

▶ **FILE #:** 7-D-09-UR **AGENDA ITEM #:** 43  
 POSTPONEMENT(S): 7/9/2009 **AGENDA DATE:** 8/13/2009

▶ **APPLICANT:** WIRELESS PROPERTIES II, LLC  
 OWNER(S): LANDMARK TENNESSEE LIMITED PARTNERSHIP

TAX ID NUMBER: 68 N B 23.02  
 JURISDICTION: City Council District 5  
 ▶ **LOCATION:** North side of Clinton Hwy., west of Wallwood Rd.  
 ▶ **APPX. SIZE OF TRACT:** 1.29 acres  
 SECTOR PLAN: Northwest City  
 GROWTH POLICY PLAN: Urban Growth Area (Inside City Limits)  
 ACCESSIBILITY: Access is via Clinton Hwy., a major arterial street with a four lane divided median section within a 135' right-of-way.  
 UTILITIES: Water Source: Knoxville Utilities Board  
 Sewer Source: Knoxville Utilities Board  
 WATERSHED: Second Creek

▶ **ZONING:** C-4 (Highway and Arterial Commercial)  
 ▶ **EXISTING LAND USE:** Existing business  
 ▶ **PROPOSED USE:** 180' monopole telecommunications tower

HISTORY OF ZONING: None noted  
 SURROUNDING LAND USE AND ZONING: North: Residences / R-1 (Low Density Residential)  
 South: Mixed commercial businesses / C-4 (Highway and Arterial Commercial)  
 East: Vacant land / O-1 (Office, Medical, and Related Services)  
 West: Mixed commercial businesses / C-4 (Highway and Arterial Commercial)  
 NEIGHBORHOOD CONTEXT: The proposed site is located on the northeast side of the commercial corridor that has developed over the years along Clinton Highway.

**STAFF RECOMMENDATION:**

- ▶ **APPROVE the request for a 180' monopole telecommunications tower in the C-4 zoning district, subject to the following 7 conditions:**
1. Meeting all applicable requirements of the Knoxville Zoning Ordinance.
  2. Meeting all applicable requirements of the Knoxville Department of Engineering.
  3. Revising the access easement so that the easement follows the existing driveways to the site and submitting a revised site plan reflecting the change.
  4. Meeting all access requirements of the Knoxville Fire Marshal (minimum 20' driveway width with an approved turnaround that is 20' in width and 30' in depth)
  5. Since the FAA does not require any lighting for this facility, there shall be no lighting on the tower.

6. Installing the proposed landscaping as shown on the landscape plan within six months of the tower becoming operational.
7. At the time of the request for a building permit, posting a bond or other approved financial surety that would ensure the removal of the tower if it is abandoned.

With the above conditions, this request meets all requirements for approval of a use-on-review in the C-4 zone.

#### **COMMENTS:**

This is a request for a new 180' monopole telecommunications tower to be located within a 6,200 square foot lease area located on the northeast side of Clinton Hwy., northwest of Wallwood Rd. The subject property is zoned C-4 (Highway and Arterial Commercial), and telecommunication towers are considered as a use-on-review in this district.

The applicant, Wireless Properties, LLC is a tower management company. The proposed tower is being built as a capacity site. A capacity site is needed when existing towers and facilities cannot handle the volume of the demand placed on the present carriers in the area. Two carriers, Cricket Communications and Sprint Com, Inc. have submitted letters of intent on utilizing the tower to meet their current demands. The proposed tower will accommodate up to 5 wireless carriers. There are no other antenna support structures within one mile of the proposed site that are useable for the required coverage. An agreement has been submitted stating that Wireless Properties, LLC. agrees to make all of its facilities available to other wireless providers.

A 6' high wooden security fence is being provided. The perimeter of the fenced area will be landscaped with Leyland Cypress on 10' centers. FAA does not require any lighting for the tower and lighting will not be provided.

The Knoxville Zoning Ordinance requires that all towers shall be setback from properties zoned residential, 110% of the height of the tower. At a proposed height of 180', a 198' setback is required from the R-1 property to the northeast. A setback of 252' is being provided from that property line. The nearest residence is approximately 570' from the monopole base.

According to the Knoxville-Knox County Wireless Communications Facility Plan, the proposed location for the 180' monopole (classified as a "tall monopole") is considered to be in an "Opportunity Area" since it is located within an "office/commercial corridor". The plan takes a neutral position on a "tall monopole" at this location.

Attached to the staff report are several support documents, including a report from MPC's tower consultant, Mr. Larry E. Perry. Mr. Perry's report describes the proposal and highlights his findings. Mr. Perry concludes that the 180' tower is technically justified by the materials submitted by the applicant.

#### **EFFECT OF THE PROPOSAL ON THE SUBJECT PROPERTY, SURROUNDING PROPERTY AND THE COMMUNITY AS A WHOLE**

1. The proposed development will have minimal impact on local services since all utilities are in place to serve this development.
2. The base of the tower and the tower enclosure will be screened from adjoining properties. With the proposed screening and a 252' setback from adjoining residential property (and 570' to the nearest residence), the impact on nearby residences will be minimal.

#### **CONFORMITY OF THE PROPOSAL TO CRITERIA ESTABLISHED BY THE KNOXVILLE ZONING ORDINANCE**

1. The proposed commercial telecommunications tower at this location, with the recommended conditions, meets the standards required in the C-4 zoning district.
2. The proposed tower is consistent with the general standards for uses permitted on review: The proposed tower is consistent with the adopted plans and policies of the General Plan and One Year Plan. The use is in harmony with the general purpose and intent of the Zoning Ordinance. The use will not draw additional traffic through residential areas.

#### **CONFORMITY OF THE PROPOSAL TO ADOPTED PLANS**

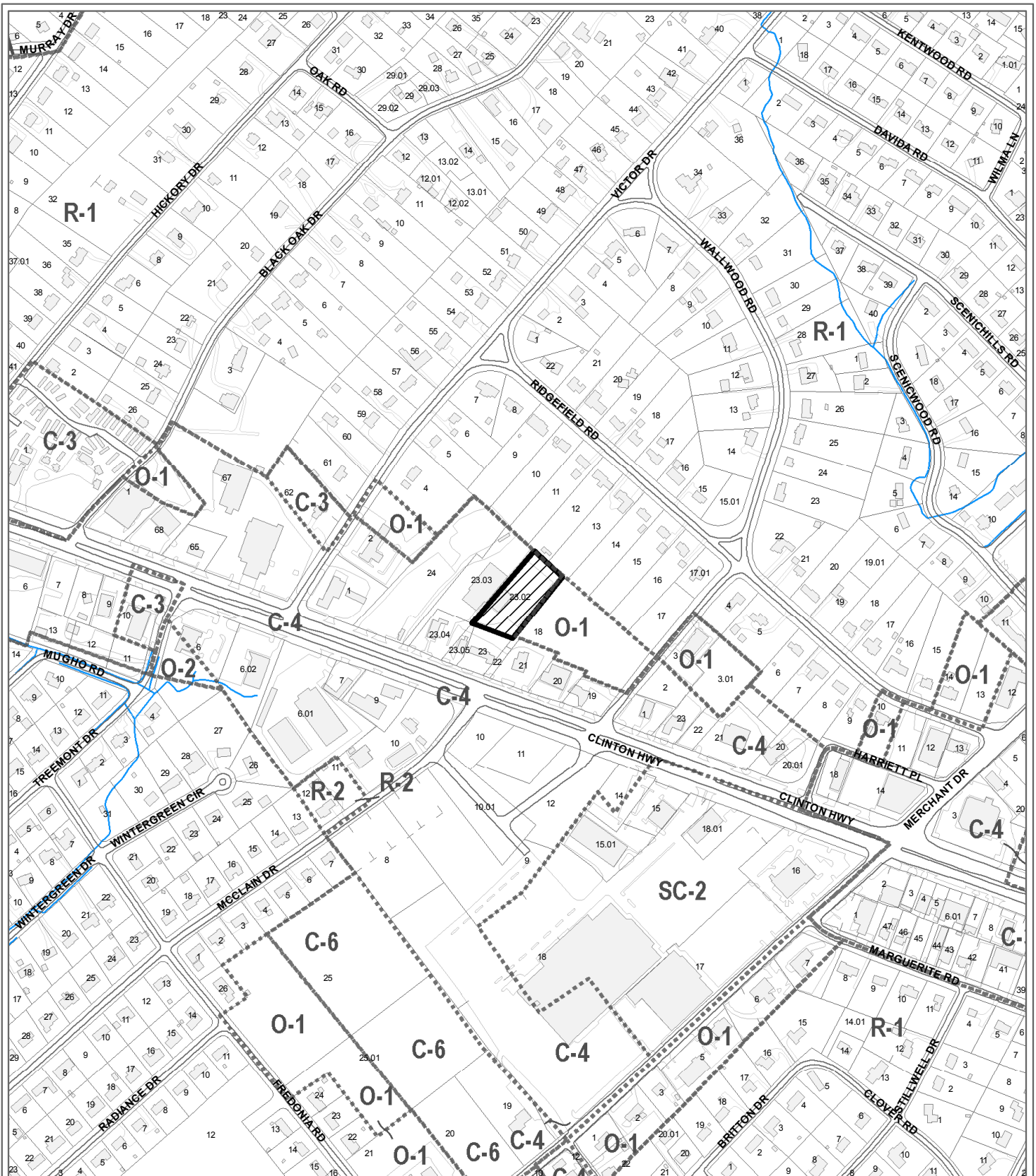
1. The Northwest City Sector Plan and One Year Plan identify this property for commercial use. The proposed development is consistent with this land designation.

