

STATE OF CONNECTICUT
CONNECTICUT SITING COUNCIL

Ten Franklin Square
New Britain, Connecticut 06051
Phone: (860) 827-2935
Fax: (860) 827-2950

March 11, 2002

Kenneth C. Baldwin
Robinson & Cole
280 Trumbull Street
Hartford, CT 06103-3597

RE: **TS-VER-064-020215** - Cellco Partnership d/b/a Verizon Wireless request for an order to approve tower sharing at an existing telecommunications facility located at 305 West Service Road, Hartford, Connecticut.

Dear Attorney Baldwin:

At a public meeting held March 7, 2002, the Connecticut Siting Council (Council) ruled that the shared use of this existing tower site is technically, legally, environmentally, and economically feasible and meets public safety concerns, and therefore, in compliance with General Statutes § 16-50aa, the Council has ordered the shared use of this facility to avoid the unnecessary proliferation of tower structures. This facility has also been carefully modeled to ensure that radio frequency emissions are conservatively below State and federal standards applicable to the frequencies now used on this tower.

This decision is under the exclusive jurisdiction of the Council. Any additional change to this facility may require an explicit request to this agency pursuant to General Statutes § 16-50aa or notice pursuant to Regulations of Connecticut State Agencies Section 16-50j-73, as applicable. Such request or notice shall include all relevant information regarding the proposed change with cumulative worst-case modeling of radio frequency exposure at the closest point uncontrolled access to the tower base, consistent with Federal Communications Commission, Office of Engineering and Technology, Bulletin 65. Any deviation from this format may result in the Council implementing enforcement proceedings pursuant to General Statutes § 16-50u including, without limitation, imposition of expenses resulting from such failure and of civil penalties in an amount not less than one thousand dollars per day for each day of construction or operation in material violation.

This decision applies only to this request for tower sharing and is not applicable to any other request or construction.

The proposed shared use is to be implemented as specified in your letters dated February 15, 2002, and February 25, 2002.

Thank you for your attention and cooperation.

Very truly yours,


Mortimer A. Gelston
Chairman

MAG/RKE/laf

c: Honorable Eddie A. Perez, Mayor, City of Hartford
Robert A. LaPorte, Chairman of City Plan Com., City of Hartford
Saundra Kee-Borges, City Manager, City of Hartford
Maureen Woodstrom, SpectraSite Communications
Jennifer Young Gaudet, Pinnacle Site Development
Michele Briggs, SNET Mobility LLC
Ronald C. Clark, Nextel Communications

ROBINSON & COLE LLP

HARTFORD • STAMFORD • GREENWICH • NEW YORK • BOSTON

LAW OFFICES
www.rc.com

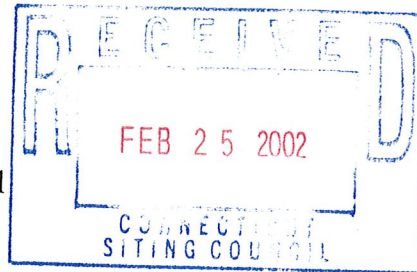
280 Trumbull Street
Hartford, CT 06103-3597
860-275-8200
Fax 860-275-8299

Kenneth C. Baldwin
860-275-8345
kbaldwin@rc.com

February 25, 2002

Via Hand Delivery

Robert Mercier
Siting Analyst
Connecticut Siting Council
10 Franklin Square
New Britain, CT 06051



Re: **Cellco Partnership d/b/a Verizon Wireless - Tower Share Authorization, 305 West Service Road, Hartford, Connecticut**

Dear Mr. Mercier:

Enclosed please find the original and 24 copies of a revised Structural Analysis for the 150-foot Nextel tower at 305 West Service Road in Hartford, Connecticut. This analysis correctly identifies the tower as a 150-foot structure.

Please contact me if you have any questions.

Sincerely,

Kenneth C. Baldwin

KCB/kmd
Enclosures



Structural Analysis of 148' FWT Monopole

West Service Road, 305 West Service Road, Hartford, CT 06120

CT-0002

2/11/02

1.0 Introduction

A structural analysis was performed on the above noted tower for the addition of proposed antennas as listed below. The analysis consisted of applying the forces caused by the existing and proposed loads, and determining the resulting stresses in the structure and its foundation.

The following criteria were used in the analysis:

- ANSI/TIA/EIA-222-F 80 mph wind [Hartford County], considering two loading cases:

Load Case 1. 100% wind pressure, without radial ice

Load Case 2. 75% wind pressure, with 1/2" radial ice

Information, including geometry and member sizes were obtained from FWT Drawing 18053, dated 09/10/98. The structure is in good condition and capable of supporting its original full design capacity.

2.0 Antenna and Transmission Line Loading

Table 1. Existing and Proposed Antennas

Elevation (Ft. A.G.L.)	Antenna	Carrier	Transmission Lines*	Notes
148	(9) Swedcom ALP-9212-N on Platform Mount	Nextel	(9) 1-1/4"	Existing
137	(9) Allgon 7184 (3) Allgon 7184 on T-Arm Mounts	AT&T	(9) 1-5/8" (3) 1-5/8"	Existing Future
125	(6) DAPA 48010 (3) Ericsson MiniLink 4xT1 on EEI Low Profile Platform Mount (Part No. K11011)	Northcoast	(9) 1-5/8" (3) 3/8"	Existing
115	(12) Decibel DB844H90E-XY (1) Lucent KS24019 On Low Profile Platform Mount	Verizon	(12) 1-5/8"***	Proposed

* Coax installed inside the monopole.

**Refer to attached porthole design drawing.

3.0 Results

Monopole Stress Levels

Elevation (<i> Ft. A.G.L.</i>)	Maximum Stress Ratio*
0.0 to 47.0	0.53
47.0 to 95.0	0.45
95.0 to 148.0	0.33

*Maximum Stress Ratio: 1.00=Full Allowable

Foundation Stress Levels

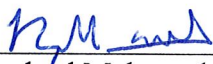
Base Reactions	Reactions	Result
Moment (<i>kip.ft</i>)	2057.4	Satisfactory
Compression (<i>kips</i>)	38.3	Satisfactory
Shear (<i>kips</i>)	20.3	Satisfactory

The foundation is *structurally adequate* to accommodate the existing and proposed loading conditions.

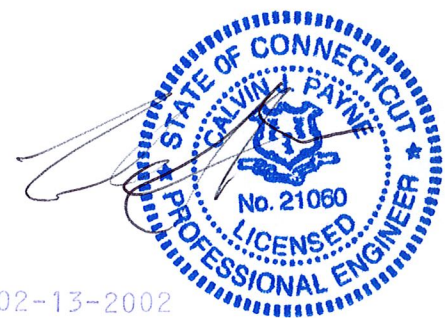
4.0 Conclusions and Recommendations

1. The tower and foundation are *structurally adequate* to accommodate the existing and proposed antenna and transmission lines loading used in this analysis.
2. Any future changes in loading must be reviewed by the SpectraSite Engineering Department.

Should any questions arise concerning this report please contact the undersigned.



Raphael Mohamed
Structural Engineer

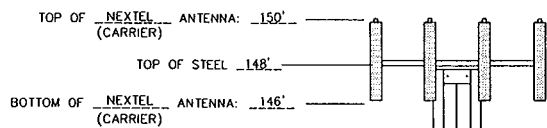


02-13-2002

Calvin J. Payne, P.E.
Chief Engineer

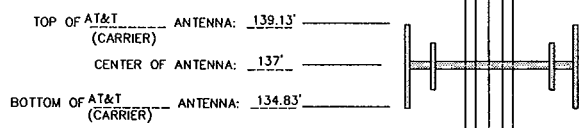
CARRIER <u>NEXTEL</u>			
ANTENNA/MOUNT TYPE/CABLE SCHEDULE			
SECTOR	1	2	3
AZIMUTH	0°	180°	270°
CABLE SIZE	1 1/4"	1 1/4"	1 1/4"
NO. OF CABLES	3	3	3
ANTENNA TYPE	PANEL	PANEL	PANEL
MOUNT TYPE	PLATFORM	PLATFORM	PLATFORM

NOTE: 1. No. OF ANTENNA PER SECTOR? 3



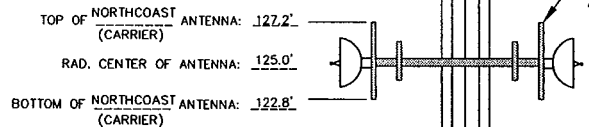
CARRIER <u>AT&T</u>			
ANTENNA/MOUNT TYPE/CABLE SCHEDULE			
SECTOR	1	2	3
AZIMUTH	30°	150°	270°
CABLE SIZE	1 5/8"	1 5/8"	1 5/8"
NO. OF CABLES	3	3	3
ANTENNA TYPE	ALLGON	ALLGON	ALLGON
MOUNT TYPE	T-ARM	T-ARM	T-ARM

NOTE: No. OF ANTENNA PER SECTOR? 3



PROPOSED NORTHCOAST COM. LLC

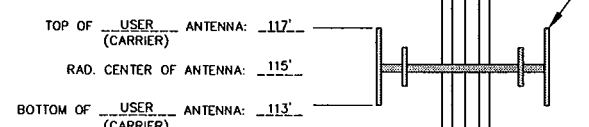
CARRIER <u>NORTHCOAST</u>			
ANTENNA/MOUNT TYPE/CABLE SCHEDULE			
SECTOR	1	2	3
AZIMUTH	0°	120°	240°
CABLE SIZE	1 5/8"	1 5/8"	1 5/8"
NUMBER OF CABLES	2	2	2
ANTENNA TYPE	PANEL	PANEL	PANEL
MOUNT TYPE	PER SCI	PER SCI	PER SCI
ANTENNA MFG.	DAPA	DAPA	DAPA
ANTENNA MODEL	48010	48010	48010
NUMBER OF ANTENNAS	2	2	2



PROPOSED NORTHCOAST ANTENNA ARRAY

PROPOSED NORTHCOAST COM. LLC

CARRIER <u>NORTHCOAST</u>			
ANTENNA/MOUNT TYPE/CABLE SCHEDULE			
SECTOR	1	2	3
AZIMUTH	TBD	TBD	TBD
CABLE SIZE	3/8" & 1/2"	3/8" & 1/2"	3/8" & 1/2"
NUMBER OF CABLES	2	2	2
ANTENNA TYPE	DISH	DISH	DISH
MOUNT TYPE	PER SCI	PER SCI	PER SCI
ANTENNA MFG.	ERICSSON	ERICSSON	ERICSSON
ANTENNA MODEL	4XT1	4XT1	4XT1
NUMBER OF ANTENNAS	1	1	1



PROPOSED USER ANTENNA ARRAY

CARRIER <u>USER</u>			
ANTENNA/MOUNT TYPE/CABLE SCHEDULE			
SECTOR	1	2	3
AZIMUTH	30°	150°	270°/270°
CABLE SIZE	1 5/8"	1 5/8"	1 5/8" / 1"
NUMBER OF CABLES	4	4	4/1
ANTENNA TYPE	PANEL	PANEL	PANEL
MOUNT TYPE	13' PLATFORM		
ANTENNA MFG.	DECIBEL	DECIBEL	*
ANTENNA MODEL	DBB44H90E-XY		**
NUMBER OF ANTENNAS	4	4	4/1

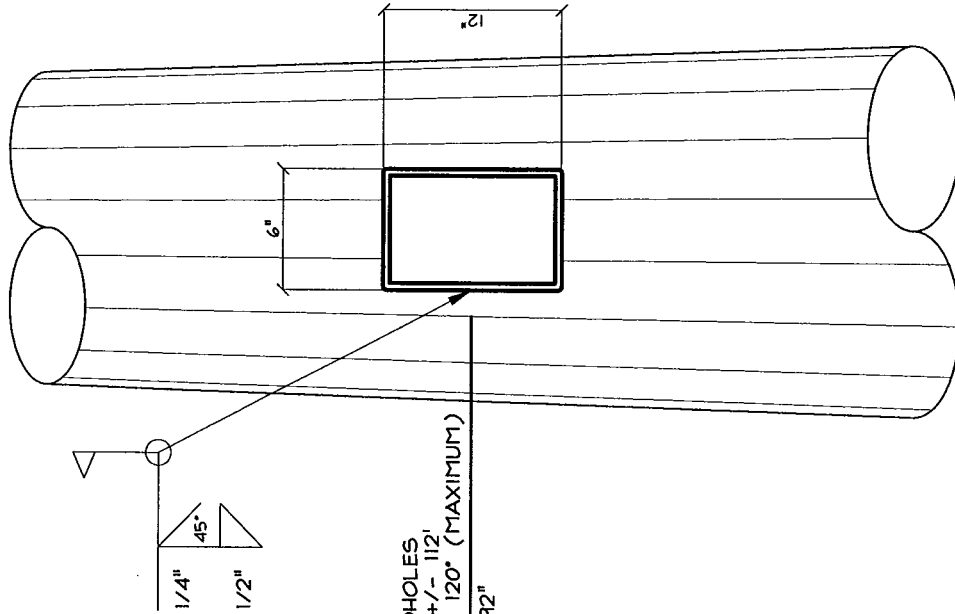
* DECIBEL/LUCENT
** DBB44H90E-XY / KS24019

