

FARMINGTON NORTH 2

**199 Town Farm Road
Farmington, Connecticut**

Description of Proposed Cell Site

Cellco Partnership d/b/a Verizon Wireless
99 East River Drive
East Hartford, CT 06108

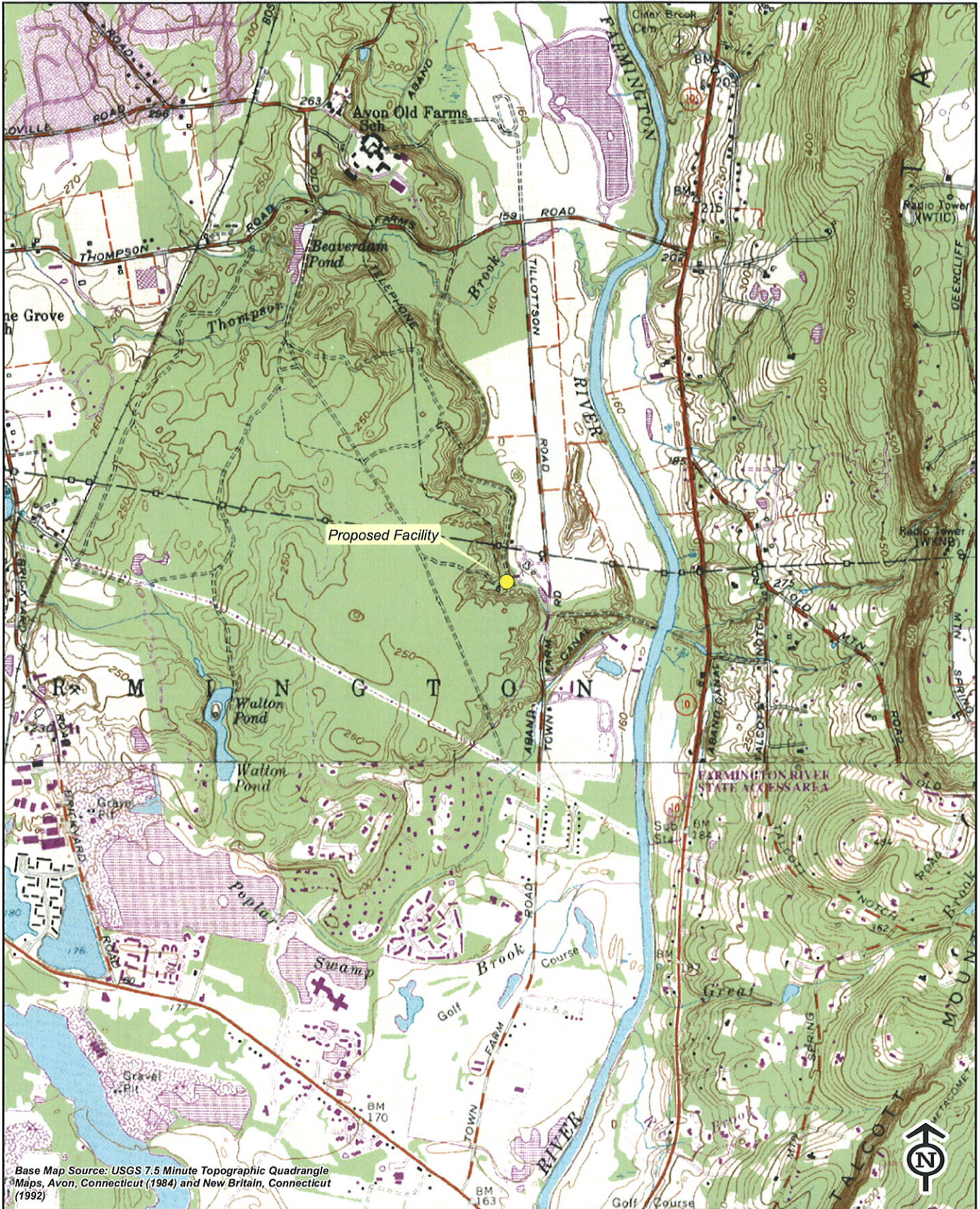
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SITE NAME: FARMINGTON NORTH 2 – 199 Town Farm Road, Farmington, CT

GENERAL CELL SITE DESCRIPTION

The proposed cell site would be located within a 60' x 60' fenced compound within a 100' x 100' leased area in the westerly portion of an approximately 9.9-acre parcel ("Property") owned by the Town of Farmington. The Property is known as the Simmons Family Farm and is located at 199 Town Farm Road in Farmington (the "Farmington North 2 Facility"). The Farmington North 2 Facility would consist of a 110-foot telecommunications tower disguised as a pine tree. Simulated branches of the monopine would extend an additional seven feet from the top of the tower to an overall structure height of 117-feet. Cellco would install a 12' x 30' equipment shelter near the base of the tower to house its radio equipment and a propane-fueled back-up generator. A 1,000 gallon propane tank would also be installed within the fenced compound. Cellco antennas would be mounted at the top of the tower with their centerline at the 110-foot level. Utility and vehicular access to the site would extend from Town Farm Road over a new gravel driveway a distance of approximately 580 feet to the site compound.



Base Map Source: USGS 7.5 Minute Topographic Quadrangle
 Maps, Avon, Connecticut (1984) and New Britain, Connecticut
 (1992)



Quadrangle Location

Vanasse Hangen Brustlin, Inc.

**USGS Topographic Map
 Proposed Verizon Wireless
 Telecommunications Facility
 The Simmons Family Farm
 199 Town Farm Road
 Farmington, Connecticut**





Base Map Source: 2006 Color Aerial Photograph with 1 foot Resolution

Vanasse Hangen Brustlin, Inc.

**Aerial Photograph
 Proposed Verizon Wireless
 Telecommunications Facility
 The Simmons Family Farm
 199 Town Farm Road
 Farmington, Connecticut**



Quadrangle Location



SITE EVALUATION REPORT

SITE NAME: FARMINGTON NORTH 2 – 199 Town Farm Road, Farmington, CT

I. LOCATION

- A. COORDINATES: 41°-45'-27.99" N 72°-49'-47.75" W
- B. GROUND ELEVATION: Approximately 189± feet AMSL
- C. USGS MAP: Avon, CT
- D. SITE ADDRESS: 199 Town Farm Road, Farmington, CT
- E. ZONING WITHIN 1/4 MILE OF SITE: Land within 1/4 mile of the cell site is zoned Residential.

II. DESCRIPTION

- A. SITE SIZE: 100' x 100' Leased Area
60' x 60' Compound Area
- B. LESSOR'S PARCEL: Approximately 9.9-acres
- C. TOWER TYPE/HEIGHT: 110' Monopole Tower
117' overall structure height for "monopine" design
- D. SITE TOPOGRAPHY AND SURFACE: Topography in the site compound area is generally flat and slopes up to the west of the facility location. Minimal clearing and grading of the leased area and access driveway will be required. The site compound area has been situated so as to minimize, to the extent possible, the clearing of substantial trees. Clearing of twelve (12) trees with a six inch (6") diameter at breast height ("dbh") will be required for the site compound area.
- E. SURROUNDING TERRAIN, VEGETATION, WETLANDS, OR WATER: The monopine tower is located in the westerly portion of a partially wooded 9.9-acre parcel. No wetland areas exist within or near the site compound or access driveway.
- F. LAND USE WITHIN 1/4 MILE OF SITE: The Farmington North 2 Facility is located on an approximately 9.9-acre, partially wooded parcel. The Property is surrounded by farm land and residential land uses. (See Aerial Photograph at p. ii).

III. FACILITIES

- A. POWER COMPANY: The Connecticut Light and Power Company
- B. POWER PROXIMITY TO SITE: Approximately 580 feet to the east of the cell site.
- C. TELEPHONE COMPANY: AT&T
- D. PHONE SERVICE PROXIMITY: Same as power
- E. VEHICLE ACCESS TO SITE: Vehicle access to the site would extend from Town Farm Road over a new 14-foot wide gravel driveway to the site compound a total distance of approximately 580 feet.
- F. CLEARING AND FILL REQUIRED: Clearing and grading would be required for construction of the tower, site compound and for improving the access drive. Detailed construction plans would be developed after approval by the Siting Council.

IV. LEGAL

- A. PURCHASE [] LEASE [X]
- B. OWNER: Town of Farmington
- C. ADDRESS: 199 Town Farm Road, Farmington, CT 06032
- D. DEED ON FILE AT: Town of Farmington, CT Land Records

FACILITIES AND EQUIPMENT SPECIFICATIONS
(NEW TOWER & EQUIPMENT BUILDING)

SITE NAME: FARMINGTON NORTH 2 – 199 Town Farm Road, Farmington, CT

I. TOWER SPECIFICATIONS:

- A. MANUFACTURER: To be determined
- B. TYPE: Self-supporting monopine tree tower
- C. TOWER HEIGHT: 110' DIMENSIONS: Approx. 60" base
"MONOPINE" HEIGHT: 117' Approx. 30" top

II. TOWER LOADING:

A. CELLCO EQUIPMENT:

- 1. Antennas (15)
Six (6) Model LPA-80063/4CF (47.4" x 15.2" x 13.2") Cellular
Six (6) Model LPA-185063/8CF_2 (47.2" x 6.6" x 5.8) PCS antennas
Three (3) Model BXA-70063/4CF (47.4" x 11.2" x 5.0") 700 MHz
Antenna Centerline 110' AGL
- 2. GPS Antenna: Mounted on the top of the equipment shelter
- 3. Transmission Lines:
 - a. MFG/Model: Andrews LDF5-50A
 - b. Size: 1 5/8"

III. ENGINEERING ANALYSIS AND CERTIFICATION:

The tower will be designed in accordance with Electronic Industries Association Standard EIA/TIA-222-F "Structural Standards for Steel Antenna Towers and Antenna Support Structures." The foundation designs would be based on soil conditions at the site. Details for the towers and foundation designs will be provided as a part of the final D&M Plan.

ENVIRONMENTAL ASSESSMENT STATEMENT

SITE NAME: FARMINGTON NORTH 2 – 199 Town Farm Road, Farmington, CT

I. PHYSICAL IMPACT

A. WATER FLOW AND QUALITY

No water flow and/or water quality changes are anticipated as a result of the construction or operation of the Farmington North 2 Facility. There are no lakes, ponds, rivers, streams, wetlands or other regulated bodies of water located in the area to be used for the access drive, tower or equipment shelter. The equipment used will not discharge any pollutants to area surface or groundwater systems.

B. AIR QUALITY

Under ordinary operating conditions, the equipment that would be used at the site would emit no air pollutants of any kind. For limited periods during power outages and periodically for maintenance purposes, minor levels of emissions from the on-site generator would result.

Pursuant to R.C.S.A. § 22a-174-3, the on-site emergency back-up generator proposed as a part of this application would require the issuance of a Connecticut Department of Environmental Protection Air Bureau permit for potential emissions. Cellco would obtain this permit prior to installing the generator at the approved cell site.

C. LAND

Clearing and grading of the tower compound and access drive will be required. The remaining land of the Lessor would remain unchanged by the construction and operation of the cell site.

D. NOISE

The equipment to be in operation at the site after construction would emit no noise of any kind, except for operation of the installed heating, air conditioning and ventilation systems and occasional operation of a back-up generator that would be run during power outages and periodically for maintenance purposes. Some noise is anticipated during cell site construction, which is expected to take approximately four to six weeks.

E. POWER DENSITY

The worst-case calculation of power density for Cellco's Cellular, PCS and 700 MHz antennas at the Farmington North 2 Facility would be 23.94% of the Standard.

F. VISIBILITY

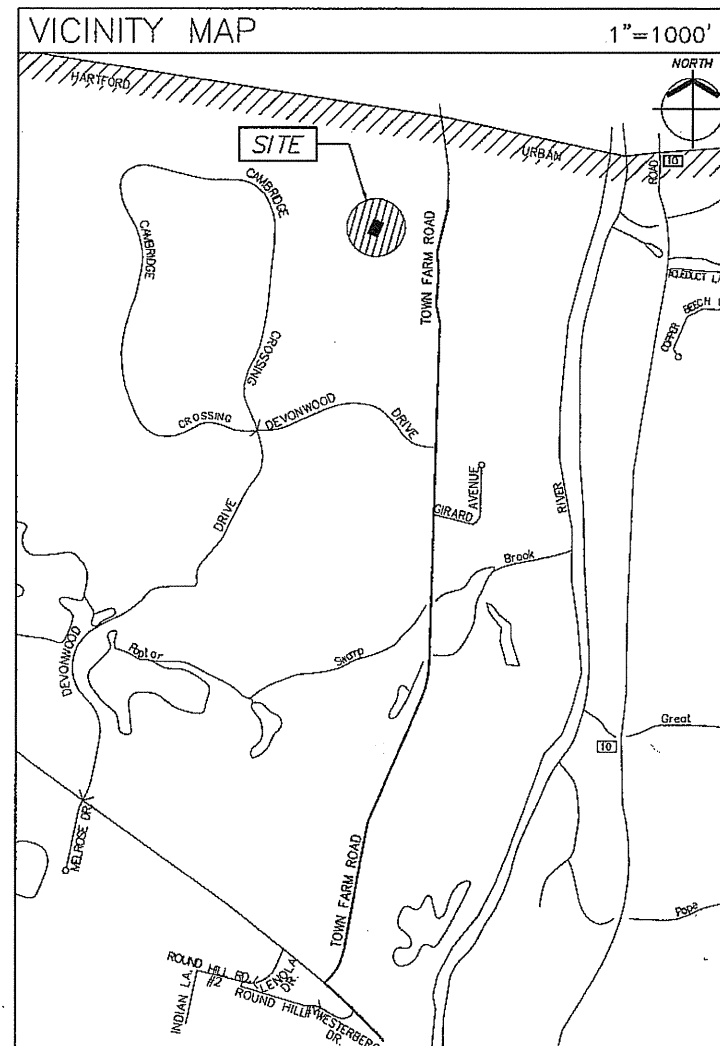
See Visual Resource Evaluation Report included as Attachment 10.

CELLCO PARTNERSHIP
DBA



FARMINGTON NORTH 2





199 TOWN FARM ROAD
FARMINGTON, CONNECTICUT 06032



SITE DIRECTIONS
FROM EAST HARTFORD: TAKE I-84 W / US-6 W VIA THE RAMP ON THE LEFT TOWARD WATERBURY. MERGE ONTO CT-4 W / FARMINGTON AVENUE VIA EXIT 39 TOWARD FARMINGTON. TURN RIGHT ONTO TOWN FARM ROAD.

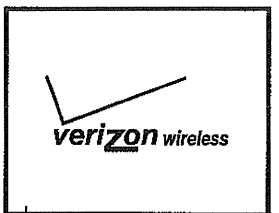
PROJECT DESCRIPTION
THE SCOPE OF THIS PROJECT INCLUDES THE INSTALLATION OF AN UNMANNED 12'-0" x 30'-0" WIRELESS COMMUNICATIONS EQUIPMENT SHELTER LOCATED WITHIN A NEW 60'-0" x 60'-0" GRAVEL COMPOUND, WITH WIRELESS COMMUNICATIONS EQUIPMENT BACKUP GENERATOR AND THE INSTALLATION OF FIFTEEN (15) VERIZON WIRELESS PANEL ANTENNAS MOUNTED TO A NEW 117' MONOPINE.

PROJECT SUMMARY	
SITE NAME:	FARMINGTON NORTH 2
SITE ADDRESS:	199 TOWN FARM ROAD FARMINGTON, CONNECTICUT 06032
CONTACT PERSON:	CELLCO PARTNERSHIP DBA VERIZON WIRELESS SANDY CARTER (860) 803-8219
GOVERNING CODE:	CONNECTICUT STATE BUILDING AND LIFE SAFETY CODE
APPLICANT:	CELLCO PARTNERSHIP DBA VERIZON WIRELESS 99 EAST RIVER DRIVE EAST HARTFORD, CT 06108
ARCHITECT:	URS CORPORATION A.E.S. 500 ENTERPRISE DRIVE, SUITE 3B ROCKY HILL, CT 06067
M/E/P ENGINEER:	URS CORPORATION A.E.S. 500 ENTERPRISE DRIVE, SUITE 3B ROCKY HILL, CT 06067

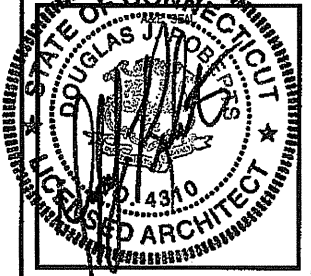
LEGEND	
SYMBOL	DESCRIPTION
	SECTION OR DETAIL NUMBER
	SHEET WHERE DETAIL/SECTION OCCURS
	ELEVATION NUMBER
	SHEET WHERE ELEVATION OCCURS

ABBREVIATIONS	
MIN.	MINIMUM
V.I.F.	VERIFY IN FIELD
O.C.	ON CENTER
PSF	POUND/SQUARE FOOT
TYP.	TYPICAL
T.O.C.	TOP OF CONCRETE
T.O.W.	TOP OF WALL

SHEET INDEX	
SHT. NO.	DESCRIPTION
T-1	TITLE SHEET - GENERAL NOTES AND LEGENDS
S-1	SURVEY
AB-1	ABUTTERS MAP AND LIST FARMINGTON
AB-2	ABUTTERS MAP AND LIST AVON
SC-1	PARTIAL SITE PLAN, NOTES AND DETAIL
SC-2	COMPOUND PLAN, TOWER ELEVATION, AND ANTENNA ORIENTATION PLAN
SC-3	SITE DETAILS AND NOTES
SC-4	EQUIPMENT SHELTER FOUNDATION PLAN, ELEVATIONS, DETAILS AND NOTES



A&E FIRM
URS CORPORATION AES
500 ENTERPRISE DRIVE, SUITE 3B
ROCKY HILL, CONNECTICUT
06067-3852



PROJECT NO: 36931054.00002

JOB NO: VZ1 229

DRAWN BY: KAP

CHECKED BY:

ISSUED FOR		
0	01-03-08	SITING COUNCIL
1	01-18-08	REVIEW
2	03-12-08	REVIEW
3	03-19-08	REVIEW
4	03-21-08	SITING COUNCIL
5	11-04-08	SITING COUNCIL
6	01-13-09	SITING COUNCIL
7	01-14-09	SITING COUNCIL

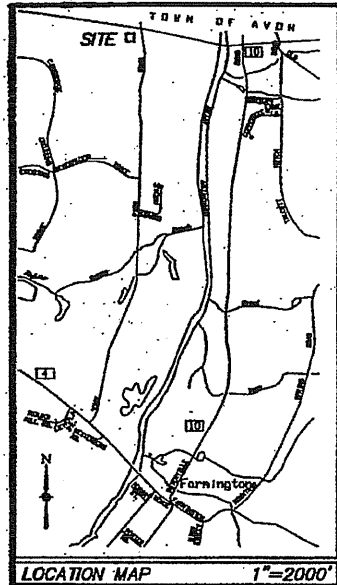
THE INFORMATION CONTAINED IN THIS SET OF DOCUMENTS IS PROPRIETARY BY NATURE. ANY USE OR DISCLOSURE OTHER THAN THAT WHICH RELATES TO VERIZON WIRELESS IS STRICTLY PROHIBITED

FARMINGTON NORTH 2
199 TOWN FARM ROAD
FARMINGTON, CONNECTICUT
06032

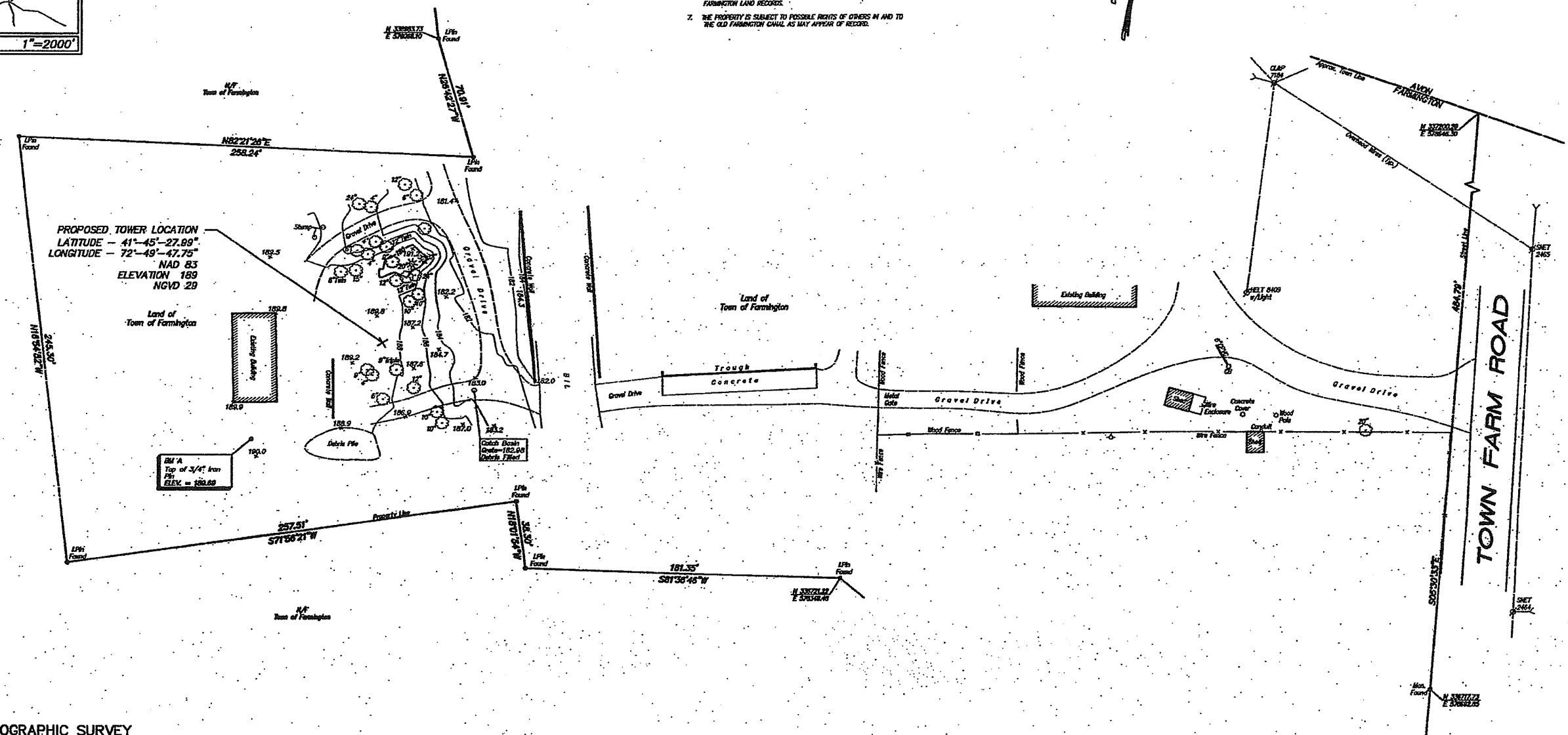
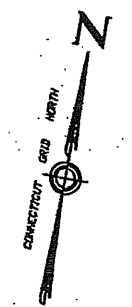
SCALE: AS NOTED

**TITLE SHEET-
GENERAL NOTES
AND LEGENDS**

T-1



- NOTES:
- THIS MAP HAS BEEN PREPARED IN ACCORDANCE WITH THE REGULATIONS OF CONNECTICUT STATE AGENCIES, SECTIONS 20-300-1 thru 20-300-35 AND THE "STANDARDS FOR SURVEYS AND MAPS IN THE STATE OF CONNECTICUT" ADOPTED BY THE CONNECTICUT ASSOCIATION OF LAND SURVEYORS, INC. ON SEPTEMBER 25, 1998. THE TYPE OF SURVEY IS A PROPERTY AND A 1-3 TOPOGRAPHIC SURVEY. THE BOUNDARY DETERMINATION CATEGORY IS A RESURVEY. THE HORIZONTAL AND VERTICAL ACCURACY CONFORMS TO CLASS A-2 & V-2 ACCURACY.
 - BEARINGS REFER TO THE CONNECTICUT COORDINATE SYSTEM ESTABLISHED BY GPS.
 - ELEVATIONS REFER TO THE NATIONAL GEODETIC VERTICAL DATUM OF 1929 BASED UPON CGS MONUMENT 528 HAVING THE PUBLISHED ELEVATION OF 100.00.
 - REFERENCE IS MADE TO THE FOLLOWING MAPS:
 - MAP OF STAGER OLD FARMS OWNED BY STAGER REALTY INC. AVON & FARMINGTON, CONNECTICUT, BY MERTON HODGE, SURVEYOR SCALE 1"=200', DATED JUNE 1933.
 - RESURVEY MAP LAND OWNED BY FISHER FAMILY PROPERTIES TOWN FARM ROAD FARMINGTON, CONNECTICUT, BY HODGE SURVEYING ASSOCIATES, P.C., SCALE 1"=100', DATED AUGUST 2005.
 - THE PROPERTY IS SUBJECT TO THE EJECTA, IF ANY, OF A RIGHT OF WAY IN FAVOR OF THE AMERICAN TELEPHONE AND TELEGRAPH COMPANY AS RECORDED IN VOLUME 74, PAGE 571 OF THE FARMINGTON LAND RECORDS.
 - THE PROPERTY IS SUBJECT TO SLIPPING RIGHTS IN FAVOR OF THE TOWN OF FARMINGTON AS RECORDED IN VOLUME 124, PAGE 139 OF THE FARMINGTON LAND RECORDS.
 - THE PROPERTY IS SUBJECT TO POSSIBLE RIGHTS OF OTHERS IN AND TO THE OLD FARMINGTON CHURCH AS MAY APPEAR OF RECORD.



