dead+1.0 Wind 0 deg+1.0 Ice+1.0 Temp
28	1.2 Dead+1.0 Wind 30 deg+1.0 Ice+1.0 Temp
29	1.2 Dead+1.0 Wind 60 deg+1.0 Ice+1.0 Temp
30	1.2 Dead+1.0 Wind 90 deg+1.0 Ice+1.0 Temp
31	1.2 Dead+1.0 Wind 120 deg+1.0 Ice+1.0 Temp
32	1.2 Dead+1.0 Wind 150 deg+1.0 Ice+1.0 Temp
33	1.2 Dead+1.0 Wind 180 deg+1.0 Ice+1.0 Temp
34	1.2 Dead+1.0 Wind 210 deg+1.0 Ice+1.0 Temp
35	1.2 Dead+1.0 Wind 240 deg+1.0 Ice+1.0 Temp
36	1.2 Dead+1.0 Wind 270 deg+1.0 Ice+1.0 Temp
37	1.2 Dead+1.0 Wind 300 deg+1.0 Ice+1.0 Temp
38	1.2 Dead+1.0 Wind 330 deg+1.0 Ice+1.0 Temp
39	Dead+Wind 0 deg - Service
40	Dead+Wind 30 deg - Service
41	Dead+Wind 60 deg - Service
42	Dead+Wind 90 deg - Service
43	Dead+Wind 120 deg - Service
44	Dead+Wind 150 deg - Service
45	Dead+Wind 180 deg - Service
46	Dead+Wind 210 deg - Service
47	Dead+Wind 240 deg - Service
48	Dead+Wind 270 deg - Service
49	Dead+Wind 300 deg - Service
50	Dead+Wind 330 deg - Service

Maximum Member Forces

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
L1	179.813 - 132.966	Pole	Max Tension	48	0.00	-0.00	-0.00
			Max. Compression	26	-28.72	3.85	7.93
			Max. Mx	20	-9.92	622.42	-0.14
			Max. My	2	-9.86	-1.30	629.27
			Max. Vy	20	-19.38	622.42	-0.14
			Max. Vx	2	-19.57	-1.30	629.27
			Max. Torque	16			-5.53
L2	132.966 - 87.3652	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-55.01	10.11	7.06
			Max. Mx	20	-24.79	1846.28	-2.35
			Max. My	2	-24.75	-1.27	1858.23
			Max. Vy	20	-31.18	1846.28	-2.35
			Max. Vx	2	-31.36	-1.27	1858.23
			Max. Torque	16			-6.74
L3	87.3652 - 42.7922	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-72.52	12.51	9.46

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
			Max. Mx	20	-38.84	3274.38	-3.83
			Max. My	2	-38.82	-2.39	3295.39
			Max. Vy	20	-34.39	3274.38	-3.83
			Max. Vx	2	-34.62	-2.39	3295.39
			Max. Torque	16			-6.76
L4	42.7922 - 0	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-96.53	14.00	11.67
			Max. Mx	20	-58.93	5026.29	-5.51
			Max. My	2	-58.93	-4.11	5058.33
			Max. Vy	20	-37.03	5026.29	-5.51
			Max. Vx	2	-37.25	-4.11	5058.33
			Max. Torque	16			-6.74

Maximum Reactions

Location	Condition	Gov. Load Comb.	Vertical K	Horizontal, X K	Horizontal, Z K
Pole	Max. Vert	38	96.53	3.62	6.30
	Max. H_x	20	58.97	36.97	-0.05
	Max. H_z	2	58.97	-0.05	37.19
	Max. M_x	2	5058.33	-0.05	37.19
	Max. M_z	8	5016.88	-36.97	0.05
	Max. Torsion	2	6.64	-0.05	37.19
	Min. Vert	5	44.23	-18.53	32.23
	Min. H_x	8	58.97	-36.97	0.05
	Min. H_z	14	58.97	0.05	-37.19
	Min. M_x	14	-5051.96	0.05	-37.19
	Min. M_z	20	-5026.29	36.97	-0.05
	Min. Torsion	16	-6.73	18.53	-32.23

Tower Mast Reaction Summary

Load Combination	Vertical K	$Shear_x$ K	$Shear_z$ K	Overturning Moment, M_x kip-ft	Overturning Moment, M_z kip-ft	Torque kip-ft
Dead Only	49.14	-0.00	-0.00	-2.65	3.83	-0.00
1.2 Dead+1.0 Wind 0 deg - No Ice	58.97	0.05	-37.19	-5058.33	-4.11	-6.64
0.9 Dead+1.0 Wind 0 deg - No Ice	44.23	0.05	-37.19	-4961.55	-5.14	-6.55
1.2 Dead+1.0 Wind 30 deg - No Ice	58.97	18.53	-32.23	-4385.31	-2513.51	-6.64
0.9 Dead+1.0 Wind 30 deg - No Ice	44.23	18.53	-32.23	-4301.30	-2466.95	-6.56
1.2 Dead+1.0 Wind 60 deg - No Ice	58.97	32.04	-18.64	-2538.26	-4348.32	-4.89
0.9 Dead+1.0 Wind 60 deg - No Ice	44.23	32.04	-18.64	-2489.27	-4266.98	-4.84
1.2 Dead+1.0 Wind 90 deg - No Ice	58.97	36.97	-0.05	-11.80	-5016.88	-1.84
0.9 Dead+1.0 Wind 90 deg - No Ice	44.23	36.97	-0.05	-10.74	-4922.89	-1.83
1.2 Dead+1.0 Wind 120 deg - No Ice	58.97	32.00	18.55	2517.07	-4339.83	1.73
0.9 Dead+1.0 Wind 120 deg - No Ice	44.23	32.00	18.55	2470.16	-4258.68	1.69
1.2 Dead+1.0 Wind 150 deg - No Ice	58.97	18.45	32.18	4370.51	-2498.60	4.88
0.9 Dead+1.0 Wind 150 deg - No Ice	44.23	18.45	32.18	4288.42	-2452.39	4.80

