STATE OF CONNECTICUT

CONNECTICUT SITING COUNCIL

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

July 26, 2001

Christopher B. Fisher, Esq.
Cuddy & Feder & Worby LLP
90 Maple Avenue
White Plains, NY 10601-5196

RE: **TS-AT&T-034-010711** - AT&T Wireless PCS LLC request for an order to approve tower sharing at an existing telecommunications facility located at 48 Newtown Road, Danbury, Connecticut.

Dear Attorney Fisher:

At a public meeting held July 25, 2001, 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 July 10, 2001, and July 17, 2001.

Thank you for your attention and cooperation.

Very truly yours,

Mortimer A. Gelston
Chairman

MAG/RKE/laf

c: Honorable Gene F. Eriquez, Mayor, City of Danbury
Dennis Elpern, City Planner, City of Danbury
Sandy M. Carter, Verizon Wireless
Peter W. van Wilgen, SNET Mobility LLC
Ronald C. Clark, Nextel Communications, Inc.

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CUDDY & FEDER & WORBY LLP

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MARYANN M. PALERMO
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LOUIS R. TAFFERA

July 17, 2001

VIA FAX
Mr. Joel Rinebold
Executive Director
Connecticut Siting Council
10 Franklin Square
New Britain, Connecticut 06051

Re: Tower Sharing Request By AT&T
48 Newtown Road, Danbury, Connecticut

Dear Mr. Rinebold:

In furtherance of AT&T's recently (re)submitted tower sharing request with respect to the above referenced matter, enclosed please find a reverified structural analysis dated July 10, 2001. As you know, the antenna mounting detail changed to address the Council's initial decision on AT&T's tower sharing request. While no structural impacts were anticipated from the redesign, we nevertheless requested updated information from AT&T's structural engineers and are submitting a copy for your records. Please do not hesitate to contact me should you or the Council require any additional information.

Very truly yours,

Christopher B. Fisher

Enclosure

C&F&W:

MANZI ENGINEERING
3 CIFRE LANE
PLAISTOW, NH 03865
(603) 382-6219
(603) 382-0523 (fax)

SPECIALIZING IN TELECOMMUNICATIONS RELATED STRUCTURAL ENGINEERING

July 10, 2001

Natcomm, L.L.C.
63-2 North Branford Road
Branford, CT 06405
Attn: Jason Pintek

Dear Jason,

Per your recent request I am providing you with this revised cover letter for the analysis of the existing 100 ft "Engineered Endeavors " monopole located in Danbury, CT (also referred to as "Germantown). This analysis considers the addition of 3 EMS RR90-17 panels cluster mounted 10 ft above the top of the existing pole with the associated coax run down the outside of the pole.

This analysis was done in accordance with the EIA/TIA-222-F "Structural Standards for Steel Antenna Towers and Antenna Supporting Structures". Wind loads were generated for a basic design wind speed of 85 mph and a loading combination that included 1/2" of radial ice as is required for Fairfield, County.

All pertinent pole loading information was taken from the February 5, 2001 CSB Communications tower inventory report as supplied by you and are assumed to be correct. All pole structural properties and existing foundation information are as supplied by NATCOMM LLC.

PROPOSED FINAL CONFIGURATION:

- 3 new EMS RR90-17 panels at 108'-0" agl on new 4 ½" top mounted E.E.I. pipe mount
- 12 existing Allgon 7120.16 panels centered on existing 10'-8" E.E.I. top platform
- 12 existing Allgon 7129.16 panels centered on existing 12'-0" E.E.I. platform @ 88'-0" agl
- 12 existing DB844H90 panels centered on existing 14'-0" Summit platform @ 78'-0" agl
- 6 new runs of 1 ¼" coax run down outside of pole

Based on my investigation your addition of 3 EMS RR90-17 panels and associated coax as listed within this report will meet all the structural requirements of the EIA/TIA-222 –F "Structural Standards for Steel Antenna Towers and Antenna Supporting Structures".

Any changes in antenna type, platform type or routing of coax could affect the validity of this analysis and should be reevaluated.

I appreciate this opportunity to assist you and look forward to working with you in the future. If you have any questions please call me at (603) 382-6219.

Sincerely,

Anthony P. Manzi
Professional Engineer

STATE OF CONNECTICUT
ANTHONY P. MANZI
No. 14291
LICENSED PROFESSIONAL ENGINEER
7/10/01

MANZI ENGINEERING
3 CIFRE LANE
PLAISTOW, NH 03865
(603) 382-6219
(603) 382-0523 (fax)

SPECIALIZING IN TELECOMMUNICATIONS RELATED STRUCTURAL ENGINEERING

February 19, 2001

Natcomm, L.L.C.
63-2 North Branford Road
Branford, CT 06405
Attn: Jason Pintek

Dear Jason,

Per your recent request I am providing you with the enclose analysis of the existing 100 ft "Engineered Endeavors " monopole located in Danbury, CT (also referred to as "Germantown). This analysis considers the addition of 3 EMS RR90-17 panels cluster mounted 10 ft above the top of the existing pole with the associated coax run down the outside of the pole.

This analysis was done in accordance with the EIA/TIA-222-F "Structural Standards for Steel Antenna Towers and Antenna Supporting Structures". Wind loads were generated for a basic design wind speed of 85 mph and a loading combination that included 1/2" of radial ice as is required for Fairfield, County.

All pertinent pole loading information was taken from the February 5, 2001 CSB Communications tower inventory report as supplied by you and are assumed to be correct. All pole structural properties and existing foundation information are as supplied by NATCOMM LLC.

PROPOSED FINAL CONFIGURATION:

- 3 new EMS RR90-17 panels at 110'-0" agl
- 12 existing Allgon 7120.16 panels centered on existing 10'-8" E.E.I. top platform
- 12 existing Allgon 7129.16 panels centered on existing 12'-0" E.E.I. platform @ 88'-0" agl
- 12 existing DB844H90 panels centered on existing 14'-0" Summit platform @ 78'-0" agl
- 6 new runs of 1 ¼" coax run down outside of pole

Based on my investigation your addition of 3 EMS RR90-17 panels and associated coax as listed within this report will meet all the structural requirements of the EIA/TIA-222 –F "Structural Standards for Steel Antenna Towers and Antenna Supporting Structures".