PROPOSED TOWER LOCATION
 LATITUDE - 41°-45'-27.89"
 LONGITUDE - 72°-49'-47.75"
 NAD 83
 ELEVATION 189
 NGVD 29

BM A
 Top of 3/4" Iron Pin
 ELEV. = 100.00

PROPERTY & TOPOGRAPHIC SURVEY
 PROPOSED LEASE PARCEL
 LAND OF
TOWN OF FARMINGTON
 #199 TOWN FARM ROAD
 FARMINGTON, CONNECTICUT
 PREPARED FOR
VERIZON WIRELESS



No.	Date	Revision description
1	02-19-07	Client Submittal
2		
3		
4		
5		
6		
7		

TO MY KNOWLEDGE AND BELIEF THIS MAP IS
 SUBSTANTIALLY CORRECT AS NOTED HEREON

[Signature]

MICHAEL G. WILMES, L.S. LICENSE NO. 14208

TRUE AND VALID COPIES OF THIS MAP OR PLAN MUST BEAR THE ORIGINAL SIGNATURE AND EMBOSSED SEAL OF THE ABOVE NAMED LAND SURVEYOR. UNAUTHORIZED REPRODUCTION OR ALTERATION IS FORBIDDEN.

Embossed seal

URS

Surveying and Mapping by
URS Corporation AES
 230 Enterprise Drive, Suite 300
 Rocky Hill, Connecticut 06067-4002
 Tel. (860) 528-8882

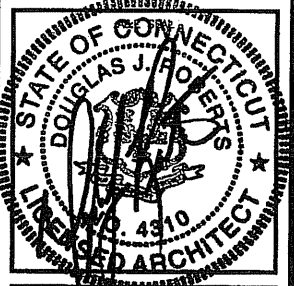
Scale: 1" = 30'
 Date: APRIL 2006

Field Book #	Drew Chief	Project #
1840-1	T. BENINATI	36921840
Search #	Drawn by	Checked by
4143	K.C.	JFC
		Map File #
		1109-16

FA SURVEY\NET\36921840.dwg\36921840.dwg



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 500 ENTERPRISE DRIVE, SUITE 3B
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 1-(860)-529-8882



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FARMINGTON NORTH 2
 199 TOWN FARM ROAD
 FARMINGTON, CONNECTICUT 06032

SCALE: AS NOTED

ABUTTERS MAP AND LIST FARMINGTON

AB-1

FARMINGTON ABUTTERS LIST

PROPERTY ADDRESS:	184 TOWN FARM ROAD
MAP/LOT	TOWN OF FARMINGTON C/O FHA NANCY PARENT 1 MONTEITH DRIVE FARMINGTON, CT 06032
17 / 11	
PROPERTY ADDRESS:	162-164 TOWN FARM RD
MAP/LOT	FARMINGTON CLUB LLC PO BOX 23 PLANTSVILLE, CT 06479
2B / 11A	
PROPERTY ADDRESS:	TOWN FARM ROAD
MAP/LOT	TOWN OF FARMINGTON 1 MONTEITH DRIVE FARMINGTON, CT 06032
17 / 27B	
PROPERTY ADDRESS:	158 TOWN FARM ROAD
MAP/LOT	CAROL A WHELAN 158 TOWN FARM ROAD FARMINGTON, CT 06032
2B / 11A1	
PROPERTY ADDRESS:	157 TOWN FARM ROAD
MAP/LOT	WENDY M. CHASE 157 TOWN FARM ROAD FARMINGTON, CT 06032
2B / 2	
PROPERTY ADDRESS:	152 TOWN FARM ROAD
MAP/LOT	CLAUDE M. BROUILLARD 184 KENYON STREET HARTFORD, CT 06105
2B / 10	
PROPERTY ADDRESS:	155 TOWN FARM ROAD
MAP/LOT	SUSAN R. CREAMER 155 TOWN FARM ROAD FARMINGTON, CT 06032
2B / 1	
PROPERTY ADDRESS:	7 ASHFORD COURT
MAP/LOT	MERWOOD M. & BONITA R. JONES 7 ASHFORD COURT FARMINGTON, CT 06032
2B / 185	
PROPERTY ADDRESS:	3 ASHFORD COURT
MAP/LOT	MARY & ANTHONY LUCIANO 539 WHEELER POINT WINSTED, CT 06098
2B / 186	
PROPERTY ADDRESS:	4 NORFOLK GARDENS
MAP/LOT	DAVID W. & VICKY R. HARRIS 4 NORFOLK GARDENS FARMINGTON, CT 06032
2B / 189	

PROPERTY ADDRESS:	10 BELGRAVIA TERRACE
MAP/LOT	PETER L. & LISA S. FISHMAN 10 BELGRAVIA TERRACE FARMINGTON, CT 06032
17 / 255	
PROPERTY ADDRESS:	11 BELGRAVIA TERRACE
MAP/LOT	SUSAN R. EDELSON 11 BELGRAVIA TERRACE FARMINGTON, CT 06032
17 / 256	
PROPERTY ADDRESS:	6 NORFOLK GARDENS
MAP/LOT	JAMES D. & DOROTHY L. GAVALIS 6 NORFOLK GARDENS FARMINGTON, CT 06032
2B / 190	
PROPERTY ADDRESS:	6 EXETER PARK
MAP/LOT	PETER J. & LEANDRA L. BAKAJ 6 EXETER PARK FARMINGTON, CT 06032
2B / 233	

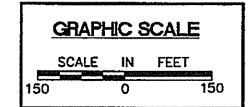
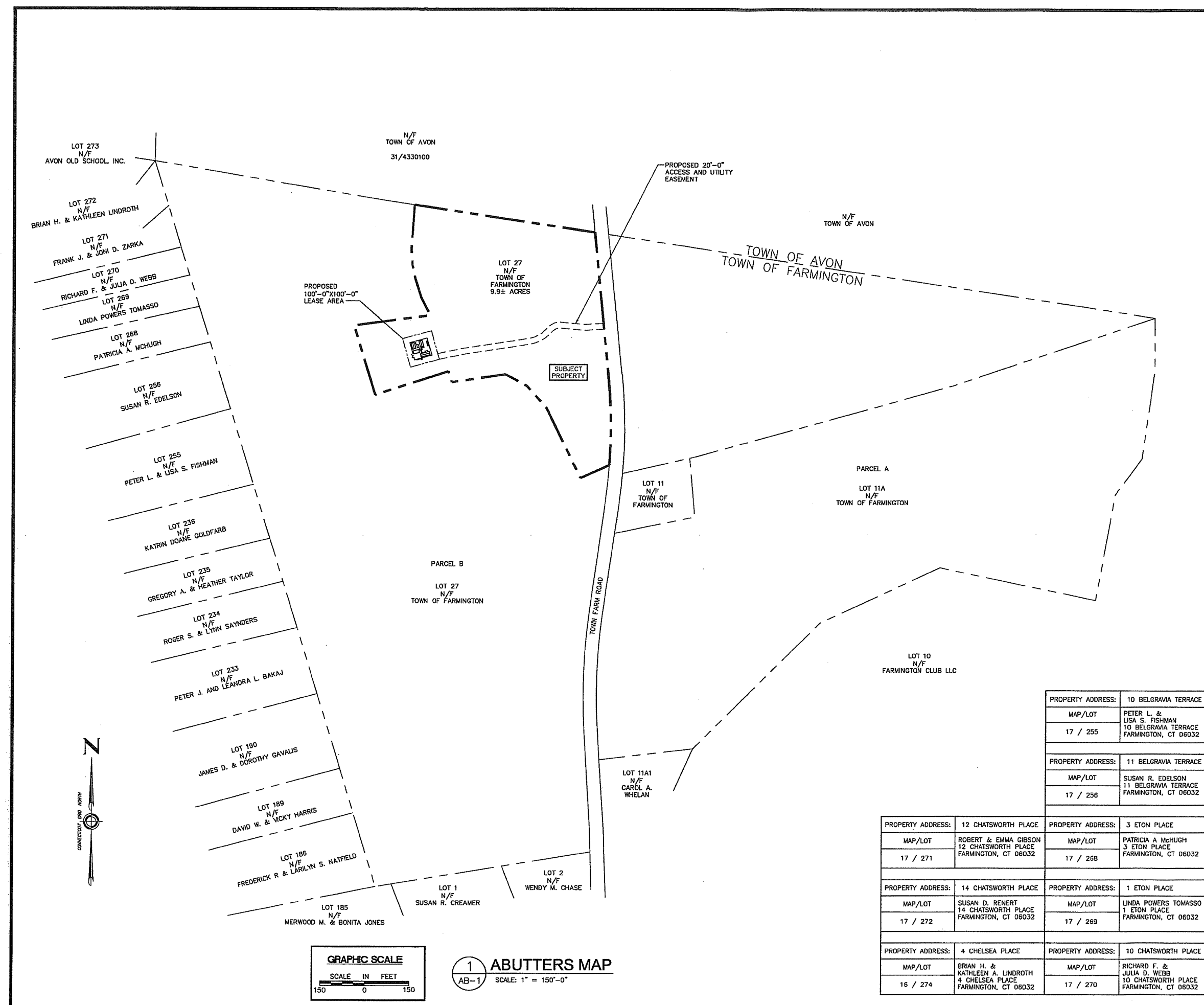
PROPERTY ADDRESS:	12 CHATSWORTH PLACE
MAP/LOT	ROBERT & EMMA GIBSON 12 CHATSWORTH PLACE FARMINGTON, CT 06032
17 / 271	
PROPERTY ADDRESS:	14 CHATSWORTH PLACE
MAP/LOT	SUSAN D. RENERT 14 CHATSWORTH PLACE FARMINGTON, CT 06032
17 / 272	
PROPERTY ADDRESS:	4 CHELSEA PLACE
MAP/LOT	BRIAN H. & KATHLEEN A. LINDROTH 4 CHELSEA PLACE FARMINGTON, CT 06032
16 / 274	

PROPERTY ADDRESS:	3 ETON PLACE
MAP/LOT	PATRICIA A McHUGH 3 ETON PLACE FARMINGTON, CT 06032
17 / 268	
PROPERTY ADDRESS:	1 ETON PLACE
MAP/LOT	LINDA POWERS TOMASSO 1 ETON PLACE FARMINGTON, CT 06032
17 / 269	
PROPERTY ADDRESS:	10 CHATSWORTH PLACE
MAP/LOT	RICHARD F. & JULIA D. WEBB 10 CHATSWORTH PLACE FARMINGTON, CT 06032
17 / 270	

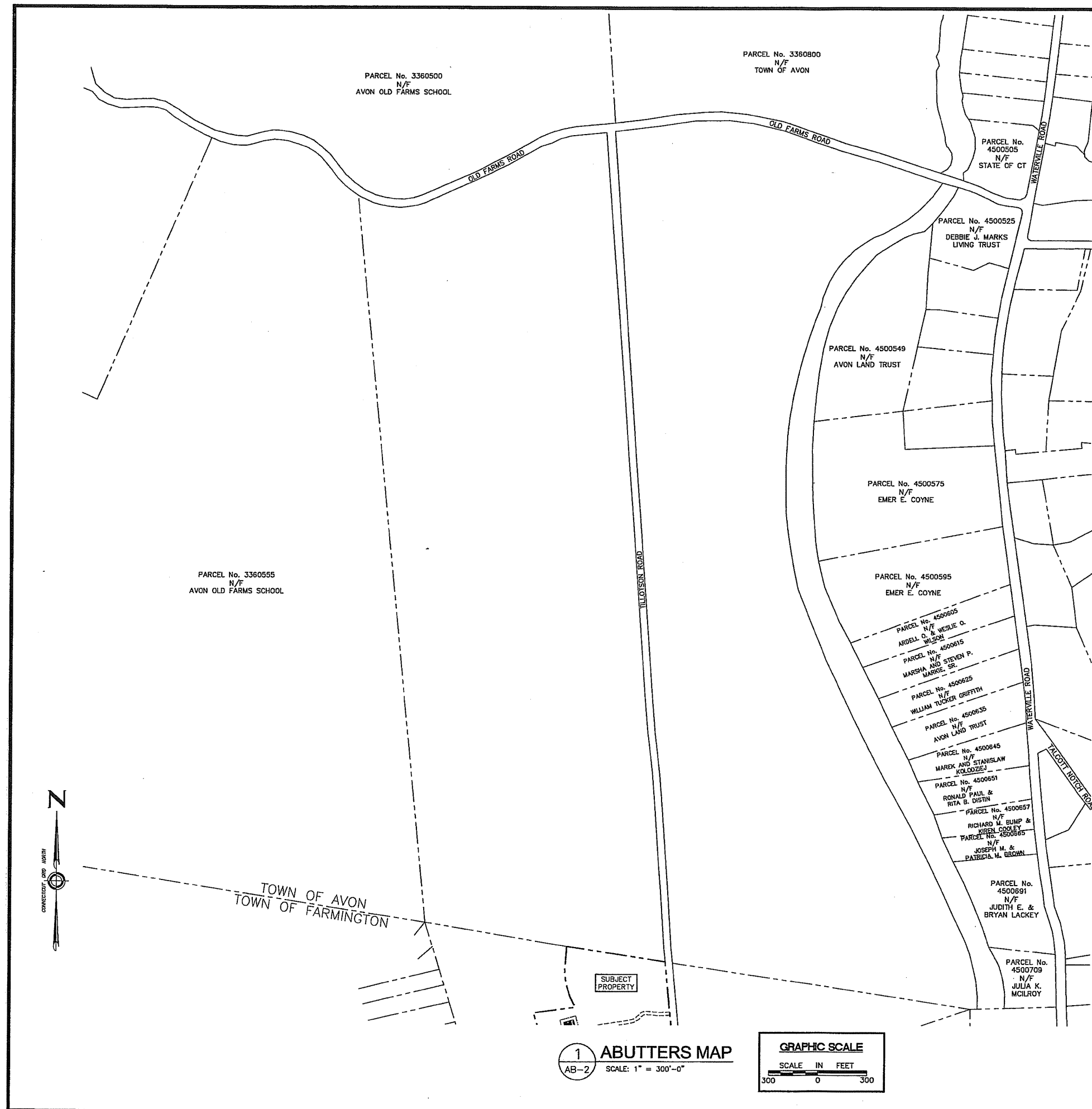
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MAP/LOT	DALE BARNHART 8 EXETER PARK FARMINGTON, CT 06032
2B / 234	
PROPERTY ADDRESS:	7 EXETER PARK
MAP/LOT	GREGORY A. & HEATHER TAYLOR 7 EXETER PARK FARMINGTON, CT 06032
17 / 235	
PROPERTY ADDRESS:	5 EXETER PARK
MAP/LOT	KATRINE DOANE GOLDFARB 5 EXETER PARK FARMINGTON, CT 06032
17 / 236	

PROPERTY ADDRESS:	10 CHATSWORTH PLACE
MAP/LOT	RICHARD F. & JULIA D. WEBB 10 CHATSWORTH PLACE FARMINGTON, CT 06032
17 / 270	

PROPERTY ADDRESS:	5 EXETER PARK
MAP/LOT	KATRINE DOANE GOLDFARB 5 EXETER PARK FARMINGTON, CT 06032
17 / 236	



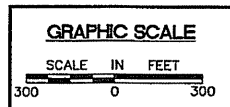
1 ABUTTERS MAP
 AB-1 SCALE: 1" = 150'-0"



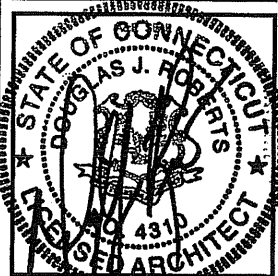
AVON ABUTTERS LIST

PROPERTY ADDRESS:	555 OLD FARMS ROAD
PARCEL No.	AVON OLD FARMS SCHOOL 500 OLD FARMS ROAD AVON, CT 06001
3360555	
PROPERTY ADDRESS:	500 OLD FARMS ROAD
PARCEL No.	AVON OLD FARMS SCHOOL 500 OLD FARMS ROAD AVON, CT 06001
3360500	
PROPERTY ADDRESS:	800 OLD FARMS ROAD
PARCEL No.	TOWN OF AVON 60 WEST MAIN STREET AVON, CT 06001
3360800	
PROPERTY ADDRESS:	709 WATERVILLE ROAD
PARCEL No.	JULIA K. MCILROY 709 WATERVILLE ROAD AVON, CT 06001
4500709	
PROPERTY ADDRESS:	691 WATERVILLE ROAD
PARCEL No.	JUDITH E. & BRYAN LACKEY 691 WATERVILLE ROAD AVON, CT 06001
4500691	
PROPERTY ADDRESS:	665 WATERVILLE ROAD
PARCEL No.	JOSEPH M. & PATRICIA M. BROWN 665 WATERVILLE ROAD AVON, CT 06001
4500665	
PROPERTY ADDRESS:	657 WATERVILLE ROAD
PARCEL No.	RICHARD M. BUMP & KIREN COOLEY 657 WATERVILLE ROAD AVON, CT 06001
4500657	
PROPERTY ADDRESS:	651 WATERVILLE ROAD
PARCEL No.	RONALD PAUL & RITA B. DISTIN 651 WATERVILLE ROAD AVON, CT 06001
4500651	
PROPERTY ADDRESS:	645 WATERVILLE ROAD
PARCEL No.	MAREK & STANISLAW KOLODZIEJ 645 WATERVILLE ROAD AVON, CT 06001
4500645	
PROPERTY ADDRESS:	645 WATERVILLE ROAD
PARCEL No.	MAREK & STANISLAW KOLODZIEJ 645 WATERVILLE ROAD AVON, CT 06001
4500645	
PROPERTY ADDRESS:	575 WATERVILLE ROAD
PARCEL No.	EMER E. COYNE 575 WATERVILLE ROAD AVON, CT 06001
4500575	
PROPERTY ADDRESS:	635 WATERVILLE ROAD
PARCEL No.	AVON LAND TRUST P.O. BOX 267 AVON, CT 06001
4500635	
PROPERTY ADDRESS:	549 WATERVILLE ROAD
PARCEL No.	AVON LAND TRUST P.O. BOX 267 AVON, CT 06001
4500549	
PROPERTY ADDRESS:	625 WATERVILLE ROAD
PARCEL No.	WILLIAM TUCKER GRIFFITH 625 WATERVILLE ROAD AVON, CT 06001
4500625	
PROPERTY ADDRESS:	525 WATERVILLE ROAD
PARCEL No.	DEBBIE J. MARKS, TRUSTEE DEBBIE J. MARKS LIVING TRUST 4045 HAPPY VALLEY RD. LAFAYETTE, CA 94549
4500525	
PROPERTY ADDRESS:	615 WATERVILLE ROAD
PARCEL No.	MARSHA & STEVEN P. MARKIE, SR. 615 WATERVILLE ROAD AVON, CT 06001
4500615	
PROPERTY ADDRESS:	605 WATERVILLE ROAD
PARCEL No.	ARDELL O. & WESLIE O. WILSON 605 WATERVILLE ROAD AVON, CT 06001
4500605	
PROPERTY ADDRESS:	505 WATERVILLE ROAD
PARCEL No.	STATE OF CONNECTICUT 2800 BERLIN TURNPIKE NEWINGTON, CT 06111
4500505	
PROPERTY ADDRESS:	605 WATERVILLE ROAD
PARCEL No.	EMER E. COYNE 575 WATERVILLE ROAD AVON, CT 06001
4500595	

1 ABUTTERS MAP
AB-2 SCALE: 1" = 300'-0"



A/E FIRM
URS CORPORATION AES
500 ENTERPRISE DRIVE, SUITE 3B
ROCKY HILL, CONNECTICUT
1-(866)-629-8882



PROJECT NO: 36931054.00002

JOB NO: VZ1 229

DRAWN BY: KAP

CHECKED BY:

ISSUED FOR	
0	01-03-08 SITING COUNCIL
1	01-18-08 REVIEW
2	03-12-08 REVIEW
3	03-19-08 REVIEW
4	03-21-08 SITING COUNCIL
5	11-04-08 SITING COUNCIL
6	01-13-09 SITING COUNCIL
7	01-14-09 SITING COUNCIL

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ANY USE OR DISCLOSURE
OTHER THAN THAT WHICH
RELATES TO VERIZON WIRE-
LESS IS STRICTLY PROHIBITED

FARMINGTON NORTH 2
199 TOWN FARM ROAD
FARMINGTON, CONNECTICUT
06032

SCALE: AS NOTED

ABUTTERS MAP
AND LIST
AVON

AB-2

SEDIMENTATION CONTROL FENCE SPECIFICATIONS

MAINTENANCE

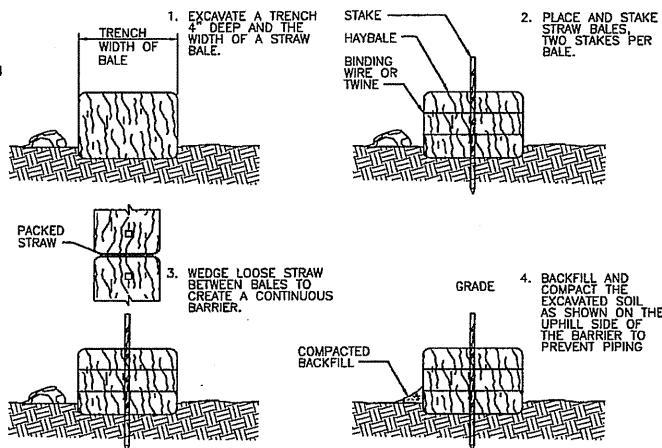
1. SILT FENCES SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. ANY REPAIRS THAT ARE REQUIRED SHALL BE MADE IMMEDIATELY.
2. IF THE FABRIC ON A SILT FENCE SHOULD DECOMPOSE OR BECOME INEFFECTIVE DURING THE EXPECTED LIFE OF THE FENCE, THE FABRIC SHALL BE REPLACED PROMPTLY.
3. SEDIMENT DEPOSITS SHOULD BE INSPECTED AFTER EVERY STORM EVENT, THE DEPOSITS SHOULD BE REMOVED WHEN THEY REACH APPROXIMATELY ONE-HALF THE HEIGHT OF THE BARRIER.
4. SEDIMENT DEPOSITS THAT ARE REMOVED OR LEFT IN PLACE AFTER THE FABRIC HAS BEEN REMOVED SHALL BE GRADED TO CONFORM WITH THE EXISTING TOPOGRAPHY AND VEGETATION.