ENTRY\EXIT PORTS						
	ENTRY	EXIT	ENTRY	EXIT	ENTRY	EXIT
HEIGHT (O.C.)	4'		10'			
SIZE	1'x2'		1'x2'			
AZIMUTH (NORTH = 0°)	120°		120°			
			310°			
OCCUPIED (CHECK)						

TOP OF CAISSON ELEVATION = 0"
GROUND ELEVATION (REF 0.0)

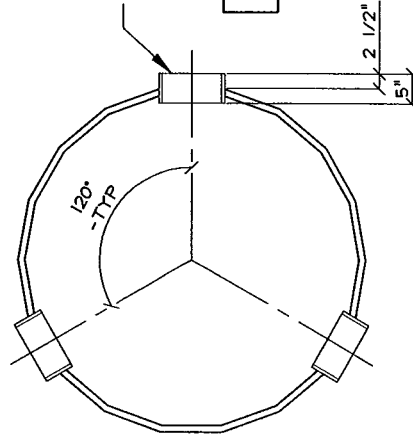
MONOPOLE TOWER ELEVATION
NOT TO SCALE

JOB No.				<p>8000 REGENCY PARKWAY, SUITE 570 CARY, NC 27511</p>	<p>HARTFORD CT-0002</p>	<p>TOWER ELEVATION SHEET 2 OF 2</p>
DATE:	6/19/00					
REV.	0	4 SPB REVISE USER COLLO	1/30/02			
DRAWN	QA/QC	3 SPB USER COLLO	1/24/02			
ESR	RSR	2 RJ REVISED NORTHCOAST TOWER INFORMATION	8/8/01			
		1 RJ ADD NORTHCOAST COLLO TO SITE	7/16/01			
		NO. BY REVISION	DATE			



GENERAL NOTES:

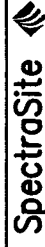
1. CONTRACTOR TO VERIFY ALL DIMENSIONS AND CONDITIONS PRIOR TO INSTALLATION.
2. CONTRACTOR MUST PROTECT ALL EXISTING FACILITIES, STRUCTURES, AND TRANSMISSION LINES FROM FIRE AND DAMAGE.
3. CONSTRUCTION TO FOLLOW LOCAL BUILDING CODES, AND ANSI/TIA/EIA-222-F (1996).
4. CONTRACTOR IS RESPONSIBLE TO SUPPLY ADEQUATE BRACING AND/OR SUPPORT FOR THE STRUCTURE DURING INSTALLATION.
5. ALL WELDING MUST BE PERFORMED BY AN AWS CERTIFIED WELDER AND BE IN CONFORMANCE WITH AWS D1.1. CONTRACTOR'S WELDER CERTIFICATION MUST BE PROVIDED FOR APPROVAL TO SPECTRASITE ENGINEERING PRIOR TO COMMENCEMENT OF WORK.



FMT PART NO FM0006
6" x 12" HANDHOLE [TS 12" x 6" x 1/2" x 5" GRADE 65]
INSTALL PER THIS SHEET AND STANDARD
FMT TECHNICAL GUIDELINES.
SEE ATTACHED.

**** MAXIMUM 3 HANDHOLES @ 120°
120° MINIMUM HORIZONTAL SPACING**

TITLE: PORTHOLE INSTALLATION



CUSTOMER: VERIZON

PROJECT: 148' FWT MONOPOLE

SITE: WEST SERVICE, CT

DWN BY: JAPP:R'D:	DATE:	PROJECT No.:	DRAWING No.:
CCD	RIM	01/28/02	CT-0002
			SK02

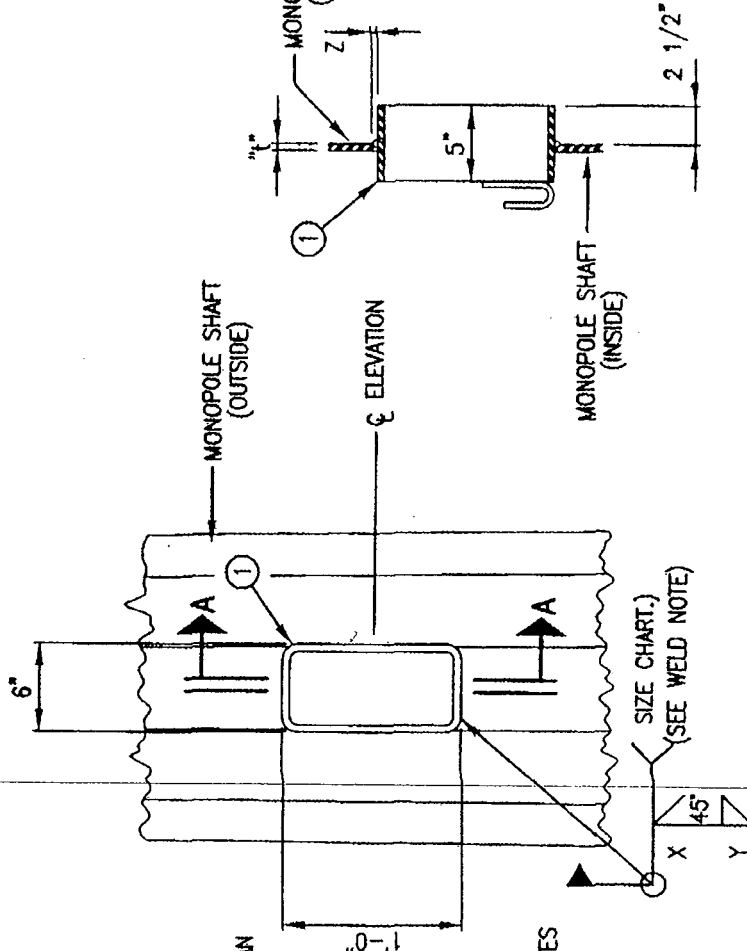
FIELD NOTES:

- 1.) ALL WELDING SHALL BE IN ACCORDANCE WITH AWS D1.1 USING E8018-X OR ER80S-X WIRE.
- 2.) GALVANIZING & GALVANIZING REPAIR IN ACCORDANCE WITH ASTM A123, USING EITHER HOT PATCH OR ZINC RICH PAINT.
- 3.) **CAUTION:** BY CUTTING THE HOLE IN THE SHAFT, YOU ARE WEAKENING THE SHAFT IN THAT AREA UNTIL THE INSTALLATION IS COMPLETE WITH THE PORT WELDED IN PLACE.
CUSTOMER AND CONTRACTOR ARE RESPONSIBLE FOR PROPERLY SUPPORTING THE STRUCTURE DURING INSTALLATION. (i.e. TEMPORARY GUYS, CRANES, ETC.) FWT RECOMMENDS THAT WORK BE PERFORMED UNDER CALM WIND CONDITIONS.
- 4.) NO MORE THAN 2 OR 3 LINE ENTRANCES (HANDHOLES) CAN BE INSTALLED AT ONE ELEVATION PER THE FOLLOWING:
 - A.) MINIMUM POLE DIAMETER IS 14" FOR THREE PORTS. 3-RIM INSTALLATION (TYPICAL 120° SEPARATION). (MINIMUM 90° SEPARATION).
 - B.) MINIMUM POLE DIAMETER IS 12" FOR TWO PORTS. 2-RIM INSTALLATION (TYPICAL 180° SEPARATION). (MINIMUM 90° SEPARATION).
 - C.) COMPLETE INSTALLATION ONE PORT AT A TIME.
 - D.) MAINTAIN ONE FOOT VERTICAL SEPARATION BETWEEN EXISTING PORTS, ALL OTHER PENETRATIONS, TOP PLATES AND SLIP AREAS.
- 5.) FWT REQUIRES THIRD PARTY CERTIFIED WELDING INSPECTOR AT TIME OF INSTALLATION.
- 6.) CUSTOMER IS RESPONSIBLE FOR FURNISHING THIRD PARTY INSPECTION REPORT TO FWT FOR APPROVAL BEFORE HANDHOLE INSTALLATION CERTIFICATION IS VALID.

973-686-6555
Jasper

WELD SIZE CHART		
(1) ORIGINAL POLE WALL THICKNESS (IN.)	WELD SIZE (X) (Y)	45° BEVEL (Z)
1/2" (0.5000")	7/16" 1/2"	7/16"
9/16" (0.5625")	1/2" 9/16"	1/2"

BILL OF MATERIAL				
ITEM	MARK NO.	QTY.	DESCRIPTION	WEIGHT/lbs
1	W06123	1	15 12" x 6" x 1/2" x 0'-5" (HAND HOLE RIM)	28.0
2				
3				
4				
5				
TOTAL GALVANIZED WEIGHT/lbs				29.4



ELEVATION VIEW

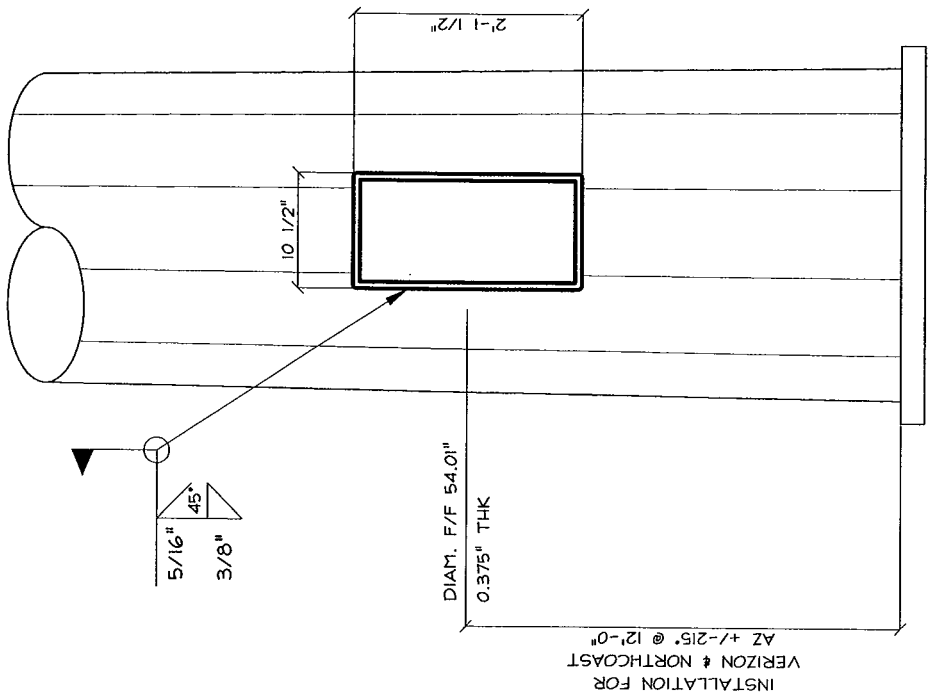
SECTION "A-A"

REV.	DATE	BY	CHK BY	DESCRIPTION
4	02-JAN-01	MGS		REVISED FIELD NOTES
3	25-APR-00	RJS		UPDATED TITLE BLOCK / DRAWING FORMAT
2	1-APR-99	SSS		REVISED FIELD NOTES #1 AND #2
1	08-JUL-97	JBY		ADDED INCREMENT CHART/FIELD NOTES

DESIGNED BY:	RJS	CREATED BY:	RJS	DWG FILE:	C:\AST\FW\PM0006.Dwg
SPECIFIC INFORMATION:	6" x 12" HAND HOLE RIM INSTALLATION (006123)				
SCALE:	1" = 1'-0"	SHEET NO.:	3		
DATE:	8-JUL-97	DATE:	8-JUL-97		
STANDARD:	FM0006				

FWT, Inc.
 5750 East I-20
 Fort Worth, Texas 76119 U.S.A.
 (817) 255-3060 FAX (817) 255-8656

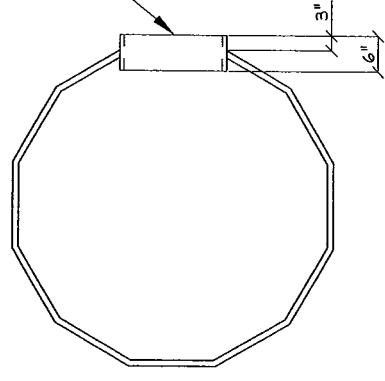
PROPERTY AND CONFIDENTIAL INFORMATION OF FWT, INC. REPRODUCTION OR DISSEMINATION OF THIS INFORMATION WITHOUT WRITTEN CONSENT OF FWT, INC. IS PROHIBITED.