Load Combination	Vertical	$Shear_x$	$Shear_z$	Overturning Moment, M_x	Overturning Moment, M_z	Torque
	K	K	K	kip-ft	kip-ft	kip-ft
1.2 Dead+1.0 Wind 180 deg - No Ice	58.97	-0.05	37.19	5051.96	13.20	6.72
0.9 Dead+1.0 Wind 180 deg - No Ice	44.23	-0.05	37.19	4956.92	11.77	6.62
1.2 Dead+1.0 Wind 210 deg - No Ice	58.97	-18.53	32.23	4379.10	2522.64	6.73
0.9 Dead+1.0 Wind 210 deg - No Ice	44.23	-18.53	32.23	4296.79	2473.62	6.64
1.2 Dead+1.0 Wind 240 deg - No Ice	58.97	-32.04	18.64	2532.09	4357.61	4.91
0.9 Dead+1.0 Wind 240 deg - No Ice	44.23	-32.04	18.64	2484.79	4273.77	4.86
1.2 Dead+1.0 Wind 270 deg - No Ice	58.97	-36.97	0.05	5.51	5026.29	1.77
0.9 Dead+1.0 Wind 270 deg - No Ice	44.23	-36.97	0.05	6.17	4929.76	1.76
1.2 Dead+1.0 Wind 300 deg - No Ice	58.97	-32.00	-18.55	-2523.53	4349.20	-1.82
0.9 Dead+1.0 Wind 300 deg - No Ice	44.23	-32.00	-18.55	-2474.84	4265.53	-1.78
1.2 Dead+1.0 Wind 330 deg - No Ice	58.97	-18.45	-32.18	-4377.01	2507.81	-4.89
0.9 Dead+1.0 Wind 330 deg - No Ice	44.23	-18.45	-32.18	-4293.14	2459.11	-4.82
1.2 Dead+1.0 Ice+1.0 Temp	96.53	-0.00	-0.00	-11.67	14.00	-0.01
1.2 Dead+1.0 Wind 0 deg+1.0 Ice+1.0 Temp	96.53	0.00	-7.28	-1071.24	13.53	-1.39
1.2 Dead+1.0 Wind 30 deg+1.0 Ice+1.0 Temp	96.53	3.62	-6.30	-929.58	-512.74	-1.45
1.2 Dead+1.0 Wind 60 deg+1.0 Ice+1.0 Temp	96.53	6.27	-3.64	-541.98	-897.83	-1.13
1.2 Dead+1.0 Wind 90 deg+1.0 Ice+1.0 Temp	96.53	7.24	-0.00	-12.31	-1038.58	-0.50
1.2 Dead+1.0 Wind 120 deg+1.0 Ice+1.0 Temp	96.53	6.27	3.64	517.51	-897.27	0.25
1.2 Dead+1.0 Wind 150 deg+1.0 Ice+1.0 Temp	96.53	3.62	6.30	905.52	-511.76	0.94
1.2 Dead+1.0 Wind 180 deg+1.0 Ice+1.0 Temp	96.53	-0.00	7.28	1047.75	14.65	1.37
1.2 Dead+1.0 Wind 210 deg+1.0 Ice+1.0 Temp	96.53	-3.62	6.30	906.09	540.92	1.44
1.2 Dead+1.0 Wind 240 deg+1.0 Ice+1.0 Temp	96.53	-6.27	3.64	518.50	926.03	1.11
1.2 Dead+1.0 Wind 270 deg+1.0 Ice+1.0 Temp	96.53	-7.24	0.00	-11.18	1066.79	0.49
1.2 Dead+1.0 Wind 300 deg+1.0 Ice+1.0 Temp	96.53	-6.27	-3.64	-541.01	925.47	-0.27
1.2 Dead+1.0 Wind 330 deg+1.0 Ice+1.0 Temp	96.53	-3.62	-6.30	-929.02	539.95	-0.95
Dead+Wind 0 deg - Service	49.14	0.01	-9.06	-1224.69	1.82	-1.68
Dead+Wind 30 deg - Service	49.14	4.51	-7.85	-1062.02	-604.78	-1.69
Dead+Wind 60 deg - Service	49.14	7.80	-4.54	-615.51	-1048.29	-1.26
Dead+Wind 90 deg - Service	49.14	9.01	-0.01	-4.79	-1209.83	-0.48
Dead+Wind 120 deg - Service	49.14	7.79	4.52	606.48	-1046.20	0.42
Dead+Wind 150 deg - Service	49.14	4.49	7.84	1054.53	-601.16	1.22
Dead+Wind 180 deg - Service	49.14	-0.01	9.06	1219.29	6.01	1.68
Dead+Wind 210 deg - Service	49.14	-4.51	7.85	1056.62	612.62	1.70
Dead+Wind 240 deg - Service	49.14	-7.80	4.54	610.11	1056.13	1.26
Dead+Wind 270 deg - Service	49.14	-9.01	0.01	-0.61	1217.67	0.48
Dead+Wind 300 deg - Service	49.14	-7.79	-4.52	-611.89	1054.05	-0.43
Dead+Wind 330 deg - Service	49.14	-4.49	-7.84	-1059.94	609.00	-1.22