CONSTRUCTION SEQUENCE

1. THE GEOTEXTILE FABRIC SHALL MEET THE DESIGN CRITERIA FOR SILT FENCES
2. THE FABRIC SHALL BE EMBEDDED A MINIMUM OF 8 INCHES INTO THE GROUND AND THE SOIL COMPACTED OVER THE EMBEDDED FABRIC.
3. WOVEN WIRE FENCES SHALL BE FASTENED TO THE FENCE POSTS WITH WIRE TIES OR STAPLES.
4. FILTER CLOTH SHALL BE FASTENED SECURELY TO THE WOVEN WIRE FENCE WITH TIES SPACED EVERY 24 INCHES AT THE TOP, MID-SECTION, AND BOTTOM.
5. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER, THEY SHALL BE OVERLAPPED BY 6 INCHES, FOLDED AND STAPLED.
6. FENCE POSTS SHALL BE A MINIMUM OF 36 INCHES LONG AND DRIVEN A MINIMUM OF 12 INCHES INTO THE GROUND. WOOD POSTS SHALL BE OF SOUND QUALITY HARDWOOD AND SHALL HAVE A MINIMUM CROSS SECTIONAL AREA OF 3.0 SQUARE INCHES.
7. MAINTENANCE SHALL BE PERFORMED AS NEEDED TO PREVENT BULGES IN THE SILT FENCE DUE TO DEPOSITION OF SEDIMENT.

EROSION CONTROL NOTES

1. DURING CONSTRUCTION AND THEREAFTER EROSION CONTROL MEASURES ARE TO BE IMPLEMENTED AS NOTED, NOT GREATER THAN 80,000 SQ. FT. OF LAND SHALL BE EXPOSED AT ANY ONE TIME DURING DEVELOPMENT. WHEN LAND IS EXPOSED DURING DEVELOPMENT, THE EXPOSURE SHOULD BE KEPT TO THE SHORTEST PRACTICAL PERIOD OF TIME AND SHALL NOT EXCEED 90 DAYS. LAND SHOULD NOT BE LEFT EXPOSED DURING THE WINTER MONTHS.
2. SILTATION FENCING SHALL BE INSTALLED WHERE SHOWN PRIOR TO ANY ON SITE GRADING OR DISTURBANCE OF EXISTING SURFACE MATERIAL. IT SHOULD BE MAINTAINED DURING AND AFTER DEVELOPMENT TO REMOVE SEDIMENT FROM RUNOFF WATER AND FROM LAND UNDERGOING DEVELOPMENT, WHERE POSSIBLE NATURAL DRAINAGE-WAYS SHOULD BE UTILIZED AND LEFT OPEN TO REMOVE EXCESS SURFACE WATER.
3. ALL DISTURBED AREAS AND SIDE SLOPES WHICH ARE FINISH GRADED WITH NO FURTHER CONSTRUCTION TO TAKE PLACE SHALL BE LOAMED AND SEEDED. A MINIMUM OF 4" OF LOAM SHALL BE INSTALLED.
4. ANY DISTURBED AREAS WHICH ARE TO BE LEFT TEMPORARILY, AND WHICH WILL BE REGRADED LATER DURING CONSTRUCTION SHALL BE MACHINELY MULCHED AND SEEDED WITH RYE GRASS TO PREVENT EROSION. HAY OR STRAW MULCH SHALL BE APPLIED TO ALL FRESHLY SEEDED AREAS AT A RATE OF 2 TONS PER ACRE. BALES SHALL BE UNSPOILED, AIR-DRIED, AND FREE FROM WEED, SEEDS AND ANY COARSE MATERIAL.



3 HAY BALE BARRIER DETAIL

SC-1 SCALE: N.T.S.

SWALE NOTES

1. THE SWALE SHALL BE EXCAVATED AS SHOWN ON THE DRAWINGS.
2. ALL BRUSH, TREES, STUMPS AND SIMILAR MATERIAL SHALL BE REMOVED FROM THE CONSTRUCTION AREA AND DISPOSED OF IN SUCH A MANNER AS NOT TO INTERFERE WITH PROPER FUNCTIONING OF THE SWALE.
3. SOIL REMOVED FROM SWALE SHALL BE DEPOSITED WHERE IT WILL NOT INTERFERE WITH FLOW OF WATER IN THE SWALE.
4. THE TOPSOIL MAY BE SAVED AND SPREAD IN THE CONSTRUCTED SWALE IF NECESSARY FOR OBTAINING A GOOD VEGETATIVE COVER. WHERE THIS IS DONE THE SWALE SHALL BE OVER-EXAGGERATED TO ALLOW FOR REPLACEMENT OF THE TOPSOIL WITHOUT ENCRDACHING ON THE DESIGN CROSS SECTION.
5. VEGETATION IN SWALE SHALL BE ESTABLISHED BY SEEDING, SEE BELOW FOR SEEDING SPECIFICATION.
6. JUTE MESH WITH MULCH AND TACKIFIER SHALL BE USED TO PROTECT THE CENTER PORTION OF THE WATERWAY UNTIL VEGETATION BECOMES ESTABLISHED.
7. INSTALL JUTE MESH ACCORDING TO MANUFACTURERS RECOMMENDATIONS.

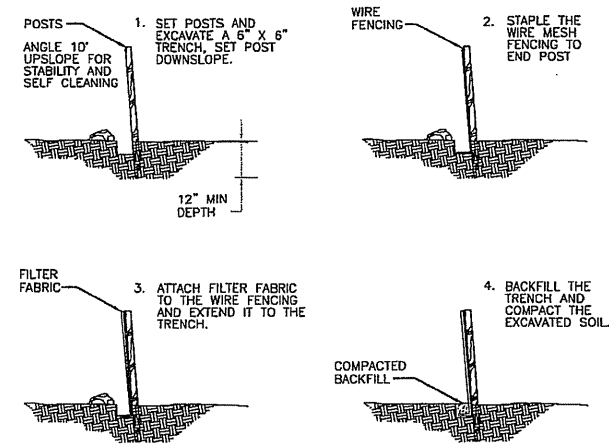
SEEDING RECOMMENDATIONS AND SPECIFICATIONS

1. APPLY LIMESTONE AND FERTILIZER ACCORDING TO SOIL TEST RESULTS OR 300 POUNDS 10-10-10 AND 2 TONS OF LIME PER ACRE.
2. RECOMMENDED SEEDING DATES ARE APRIL 1 - JUNE 15 AND AUGUST 15 - SEPTEMBER 30.
3. MULCH ALL DISTURBED AREAS WITH STRAW OR HAY AT THE RATE OF 100 LBS/1000 FT

SEEDING REQUIREMENTS

SEED MIXTURE	LBS/ACRE	LBS/1000 SQ. FT.
KENTUCKY BLUEGRASS	20	.5
PERENNIAL RYE	5	.125
CREeping RED FESCUE	20	.5
TOTAL	45	1.125

* NOTE: OTHER SUITABLE SEED MIXTURES MAY BE USED INSTEAD OF THE ABOVE

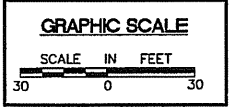
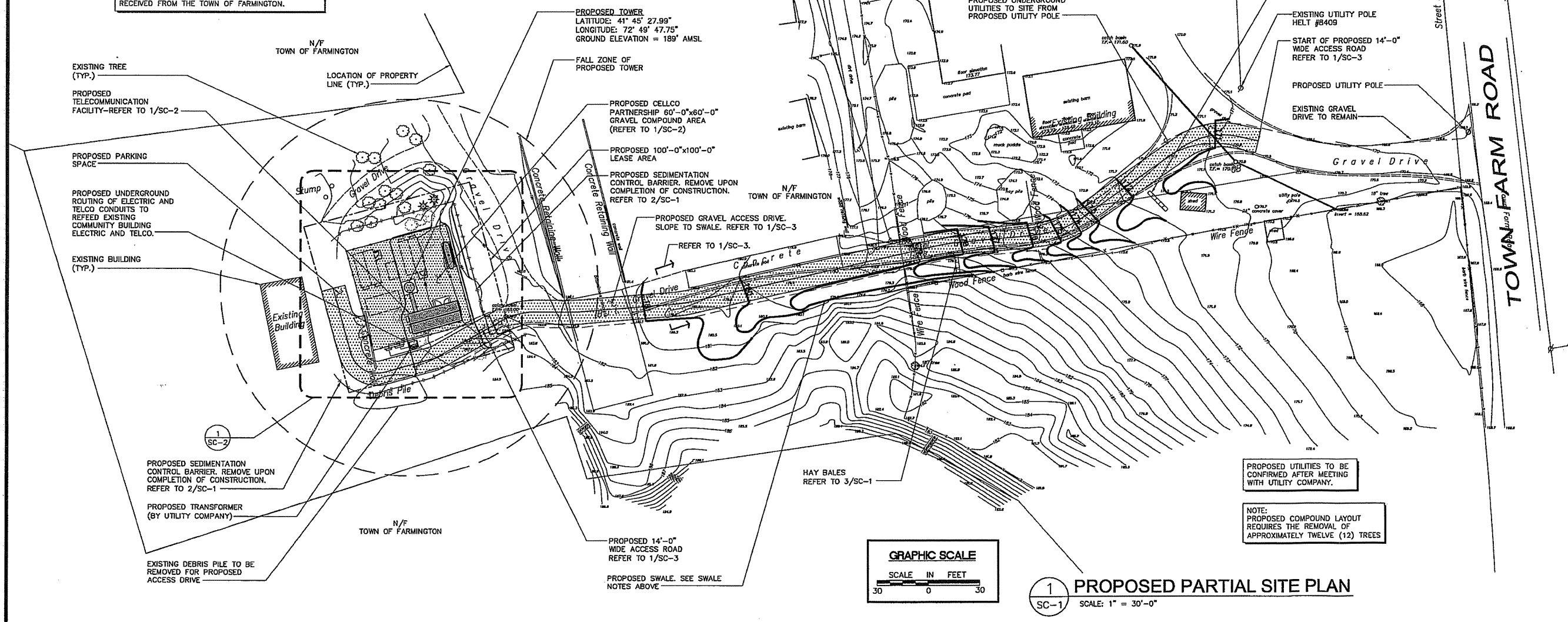


2 SEDIMENTATION CONTROL BARRIER

SC-1 SCALE: N.T.S.

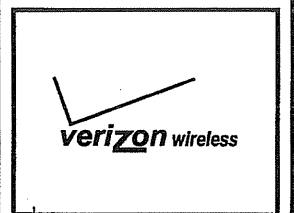
SITE PLAN INFORMATION

THIS COMPOUND DRAWING WAS COMPILED FROM DATA COLLECTED IN THE FIELD, AVAILABLE EXISTING DRAWINGS OF THE SUBJECT AREA AND FROM DATA RECEIVED FROM THE TOWN OF FARMINGTON.

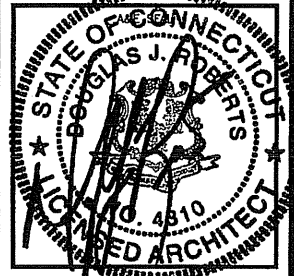


1 PROPOSED PARTIAL SITE PLAN

SC-1 SCALE: 1" = 30'-0"



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500 ENTERPRISE DRIVE, SUITE 3B
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FARMINGTON, CONNECTICUT
06032

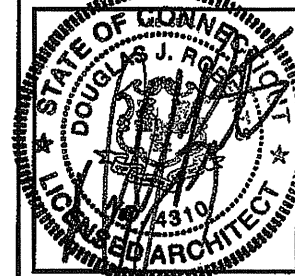
SCALE: AS NOTED

PARTIAL SITE PLAN, NOTES AND DETAIL

SC-1



A&E FIRM
URS CORPORATION AES
 500 ENTERPRISE DRIVE, SUITE 3B
 ROCKY HILL, CONNECTICUT
 1-(860)-529-8882



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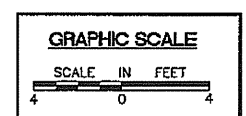
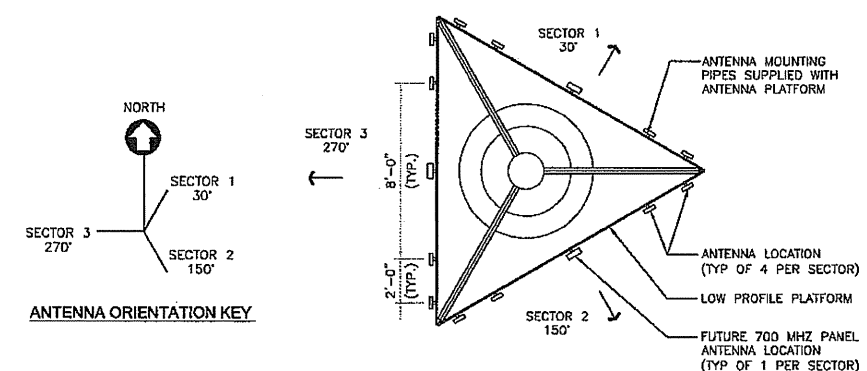
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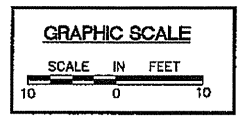
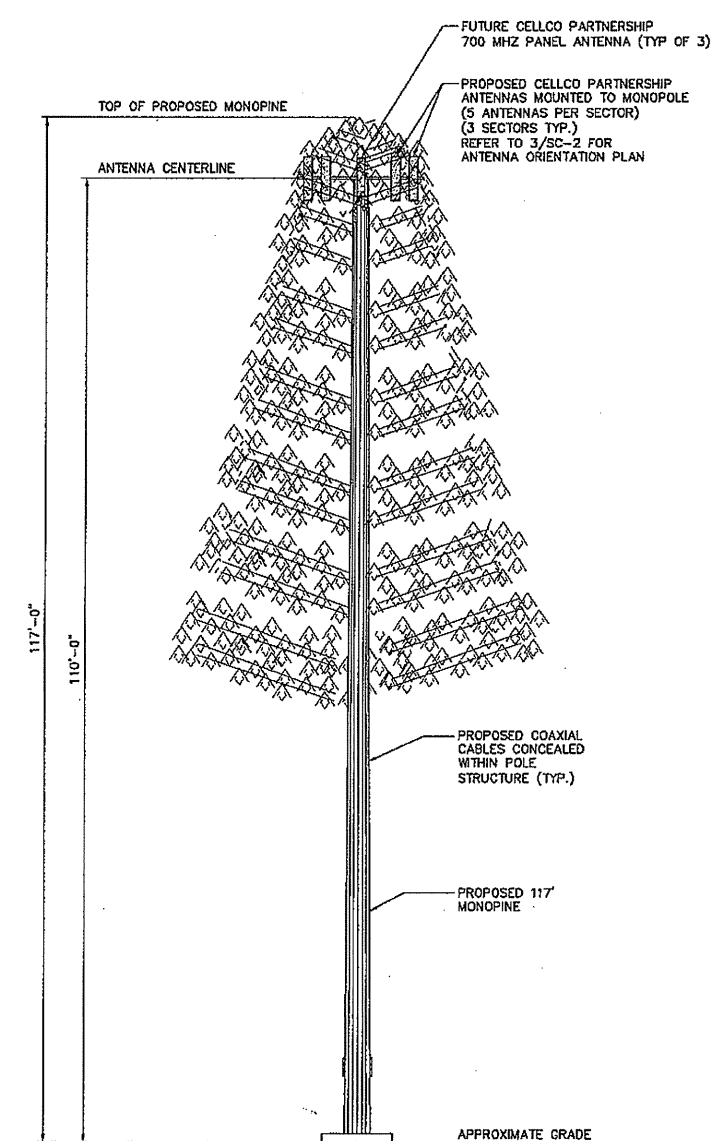
SCALE: AS NOTED

COMPOUND PLAN,
 TOWER ELEVATION,
 AND ANTENNA
 ORIENTATION PLAN

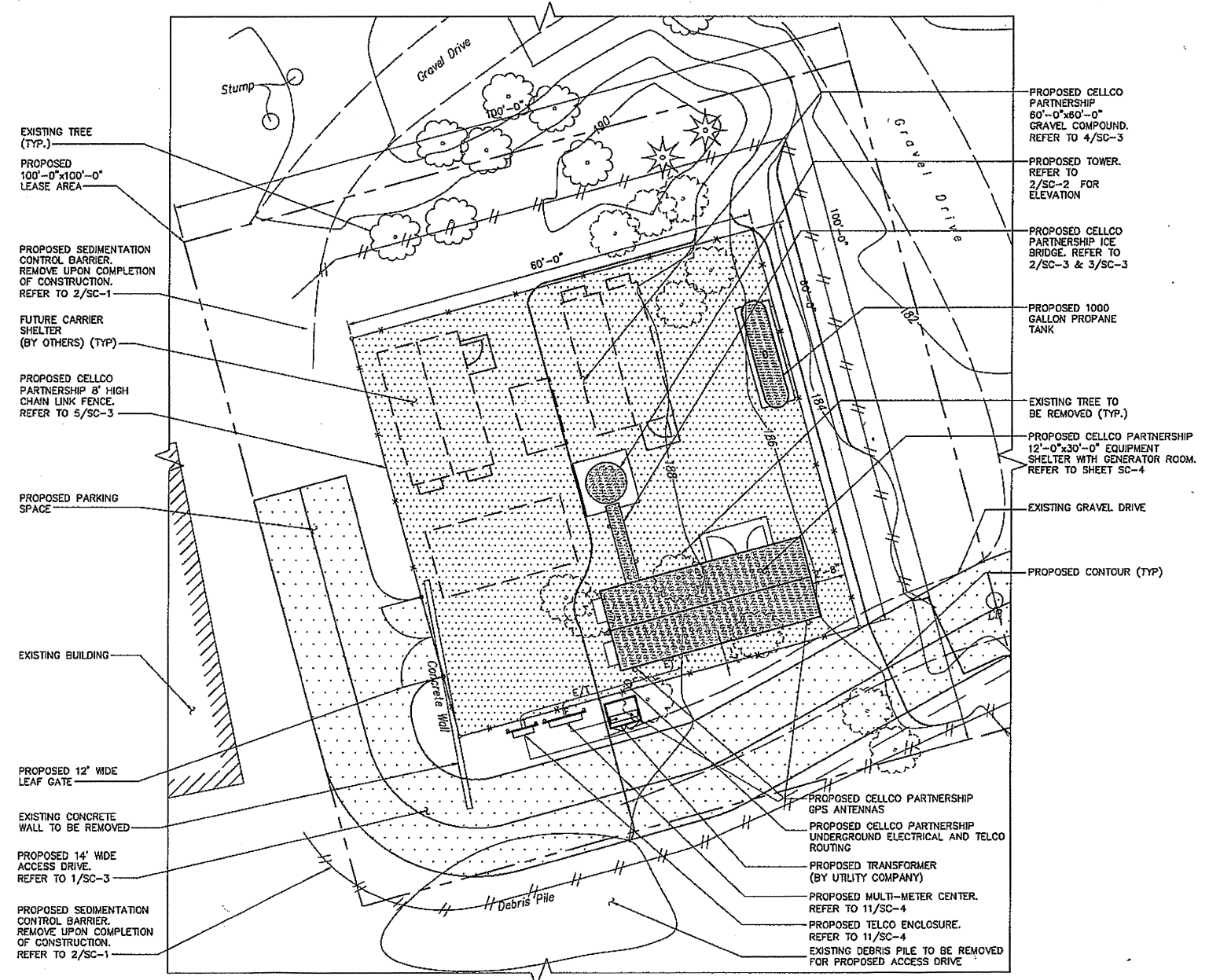
SC-2



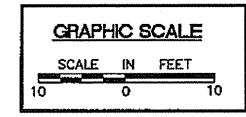
3 VERIZON WIRELESS ANTENNA ORIENTATION PLAN
 SC-2 SCALE: 1/4" = 1'-0"