2. The Wireless Communications Facility Plan identifies the proposed 180' monopole as a "tall monopole". Under the guidelines for Tower Placement section of the Facility Plan, the proposed tower falls within the "Opportunity Area" category since it is within an office/commercial corridor. The Plan takes a neutral position on a tall monopole at this location.

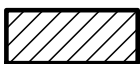
ESTIMATED TRAFFIC IMPACT: Not calculated.

ESTIMATED STUDENT YIELD: Not applicable.

MPC's approval or denial of this request is final, unless the action is appealed to the Knoxville City Council. The date of the Knoxville City Council hearing will depend on when the appeal application is filed. Appellants have 15 days to appeal an MPC decision in the City.



**7-D-09-UR  
USE ON REVIEW**



180' monopole telecommunications tower in C-4 (Highway and Arterial Commercial)

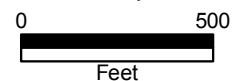
Original Print Date: 6/23/2009  
Metropolitan Planning Commission \* City / County Building \* Knoxville, TN 37902

Revised:

Petitioner: Wireless Properties II, LLC

Map No: 68

Jurisdiction: City



**WIRELESS PROPERTIES, LLC**

**Telecommunications Tower Site Review**

**USE ON REVIEW APPLICATION # 7-D-09-UR**

**CONSULTANT'S SUMMARY**

**Clinton Highway Site**

**Knoxville City**

**Location:** 5634 Clinton Highway

**Proposed Tower Height:** 180 foot monopole

**Address:** 5634 Clinton Highway  
Knoxville, Tennessee

**District:** # 5 City **Tax ID:** 068BNB02302

**Use:** Telecommunications antenna support structure

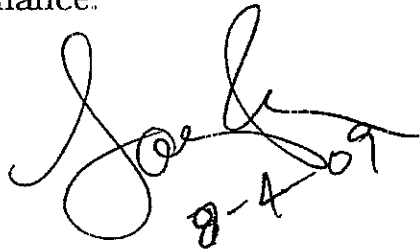
**Zoning:** C-4 (Commercial)

**Variances and waivers:** None required or requested

**Need:** The applicant is Wireless Properties, LLC a private tower management company who is erecting the monopole for Cricket Communications, a licensed PCS carrier by the Federal Communications Commission and possibly other users.

**Instant Proposal:** Construct a 180 foot monopole type support structure.

**Consultant's Recommendation:** The site and application meets the requirements of the Ordinance.

A handwritten signature in black ink, appearing to be 'D. L. ...', with the date '8-4-09' written below it.

**REPORT TO  
METROPOLITAN PLANNING COMMISSION**

for

Proposed Telecommunications Tower Site  
Located at 5634 Clinton Highway  
Knoxville, TN known as

**CLINTON HIGHWAY SITE**

**US CELLULAR**

**UOR 7-D-09-UR**

**COMPLIANCE WITH**

**THE MPC TELECOMMUNICATIONS FACILITY ORDINANCE**

8/4/2009

The proposed site for the applicant is a 180 foot monopole antenna support structure (including antennas and lightning rod) to be located on Clinton Highway near Merchants Road in Northwest Knoxville City. The supporting material from applicant has been reviewed for technical and Federal/State legal compliance As well as with the Knoxville Wireless Communication Facilities Plan from 2002. This is a new telecommunications site. This site is known as a capacity site (explained in the report).

**REQUESTED**

1. **Location.** The location is within the **City** of Knoxville in **District 5** and is located at **Tax ID # 068NB02302**.

2. **Zoning.** C-4 (Commercial)

3. **Structure height.** The requested height is 180 feet above ground level will support up to 4 additional telecommunications carrier antennas for a total of 5 users. Lighting will not be required on this structure.

4. **Variances.** The set back requirements in Article 4.92 of the Ordinance for Knoxville County for "A" sites requires that the structure be set back a minimum distance of 110% of the structure height or in this case 198 feet from the nearest dwelling unit (residence). The proposed site meets that requirement and no variances are required. The nearest residence is about 570 feet from the monopole base.

5. **Site.** This application is for the construction of a new monopole type antenna support structure to be located just off Clinton Highway across the street from McClain Drive.

6. **Use.** This antenna support structure will be used for telecommunications with the present state of the art communications technology using PCS and cellular communication sources. The applicant is Wireless Properties, LLC a site management company that erects and leases antenna space for cellular carriers and there are 4 possible additional telecommunications users for the facility.

7. **Setbacks.** The setback requirements are that the facility must be 110% height of the tower from any dwelling unit. The applicant meets that requirement and no variances are required.

8. **Height.** The proposed structure is for 180 feet.

## **EVALUATION**

The following is a list of items reviewed:

Zoning Ordinance for Knoxville Tennessee by Metropolitan Planning Commission---Telecommunication Facilities Section (as amended thru October 1, 2004)

Knoxville City Wireless Communications Facilities Plan dated 2002.

Check for other existing towers capable of supporting the load and elevation clearance requested by the applicant herein and within 1 mile radius of site.

Check for Antenna Support Structure stress analysis for co-location users' equipment support

Review support structure drawings and specifications with applicant

Review FAA lighting and marking requirements and proposals

Review FCC requirements regarding signal coverage, towers and lighting

Review applicant's justification for site in compliance with the FCC's requirements for telecommunication company providers compliance with required coverage for the use of the general public.

Review Site plan by applicant  
Check Zoning

Check setbacks for building and antenna support structure

Check for compliance with Wireless Communication Facility Plan

Check proximity to other structures and district boundaries

Check nature of surrounding land uses

Check surrounding foliage and tree coverage

Check design of tower for esthetic changes

Check height requirements necessary for coverage

Check separation from other towers

Check frequencies proposed for possible interference to TV and radio reception in the immediate vicinity of the structure.

## **DISCUSSION**

I visited the proposed tower site that is a part of this review and discussed the area with the applicant.

The site elevation at this location is 1086 feet above sea level. It is located on a cleared parcel with trees on two sides. The location is zoned C-4 and is adjacent to an O-1 (office) zoned parcel on the east.

The request is for a 180 foot monopole of which Cricket or one cellular carrier will use the top 15 feet and the additional usable lower 100 feet is for other carriers' expansion.

This a "capacity" site. By that is meant that the coverage by existing towers cannot handle the capacity that is being required by users and that this site will relieve the congestion of other sites. This being caused by the new technology of high speed data transmission which requires wider bandwidth (more space) than previous. In addition, the FCC has recently authorized new carriers to come into the area as competition to the existing 6 carriers already here. This monopole site will allow for 4 other users, several of which may be the new carriers to the area.

The proposed structure should not affect adjacent property as it is on a parcel of land that is in a commercial zone and next door to a warehouse facility.

It is located in an C-4 zoned area.

## **DISCUSSION RE FACILITIES PLAN**

*The Facilities plan is a guideline adopted by the MPC in 2002 for the placement and appearance of wireless communications facilities. The following discussion is based on this application and how it relates to the Plan. The plan is an advisory plan and not a legal requirement.*



(1) **View Protection**--The structure (180 feet) coupled with no lighting requirements should have little or no impact on the view in the area.

(2) **Land Use Compatibility**---The proposed site is on a hill. The structure and associated building/facilities would be compatible with the local land use. The site will be unmanned and will have no impact on noise, traffic or air pollution.

(3) **Design Compatibility**---The proposed landscaping and facility design would blend in with surrounding agricultural land usage and design. The new structure will be a monopole type structure which is the least obtrusive type antenna support structures. from a visibility viewpoint.

