



County of Fairfax, Virginia

MEMORANDUM

DATE: November 20, 2008

TO: David Marshall, Chief
Facilities Planning Branch, Planning Division, DPZ

FROM: Kevin Guinaw, Chief *Kevin Guinaw*
Special Projects/Applications Management Branch, Zoning Evaluation Division, DPZ

SUBJECT: Proposed Verizon Telecommunications Facility at 3663 West Ox Road;
Tax Map 46-1 ((1)) 6A; 2232 Application FS-Y08-113

This is in response to a request for a determination as to whether a telecommunications facility at 3663 West Ox Road, proposed by Verizon, would be in substantial conformance with the development conditions approved by the Board of Supervisors in conjunction with Special Exception Amendment SEA 77-C-190-2 for site modifications to the previously approved water storage facility. As described in the 2232 application dated October 21, 2008, from Frank W. Stearns, agent for the applicant, twelve (12) panel antennas are proposed to be mounted on the top center of the water storage tank. The antennas will be stealth screened to match the color of the water storage tank. The number, models and dimensions of the antennas are as follows:

- 3 SA14-78 antennas 72 inches high x 14.5 inches wide x 9 inches deep
- 3 MP16-85 antennas 47.1 inches high x 6.7 inches wide x 4.1 inches deep
- 3 SA15-60 antennas 72 inches high x 16.7 inches wide x 9 inches deep
- 3 MP17-65 antennas 47.1 inches high x 6.7 inches wide x 4.1 inches deep

In addition, one (1) equipment shelter (12 feet high x 20 feet wide x 10 feet deep) is proposed to be located near the base of the tower. A copy of the telecommunications application is attached, including illustrations depicting the proposed locations of the telecommunications equipment.

The Zoning Administration Division has determined that a telecommunications facility as described above is a permitted use pursuant to the provisions of Sect. 2-514 of the Zoning Ordinance provided that it is determined to be in substantial conformance with any applicable special exception. It is my determination that the proposed telecommunications facility described above is in substantial conformance with SEA 77-C-190-2. Please note that this proposal is subject to 2232 review requirements and Verizon's ability to proceed is dependent upon the pending 2232 application being approved by the Fairfax County Planning Commission. This determination has been made in my capacity as the duly authorized agent of the Zoning Administrator. If you have any questions regarding this memorandum, please call Carrie Lee at (703) 324-1290.

KG/CDL/O:\clee01\ActionAssignments\Antennas\3663 West Ox Rd_Verizon_water tanks.doc

Attachments: A/S

cc: Michael R. Frey, Supervisor, Sully District
John L. Litzenberger, Planning Commissioner, Sully District
Regina C. Coyle, Director, Zoning Evaluation Division, DPZ
Diane Johnson-Quinn, Deputy Zoning Administrator, Zoning Permit Review, ZED, DPZ
Ken Williams, Chief, Plan and Document Control, Land Development Services, DPWES
Frank W. Stearns, 8010 Towers Crescent Drive, Suite 300, Vienna, VA 22182
File: SEA 77-C-190-2, ANT 0810 077, Imaging, Reading File

Department of Planning and Zoning
12055 Government Center Parkway, Suite 801
Fairfax, Virginia 22035-5509
Phone 703 324-1290
FAX 703 324-3924
www.fairfaxcounty.gov/dpz/



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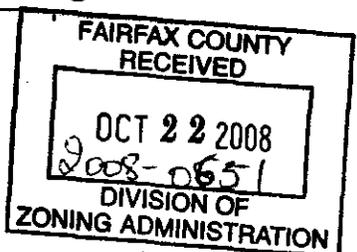


County of Fairfax, Virginia

MEMORANDUM

TO: Loisie Kirst, ZAD
Zoning Administration Division, DP&Z
Technology Infrastructure Division, DIT
Other: _____

DATE: 10-20-08
RECEIVED
Department of Planning & Zoning



FROM: David B. Marshall, Chief
Facilities Planning Branch, DPZ

OCT 24 2008

SUBJECT: Request for Review: 2232 Review Application Zoning Evaluation Division

RE: Application Number: FS-408-~~102~~¹¹³ Tax Map: 46-1 (C1) 6A

Attached for your review and comment is a 2232 Review application:

RECEIVED FROM: Verizon
PROPOSED USE: water tower collocation
LOCATION OF USE: 3663 West Ox Rd

Please send your comments to David Marshall by: 11/4/08 Additional comments:

**ZAD COMMENTS:

Property is zoned R-1
 Proposed use is permitted by Zoning Ordinance and meets all zoning requirements.
 Proposed use does not meet all Zoning Ordinance requirements as follows:

Pursuant to Par 1 of Sect 2-514, the maximum height of panel antennas is 6 feet (72 inches). Since the proposed 72.5" panel antennas exceed that height either a special exception application must be submitted or the antennas reduced in height to not exceed 72 inches.

Referred to ZED for the following: Must be in substantial conformance with the development conditions associated with SEA 77-0-190-02

ZAD comments prepared by: _____ Date: _____

**ZED COMMENTS:

Proposed use is in substantial accord with all development conditions and/or proffers.
 Proposed use is not in substantial accord with development conditions and proffers.

ZED comments prepared by: _____ Date: _____

Department of Planning and Zoning
Planning Division
12055 Government Center Parkway, Suite 730
Fairfax, Virginia 22035-5509
Phone 703-324-1380
Fax 703-324-3056
www.fairfaxcounty.gov/dpz/

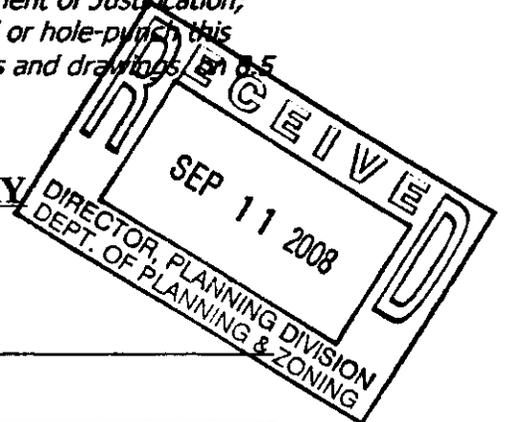
COUNTY OF FAIRFAX, VIRGINIA
APPLICATION FOR DETERMINATION
PURSUANT TO
SECTION 15.2-2232 OF THE CODE OF VIRGINIA

Application Number: FS-108-106113
(assigned by staff)

The application contains three parts: I. Application Summary; II. Statement of Justification; and III. Telecommunication Proposal Details. Please do not staple, bind or hole-punch this application. Please provide at least one copy of all pages, including maps and drawings on 8.5 x 11 inch paper.

(Please Type or Print All Requested Information)

PART I: APPLICATION SUMMARY



ADDRESS OF PROPOSED USE

Street Address 3663 West Ox Road
City/Town Fairfax Zip Code 22033

APPLICANT(S)

Name of Applicant Washington DC SMSA Limited Partnership d/b/a Verizon Wireless

Street Address 9000 Junction Drive

City/Town Annapolis Junction State MD Zip Code 20701

Telephone Number: Work () Fax ()

E-mail Address

Name of Applicant's Agent/Contact (if applicable) Frank W. Stearns

Agent's Street Address 8010 Towers Crescent Drive, Suite 300

City/Town Vienna State VA Zip Code 22182

Telephone: Work (703) 760-1956 Fax (703) 821-8949

PROPOSED USE

Street Address 3663 West Ox Road

Fairfax Co. Tax Map and Parcel Number(s) 0461 01 0006A

Brief Description of Proposed Use Verizon wishes to install a twelve (12) panel antenna
affixed on the top of the water tank behind a screening facade. Verizon will also construct
a 240 sq. ft. equipment building at the base of the water tower.

Total Area of Subject Parcel(s) 332,276 square feet (acres or square feet)

Portion of Site Occupied by Proposed Use 240 sq. ft. (acres or square feet)

Fairfax County Supervisor District Sully

Planned Use of Subject Property (according to Fairfax County Comprehensive Plan)
Public Facility

Zoning of Subject Property R-1

List all applicable Proffer Conditions, Development Plans, Special Exceptions,
Special Permits or Variances previously approved and related to this site

SEA 77-6-190-02

2232 Y07-5

PROPERTY OWNER(S) OF RECORD

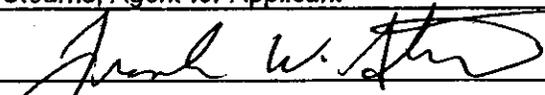
Owner Water Authority, Fairfax County

Street Address 8570 Executive Park Ave

City/Town Fairfax State VA Zip Code 22031

PART II, entitled "Statement of Justification," pages 4 through 6, shall be completed by all applicants and included as part of the application. **PART III**, entitled "Telecommunication Proposal Details," pages 7 through 9, also shall be completed and included for all proposed telecommunication uses.