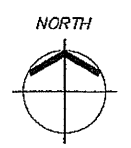
2 MONOPINE ELEVATION
 SC-2 SCALE: 1" = 10'-0"

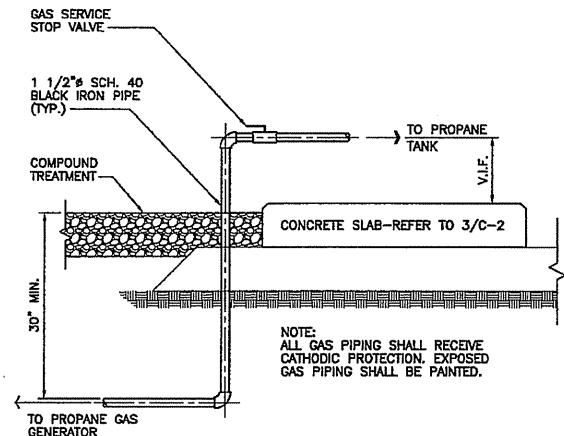


NOTE: PROPOSED COMPOUND LAYOUT REQUIRES THE REMOVAL OF APPROXIMATELY TWELVE (12) TREES



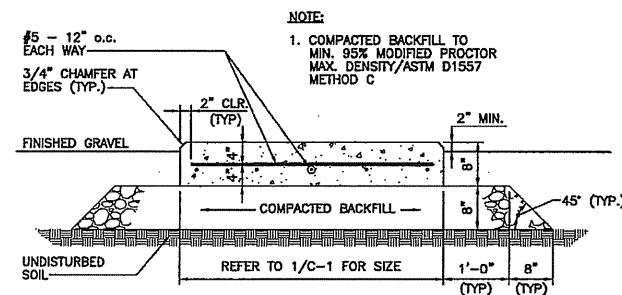
1 COMPOUND PLAN
 SC-2 SCALE: 1" = 10'-0"





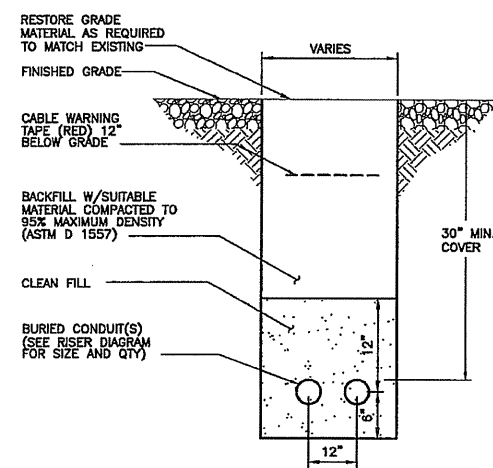
- SCHEDULE 40 BLACK STEEL UNDERGROUND PIPING W/CATHODIC PROTECTION (TYP.). REFER TO DETAIL ABOVE FOR TRENCHING AND PIPING DETAILS.
- PROPANE TANK SHALL COMPLY WITH ASME CODE FOR PRESSURE VESSELS, (SECTION III DIVISION 1) MANUFACTURER SHALL X-RAY TEST THE TANK AS REQUIRED BY ASME CODE. FURNISH AND INSTALL ALL ACCESSORIES SUCH AS PRIMARY AND SECONDARY PRESSURE REGULATORS, PRESSURE GAUGES, PROPANE APPROVED CARBURETOR (FURNISHED WITH GENERATOR) GAS LEAK DETECTOR, SHUT-OFF VALVES, ISOLATION VALVES, APPROVED PROPANE GAS TRAIN, LEVEL SENSOR, CABLE, INDICATOR ETC. AS REQUIRED TO COMPLETE THE WORK. CONTRACTOR TO PROVIDE ADDITIONAL FLEXIBLE CONNECTION AT GENERATOR. GENERATOR COMES EQUIPPED WITH FUEL REGULATOR, FLEXIBLE HOSE AND FUEL SOLENOID.

7 TYPICAL PIPING CONNECTION TO GENERATOR
SCALE: N.T.S.



- NOTE:**
- WHERE EXISTING UTILITIES ARE LIKELY TO BE ENCOUNTERED, CONTRACTOR SHALL HAND DIG AND PROTECT EXISTING UTILITIES.

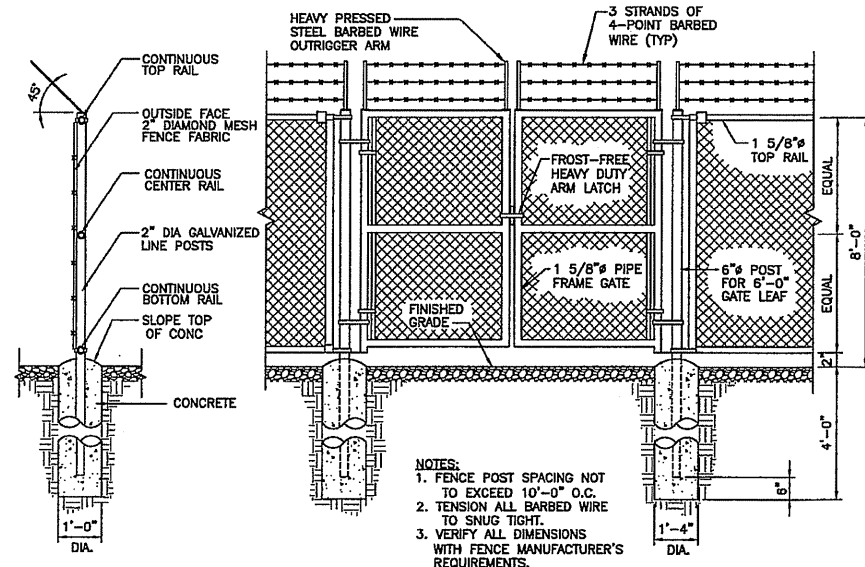
9 TYPICAL BURIED GAS LINE DETAIL
SCALE: 3/4"=1'-0"



- NOTES:**
- THE CLEAN FILL SHALL PASS THROUGH A 3/8" MESH SCREEN AND SHALL NOT CONTAIN SHARP STONES, OTHER BACKFILL, LOOSE DEBRIS OR STONES LARGER THAN 2" IN MAXIMUM DIMENSION. THE TRENCH SHALL BE BACKFILLED IMMEDIATELY FOLLOWING PLACEMENT OF THE CONDUITS.
 - WHERE EXISTING UTILITIES ARE LIKELY TO BE ENCOUNTERED, CONTRACTOR SHALL HAND DIG AND PROTECT EXISTING UTILITIES.

8 TYPICAL UTILITY TRENCH DETAIL
SCALE: N.T.S.

6 CONCRETE SLAB DETAIL (PROPANE TANK)
SCALE: 3/4"=1'-0"



- NOTES:**
- FENCE POST SPACING NOT TO EXCEED 10'-0" O.C.
 - TENSION ALL BARBED WIRE TO SNUG TIGHT.
 - VERIFY ALL DIMENSIONS WITH FENCE MANUFACTURER'S REQUIREMENTS.

5 CHAIN LINK FENCE DETAIL
SCALE: N.T.S.

SITE NOTES

- THE FOLLOWING STANDARD SPECIFICATIONS ARE INCORPORATED INTO THE WORK SHOWN HEREIN UNLESS SUPERSEDED BY LOCAL (FARMINGTON) REGULATIONS:
 - STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR ROADS, BRIDGES AND INCIDENTAL CONSTRUCTION" FORM 816 ENGLISH & METRIC FORM 816 ORIGINAL
 - FORM 816 SUMMARY OF CHANGES
 - SUPPLEMENT FORM 816 JANUARY 2005
 - SUPPLEMENT FORM 816 JULY 2005
 - DEP BULLETIN 34, CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL DATED 2002.
- THE CONTRACTOR SHALL INSTALL ALL EROSION AND SEDIMENTATION CONTROL PRIOR TO ANY GRADING ACTIVITIES AND MAINTAIN SEDIMENTATION CONTROLS AT ALL TIMES DURING CONSTRUCTION. ALL SOIL EROSION AND SEDIMENTATION CONTROL MEASURES ARE SUBJECT TO INSPECTION AND MONITORING BY THE TOWN.
- ALL AREAS DISTURBED BY THE CONSTRUCTION OF IMPROVEMENTS SHOWN HEREON SHALL BE REESTABLISHED TO EXISTING CONDITIONS.
- COORDINATION, LAYOUT AND FURNISHING OF CONDUIT, CABLE AND ALL APPURTENANCES REQUIRED FOR PROPER INSTALLATION OF ELECTRICAL AND TELECOMMUNICATION SERVICE SHALL BE SOLELY THE RESPONSIBILITY OF THE CONTRACTOR.
- THE EXACT SHELTER FOUNDATION SIZE AND SHELTER FLOOR PENETRATIONS FOR UTILITIES SHALL BE CONFIRMED WITH THE SHELTER SPECIFICATIONS AND PLANS PRIOR TO LAYOUT.
- ALL UTILITY WORK SHALL BE IN ACCORDANCE WITH LOCAL UTILITY COMPANY REQUIREMENTS AND SPECIFICATIONS.
- THE CONTRACTOR SHALL CONTACT "CALL BEFORE YOU DIG" AT LEAST 48 HOURS PRIOR TO ANY EXCAVATIONS.
- IF ANY FIELD CONDITIONS PRECLUDE COMPLIANCE WITH THE DRAWINGS AND/OR CONDITIONS SPECIFIED, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THIS CELLULAR CARRIER AND SHALL NOT PROCEED WITH ANY AFFECTED WORK.
- THE CONTRACTOR SHALL STABILIZE ALL UTILITY LINE TRENCHES WITHIN FIVE WORKING DAYS AFTER EXCAVATION UNLESS OTHERWISE APPROVED BY THIS CELLULAR CARRIER.

SOIL

- SOIL BEARING CAPACITY OF 3,000 PSF USED FOR FOUNDATION DESIGN. GENERAL CONTRACTOR RESPONSIBLE FOR VERIFYING BEARING CAPACITIES.
- ALL SURFACES MUST BE FREE OF STANDING WATER PRIOR TO PLACING CONCRETE.
- COMPACTED GRAVEL FILL PER CONNECTICUT DOT STANDARD SPEC. SECTION M.02.01 AND ASTM D1557.
- CONTACT THE ENGINEER IF GROUND WATER IS IN ENCOUNTERED AND DEWATERING IS REQUIRED.

CONCRETE

- ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH THE ACI 301, ACI 318 AND THE SPECIFICATION CAST-IN-PLACE CONCRETE.
- ALL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3500 PSI AT 28 DAYS, UNLESS NOTED OTHERWISE. CONCRETE SHALL BE AIR ENTRAINED TO (4% TO 6%) AND SLUMP OF 3" TO 5".
- REINFORCING STEEL SHALL CONFORM TO ASTM A 615, GRADE 60, DEFORMED UNLESS NOTED OTHERWISE. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A 185 WELDED STEEL WIRE FABRIC UNLESS NOTED OTHERWISE. SPLICES SHALL BE CLASS "B" AND ALL HOOKS SHALL BE STANDARD, UNO.
- THE FOLLOWING MINIMUM CONCRETE COVER SHALL BE PROVIDED FOR REINFORCING STEEL UNLESS SHOWN OTHERWISE ON DRAWINGS:
 - CONCRETE CAST AGAINST EARTH.....3 IN.
 - CONCRETE EXPOSED TO EARTH OR WEATHER:
 - #6 AND LARGER2 IN.
 - #5 AND SMALLER & WWF1 1/2 IN.
 - CONCRETE NOT EXPOSED TO EARTH OR WEATHER OR NOT CAST AGAINST THE GROUND:
 - SLAB AND WALL3/4 IN.
 - BEAMS AND COLUMNS1 1/2 IN.

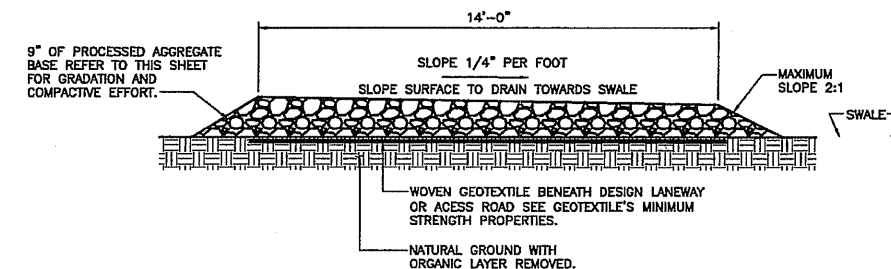
- A CHAMFER 3/4" SHALL BE PROVIDED AT ALL EXPOSED EDGES OF CONCRETE, UNO, IN ACCORDANCE WITH ACI 301 SECTION 4.2.4.
- INSTALLATION OF CONCRETE EXPANSION/WEDGE ANCHOR, SHALL BE PER MANUFACTURER'S WRITTEN RECOMMENDED PROCEDURE. THE ANCHOR BOLT, DOWEL OR ROD SHALL CONFORM TO MANUFACTURER'S RECOMMENDATION FOR EMBEDMENT DEPTH OR AS SHOWN ON THE DRAWINGS. NO REBAR SHALL BE CUT WITHOUT PRIOR ENGINEERING APPROVAL WHEN DRILLING HOLES IN CONCRETE.
- COLD WEATHER CONCRETE PLACING SHALL BE IN ACCORDANCE WITH ACI-305.
- NO FOOTING SHALL BE PLACED ON FROZEN GROUND. UNCURED CONCRETE SHALL BE PROTECTED AGAINST FROST.
- APPLY NON-SLIP BROOM FINISH IMMEDIATELY AFTER TROWEL FINISHING.

GEOTEXTILE NOTES:

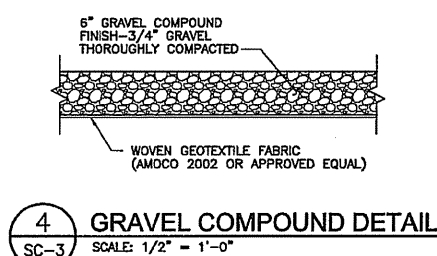
GEOTEXTILE SHALL BE USED BENEATH DESIGN HEAVY USE AREA GRAVEL LAYER AS NOTED IN THE DRAWINGS, OR AS SPECIFIED BY THE NRCS PROJECT ENGINEER.

THIS MATERIAL MUST MEET "HIGH SURVIVABILITY CRITERIA"

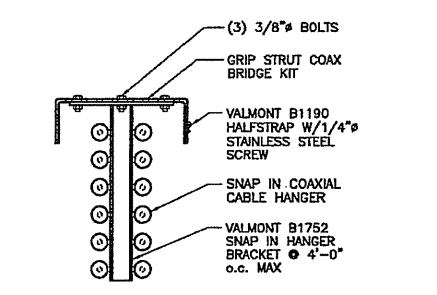
- GRAB STRENGTH: ASTM D-1682 = 320 LBS. OR BETTER
- PUNCTURE STRENGTH: ASTM D-751-68 = 65 LBS. OR BETTER
- BURST STRENGTH: ASTM D-751-68 = 290 PSI OR BETTER
- TEAR STRENGTH: ASTM D-1117 = 55 LBS. OR BETTER



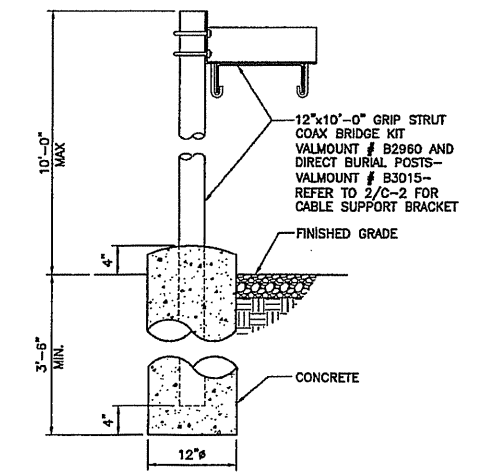
1 GRAVEL ACCESS DRIVE TYPICAL SECTION
SCALE: N.T.S.



4 GRAVEL COMPOUND DETAIL
SCALE: 1/2" = 1'-0"



3 ICE BRIDGE DETAIL
SCALE: 1 1/2" = 1'-0"

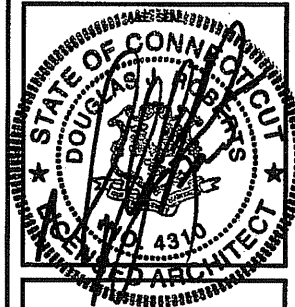


- NOTE:**
- MAXIMUM 10' SPACING BETWEEN POST SUPPORTS
 - 3 POSTS REQUIRED

2 ICE BRIDGE DETAIL
SCALE: 1" = 1'-0"



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SCALE: AS NOTED

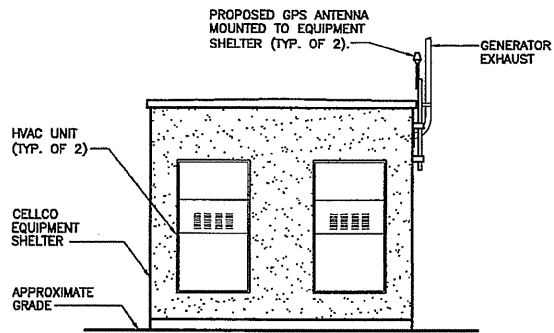
SITE DETAILS AND NOTES

SC-3

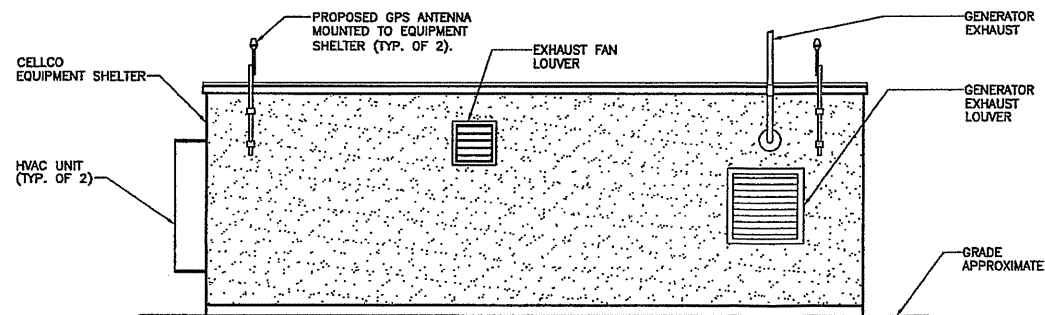
STRUCTURAL NOTES

FOUNDATION NOTES

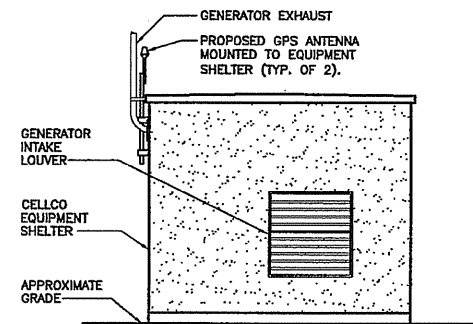
1. A PRESUMPTIVE SOIL BEARING CAPACITY OF 3000 PSF WAS USED FOR THE FOUNDATION DESIGN. THE GENERAL CONTRACTOR IS TO CONFIRM THE SPECIFIED SOIL BEARING PRESSURE.
2. ALL FOOTINGS SHALL BEAR ON EXISTING UNDISTURBED ORGANIC FREE SOIL. ALL UNSUITABLE SOIL SHALL BE REMOVED AS DIRECTED BY THE ENGINEER AND REPLACED WITH COMPACTED GRAVEL PLACED IN 8" LAYERS AND COMPACTED TO 95% OF MODIFIED OPTIMUM DENSITY.
3. ALL FOOTINGS TO BE A MINIMUM OF 3'-6" BELOW FINISH GRADE UNLESS OTHERWISE NOTED. EXCEPT WHERE ROCK OR LEDGE OCCURS, PIN FOUNDATION TO ROCK.
4. INSTALLATION OF CONCRETE EXPANSION/WEDGE ANCHOR, SHALL BE PER MANUFACTURER'S WRITTEN RECOMMENDED PROCEDURE. THE ANCHOR BOLT, DOWEL OR ROD SHALL CONFORM TO MANUFACTURER'S RECOMMENDATION FOR EMBEDMENT DEPTH OR AS SHOWN ON THE DRAWINGS. NO REBAR SHALL BE CUT WITHOUT PRIOR ENGINEERING APPROVAL WHEN DRILLING HOLES IN CONCRETE.