(A) **Opportunity Area**---This location is in an Opportunity area in that it is more than 500 feet of a residential home. There is a small uninhibited outbuilding about 275 feet from the monopole base, but there are no residential homes within 500 feet radius of the base.

## **SUMMARY**

(1) The proposed antenna support structure is a 180 foot Monopole including antennas. Lighting will be **not** required for this structure by the FAA due to its proposed height.

(2) A review of the structure stress analysis on the proposed structure and specifications support the use of the lattice tower by four other potential users in the future.

(3) The structure design meets or exceeds FCC and EIA requirements.

(4) The area surrounding the site is in a commercial area Commercial and adjacent to an Office zoned parcel. There are no residences within 500 feet of the base of the monopole.

(5) There is no general use technology (such as satellite communications) that is available at the present time nor in the immediate future that would negate the need for the structure. However, should such a technology become available and the structure of no further use, the Ordinance at Article 4.92 requires it to be removed.

(6) The proposed equipment housing facility is an outdoor cabinet and will have no impact on the aesthetics of the adjacent land uses. The landscape plan indicates that the fenced area will be surrounded by wooded vegetation that is presently existing.

(7) The applicant has received requests for the site from cellular carriers authorization from the various governmental agencies, including the Federal Communications Commission, to provide communication service to the citizens of Knoxville, Tennessee.

(8) The requested site may have some minimal impact on the residents to the north, east and west as to aesthetics.

(9) There are no other antenna support structures within 1 mile of the proposed site that are usable for the coverage required.

(10) There are no waivers requested or required.

(11) The proposed site and structure will have no environmental impact within the federal guidelines.

(12) Assuming that there are 4 carriers operating cellular or PCS transmitters/receivers at this site and all are operating at the same time, the radiation produced by the combination of all the users at the same time using the standards and protocols proposed and used by the carriers today, will be considerably below that established by the Federal Communications Commission and the EPA as creating any danger to humans or animals.

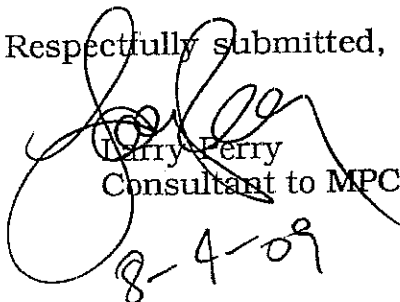
(13) There is a need for the structure in this area to provide for the wide spectrum wireless internet service and for other wireless voice and data services to be provided under government regulation by the various proposed carriers who plan to use the site.

(14) The applicant has supplied letters and copies of correspondence from potential users that justify the height and the location.

## RECOMMENDATION

In light of the analysis and review of documents, it is my professional opinion that the applicant meets all requirements of the Ordinance.

Respectfully submitted,

  
Larry Perry  
Consultant to MPC  
8-4-09



Imagery ©2009 DigitalGlobe, GeoEye, U.S Geological Survey, USDA Farm Service Agency - Terms of Use



August 4, 2009

Mr. Larry Perry  
Consultant to Knox MPC  
11464 Saga Lane  
Knoxville, Tennessee 37931-2819

Re: Wireless Properties II, LLC Proposed 180' Monopole communications tower  
TN 115 Knoxville Clinton Hwy/Merchants Dr.

Dear Mr. Perry:

My name is Terry Shakeshaft, RF Engineering Manager for Cricket's southeast region, which includes our Knoxville, TN market. I would like to further clarify our need for the proposed 180' monopole tower located at 5634 Clinton Hwy.

Cricket currently sells two products that are fundamental to our business success: 1) a traditional wireless flat-rate voice service and 2) a new wireless broadband data service for internet connectivity. Since both products require adequate RF coverage to satisfy our customers, we constantly strive to improve our coverage to improve the customer experience with our products.

The primary objective of this proposed site is to improve our voice and broadband coverage into nearby residences and other structures. Referencing the attached map of a recent drive test, neighborhoods located immediately to the north, west, and southeast of the proposed site indicate marginal or poor coverage conditions (red-dashed areas). These test results are consistent with recent customer complaints received by Cricket suggesting poor in-building coverage. Additionally, since this one of our busier portions of the network, we are quickly approaching the point where a capacity site must be added to mitigate a steadily growing customer demand.

To be clear, we are requesting this site at 180 feet to enable Cricket Communications to improve our voice and broadband coverage to the surrounding neighborhoods and businesses and to alleviate potential capacity issues.

We hope that this further details Cricket's position in this matter so that the MPC can better understand the need for coverage in this immediate area.

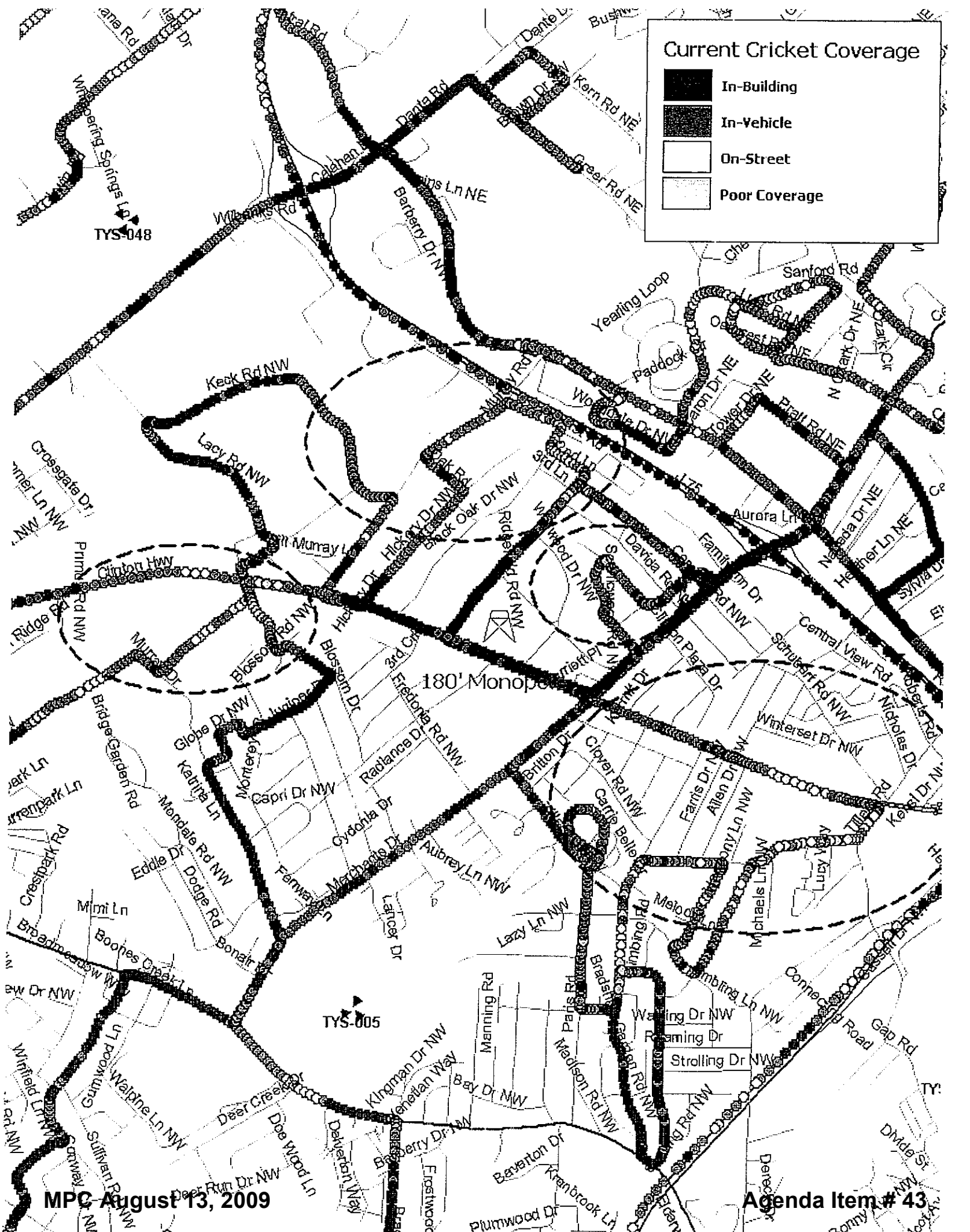
Best Regards,

**Terry Shakeshaft**

Terry Shakeshaft  
Regional RF Engineering Manager - Southeast  
Cricket Communications, Inc.  
2550 Meridian Blvd, Suite 300  
Franklin, TN 37067  
Cell: 615-596-0686  
Desk: 615-742-7646  
[tshakeshaft@cricketcommunications.com](mailto:tshakeshaft@cricketcommunications.com)

Current Cricket Coverage

- In-Building
- In-Vehicle
- On-Street
- Poor Coverage



7-D-09-UR - cor - Seymour

ARTHUR G. SEYMOUR JR  
FRANCIS A. CAIN  
ROBERT L. KAHN  
REGGIE E. KEATON  
DONALD D. HOWELL  
DEBRA L. FULTON  
MICHAEL W. EWELL  
IMOGENE A. KING  
JOHN M. LAWHORN  
JAMES E. WAGNER  
BEVERLY D. NELMS  
MARY ELIZABETH MADDOX  
BENJAMIN C. MULLINS  
RICHARD T. SCRUGHAM, JR  
MATTHEW A. GROSSMAN  
SHARON POTTER  
KEVIN A. DEAN

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June 3, 2009



Mr. Tom Brechko  
**Metropolitan Planning Commission**  
400 Main Street, Suite 403  
Knoxville, TN 37902

Re: Applicant: Wireless Properties II, LLC  
File Number: 7-D-09-UR

Dear Tom:

Please let me supplement the above filing with the enclosed letter from the FAA with a determination that there is no hazard to air navigation associated with the tower proposed for Clinton Highway.