Name of Applicant or Agent Frank W. Stearns, Agent for Applicant

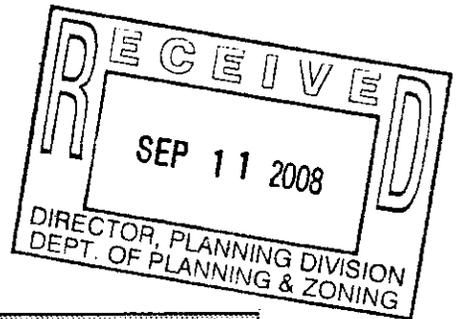
Signature of Applicant or Agent 

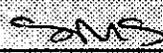
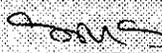
Date September 2, 2008

Please do not staple, bind or hole-punch this application. Please provide at least one copy of all pages, including maps and drawings, on 8.5 x 11 inch paper.

Submit completed application to:

**Fairfax County
Department of Planning and Zoning, Planning Division
Herrity Building
12055 Government Center Parkway, Suite 730
Fairfax, Virginia 22035**



FOR STAFF USE ONLY
Date application received: <u>9/11/08</u>
By: <u></u>
Additional information requested to complete application: _____ _____ _____
Date application accepted: <u>10/20/08</u>
By: <u></u>

PART III: TELECOMMUNICATION PROPOSAL DETAILS

Please complete and provide all requested information. If question is not applicable to the proposed use, please indicate with N/A.

PROPOSED TELECOMMUNICATION USE

Use is (check one):

- New structure (monopole, tower or camouflaged facility)
- Replacement of existing pole or tower at same location with another pole or tower
- Antenna placement on building or penthouse facade
- Antenna placement on building or penthouse rooftop
- Collocation on other existing telecommunications structure (monopole or tower)
- Collocation on other non-telecommunications structure (such as an electric transmission tower/pole, utility pole, water tower, etc.)
- Modification to telecommunications facility previously approved for same applicant:
Prior 2232 Review application number: _____
Date of Planning Commission approval: _____

PROJECT DETAILS

1. ANTENNA

Number and Type: SA 14-78
Dimensions: height 72.8* width 14.5 depth 0 diameter _____
Location / Placement: Top of the Water Tower
Wattage: 250
Material and Color: Grey Aluminum
Material and Color of the Antenna Mounting: Grey/Steel
Height Above Ground: 137

See attached for more Antenna Details

2. EQUIPMENT

Number and Type of Cabinets or Structures: 240 sq. ft. unmanned building
Cabinet / Structure Dimensions: height 12' width 20' depth 10'
Height of equipment platforms, if any: N/A
Material and Color: Grey
Location: Base of the water tower
Method of Screening: _____

3. STRUCTURE ON WHICH ANTENNAS WILL BE MOUNTED

Maximum Height: _____
Material: _____
Color: _____
If structure is within a utility right-of-way, state right-of-way width:

PROJECT DETAILS

1. ANTENNA

Number and Type: MP 16-85
Dimensions: height 47.1" width 6.7" depth 4.1" diameter
Location / Placement: Top of the Water Tower
Wattage: 250 watts
Material and Color: Grey, Aluminum
Material and Color of the Antenna Mounting: Grey/Steel
Height Above Ground: 137'

Number and Type: SA 15-60
Dimensions: height 72.4" width 16.7" depth 9" diameter
Location / Placement: Top of the Water Tower
Wattage: 250 watts
Material and Color: Grey, Aluminum
Material and Color of the Antenna Mounting: Grey/Steel
Height Above Ground: 137'

Number and Type: MP 17-65
Dimensions: height 47.1" width 6.7" depth 4.1" diameter
Location / Placement: Top of the Water Tower
Wattage: 250 watts
Material and Color: Grey, Aluminum
Material and Color of the Antenna Mounting: Grey/Steel
Height Above Ground: 137'

* or maximum height allowed by Zoning Ordinance *MS*

If the proposed structure will replace an existing pole or tower, provide dimensions of the existing structure:

Height of Structure to be Replaced: _____

Diameter or Overall Footprint of Structure to be Replaced: _____

4. ADDITIONAL INFORMATION

The following information, as relevant to the proposal, shall be included:

A. ELEVATIONS: Structural elevation drawings showing the placement of the antenna and the related equipment on the existing or proposed structure;

B. ANTENNA: Details showing the antenna and antenna mountings and the location of the antenna on the building or structure;

C. BUILDING ROOF PLAN AND CALCULATION: If located on a building rooftop, provide a roof plan at a scale of 1"= not more than 20' showing all existing penthouses, structures and mechanical equipment on the roof and the location of the proposed antenna and related telecommunications equipment. Include a calculation stating 1) the percentage of the roof which is covered by all existing structures, and 2) the percentage that will be covered by all existing structures plus the proposed antennas, equipment cabinets and shelters;

D. SCREENING: Details of screening for the equipment structure and/or antenna structure showing type of screening material, dimensions and placement; if landscaping is provided, list the height of the landscaping at time of planting and the ultimate height;

E. PROPERTY PLAT: A plat of the property prepared by a certified engineer showing the location of the proposed ground equipment structure and antenna, the relationship to other structures on site, with measured distances from all property boundaries or easement lines if the structure or antenna is placed in an easement;

F. PHOTOGRAPHS: For collocations on existing buildings or other structures such as power poles or towers, provide photographs of the building or structure showing the proposed placement of the antenna and related equipment;

G. PHOTOGRAPHIC SURVEY: For proposed structures, provide a photographic survey of the project site. Photographs should be taken from the subject property boundaries at four or more locations to show on- and off-site views of the subject property and to identify the proposed location of the facility on the site. The number of photos submitted will vary according to site size but should be adequate to view the entire site;

H. PHOTO SIMULATIONS: Provide photo simulations illustrating the proposed facility, antennas and equipment. Include enough photo simulations to accurately depict the proposed facility. For new structures, the photo simulations should depict the appearance of all proposed structures and equipment as viewed from the subject site and adjoining properties and show the relationship to existing site features such as building, trees and other physical features. For rooftop or structure installations, the photo simulations should depict the appearance of the antennas and equipment when installed. Photo simulations may be submitted to Fairfax County as part of the application. For new structures the simulations may be submitted following completion of an on-site height test.

I. On-site Height Test: For proposed poles or towers, the applicant should conduct an on-site height demonstration, such as a balloon or crane test, to simulate the extent of the proposed structure's visibility from surrounding properties. Such test should be coordinated with the staff coordinator.

END OF APPLICATION

STATEMENT OF JUSTIFICATION
WASHINGTON, DC SMSA LIMITED PARTNERSHIP d/b/a Verizon
Wireless Telecommunication Facility at 3663 West Ox Road,
Tax Map No 046-1((1)) 0006A

Request is hereby made on behalf of Verizon Wireless ("Verizon") pursuant to Section 15.2-2232 of the Code of Virginia as amended for a determination that the proposed wireless telecommunication facility described below is in substantial accord with the Fairfax County Comprehensive Plan ("Plan") and is deemed a "Feature Shown" per Objective 45 of the Policy Plan, Public Facilities, Mobile and Land Based Telecommunications Services, 2003 Edition, as amended through January 10, 2005 ("Policy Plan").

LOCATION

The site is located at 3663 West Ox Road, Tax Map Reference # 046-1 ((1)) 0006A, ("Property") and is currently zoned R-1. The proposed antenna will be located on an existing Fairfax County Water Authority water tank ("Water Tank") with an unmanned equipment building at the base of the Water Tank.

DESCRIPTION OF PROPOSED USE

Verizon proposes to attach 12 antenna at the top of the Water Tank with an overall height of 134 ft. The antenna will be completely enclosed within a sheath which will appear to be part of the Water Tank and therefore the antenna are permitted to be larger than exposed antenna per Fairfax County Zoning Ordinance Section 2-514(1)(D). The antenna are of the following description:

- (i) Three – SA 14-78 measuring 72.4" x 14.5" x 9"
- (ii) Three – MP 16-85 measuring 47.1" x 6.7" x 4.1"
- (iii) Three – SA 15-60 measuring 72.5" x 16.7" x 9"
- (iv) Three – MP 17-65 measuring 47.1" x 6.7" x 4.1"

The antenna will be connected with co-axial cable to a proposed 12' x 20' x 10' (240 square feet) equipment shelter which will be placed near the base of the Water Tank. This equipment building will have an aggregate finish and will be fully screened so is to not be visible from West Ox Road or the community. The unmanned facility will operate continuously. Customers will not visit the facility. There will be NO employees at the site except for visits from a Verizon engineer once or twice per month for maintenance or if there is need of emergency repairs. The facility will have no adverse noise, odors, nor harmful emissions. There will be no radio or electrical interference from the equipment building or antenna. There will be no adverse effect on the use or development of surrounding properties.

REQUIREMENT FOR PROPOSED USE

Verizon uses several tools to judge adequacy of coverage. It has been determined that the system currently has a lack of complete coverage in the West Ox Road area. Feedback from Verizon customers, computer estimations of the actual coverage and measurements of the strength of radio frequency ("RF") signals were used to make this determination.

COMPREHENSIVE PLANNING IMPLICATIONS

This Site is within the Upper Potomac Planning District under the Hickory Community Planning Sector (UP3) of Area III of the Plan. Verizon's proposed location of this telecommunication facility is on an existing structure. The surrounding area is predominately residential and there are no other favorable sites within this search area. This facility will be built with design criteria that mitigate negative impact on the surrounding area and the community that is in keeping with the already established character of the area. See Objectives 42, 43, 44 and 45 of the Policy Plan.