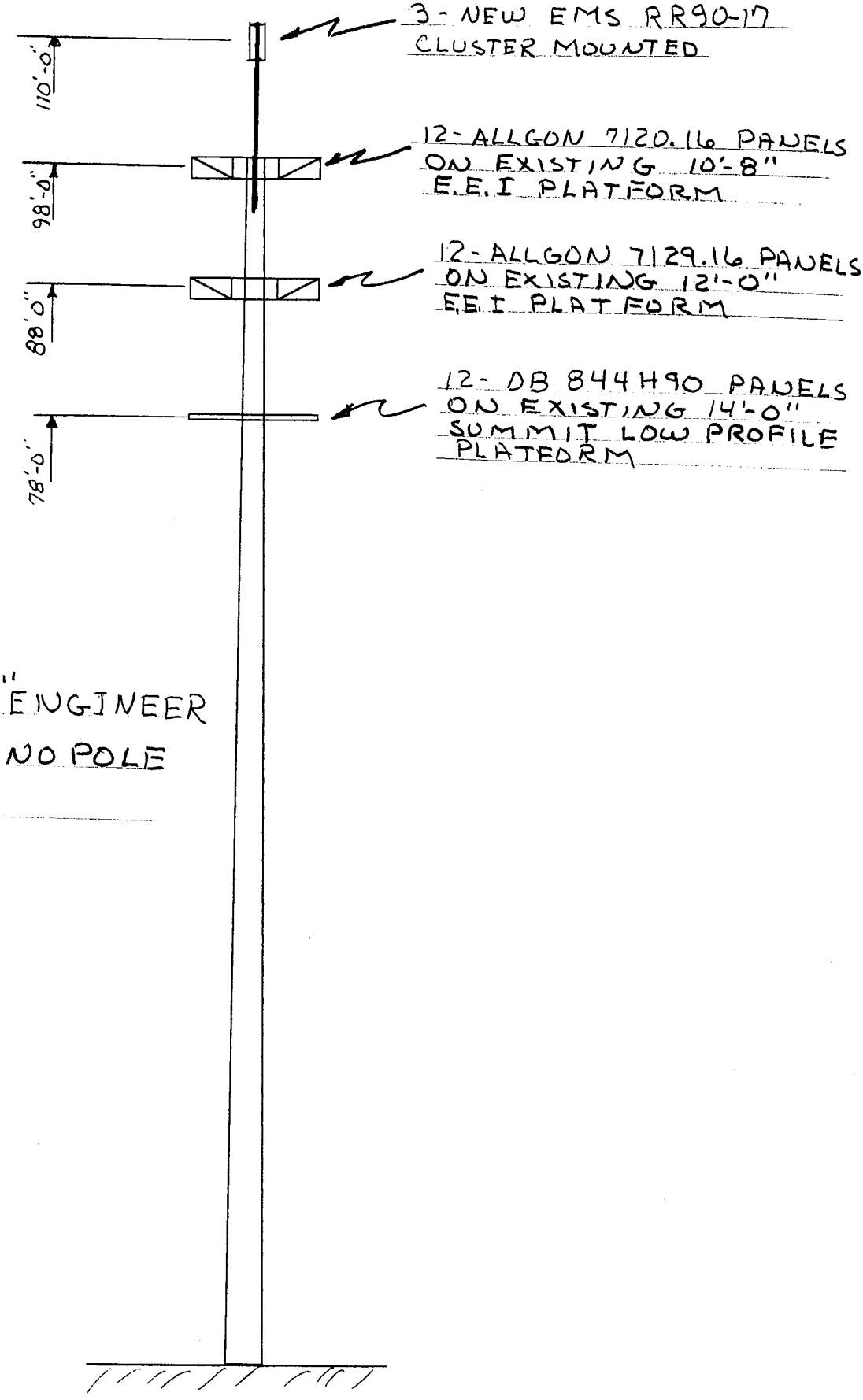
Any changes in antenna type, platform type or routing of coax could affect the validity of this analysis and should be reevaluated.

I appreciate this opportunity to assist you and look forward to working with you in the future. If you have any questions please call me at (603) 382-6219.

Sincerely,

Anthony P. Manzi, P.E.
Professional Engineer

STATE OF CONNECTICUT
ANTHONY P. MANZI
LICENSED
PROFESSIONAL ENGINEER



EXISTING 100'-0" "ENGINEER ENDEAVORS" MONOPOLE
+NBURY, CT

GERMANTOWN/DANBURY,CT
WIND LOADS 100 FT MONOPOLE

JOINT	HGT	MEMBER	DIAM	AVG DIAM	THK	Cf	Gh	V(mph)	Kz	Qz	F(psf)	W(plf)
10	96	10	17.50	14.50	0.2500	0.72	1.69	85	1.36	25.09	30.54	36.90
9	88	9	19.18	18.34	0.2500	0.72	1.69	85	1.34	24.79	30.17	46.10
8	78	8	21.37	20.28	0.2500	0.72	1.69	85	1.30	24.07	29.29	49.49
7	68	7	23.37	22.37	0.2500	0.72	1.69	85	1.25	23.21	28.24	52.64
6	58	6	25.47	24.42	0.2500	0.72	1.69	85	1.20	22.25	27.07	55.09
5	48	5	27.56	26.52	0.2500	0.72	1.69	85	1.14	21.18	25.77	56.94
4	36	4	29.45	28.51	0.3125	0.72	1.69	85	1.07	19.82	24.11	57.27
3	24	3	31.97	30.71	0.3125	0.72	1.69	85	1.00	18.50	22.51	57.60
2	12	2	34.48	33.23	0.3125	0.72	1.69	85	1.00	18.50	22.51	62.31
1	0	1	37.00	35.74	0.3125	0.72	1.69	85	1.00	18.50	22.51	67.03

STANDARD APPURTENANCE LOADS

APPURTENANCE	QUANTITY	AVG HGT	AREA	Ca	POLE Gh	V(mph)	Kz	Qz	P(lbs)
EMS RR90-17	3	110.0	3.10	2.0	1.69	85.0	1.41	26.09	820
4.5" O.D. Mount Pipe	1	105.0	3.75	1.2	1.69	85.0	1.39	25.75	196
ALLGON 7120.16	12	100.0	3.70	1.4	1.69	85.0	1.37	25.39	2667
10'-8" STD. E.E.I. PLATFORM	1	100.0	16.00	2.0	1.69	85.0	1.37	25.39	1373
ALLGON 7129.16	12	90.0	4.50	1.4	1.69	85.0	1.33	24.64	3148
12' STD. E.E.I. PLATFORM	1	90.0	4.88	1.2	1.69	85.0	1.33	24.64	244
DB844H90E-XY	12	80.0	2.83	1.4	1.69	85.0	1.29	23.82	1914
14' SUMMIT LOW PROFILE PLATFOI	1	80.0	4.08	2.0	1.69	85.0	1.29	23.82	328
WITH 1/2" ICE									
EMS RR90-17	3	110.0	3.30	2.0	1.69	74.0	1.41	19.77	662
4.5" O.D. Mount Pipe	1	105.0	4.58	1.2	1.69	74.0	1.39	19.51	181
ALLGON 7120.16	12	100.0	3.98	1.4	1.69	74.0	1.37	19.24	2174
10'-8" STD. E.E.I. PLATFORM	1	100.0	22.00	2.0	1.69	74.0	1.37	19.24	1431
ALLGON 7129.16	12	90.0	5.15	1.4	1.69	74.0	1.33	18.67	2730
12' STD. E.E.I. PLATFORM	1	90.0	22.00	1.2	1.69	74.0	1.33	18.67	833
DB844H90E-XY	12	80.0	3.23	1.4	1.69	74.0	1.29	18.05	1656
14' SUMMIT LOW PROFILE PLATFOI	1	80.0	5.25	2.0	1.69	74.0	1.29	18.05	320