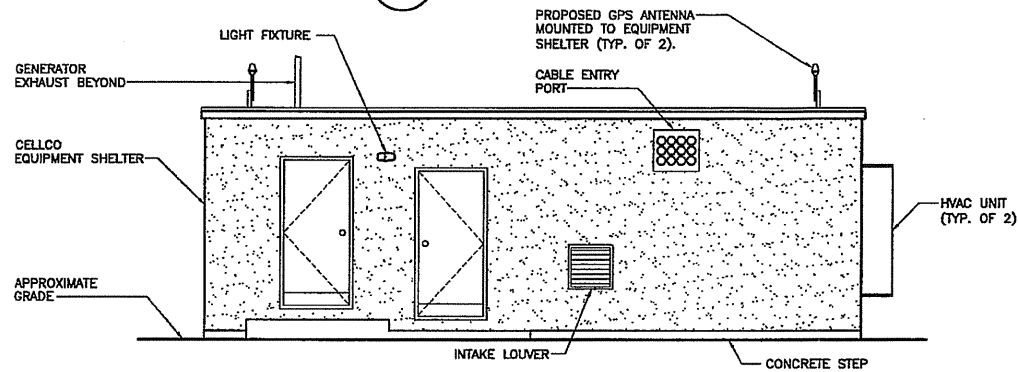
10 WEST ELEVATION
SC-4 SCALE: 1/4" = 1'-0"



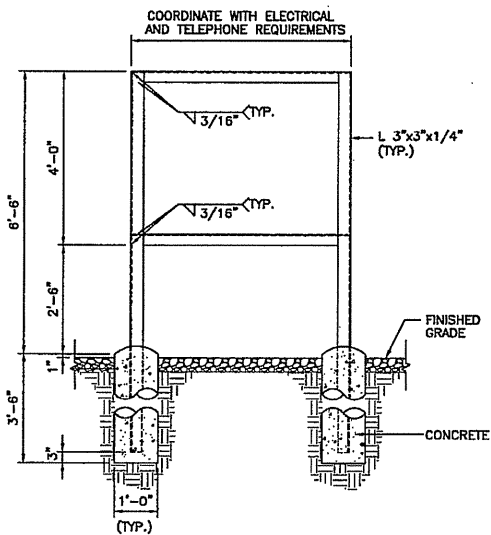
9 SOUTH ELEVATION
SC-4 SCALE: 1/4" = 1'-0"



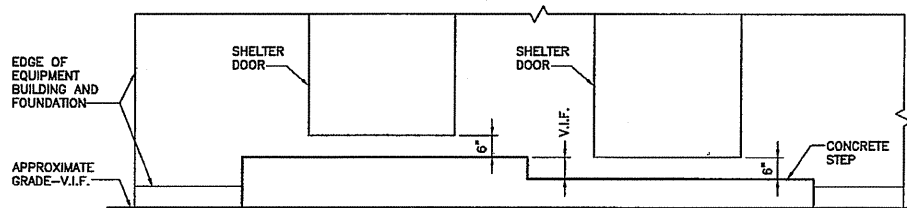
8 EAST ELEVATION
SC-4 SCALE: 1/4" = 1'-0"



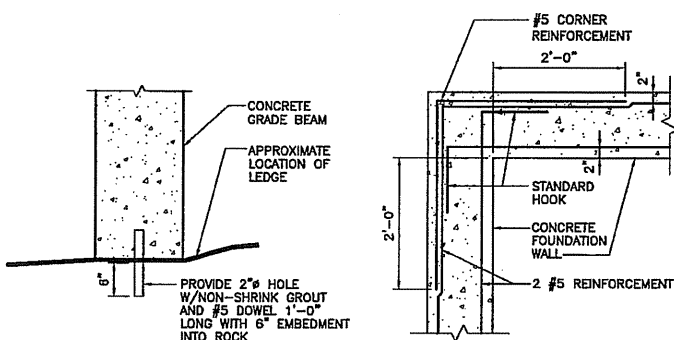
7 NORTH ELEVATION
SC-4 SCALE: 1/4" = 1'-0"



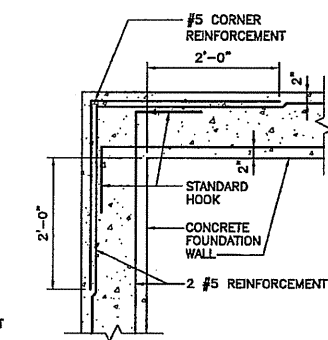
11 ELECTRIC-TELCO SERVICE FRAME DETAIL
SC-4 SCALE: N.T.S.



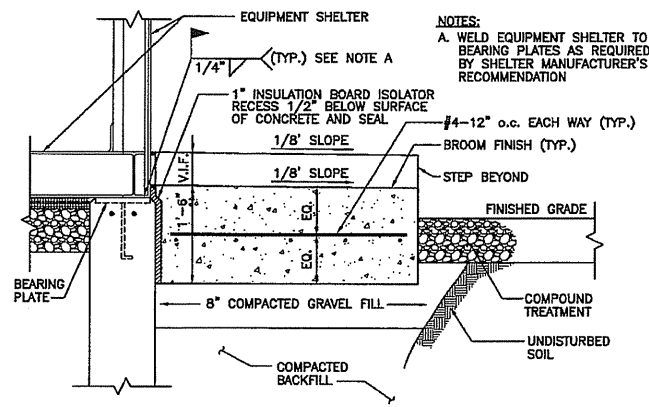
6 CONCRETE STEP DETAIL
SC-4 SCALE: N.T.S.



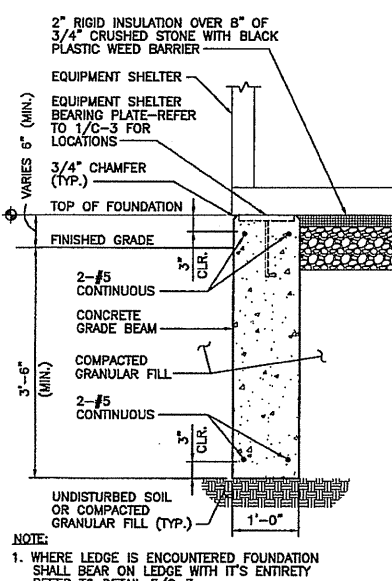
5 PINNED FOUNDATION
SC-4 SCALE: 3/4" = 1'-0"



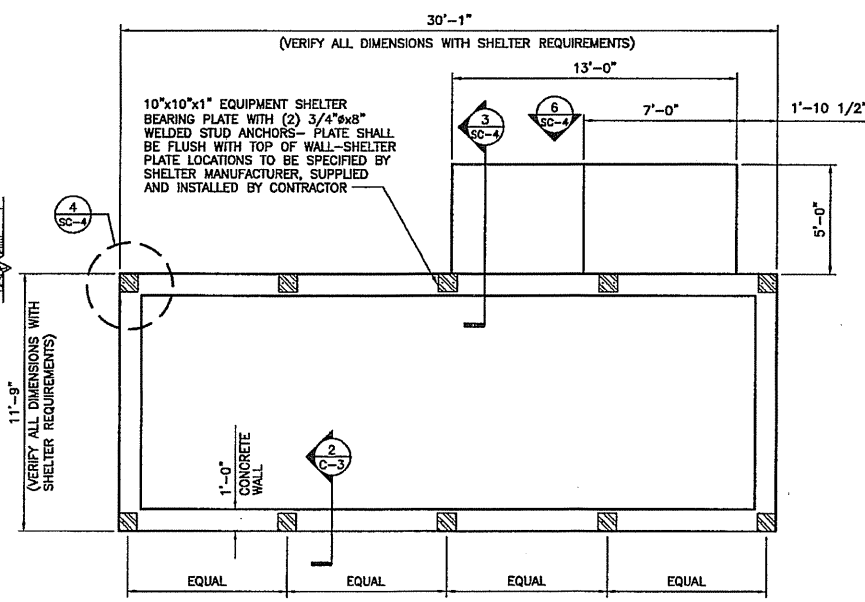
4 FOUNDATION CORNER
SC-4 SCALE: 3/4" = 1'-0"



3 CONCRETE STEP DETAIL
SC-4 SCALE: 3/4" = 1'-0"



2 FOUNDATION SECTION
SC-4 SCALE: 3/4" = 1'-0"

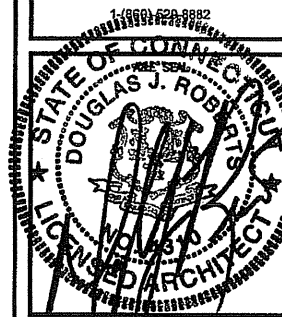


1 FOUNDATION PLAN
SC-4 SCALE: 1/4" = 1'-0"



A/E FIRM
URS CORPORATION AES

500 ENTERPRISE DRIVE, SUITE 3B
ROCKY HILL, CONNECTICUT



PROJECT NO: 36931054.00002

JOB NO: VZ1 229

DRAWN BY: KAP

CHECKED BY:

ISSUED FOR	
0	01-03-08 SITING COUNCIL
1	01-18-08 REVIEW
2	03-12-08 REVIEW
3	03-19-08 REVIEW
4	03-21-08 SITING COUNCIL
5	11-04-08 SITING COUNCIL
6	01-13-09 SITING COUNCIL
7	01-14-09 SITING COUNCIL

THE INFORMATION CONTAINED IN THIS SET OF DOCUMENTS IS PROPRIETARY BY NATURE. ANY USE OR DISCLOSURE OTHER THAN THAT WHICH RELATES TO VERIZON WIRELESS IS STRICTLY PROHIBITED

FARMINGTON NORTH 2

199 TOWN FARM ROAD
FARMINGTON, CONNECTICUT
06032

SCALE: AS NOTED

EQUIPMENT SHELTER
FOUNDATION PLAN,
ELEVATIONS,
DETAILS AND NOTES

SC-4

APPLICATION GUIDE¹

- App. P. i (A) An Executive Summary on the first page of the application with the address, proposed height, and type of tower being proposed. A map showing the location of the proposed site should accompany the description;
- App. pp. 1-4 (B) A brief description of the proposed facility, including the proposed locations and heights of each of the various proposed sites of the facility, including all candidates referred to in the application;
- App. pp. 1-2 (C) A statement of the purpose for which the application is made;
- App. p. 1 (D) A statement describing the statutory authority for such application;
- App. p. 4 (E) The exact legal name of each person seeking the authorization or relief and the address or principal place of business of each such person. If any applicant is a corporation, trust association, or other organized group, it shall also give the state under the laws of which it was created or organized;
- App. p. 4 (F) The name, title, address and telephone number of the attorney or other person to whom correspondence or communications in regard to the application are to be addressed. Notice, orders, and other papers may be served upon the person so named, and such service shall be deemed to be service upon the applicant;
- App. pp. 7-8
Attachments 1 and 7 (G) A statement of the need for the proposed facility with as much specific information as is practicable to demonstrate the need, including a description of the proposed system and how the proposed facility would eliminate or alleviate any existing deficiency or limitation;
- App. p. 12 (H) A statement of the benefits expected from the proposed facility with as much specific information as is practicable;

¹ This Application Guide is copied directly from the "Connecticut Siting Council Application Guide," Section VI, as amended February 16, 2007. References to the Regulations of Connecticut State Agencies ("RCSA") contained in the Guide have been omitted.

App. pp. 1-4, 9-12
Attachments 1 and 7

- (I) A description of the proposed facility at the named sites including:
- (1) Height of the tower and its associated antennas including a maximum “not to exceed height” for the facility, which may be higher than the height proposed by the Applicant;
 - (2) Access roads and utility services;
 - (3) Special design features;
 - (4) Type, size, and number of transmitters and receivers, as well as the signal frequency and conservative worst-case and estimated operational level approximation of electro magnetic radio frequency power density levels (facility using FCC Office of Engineering and Technology Bulletin 65, August 1997) at the base of the tower base, site compound boundary where persons are likely to be exposed to maximum power densities from the facility;
 - (5) A map showing any fixed facilities with which the proposed facility would interact;
 - (6) The coverage signal strength, and integration of the proposed facility with any adjacent fixed facility, to be accompanied by multi-colored propagation maps of red, green and yellow (exact colors may differ depending on computer modeling used, but a legend is required to explain each color used) showing interfaces with any adjacent service areas, including a map scale and north arrows; and
 - (7) For cellular systems, a forecast of when maximum capacity would be reached for the proposed facility and for facilities that would be integrated with the proposed facility.

Attachment 1

- (J) A description of the named sites, including:
- (1) The most recent U.S.G.S. topographic quadrangle map (scale 1 inch = 2,000 feet) marked to show the site of the facility and any significant changes within a one-mile radius of the site;
 - (2) A map (scale not less than 1 inch = 200 feet) of the lot or tract on which the facility is proposed to be located showing the acreage and dimensions of such site, the name and location of adjoining public roads or the nearest public road, and the names of abutting owners and the portions of their lands abutting the site;
 - (3) A site plan (scale not less than 1 inch = 40 feet) showing the proposed facility, set back radius, existing and proposed contour elevations, 100-year flood zones, waterways, wetlands, and all associated equipment and structures on the site;
 - (4) Where relevant, a terrain profile showing the proposed facility and access road with existing and proposed grades; and
 - (5) The most recent aerial photograph (scale not less than 1 inch = 1,000 feet) showing the proposed site, access roads, and all abutting properties.

Attachment 1

- (K) A statement explaining mitigation measures for the proposed facility including:
- (1) Construction techniques designed specifically to minimize adverse effects on natural areas and sensitive areas;
 - (2) Special design features made specifically to avoid or minimize adverse effects on natural areas and sensitive areas;
 - (3) Establishment of vegetation proposed near residential, recreation, and scenic areas; and
 - (4) Methods for preservation of vegetation for wildlife habitat and screening.

App. pp. 1-4 and 16
Attachment 10

- (L) A description of the existing and planned land uses of the named sites and surrounding areas;

- App. pp. 12-15
Attachments 10 and 11 (M) A description of the scenic, natural, historic, and recreational characteristics of the names sites and surrounding areas including officially designated nearby hiking trails and scenic roads;
- Attachment 10 (N) Sight line graphs to the named sites from visually impacted areas such as residential developments, recreational areas and historic sites;
- Attachment 9 (O) A list describing the type and height of all existing and proposed towers and facilities within a four mile radius within the site search area, or within any other area from which use of the proposed towers might be feasible from a location standpoint for purposes of the application;
- App. pp. 10-11
Attachment 9 (P) A description of efforts to share existing towers, or consolidate telecommunications antennas of public and private services onto the proposed facility including efforts to offer tower space, where feasible, at no charge for space for municipal antennas;
- App. p. 10
Attachment 1 (Q) A description of technological alternatives and a statement containing justification for the proposed facility;
- Attachment 9 (R) A description of rejected sites with a U.S.G.S. topographic quadrangle map (scale 1 inch = 2,000 feet) marked to show the location of rejected sites;
- Attachments 1 and 9 (S) A detailed description and justification for the site(s) selected, including a description of siting criteria and the narrowing process by which other possible sites were considered and eliminated including, but not limited to, environmental effects, cost differential, coverage lost or gained, potential interference with other facilities, and signal loss due to geographic features compared to the proposed site(s);
- App. p. 15 (T) A statement describing hazards to human health, if any, with such supporting data and references to regulatory standards;
- App. pp. 21-22 (U) A statement of estimated costs for site acquisition, construction, and equipment for a facility at the various proposed sites of the facility, including all candidates referred to in the application;

- App. p. 22 (V) A schedule showing the proposed program of site acquisition, construction, completion, operation and relocation or removal of existing facilities for the named sites;
- App. p. 14 (W) A statement indicating that, weather permitting, the applicant will raise a balloon with a diameter of at least three feet, at the sites of the various proposed sites of the facility, including all candidates referred to in the application, on the day of the Council's first hearing session on the application or at a time otherwise specified by the Council. For the convenience of the public, this event shall be publicly noticed at least 30 days prior to the hearing on the application as scheduled by the Council;
- App. pp. 16-21
Attachments 1 and 11
Bulk File Exhibits (X) Such information as any department or agency of the State exercising environmental controls may, by regulation, require including:
- (1) A listing of any federal, state, regional, district, and municipal agencies, including but not limited to the Federal Aviation Administration; Federal Communications Commission; State Historic Preservation Officer; State Department of Environmental Protection; and local conservation, inland wetland, and planning and zoning commissions with which reviews were conducted concerning the facility, including a copy of any agency position or decision with respect to the facility; and
 - (2) The most recent conservation, inland wetland, zoning, and plan of development documents of the municipality, including a description of the zoning classification of the site and surrounding areas, and a narrative summary of the consistency of the project with the Town's regulations and plans.
- Attachment 1
(Project Plans) (Y) Description of proposed site clearing for access road and compound including type of vegetation scheduled for removal and quantity of trees greater than six inches diameter at breast height and involvement with wetlands;
- N/A (Z) Such information as the applicant may consider relevant.

CERTIFICATION OF SERVICE

I hereby certify that on this 23rd day of January 2009, copies of the Application and attachments were sent by certified mail, return receipt requested, to the following:

STATE OFFICIALS:

The Honorable Richard Blumenthal
Attorney General
Office of the Attorney General
55 Elm Street
Hartford, CT 06106

Regina McCarthy, Commissioner
Connecticut Department of Environmental Protection
79 Elm Street
Hartford, CT 06106-5127

J. Robert Galvin, M.D., M.P.H., M.B.A., Commissioner
Department of Public Health
410 Capitol Avenue
P.O. Box 340308, MS 13COM
Hartford, CT 06134-0308

Karl J. Wagener, Executive Director
Council on Environmental Quality
79 Elm Street
Hartford, CT 06106

F. Philip Prelli, Commissioner
Department of Agriculture
165 Capitol Avenue
Hartford, CT 06106

Donald W. Downes, Chairman
Department of Public Utility Control
Ten Franklin Square
New Britain, CT 06051

Robert L. Genuario, Secretary
Office of Policy and Management
450 Capitol Avenue
Hartford, CT 06106-1379

Joan McDonald, Commissioner
Department of Economic and Community Development
505 Hudson Street
Hartford, CT 06106-7106

Joseph F. Marie, Commissioner
Department of Transportation
2800 Berlin Turnpike
Newington, CT 06131-7546

Karen Senich
Executive Director and State Historic Preservation Officer
Connecticut Commission on Culture and Tourism
One Constitution Plaza, 2nd Floor
Hartford, CT 06103

FARMINGTON TOWN OFFICIALS:

Kathleen A. Eagen
Town Manager
Town of Farmington
1 Monteith Drive
Farmington, CT 06032

The Honorable Jonathan A. Harris
Senator – 5th District
Legislative Office Building
Room 3000
Hartford, CT 06106-1591

The Honorable Donald J. DeFronzo
Senator – 6th District
Legislative Office Building
Room 2300
Hartford, CT 06106

The Honorable Beth Bye
Representative – 19th District
99 Outlook Avenue
West Hartford, CT 06119

The Honorable Demetrios Giannaros
Representative – 21st District
56 Basswood Road
Farmington, CT 06032

Paula B. Ray
Town Clerk
Town of Farmington
1 Monteith Drive
Farmington, CT 06032

James H. Pogson, Chairman
Town Plan, Zoning and Inland Wetlands Commission
Town of Farmington
1 Monteith Drive
Farmington, CT 06032

Edward Giannaros, Chairman
Zoning Board of Appeals
Town of Farmington
1 Monteith Drive
Farmington, CT 06032

Jeffrey Ollendorf
Town Planner/Zoning Enforcement Officer
Town of Farmington
1 Monteith Drive
Farmington, CT 06032

Robert J. Hannon, Chairman
Conservation Commission
Town of Farmington
1 Monteith Drive
Farmington, CT 06032

AVON TOWN OFFICIALS:

Philip K. Schenck, Jr.
Town Manager
Town of Avon
60 West Main Street
Avon, CT 06001

The Honorable Kevin Witkos
Senator
Legislative Office Building
Room 3400
Hartford, CT 06106

The Honorable Beth Bye
Representative – 19th District
99 Outlook Avenue
West Hartford, CT 06119

The Honorable Tim LeGeyt
Representative – 17th District
Legislative Office Building
Room 4200
Hartford, CT 06106

Ann L. Dearstynne
Town Clerk
Town of Avon
60 West Main Street
Avon, CT 06001

Duane E. Starr, Chairman
Town Planning and Zoning Commission
Town of Avon
60 West Main Street
Avon, CT 06001

John E. Drew, Chairman
Zoning Board of Appeals
Town of Avon
60 West Main Street
Avon, CT 06001

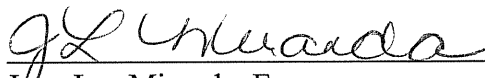
Steven M. Kushner
Director of Planning and Community Development/Zoning Enforcement Officer
Town of Avon
60 West Main Street
Avon, CT 06001

Cliff S. Thier, Chairperson
Inland Wetlands Commission
Town of Avon
60 West Main Street
Avon, CT 06001

Marianne Landers Clark, Chairman
Natural Resources Commission
Town of Avon
60 West Main Street
Avon, CT 06001

Capitol Region Council of Governments
241 Main Street, 4th Floor
Hartford, CT 06106-5310

Federal Communications Commission
445 12th Street SW
Washington, DC 20554



Joey Lee Miranda, Esq.

Robinson & Cole LLP

280 Trumbull Street

Hartford, CT 06103

Telephone: (860) 275-8200

Attorneys for Cellco Partnership d/b/a Verizon Wireless

LEGAL NOTICE

Notice is hereby given, pursuant to Section 16-50(b) of the Connecticut General Statutes and Regulations pertaining thereto, of an Application to be submitted to the Connecticut Siting Council ("Council") on or about January 23, 2009, by Cellco Partnership d/b/a Verizon Wireless ("Cellco" or the "Applicant"). The Application proposes the installation of a wireless telecommunications facility in the Town of Farmington, Connecticut. The installation would consist of a 100' x 100' leased area within a 9.9-acre parcel at 199 Town Farm Road. At this site, Cellco proposes to construct a 117-foot monopine tower. Access to the site will extend from Town Farm Road, a distance of approximately 580 feet, to the cell site. Cellco will also install a new 12' x 30' shelter located near the base of the tower to house its radio equipment and an emergency back-up generator. A 1000 gallon propane tank will also be installed within the fenced compound. The location and other features of the proposed facility are subject to change under provisions of Connecticut General Statutes § 16-50g et. seq.

On the day selected for the Siting Council public hearing on this proposal, Cellco will fly a balloon at the height of the proposed tower described above, between the hours of 8:00 a.m. and 5:00 p.m. Interested parties and residents of the Town of Farmington are invited to review the Application during normal business hours at any of the following offices:

Connecticut Siting Council
10 Franklin Square
New Britain, CT 06051

Cellco Partnership d/b/a Verizon Wireless
99 East River Drive
East Hartford, CT 06108

Town Clerk
Town of Farmington
Town Hall
1 Monteith Drive
Farmington, CT 06032

Town Clerk
Town of Avon
Town Hall
60 West Main
Avon, CT 06001

or the offices of the undersigned. All inquiries should be addressed to the Connecticut Siting Council or to the undersigned.

CELLCO PARTNERSHIP d/b/a VERIZON
WIRELESS

Joey Lee Miranda, Esq.
Robinson & Cole LLP
280 Trumbull Street
Hartford, CT 06103-3597
(860) 275-8200
Its Attorneys

JOEY LEE MIRANDA

280 Trumbull Street
Hartford, CT 06103-3597
Main (860) 275-8200
Fax (860) 275-8299
jmiranda@rc.com
Direct (860) 275-8227

Also admitted in District of
Columbia and Massachusetts

January 20, 2009

Via Certified Mail Return Receipt Requested

«Name_and_Address»

**Re: Cellco Partnership d/b/a Verizon Wireless
Proposed Telecommunications Facility
Farmington, Connecticut**

Dear «Salutation»:

Cellco Partnership d/b/a Verizon Wireless ("Cellco") will be submitting an application to the Connecticut Siting Council ("Council") on or about January 23, 2009, for approval of the construction of a telecommunications facility in the Town of Farmington, Connecticut.