ANTICIPATED IMPACTS ON ADJOINING PROPERTIES AND ENVIRONMENTAL FEATURES

This facility will not have any adverse impact on environmental features, traffic or safety. The mechanical equipment is within an equipment shelter and the antenna will be shielded with a sheath to appear to be a part of the Water Tank.

The view from adjacent residential properties is further blocked by mature trees and plants. The gaps in the established screening between the Property and the residences will be supplemented to effectively block any view of the ground level equipment structure.

ALTERNATIVE SITES CONSIDERED FOR THE PROPOSAL.

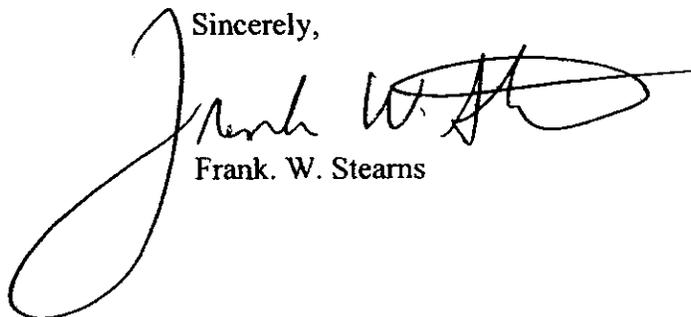
Verizon has done extensive testing in this area and the Water Tank at West Ox Road is the only existing structure that provides consistent, reliable coverage to the entire coverage area. Even alternative sites outside the search area were considered in order to make sure that all options were explored. None of the sites except the subject site, corrected the coverage problem that exists

CONCLUSION:

This proposal meets all the applicable sections of the Comprehensive Plan for a determination that the proposal is a Feature Shown in accordance with the Policy Plan Objective 45 and meets the directives regarding character, location and extent for the proposed use.

If you have any questions or need further information, please free to contact the undersigned.

Sincerely,

A handwritten signature in black ink, appearing to read 'Frank W. Stearns', with a large, stylized initial 'F'.

Frank. W. Stearns



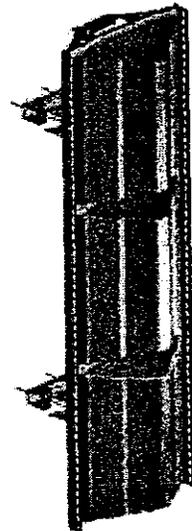
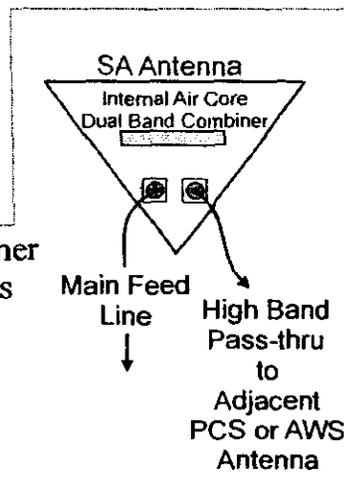
Stripline Array SA14-78

Directing our energies for you.

Dipole Elements

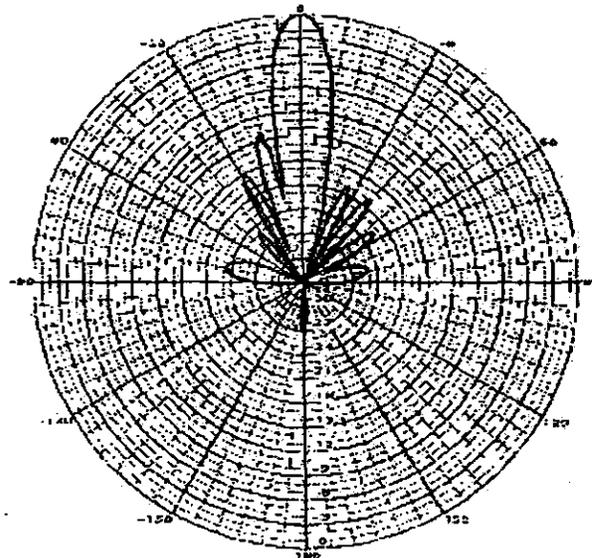
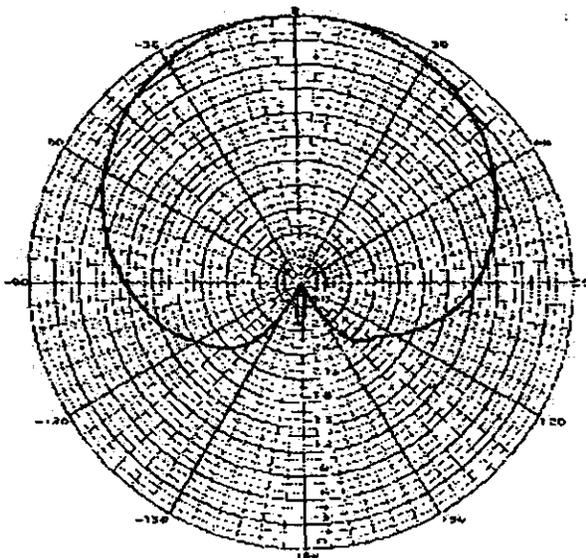
78 degree Azimuth Beam and 14.2 dBd Gain

- Vertically Polarized
- Stripline Feed Eliminates Internal Cabling Network
- Anti-Corrosion Design for Superb IM Performance
- Equalized Aerodynamic Design
- Optional Internal Dual Band Combiner "Opt -i" reduces cable and eliminates separate external box.



Azimuth Beam: 78 degree

Elevation Beam: 11 degree





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Stripline Array SA14-78

Electrical Specifications

Frequency Range	*806-900 MHz
Gain	14.2 dBd
Electrical Downtilt Options	0 Degrees
VSWR	1.35:1 Maximum
Front-to-Back at Horizon	> 27 dB
Upper Side Lobe Suppression	< -21 dB
Elevation Beam (3-dB Points)	11 Degrees
Azimuth Beam (3-dB Points)	78 Degrees
Polarization	Vertical
Impedance	50 Ohms
Power Input Rating	500 CW
Intermodulation Specification	typ. -150 dBc (2x20W)

Mechanical Specifications

Input Connector (female)	Back Mounted 7/16 DIN (Silver Finish)
Antenna Dimensions	72" x 14.5 x 9 inches
Antenna Weight	27.5 lbs
Bracket Weight	10.5 lbs
Lightning Protection	Direct Ground
RF Distribution	Silver Plated Brass
Radome	Ultra High-Strength Luran
Weatherability	UV Stabilized, ASTM D1925
Radome Water Absorption	ASTM D570, 0.45%
Environmental	MIL-STD-810E
Wind Survival	120 mph
Front Wind Load at 100 mph	190 lbs
Front Flat Plate Equivalent	3.88 sq-ft. (c=2)
Mounting Brackets	Fits 2.5 to 3 inch Schedule 40 Pipe
Mechanical Downtilt Range	0-12 Degrees in 1 Degree Increments
Clamps/Bolts	Hot Dip Galvanized Steel/Stainless Steel

Ordering Information

Model	Options
SA14-78-x	x=Electrical Downtilt in Degrees (0)
SA14-78-xi	i=Dual Band Combiner included as an internal device

* other frequency bands available please contact the factory
+ or maximum height allowed by Zoning Ordinance

JWS

Published 03/2008
Subject to alteration.

CSS Antenna, Inc.
Tel: 410-612-0080 Fax: 410-612-0336
www.cssantenna.com





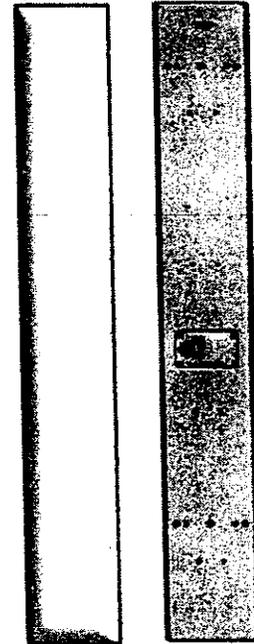
MP16-85

Directing our energies for you.