WIND LOADS 1 5/8" COAX

HGT	DIAM	Ca	Gh	V(mph)	Kz	Qz	F(psf)	W(plf)
96	2.00							
88	2.00	1.20	1.69	85	1.34	24.79	50.28	8.38
78	2.00	1.20	1.69	85	1.30	24.07	48.82	8.14
68	2.00	1.20	1.69	85	1.25	23.21	47.06	7.84
58	2.00	1.20	1.69	85	1.20	22.25	45.12	7.52
48	2.00	1.20	1.69	85	1.14	21.18	42.95	7.16
36	2.00	1.20	1.69	85	1.07	19.82	40.19	6.70
24	2.00	1.20	1.69	85	0.97	18.00	36.50	6.08
12	2.00	1.20	1.69	85	0.84	15.55	31.55	5.26

INPUT JOINT LOADS

FX (10) = 0.280 + 0.196 + 2.27 + 1.37 = 4.66

MZ (10) = 0.82(10) + 0.196(5) + (2.27 + 1.37)(1.75) = 15.55

FY (10) = 2.5

FX (9) = 3.15 + 0.24 = 3.39

FY (9) = 2.5

FX (8) = 1.91 + 0.33 = 2.24

FY (9) = 1.5

ALLOWABLE BENDING & AXIAL STRESS

PER EIA-22-F, TABLE 5

$$F_B = 0.6F_Y$$

FOR COMPACT SECTIONS. FOR 12-SIDED POLES TO BE COMPACT;

$$w/t \le 215/\sqrt{F_Y} = 26.67$$

BASE SECTION GR-65 37" DIA THK = 0.3125

$$w = 2\sin O(R) = 2(\sin 11.25)(18.5) = 7.23$$
$$w/t = 7.23/0.3125 = 23.14$$
$$23.14 < 26.67 \Rightarrow Compact$$
$$\therefore F_B = 0.60(F_Y)(1.33) = 51.87ksi$$

TOP SECTION GR-65 27.98" DIA THK = 0.25

$$w = 2\sin O(R) = 2(\sin 11.25)(27.98/2) = 5.46$$
$$w/t = 5.46/0.25 = 21.83$$
$$21.83 < 26.67 \Rightarrow Compact$$
$$\therefore F_B = 0.60(F_Y)(1.33) = 51.87ksi$$

∴ ACTUAL MAX = 47.0 OK

ICE LOADING

NOTE EIA 2.3.16

(DEAD WEIGHT) + (WIND LOAD) > (DEAD WEIGHT) + (.75)(WIND LOAD ON STRUCTURE WITH ½" OF ICE) + (WEIGHT OF ICE)

FOUNDATION:

ORIGINAL FOUNDATION DESIGN LOADS ARE EQUAL TO OR SLIGHTLY HIGHER THAN PROPOSED CONFIRGURATION LOADS THEREFOR FOUNDATION SHOULD BE ADAQUATE.

	ORIGINAL	PROPOSED
DOWNLOAD	15.3 K	15.5 K
SHEAR	17.5 K	16.4 K
O.T.M.	1379.3 FT-K	1271.6 FT-K

100 FT E.E.I. MONOPOLE

GERMENTOWN/DANBURY,CT

FOR NATCOMM, LLC

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*** DAST message *** Input  File = C:\dast\files\danbury\danbury.INP
                     Output File = C:\dast\files\danbury\danbury.OUT


 DAST 100 FT EEI MAST F-85mph DANBURY, CT
 *  THIS IS A 100 FT EEI MAST @ DANBURY CT
 TYPE PLANE FRAME
 NUMBER OF JOINTS 50
 NUMBER OF GROUPS 1
 NUMBER OF LOADINGS 1
 UNIT FEET KIP
 JOINT COORD
 1 0.00 0.00 0.00 TO 5 0.00 48.00 0.00
 6 0.0 58.0 0.0 TO 10 0.0 98.0 0.0
 SUPPORT
 1 FIXED
 ELEMENT GROUP 1
 TYPE BEAM
 NUMBER OF ELEMENTS 9
 ELEMENT INCI
 *  MAST SEGMENTS (10 FT)
 1 1 2 TO 9 1 1
 UNIT INCH KIP
 CONSTANTS
 E 29000.0 ALL
 ELEMENT PROPERTIES
 *  MAST SECTION PROPERTIES
```

```
 1 AX 36.02 IZ 6060.32 SZ 327.59
 2 AX 33.54 IZ 4895.37 SZ 283.95
 3 AX 31.08 IZ 3893.88 SZ 243.60
 4 AX 28.61 IZ 3036.10 SZ 206.19
 5 AX 26.14 IZ 2317.19 SZ 172.03
 6 AX 19.81 IZ 1574.99 SZ 123.67
 7 AX 18.16 IZ 1213.43 SZ 103.84
 8 AX 16.51 IZ 911.93 SZ 85.75
 9 AX 14.87 IZ 666.08 SZ 69.46
UNIT FEET KIP
LOADING 1 WIND LOADS ON STRUCTURE
*  TOP PLATFORM WITH 12 ALLGON PANEL ANTENNAS & TOP MOUNTED EMS
JOINT LOAD
10 FX 4.66
10 MZ -15.55
10 FY -2.50
* PLATFORMS 88 FT & AT 78 FT
JOINT LOAD
9 FX 3.39
9 FY -2.5
8 FX 2.24
8 FY -1.5
*  WIND LOADS ON MAST
ELEMENT LOAD GROUP 1
1 UNIF FY -0.0670
2 UNIF FY -0.0675
3 UNIF FY -0.0637
4 UNIF FY -0.0640
5 UNIF FY -0.0641
6 UNIF FY -0.0626
7 UNIF FY -0.0605
8 UNIF FY -0.0576
9 UNIF FY -0.0546
*  MAST DEAD WEIGHT
JOINT LOADS
*  1 FY -1.515
2 FY -1.437
3 FY -1.333
4 FY -1.227
5 FY -1.121
6 FY -0.849
7 FY -0.779
8 FY -0.708
9 FY -0.638
10 FY -0.581
REDUCE BANDWIDTH
PERFORM ANALYSIS PDELTA