Solution Summary

Load Comb.	Sum of Applied Forces PX K	PY K	PZ K	Sum of Reactions PX K	PY K	PZ K	% Error
1	0.00	-49.14	0.00	0.00	49.14	0.00	0.000%
2	0.05	-58.97	-37.19	-0.05	58.97	37.19	0.000%
3	0.05	-44.23	-37.19	-0.05	44.23	37.19	0.000%
4	18.53	-58.97	-32.23	-18.53	58.97	32.23	0.000%
5	18.53	-44.23	-32.23	-18.53	44.23	32.23	0.000%
6	32.04	-58.97	-18.64	-32.04	58.97	18.64	0.000%
7	32.04	-44.23	-18.64	-32.04	44.23	18.64	0.000%
8	36.97	-58.97	-0.05	-36.97	58.97	0.05	0.000%
9	36.97	-44.23	-0.05	-36.97	44.23	0.05	0.000%
10	32.00	-58.97	18.55	-32.00	58.97	-18.55	0.000%
11	32.00	-44.23	18.55	-32.00	44.23	-18.55	0.000%
12	18.45	-58.97	32.18	-18.45	58.97	-32.18	0.000%
13	18.45	-44.23	32.18	-18.45	44.23	-32.18	0.000%
14	-0.05	-58.97	37.19	0.05	58.97	-37.19	0.000%
15	-0.05	-44.23	37.19	0.05	44.23	-37.19	0.000%
16	-18.53	-58.97	32.23	18.53	58.97	-32.23	0.000%
17	-18.53	-44.23	32.23	18.53	44.23	-32.23	0.000%
18	-32.04	-58.97	18.64	32.04	58.97	-18.64	0.000%
19	-32.04	-44.23	18.64	32.04	44.23	-18.64	0.000%
20	-36.97	-58.97	0.05	36.97	58.97	-0.05	0.000%
21	-36.97	-44.23	0.05	36.97	44.23	-0.05	0.000%
22	-32.00	-58.97	-18.55	32.00	58.97	18.55	0.000%
23	-32.00	-44.23	-18.55	32.00	44.23	18.55	0.000%
24	-18.45	-58.97	-32.18	18.45	58.97	32.18	0.000%
25	-18.45	-44.23	-32.18	18.45	44.23	32.18	0.000%
26	0.00	-96.53	0.00	0.00	96.53	0.00	0.000%
27	0.00	-96.53	-7.28	-0.00	96.53	7.28	0.000%
28	3.62	-96.53	-6.30	-3.62	96.53	6.30	0.000%
29	6.27	-96.53	-3.64	-6.27	96.53	3.64	0.000%
30	7.24	-96.53	-0.00	-7.24	96.53	0.00	0.000%
31	6.27	-96.53	3.64	-6.27	96.53	-3.64	0.000%
32	3.62	-96.53	6.30	-3.62	96.53	-6.30	0.000%
33	-0.00	-96.53	7.28	0.00	96.53	-7.28	0.000%
34	-3.62	-96.53	6.30	3.62	96.53	-6.30	0.000%
35	-6.27	-96.53	3.64	6.27	96.53	-3.64	0.000%
36	-7.24	-96.53	0.00	7.24	96.53	-0.00	0.000%
37	-6.27	-96.53	-3.64	6.27	96.53	3.64	0.000%
38	-3.62	-96.53	-6.30	3.62	96.53	6.30	0.000%
39	0.01	-49.14	-9.06	-0.01	49.14	9.06	0.000%
40	4.51	-49.14	-7.85	-4.51	49.14	7.85	0.000%
41	7.80	-49.14	-4.54	-7.80	49.14	4.54	0.000%
42	9.01	-49.14	-0.01	-9.01	49.14	0.01	0.000%
43	7.79	-49.14	4.52	-7.79	49.14	-4.52	0.000%
44	4.49	-49.14	7.84	-4.49	49.14	-7.84	0.000%
45	-0.01	-49.14	9.06	0.01	49.14	-9.06	0.000%
46	-4.51	-49.14	7.85	4.51	49.14	-7.85	0.000%
47	-7.80	-49.14	4.54	7.80	49.14	-4.54	0.000%
48	-9.01	-49.14	0.01	9.01	49.14	-0.01	0.000%
49	-7.79	-49.14	-4.52	7.79	49.14	4.52	0.000%
50	-4.49	-49.14	-7.84	4.49	49.14	7.84	0.000%