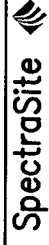
NOTE: EXISTING ENTRY PORTS @ 10'-0" @ 310°, AND 120°
 NOTE: EXISTING ENTRY PORTS @ 4'-0" @ 120°

GENERAL NOTES:

1. CONTRACTOR TO VERIFY ALL DIMENSIONS AND CONDITIONS PRIOR TO INSTALLATION.
2. CONTRACTOR MUST PROTECT ALL EXISTING FACILITIES, STRUCTURES, AND TRANSMISSION LINES FROM FIRE AND DAMAGE.
3. CONSTRUCTION TO FOLLOW LOCAL BUILDING CODES, AND ANSI/TIA/EIA-222-F (1996).
4. CONTRACTOR IS RESPONSIBLE TO SUPPLY ADEQUATE BRACING AND/OR SUPPORT FOR THE STRUCTURE DURING INSTALLATION.
5. ALL WELDING MUST BE PERFORMED BY AN AWS CERTIFIED WELDER AND BE IN CONFORMANCE WITH AWS D1.1. CONTRACTOR'S WELDER CERTIFICATION MUST BE PROVIDED FOR APPROVAL TO SPECTRASITE ENGINEERING PRIOR TO COMMENCEMENT OF WORK.



TITLE: PORTHOLE INSTALLATION



CUSTOMER: VERIZON & NORTHCOAST
 PROJECT: 148' FORT WORTH TOWER MONOPOLE
 SITE: WEST A STREET, CT

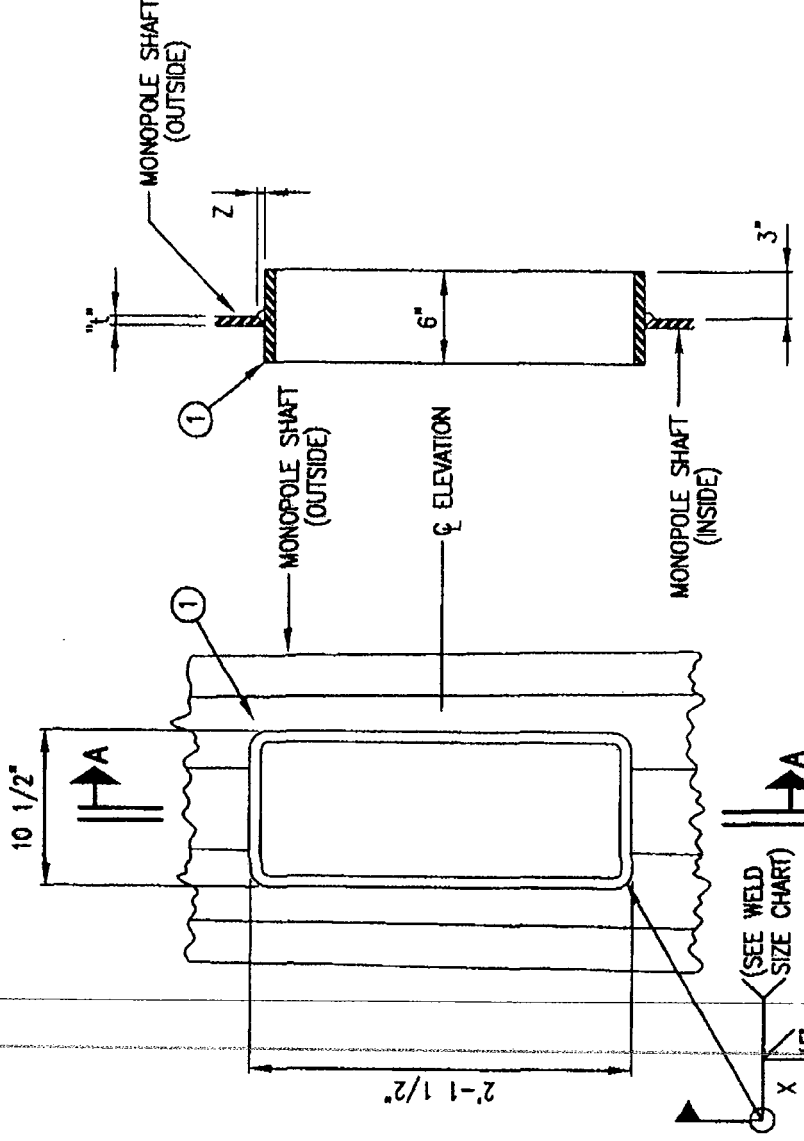
OWN BY: APPR'D:	DATE:	PROJECT No.:	DRAWING No.:
CCD	02/07/02	CT-0002	SK03

FIELD NOTES:

- 1.) ALL WELDING SHALL BE IN ACCORDANCE WITH AWS D1.1 USING E8018-X OR ER80S-X WIRE.
- 2.) GALVANIZING & GALVANIZING REPAIR IN ACCORDANCE WITH ASTM A123, USING EITHER HOT PATCH OR ZINC RICH PAINT.
- 3.) **CAUTION:** BY CUTTING THE HOLE IN THE SHAFT, YOU ARE WEAKENING THE SHAFT IN THAT AREA UNTIL THE INSTALLATION IS COMPLETE WITH THE PORT WELDED IN PLACE.
CUSTOMER AND CONTRACTOR ARE RESPONSIBLE FOR PROPERLY SUPPORTING THE STRUCTURE DURING INSTALLATION. (i.e. TEMPORARY GUYS, CRANES, ETC.) FWT RECOMMENDS THAT WORK BE PERFORMED UNDER CALM WIND CONDITIONS.
- 4.) NO MORE THAN 2 LINE ENTRANCES (EXIT PORTS) CAN BE INSTALLED AT ONE ELEVATION PER THE FOLLOWING:
 - A.) MINIMUM POLE DIAMETER IS 30" FOR TWO PORTS. 2-RIM INSTALLATION (TYPICAL 180° SEPARATION). (MINIMUM 90° SEPARATION).
 - B.) COMPLETE INSTALLATION ONE PORT AT A TIME.
 - C.) MAINTAIN ONE FOOT VERTICAL SEPARATION BETWEEN EXISTING PORTS, ALL OTHER PENETRATIONS, BASE PLATES AND SLIP AREAS.
- 5.) FWT REQUIRES THIRD PARTY CERTIFIED WELDING INSPECTOR AT TIME OF INSTALLATION.
- 6.) CUSTOMER IS RESPONSIBLE FOR FURNISHING THIRD PARTY INSPECTION REPORT TO FWT FOR APPROVAL BEFORE HANDHOLE INSTALLATION CERTIFICATION IS VALID.

WELD SIZE CHART		
(1) ORIGINAL POLE WALL THICKNESS (IN.)	WELD SIZE (X)	45° BEVEL (Z)
7/16 (0.4375)	3/8" 7/16"	3/8"
1/2" (0.5000)	7/16" 1/2"	7/16"

BILL OF MATERIAL			
ITEM	MARK NO.	QTY.	DESCRIPTION
1	W09242	1	WELDMENT 25 1/2" x 10-1/2" x 3/4" x 0'-6" (EXIT PORT)
2			
3			
4			
5			
			TOTAL GALVANIZED WEIGHT/LBS
			88.4



SECTION "A-A"

ELEVATION VIEW

REV.	DATE	BY	INIT.	DESCRIPTION
3	02-JAN-01	MCS		REVISED FIELD NOTES
2	25-APR-00	RJS		UPDATED TITLE BLOCK / DWG FORMAT / CHANGED DWG #
1	1-APR-99	SSS		REVISED FIELD NOTES #1 AND #2

DESIGN BY: TDJ	CAD FILE:	SCALE: 1" = 1'-0"	SHEET NO.:	REV.:
SPECIFIC INFORMATION		DATE: 28-JUL-97	JOB NO.:	2
9" x 24" HAND HOLE RIM INSTALLATION (W09242)				
FIELD MODIFICATION				
STANDARD				
FM0009				

FWT, Inc.
 Fort Worth, Texas 76119 U.S.A.
 5750 East I-20
 (817) 255-3080 FAX (817) 255-8856

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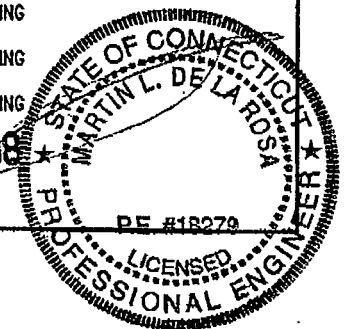
P.O. BOX 8597 FORT WORTH, TX 76124-0597
 PHONE: (800) 433-1816 FAX: (817) 429-6010

JOB DATA	
Page 1 of 1	Job No. 18053
By JS/PS	Design No. M98-1876-A
Chk'd By <i>TLL/gdl/gf/mD</i>	Date 09-10-1998
	Rev. No. Rev. Date
Pole 180 FT MONOPOLE	
Site CTO767, NORTHWEST SERVICE ROAD, HARTFORD, CT	
Owner NEXTEL COMMUNICATIONS	
Ref. No.	
Design ACCORDING TO TIA/EIA-222-F 1996	

FINAL DESIGN - FOR FABRICATION		
LOAD CASES		
CASE 1	85 MPH WITH NO ICE	DESIGN WIND
CASE 2	73 MPH WITH 1/2" RADIAL ICE	REDUCED WIND WITH ICE
CASE 3	50 MPH WITH NO ICE	OPERATIONAL WIND

POLE SPECIFICATIONS	
Pole Shape Type:	18-SIDED POLYGON
Taper:	0.214566 IN/FT
Shaft Steel:	ASTM A572 GRADE 65
Base PL Steel:	ASTM A633 GR. E (60 KSI)
Anchor Bolts:	2 1/4" x 7'-0" LONG #18J ASTM A615 GRADE 75

ANTENNA LIST		
No.	Elev.	Description
-	TOP	3/4" LIGHTNING ROD
1-12	180.00	(12) SWEDCOM ALP-9212-N
-	180.00	12-FT L.P.S. MOUNT W/SERVICE GRATING
13-24	170.00	(12) SWEDCOM ALP-9212-N
-	170.00	12-FT L.P.S. MOUNT W/SERVICE GRATING
25-36	160.00	(12) SWEDCOM ALP-9212-N
-	160.00	12-FT L.P.S. MOUNT W/SERVICE GRATING



STEP BOLTS FULL HEIGHT FROM 9'-6" ABOVE BASE PLATE
 ANTENNA FEED LINES RUN INSIDE OF POLE.