* Memory information:
  Required:          4 K (estimate)
  Available:     30500 K
  Available
```

JOINT INFORMATION

JOINT	COORDINATES (FEET) X	Y	Z	BOUNDARY CONDITIONS TRANSLATION X	Y	Z	ROTATION X	Y	Z
1	0.00000	0.00000	0.00000	1	1	1	1	1	1
2	0.00000	12.00000	0.00000	0	0	1	1	1	0
3	0.00000	24.00000	0.00000	0	0	1	1	1	0
4	0.00000	36.00000	0.00000	0	0	1	1	1	0
5	0.00000	48.00000	0.00000	0	0	1	1	1	0
6	0.00000	58.00000	0.00000	0	0	1	1	1	0
7	0.00000	68.00000	0.00000	0	0	1	1	1	0
8	0.00000	78.00000	0.00000	0	0	1	1	1	0
9	0.00000	88.00000	0.00000	0	0	1	1	1	0
10	0.00000	98.00000	0.00000	0	0	1	1	1	0

ELEMENT GROUP 1 TYPE BEAM (KIP FEET) 9 ELEMENTS

ELEM	INCIDENCE START	INCIDENCE END	DENSITY	ELASTIC MODULUS	SHEAR MODULUS	BETA ANGLE	THERMAL COEFFICIENT	RELEASES START	RELEASES END
1	1	2	0.000	4.176E+06	1.670E+06	0.00	0.000E+00	000000	000000
2	2	3	0.000	4.176E+06	1.670E+06	0.00	0.000E+00	000000	000000
3	3	4	0.000	4.176E+06	1.670E+06	0.00	0.000E+00	000000	000000
4	4	5	0.000	4.176E+06	1.670E+06	0.00	0.000E+00	000000	000000
5	5	6	0.000	4.176E+06	1.670E+06	0.00	0.000E+00	000000	000000
6	6	7	0.000	4.176E+06	1.670E+06	0.00	0.000E+00	000000	000000
7	7	8	0.000	4.176E+06	1.670E+06	0.00	0.000E+00	000000	000000
8	8	9	0.000	4.176E+06	1.670E+06	0.00	0.000E+00	000000	000000
9	9	10	0.000	4.176E+06	1.670E+06	0.00	0.000E+00	000000	000000

ELEMENT GROUP 1 TYPE BEAM (FEET) 9 ELEMENTS

ELEM	SECTION TYPE	AXIAL/SHEAR AREA AX / AY / AZ	TORSION/BENDING INERTIA IX / IY / IZ	SECTION MODULUS - / SY / SZ
1	NONTABULAR	2.501E-01	0.000E+00	
		0.000E+00	0.000E+00	0.000E+00
		0.000E+00	2.923E-01	1.896E-01
2	NONTABULAR	2.329E-01	0.000E+00	
		0.000E+00	0.000E+00	0.000E+00
		0.000E+00	2.361E-01	1.643E-01
3	NONTABULAR	2.158E-01	0.000E+00	
		0.000E+00	0.000E+00	0.000E+00
		0.000E+00	1.878E-01	1.410E-01
4	NONTABULAR	1.987E-01	0.000E+00	
		0.000E+00	0.000E+00	0.000E+00
		0.000E+00	1.464E-01	1.193E-01
5	NONTABULAR	1.815E-01	0.000E+00	
		0.000E+00	0.000E+00	0.000E+00
		0.000E+00	1.117E-01	9.955E-02
6	NONTABULAR	1.376E-01	0.000E+00	
		0.000E+00	0.000E+00	0.000E+00
		0.000E+00	7.595E-02	7.157E-02
7	NONTABULAR	1.261E-01	0.000E+00	
		0.000E+00	0.000E+00	0.000E+00
		0.000E+00	5.852E-02	6.009E-02
8	NONTABULAR	1.147E-01	0.000E+00	
		0.000E+00	0.000E+00	0.000E+00
		0.000E+00	4.398E-02	4.962E-02
9	NONTABULAR	1.033E-01	0.000E+00	
		0.000E+00	0.000E+00	0.000E+00
		0.000E+00	3.212E-02	4.020E-02

LOADING 1 - WIND LOADS ON STRUCTURE

JOINT LOADS

JOINT	DIRECTION	UNITS		LOAD
10	FX	KIP	FEET	4.6600
10	MZ	KIP	FEET	-15.5500
10	FY	KIP	FEET	-2.5000

LOADING 1 - WIND LOADS ON STRUCTURE

JOINT LOADS

JOINT	DIRECTION	UNITS		LOAD
9	FX	KIP	FEET	3.3900
9	FY	KIP	FEET	-2.5000
8	FX	KIP	FEET	2.2400
8	FY	KIP	FEET	-1.5000

LOADING 1 - WIND LOADS ON STRUCTURE

ELEMENT LOADS ELEMENT	TYPE	DIRECTION	GROUP 1 UNITS		LOAD 1	LOAD 2	TYPE BEAM DIST 1	DIST 2
1	UNIF	FY	KIP	FEET	-0.0670	-0.0670	0.0000	11.9996
2	UNIF	FY	KIP	FEET	-0.0675	-0.0675	0.0000	11.9979
3	UNIF	FY	KIP	FEET	-0.0637	-0.0637	0.0000	11.9944
4	UNIF	FY	KIP	FEET	-0.0640	-0.0640	0.0000	11.9890
5	UNIF	FY	KIP	FEET	-0.0641	-0.0641	0.0000	9.9854
6	UNIF	FY	KIP	FEET	-0.0626	-0.0626	0.0000	9.9789
7	UNIF	FY	KIP	FEET	-0.0605	-0.0605	0.0000	9.9718
8	UNIF	FY	KIP	FEET	-0.0576	-0.0576	0.0000	9.9657
9	UNIF	FY	KIP	FEET	-0.0546	-0.0546	0.0000	9.9619

LOADING 1 - WIND LOADS ON STRUCTURE

JOINT LOADS

JOINT	DIRECTION	UNITS		LOAD
2	FY	KIP	FEET	-1.4370
3	FY	KIP	FEET	-1.3330
4	FY	KIP	FEET	-1.2270
5	FY	KIP	FEET	-1.1210
6	FY	KIP	FEET	-0.8490
7	FY	KIP	FEET	-0.7790
8	FY	KIP	FEET	-0.7080
9	FY	KIP	FEET	-0.6380
10	FY	KIP	FEET	-0.5810

EQUATION NUMBERS

JOINT	TRANSLATION X	TRANSLATION Y	TRANSLATION Z	ROTATION X	ROTATION Y	ROTATION Z
1	0	0	0	0	0	0
2	1	2	0	0	0	3
3	4	5	0	0	0	6
4	7	8	0	0	0	9
5	10	11	0	0	0	12
6	13	14	0	0	0	15
7	16	17	0	0	0	18
8	19	20	0	0	0	21
9	22	23	0	0	0	24
10	25	26	0	0	0	27

CUDDY & FEDER & WORBY LLP

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July 10, 2001

VIA FEDERAL EXPRESS

Hon. Mortimer Gelston, Chairman and Members
of the Siting Council
Connecticut Siting Council
10 Franklin Square
New Britain, Connecticut 06051

Re: Tower Sharing Request by AT&T Wireless -
Existing Tower Facility at
48 Newtown Road, Danbury, Connecticut

Hon. Mortimer Gelston, Chairman and Members of the Siting Council:

Pursuant to Connecticut General Statutes (C.G.S.) § 16-50aa, AT&T Wireless PCS LLC, by and through its agent AT&T Wireless Services, Inc., ("AT&T Wireless") hereby requests an order from the Connecticut Siting Council (the "Council") to approve the proposed shared use of an existing communications tower, located at 48 Newtown Road in the City of Danbury (the "Newtown Road Facility"). In response to the Council's June 6, 2001 denial of AT&T's prior tower sharing request, TS-AT&T-034-010523, AT&T has revised its proposed antenna configuration on the tower to consist of a pipe mount similar to other tower sharing requests approved by the Council.

The Newtown Road Facility

The Newtown Road Facility consists of an approximately one hundred (100) foot monopole (the "Tower") and equipment currently being used for wireless communications by Nextel Communications, VoiceStream Communications and Cingular Wireless. A chain link fence with privacy slats surrounds the Tower. Current adjacent land uses are predominately

commercial and industrial. AT&T Wireless has entered into an agreement with the tower owner to permit the installation of a wireless communications facility at the existing Newtown Road Facility. See lease signature page annexed hereto as Exhibit A.

AT&T Wireless' Facility

As shown on the enclosed plans prepared by Natcomm, LLC, including a site plan and tower elevation of the Newtown Road Facility, AT&T Wireless proposes shared use of the Facility by placing antennas on the Tower and equipment needed to provide personal communications services ("PCS") within the existing building adjacent to the Facility. AT&T Wireless will install three (3) panel antennas on a 10' pipe mount, 4.5" in diameter, attached to the top of the Tower to an overall height of 110' AGL. This as opposed to the pole mount previously proposed to an overall height of 112' AGL and denied in TS-AT&T-034-010523. The associated equipment cabinets will be located on the second floor of the existing building located at 48 Newtown Road.

Connecticut General Statutes § 16-50aa provides that, upon written request for shared use approval, an order approving such use shall be issued, "if the council finds that the proposed shared use of the facility is technically, legally, environmentally and economically feasible and meets public safety concerns." (C.G.S. § 16-50aa(c)(1).) Further, upon approval of such shared use, it is exclusive and no local zoning or land use approvals are required C.G.S. § 16-50x. Shared use of the Newtown Road Facility satisfies the approval criteria set forth in C.G.S. § 16-50aa as follows:

A. Technical Feasibility AT&T has confirmed that the tower is structurally capable of supporting the addition of AT&T Wireless' antennas. The proposed shared use of this tower is therefore technically feasible. See structural report from Manzi Engineering, annexed hereto as Exhibit B.

B. Legal Feasibility Pursuant to C.G.S. § 16-50aa, the Council has been authorized to issue an order approving shared use of the existing Newtown Road Facility. (C.G.S. § 16-50aa(c)(1)). Under the authority vested in the Council by C.G.S. § 16-50aa, an order by the Council approving the shared use of a tower would permit the Applicant to obtain a building permit for the proposed installation.

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

1. The proposed installation would have a de minimis visual impact, and would not cause any significant change or alteration in the physical or environmental characteristics of the existing facility;

2. The proposed installation by AT&T Wireless would not increase the height of the tower itself or extend the boundaries of the Newtown Road Facility;

3. The proposed installation would not increase the noise levels at the existing facility boundaries by six decibels or more;

4. Operation of AT&T Wireless' antennas at this site would not exceed the total radio frequency electromagnetic radiation power density level adopted by the FCC and Connecticut Department of Health. The "worst case" exposure calculated for the operation of this facility for all carriers, would be approximately 40.22% of the standard. See Cumulative Emissions Compliance Report, prepared by David C. Cotton, Jr., AT&T Senior Radio Frequency Engineer, annexed hereto as Exhibit C;

5. The proposed shared use of the Newtown Road Facility would not require any water or sanitary facilities, or generate air emissions or discharges to water bodies. Further, the installation will not generate any traffic other than for periodic maintenance visits.