Non-Linear Convergence Results

Load Combination	Converged?	Number of Cycles	Displacement Tolerance	Force Tolerance
1	Yes	4	0.00000001	0.00000001
2	Yes	5	0.00000001	0.00082623
3	Yes	5	0.00000001	0.00034327
4	Yes	6	0.00000001	0.00076354
5	Yes	6	0.00000001	0.00019674
6	Yes	6	0.00000001	0.00086243
7	Yes	6	0.00000001	0.00023121
8	Yes	5	0.00000001	0.00053530
9	Yes	5	0.00000001	0.00022000
10	Yes	6	0.00000001	0.00081847
11	Yes	6	0.00000001	0.00021684
12	Yes	6	0.00000001	0.00078384
13	Yes	6	0.00000001	0.00020517
14	Yes	5	0.00000001	0.00096237
15	Yes	5	0.00000001	0.00039851
16	Yes	6	0.00000001	0.00087796
17	Yes	6	0.00000001	0.00023599
18	Yes	6	0.00000001	0.00077516
19	Yes	6	0.00000001	0.00020033
20	Yes	5	0.00000001	0.00041246
21	Yes	5	0.00000001	0.00017012
22	Yes	6	0.00000001	0.00081250
23	Yes	6	0.00000001	0.00021442
24	Yes	6	0.00000001	0.00085093
25	Yes	6	0.00000001	0.00022722
26	Yes	4	0.00000001	0.00021469
27	Yes	6	0.00006759	0.00032362
28	Yes	6	0.00006700	0.00047426
29	Yes	6	0.00006683	0.00051165
30	Yes	6	0.00006729	0.00030130
31	Yes	6	0.00006669	0.00046225
32	Yes	6	0.00006666	0.00045449
33	Yes	6	0.00006720	0.00030939
34	Yes	6	0.00006673	0.00051837
35	Yes	6	0.00006691	0.00047680
36	Yes	6	0.00006754	0.00031517
37	Yes	6	0.00006700	0.00052078
38	Yes	6	0.00006702	0.00053496
39	Yes	5	0.00000001	0.00007569
40	Yes	5	0.00000001	0.00024125
41	Yes	5	0.00000001	0.00030944
42	Yes	4	0.00000001	0.00075889
43	Yes	5	0.00000001	0.00026558
44	Yes	5	0.00000001	0.00024325
45	Yes	5	0.00000001	0.00007759
46	Yes	5	0.00000001	0.00032092
47	Yes	5	0.00000001	0.00024580
48	Yes	4	0.00000001	0.00075124
49	Yes	5	0.00000001	0.00027104
50	Yes	5	0.00000001	0.00030078

Maximum Tower Deflections - Service Wind

Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt °	Twist °
L1	179.813 - 132.966	56.046	39	3.1964	0.0402
L2	136.659 - 87.3652	30.046	39	2.3526	0.0111
L3	92.2632 - 42.7922	12.485	39	1.3888	0.0041
L4	48.8362 - 0	3.253	39	0.6262	0.0014

Critical Deflections and Radius of Curvature - Service Wind

Elevation ft	Appurtenance	Gov. Load Comb.	Deflection in	Tilt °	Twist °	Radius of Curvature ft
180.00	Platform Mount [LP 601-1]	39	56.046	3.1964	0.0403	16930
170.00	Platform Mount [LP 303-1]	39	49.723	3.0118	0.0325	8626
160.00	Platform Mount [LP 601-1]	39	43.418	2.8213	0.0249	4271
134.00	(3) RMV5-2xx T-Arm Mounts [TA 702-3]	39	28.700	2.2961	0.0101	2011
131.00	3.5' Hor 2.5x2.5 Angle	39	27.233	2.2315	0.0091	2061
124.00	Platform Mount [LP 601-1]	39	24.011	2.0784	0.0072	2203
120.00	Platform Mount [LP 601-1]	39	22.291	1.9899	0.0064	2293
80.00	Pipe Mount [PM 601-1]	39	9.153	1.1483	0.0034	3169
63.00	GPS_A	39	5.475	0.8481	0.0022	3138

Maximum Tower Deflections - Design Wind

Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt °	Twist °
L1	179.813 - 132.966	229.912	2	13.0794	0.1604
L2	136.659 - 87.3652	123.848	2	9.6998	0.0443
L3	92.2632 - 42.7922	51.567	2	5.7399	0.0162
L4	48.8362 - 0	13.443	2	2.5884	0.0055

Critical Deflections and Radius of Curvature - Design Wind

Elevation ft	Appurtenance	Gov. Load Comb.	Deflection in	Tilt °	Twist °	Radius of Curvature ft
180.00	Platform Mount [LP 601-1]	2	229.912	13.0794	0.1623	4533
170.00	Platform Mount [LP 303-1]	2	204.155	12.3456	0.1303	2307
160.00	Platform Mount [LP 601-1]	2	178.460	11.5861	0.0995	1138
134.00	(3) RMV5-2xx T-Arm Mounts [TA 702-3]	2	118.335	9.4700	0.0402	524
131.00	3.5' Hor 2.5x2.5 Angle	2	112.320	9.2069	0.0361	535
124.00	Platform Mount [LP 601-1]	2	99.091	8.5808	0.0286	566
120.00	Platform Mount [LP 601-1]	2	92.018	8.2179	0.0254	586
80.00	Pipe Mount [PM 601-1]	2	37.804	4.7462	0.0134	776
63.00	GPS_A	2	22.614	3.5057	0.0089	764