If you need anything further from me, please advise.

Very truly yours,

Arthur G. Seymour, Jr  
FRANTZ, McCONNELL & SEYMOUR, LLP

AGSJ:alh  
Enc.

cc: Mr. Josh Ligon (via email only)(w/o enc.)

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Federal Aviation Administration  
Air Traffic Airspace Branch, ASW-520  
2601 Meacham Blvd.  
Fort Worth, TX 76137-0520

Aeronautical Study No.  
2009-ASO-2581-OE

Issued Date: 05/31/2009

Matt Bates  
Wireless Properties II, LLC  
707 Republic Centre 633 Chestnut Street  
Chattanooga, TN 37450

**\*\* DETERMINATION OF NO HAZARD TO AIR NAVIGATION \*\***

The Federal Aviation Administration has conducted an aeronautical study under the provisions of 49 U S C., Section 44718 and if applicable Title 14 of the Code of Federal Regulations, part 77, concerning:

Structure: Antenna Tower TN-115 Clinton Highway  
Location: Knoxville, TN  
Latitude: 36-00-22.42N NAD 83  
Longitude: 83-59-08 67W  
Heights: 199 feet above ground level (AGL)  
1293 feet above mean sea level (AMSL)

This aeronautical study revealed that the structure does not exceed obstruction standards and would not be a hazard to air navigation provided the following condition(s), if any, is(are) met:

Based on this evaluation, marking and lighting are not necessary for aviation safety. However, if marking and/or lighting are accomplished on a voluntary basis, we recommend it be installed and maintained in accordance with FAA Advisory circular 70/7460-1 K Change 2.

This determination expires on 12/01/2010 unless:

- (a) extended, revised or terminated by the issuing office.
- (b) the construction is subject to the licensing authority of the Federal Communications Commission (FCC) and an application for a construction permit has been filed, as required by the FCC, within 6 months of the date of this determination. In such case, the determination expires on the date prescribed by the FCC for completion of construction, or the date the FCC denies the application.

**NOTE: REQUEST FOR EXTENSION OF THE EFFECTIVE PERIOD OF THIS DETERMINATION MUST BE POSTMARKED OR DELIVERED TO THIS OFFICE AT LEAST 15 DAYS PRIOR TO THE EXPIRATION DATE**

This determination is based, in part, on the foregoing description which includes specific coordinates, heights, frequency(ies) and power. Any changes in coordinates, heights, and frequencies or use of greater power will void this determination. Any future construction or alteration, including increase to heights, power, or the addition of other transmitters, requires separate notice to the FAA.

This determination does include temporary construction equipment such as cranes, derricks, etc , which may be used during actual construction of the structure. However, this equipment shall not exceed the overall heights as indicated above. Equipment which has a height greater than the studied structure requires separate notice to the FAA.

This determination concerns the effect of this structure on the safe and efficient use of navigable airspace by aircraft and does not relieve the sponsor of compliance responsibilities relating to any law, ordinance, or regulation of any Federal, State, or local government body.

A copy of this determination will be forwarded to the Federal Communications Commission if the structure is subject to their licensing authority.

If we can be of further assistance, please contact our office at (847) 294 8084. On any future correspondence concerning this matter, please refer to Aeronautical Study Number 2009-ASO-2581-OE

**Signature Control No: 630500-109551779**

( DNE )

Carole Bernacchi  
Technician

Attachment(s)  
Frequency Data



**Frequency Data for ASN 2009-ASO-2581-OE**

<b>LOW FREQUENCY</b>	<b>HIGH FREQUENCY</b>	<b>FREQUENCY UNIT</b>	<b>ERP</b>	<b>ERP UNIT</b>
806	824	MHz	500	W
824	849	MHz	500	W
851	866	MHz	500	W
869	894	MHz	500	W
896	901	MHz	500	W
901	902	MHz	7	W
930	931	MHz	3500	W
931	932	MHz	3500	W
932	932.5	MHz	17	dBW
935	940	MHz	1000	W
940	941	MHz	3500	W
1850	1910	MHz	1640	W
1930	1990	MHz	1640	W
2305	2310	MHz	2000	W
2345	2360	MHz	2000	W

**EXHIBIT 7.  
LAND USE/WIRELESS FACILITIES MATRIX**

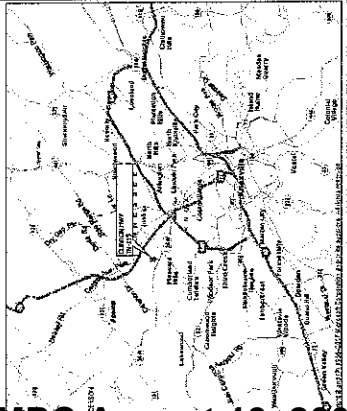
	Co-Location	Stealth Structure	Low Monopole Below 90'	Moderate Monopole 90'-150'	Tall Monopole 150'-199'	Lattice Tower	Guyed Tower
<b>Opportunity Areas</b>							
Industrial/Business Park							
Industrial Use							
Pre-approved Government-owned Property							
Urban Expressway Corridor							
Rural/Heavily Wooded							
Pasture							
Central Business District							
Office/Commercial Corridor *					Neutral		
Shopping Center							

	Co-Location	Stealth Structure	Low Monopole Below 90'	Moderate Monopole 90'-150'	Tall Monopole 150'-199'	Lattice Tower	Guyed Tower
<b>Sensitive Areas</b>							
Within 500' of a residence							
Rural Residential							
Non-residential Properties in a Residential Area (church, cemetery, library, etc.)							
Multi-family Residential							
On Hill Below Ridgeline							

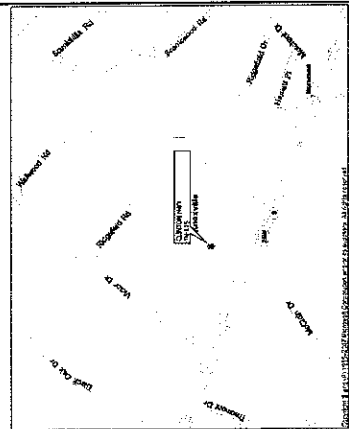
	Co-Location	Stealth Structure	Low Monopole Below 90'	Moderate Monopole 90'-150'	Tall Monopole 150'-199'	Lattice Tower	Guyed Tower
<b>Avoidance Areas</b>							
Conservation Open Space							
Scenic Highway							
Public Park							
Ridge Top/Ridge Line							
Scenic Vista							
Historic District/Site							
Single-family Residential							
Vacant Residential Lot							

Encouraged	Neutral	Neutral	Neutral	Neutral	Neutral	Neutral	Discouraged

**LOCATION MAP**



**VICINITY MAP**



**DRIVE DIRECTIONS**

FROM KNOXVILLE, TAKE I-75 NORTH TOWARD LEXINGTON. TAKE EXIT 9 (CLINTON HWY) TOWARDS CLINTON HWY. CHANGES LANES TO US-294 NORTH. PROCEED ON US-294 NORTH / CLINTON HWY FOR 1.4 MILES. SITE WILL BE ON THE RIGHT BEHIND COYOTE JOES.