D. Economic Feasibility As evidenced in Exhibit A annexed hereto, the Applicant and the tower owner have entered into a mutual agreement to share use of the Newtown Road Facility on terms agreeable to both parties. The proposed tower sharing is therefore economically feasible.

E. Public Safety As stated above and evidenced in the Cumulative Emissions Compliance Report annexed hereto as Exhibit C, the operation of AT&T Wireless' antennas at this site would not exceed the total radio frequency electromagnetic radiation power density level adopted by the FCC and Connecticut Department of Health. Further, the addition of AT&T Wireless' telecommunications service in the Newtown area through shared use of the Newtown Road Facility is expected to enhance the safety and welfare of local residents and travelers through the area resulting in an improvement to public safety in this area of Newtown.

Conclusion

As delineated above, the proposed shared use of the Newtown Road Facility satisfies the criteria set forth 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 the State of Connecticut. AT&T Wireless therefore requests the Siting Council issue an order approving the proposed shared use of the Newtown Road Facility.

Respectfully submitted,

Christopher B. Fisher, Esq.
On behalf of AT&T Wireless

cc: Mayor Eriquez, City of Danbury
Dennis Elpern, City Planner
Carmen Chapman, AT&T Wireless
Connie Lamberes, Bechtel

BELL ATLANTIC MOBILE
STRUCTURE
DESIGN CALCULATIONS
100' MONOPOLE
SITE: GERMANTOWN
EEI JOB #: 5246

AT&T WIRELESS SERVICES

Date: July 10, 2001

CT-179
Base of tower

ERP Calculator	AT&T		ERP Calculator		
Max Power to Ant port (dBm)	Ant Gain on determined lobe (dBd)	ERP (dbm)	Max Power to Ant port (dBm)	Ant Gain on determined lobe (dBd)	ERP (dbm)
45.051500	14.4	59.451500	0.000000	0	0.000000
(watts per channel)	Maximum Number of Channels	(watts)	(watts per channel)	Maximum Number of Channels	(watts)
4.000000	8	881.353185	0.000000	0	0.000000

ERP Calculator	Cingular		ERP Calculator		
Max Power to Ant port (dBm)	Ant Gain on determined lobe (dBd)	ERP (dbm)	Max Power to Ant port (dBm)	Ant Gain on determined lobe (dBd)	ERP (dbm)
52.787536	10	62.787536	0.000000	0	0.000000
(watts per channel)	Maximum Number of Channels	(watts)	(watts per channel)	Maximum Number of Channels	(watts)
10.000000	19	1900.000000	0.000000	0	0.000000

ERP Calculator	Verizon		ERP Calculator		
Max Power to Ant port (dBm)	Ant Gain on determined lobe (dBd)	ERP (dbm)	Max Power to Ant port (dBm)	Ant Gain on determined lobe (dBd)	ERP (dbm)
52.787536	10	62.787536	0.000000	0	0.000000
(watts per channel)	Maximum Number of Channels	(watts)	(watts per channel)	Maximum Number of Channels	(watts)
10.000000	19	1900.000000	0.000000	0	0.000000

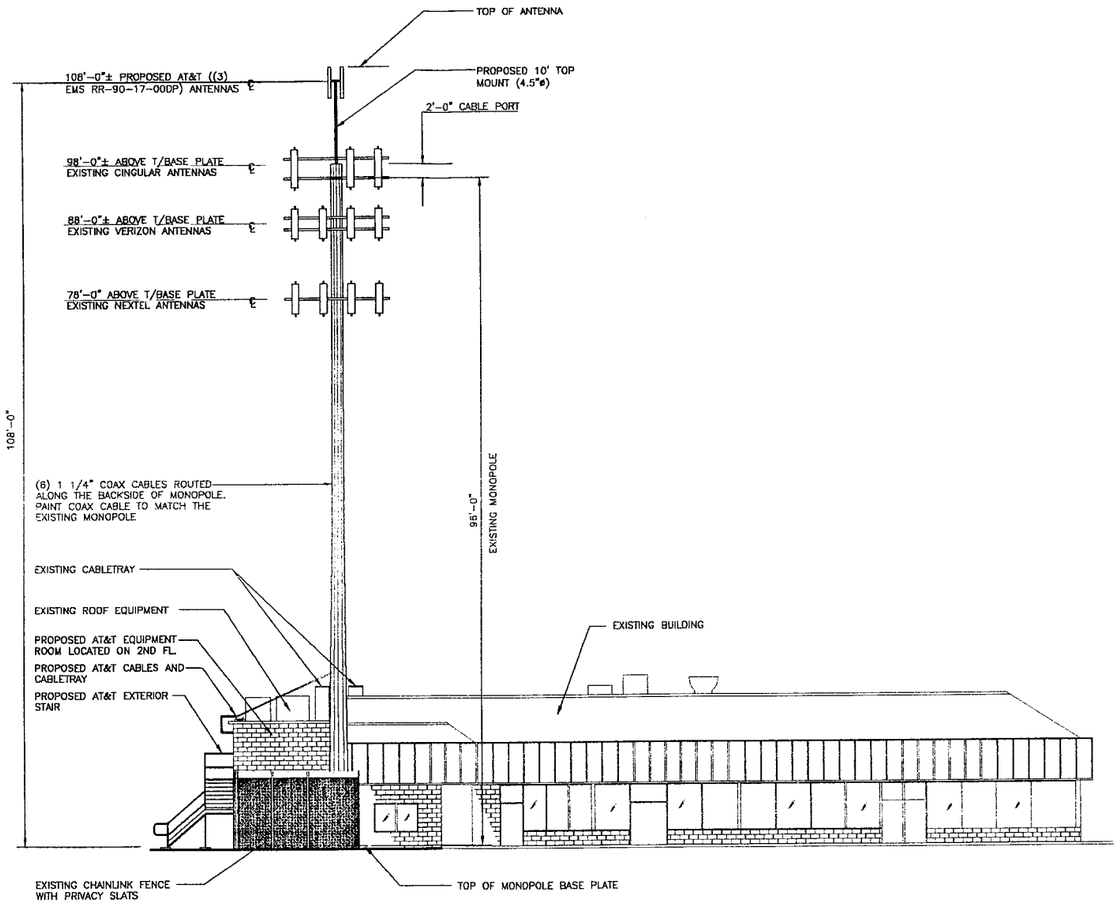
ERP Calculator	Nextel		ERP Calculator		
Max Power to Ant port (dBm)	Ant Gain on determined lobe (dBd)	ERP (dbm)	Max Power to Ant port (dBm)	Ant Gain on determined lobe (dBd)	ERP (dbm)
49.542425	10	59.542425	0.000000	0	0.000000
(watts per channel)	Maximum Number of Channels	(watts)	(watts per channel)	Maximum Number of Channels	(watts)
10.000000	9	900.000000	0.000000	0	0.000000

Field density	AT&T	Cingular	Verizon	Nextel
BAND/FREQUENCY (MHz)	1900	850	850	850
Signal Level (E.R.P. dbm)	59.451500	62.787536	62.787536	59.542425
Antenna Centerline Height (ft)	108	98	88	78
Antenna Centerline Height (m)	32.918400	29.870400	26.822400	23.774400
Signal Level (E.R.P. Watts)	881.353185	1900.000000	1900.000000	900.000000
Field Density (µW/cm2)	27.165582	71.124298	88.207355	53.182634
Cumulative Density (µW/cm2)	27.165582	98.289879	186.497234	239.679868
Maximum Density OET-65 (µW/cm2)	1000.000000	566.666667	566.666667	566.666667
% of Maximum Density	2.72%	12.55%	15.57%	9.39%
Cummulative Percentage	2.72%	15.27%	30.83%	40.22%

	(none)	(none)	(none)	(none)
BAND/FREQUENCY (MHz)	0			
Signal Level (E.R.P. dbm)	0.000000	0.000000	0.000000	0.000000
Antenna Centerline Height (ft)	0	0	0	0
Feet converted to (m)->	0.000000	0.000000	0.000000	0.000000
Signal Level (E.R.P. Watts)	0.000000	0.000000	0.000000	0.000000
Field Density (µW/cm2)	0.000000	0.000000	0.000000	0.000000
Cumulative Density (µW/cm2)	239.679868	239.679868	239.679868	239.679868
Maximum Density OET-65 (µW/cm2)	0.000000	0.000000	0.000000	0.000000
% of Maximum Density	0.00%	0.00%	0.00%	0.00%
Cummulative Percentage	40.22%	40.22%	40.22%	40.22%

Percentage of Maximum ____

239.68 uW/cm2 Cumulative Density
40.22% of maximum allowable level.



2 ELEVATION
NOT TO SCALE

Natcomm, L.L.C.