Dipole Elements

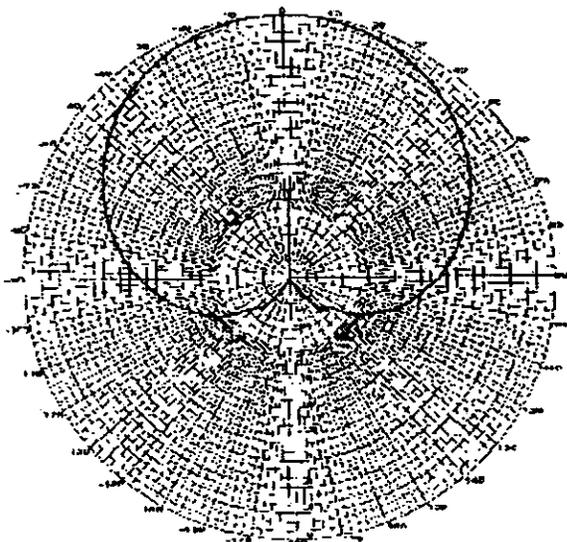
Electrical Specifications

	<u>1850-1990 MHz</u>
Gain	16.3 dBi
Horizontal Beam (1/2 power)	85°
Vertical Beam (1/2 power)	7°
Electrical Downtilt Options	0°, 2° or 4°
VSWR (maximum)	1.35:1
Front-to-Back Ratio	>30 dB
Upper Side Lobe Supp.	<-18 dB
Polarization	Vertical
Impedance	50 ohms
Power Input Rating (per port)	250 CW
Intermodulation (2x20w)	typ. -150 dBc

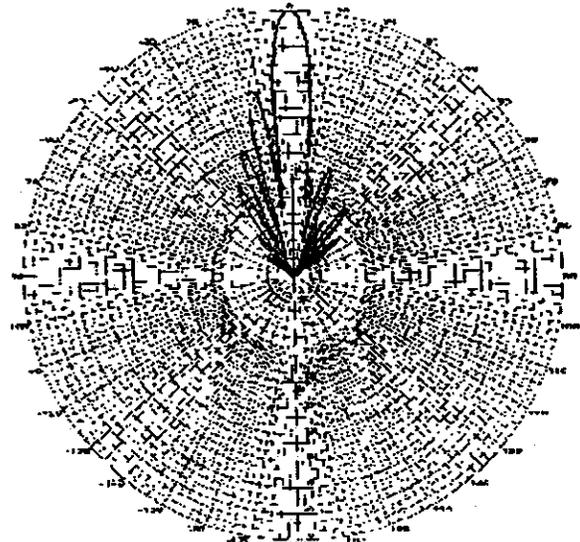


85° Horizontal Beam
7° Vertical Beam
16.3 dBi Gain

Horizontal Beam



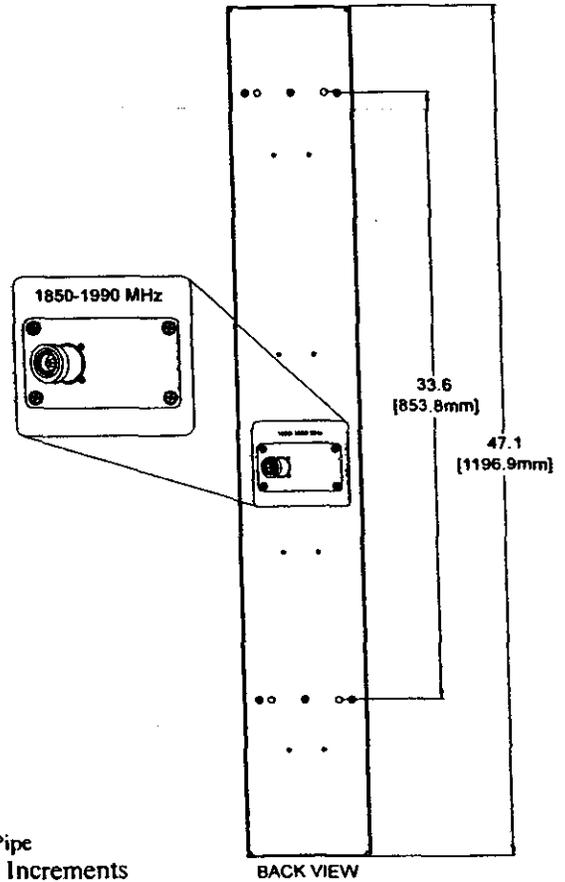
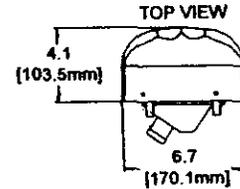
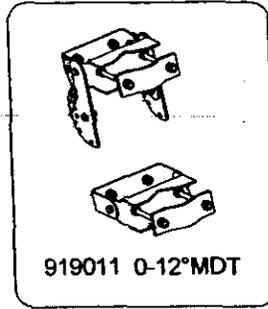
Vertical Beam





Directing our energies for you.

MP16-85



Mechanical Specifications

Input Connectors (female)
 Antenna Dimensions
 Antenna Weight
 Bracket Weight
 Lightning Protection
 RF Distribution
 Radome
 Weatherability
 Radome Water Absorption
 Environmental
 Wind Survival
 Front Wind Load at 100 mph
 Front Flat Plate Equivalent
 Mounting Brackets
 Mechanical Downtilt Range
 Clamps/Bolts

Four Back Mounted 7/16 DIN
 47.1 x 6.7 x 4.1 Inches
 ~10 lbs
 13.4 lbs
 Direct Ground
 Printed Microstrip Substrate
 Ultra High-Strength Luran
 UV Stabilized, ASTM D1925
 ASTM D570, 0.45%
 MIL-STD-810E
 150 mph
 63.5 lbs
 1.35 sq-ft. (c=2)
 Fits 2.5 to 3 Inch Schedule 40 Pipe
 0-12 Degrees in 1 Degree Increments
 Hot Dip Galvanized Steel/Stainless Steel

Model Numbers Option Descriptions

MP16-85x x=Electrical Downtilt in Degrees (0, 2 or 4)

Downtilt and Mounting Bracket Included.



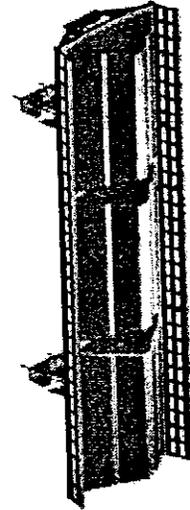
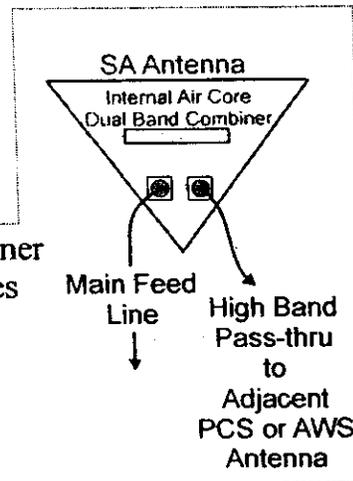
Stripline Array SA15-60

Directing our energies for you.

Dipole Elements

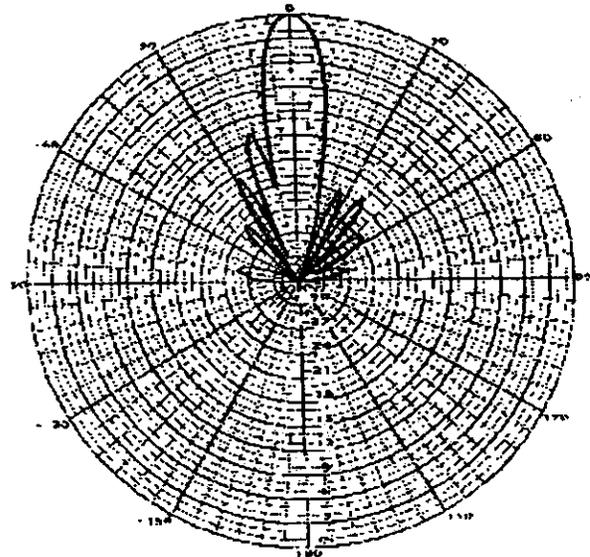
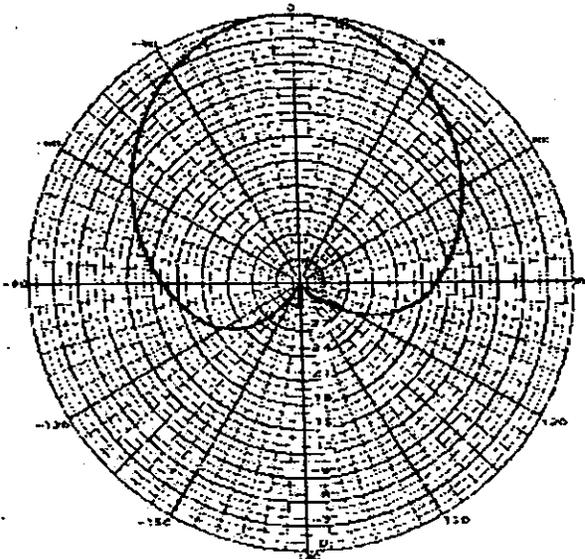
60 degree Azimuth Beam and 15.2 dBd Gain

- Vertically Polarized
- Stripline Feed Eliminates Internal Cabling Network
- Anti-Corrosion Design for Superb IM Performance
- Equalized Aerodynamic Design
- Optional Internal Dual Band Combiner "Opt -i" reduces cable and eliminates separate external box.



Azimuth Beam: 60 degree

Elevation Beam: 11 degree





Directing our energies for you.