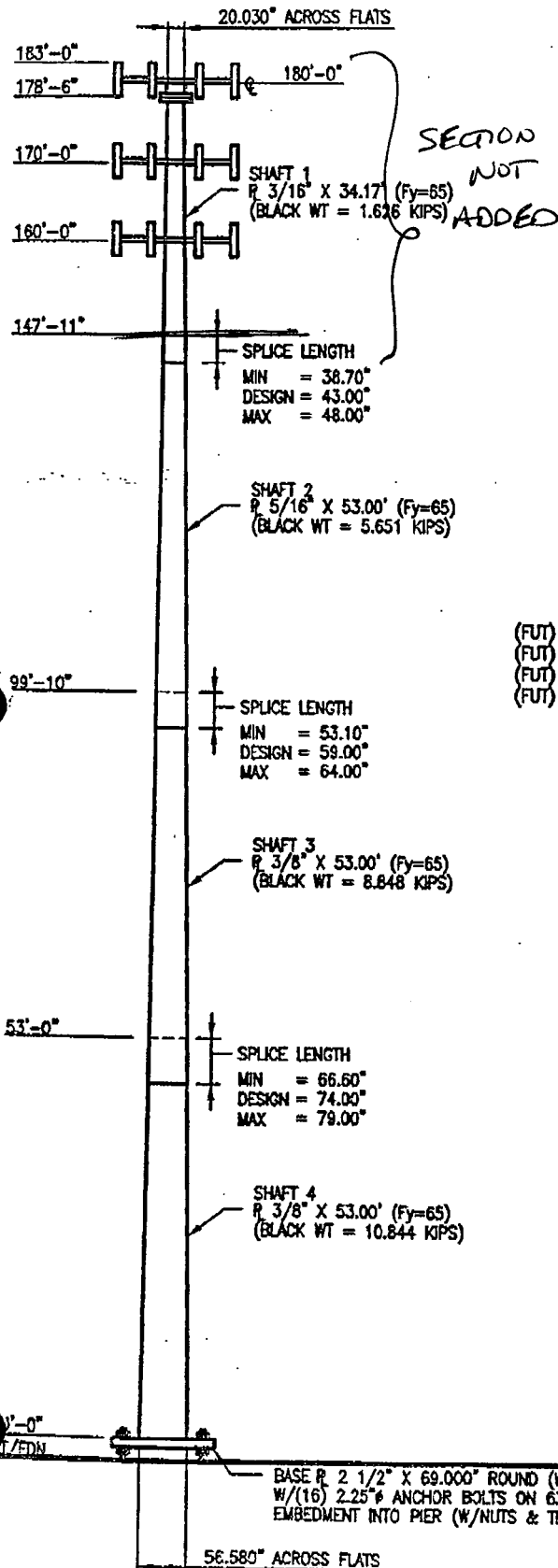
Elevation	85 MPH WIND		50 MPH WIND	
	Lateral Deflection (Inches)	Rotation (sway) (degrees)	Lateral Deflection (Inches)	Rotation (sway) (degrees)
TOP	177.0	9.415	61.0	3.256

SHAFT SECTION DATA					
Shaft Section	Section Length (feet)	Plate Thickness (in.)	Lap Splice (in.)	Diameter Across Flats (Inches)	
				Top	Bottom
1	34.17	0.1875	43.00	20.030	27.361
2	53.00	0.3125	59.00	26.217	37.589
3	53.00	0.3750	74.00	35.909	47.281
4	53.00	0.3750		45.208	56.580

UNFACTORED BASE REACTIONS

MOMENT = 3969 ft-kips
 SHEAR = 29.4 kips
 AXIAL = 39.5 kips
 EST. SHAFT + BASE P. WT. = 29.6 kips

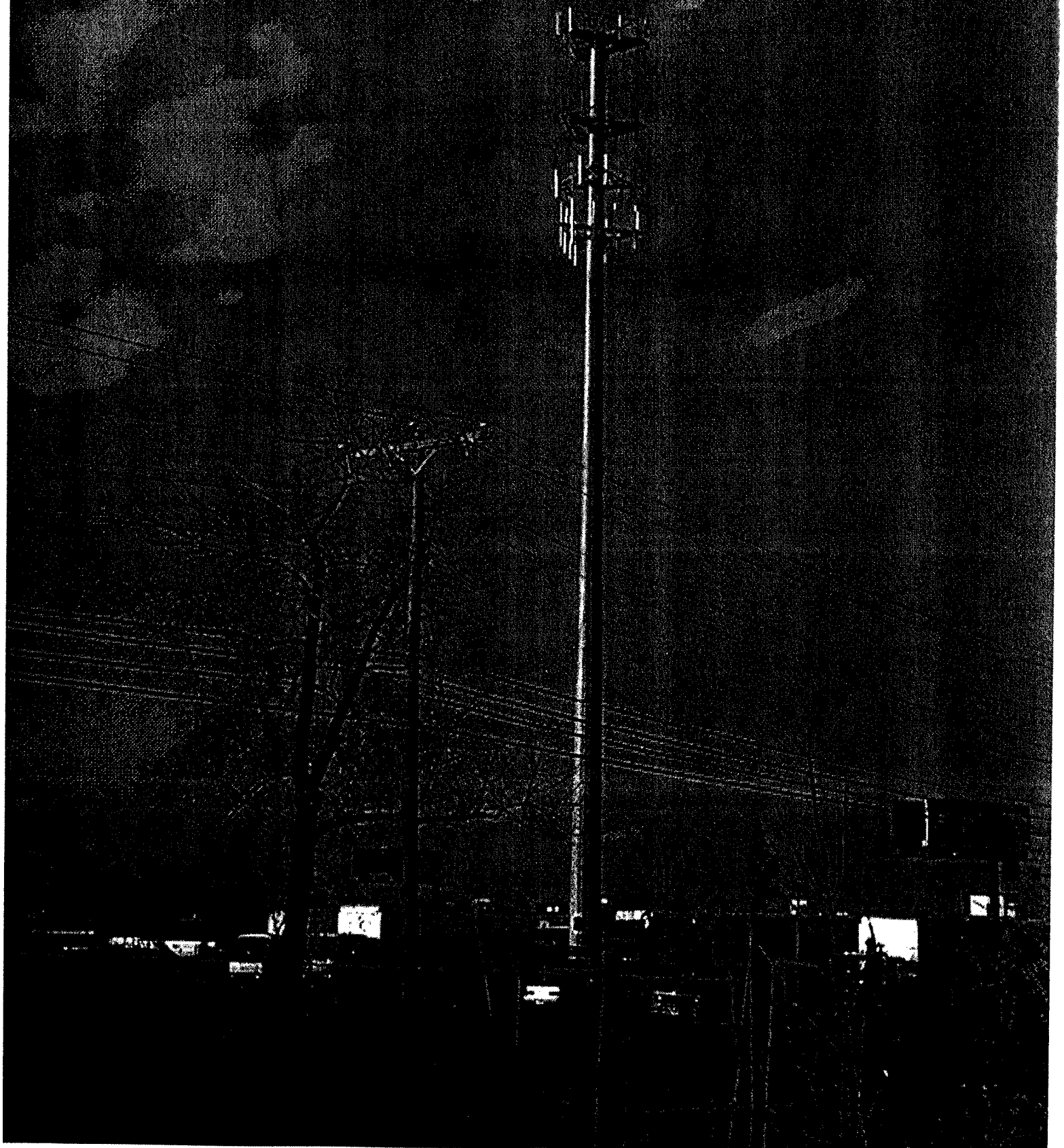
APPROXIMATE WEIGHT OF GALVANIZED POLE SHAFTS (LBS)		
TOP PLATE + SHAFT 1	2050	NOTE: WEIGHTS SHOWN DO NOT INCLUDE ANY ATTACHMENTS, MOUNTS, PLATFORMS, HANDHOLES, ETC. FIELD VERIFY WEIGHTS PRIOR TO LIFTING.
SHAFT 2	6500	
SHAFT 3	10200	
BASE PLATE + SHAFT 4	16750	
APPROXIMATE TOTAL	35500	

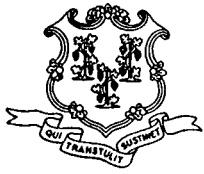


56.580" ACROSS FLATS

BASE P 2 1/2" X 69.000" ROUND (WT. = 2.651 KIPS)
 W/(16) 2.25" ANCHOR BOLTS ON 63.000" B.C. WITH MIN. 6'-0"
 EMBEDMENT INTO PIER (W/NUTS & TEMPLATE PLATE @ BOT.)

Verizon - 305 West Service Road, Hartford 2-21-01





STATE OF CONNECTICUT

CONNECTICUT SITING COUNCIL

Ten Franklin Square, New Britain, CT 06051

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

E-Mail: siting.council@po.state.ct.us

Web Site: www.state.ct.us/csc/index.htm

February 20, 2002

Honorable Eddie A. Perez
Mayor
City of Hartford
Municipal Building
550 Main Street
Hartford, CT 06103

RE: **TS-VER-064-020215** - Cellco Partnership d/b/a Verizon Wireless request for an order to approve tower sharing at an existing telecommunications facility located at 305 West Service Road, Hartford, Connecticut.

Dear Mayor Perez:

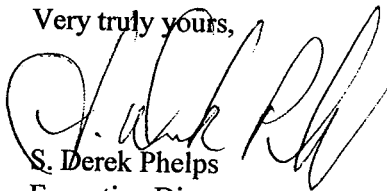
The Connecticut Siting Council (Council) received this request for tower sharing, pursuant to Connecticut General Statutes § 16-50aa.

The Council will consider this item at the next meeting scheduled for March 7, 2002, at 1:30 p.m. in Hearing Room One, Ten Franklin Square, New Britain, Connecticut.

Please call me or inform the Council if you have any questions or comments regarding this proposal.

Thank you for your cooperation and consideration.

Very truly yours,



S. Derek Phelps
Executive Director

SDP/laf

Enclosure: Notice of Tower Sharing

c: Robert A. LaPorte, Chairman of City Plan Com., City of Hartford
Saundra Kee-Borges, City Manager, City of Hartford

ROBINSON & COLE LLP

HARTFORD • STAMFORD • GREENWICH • NEW YORK • BOSTON

LAW OFFICES
www.rc.com

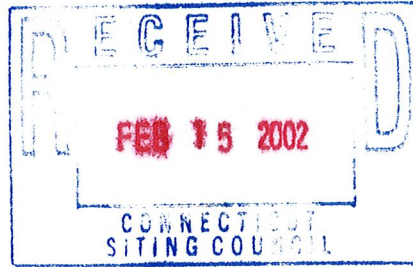
280 Trumbull Street
Hartford, CT 06103-3597
860-275-8200
Fax 860-275-8299

Kenneth C. Baldwin
860-275-8345
kbaldwin@rc.com

February 15, 2002

Via Hand Delivery

Mortimer A. Gelston
Chairman
Connecticut Siting Council
10 Franklin Square
New Britain, CT 06051



Re: **Request of Cellco Partnership d/b/a Verizon Wireless for an Order to Approve the Shared Use of a Tower Facility at 305 West Service Road, Hartford, Connecticut**

Dear Mr. Gelston:

Pursuant to Connecticut General Statutes §16-50aa, as amended, Cellco Partnership d/b/a Verizon Wireless ("Cellco") hereby requests an order from the Connecticut Siting Council ("Council") to approve the proposed shared use by Cellco of an existing SpectraSite tower located at 305 West Service Road, Hartford, Connecticut. Cellco requests that the Council find that the proposed shared use of the tower satisfies the criteria stated in Connecticut General Statutes § 16-50aa and issue an order approving the proposed use.

Background

The SpectraSite tower at 305 West Service Road was constructed pursuant to approvals from the City of Hartford on October 19, 1998. The tower is a 150-foot self-supporting monopole structure within a 50' x 50' facility compound. The tower is currently owned and operated by SpectraSite and is shared by Northcoast, AT&T and Nextel.

Cellco is licensed by the Federal Communications Commission (FCC) to provide cellular wireless telephone service in the State of Connecticut, which includes the area to be served by Cellco's proposed Hartford installation. Cellco and SpectraSite have agreed to the proposed shared use of this tower pursuant to mutually acceptable terms and conditions, and SpectraSite has authorized Cellco to act on its behalf to apply for all necessary local, state and federal permits, approvals, and authorizations which may be required for the proposed shared use of this facility.

Cellco proposes to install twelve (12) panel-type antennas at the 115-foot level on the tower. The radio transmission equipment associated with these antennas would be located in a new 12' x 20' equipment building which would be located near the base of the tower.

C.G.S. § 16-50aa(c)(1) provides that, upon written request for approval of a proposed shared use, "if the council finds that the proposed shared use of the facility is technically, legally, environmentally and economically feasible and meets public safety concerns, the council shall issue an order approving such shared use." The shared use of the tower satisfies those criteria as follows:

A. **Technical Feasibility.** The existing tower is structurally capable of supporting the proposed Cellco antennas. The proposed shared use of this tower therefore is technically feasible. A letter verifying the structural integrity of the existing tower is attached to this filing.