Compression Checks

Pole Design Data

Section No.	Elevation ft	Size	L ft	L_u ft	Kl/r	A in^2	P_u K	ϕP_n K	Ratio $\frac{P_u}{\phi P_n}$
L1	179.813 - 132.966 (1)	TP25.5375x15x0.25	46.85	0.00	0.0	19.406 5	-9.86	1431.81	0.007

Section No.	Elevation ft	Size	L ft	L_u ft	Kl/r	A in^2	P_u K	ϕP_n K	Ratio $\frac{P_u}{\phi P_n}$
L2	132.966 - 87.3652 (2)	TP35.1887x24.2068x0.375	49.29	0.00	0.0	40.1382	-24.75	2982.07	0.008
L3	87.3652 - 42.7922 (3)	TP44.3577x33.3475x0.4375	49.47	0.00	0.0	59.1208	-38.82	4367.57	0.009
L4	42.7922 - 0 (4)	TP53x42.1376x0.5	48.84	0.00	0.0	68.2123	-42.45	5067.83	0.008

Pole Bending Design Data

Section No.	Elevation ft	Size	M_{ux} kip-ft	ϕM_{nx} kip-ft	Ratio $\frac{M_{ux}}{\phi M_{nx}}$	M_{uy} kip-ft	ϕM_{ny} kip-ft	Ratio $\frac{M_{uy}}{\phi M_{ny}}$
L1	179.813 - 132.966 (1)	TP25.5375x15x0.25	629.27	718.39	0.876	0.00	718.39	0.000
L2	132.966 - 87.3652 (2)	TP35.1887x24.2068x0.375	1858.22	2061.23	0.902	0.00	2061.23	0.000
L3	87.3652 - 42.7922 (3)	TP44.3577x33.3475x0.4375	3295.38	3814.58	0.864	0.00	3814.58	0.000
L4	42.7922 - 0 (4)	TP53x42.1376x0.5	3506.24	4462.49	0.786	0.00	4462.49	0.000

Pole Shear Design Data

Section No.	Elevation ft	Size	Actual V_u K	ϕV_n K	Ratio $\frac{V_u}{\phi V_n}$	Actual T_u kip-ft	ϕT_n kip-ft	Ratio $\frac{T_u}{\phi T_n}$
L1	179.813 - 132.966 (1)	TP25.5375x15x0.25	19.57	333.47	0.059	3.10	714.63	0.004
L2	132.966 - 87.3652 (2)	TP35.1887x24.2068x0.375	31.36	693.90	0.045	6.55	2034.33	0.003
L3	87.3652 - 42.7922 (3)	TP44.3577x33.3475x0.4375	34.62	1037.57	0.033	6.66	3789.49	0.002
L4	42.7922 - 0 (4)	TP53x42.1376x0.5	35.35	1211.08	0.029	6.66	4401.92	0.002