Stripline Array SA15-60

Electrical Specifications

Frequency Range	*806-900 MHz
Gain	15.2 dBd
Electrical Downtilt Options	0 Degrees
VSWR	1.35:1 Maximum
Front-to-Back at Horizon	> 30 dB
Upper Side Lobe Suppression	< -21 dB
Elevation Beam (3-dB Points)	11 Degrees
Azimuth Beam (3-dB Points)	60 Degrees
Polarization	Vertical
Impedance	50 Ohms
Power Input Rating	500 CW
Intermodulation Specification	typ. -150 dBc (2x20W)

Mechanical Specifications

Input Connector (female)	Back Mounted 7/16 DIN (Silver Finish)
Antenna Dimensions (LxWxD)	72.4" x 16.7 x 9 Inches
Antenna Weight	28.7 lbs
Bracket Weight	10.5 lbs
Lightning Protection	Direct Ground
RF Distribution	Silver Plated Brass
Radome	Ultra High-Strength Luran
Weatherability	UV Stabilized, ASTM D1925
Radome Water Absorption	ASTM D570, 0.45%
Environmental	MIL-STD-810E
Wind Survival	120 mph
Front Wind Load at 100 mph	213 lbs
Front Flat Plate Equivalent	4.33 sq-ft. (c=2)
Mounting Brackets	Fits 2.5 to 3 Inch Schedule 40 Pipe
Mechanical Downtilt Range	0-12 Degrees in 1 Degree Increments
Clamps/Bolts	Hot Dip Galvanized Steel/Stainless Steel

Ordering Information

Model	Options
SA15-60-x	x=Electrical Downtilt in Degrees (0)
SA15-60-xi	i=Dual Band Combiner included as an internal device

* other frequency bands available please contact the factory
+ or maximum height allowed by Zoning Ordinance



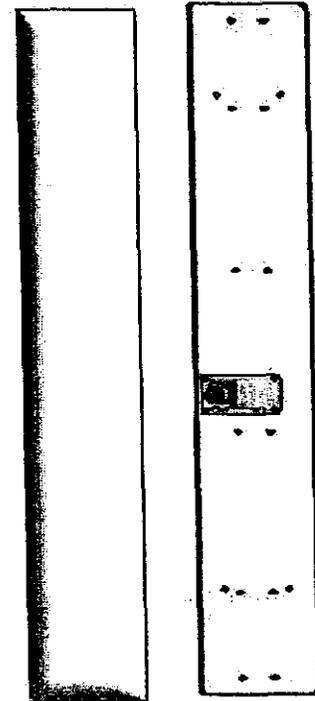
MP17-65

Directing our energies for you.

Patch Elements

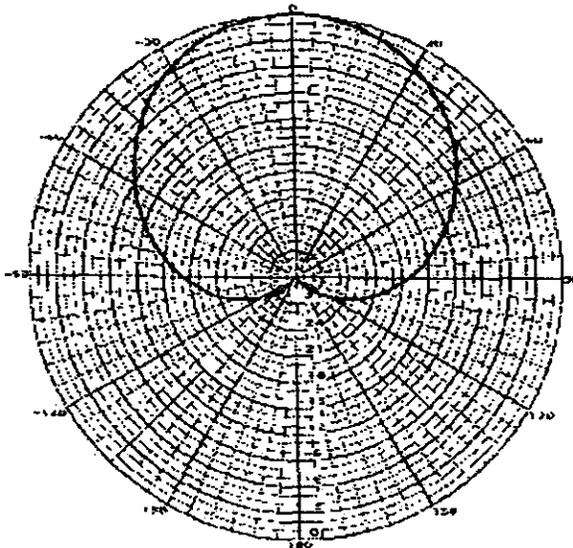
Electrical Specifications

Gain	<u>1850-1990 MHz</u> 17.4 dBi
Horizontal Beam (1/2 power)	65°
Vertical Beam (1/2 power)	7°
Electrical Downtilt Options	0°, 2°, 4° or 6°
VSWR (maximum)	1.35:1
Front-to-Back Ratio	>30 dB
Upper Side Lobe Supp.	<-17 dB
Polarization	Vertical
Impedance	50 ohms
Power Input Rating (per port)	250 CW
Intermodulation (2x20w)	typ. -150 dBc

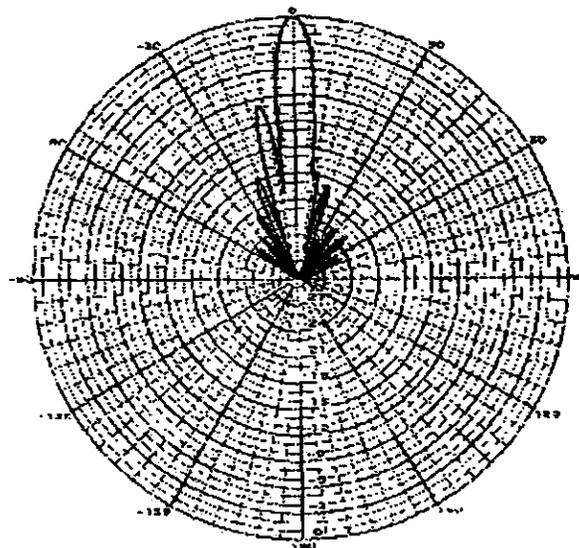


65° Horizontal Beam
7° Vertical Beam
17.4 dBi Gain

Horizontal Beam



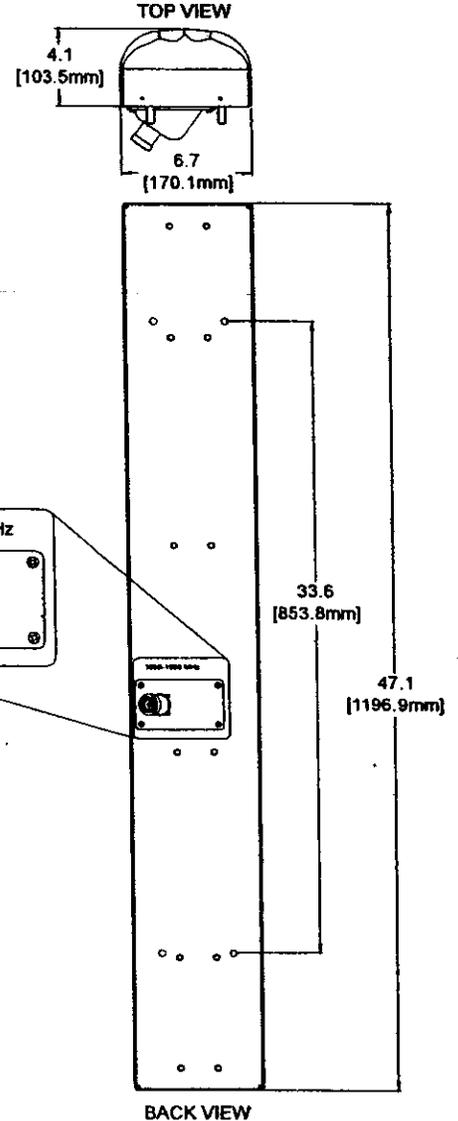
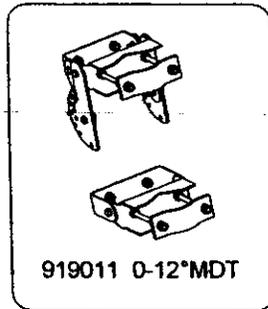
Vertical Beam





Directing our energies for you.

MP17-65



Mechanical Specifications

Input Connectors (female)
 Antenna Dimensions
 Antenna Weight
 Bracket Weight
 Lightning Protection
 RF Distribution
 Radome
 Weatherability
 Radome Water Absorption
 Environmental
 Wind Survival
 Front Wind Load at 100 mph
 Front Flat Plate Equivalent
 Mounting Brackets
 Mechanical Downtilt Range
 Clamps/Bolts

Four Back Mounted 7/16 DIN
 47.1 x 6.7 x 4.1 Inches
 ~10 lbs
 13.4 lbs
 Direct Ground
 Printed Microstrip Substrate
 Ultra High-Strength Luran
 UV Stabilized, ASTM D1925
 ASTM D570, 0.45%
 MIL-STD-810E
 150 mph
 63.5 lbs
 1.35 sq-ft. (c=2)
 Fits 2.5 to 3 Inch Schedule 40 Pipe
 0-12 Degrees in 1 Degree Increments
 Hot Dip Galvanized Steel/Stainless Steel

Model Numbers	Option Descriptions
MP17-65-x	x=Electrical Downtilt in Degrees (0, 2, 4 or 6)

Downtilt and Mounting Bracket Included.

Date: June 16, 2006

Location: Chantilly High School

Time: 7:30 PM

Address: 4201 Stringfellow Road, Chantilly, Virginia 20151

PURPOSE OF THE MEETING

The purpose of this public meeting is to discuss construction of a 6-million gallon water storage tank located on West Ox Road. The new tank will be adjacent to the existing elevated storage tank at this same site. In addition, we will be discussing a second 6-million gallon tank to be built in the future when required by the system.

PROJECT HISTORY AND NEED

To ensure a safe, continuous and reliable drinking water supply, Fairfax Water must increase the amount of water stored in the distribution system. Construction of this water storage tank is part of a multi-million dollar investment being made by Fairfax Water. This system reliability project will increase distribution system storage and add standby power generation at our major water production and pumping facilities.

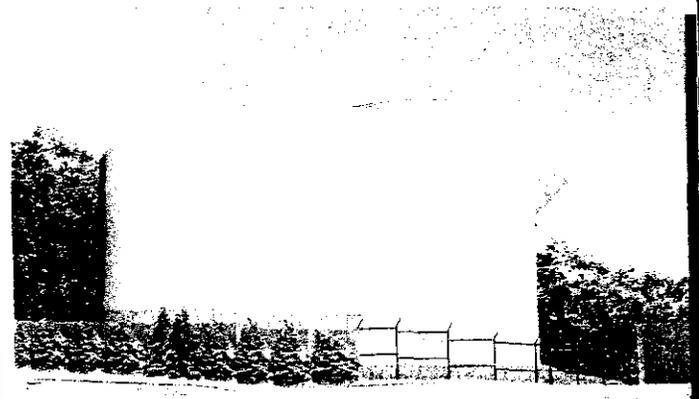
WHY ATTEND?