B. **Legal Feasibility.** Under C.G.S. § 16-50aa, the Council has been authorized to issue orders approving the proposed shared use of an existing tower facility such as the facility at 305 West Service Road in Hartford. This authority complements the Council's prior-existing authority under C.G.S. § 16-50p to issue orders approving the construction of new towers that are subject to the Council's jurisdiction. In addition, § 16-50x(a) directs the Council to "give such consideration to other state laws and municipal regulations as it shall deem appropriate" in ruling on requests for the shared use of existing towers facilities. Under the statutory authority vested in the Council, an order by the Council approving the requested shared use would permit the Applicant to obtain a building permit for the proposed installations.

C. **Environmental Feasibility.** The proposed shared use would have a minimal environmental effect, for the following reasons:

1. The proposed installations would have an insignificant incremental visual impact, and would not cause any significant change or alteration in the physical or environmental characteristics of the existing site. In particular, the proposed installations would not increase the height of the existing tower, and would not extend the boundaries of the tower site outside the limits of the existing site compound.
2. The proposed installations would not increase the noise levels at the existing facility by six decibels or more.
3. Operation of Cellco antennas at this site would not exceed the total radio frequency (RF) electromagnetic radiation power density level adopted by the Federal Communications Commission. The "worst-case" exposure calculated for operation of this facility (i.e., calculated at the base of the tower), would be 0.0144 mW/cm² (2.5% of the standard) for Nextel antennas at the 150-foot level; 0.0153 mW/cm² (1.53% of the standard) for

Mortimer A. Gelston

February 15, 2002

Page 3

AT&T antennas at the 137-foot level; and 0.0201 mW/cm^2 (2.0% of the standard) for Northcoast antennas at the 125-foot level. Cellco antennas would add 0.0516 mW/cm^2 (8.85% of the standard), for a total of 14.88% of the standard, as measured for mixed frequency sites.

4. The proposed installations, would not require any water or sanitary facilities, or generate air emissions or discharges to water or sanitary facilities, or generate air emissions or discharges to water bodies. After construction is complete the proposed installations would not generate any traffic other than periodic maintenance visits.

The proposed use of this facility would therefore have a minimal environmental effect, and is environmentally feasible.

E. Economic Feasibility. As previously mentioned, SpectraSite and Cellco have entered into a mutual agreement to share the use of the replacement tower on terms agreeable to the parties. The proposed tower sharing is therefore economically feasible.

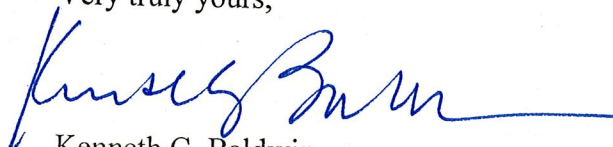
F. Public Safety Concerns. As stated above, the tower will be structurally capable of supporting the Cellco antennas. Cellco is not aware of any public safety concerns relative to the proposed sharing of the existing tower. In fact, the provision of new or improved phone service through shared use of the existing tower is expected to enhance the safety and welfare of area residents.

Conclusion

For the reasons discussed above, the proposed shared use of the existing tower at 305 West Service Road in Hartford, Connecticut satisfies the criteria stated in C.G.S. § 16-50aa and advances the General Assembly's and the Siting Council's goal of preventing the proliferation of towers in Connecticut. The Applicant therefore requests that the Siting Council issue an order approving the proposed shared use.

Thank you for your consideration of this matter.

Very truly yours,



Kenneth C. Baldwin

KCB/kmd

Attachments

cc: Eddie A. Perez, Mayor, City of Hartford
Sandy M. Carter

**Structural Analysis of 180' FWT Monopole**

West Service Road, 305 West Service Road, Hartford, CT 06120

CT-0002

1/29/02

1.0 Introduction

A structural analysis was performed on the above noted tower for the addition of proposed antennas as listed below. The analysis consisted of applying the forces caused by the existing and proposed loads, and determining the resulting stresses in the structure and its foundation.

The following criteria were used in the analysis:

- ANSI/TIA/EIA-222-F 80 mph wind [Hartford County], considering two loading cases:

- Load Case 1. 100% wind pressure, without radial ice
- Load Case 2. 75% wind pressure, with 1/2" radial ice

Information, including geometry and member sizes were obtained from FWT Drawing 18053, dated 09/10/98. The structure is in good condition and capable of supporting its original full design capacity.

2.0 Antenna and Transmission Line Loading

Table 1. Existing and Proposed Antennas

Elevation (Ft. A.G.L.)	Antenna	Carrier	Transmission Lines*	Notes
180	(9) Swedcom ALP-9212-N on Platform Mount	Nextel	(9) 1-1/4"	Existing
137	(9) Allgon 7184 (3) Allgon 7184 on T-Arm Mounts	AT&T	(9) 1-5/8" (3) 1-5/8"	Existing Future
125	(6) DAPA 48010 (3) Ericsson MiniLink 4xT1 on EEI Low Profile Platform Mount (Part No. K11011)	Northcoast	(9) 1-5/8" (3) 3/8"	Existing
115	(12) Decibel DB844H90E-XY (1) Lucent KS24019 On Low Profile Platform Mount	Verizon	(12) 1-5/8"***	Proposed

* Coax installed inside the monopole.

***Refer to attached porthole design drawing.

3.0 Results

Monopole Stress Levels

Elevation (Ft. A.G.L.)	Maximum Stress Ratio*
0.0 to 47.0	0.64
47.0 to 95.0	0.57
95.0 to 144.0	0.50
144.0 to 178.5	0.32

*Maximum Stress Ratio: 1.00=Full Allowable

Foundation Stress Levels

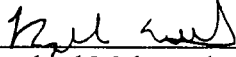
Base Reactions	Reactions	Result
Moment (kip.ft)	2501.4	Satisfactory
Compression (kips)	40.4	Satisfactory
Shear (kips)	22.4	Satisfactory

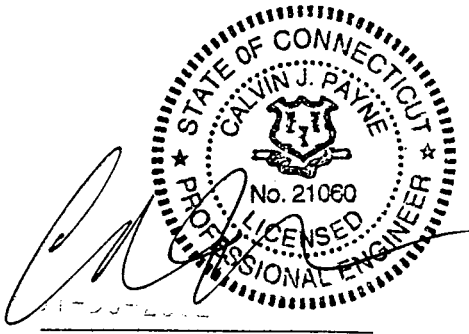
The foundation is structurally adequate to accommodate the existing and proposed loading conditions.

4.0 Conclusions and Recommendations

1. The tower and foundation are structurally adequate to accommodate the existing and proposed antenna and transmission lines loading used in this analysis.
2. Any future changes in loading must be reviewed by the SpectraSite Engineering Department.

Should any questions arise concerning this report please contact the undersigned.


Raphael Mohamed
Structural Engineer


Calvin J. Payne, P.E.
Chief Engineer

CARRIER <u>NEXTEL</u>			
ANTENNA/MOUNT TYPE/CABLE SCHEDULE			
SECTOR	1	2	3
AZIMUTH	0°	180°	270°
CABLE SIZE	1 1/4"	1 1/4"	1 1/4"
NO. OF CABLES	3	3	3
ANTENNA TYPE	PANEL	PANEL	PANEL
MOUNT TYPE	PLATFORM	PLATFORM	PLATFORM

NOTE: 1. No. OF ANTENNA PER SECTOR? 3

CARRIER <u>AT&T</u>			
ANTENNA/MOUNT TYPE/CABLE SCHEDULE			
SECTOR	1	2	3
AZIMUTH	30°	150°	270°
CABLE SIZE	1 5/8"	1 5/8"	1 5/8"
NO. OF CABLES	3	3	3
ANTENNA TYPE	ALLGON	ALLGON	ALLGON
MOUNT TYPE	T-ARM	T-ARM	T-ARM

NOTE: No. OF ANTENNA PER SECTOR? 3

PROPOSED NORTHCOAST COM. LLC

CARRIER <u>NORTHCOAST</u>			
ANTENNA/MOUNT TYPE/CABLE SCHEDULE			
SECTOR	1	2	3
AZIMUTH	0°	120°	240°
CABLE SIZE	1 5/8"	1 5/8"	1 5/8"
NUMBER OF CABLES	2	2	2
ANTENNA TYPE	PANEL	PANEL	PANEL
MOUNT TYPE	PER SCI	PER SCI	PER SCI
ANTENNA MFG.	DAPA	DAPA	DAPA
ANTENNA MODEL	48010	48010	48010
NUMBER OF ANTENNAS	2	2	2

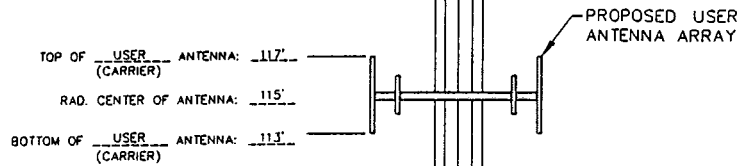
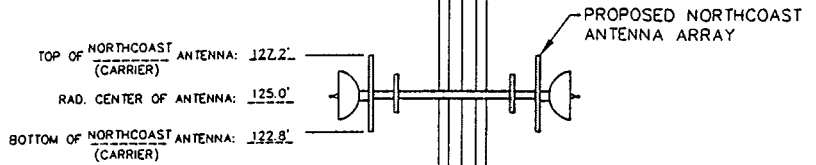
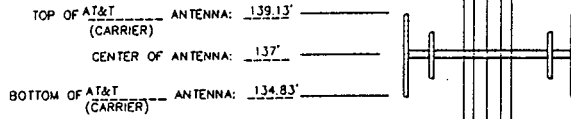
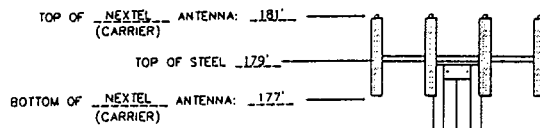
PROPOSED NORTHCOAST COM. LLC

CARRIER <u>NORTHCOAST</u>			
ANTENNA/MOUNT TYPE/CABLE SCHEDULE			
SECTOR	1	2	3
AZIMUTH	TBD	TBD	TBD
CABLE SIZE	3/8" & 1/2"	3/8" & 1/2"	3/8" & 1/2"
NUMBER OF CABLES	2	2	2
ANTENNA TYPE	DISH	DISH	DISH
MOUNT TYPE	PER SCI	PER SCI	PER SCI
ANTENNA MFG.	ERICSSON	ERICSSON	ERICSSON
ANTENNA MODEL	4XT1	4XT1	4XT1
NUMBER OF ANTENNAS	1	1	1

PROPOSED USER

CARRIER <u>USER</u>				
ANTENNA/MOUNT TYPE/CABLE SCHEDULE				
SECTOR	1	2	3	4
AZIMUTH	30°	150°	270°	270°
CABLE SIZE	1 5/8"	1 5/8"	1 5/8"	1"
NUMBER OF CABLES	4	4	4	1
ANTENNA TYPE	PANEL	PANEL	PANEL	PANEL
MOUNT TYPE	13' PLATFORM			
ANTENNA MFG.	DECIBEL	DECIBEL	DECIBEL	LUCENT
ANTENNA MODEL	08844H90E-XY		KS24019	
NUMBER OF ANTENNAS	4	4	4	1

ENTRY/EXIT PORTS						
	ENTRY	EXIT	ENTRY	EXIT	ENTRY	EXIT
HEIGHT (O.C.)	4'		10'			
SIZE	1'x2'		1'x2'			
AZIMUTH (NORTH = 0°)	120°		120°			
			310°			
OCCUPIED (CHECK)						



TOP OF CAISSON ELEVATION = 0"
GROUND ELEVATION (REF 0.0)

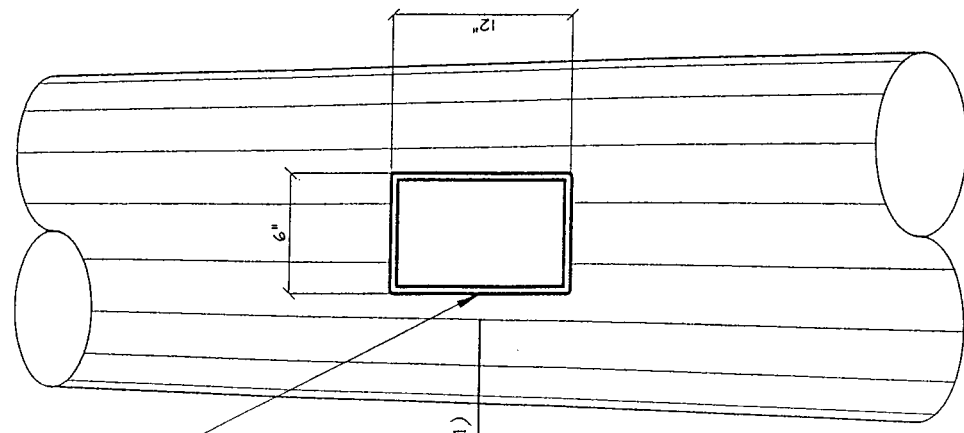
MONOPOLE TOWER ELEVATION
NOT TO SCALE

JOB No.				
DATE:	6/19/00			
REV.	0	4	SPB	REVISE USER COLLO
		3	SPB	USER COLLO
DRAWN	QA/QC	2	JRJ	REVISED NORTHCOAST TOWER INFORMATION
ESR	RSR	1	JRJ	ADD NORTHCOAST COLLO TO SITE
		NO	BY	REVISION
				DATE