# SITE NAME: CLINTON HWY

SITE NUMBER:  
**TN-115**

PROPOSED 180' MONOPOLE  
RAWLAND SITE

PREPARED FOR:



# WIRELESS PROPERTIES

PREPARED BY:



30 MANGELL CT  
SUITE 103  
ROSWELL, GA 30076  
616-280-2325

**PROJECT INFORMATION**

SITE ADDRESS: 5634 CLINTON HWY  
KNOXVILLE, TN 37912

PARCEL ID: 68-N GROUP 'B'

LATITUDE: N 36° 00' 23.21"

LONGITUDE: W 85° 54' 04.48"

ELEVATION: 1085' AMSL

ZONING CLASS: C-4

JURISDICTION: CITY OF KNOXVILLE

PROPERTY OWNER: LANDMARK TENN LIMITED PARTNERSHIP  
495 N STATE OF FRANKLIN ROAD  
JANESON CITY, TN 37912-3455

APPLICANT: WIRELESS PROPERTIES II, LLC  
107 BERKLEY CENTRE  
433 CHESTNUT STREET  
CARTERSVILLE, TN 37450  
MATT BATES  
423-802-1101

ENGINEER: PM&A, LLC  
30 MANGELL COURT, SUITE 103  
ROSWELL, GA 30076  
PATRICK W MARSHALL, P.E.  
616-280-2325

POWER: KNOXVILLE UTILITY BOARD  
CONTACT: GRAYLON GIBSON, 865-586-2365

TELCO: AT&T  
CONTACT: 866-620-6000

**DRAWING INDEX**

- T-1 TITLE SHEET & PROJECT INFORMATION
- C-1 GENERAL NOTES
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- C-5 GRADING & EROSION CONTROL DETAILS
- C-6 GRADING & EROSION CONTROL SPECIFICATIONS
- C-7 FENCE DETAILS
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- E-1 ELECTRICAL NOTES & ONE-LINE DIAGRAM
- E-2 ELECTRICAL SITE PLAN
- E-3 GROUNDING SITE PLAN
- E-4 GROUNDING DETAILS
- E-5 GROUNDING RISER DIAGRAM
- E-6 UTILITY FRAME DETAILS



CALL BEFORE YOU DIG  
TENNESSEE ONE-CALL  
1-800-351-1111  
www.tnonecall.com

SHEET TITLE:

**TITLE SHEET &  
PROJECT  
INFORMATION**

SHEET  
**T-1**



PREPARED FOR:



WIRELESS PROPERTIES



39 MANSELL CT. SUITE 103  
ROSELAND, TN 37088  
615-282-2125

SITE NUMBER:

TN-115

SITE NAME:

CLINTON HWY

SITE ADDRESS:

5824 CLINTON HWY  
KNOXVILLE, TN 37912

ENGINEER SEAL:



THIS IS A WORK COPY OF ANY AND ALL PERMITS  
IF YOU ALTER THIS DOCUMENT UNLESS AS DIRECTED BY  
A LICENSED PROFESSIONAL ENGINEER

DESIGN: 504  
DRAWN: C7M  
CHECKED: PMM

PERMITS PROJECT #:

MPC04

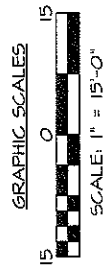
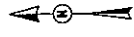
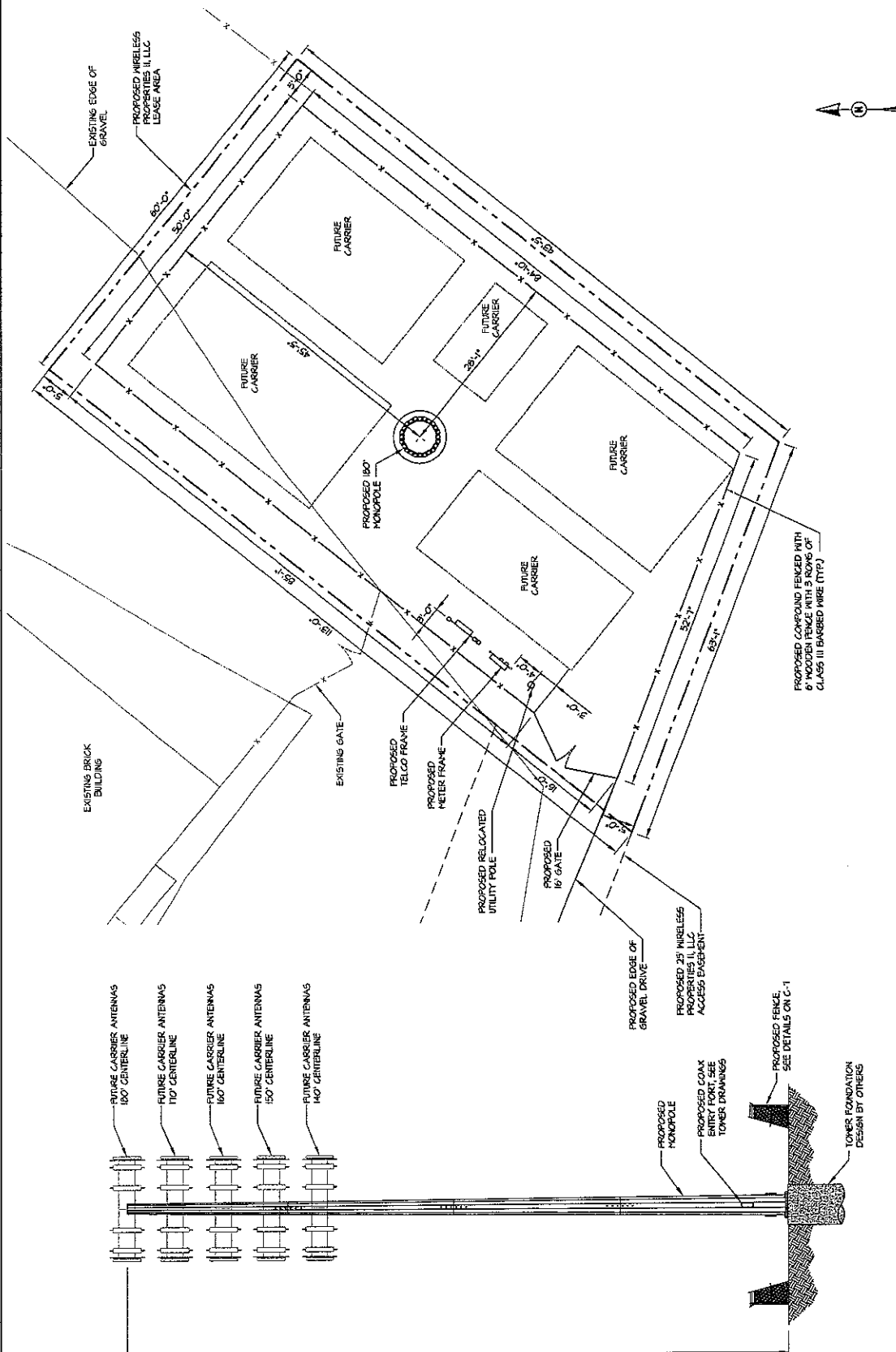
REVISION

NO. DATE DESCRIPTION

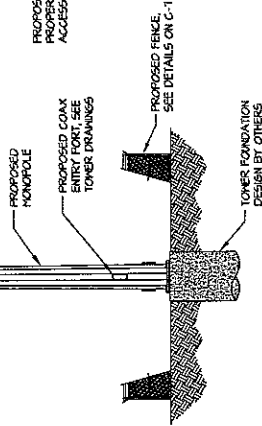
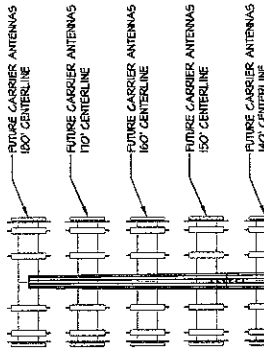
A. 02/20/09 ISSUED FOR REVIEW

SHEET TITLE:

DETAILED SITE  
PLAN AND TOWER  
ELEVATION



DETAILED SITE PLAN  
SCALE: 1" = 15'



TOWER ELEVATION  
NTS

PREPARED FOR:



WIRELESS PROPERTIES

47:



30 MANSELL CT, SUITE 103  
ROSELLE, GA 30076  
770-434-9212

SITE NUMBER:

TN-115

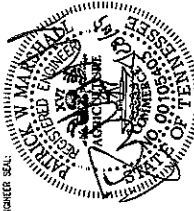
SITE NAME:

CLINTON HWY

SITE ADDRESS:

5654 CLINTON HWY  
KNOXVILLE, TN 37912

ENGINEER SEAL:



IT IS A VIOLATION OF LAW FOR ANY PERSON TO  
REPRODUCE OR TRANSMIT THIS DOCUMENT WITHOUT THE WRITTEN  
CONSENT OF THE PROFESSIONAL ENGINEER