The facility would consist of a new 117-foot self-supporting monopole tower, disguised as a pine tree, and a 12' x 30' equipment shelter located on a 9.9 acre parcel at 199 Town Farm Road. The parcel is owned by the Town of Farmington. An on-site backup generator would also be installed inside Cellco's shelter. A 1000 gallon propane tank will be installed within the fenced compound. The tower would be designed to accommodate multiple carriers. Access to this site will extend from Town Farm Road.

The location and other features of the proposed facility are subject to change under the provisions of Connecticut General Statutes § 16-50g et seq.

State law provides that owners of record of property that abuts a parcel on which the proposed facility may be located must receive notice of the submission of this application. This notice is directed to you either because you may be an abutting land owner or as a courtesy notice.

January 20, 2009

Page 2

If you have any questions concerning the application, please direct them to either the Connecticut Siting Council or me. My address and telephone number are listed above. The Siting Council may be reached at its New Britain, Connecticut office at (860) 827-2935.

Very truly yours,

Joey Lee Miranda

ADJACENT PROPERTY OWNERS

SITE NAME: FARMINGTON NORTH 2

OWNER NAME: TOWN OF FARMINGTON

OWNER ADDRESS: 1 MONTEITH DRIVE, FARMINGTON, CONNECTICUT 06032

ASSESSOR'S REFERENCE: MAP: 17 LOT: 27

THE FOLLOWING INFORMATION WAS COLLECTED FROM THE TAX ASSESSOR'S RECORDS AND LAND RECORDS OF FARMINGTON TOWN HALL, FARMINGTON, CONNECTICUT AND AVON TOWN HALL, AVON, CONNECTICUT. THE INFORMATION IS CURRENT AS OF JANUARY 6, 2009.

THE PARCEL IS ZONED R-40 – RESIDENTIAL.

FARMINGTON

	<u>Map/Lot</u>	<u>Property Address</u>	<u>Property Owner</u>
1.	17/11	184 Town Farm Road	Town of Farmington c/o FHA Nancy Parent 1 Monteith Drive Farmington, CT 06032
2.	28/11A	162-164 Town Farm Road	Farmington Club LLC P.O. Box 23 Plantsville, CT 06479
3.	17/27B	Town Farm Road	Town of Farmington 1 Monteith Drive Farmington, CT 06032
4.	28/11A1	158 Town Farm Road	Carol A. Whelan 158 Town Farm Road Farmington, CT 06032
5.	28/2	157 Town Farm Road	Wendy M. Chase 157 Town Farm Road Farmington, CT 06032
6.	28/10	152 Town Farm Road	Claude M. Brouillard 184 Kenyon Street Hartford, CT 06105

7.	28/1	155 Town Farm Road	Susan R. Creamer 155 Town Farm Road Farmington, CT 06032
8.	28/185	7 Ashford Court	Merwood M. and Bonita R. Jones 7 Ashford Court Farmington, CT 06032
9.	28/186	3 Ashford Court	Mary and Anthony Luciano 539 Wheeler Point Winsted, CT 06098
10.	28/189	4 Norfolk Gardens	David W. and Vicky R. Harris 4 Norfolk Gardens Farmington, CT 06032
11.	28/190	6 Norfolk Gardens	James D. and Dorothy L. Gavalis 6 Norfolk Gardens Farmington, CT 06032
12.	28/233	6 Exeter Park	Peter J. and Leandra L. Bakaj 6 Exeter Park Farmington, CT 06032
13.	28/234	8 Exeter Park	Dale Barnhart 8 Exeter Park Farmington, CT 06032
14.	17/235	7 Exeter Park	Gregory A. and Heather L. Taylor 7 Exeter Park Farmington, CT 06032
15.	17/236	5 Exeter Park	Katrine Doane Goldfarb 5 Exeter Park Farmington, CT 06032
16.	17/255	10 Belgravia Terrace	Peter L. and Lisa S. Fishman 10 Belgravia Terrace Farmington, CT 06032

17.	17/256	11 Belgravia Terrace	<p>Susan R. Edelson 11 Belgravia Terrace Farmington, CT 06032</p> <p>With a copy to:</p> <p>Richard P. Weinstein, Esq. Weinstein & Wisser, PC 29 South Main Street, Suite 207 West Hartford, CT 06107</p>
18.	17/268	3 Eton Place	<p>Patricia A. McHugh 3 Eton Place Farmington, CT 06032</p>
19.	17/269	1 Eton Place	<p>Linda Powers Tomasso 1 Eton Place Farmington, CT 06032</p>
20.	17/270	10 Chatsworth Place	<p>Richard F. and Julia D. Webb 10 Chatsworth Place Farmington, CT 06032</p>
21.	17/271	12 Chatsworth Place	<p>Robert and Emma Gibson 12 Chatsworth Place Farmington, CT 06032</p>
22.	17/272	14 Chatsworth Place	<p>Susan D. Renert 14 Chatsworth Place Farmington, CT 06032</p>
23.	16/274	4 Chelsea Place	<p>Brian H. and Kathleen A. Lindroth 4 Chelsea Place Farmington, CT 06032</p>

AVON

	<u>Parcel No.</u>	<u>Property Address</u>	<u>Property Owner</u>
1.	3360555	555 Old Farms Road	<p>Avon Old Farms School 500 Old Farms Road Avon, CT 06001</p>
2.	3360500	500 Old Farms Road	<p>Avon Old Farms School 500 Old Farms Road Avon, CT 06001</p>

3.	3360800	800 Old Farms Road	Town of Avon 60 West Main Street Avon, CT 06001
4.	4500709	709 Waterville Road	Julia K. McIlroy 709 Waterville Road Avon, CT 06001
5.	4500691	691 Waterville Road	Judith E. and Bryan Lackey 691 Waterville Road Avon, CT 06001
6.	4500665	665 Waterville Road	Joseph M. and Patricia M. Brown 665 Waterville Road Avon, CT 06001
7.	4500657	657 Waterville Road	Richard M. Bump and Kiren Cooley 657 Waterville Road Avon, CT 06001
8.	4500651	651 Waterville Road	Ronald Paul and Rita B. Distin 651 Waterville Road Avon, CT 06001
9.	4500645	645 Waterville Road	Marek and Stanislaw Kolodziej 645 Waterville Road Avon, CT 06001
10.	4500635	635 Waterville Road	Avon Land Trust P.O. Box 267 Avon, CT 06001
11.	4500625	625 Waterville Road	William Tucker Griffith 625 Waterville Road Avon, CT 06001
12.	4500615	615 Waterville Road	Marsha and Steven P. Markie, Sr. 615 Waterville Road Avon, CT 06001
13.	4500605	605 Waterville Road	Ardell O. and Weslie O. Wilson 605 Waterville Road Avon, CT 06001
14.	4500595	595 Waterville Road	Emer E. Coyne 575 Waterville Road Avon, CT 06001

15.	4500575	575 Waterville Road	Emer E. Coyne 575 Waterville Road Avon, CT 06001
16.	4500549	549 Waterville Road	Avon Land Trust P.O. Box 267 Avon, CT 06001
17.	4500525	525 Waterville Road	Debbie J. Marks, Trustee Debbie J. Marks Living Trust 4045 Happy Valley Road Lafayette, CA 94549
18.	4500505	505 Waterville Road	State of Connecticut 2800 Berlin Turnpike Newington, CT 06111

CERTIFICATION OF SERVICE

I hereby certify that a copy of the foregoing letter was sent by certified mail, return receipt requested, to each of the parties on the attached list of abutting landowners.

1/20/09
Date

Joey Lee Miranda
Joey Lee Miranda, Esq.
Robinson & Cole LLP
280 Trumbull Street
Hartford, CT 06103

Attorneys for CELLCO PARTNERSHIP d/b/a
VERIZON WIRELESS

ULS License

Cellular License - KNKA404 - Cellco Partnership

Call Sign	KNKA404	Radio Service	CL - Cellular
Status	Active	Auth Type	Regular

Market

Market	CMA032 - Hartford-New Britain-Bristol, CT	Channel Block	A
Submarket	0	Phase	2

Dates

Grant	02/05/2008	Expiration	01/22/2018
Effective	02/08/2008	Cancellation	

Five Year Buildout Date

10/16/1992

Control Points

1 500 W. Dove Rd., TARRANT, Southlake, TX
P: (800)264-6620

Licensee

FRN	0003290673	Type	General Partnership
-----	------------	------	---------------------

Licensee

Cellco Partnership 1120 Sanctuary Pkwy, #150 GASA5REG Alpharetta, GA 30004 ATTN Regulatory	P:(770)797-1070 F:(770)797-1036 E:Network.Regulatory@VerizonWireless.com
---	--

Contact

Verizon Wireless Sonya R Dutton 1120 Sanctuary Pkwy #150 GASA5REG Alpharetta, GA 30004 ATTN Network Regulatory	P:(770)797-1070 F:(770)797-1036 E:Network.Regulatory@VerizonWireless.com
--	--

Ownership and Qualifications

Radio Service Type	Mobile		
Regulatory Status	Common Carrier	Interconnected	Yes

Alien Ownership

Is the applicant a foreign government or the representative of any foreign government?	No
Is the applicant an alien or the representative of an alien?	No
Is the applicant a corporation organized under the laws of any foreign government?	No
Is the applicant a corporation of which more than one-fifth of the capital stock is owned of record or voted by aliens or their representatives or by a foreign government or representative thereof or by any corporation organized under the laws of a foreign country?	No
Is the applicant directly or indirectly controlled by any other corporation of which more than one-fourth of the capital stock is owned of record or voted by aliens, their representatives, or by a foreign government or	Yes

representative thereof, or by any corporation organized under the laws of a foreign country?

If the answer to the above question is 'Yes', has the applicant received a **Yes** ruling(s) under Section 310(b)(4) of the Communications Act with respect to the same radio service involved in this application?

Basic Qualifications

The Applicant answered "No" to each of the Basic Qualification questions.

Demographics

Race

Ethnicity

Gender

ULS License

Cellular License - KNKA404 - Cellco Partnership - Frequencies

Call Sign KNKA404 Radio Service CL - Cellular

▶ [Return to Main](#)

A Block

824.04 - 834.99 paired with 869.04 - 879.99

845.01 - 846.48 paired with 890.01 - 891.48

ULS License

PCS Broadband License - KNLH251 - Cellco Partnership

Call Sign	KNLH251	Radio Service	CW - PCS Broadband
Status	Active	Auth Type	Regular

Market

Market	BTA184 - Hartford, CT	Channel Block	F
Submarket	0	Associated Frequencies (MHz)	001890.00000000-001895.00000000-001970.00000000-001975.00000000

Dates

Grant	07/23/2007	Expiration	06/27/2017
Effective	07/23/2007	Cancellation	

Buildout Deadlines

1st	06/27/2002	2nd	
-----	------------	-----	--

Notification Dates

1st	05/17/2002	2nd	
-----	------------	-----	--

Licensee

FRN	0003290673	Type	Joint Venture
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Licensee

Cellco Partnership 1120 Sanctuary Pkwy, #150 GASA5REG Alpharetta, GA 30004 ATTN Regulatory	P:(770)797-1070 F:(770)797-1036 E:Network.Regulatory@VerizonWireless.com
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Contact

Verizon Wireless Sonya R Dutton 1120 Sanctuary Pkwy, #150 GASA5REG Alpharetta, GA 30004 ATTN Regulatory	P:(770)797-1070 F:(770)797-1036 E:Network.Regulatory@VerizonWireless.com
---	--

Ownership and Qualifications

Radio Service Type Mobile

Regulatory Status	Common Carrier	Interconnected	Yes
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Alien Ownership

Is the applicant a foreign government or the representative of any foreign government?	No
Is the applicant an alien or the representative of an alien?	No
Is the applicant a corporation organized under the laws of any foreign government?	No
Is the applicant a corporation of which more than one-fifth of	No

the capital stock is owned of record or voted by aliens or their representatives or by a foreign government or representative thereof or by any corporation organized under the laws of a foreign country?

Is the applicant directly or indirectly controlled by any other corporation of which more than one-fourth of the capital stock is owned of record or voted by aliens, their representatives, or by a foreign government or representative thereof, or by any corporation organized under the laws of a foreign country? **Yes**

If the answer to the above question is 'Yes', has the applicant received a ruling(s) under Section 310(b)(4) of the Communications Act with respect to the same radio service involved in this application?

Basic Qualifications

The Applicant answered "No" to each of the Basic Qualification questions.

Tribal Land Bidding Credits

This license did not have tribal land bidding credits.

Demographics

Race

Ethnicity

Gender

REFERENCE COPY

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Federal Communications Commission
Wireless Telecommunications Bureau

RADIO STATION AUTHORIZATION

LICENSEE: CELLCO PARTNERSHIP

ATTN: REGULATORY
CELLCO PARTNERSHIP
1120 SANCTUARY PKWY #150 - GASA5REG
ALPHARETTA, GA 30004

Call Sign WQJQ689	File Number 0003382444
Radio Service WU - 700 MHz Upper Band (Block C)	

FCC Registration Number (FRN): 0003290673

Grant Date 11-26-2008	Effective Date 11-26-2008	Expiration Date 02-17-2019	Print Date 12-03-2008
Market Number REA001	Channel Block C	Sub-Market Designator 0	
Market Name Northeast			
1st Build-out Date 02-17-2013	2nd Build-out Date 02-17-2019	3rd Build-out Date	4th Build-out Date

Waivers/Conditions:

If the facilities authorized herein are used to provide broadcast operations, whether exclusively or in combination with other services, the licensee must seek renewal of the license either within eight years from the commencement of the broadcast service or within the term of the license had the broadcast service not been provided, whichever period is shorter in length. See 47 CFR §27.13(b).

This authorization is conditioned upon compliance with section 27.16 of the Commission's rules

Conditions:

Pursuant to §309(h) of the Communications Act of 1934, as amended, 47 U.S.C. §309(h), this license is subject to the following conditions: This license shall not vest in the licensee any right to operate the station nor any right in the use of the frequencies designated in the license beyond the term thereof nor in any other manner than authorized herein. Neither the license nor the right granted thereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934, as amended. See 47 U.S.C. § 310(d). This license is subject in terms to the right of use or control conferred by §706 of the Communications Act of 1934, as amended. See 47 U.S.C. §606.

To view the geographic areas associated with the license, go to the Universal Licensing System (ULS) homepage at <http://wireless.fcc.gov/uls> and select "License Search". Follow the instructions on how to search for license information.

REFERENCE COPY

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Federal Communications Commission
Wireless Telecommunications Bureau

RADIO STATION AUTHORIZATION

LICENSEE: CELLCO PARTNERSHIP

ATTN: REGULATORY
CELLCO PARTNERSHIP
1120 SANCTUARY PKWY #150 - GASA5REG
ALPHARETTA, GA 30004

Call Sign WQJQ696	File Number 0003382435
Radio Service WY - 700 MHz Lower Band (Blocks A, B, E)	

FCC Registration Number (FRN): 0003290673

Grant Date 11-26-2008	Effective Date 11-26-2008	Expiration Date 02-17-2019	Print Date 12-03-2008
Market Number BEA010	Channel Block A	Sub-Market Designator 0	
Market Name New York-No. New Jer.-Long Isl			
1st Build-out Date 02-17-2013	2nd Build-out Date 02-17-2019	3rd Build-out Date	4th Build-out Date

Waivers/Conditions:

If the facilities authorized herein are used to provide broadcast operations, whether exclusively or in combination with other services, the licensee must seek renewal of the license either within eight years from the commencement of the broadcast service or within the term of the license had the broadcast service not been provided, whichever period is shorter in length. See 47 CFR §27.13(b).

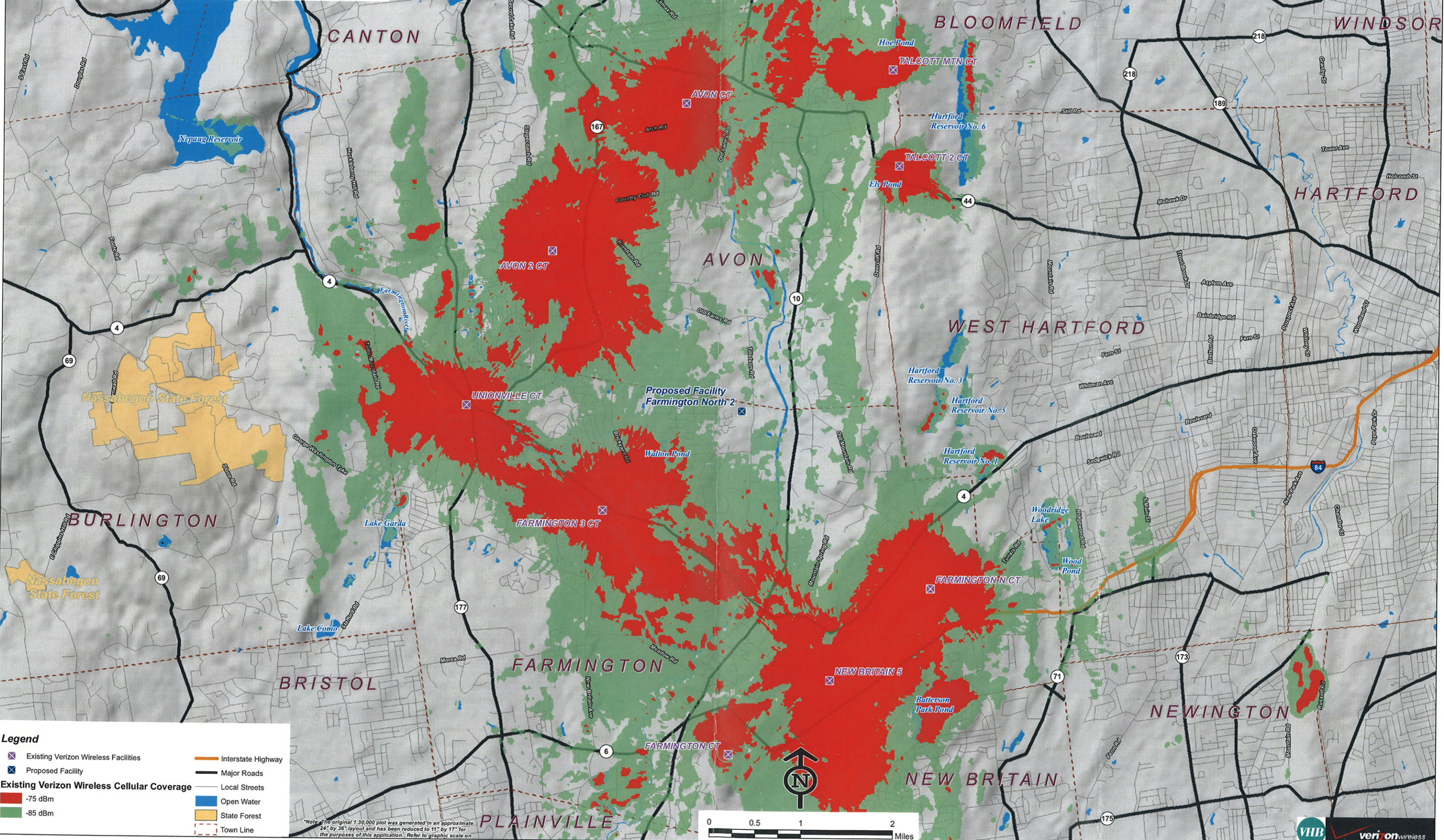
Conditions:

Pursuant to §309(h) of the Communications Act of 1934, as amended, 47 U.S.C. §309(h), this license is subject to the following conditions: This license shall not vest in the licensee any right to operate the station nor any right in the use of the frequencies designated in the license beyond the term thereof nor in any other manner than authorized herein. Neither the license nor the right granted thereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934, as amended. See 47 U.S.C. § 310(d). This license is subject in terms to the right of use or control conferred by §706 of the Communications Act of 1934, as amended. See 47 U.S.C. §606.

To view the geographic areas associated with the license, go to the Universal Licensing System (ULS) homepage at <http://wireless.fcc.gov/uls> and select "License Search". Follow the instructions on how to search for license information.