Pole Interaction Design Data

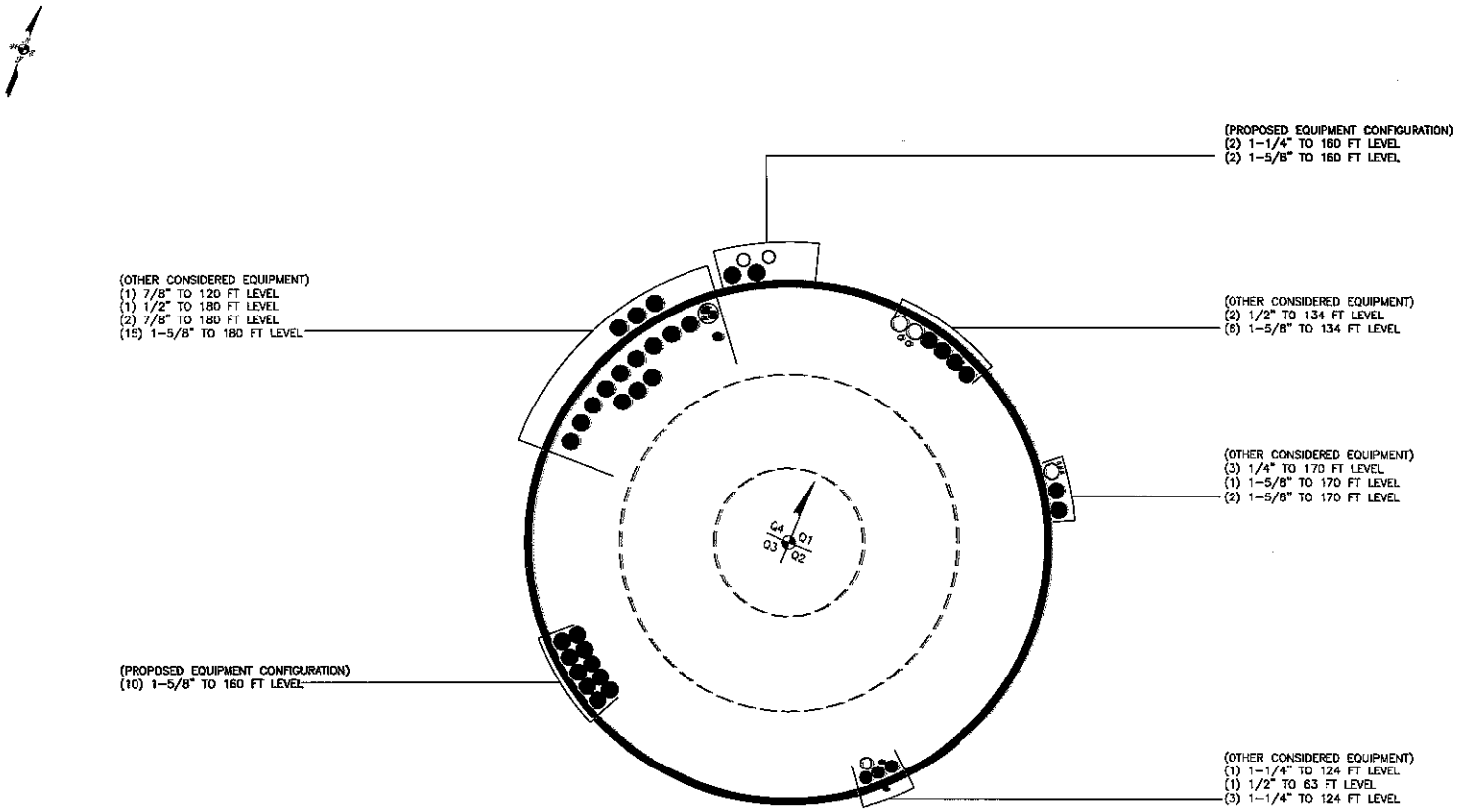
Section No.	Elevation ft	Ratio $\frac{P_u}{\phi P_n}$	Ratio $\frac{M_{ux}}{\phi M_{nx}}$	Ratio $\frac{M_{uy}}{\phi M_{ny}}$	Ratio $\frac{V_u}{\phi V_n}$	Ratio $\frac{T_u}{\phi T_n}$	Comb. Stress Ratio	Allow. Stress Ratio	Criteria
L1	179.813 - 132.966 (1)	0.007	0.876	0.000	0.059	0.004	0.887	1.050	4.8.2
L2	132.966 - 87.3652 (2)	0.008	0.902	0.000	0.045	0.003	0.912	1.050	4.8.2
L3	87.3652 - 42.7922 (3)	0.009	0.864	0.000	0.033	0.002	0.874	1.050	4.8.2
L4	42.7922 - 0 (4)	0.008	0.786	0.000	0.029	0.002	0.795	1.050	4.8.2

Section Capacity Table

Section No.	Elevation ft	Component Type	Size	Critical Element	P K	ϕP_{allow} K	% Capacity	Pass Fail
L1	179.813 - 132.966	Pole	TP25.5375x15x0.25	1	-9.86	1503.40	84.5	Pass
L2	132.966 - 87.3652	Pole	TP35.1887x24.2068x0.375	2	-24.75	3131.17	86.9	Pass
L3	87.3652 - 42.7922	Pole	TP44.3577x33.3475x0.4375	3	-38.82	4585.95	83.2	Pass
L4	42.7922 - 0	Pole	TP53x42.1376x0.5	4	-42.45	5321.22	75.7	Pass
							Summary	
						Pole (L2)	86.9	Pass
						RATING =	**86.9**	**Pass**

APPENDIX B

BASE LEVEL DRAWING



BUSINESS UNIT: 841293 TOWER ID: C_BASELEVEL

APPENDIX C

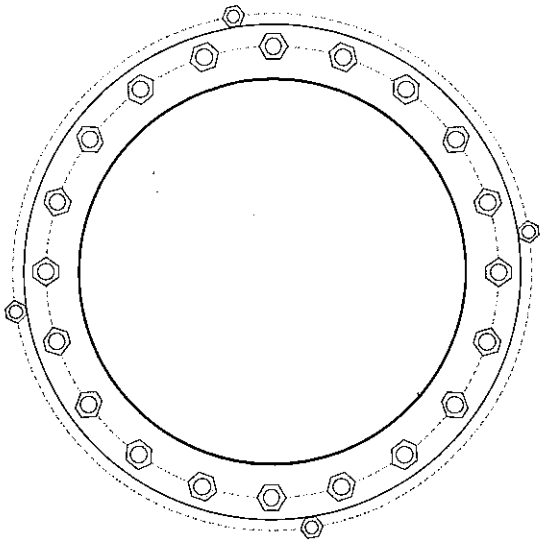
ADDITIONAL CALCULATIONS

Monopole Base Plate Connection

Site Info	
BU #	841293
Site Name	Kent-Bulls Bridge Road
Order #	431555 Rev.0

Analysis Considerations	
TIA-222 Revision	H
Grout Considered:	No
l_{ar} (in)	0.75

Applied Loads	
Moment (kip-ft)	5058.33
Axial Force (kips)	58.93
Shear Force (kips)	37.25



Connection Properties

Anchor Rod Data

GROUP 1: (20) 2-1/4" ø bolts (A615-75 N; Fy=75 ksi, Fu=100 ksi) on 62" BC
GROUP 2: (4) 1-3/4" ø bolts (F1554-105 N; Fy=105 ksi, Fu=125 ksi) on 71" BC