DESIGN: GPM  
DRAWN: GPM  
CHECKED: PPM

PM&A PROJECT #: MPO04

REVISION

REV. DATE DESCRIPTION

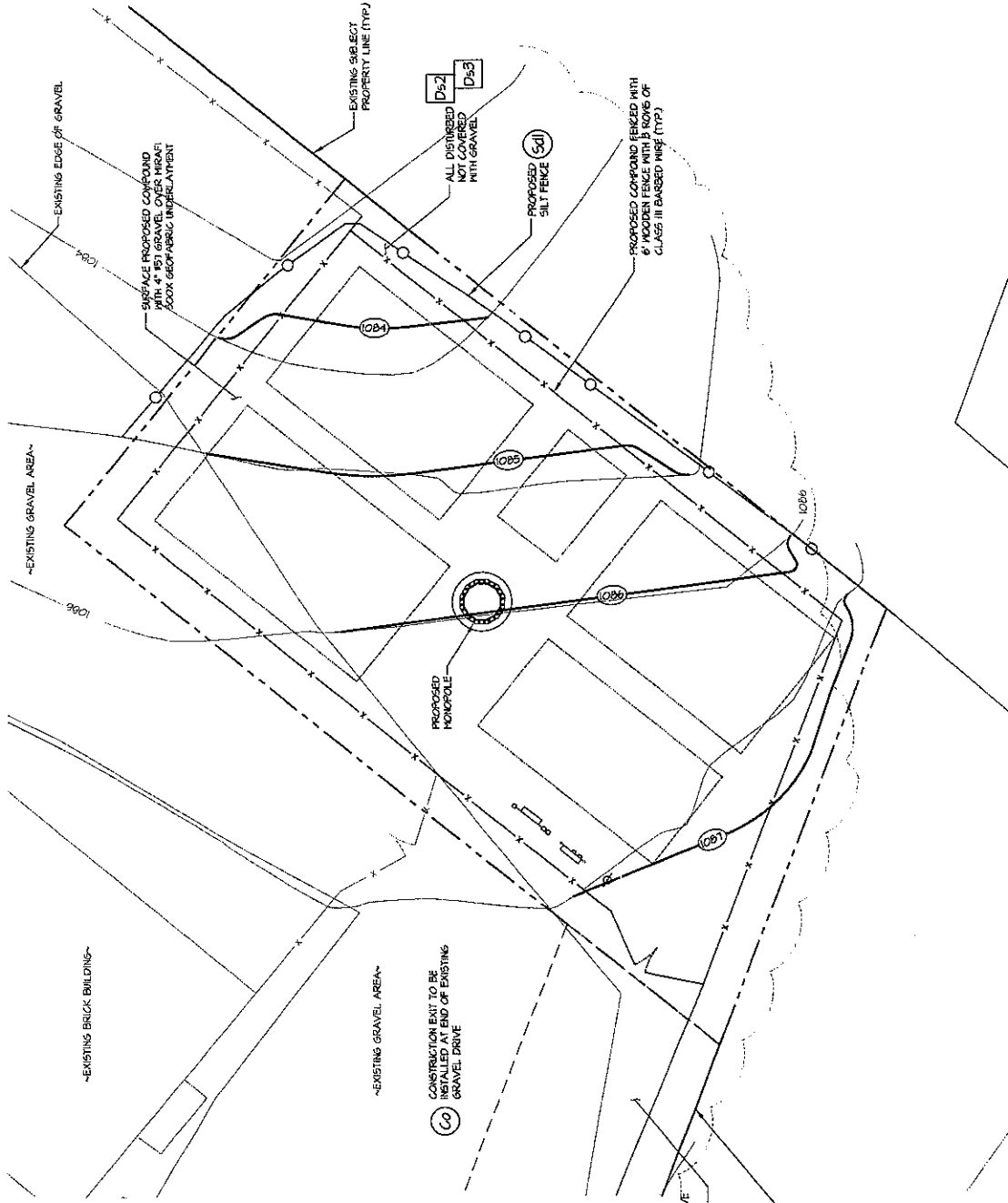
A. 07/20/09 ISSUED FOR REVIEW

SHEET TITLE:

GRADING AND  
EROSION CONTROL  
PLAN

SHEET #:

C-4

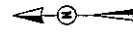


GRADING & EROSION CONTROL PLAN  
SCALE: 1" = 15'-0"

DISTURBED AREAS LEFT IDLE SHALL BE STABILIZED WITH TEMPORARY VEGETATION AFTER 15 DAYS. AFTER ESTABLISHMENT TEMPORARY VEGETATION SHALL BE MAINTAINED UNTIL PERMANENT VEGETATION IS ESTABLISHED.  
MAINTENANCE STATEMENT  
EROSION CONTROL MEASURES SHALL BE INSPECTED BY THE GENERAL CONTRACTOR AND REPAIRED BY THE GENERAL CONTRACTOR.  
ADDITIONAL EROSION CONTROL MEASURES WILL BE INSTALLED IF DEEMED NECESSARY BY ON-SITE INSPECTION.  
STATE AND FEDERAL 1/2" RAINFALL LOSSES TO BE KEPT ON SITE AND A COPY TO BE SUBMITTED TO THE CITY IN REPORT FORM.

- (Co) CONSTRUCTION EXIT - TO REMOVE OR ELIMINATE THE TRANSPORT OF MUD FROM THE CONSTRUCTION AREA ONTO PUBLIC RIGHT-OF-WAYS, STREETS, ALLEYS, SIDEWALKS, OR PARKING AREAS.
- (Sd) TYPE C SEDIMENT BARRIERS - TO PREVENT ANY SEDIMENT CARRIED BY SHEET FLOW FROM LEAVING THE SITE AND ENTERING NATURAL DRAINAGE WAYS OR STORM DRAINAGE SYSTEMS.
- (D5-2) DISTURBED AREA STABILIZATION (TEMPORARY) - TO ESTABLISH A TEMPORARY VEGETATIVE COVER WITH FAST GROWING SEEDINGS ON DISTURBED AREAS.
- (D5-3) DISTURBED AREA STABILIZATION (PERMANENT) - TO ESTABLISH A PERMANENT VEGETATIVE COVER SUCH AS TREES, SHRUBS, VINES, GRASSES, 500, OR LEGUMES ON DISTURBED AREAS.
- (Dv) DISTURBED AREA DUST CONTROL - TO CONTROL THE SURFACE AND AIR MOVEMENT OF DUST ON CONSTRUCTION SITES, ROADWAYS, AND SIMILAR SITES.

SURFACE PROPOSED ACCESS DRIVE WITH 4" (15) GRAVEL COVER (MARI) 500X 660F ABRIC UNDERLAYMENT  
PROPOSED 36" WIRELESS PROPERTIES II, LLC ACCESS EASEMENT



GRAPHIC SCALES



SCALE: 1" = 15'-0"



WIRELESS PROPERTIES



20 MARSHALL CT. SUITE 100  
ROXBURY, MA 01515  
617-269-2125

SITE NUMBER:

TN-115

SITE NAME:

CLINTON HWY

SITE ADDRESS:

654 CLINTON HWY  
KNOXVILLE, TN 37912

ENGINEER SEAL:



THIS IS A VOUCHER OF THE JOB FOR ANY PERSON TO ALTER THIS DOCUMENT UNLESS AS DIRECTED BY A LICENSED PROFESSIONAL ENGINEER