SPECTRASITE COMMUNICATIONS
8000 REGENCY PARKWAY, SUITE 570
CARY, NC 27511

HARTFORD
CT-0002

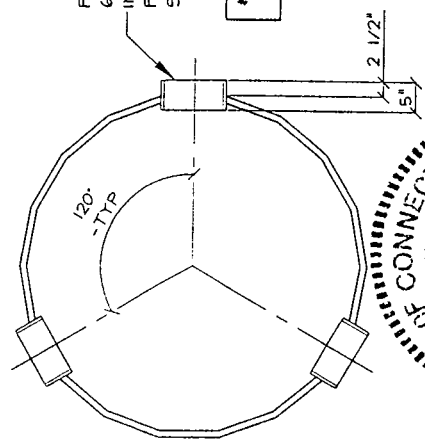
TOWER ELEVATION
SHEET 2 OF 2



VERIZON HANDHOLES
 @ ELEVATION +/- 112'
 (3) 6" x 12" @ 120" (MAXIMUM)
 DIAM. F/F 33.92"
 0.3125" THK

GENERAL NOTES:

1. CONTRACTOR TO VERIFY ALL DIMENSIONS AND CONDITIONS PRIOR TO INSTALLATION.
2. CONTRACTOR MUST PROTECT ALL EXISTING FACILITIES, STRUCTURES, AND TRANSMISSION LINES FROM FIRE AND DAMAGE.
3. CONSTRUCTION TO FOLLOW LOCAL BUILDING CODES, AND ANSI/TIA/EIA-222-F (1996).
4. CONTRACTOR IS RESPONSIBLE TO SUPPLY ADEQUATE BRACING AND/OR SUPPORT FOR THE STRUCTURE DURING INSTALLATION.
5. ALL WELDING MUST BE PERFORMED BY AN AWS CERTIFIED WELDER AND BE IN CONFORMANCE WITH AWS D1.1. CONTRACTOR'S WELDER CERTIFICATION MUST BE PROVIDED FOR APPROVAL TO SPECTRASITE ENGINEERING PRIOR TO COMMENCEMENT OF WORK.



FMT PART NO FM0006
 6" x 12" HANDHOLE (TS 12" x 6" x 1/2" x 5" GRADE 65)
 INSTALL PER THIS SHEET AND STANDARD
 FMT TECHNICAL GUIDELINES.
 SEE ATTACHED.

** MAXIMUM 3 HANDHOLES @ 120"
 120" MINIMUM HORIZONTAL SPACING



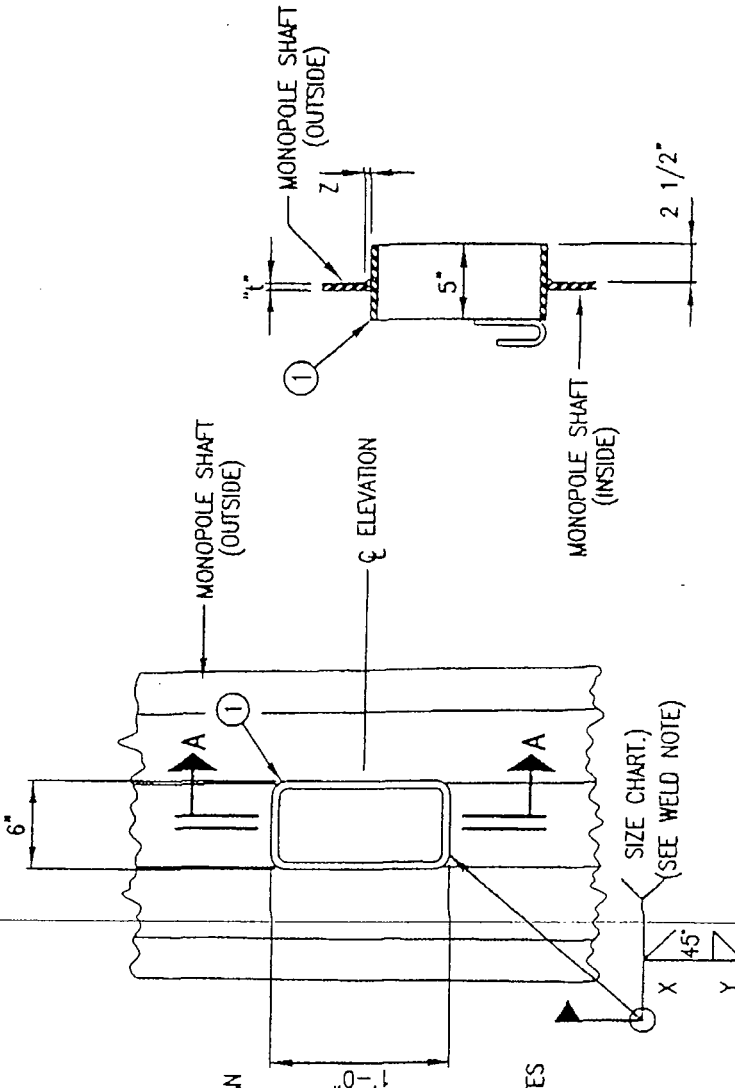
TITLE: PORTHOLE INSTALLATION	
SpectraSite	
CUSTOMER: VERIZON	
PROJECT: 178'-6" FMT MONOPOLE	
SITE: WEST SERVICE, CT	
OWN BY/APPR'D: CCD	DATE: RIM 01/28/02
PROJECT No.: CT-0002	DRAWING SKO

FIELD NOTES:

- 1.) ALL WELDING SHALL BE IN ACCORDANCE WITH AWS D1.1 USING E8018-X OR ER80S-X WIRE.
- 2.) GALVANIZING & GALVANIZING REPAIR IN ACCORDANCE WITH ASTM A123, USING EITHER HOT PATCH OR ZINC RICH PAINT.
- 3.) **CAUTION:** BY CUTTING THE HOLE IN THE SHAFT, YOU ARE WEAKENING THE SHAFT IN THAT AREA UNTIL THE INSTALLATION IS COMPLETE WITH THE PORT WELDED IN PLACE.
CUSTOMER AND CONTRACTOR ARE RESPONSIBLE FOR PROPERLY SUPPORTING THE STRUCTURE DURING INSTALLATION. (i.e. TEMPORARY GUYS, CRANES, ETC.) FWT RECOMMENDS THAT WORK BE PERFORMED UNDER CALM WIND CONDITIONS.
- 4.) NO MORE THAN 2 OR 3 LINE ENTRANCES (HANDHOLES) CAN BE INSTALLED AT ONE ELEVATION PER THE FOLLOWING:
 - A.) MINIMUM POLE DIAMETER IS 14" FOR THREE PORTS.
3-RIM INSTALLATION (TYPICAL 120" SEPARATION).
(MINIMUM 90" SEPARATION).
 - B.) MINIMUM POLE DIAMETER IS 12" FOR TWO PORTS.
2-RIM INSTALLATION (TYPICAL 180" SEPARATION).
(MINIMUM 90" SEPARATION).
 - C.) COMPLETE INSTALLATION ONE PORT AT A TIME.
 - D.) MAINTAIN ONE FOOT VERTICAL SEPARATION BETWEEN EXISTING PORTS, ALL OTHER PENETRATIONS, TOP PLATES AND SLIP AREAS.
- 5.) FWT REQUIRES THIRD PARTY CERTIFIED WELDING INSPECTOR AT TIME OF INSTALLATION.
- 6.) CUSTOMER IS RESPONSIBLE FOR FURNISHING THIRD PARTY INSPECTION REPORT TO FWT FOR APPROVAL BEFORE HANDHOLE INSTALLATION CERTIFICATION IS VALID.

WELD SIZE CHART		
(1) ORIGINAL POLE WALL THICKNESS (IN.)	WELD SIZE (X) (Y)	45° BEVEL (Z)
1/2" (0.5000")	7/16" 1/2"	7/16"
9/16" (0.5625")	1/2" 9/16"	1/2"

BILL OF MATERIAL				
ITEM	MARK NO.	QTY.	DESCRIPTION	WEIGHT/lbs
1	W06123	1	15 12" x 6" x 1/2" x 0'-5" (HAND HOLE RIM)	28.0
2				
3				
4				
5				
TOTAL GALVANIZED WEIGHT/lbs				29.4



ELEVATION VIEW

SECTION "A-A"

REV.	DATE	BY	INIT.	DESCRIPTION
4	02-JAN-01	MGS		REVISED FIELD NOTES
3	25-APR-00	RJS		UPDATED TITLE BLOCK / DRAWING FORMAT
2	1-APR-99	SSS		REVISED FIELD NOTES #1 AND #2
1	28-JUL-97	JD		ADDED WELDMENT CHART/FIELD NOTES

SPECIFIC INFORMATION		DRAWING BY		DATE		INIT.		DESCRIPTION	
6" x 12" HAND HOLE RIM INSTALLATION (006123)		RJS	CHECKED BY:						
Drawing Title		SCALE: 1" = 1'-0"		DATE: 8-JUL-97		SHEET NO.:		SHEET 1 OF 1	
FIELD MODIFICATION		STANDARD		JOB NO.:		DRAWING NO.:		FM0006	

FWT, Inc.
 5750 East I-20
 Fort Worth, Texas 76119 U.S.A.
 (817) 255-3060 FAX (817) 255-8656

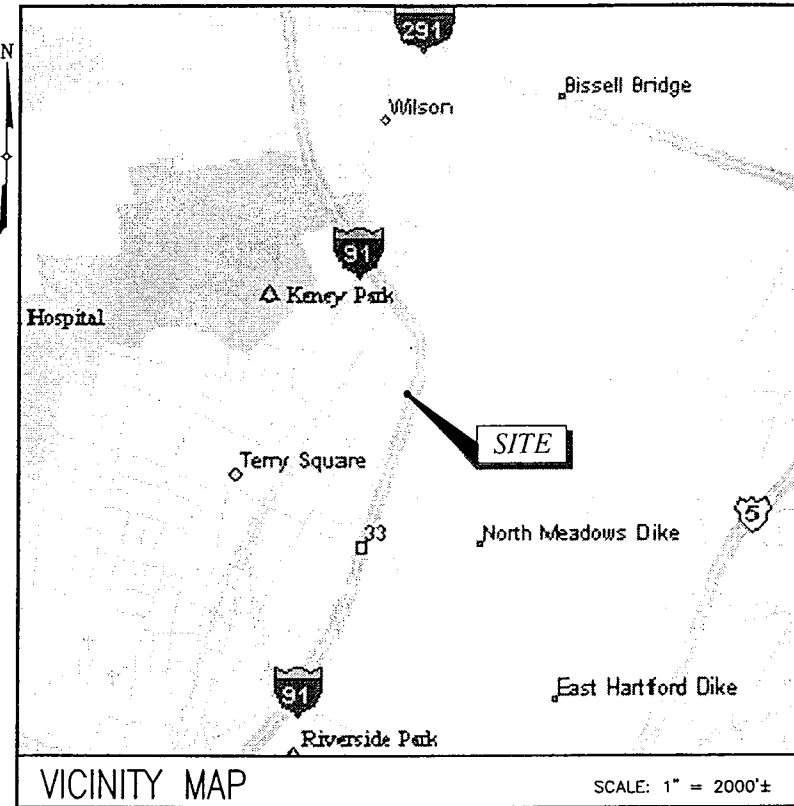
I, PROPRIETARY AND CONFIDENTIAL. THIS DOCUMENT AND THE INFORMATION CONTAINED HEREIN ARE THE SOLE PROPERTY OF FWT, INC. REPRODUCTION OR DISSEMINATION OF THIS DOCUMENT WITHOUT EXPRESS WRITTEN CONSENT OF FWT, INC. IS PROHIBITED.