63-2 North Branford Road
Branford, Connecticut 06405
Tel: (203) 488-0580
Fax (203) 488-8587
Consulting Engineers • Project Management
Civil • Structural • Mechanical • Electrical

DANBURY EAST
SITE NO. CT-0179.2.0
48 NEWTOWN ROAD
DANBURY, CT 06810

AT&T
AT&T WIRELESS PCS LLC
12 OMEGA DRIVE
STAMFORD, CONNECTICUT

NO.	DATE	REVISIONS	BY	CHK	APPV.
△					
△					
△					
2	07/2/01	ISSUED FOR SITING COUNCIL (REVISED ANTENNA MOUNT)	P.A.M.	JJP	CFC
1	05/21/01	ISSUED FOR SITING COUNCIL	P.A.M.	JJP	CFC

DRAWN BY: P.A.M. | CHECKED BY: JJP | SCALE: AS NOTED | DATE: 03/22/01

PROFESSIONAL ENGINEER

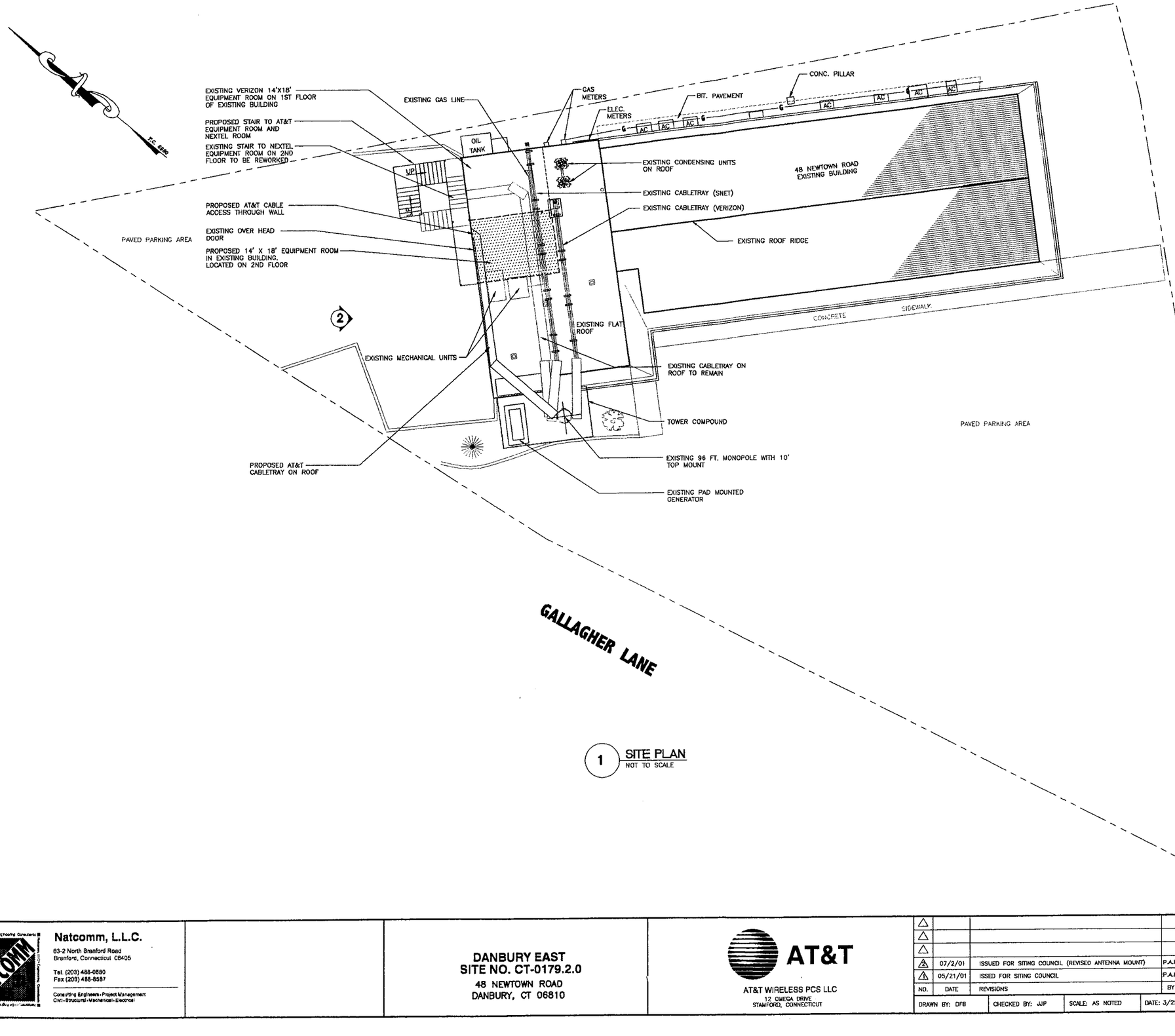
STATE OF CONNECTICUT
CARLO F. SENORE
No. 16694
LICENSED
PROFESSIONAL ENGINEER

Natcomm, L.L.C.
63-2 North Branford Road
Branford, Connecticut 06405

ELEVATION

JOB NO.	SITE NO.	DRAWING NUMBER	REV.
	CT-179	SC02	2

311AZC2.dwg 7-2-01 11:45:35 am EST



ANTENNA ORIENTATION KEY

1 SITE PLAN
NOT TO SCALE

Natcomm, L.L.C.
83-2 North Branford Road
Branford, Connecticut 06405
Tel. (203) 488-0580
Fax (203) 488-8587
Consulting Engineers • Project Management
Civil • Structural • Mechanical • Electrical

DANBURY EAST
SITE NO. CT-0179.2.0
48 NEWTOWN ROAD
DANBURY, CT 06810

AT&T
AT&T WIRELESS PCS LLC
12 OMEGA DRIVE
STAMFORD, CONNECTICUT

NO.	DATE	REVISIONS	BY	CHK	APPV.
2	07/2/01	ISSUED FOR SITING COUNCIL (REVISED ANTENNA MOUNT)	P.A.M.	JJP	CFC
1	05/21/01	ISSED FOR SITING COUNCIL	P.A.M.	JJP	CFC

DRAWN BY: DFB | CHECKED BY: JJP | SCALE: AS NOTED | DATE: 3/22/01

STATE OF CONNECTICUT — CARLO F. CENTORE — No. 16694 — LICENSED PROFESSIONAL ENGINEER

Natcomm, L.L.C.
83-2 North Branford Road
Branford, Connecticut 06405

SITE PLAN

JOB NO.	SITE NO.	DRAWING NUMBER	REV.
0179.2.0	CT-179	SC01	2

311A2C1.dwg 5-21-01 10:56:47 am EST

IN WITNESS WHEREOF, the parties have caused this Agreement to be executed on their behalf by their respective duly authorized officers and agents as of the 30th day of April, 2001.

Witnesses:

-Witness

-Witness

48 NEWTOWN ROAD CORPORATION

By: ~~Barry J. Bertram~~ Daniel E Bertram
Its ~~President~~ Executive Vice President
Duly Authorized

AT&T WIRELESS PCS LLC dba AT&T WIRELESS

-Witness

-Witness

By: Sam Simmons
Its Manager
Duly Authorized

STATE OF CONNECTICUT)
) ss:
COUNTY OF FAIRFIELD)

EVP

Daniel E. Bertram On this the 30th day of April, 2001, before me, the undersigned officer, personally appeared ~~Barry J. Bertram~~, who acknowledged himself to be the ~~President~~ of 48 Newtown Road Corporation, a Connecticut corporation, and that he, as such officer, being authorized so to do, executed the foregoing instrument for the purposes therein contained, by signing the name of the corporation by himself as President.

IN WITNESS WHEREOF, I hereunto set my hand.

, Notary Public

My Commission Expires:
Commissioner of the Superior Court

AUGUSTA C. PEREIRA
NOTARY PUBLIC
MY COMMISSION EXPIRES JUNE 30, 2005

STIFFNESS MATRIX DATA

NUMBER OF EQUATIONS	=	27
NUMBER OF MATRIX ELEMENTS BELOW SKYLINE	=	126
MAXIMUM HALF-BANDWIDTH	=	6
AVERAGE HALF-BANDWIDTH	=	4
NUMBER OF STORAGE WORDS FOR ELEMENT DATA	=	585
NUMBER OF STORAGE WORDS FOR MATRIX BLOCKS	=	140
MAX NUMBER OF EQUATIONS PER MATRIX BLOCK	=	27
NUMBER OF LOAD VECTORS PER LOAD BLOCK	=	1
NUMBER OF MATRIX BLOCKS	=	1

JOINT DISPLACEMENTS (FEET RAD)

JOINT	LOAD	TRANSLATION X	TRANSLATION Y	TRANSLATION Z	ROTATION X	ROTATION Y	ROTATION Z
1	1	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2	1	7.117E-02	-5.987E-04	0.000E+00	0.000E+00	0.000E+00	-1.155E-02
3	1	2.838E-01	-4.539E-03	0.000E+00	0.000E+00	0.000E+00	-2.353E-02
4	1	6.423E-01	-1.543E-02	0.000E+00	0.000E+00	0.000E+00	-3.582E-02
5	1	1.149E+00	-3.701E-02	0.000E+00	0.000E+00	0.000E+00	-4.818E-02
6	1	1.683E+00	-6.574E-02	0.000E+00	0.000E+00	0.000E+00	-5.842E-02
7	1	2.322E+00	-1.070E-01	0.000E+00	0.000E+00	0.000E+00	-6.934E-02
8	1	3.061E+00	-1.620E-01	0.000E+00	0.000E+00	0.000E+00	-7.837E-02
9	1	3.874E+00	-2.288E-01	0.000E+00	0.000E+00	0.000E+00	-8.452E-02
10	1	4.731E+00	-3.029E-01	0.000E+00	0.000E+00	0.000E+00	-8.756E-02

ELEMENT GROUP 1 (KIP FEET) BEAM ELEMENT FORCES

ELEMENT	LOAD	JOINT/ SECTN	AXIAL LFX	SHEAR LFY	SHEAR LFZ	TORSION LMX	BENDING LMY	BENDING LMZ
1	1	1	15.36	16.50	0.00	0.00	0.00	1271.66
		2	-15.36	-15.70	0.00	0.00	0.00	-1078.45
2	1	2	13.74	15.85	0.00	0.00	0.00	1078.45
		3	-13.74	-15.04	0.00	0.00	0.00	-893.09
3	1	3	12.22	15.17	0.00	0.00	0.00	893.09
		4	-12.22	-14.41	0.00	0.00	0.00	-715.71
4	1	4	10.82	14.50	0.00	0.00	0.00	715.71
		5	-10.82	-13.74	0.00	0.00	0.00	-546.40