DESIGN: BOM  
DRAWN: CTM  
CHECKED: PMH

PLAN PROJECT #: MPO04

REVISION

REV. DATE DESCRIPTION

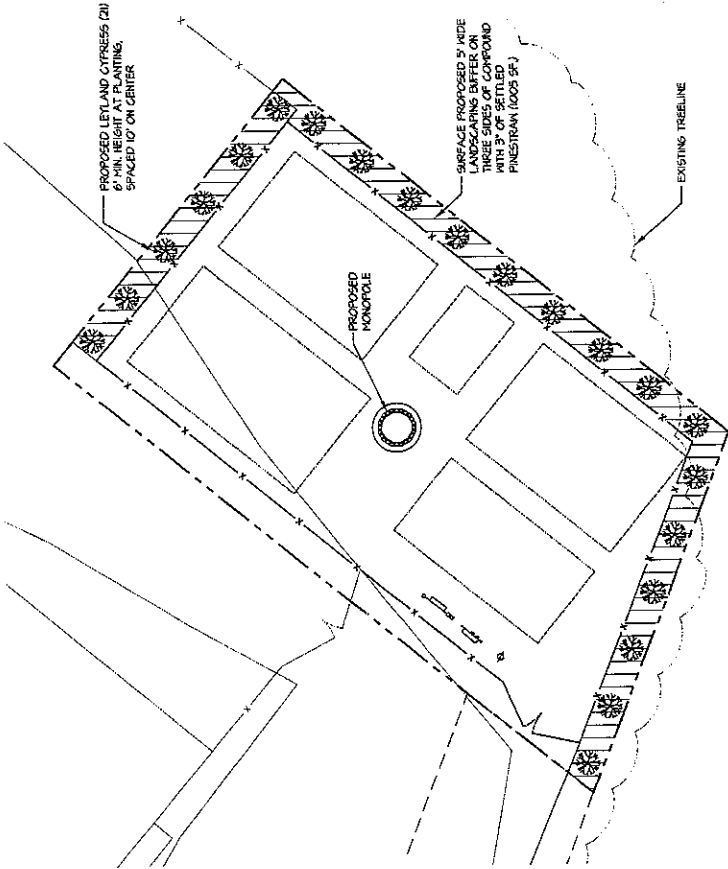
A CORRECTED ISSUED FOR REVIEW

SHEET TITLE

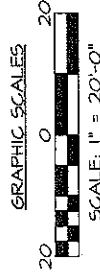
LANDSCAPE PLAN

SHEET #  
**L-1**

ORIGINAL



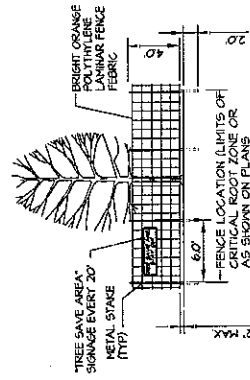
LANDSCAPE PLAN  
SCALE: 1" = 20'-0"



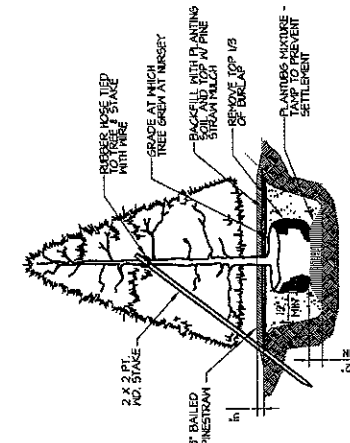
1. ALL PLANTS MUST BE HEALTHY, VIGOROUS MATERIAL, FREE OF PESTS AND DISEASE.
2. ALL PLANTS MUST BE CONTAINER-GROWN OR BALLED AND BURLAPPED AS SPECIFIED.
3. ALL TREES MUST BE STRAIGHT TRUNKED, FULL HEADED AND MEET ALL REQUIREMENTS SPECIFIED.
4. ALL PLANTS ARE SUBJECT TO THE APPROVAL OF THE ENGINEER'S REPRESENTATIVE BEFORE, DURING, AND AFTER INSTALLATION.
5. ALL TREES MUST BE GATED OR STAKED AS SHOWN.
6. ALL PLANTS AND PLANTING AREAS MUST BE COMPLETELY MULCHED AS SPECIFIED.
7. AFTER INSTALLATION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL IRREGULAR UTILITIES AND SHALL AVOID DAMAGE TO ALL UTILITIES DURING COURSE OF THE WORK.
8. THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING ALL DAMAGE TO UTILITIES, STRUCTURES, SITE APPURTENANCES, ETC. WHICH OCCURS AS A RESULT OF THE LANDSCAPE CONSTRUCTION.
9. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL QUANTITIES SHOWN ON THESE PLANS BEFORE BEGINNING THE WORK.
10. THE CONTRACTOR IS RESPONSIBLE FOR FULLY MAINTAINING ALL PLANTING INCLUDING, BUT NOT LIMITED TO, WATERING, SPRAYING, MULCHING, FERTILIZATION, ETC. OF PLANTING AREAS UNTIL THE WORK IS ACCEPTED IN TOTAL BY THE ENGINEER'S REPRESENTATIVE.
11. THE CONTRACTOR SHALL COMPLETELY GUARANTEE ALL PLANT MATERIAL FOR A PERIOD OF ONE (1) YEAR BEGINNING AT THE DATE OF TOTAL ACCEPTANCE. THE CONTRACTOR SHALL PROMPTLY MAKE ALL REPLACEMENTS BEFORE OR AT THE END OF THE GUARANTEE PERIOD.
12. THE ENGINEER'S REPRESENTATIVE WILL APPROVE THE STAKED LOCATION OF ALL PLANT MATERIAL PRIOR TO INSTALLATION.
13. AFTER BEING DUG AT THE NURSERY SOURCE, ALL TREES IN LEAF SHALL BE ACCLIMATED FOR TWO (2) WEEKS UNDER A MIST SYSTEM PRIOR TO INSTALLATION.
14. ANY PLANT MATERIAL THAT DIES, TURNS BROWN OR DEFLORATES (PRIOR TO TOTAL ACCEPTANCE OF THE WORK) SHALL BE REPLACED WITH MATERIAL OF THE SAME SPECIES, QUANTITY, SIZE AND MEETING ALL SPECIFICATIONS.
15. STANDARDS SET FORTH IN "AMERICAN STANDARD FOR NURSERY STOCK", LATEST EDITION, REPRESENT GUIDELINE SPECIFICATIONS ONLY, AND SHALL CONSTITUTE MINIMUM QUALITY REQUIREMENTS FOR PLANT MATERIAL.

PLANT LIST	COMMON NAME	BOTANICAL NAME	SIZE/REMARKS
21	LEYLAND CYPRRESS	CUPRESSOCYPRIS LEYLANDII	6' MIN. HEIGHT AT PLANTING

1005 SF PINESTREAM MULCH - 3" SETTLED LAYER OF CLEAN STREAM



- NOTES:
- 1) ALL PARKING WILL OCCUR ON EXISTING DRIVE.
  - 2) THERE WILL BE NO BRUNING OR BURNAL OF DEBRIS ON SITE.
  - 3) ALL BUFFERS AND TREE SAVE AREAS ARE TO BE CLEARLY IDENTIFIED WITH FLAGGING AND/OR FENCING PRIOR TO COMMENCEMENT OF ANY LAND DISTURBANCE.
- TREE PROTECTION DETAIL  
NOT TO SCALE



TREE PLANTING DETAIL  
NOT TO SCALE



WIRELESS PROPERTIES®

May 27, 2009

Mr Tom Brechko  
Subdivision and Development Plan Review  
Knoxville/Knox County Metropolitan Planning Commission  
Suite 403, City/County Building  
400 Main Street  
Knoxville, Tennessee 37902

Re: Wireless Properties II, LLC  
Introduction: TN 115 Knoxville Clinton Hwy/Merchants Dr.  
Proposed 180' Monopole communications tower

Dear Mr Brechko:

Please find the following documents regarding our building permit application for a telecommunications tower to be located at 5634 Clinton Hwy, which complies with Regulations stated in Article 5, Section 20 of the Knoxville Zoning Ordinance.

Your assistance in the facilitation of this matter is appreciated. Should you require additional information, please call.

Best Regards,

G. Larry Wells  
President

GLW/jrl





## WIRELESS PROPERTIES®

May 27, 2009

Mr. Tom Brechko  
Subdivision and Development Plan Review  
Knoxville/Knox County Metropolitan Planning Commission  
Suite 403, City/County Building  
400 Main Street  
Knoxville, Tennessee 37902

Re: Wireless Properties II, LLC  
Introduction: TN 115 Knoxville Clinton Hwy/Merchants Dr.  
Proposed 180' Monopole communications tower

Dear Mr. Brechko:

There is a strong need to enhance and upgrade wireless services at the proposed tower location along Clinton Hwy and Merchants Dr. Wireless Properties has multiple wireless carriers needing to co-locate on the proposed tower. Clinton Highway and Merchants Dr. have average annual daily traffic counts of 16,000 and 6,800 respectively. This high volume of traffic provides the need for an additional site in this location.

Wireless Properties is proposing a five (5) broadband tenant tower. This will provide the ability for multiple tenants to collocate at the same location. Therefore, creating less of a need for towers in the immediate surrounding area that the tower will provide coverage to.

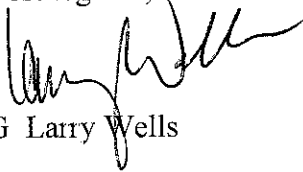
The proposed tower will be a 180' Monopole. The tower will be built structurally to hold nine (9) antennas at each level. The demand for wireless services is growing every day. With current demand and newer generations of technology on their way, there is an increased need for additional antennas at tower and rooftop locations. The need for additional antennas is due to the recent FCC spectrum auctions, future wireless technology upgrades (4G, LTE, WiMax) and new entrants into the Knoxville wireless market place. This need affects both the new wireless service companies and the incumbent wireless providers for the Knoxville metropolitan area.