1359 939-225

BARE WIND LOAD FOR POLE + DIST. APPURTENANCES

Project Name	West Service Road
Job Number	CT-0002
Title	Verizon
Designer	RIM

Pole Section	Top Elev. (ft)	Bott. Elev. (ft)	Mid-section Height (ft)	Section Length (ft)	Avg. O.D. (in)	Dist. Area Appurtenance (ft ² /ft)	Total Wind Area (ft ²)	r Ratio	Kz (ft)	qz (lb/ft ²)	C (mph ft)	Force Coeff. Cf	Horz. Force (kip)	Shear (kip)	Moment (kip ft)
TOP															
A	178.50	170.00	174.25	8.50	20.94	0.00	14.83	0.018	1.61	26.36	177	0.650	0.429	0.00	0.0
B	170.00	160.00	165.00	10.00	22.93	0.00	19.11	0.016	1.58	25.95	192	0.650	0.429	0.43	1.8
C	160.00	150.00	155.00	10.00	25.07	0.00	20.89	0.015	1.56	25.49	208	0.650	0.545	0.97	8.8
D	150.00	144.33	147.17	5.67	26.57	0.00	12.54	0.014	1.53	25.11	219	0.650	0.585	1.56	21.5
E	144.33	140.00	142.17	4.33	27.45	0.00	9.91	0.023	1.52	24.87	225	0.650	0.346	1.91	31.3
F	140.00	130.00	135.00	10.00	28.99	0.00	24.16	0.022	1.50	24.50	236	0.650	0.271	2.18	40.2
G	130.00	120.00	125.00	10.00	31.13	0.00	25.95	0.020	1.46	23.97	251	0.650	0.650	2.83	65.2
H	120.00	110.00	115.00	10.00	33.28	0.00	27.73	0.019	1.43	23.41	265	0.650	0.650	3.51	96.9
I	110.00	100.00	105.00	10.00	35.43	0.00	29.52	0.018	1.39	22.81	279	0.650	0.713	4.22	135.5
J	100.00	94.92	97.46	5.08	36.73	0.00	15.56	0.017	1.36	22.33	286	0.650	0.740	4.96	181.4
K	94.92	90.00	92.46	4.92	37.49	0.00	15.36	0.020	1.34	21.99	290	0.650	0.382	5.34	207.6
L	90.00	80.00	85.00	10.00	39.09	0.00	32.58	0.019	1.31	21.47	298	0.650	0.371	5.71	234.8
M	80.00	70.00	75.00	10.00	41.24	0.00	34.36	0.018	1.26	20.72	309	0.650	0.768	6.48	295.8
N	70.00	60.00	65.00	10.00	43.38	0.00	36.15	0.017	1.21	19.89	319	0.650	0.782	7.27	364.6
O	60.00	50.00	55.00	10.00	45.53	0.00	37.94	0.016	1.16	18.96	327	0.650	0.790	8.05	441.1
P	50.00	46.83	48.42	3.17	46.57	0.00	12.29	0.016	1.12	18.28	328	0.650	0.247	8.84	525.6
Q	46.83	40.00	43.42	6.83	47.26	0.00	26.91	0.016	1.08	17.72	328	0.650	0.524	9.09	554.0
R	40.00	30.00	35.00	10.00	49.07	0.00	40.89	0.015	1.02	16.66	330	0.650	0.748	9.62	618.0
S	30.00	20.00	25.00	10.00	51.22	0.00	42.68	0.015	1.00	16.38	341	0.650	0.768	10.36	717.9
T	20.00	10.00	15.00	10.00	53.36	0.00	44.47	0.014	1.00	16.38	356	0.650	0.800	11.13	825.3
U	10.00	0.00	5.00	10.00	55.51	0.00	46.26	0.014	1.00	16.38	370	0.650	0.833	11.93	940.7
V	10.00	0.00	5.00	10.00	55.51	0.00	46.26	0.014	1.00	16.38	370	0.650	0.833	12.76	1064.2



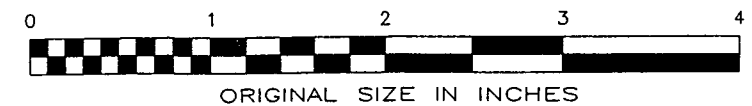
SITE NAME:

HARTFORD NORTH

305 WEST SERVICE ROAD
HARTFORD, CT 06120
HARTFORD COUNTY

PROJECT INDEX

SITE NAME: HARTFORD NORHT
 PROJECT #: 01011050630
 LOCATION CODE: 1700322213
 SITE ADDRESS: 305 WEST SERVICE ROAD
 HARTFORD, CT 06120
 HARTFORD COUNTY
 PROPERTY OWNER: 305 WEST SERVICE ROAD ASSOCIATES LLC
 APPLICANT: VERIZON WIRELESS
 99 EAST RIVER DRIVE
 EAST HARTFORD, CT
 JURISDICTION: CITY OF HARTFORD
 CURRENT ZONING: I-2 - INDUSTRIAL ZONE
 TAX IDENTIFICATION: MAP 658, BLOCK 1, LOT 14
 SITE COORDINATES: CENTER OF TOWER
 LATITUDE: 41° 47' 57.98" N (NAD 27)
 LONGITUDE: 72° 39' 25.78" W (NAD 27)
 ELEVATION: 19' (NGVD 29)



HARTFORD NORTH
 PROJECT #: 01011050630
 LOCATION CODE: 1700322213
 305 WEST SERVICE ROAD
 HARTFORD, CT 06120

NO.	DATE	REVISIONS	BY	CHK	APP'D
A	2/6/02	ISSUED FOR COMMENT	WRB		

SCALE: NONE DESIGNED BY: JDF DRAWN BY: WRB

VERIZON WIRELESS
 99 EAST RIVER DRIVE
 EAST HARTFORD, CT

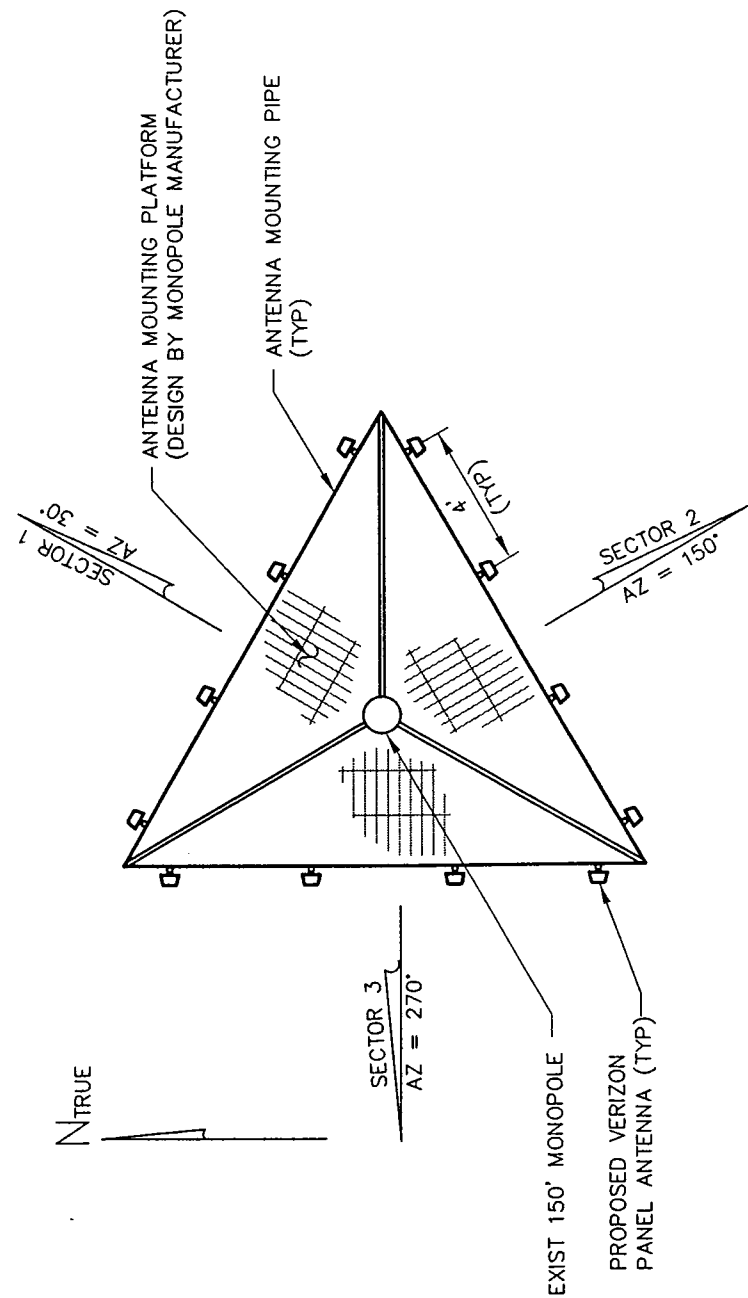
TECTONIC/KEYES ASSOCIATES

1344 SILAS DEANE HIGHWAY, SUITE 500
 ROCKY HILL, CT 06067-1349

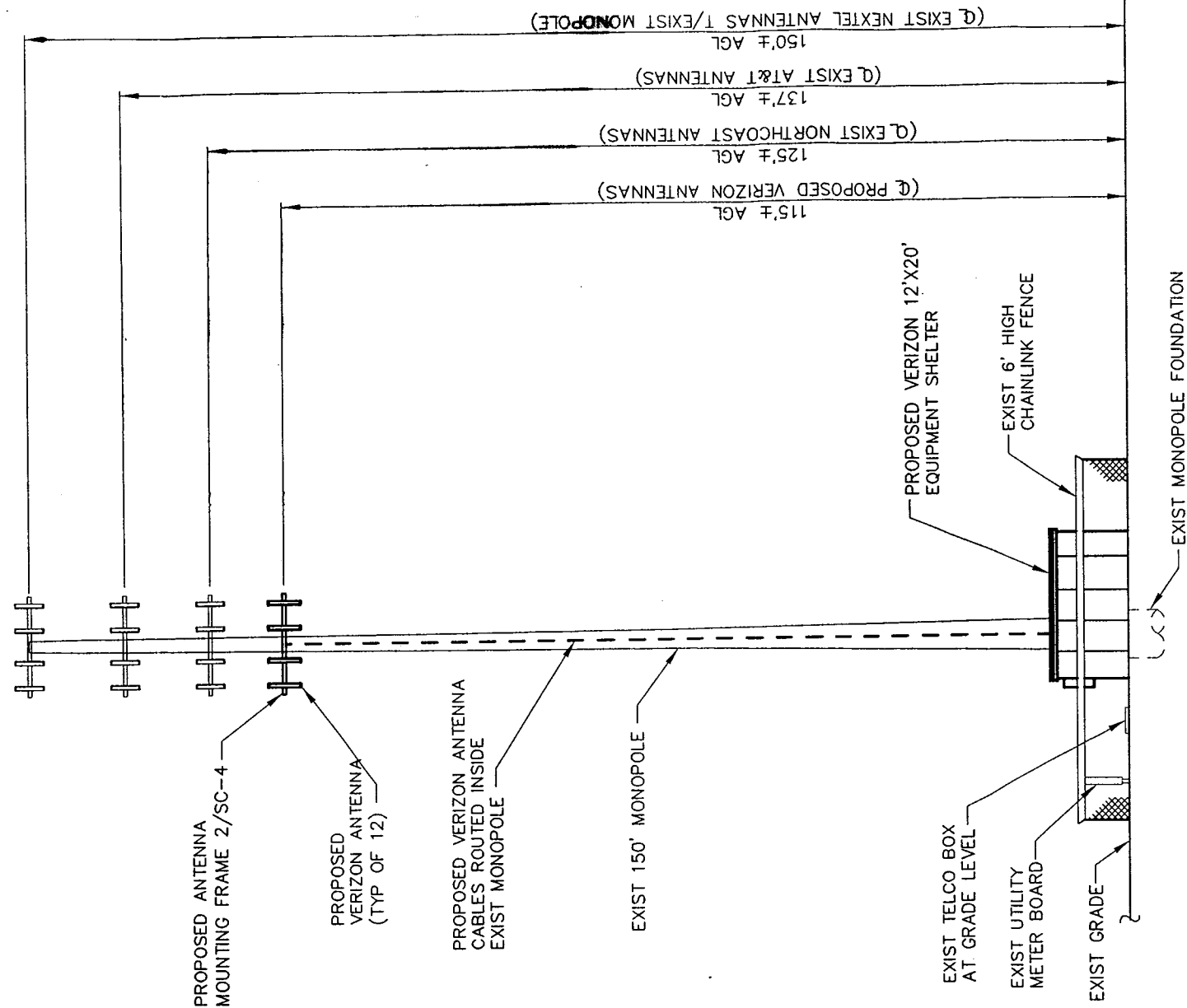
OFFICE: (860)563-2341
 FAX: (860)257-4892