Base Plate Data

68" OD x 2.25" Plate (A572-60; Fy=60 ksi, Fu=75 ksi)

Stiffener Data

N/A

Pole Data

53" x 0.5" 18-sided pole (A572-65; Fy=65 ksi, Fu=80 ksi)

Analysis Results

Anchor Rod Summary *(units of kips, kip-in)*

GROUP 1:		
Pu = 172.64	ϕPn = 243.75	**Stress Rating**
Vu = 1.86	ϕVn = 73.13	**67.5%**
Mu = n/a	ϕMn = n/a	**Pass**
GROUP 2:		
Pu = 113.59	ϕPn = 199.5	**Stress Rating**
Vu = 0	ϕVn = 59.85	**54.2%**
Mu = n/a	ϕMn = n/a	**Pass**

Base Plate Summary

Max Stress (ksi):	43.16	(Flexural)
Allowable Stress (ksi):	54	
Stress Rating:	**76.1%**	**Pass**

Drilled Pier Foundation

BU # :	841293
Site Name:	Kent-Bulls Bridge Roac
Order Number:	431555 Rev.0

TIA-222 Revison:	H
Tower Type:	Monopole

Applied Loads	Comp.	Uplift
Moment (kip-ft)	5058	
Axial Force (kips)	59	
Shear Force (kips)	37	

Material Properties		
Concrete Strength, f'c:	3	ksi
Rebar Strength, Fy:	60	ksi

Pier Design Data		
Depth	19	ft
Ext. Above Grade	1	ft
Pier Section 1		
From 1' above grade to 19' below grade		
Pier Diameter	7.5	ft
Rebar Quantity	42	
Rebar Size	11	
Clear Cover to Ties	5.75	in
Tie Size	5	

Analysis Results		
Soil Lateral Capacity	*Compression*	*Uplift*
$D_{v=0}$ (ft from TOC)	5.67	-
Soil Safety Factor	1.41	-
Max Moment (kip-ft)	5253.79	-
Rating*	*90.1%*	-
Soil Vertical Capacity	*Compression*	*Uplift*
Skin Friction (kips)	377.67	-
End Bearing (kips)	1062.06	-
Weight of Concrete (kips)	129.27	-
Total Capacity (kips)	1439.72	-
Axial (kips)	188.27	-
Rating*	*12.5%*	-
Reinforced Concrete Capacity	*Compression*	*Uplift*
Critical Depth (ft from TOC)	5.59	-
Critical Moment (kip-ft)	5253.64	-
Critical Moment Capacity	10183.23	-
Rating*	*49.1%*	-

Soil Interaction Rating*	**90.1%**
Structural Foundation Rating*	**49.1%**

*Rating per TIA-222-H Section 15.5

Check Limitation	
Apply TIA-222-H Section 15.5:	☑

Soil Profile			
Groundwater Depth	10	ft	
# of Layers	6		

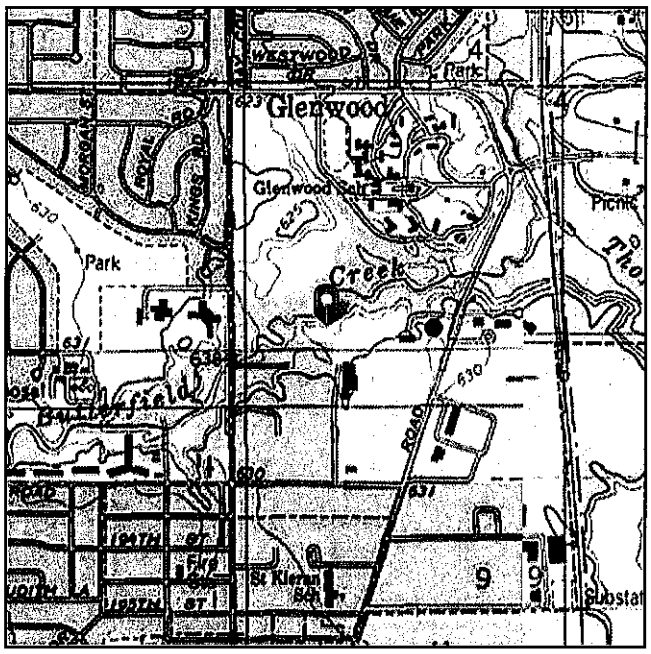
Layer	Top (ft)	Bottom (ft)	Thickness (ft)	γ_{soil} (pcf)	$\gamma_{concrete}$ (pcf)	Cohesion (ksf)	Angle of Friction (degrees)	Calculated Ultimate Skin Friction Comp (ksf)	Calculated Ultimate Skin Friction Uplift (ksf)	Ultimate Skin Friction Comp Override (ksf)	Ultimate Skin Friction Uplift Override (ksf)	Ult. Gross Bearing Capacity (ksf)	SPT Blow Count	Soil Type
1	0	3	3	130	150	0	0	0.000	0.000					Cohesionless
2	3	3.75	0.75	135	150	0	0	0.000	0.000					Cohesionless
3	3.75	10	6.25	135	150	0	40	1.046	1.046				61	Cohesionless
4	10	14	4	72.6	87.6	0	40	1.528	1.528				100	Cohesionless
5	14	18	4	82.6	87.6	0	42	1.719	1.719				100	Cohesionless
6	18	19	1	97.6	87.6	0	44	1.843	1.843			32.0534	100	Cohesionless