**Existing Verizon Wireless Cellular Coverage
Farmington, CT and Surrounding Area
(*Map Scale is 1:30,000)**

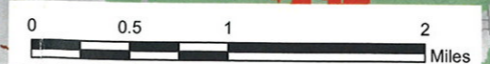
Coverage Plot Assumes 55% Site Loading on Celco System



Legend

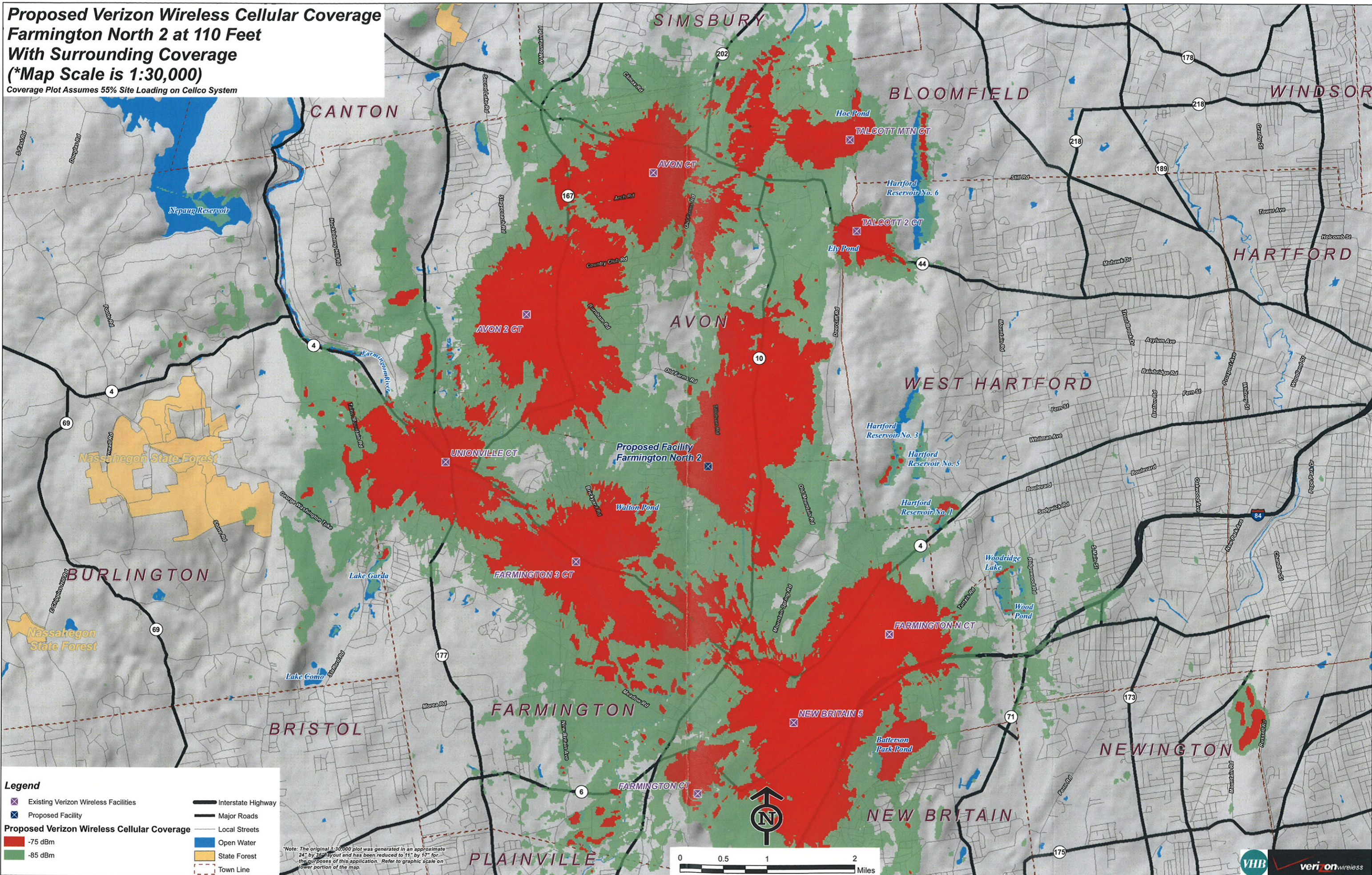
- ✕ Existing Verizon Wireless Facilities
- ✕ Proposed Facility
- Existing Verizon Wireless Cellular Coverage
 - Red -75 dBm
 - Green -85 dBm
- Orange Interstate Highway
- Black Major Roads
- Grey Local Streets
- Blue Open Water
- Yellow State Forest
- Dashed Red Town Line

*Note: The original 1:30,000 plot was generated in an approximate 24" by 36" layout and has been reduced to 11" by 17" for the purposes of this application. Refer to graphic scale on map.



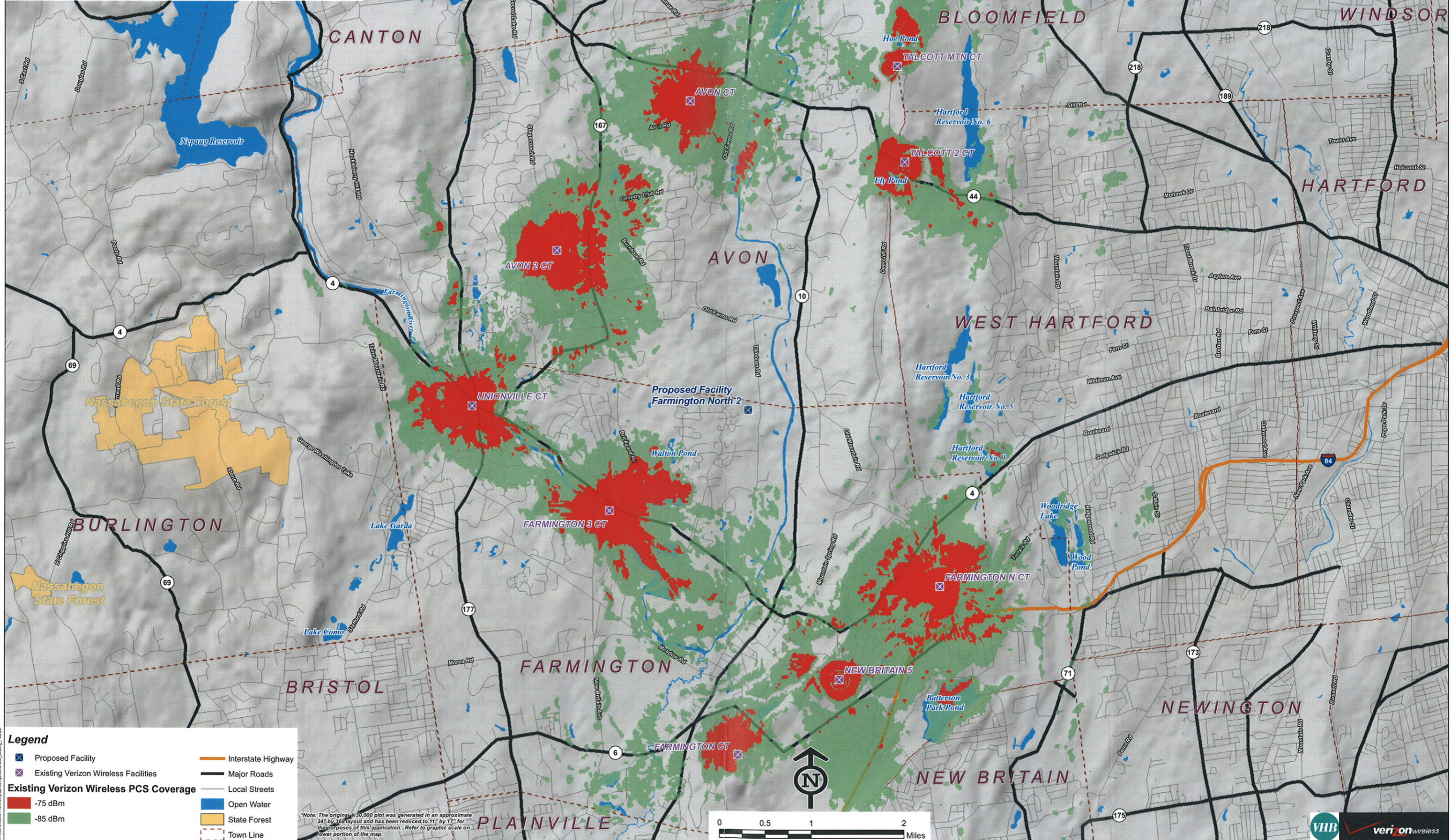
**Proposed Verizon Wireless Cellular Coverage
Farmington North 2 at 110 Feet
With Surrounding Coverage
(*Map Scale is 1:30,000)**

Coverage Plot Assumes 55% Site Loading on Celco System



**Existing Verizon Wireless PCS Coverage
Farmington, CT and Surrounding Area
(*Map Scale is 1:30,000)**

Coverage Plot Assumes 55% Site Loading on Cellco System



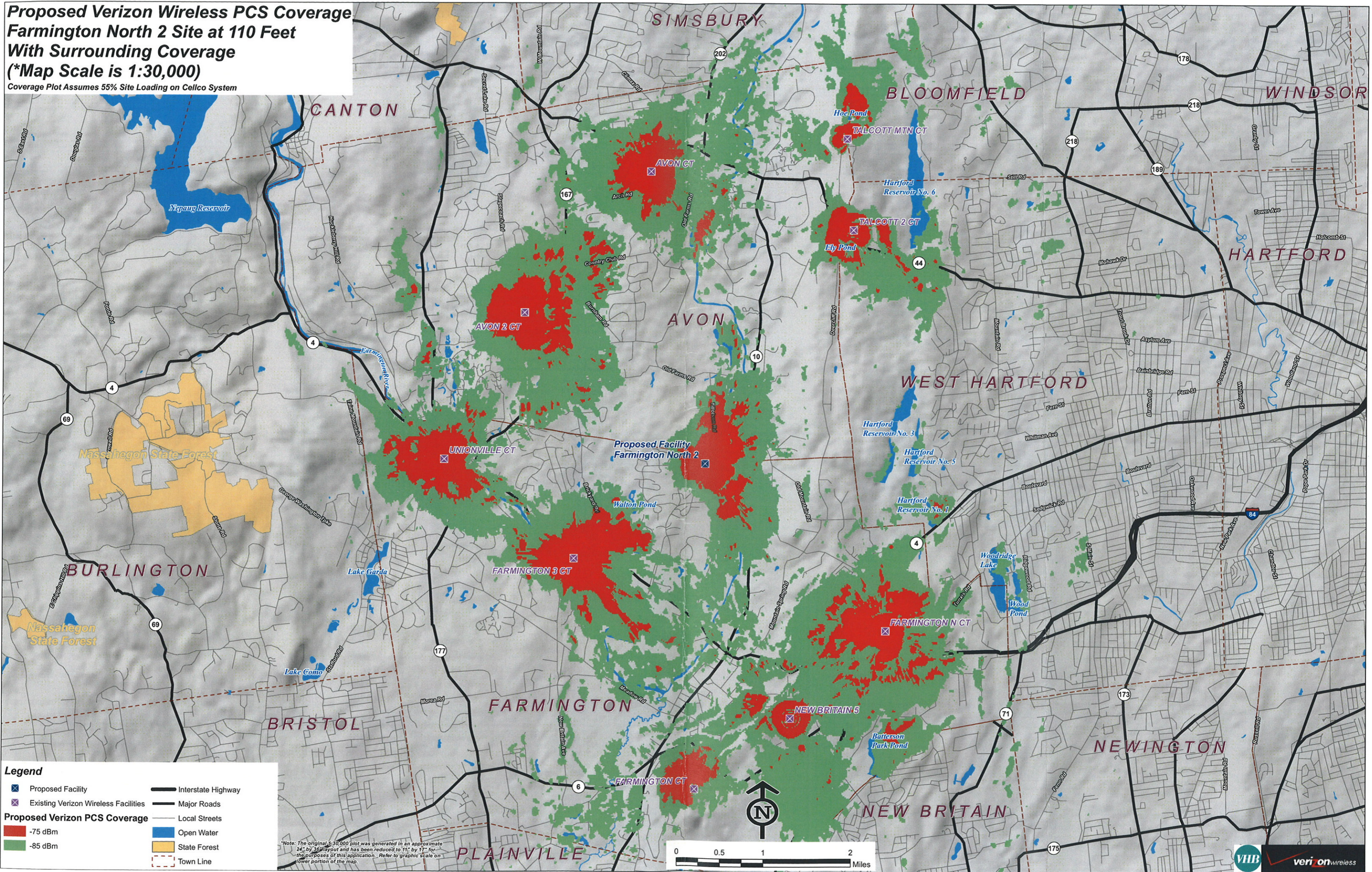
Legend

- Proposed Facility
- Existing Verizon Wireless Facilities
- Existing Verizon Wireless PCS Coverage -75 dBm
- Existing Verizon Wireless PCS Coverage -85 dBm
- Interstate Highway
- Major Roads
- Local Streets
- Open Water
- State Forest
- Town Line

*Note: The original 1:30,000 plot was generated in an approximate 24" by 36" layout and has been reduced to 11" by 17" for the purposes of this application. Refer to graphic scale on lower portion of the map.

**Proposed Verizon Wireless PCS Coverage
Farmington North 2 Site at 110 Feet
With Surrounding Coverage
(*Map Scale is 1:30,000)**

Coverage Plot Assumes 55% Site Loading on Cellco System



Legend

- X Proposed Facility
- X Existing Verizon Wireless Facilities
- Proposed Verizon PCS Coverage -75 dBm
- Proposed Verizon PCS Coverage -85 dBm
- Interstate Highway
- Major Roads
- Local Streets
- Open Water
- State Forest
- Town Line

*Note: The original 1:30,000 plot was generated in an approximate 24" by 36" layout and has been reduced to 11" by 17" for the purposes of this application. Refer to graphic scale on lower portion of the map.



LPA-80063/4CF

When ordering replace "___" with connector type.

Mechanical specifications

Length	1205 mm	47.4 in
Width	386 mm	15.2 in
Depth	335 mm	13.2 in
Depth with z-bracket	375 mm	14.8 in
4) Weight	9.1 kg	20.0 lbs
Wind Area		
Fore/Aft	0.47 m ²	5.0 ft ²
Side	0.40 m ²	4.4 ft ²
Rated Wind Velocity (Safety factor 2.0)	>265 km/hr	>165 mph
Wind Load @ 100 mph (161 km/hr)		
Fore/Aft	665 N	149.5 lbs
Side	577 N	129.6 lbs

Antenna consisting of aluminum alloy with brass feedlines covered by a UV safe fiberglass radome.

Mounting and Downtilting

Mounting brackets attach to a pipe diameter of Ø50-102 mm (2.0-4.0 in). If the lock-down brace is used, the maximum diameter is Ø88.9 mm (3.5 in)

Mounting Bracket and Downtilt Bracket Kit #21699999

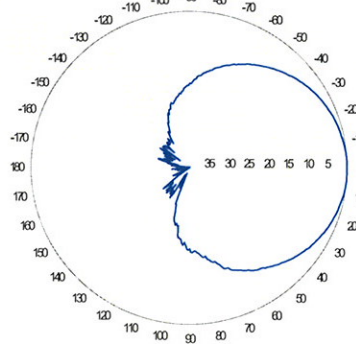
Electrical specifications

Frequency Range	806-960 MHz
Impedance	50Ω
3) Connector(s)	NE or E-DIN 1 port / center
1) VSWR	≤ 1.4:1
Polarization	Vertical
1) Gain	13 dBd
2) Power Rating	500 W
1) Half Power Angle	
H-Plane	63°
E-Plane	15°
1) Electrical Downtilt	0°
1) Null Fill	10%
Lightning Protection	Direct Ground

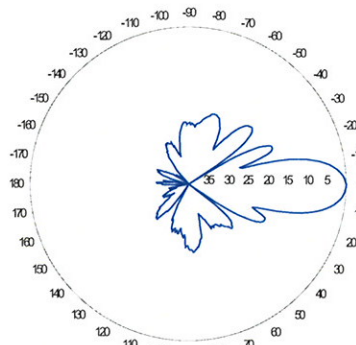
- 1) Typical values.
- 2) Power rating limited by connector only.
- 3) NE indicates an elongated N connector. E-DIN indicates an elongated DIN connector.
- 4) The antenna weight listed above does not include the bracket weight.

Improvements to mechanical and/or electrical performance of the antenna may be made without notice.

Radiation pattern¹⁾



Horizontal

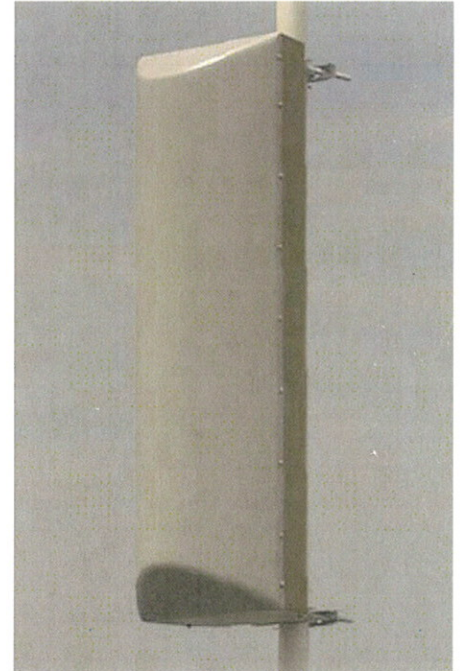


Vertical

Featuring upper side lobe suppression.

Radiation patterns for all antennas are measured with the antenna mounted on a fiberglass pole.

Mounting on a metal pole will typically improve the Front-to-Back ratio.



Amphenol Antel's Exclusive 3T (True Transmission Line Technology) Antenna Design:

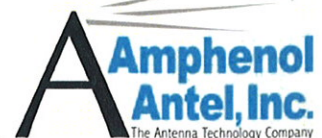
- True log-periodic design allows for superior front-to-side characteristics to minimize sector overlap.
- Unique feedline design eliminates the need for conventional solder joints in the signal path.
- A non-collinear system with access to every radiating element for broad bandwidth and superior performance.
- Air as insulation for virtually no internal signal loss.

This Amphenol Antel antenna is under a five-year limited warranty for repair or replacement.

Antenna available with center-fed connector only.

CF Denotes a Center-Fed Connector.

806-960 MHz



Revision Date: 6/17/08

LPA-185063/8CF __ 2°

When ordering replace " __ " with connector type.

Mechanical specifications

Length	1200 mm	47.2 in
Width	167 mm	6.6 in
Depth	148 mm	5.8 in
Depth with t-bracket	176 mm	6.9 in
4) Weight	4.1 kg	9.0 lbs
Wind Area		
Fore/Aft	0.20 m ²	2.2 ft ²
Side	0.18 m ²	1.9 ft ²
Rated Wind Velocity (Safety factor 2.0)		
	>548 km/hr	>341 mph
Wind Load @ 100 mph (161 km/hr)		
Fore/Aft	299 N	67.2 lbs
Side	267 N	60.0 lbs

Antenna consisting of aluminum alloy with brass feedlines covered by a UV safe fiberglass radome.

Mounting and Downtilting

Mounting brackets attach to a pipe diameter of Ø50-102 mm (2.0-4.0 in).

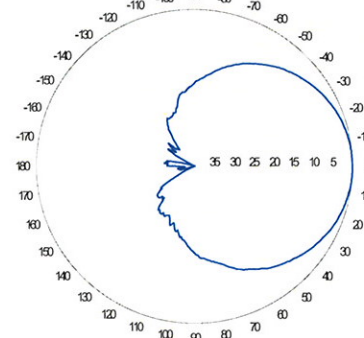
Mounting bracket kit #26799997
Downtilt bracket kit #26799999

The downtilt bracket kit includes the mounting bracket kit.

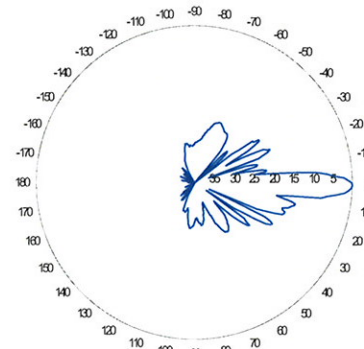
Electrical specifications

Frequency Range	1850-1990 MHz
Impedance	50Ω
3) Connector(s)	NE or E-DIN 1 port / center
1) VSWR	≤ 1.4:1
Polarization	Vertical
1) Gain	18 dBi
2) Power Rating	250 W
1) Half Power Angle	
H-Plane	63°
E-Plane	8°
1) Electrical Downtilt	2°
1) Null Fill	10-20%
Lightning Protection	Direct Ground

Radiation pattern¹⁾



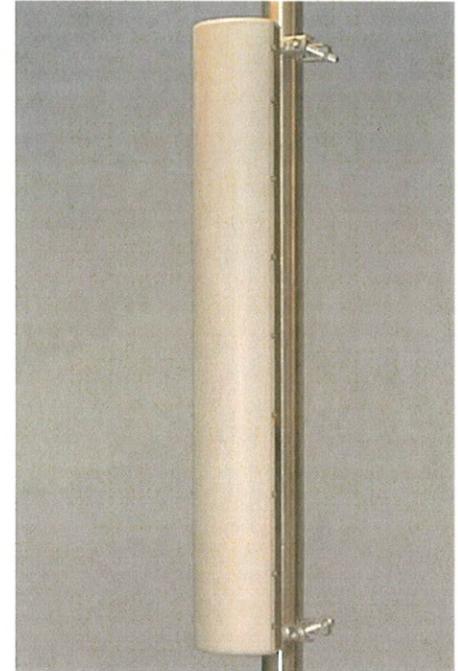
Horizontal



Vertical

Radiation patterns for all antennas are measured with the antenna mounted on a fiberglass pole.

Mounting on a metal pole will typically improve the Front-to-Back ratio.



Amphenol Antel's Exclusive 3T (True Transmission Line Technology) Antenna Design:

- True log-periodic design allows for superior front-to-side characteristics to minimize sector overlap.
- Unique feedline design eliminates the need for conventional solder joints in the signal path.
- A non-collinear system with access to every radiating element for broad bandwidth and superior performance.
- Air as insulation for virtually no internal signal loss.

This Amphenol Antel antenna is under a five-year limited warranty for repair or replacement.

Antenna available with center-fed connector only.

CF Denotes a Center-Fed Connector.

1850-1990 MHz

1) Typical values.
2) Power rating limited by connector only.
3) NE indicates an elongated N connector. E-DIN indicates an elongated DIN connector.
4) The antenna weight listed above does not include the bracket weight.

Improvements to mechanical and/or electrical performance of the antenna may be made without notice.

Slant $\pm 45^\circ$ Dual Polarized FET Panel $63^\circ / 13$ dBd 696-900 MHz

Mechanical specifications

Length	1205 mm	47.4 in
Width	285 mm	11.2 in
Depth	126 mm	5.0 in
Depth with z-bracket	166 mm	6.5 in
Weight ⁴⁾	4.5 kg	9.9 lbs
Wind Area Fore/Aft	0.36 m ²	3.9 ft ²
Wind Area Side	0.15 m ²	1.7 ft ²
Max Wind Survivability	>201 km/hr	>125 mph
Wind Load @ 100 mph (161 km/hr)		
Fore/Aft	522 N	117 lbf
Side	244 N	55 lbf

Antenna consisting of aluminum alloy with brass feedlines covered by a UV safe fiberglass radome. RoHS compliant.

Mounting & Downtilting

Mounting hardware attaches to pipe diameter $\varnothing 50$ -160 mm; $\varnothing 2.0$ -6.3 in.

Mounting Bracket Kit	36210002
Downtilt Bracket Kit	36114003

Electrical specifications

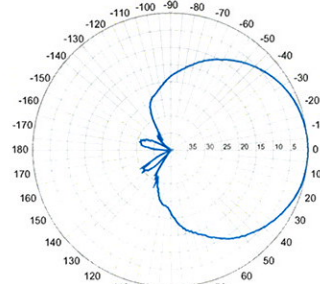
Frequency Range	696-900 MHz
Impedance	50 Ω
Connector ³⁾	NE or E-DIN Female 2 ports / Center
VSWR ¹⁾	$\leq 1.4:1$
Polarization	Slant $\pm 45^\circ$
Isolation Between Ports ¹⁾	< -30 dB
Gain ¹⁾	13.0 dBd 15.0 dBi
Power Rating ²⁾	500 W
Half Power Angle ¹⁾	
Horizontal Beamwidth	63°
Vertical Beamwidth	15°
Electrical downtilt ⁵⁾	0°
Null fill ¹⁾	5%
Lightning protection	Direct ground

Patented Dipole Design: U.S. Patent No. 6,608,600 B2

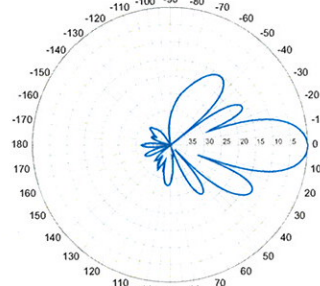
- 1) Typical values.
- 2) Power rating limited by connector only.
- 3) NE indicates an elongated N connector.
E-DIN indicates an elongated DIN connector.
- 4) Antenna weight does not include brackets.
- 5) Add'l downtilts may be available. Check website for details.