Public Meetings are beneficial for the community and Fairfax Water alike. Meetings provide opportunities for our customers to learn about our plans and provide input about proposed construction. Community participation provides Fairfax Water with important information about issues critical to our customers. We value your input and the time you spend with us.

WATER STORAGE TANK AT PENDERWOOD



Artist's Concept of the New Storage Tank Looking Southeast on West Ox Road



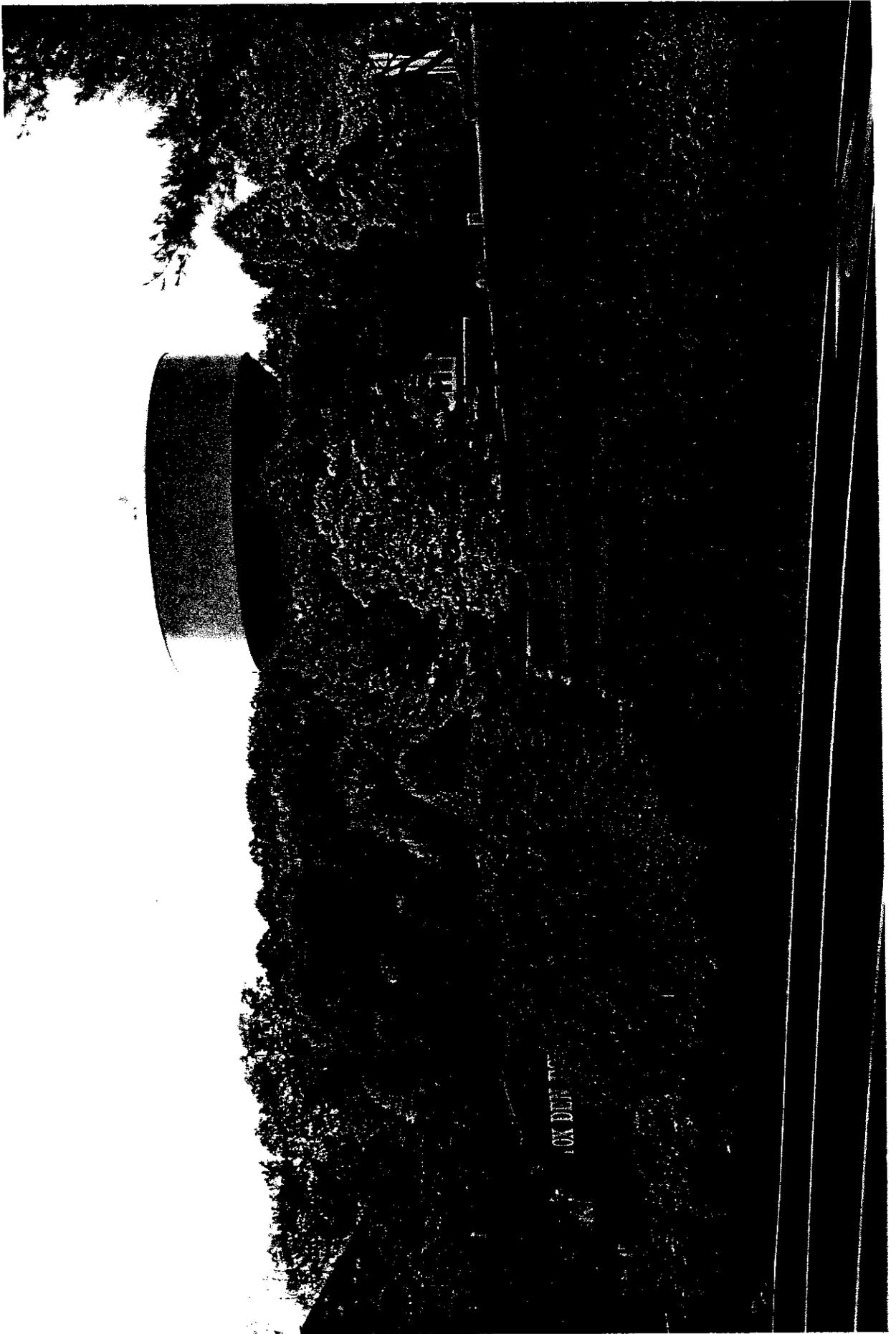
Artist's Concept of the New Storage Tank Looking North into the Site from across West Ox Road
(Existing Elevated Tank can be seen behind the new tank)



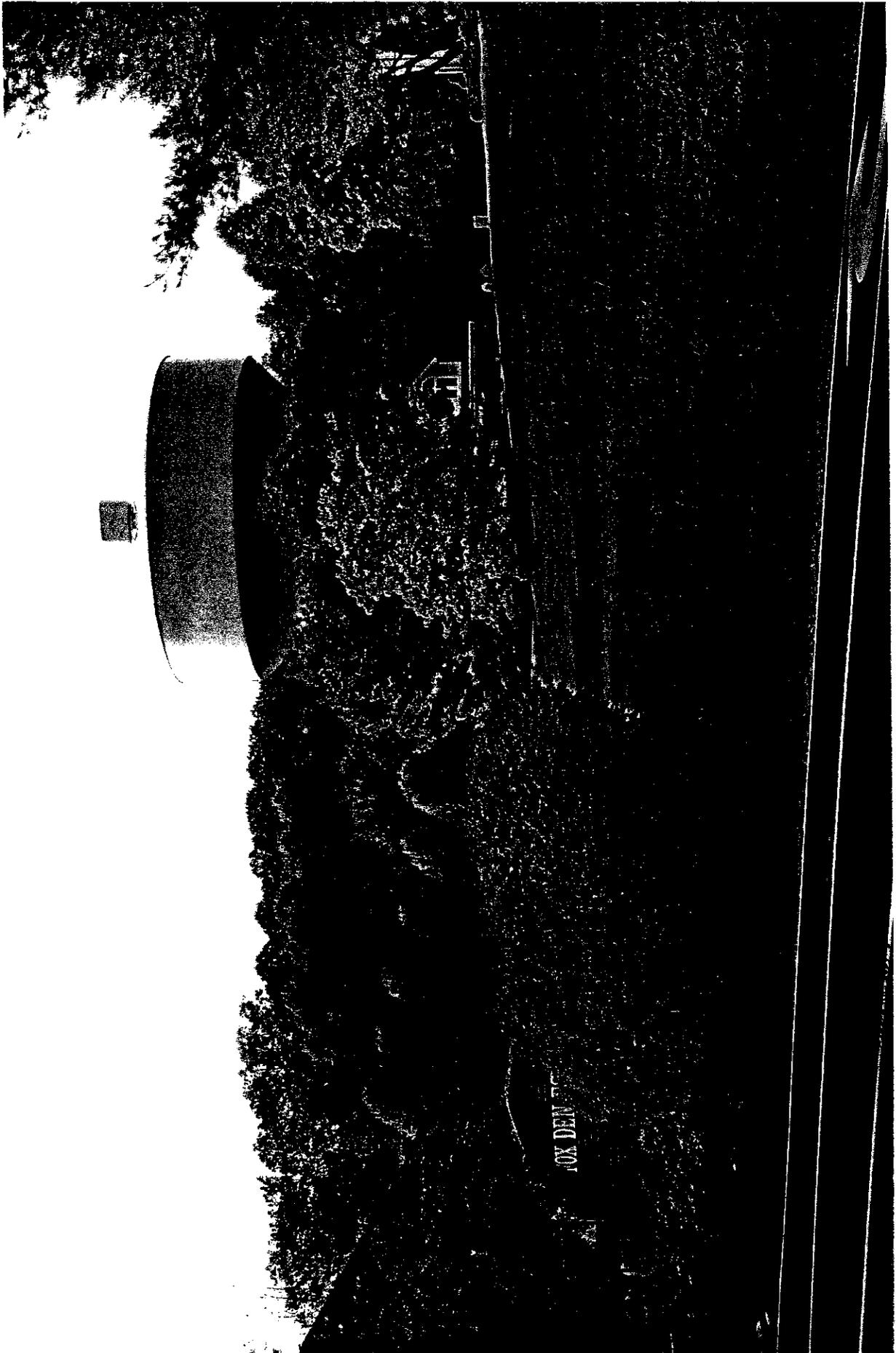
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Waples Mill Rd →