SITE PLAN

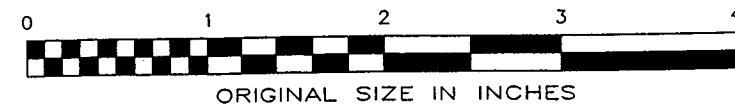
DATE	WORK ORDER NO.	DRAWING NUMBER	REV
2/6/02	2994.HART	SC-1	A



2 ANTENNA MOUNTING PLAN
SCALE: 1" = 5'



1 ELEVATION
SCALE: 1" = 20'



HARTFORD NORTH
PROJECT #: 01011050630
LOCATION CODE: 1700322213
305 WEST SERVICE ROAD
HARTFORD, CT 06120

NO.	DATE	REVISIONS	BY	CHK	APP'D
A	2/6/02	ISSUED FOR COMMENT	WRB		

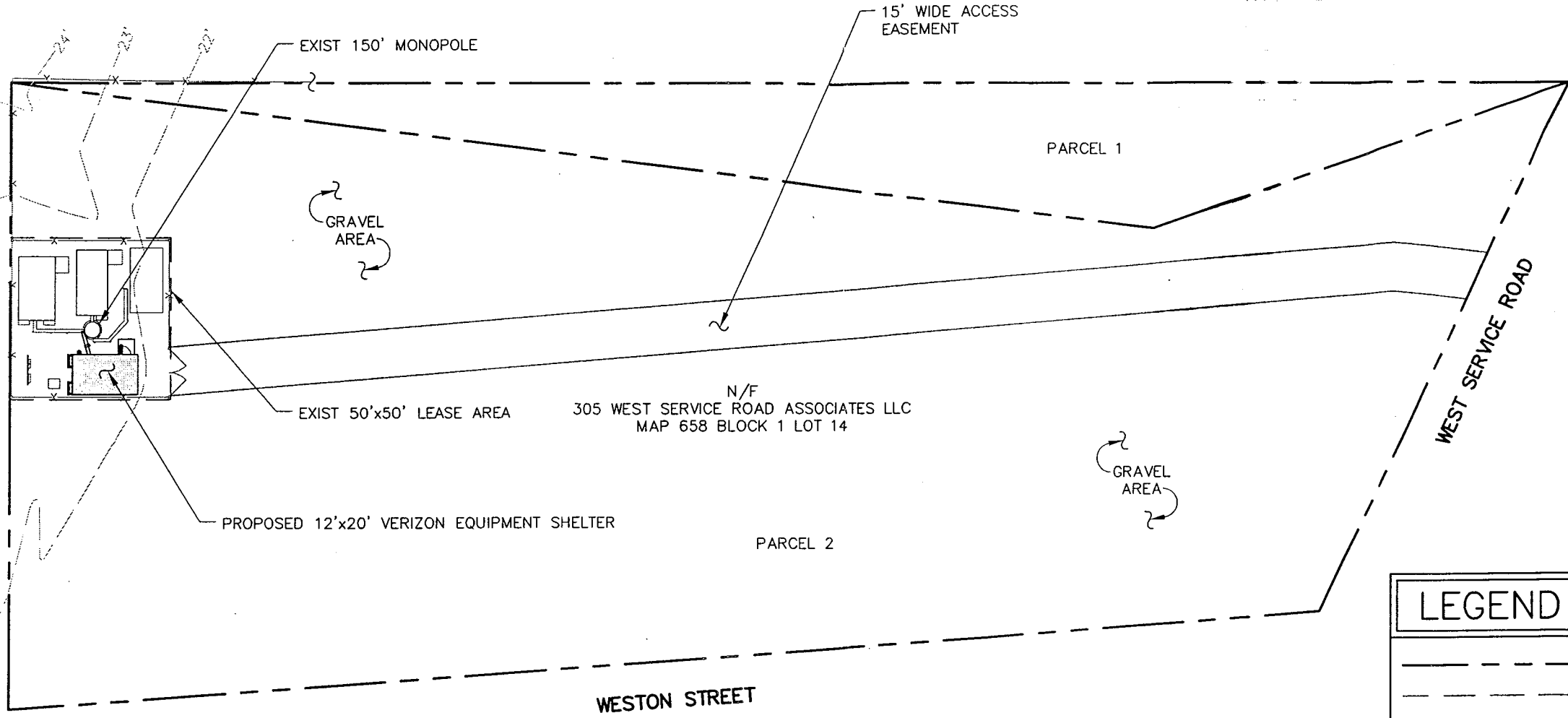
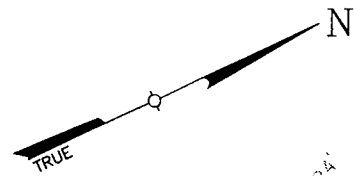
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TECTONIC/KEYES ASSOCIATES
1344 SILAS DEANE HIGHWAY, SUITE 500 OFFICE: (860)563-2341
ROCKY HILL, CT 06067-1349 FAX: (860)257-4882

SITE PLAN

DATE	WORK ORDER NO.	DRAWING NUMBER	REV
2/6/02	2994.HART	SC-4	A



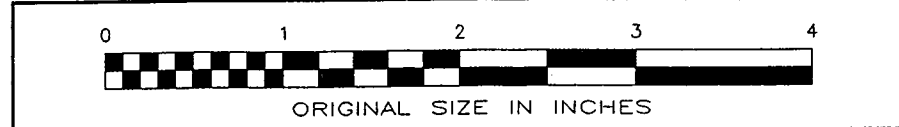
N/F
305 WEST SERVICE ROAD ASSOCIATES LLC
MAP 658 BLOCK 1 LOT 14

LEGEND	
	PROPERTY LINE
	EXIST LEASE AREA
	EXIST CHAINLINK FENCE
	EXIST CONTOUR

1
SC-2

PLOT PLAN

SCALE: 1"=40'



HARTFORD NORTH
PROJECT #: 01011050630
LOCATION CODE: 1700322213
305 WEST SERVICE ROAD
HARTFORD, CT 06120

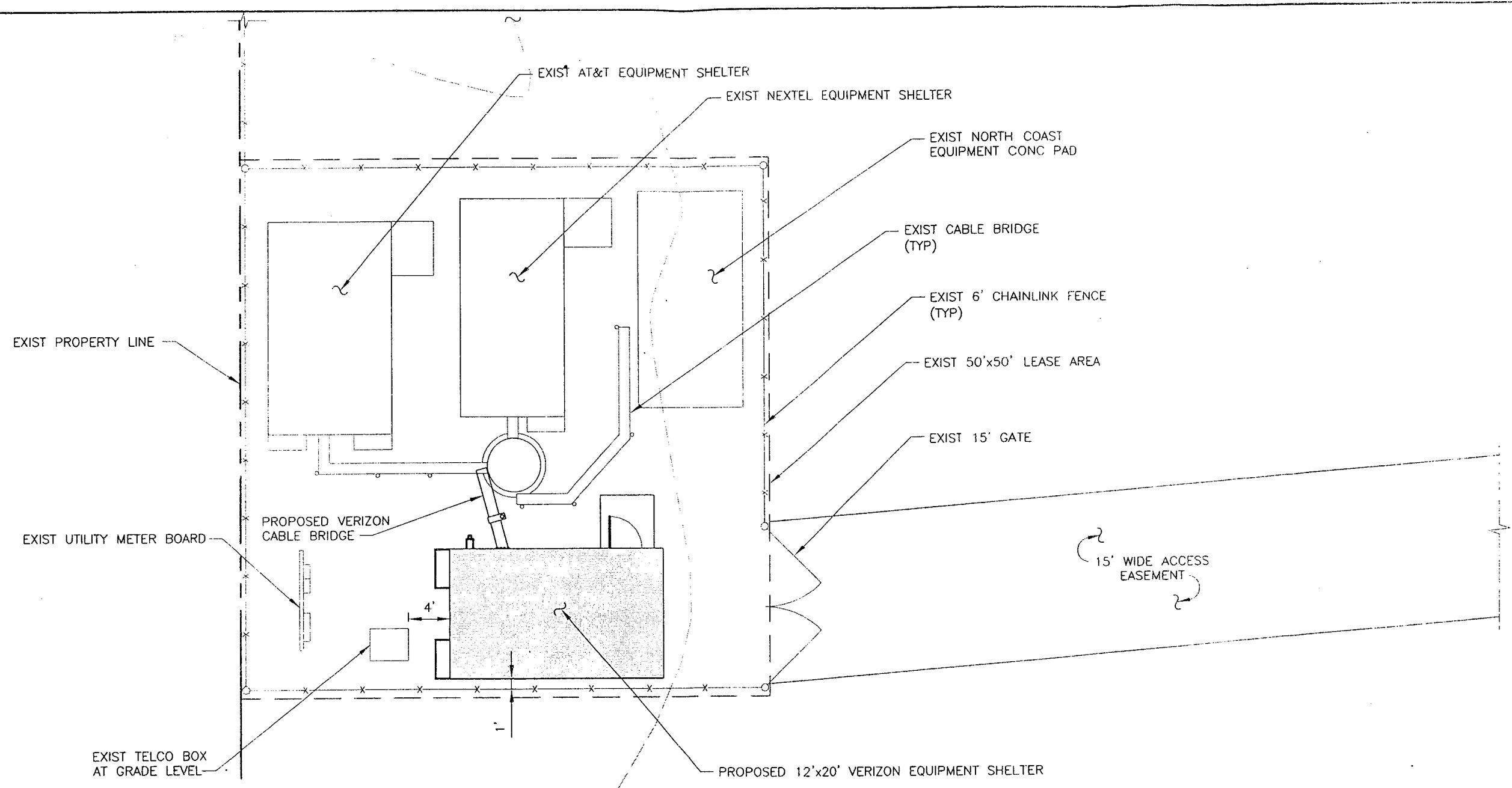
NO.	DATE	REVISIONS	BY	CHK	APP'D
A	2/6/02	ISSUED FOR COMMENT	WRB		
SCALE: NONE		DESIGNED BY: JDF	DRAWN BY: WRB		

VERIZON WIRELESS
99 EAST RIVER DRIVE
EAST HARTFORD, CT

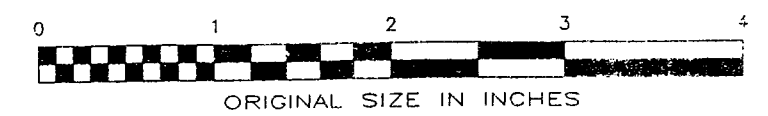
TECTONIC/KEYES ASSOCIATES
1344 SILAS DEANE HIGHWAY, SUITE 500
ROCKY HILL, CT 06067-1349
OFFICE: (860)563-2341
FAX: (860)257-4882

SITE PLAN

DATE	WORK ORDER NO.	DRAWING NUMBER	REV
2/6/02	2994.HART	SC-2	A



1 SITE PLAN
 SC-3 SCALE: 1"=10'



HARTFORD NORTH
 PROJECT #: 01011050630
 LOCATION CODE: 1700322213
 305 WEST SERVICE ROAD
 HARTFORD, CT 06120

NO.	DATE	REVISIONS	BY	CHK	APP'D
A	2/6/02	ISSUED FOR COMMENT	WRB		

SCALE: NONE DESIGNED BY: JDF DRAWN BY: WRB

verizon wireless
 VERIZON WIRELESS
 99 EAST RIVER DRIVE
 EAST HARTFORD, CT

TECTONIC/KEYES ASSOCIATES

1344 SILAS DEANE HIGHWAY, SUITE 500 OFFICE: (860)553-2341
 ROCKY HILL, CT 06067-1349 FAX: (860)237-4882

SITE PLAN

DATE	WORK ORDER NO.	DRAWING NUMBER	REV
2/6/02	2994.HART	SC-3	A