Improvements to mechanical and/or electrical performance of the antenna may be made without notice.

Radiation-pattern¹⁾
750 MHz

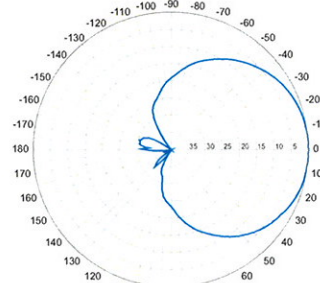


Horizontal

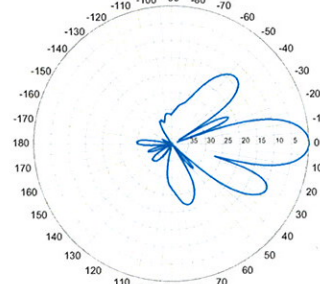


Vertical

850 MHz



Horizontal

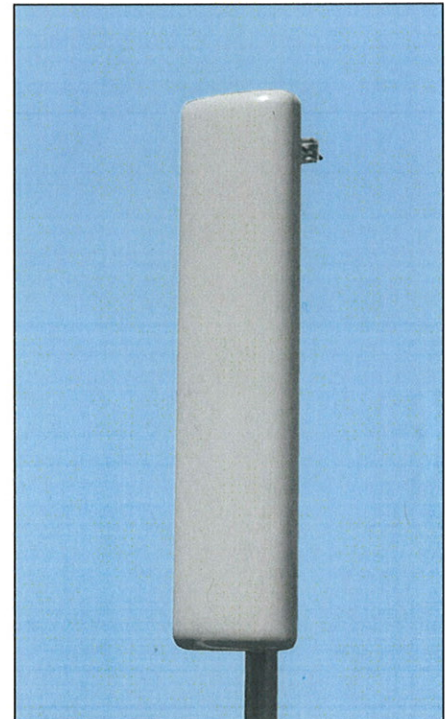


Vertical

696-900 MHz

BXA-70063/4CF ___

When ordering replace "___" with connector type.



Featuring our Exclusive
3T Technology™
Antenna Design:

- Watercut brass feedline assembly for consistent performance.
- Unique feedline design eliminates the need for conventional solder joints in the signal path.
- A non-collinear system with access to every radiating element for broad bandwidth and superior performance.
- Air as insulation for virtually no internal signal loss.

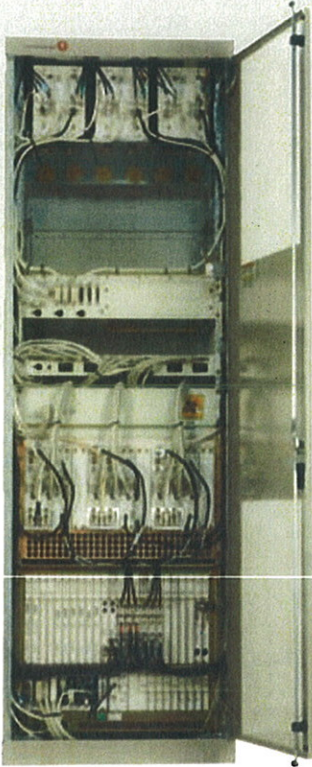
Warranty:

This antenna is under a five-year limited warranty for repair or replacement.

Revision Date: 10/27/08

Lucent CDMA Modular Cell 4.0B Indoor

For CDMA Networks



Lucent CDMA Modular Cell 4.0B is a high capacity base station equipped with the state-of-the-art technologies developed by Bell Labs. The product brings you outstanding carrier density and immediate OPEX savings. This indoor product can support up to 8 carriers/3 sectors per frame. It is twice the density of Modular Cell 4.0 (indoor). Modular Cell 4.0B offers full spectrum coverage in a single frame, dramatically simplifying growth patterns. As the leader in spread spectrum technology, Lucent Technologies continues to introduce innovations to the market: Multi-Carrier Radio (15MHz), Block Filters/Wideband Filters, and 40W Power Amplifier Modules are the latest assets integrated in the base station.

Features

The Modcell 4.0B indoor version offers a small footprint with exceptional carrier density in a standard ETSI cabinet.

- Indoor Single Frame Configuration
- 1-8 carriers per frame at 3 sectors (will support up to 11 carriers with Auxiliary Amplifier Frame)
- Dual Band: one cell to the ECP & mobile
- Close Loop Gain Control
- Timing and Controller Redundancy
- Integrated Power option
- Support CDMA2000™1X, and EV-DO Rev.0, with future support to EV-DO Rev. A
- IP Backhaul and Ethernet Backhaul capable
- 6-Sector option ready
- Intelligent Antenna option ready

Benefits

- Optimized for highest carrier density, smooth growth in one frame
- Conserves indoor footprint, reducing hardware and floor space requirements
- Minimizes configuration complexity
- Software-Only Carrier Add at certain carrier counts
- Flexible channel growth planning
- Designed to use existing power supply
- Grow CDMA carriers on only 2 antennas/sector
- Multi-Carrier Radio (15MHz), Block Filters/Wideband Filters, and 40W Power Amplifier Modules



Technical Specifications

Description	Specification
1. Configurations	
a. Sectors	3, 4 and 6
b. Carriers	1–8 per frame at 3 sectors (up to 11 with Auxiliary Amplifier Frame)
2. CDMA Channel Card Capacity	12 slots; CMU IVB capable
3. T1, E1 Facilities	Maximum of 20 per cabinet when equipped with URC-II's
4. User Alarms	7 Power Alarms, 25 User Alarms
5. GPS Antenna	Yes
6. Air Interface Standards	T1A/E1A 95-A plus TSB-74; T1A/E1A 95-B for 850 MHz; CDMA 2000
7. Frequency Bands	850MHz/1900 MHz; 300 to 2100 MHz capable
8. Vocoder	8 Kbps; 8 Kbps EVRC; 13 Kbps; SMV-ready
9. Environmental Cabinet Housing	Standard ETSI cabinet; UL50 compliant; zero rear clearance
10. Cabinet Access	Front Access
11. Operating Temperature Range	Range: -5 to +40°C (continuous)
12. Dimensions	600 mm W x 600 mm D x 1880 mm H (23.6 x 23.6 x 74) inches
13. Estimated Installed Weight	365 kg (785 lbs.) DC [8 carriers in one cabinet]
14. Power Options	Integrated Power, AC 120/240 Volt Input, -48V or +24 V DC Conversion Non-integrated Power requires either + 24 VDC Input or - 48 VDC Input
15. Power Consumption	
a. 3 Carrier/3 Sectors	2167 W
b. 6 Carrier/3 Sectors	5449 W
c. 11 Carrier/3 Sectors	10026 W
16. RF Power (at J4)	25 W per carrier (850) FCC Rated short-term average 20 W per carrier (850) FCC Rated long-term average 20 W per carrier (1900) FCC Rated short-term average 16 W per carrier (1900) FCC Rated long-term average
17. Minimal Antenna Configuration	2 antennas/sector
18. Filter	Block and Wide Band Dual Duplex
19. Growth Frame	PCS AUX Frame, Dual Band Growth Frame
20. Operational Accessories	Integrated Power
21. Channel Elements	Channel pooling across sectors or carriers

To learn more about our comprehensive portfolio, please contact your Lucent Technologies Sales Representative or visit our web site at <http://www.lucent.com>.

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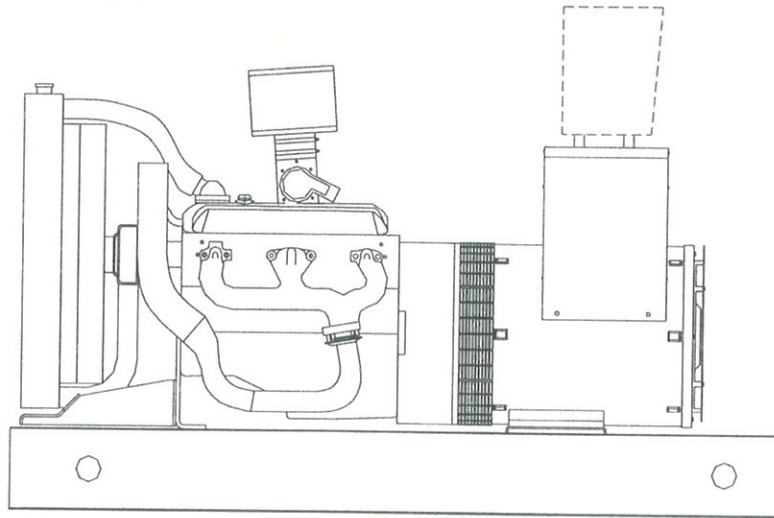
MOB-Mod4B-i 0106



60 kW @ 60 Hz.
 Stand-By Power

60F*G4

45 kW @ 60 Hz.
 Prime Power



- ▶ Katolight's commitment to quality has been an industry standard since 1952
- ▶ Katolight specializes in custom designing any application to meet the most difficult specifications
- ▶ Each and every unit is factory tested. This can eliminate costly startup and installation delays
- ▶ Katolight supplies a broad range of accessories to match any requirement worldwide
- ▶ Katolight generator sets come standard with a 2 year, 1500 hour limited warranty
- ▶ Optional warranty periods are also available, contact factory for details
- ▶ This model accepts 100% of nameplate rating, per NFPA 110

Model #	Volts	Hz	Phase	Power Factor	Natural Gas Standby Ratings		Natural Gas Prime Ratings		LP Gas Standby Ratings		LP Gas Prime Ratings		Connection
					Amps	kW/kVA	Amps	kW/kVA	Amps	kW/kVA	Amps	kW/kVA	
60FRG4	277/480	60	3	0.8	90	60/75	68	45/56.25	90	60/75	68	45/56.25	12 LEAD HI WYE
60FPG4	120/208	60	3	0.8	208	60/75	156	45/56.25	208	60/75	156	45/56.25	12 LEAD LOW WYE
60FJG4	120/240	60	3	0.8	180	60/75	135	45/56.25	180	60/75	135	45/56.25	12 LEAD HI DELTA
60FNG4	347/600	60	3	0.8	72	60/75	54	45/56.25	72	60/75	54	45/56.25	4 LEAD WYE
60FGG4	120/240	60	1	1.0	250	60/60	188	45/45	250	60/60	188	45/45	12 LEAD ZIG-ZAG
* 60FDG4	120/240	60	1	1.0	250	60/60	188	45/45	250	60/60	188	45/45	4 LEAD



60F*G4 LPG/NG Gen-Set

STANDARD EQUIPMENT

CONTROL PANEL

- Model #45 control panel
- AC voltmeter, 3 1/2", 2% accuracy
- AC ammeter, 3 1/2", 2% accuracy
- Combination VM/AM selector switch, 4 position
- Frequency meter, 3 1/2", 55-65 Hz.
- Vibration shock mounts (4)
- Engine control - KASSEC-12 VDC, with cyclic cranking timer
- 4 engine shutdowns with separate failure lights
 - * High water temperature
 - * Low oil pressure
 - * Engine overspeed
 - * Engine overcrank
- Engine gauges - 2"
 - * Battery voltmeter
 - * Water temperature
 - * Oil pressure
 - * Running time meter - 5 digits
- 3 position mode switch (auto-off-manual)

ENGINE

- Air cleaner
- Oil pump
- Full flow oil filter
- Jacket water pump
- Thermostat
- Exhaust manifold - dry
- Blower fan & fan drive
- Radiator - unit mounted
- Vibration isolators - pad type
- Electric starting motor - 12V

ENGINE (cont.)

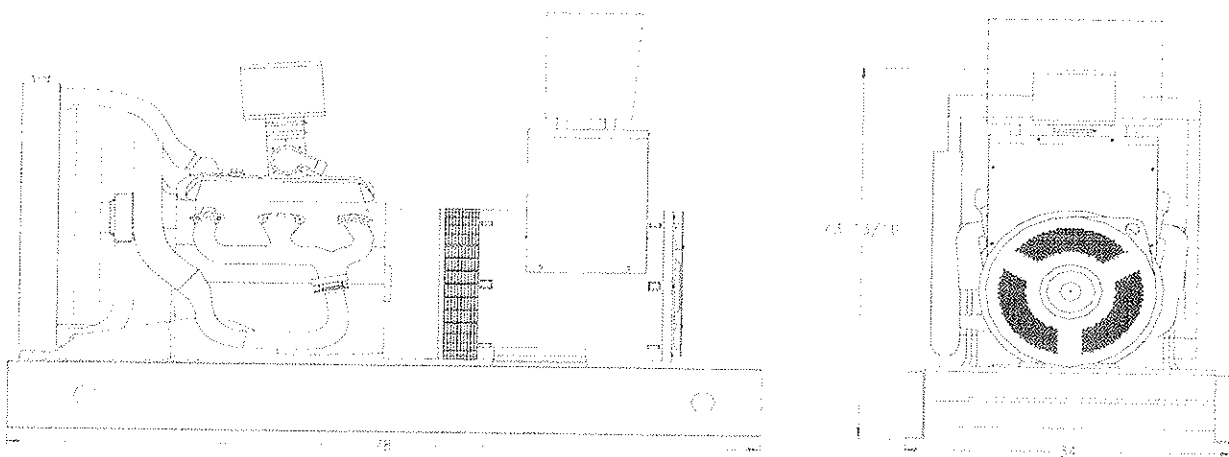
- Governor - Electric Isochronous
- Base - formed steel
- Flywheel & Enclosure
- Charging alternator - 12V
- Battery box & cables
- Flexible fuel & exhaust connectors

GENERATOR

- A.C. Generator
- Brushless design
- Single bearing
- Direct connection with flex plate
- Class H insulation
- All models manufactured to meet NEMA MG1- 22.4 and CSA standards
- Telephone influence factor is well within NEMA standards
- Wave form deviation factor is no more than 5%, well within NEMA standards
- Harmonic content is 3.0% maximum
- Permanently lubricated ball type bearings
- Generator is self-ventilated
- Drip-proof construction

VOLTAGE REGULATOR

- Voltage adjust rheostat
- EMI filter (Internal Electromagnetic Interference)
- Underspeed protection
- Overexcitation protection
- Fully encapsulated
- Regulation - 1%



Drawing above for illustration purposes only, based on standard open power 480 volt generator. Lengths may vary with other voltages.

ENGINE TECHNICAL DATA

Model:.....	5.7L	60 Hz
Type:.....	4-Cycle	
Aspiration:.....	Naturally	
Cylinder Arrangement: (Number, inline, V, etc.).....	8-V	
Displacement - Cu. In. (lit).....	350 (5.7)	
Bore - in. (cm) x stroke - in. (cm).....	4.0 (10.2) x 3.5 (8.8)	
Compression Ratio:.....	9.1:1	
Rated RPM.....	1800	
Rating.....	Standby.....	Prime
BMEP: psi (kPa).....	110 (758)	107 (737)
Maximum Power at Rated RPM - bhp (kW).....	88 (66)	85 (64)

INSTALLATION DATA *

Exhaust System

Gas Temp. (Stack): °F (°C).....	1,403 (762)	1,306 (708)
Gas Volume at Stack Temp.: CFM (m ³ /min).....	571 (16.2)	532 (15.1)
Maximum Allowable Back Pressure: in. H ₂ O (kPa).....	40.7 (10.1)	40.7 (10.1)

Cooling System

Ambient Capacity of Radiator: °F (°C).....	122 (50)	122 (50)
Maximum Allowable Static Pressure on Rad. Exhaust: in. H ₂ O (kPa).....	1.5 (0.37)	1.5 (0.37)
Water Pump Capacity: gpm (lit/min).....	31 (117)	31 (117)
Heat Rejection to Coolant: BTUM (kW).....	2,999 (52.7)	2,793 (49.1)
Heat Radiated to Ambient: BTUM (kW).....	2,429 (42.7)	2,328 (40.9)

Air Requirements

Aspirating: CFM (m ³ /min).....	180 (5.1)	172 (4.9)
Air Flow Required for Rad. Cooled Unit: CFM (m ³ /min).....	7,115 (201)	7,059 (200)
Air Flow Required for Heat Exchanger/Remote Rad. based on 20°F Rise: CFM (m ³ /min).....	6,747 (191)	6,467 (183)

Fuel Consumption: (NG-1000 BTU/ft³ / LP-2500 BTU/ft³)

	NG	LPG	NG	LPG
At 100% of Power Rating: ft ³ /hr (m ³ /hr).....	748 (21.2)	299 (8.5)	726 (20.6)	291 (8.2)
At 75% of Power Rating: ft ³ /hr (m ³ /hr).....	639 (18.1)	256 (7.2)	615 (17.4)	246 (7.0)
At 50% of Power Rating: ft ³ /hr (m ³ /hr).....	510 (14.4)	204 (5.8)	486 (13.8)	194 (5.5)

Sound Level Data ■

Sound level at:	Full Load	No Load	Full Load	No Load
23 ft (7m) opn w/ critical grade muffler (dBA).....	79	75	78	75
23 ft (7m) Sound Attenuated Enclosure (dBA).....	73	68	72	68

Dimensions & Weight

Length: in. (cm).....	78 (198)
Width: in. (cm).....	34 (86)
Height: in. (cm).....	43.8 (111)
Weight (dry): lb. (kg).....	1,366 (620)

Liquid Capacity

Total oil system: gal (lit).....	1.6 (6.1)
Engine jacket water capacity: gal (lit).....	2.0 (7.6)
System coolant capacity: gal (lit).....	5.3 (20.1)

Fuel Inlet

Fuel connection size:.....	¾" NPT
Fuel supply pressure in H ₂ O (mm H ₂ O).....	7-11 (178-279)

Electrical System

Electric volts DC.....	12
Cold cranking Amps under 0°F (-17.8°C).....	600

Remote Radiator System

Connection sizes:	
Jacket water radiator inlet in. (cm).....	2 (5.1)
Jacket water radiator outlet in. (cm).....	2 (5.1)
Static head allowable above engine ft H ₂ O (kPa).....	17 (50.8)
Total system friction pressure max. allowable psi (kPa).....	C/F

Heat Exchanger System

Connection sizes:	
Heat ex. inlet in. (cm).....	1.5 (3.8)
Heat ex. outlet in. (cm).....	1.5 (3.8)
Water consumption: @ 60°F (16°C) gpm (lit/min).....	7 (26.5)

*Installation data based on 480 volt, 60 HZ, application and open power unit.

■ For sound level readings with other enclosures, please contact factory.

Sound level data acquired per Test Method SAE J1074. Installation factors and site conditions can affect sound levels.

Deration Factor: Altitude: Derate: 3% per 1,000 ft (305 m) above 328 ft (100 m). Temperature: Derate: 1% per 10°F (5.5°C) above 77°F (25°C)

60F*G4 NG Gen-Set

Control Panel

** NOTE: #45 series control panel is standard on all units, see page 2 of spec sheet for standard features.

- o Model #45 Series Control Panel Options
 - o Emergency stop button
 - o Alarm buzzer with silencing switch
 - o Auxiliary relay for dry contacts (2 max.)
 - o A separate low water level light is optional
 - o Hooded panel lights (2) and on/off switch
 - o NEMA 12 Panel Face
 - o Additional LED lights (4 max.) One or two of the following conditions may be indicated:
 - o unit not in auto
 - o low fuel level
 - o low water level
 - o low water temp.
 - o EPS supplying load
 - o pre-alarm oil
 - o pre-alarm temp.
 - o charger malfunction
- o Model #50 Series Control Panel
STANDARD FEATURES: same as #45 series control panel except for these added features:
 - o Hooded panel lights (2) and on/off switch
 - o 4 Engine shutdowns
 - o 12 light engine control package meeting NFPA-110 requirement
 - o Repetitive alarm buzzer and silencing switch
 - o Light and alarm press to test
 #50 SERIES OPTIONS
 - o Emergency stop button
 - o Additional space for one 3 1/2" meter
 - o Auxiliary relay for dry contacts (2 max.)
 - o A separate low water level light is optional
 - o Additional LED lights (4 max.) One to four additional conditions may be indicated: customer to specify
 - o NEMA 12 Panel Face
- o Model #60 and #80 Series Custom Control Panels
It may be necessary to use a 60 or 80 series control panel on certain units where numerous options are required.
- o Microprocessor Control Panel – KDGC

GEN-SET OPTIONS

Cooling System

- o Remote Radiator
- o High Ambient Radiator
- o Heat Exchanger Cooling
- o Radiator Duct Flange

DISTRIBUTED BY:

Fuel System

- o Fuel Strainer
- o Dual Fuel
 - o Manual Change-over
 - o Auto Change-over

Exhaust System

- o Residential Grade Muffler
- o Critical Grade Muffler
- o Hospital Grade Muffler
- o Rain Cap

Engine Electrical System

- o Battery
 - o Lead-Acid
 - o NiCad
- o Battery Warmer Plate
- o Battery Rack
- o Battery Charger
 - o Automatic
 - o Trickle
 - o Mounted & Wired

Generator

- o Main Line Circuit Breaker
 - o Shunt trip
 - o Auxiliary switch
- o PMG Excitation & DVR 2000 Regulator
- o Space Heaters 120/240 volt
- o Special Testing
- o Additional Temperature Rise Generators
Available (80°C, 105°C, & 130°C)

Additional Optional Equipment

- o Spring vibration isolators
- o Oil Drain Extension
- o Enclosures
 - o Sound Attenuated
 - o Weather Proof
 - o Aluminum
 - o Interior lights AC or DC
 - o Floor Plate
- o Jacket Water Heater
- o Crankcase Oil Heater
- o Remote Annunciator
- o 12 Light Annunciator
 - o Flush Mounted
 - o Surface Mounted
 - o 4 additional lights, if needed
- o Export Boxing
- o Warranties
 - o 2 Year
 - o 5 Year
- o Operating instructions under plexi-glass
- o Service indicator light
- o Wind rated enclosure