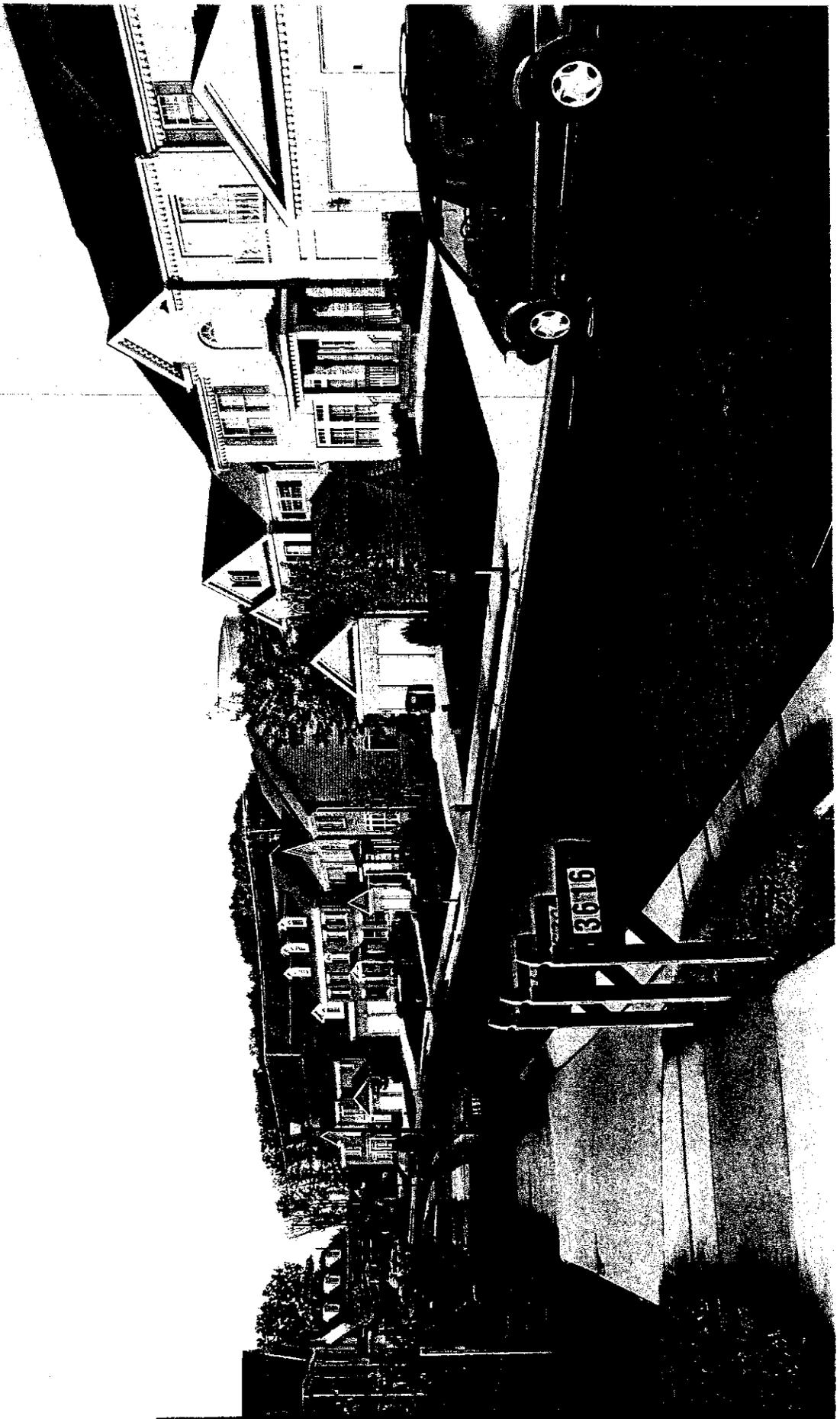
← Ox Ridge Road
Waples Mill Rd →

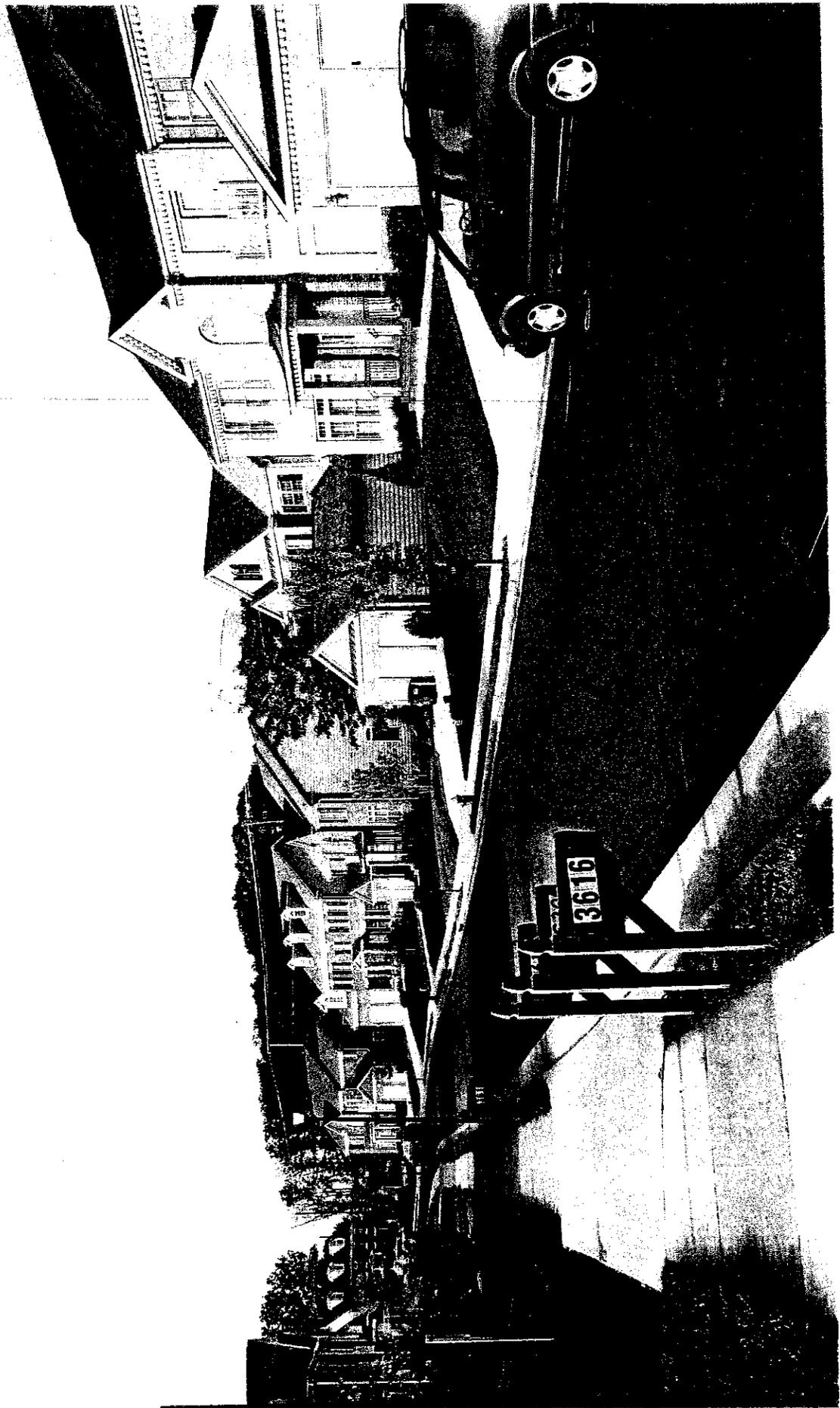




10X DEJ 700







GSE
 GUYTON SHORR
 ENGINEERING, INC.
 3669 WEST OX ROAD, FAIRFAX
 COUNTY, VIRGINIA 22039
 PHONE: (703) 261-1100
 FAX: (703) 261-1101
 WWW.GSE-VA.COM

EVRA
 ENVIRONMENTAL & VISUAL
 RESOURCES ASSOCIATES, INC.
 10000 WOODBURN ROAD, SUITE 100
 FAIRFAX, VIRGINIA 22033
 PHONE: (703) 261-1100
 FAX: (703) 261-1101
 WWW.EVRA.COM