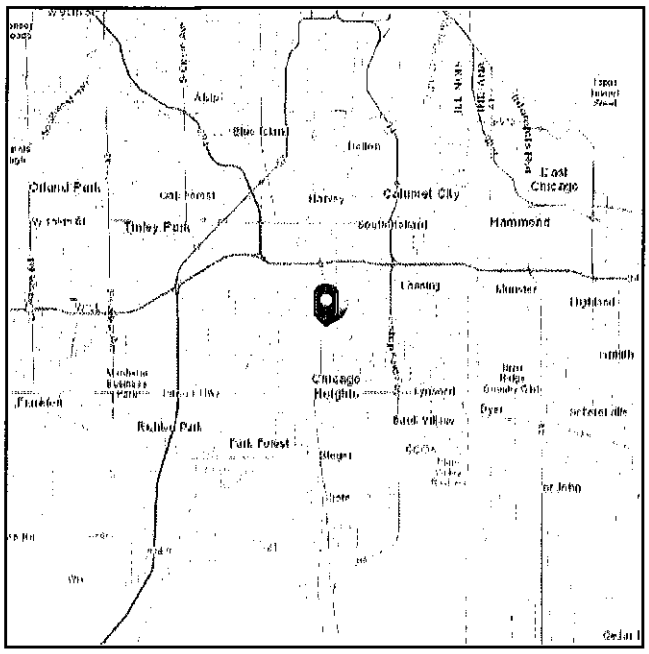
ASCE 7 Hazards Report

Address:
No Address at This Location

Standard: ASCE/SEI 7-10
Risk Category: II
Soil Class: D - Stiff Soil

Elevation: 617.84 ft (NAVD 88)
Latitude: 41.543119
Longitude: -87.632317





Ice

Results:

Ice Thickness:	0.75 in.
Concurrent Temperature:	5 F
Gust Speed:	40 mph

Data Source: Standard ASCE/SEI 7-10, Figs. 10-2 through 10-8

Date Accessed: Mon Aug 27 2018

Ice thicknesses on structures in exposed locations at elevations higher than the surrounding terrain and in valleys and gorges may exceed the mapped values.

Values provided are equivalent radial ice thicknesses due to freezing rain with concurrent 3-second gust speeds, for a 50-year mean recurrence interval, and temperatures concurrent with ice thicknesses due to freezing rain. Thicknesses for ice accretions caused by other sources shall be obtained from local meteorological studies. Ice thicknesses in exposed locations at elevations higher than the surrounding terrain and in valleys and gorges may exceed the mapped values.

ASCE
AMERICAN SOCIETY OF CIVIL ENGINEERS

The ASCE 7 Hazard Tool is provided for your convenience, for informational purposes only, and is provided "as is" and without warranties of any kind. The location data included herein has been obtained from information developed, produced, and maintained by third party providers; or has been extrapolated from maps incorporated in the ASCE 7 standard. While ASCE has made every effort to use data obtained from reliable sources or methodologies, ASCE does not make any representations or warranties as to the accuracy, completeness, reliability, currency, or quality of any data provided herein. Any third-party links provided by this Tool should not be construed as an endorsement, affiliation, relationship, or sponsorship of such third-party content by or from ASCE.

ASCE does not intend, nor should anyone interpret, the results provided by this Tool to replace the sound judgment of a competent professional, having knowledge and experience in the appropriate field(s) of practice, nor to substitute for the standard of care required of such professionals in interpreting and applying the contents of this Tool or the ASCE 7 standard.

In using this Tool, you expressly assume all risks associated with your use. Under no circumstances shall ASCE or its officers, directors, employees, members, affiliates, or agents be liable to you or any other person for any direct, indirect, special, incidental, or consequential damages arising from or related to your use of, or reliance on, the Tool or any information obtained therein. To the fullest extent permitted by law, you agree to release and hold harmless ASCE from any and all liability of any nature arising out of or resulting from any use of data provided by the ASCE 7 Hazard Tool.

Site Name: Kent South, CT
Cumulative Power Density

Operator	Operating Frequency	Number of Trans.	ERP Per Trans.	Total ERP	Distance to Target	Calculated Power Density	Maximum Permissable Exposure*	Fraction of MPE
	(MHz)		(watts)	(watts)	(feet)	(mW/cm^2)	(mW/cm^2)	(%)
VZW PCS	1970	4	1419	5676	160	0.0797	1.0	7.97%
VZW Cellular	869	4	649	2596	160	0.0365	0.579333333	6.29%
VZW AWS	2145	4	1556	6224	160	0.0874	1.0	8.74%
VZW 700	746	4	649	2596	160	0.0365	0.497333333	7.33%
Total Percentage of Maximum Permissible Exposure								30.34%

*Guidelines adopted by the FCC on August 1, 1996, 47 CFR Part 1 based on NCRP Report 86, 1986 and generally on ANSI/IEEE C95.1-1992

MHz = Megahertz
mW/cm^2 = milliwatts per square centimeter
ERP = Effective Radiated Power

Absolute worst case maximum values used.