5	1	5	9.54	13.80	0.00	0.00	0.00	546.40
		6	-9.54	-13.16	0.00	0.00	0.00	-411.82
6	1	6	8.56	13.20	0.00	0.00	0.00	411.82
		7	-8.56	-12.58	0.00	0.00	0.00	-283.16
7	1	7	7.65	12.61	0.00	0.00	0.00	283.16
		8	-7.65	-12.00	0.00	0.00	0.00	-160.45
8	1	8	5.54	9.65	0.00	0.00	0.00	160.45
		9	-5.54	-9.07	0.00	0.00	0.00	-67.15
9	1	9	2.67	5.45	0.00	0.00	0.00	67.15
		10	-2.67	-4.91	0.00	0.00	0.00	-15.55

SUPPORT REACTIONS (KIP FEET)

JOINT	LOAD	FORCE X	FORCE Y	FORCE Z	MOMENT X	MOMENT Y	MOMENT Z
1	1	-16.412	15.460	0.000	0.000	0.000	1271.663
TOTALS	1	-16.412	15.460	0.000	0.000	0.000	1271.663

ELEMENT GROUP 1 SECTION STRESS (KIPS INCH) BEAM ELEMENTS

ELEMENT	LOAD	JOINT/, SECTN	AVERAGE STRESS AXIAL	AVG STRESS SHEAR-Y/ SHEAR-Z	MAX STRESS BENDING-Y	MAX STRESS BENDING-Z	MAX NORMAL SXX	MIN NORMAL SXX
1	1	1	-0.43	0.00 0.00	0.00	46.58	46.16	-47.01
		2	-0.43	0.00 0.00	0.00	-39.50	39.08	-39.93
2	1	2	-0.41	0.00 0.00	0.00	45.58	45.17	-45.99
		3	-0.41	0.00 0.00	0.00	-37.74	37.33	-38.15
3	1	3	-0.39	0.00 0.00	0.00	43.99	43.60	-44.39
		4	-0.39	0.00 0.00	0.00	-35.26	34.86	-35.65
4	1	4	-0.38	0.00 0.00	0.00	41.65	41.28	-42.03
		5	-0.38	0.00 0.00	0.00	-31.80	31.42	-32.18
5	1	5	-0.37	0.00 0.00	0.00	38.11	37.75	-38.48
		6	-0.37	0.00 0.00	0.00	-28.73	28.36	-29.09
6	1	6	-0.43	0.00 0.00	0.00	39.96	39.53	-40.39
		7	-0.43	0.00 0.00	0.00	-27.48	27.04	-27.91
7	1	7	-0.42	0.00 0.00	0.00	32.72	32.30	-33.14
		8	-0.42	0.00 0.00	0.00	-18.54	18.12	-18.96
8	1	8	-0.34	0.00 0.00	0.00	22.45	22.12	-22.79
		9	-0.34	0.00 0.00	0.00	-9.40	9.06	-9.73
9	1	9	-0.18	0.00 0.00	0.00	11.60	11.42	-11.78
		10	-0.18	0.00 0.00	0.00	-2.69	2.51	-2.87

ok
< 52.0

AT&T WIRELESS SERVICES

CT-179 Site Summary
MPE (Maximum Possible Exposure) Study
July 10, 2001

A. Owner of the structure on which the antenna is located and the location of the antenna:

Name of owner of the structure on which the antenna is located:	
Owner of Structure:	48 Newtown Corporation
Address of structure:	48 Newtown Road
	Danbury, CT

Latitude:	41° 24' 11" N
Longitude:	73° 25' 29" W

B. Owner of the antenna:

Name of the owner of the antenna:	AT&T Wireless Services
Address of antenna owner:	12 Omega Drive
	Stamford, CT 06907
Telephone number:	(203) 602-7000

C. Technical specifications:

FCC class (or type) of service:	PCS (IS-136)
Operating frequency of transmitter:	1965-1970MHz
Peak power output of transmitter:	8 Watts/per channel
Power into the antenna:	4 watts
Antenna manufacturer:	EMS
Antenna model:	RR90-17-00DP
Antenna type:	Panel
Gain of the antenna:	14.4 dBd
Antenna radiating pattern:	H-plane - 90°±3° E-plane –6°±1°
Polarization of radiation from antenna:	Vertical 180°
Effective radiating power:	881.4 watts ERP at centerline (maximum)

D. Power density information:

The power density values presented in the attached studies were achieved according to FCC OET-65 using the following formula:

$$S = \frac{33.4xP}{R^2} \quad \text{(Equation 9, FCC OET-65)}$$

Where: S = Power density in $\mu W/cm^2$
P = Power (watts) ERP (effective radiated power)
R = Distance (meters)

The base of the structure is the point used to calculate the worst-case scenario based on the above equations. The results of this analysis indicate that the maximum level of RF energy in areas normally accessible to the public is below all applicable health and safety limits. Specifically, the maximum level of RF energy associated with simultaneous and continuous operation of all proposed transmitters will be less than 40.22 % of the safety criteria adopted by the Federal Communication Commission as mandated by the Telecommunications Act of 1996. The Telecommunications Act of 1996 is the applicable Federal law with respect to consideration of the environmental effects of RF emissions in the siting of personal wireless facilities. The maximum level of RF energy will also be less than 40.22% of the exposure limits of ANSI, IEEE, NCRP, and the limits used by all states that regulate RF exposure.

Point	Power Density ($\mu W/cm^2$)	Maximum Allowable ($\mu W/cm^2$)	Percentage of Maximum
AT&T	**27.17**	1000	**2.72%**
Cingular (SNET)	**71.12**	566.7	**12.55%**
Verizon	**88.21**	566.7	**15.57%**
Nextel	**53.18**	566.7	**9.39%**
Total	**239.68**		**40.22%**

The calculations of these values are shown on the attached spreadsheets.

To the best of my knowledge, the statements made and information disclosed in this study are true, complete, and correct.

11 July 2001
Date

David Cotton, Senior RF Engineer