verizon wireless
 DIPPICUT RUN
 FAIRFAX COUNTY, VIRGINIA 22039

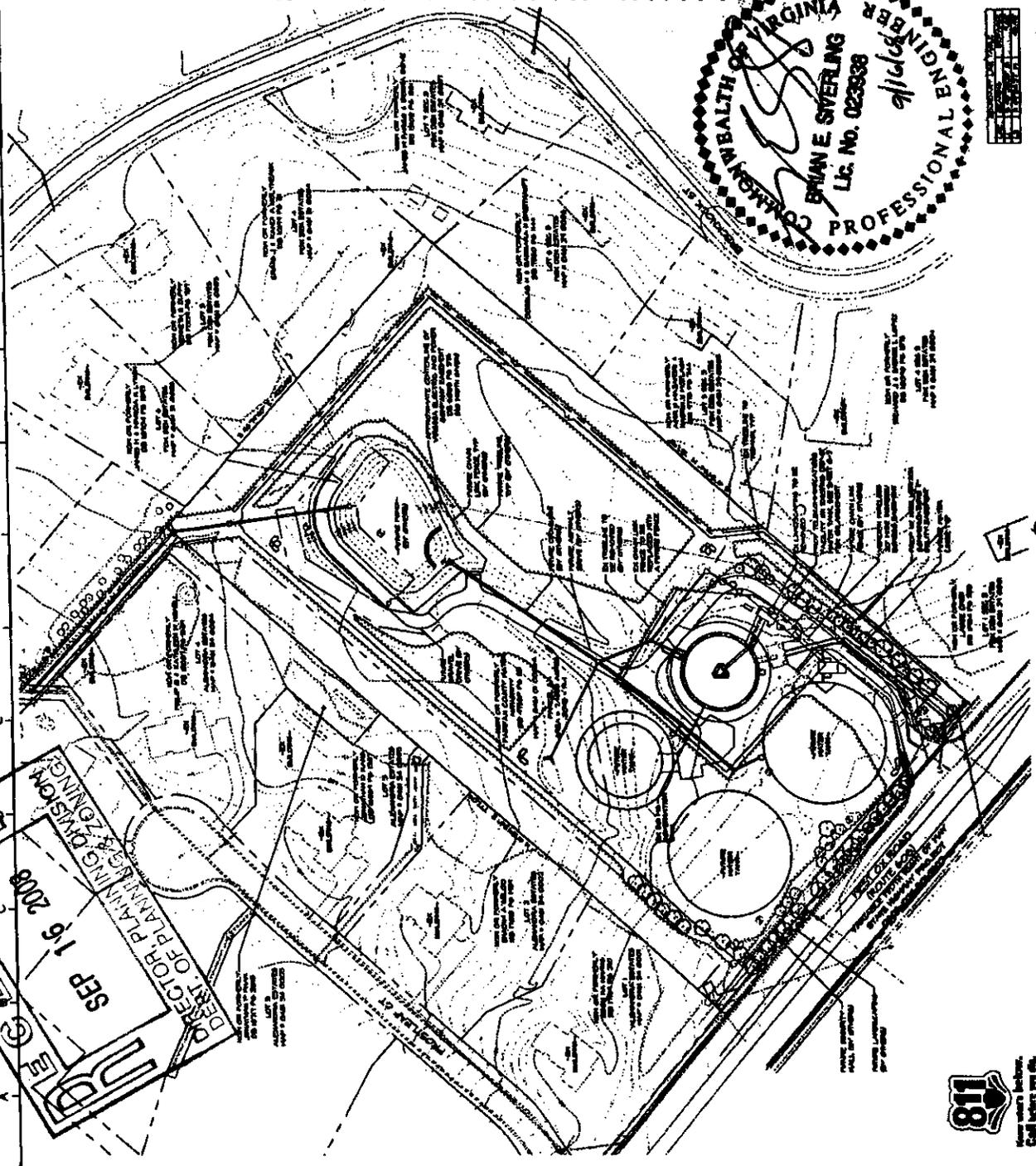
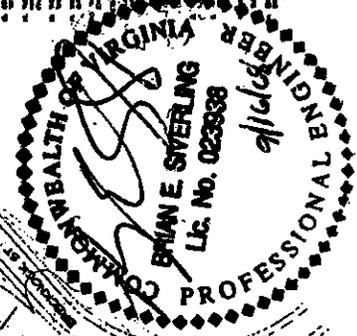
DATE:	10/11/08
PROJECT NO.:	08010001
PROJECT NAME:	DIPPICUT RUN
SCALE:	AS NOTED
DATE:	10/11/08
PROJECT NO.:	08010001
PROJECT NAME:	DIPPICUT RUN
SCALE:	AS NOTED

Site
Plan
C-1

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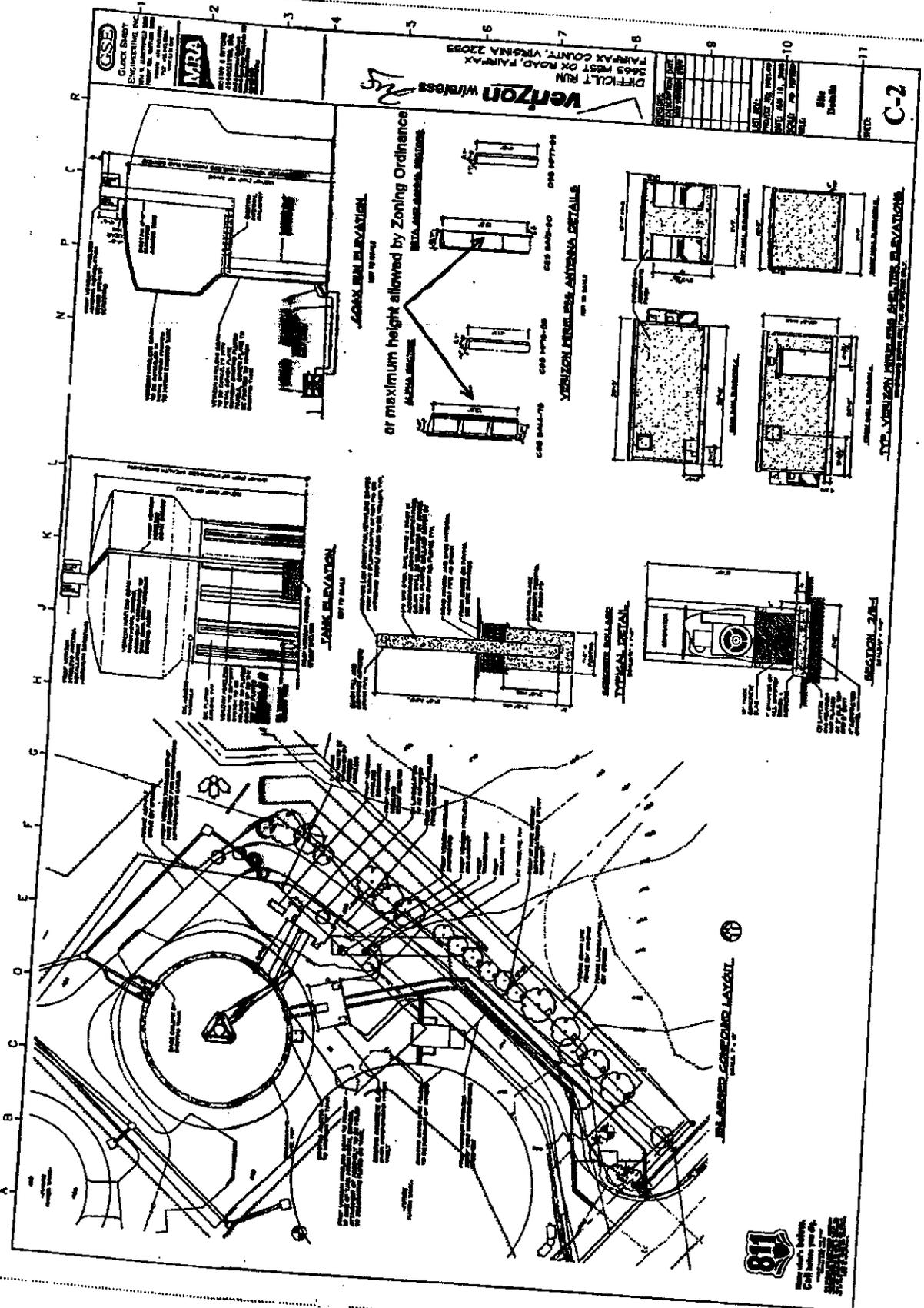


NOTICE TO CONTRACTOR
 THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES AND LOCAL GOVERNMENT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES AND LOCAL GOVERNMENT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES AND LOCAL GOVERNMENT.



APPROVED
 SEP 16 2008
 DIRECTOR OF PLANNING DIVISION
 DEPT. OF PLANNING & ZONING





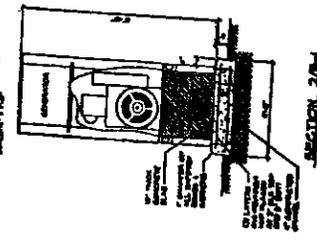
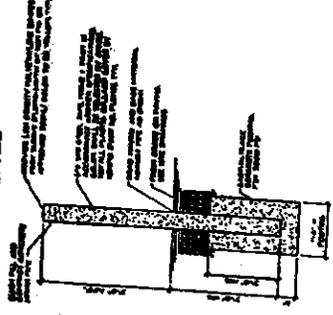
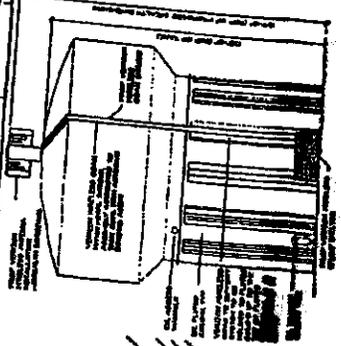
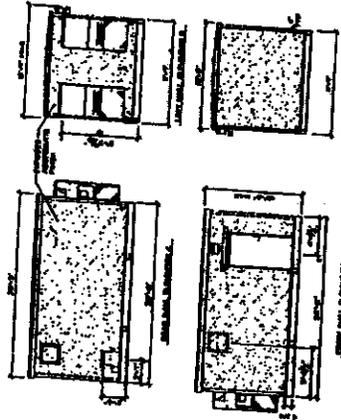
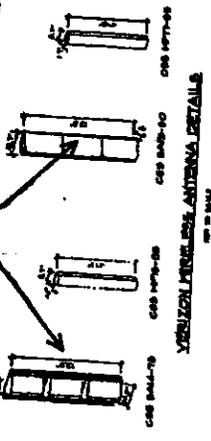
VERTIZON Wireless
 5665 WEST OX ROAD, FAIRFAX
 FAIRFAX COUNTY, VIRGINIA 22033

GSE
 Clark Shuler
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 1000 N. W. 11th Street
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 (954) 561-1111

MRA
 MERRILL RICHARDS
 ARCHITECTS
 1000 N. W. 11th Street
 Ft. Lauderdale, FL 33304
 (954) 561-1111

C-2

or maximum height allowed by Zoning Ordinance



UNANSWERED COMMENTS LAYOUT

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 www.811.com