Mr. Tom Brechko  
May 27, 2009

This tower site cannot be modified to a stealth tower location and still meet the needs and demands of the wireless service providers due to the fact that wireless carriers are having to provide advanced wireless services to the area to meet the demands of present and future consumers. A stealth tower location will take away from the structural ability to hold more than three antennas per level. This would create the need for multiple towers to meet demand as opposed to a single traditional monopole tower.

Currently there are six (6) licensed providers of broadband cellular services in the Knoxville metropolitan area. Some four (4) new wireless providers (cellular and 700 MHz) bought spectrum in the recent FCC auctions in addition to the Sprint-Clearwire WiMAX wireless services which should be built in the Knoxville area soon. It is in the public's best interest, need and necessity to build multi-tenant towers thus lowering the need for many more towers to serve the existing and upcoming wireless providers in Knoxville.

Best regards,



G. Larry Wells

President and Chief Manager

GLW/jrl



WIRELESS PROPERTIES®

May 27, 2009

Mr Tom Brechko  
Subdivision and Development Plan Review  
Knoxville/Knox County Metropolitan Planning Commission  
Suite 403, City/County Building  
400 Main Street  
Knoxville, Tennessee 37902

Re: Wireless Properties II, LLC  
Existing Unavailability: TN 115 Knoxville Clinton Hwy/Merchants Dr.  
Proposed 180' Monopole communications tower

Dear Mr. Brechko:

We have not found any suitable existing structures that will serve the public need, safety and necessity for wireless carriers in the Clinton Hwy/Merchants Drive area. There are not any structurally adequate communication towers in the immediate vicinity, thus prompting the need for our proposed tower. Our proposed tower will accommodate up to five wireless carriers. Please see the attached letters from Sprint and Leap Communications (Cricket) indicating their intent to locate on our proposed tower. The proposed location is zoned "C-4".

We have placed this site in an area that should be the least obtrusive of all of the potential sites we reviewed, but will still efficiently meet the needs of several wireless carriers and the public.

Wireless Properties respectfully requests a permit for a telecommunications tower. Our proposed 180' Monopole is engineered to provide service for up to five (5) wireless broadband carriers. The effective radiated power of each user on the tower is approximately one hundred (100) watts.

Please call me if additional information is required

Best Regards,

G. Larry Wells  
President

GLW/jrl



WIRELESS PROPERTIES®

May 27, 2009

Mr. Tom Brechko  
Subdivision and Development Plan Review  
Knoxville/Knox County Metropolitan Planning Commission  
Suite 403, City/County Building  
400 Main Street  
Knoxville, Tennessee 37902

Re: Wireless Properties II, LLC  
Letter of Intent: TN 115 Knoxville Clinton Hwy/Merchants Dr.  
Proposed 180' Monopole communications tower

Dear Mr. Brechko:

In compliance with City of Knoxville's Ordinances, we are submitting this Letter of Intent indicating Wireless Properties' commitment to allow and promote feasible shared use of our proposed telecommunications tower to be located at 5634 Clinton Hwy, Knoxville, TN. Our company is in the tower development and rental business and our intent is to lease space to all of the broadband and narrowband wireless providers in the Knoxville area

It is our specific intention to erect a 180' monopole structure that will accommodate up to five (5) wireless broadband carriers. Our towers are engineered and sites are built to hold multiple carriers thereby eliminating the number of towers needed in the City of Knoxville to provide adequate wireless services for citizens and visitors.

Please call me if additional information is required.

Best Regards,

G Larry Wells  
President

GLW/jrl



WIRELESS PROPERTIES®

May 27, 2009

Mr. Tom Brechko  
Subdivision and Development Plan Review  
Knoxville/Knox County Metropolitan Planning Commission  
Suite 403, City/County Building  
400 Main Street  
Knoxville, Tennessee 37902

Re: Wireless Properties II, LLC  
RF Explanation: TN 115 Knoxville Clinton Hwy/Merchants Dr  
Proposed 180' Monopole communications tower

Dear Mr Brechko:

The need behind this tower location is slightly different for the basic "coverage" location. This tower site is driven by multiple factors.

The purpose of the proposed tower is to Cell-split the existing sites located along Clinton Hwy and to provide additional coverage for the heavy cellular traffic in this area. The proposed tower would enhance indoor coverage for mobile phones and other cellular devices

Additionally, this site will enhance the capabilities of the spectrum allotted for this region.

Please pass along this explanation to Knoxville's engineering consultants to better assist them in their study of the area. Also, please call me if additional information is required.

Best Regards,

G. Larry Wells  
President

GLW/jrl

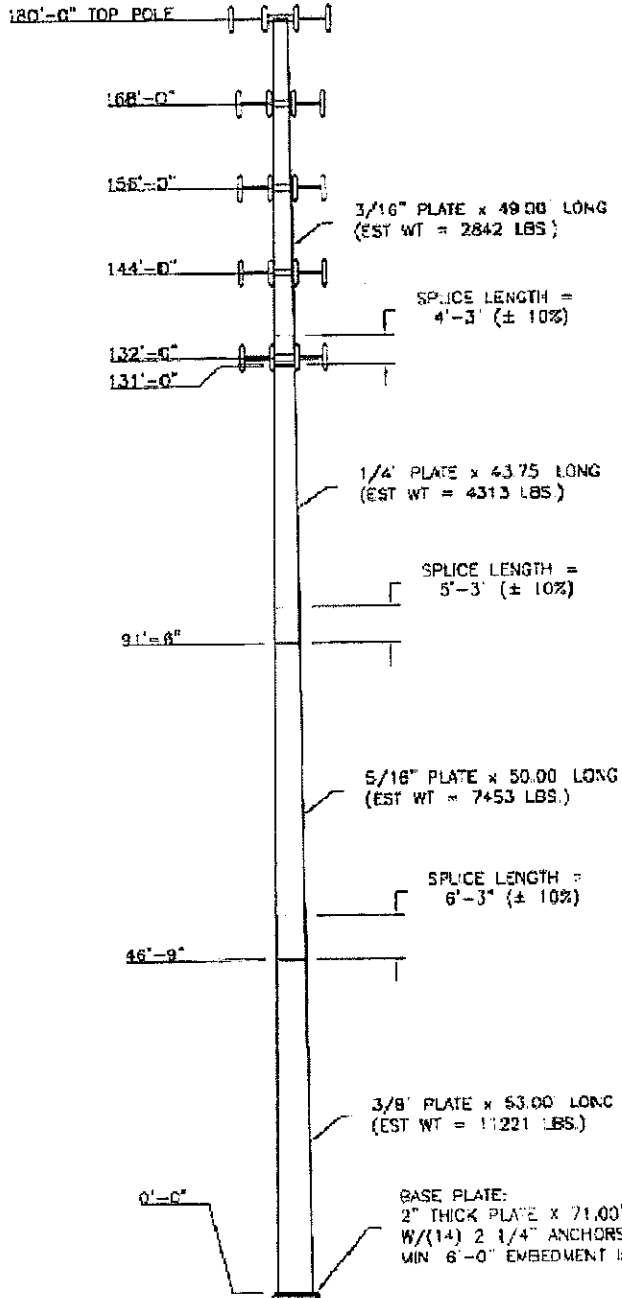
PO Box 86, Unionville Center, OH 43077  
 PH: 614-937-4922 / FX: 614-413-2887

**DaVinci Engineering Inc.**



**TransAmerican Power Products, Inc.**  
 2427 Kelly Lane  
 Houston, Texas 77069

PH: 281-444-8277 / FX: 281-444-7270



DESIGN CRITERIA PER ANSI/TIA-222-G 2005

STRUCTURE CLASS	EXPOSURE CATEGORY	TOPOGRAPHIC CATEGORY	CREST HEIGHT
I	C	1	

DESIGN SPECIFICATIONS:  
 DESIGNED ACCORDING TO: ANSI/TIA-222-G 2005  
 COMPLIES WITH: 2006 INTERNATIONAL BUILDING CODE  
 Wind Speed Load Cases: (According to the ANSI/TIA-222-G 2005)  
 LOAD CASE 1: 90 MPH DESIGN WIND SPEED  
 LOAD CASE 2: 30 MPH WIND SPEED - 3/4" RADIAL CE  
 LOAD CASE 3: 60 MPH OPERATIONAL WIND SPEED

Pole Steel Specifications:  
 POLE SHAFT SHAPE: 18-Sided Tapered Polygon  
 POLE SHAFT TAPER: 0.19583 inches/ft.  
 POLE SHAFT STEEL: ASTM A572 GR. 65 (Fy= 65 KSI)  
 BASE PLATE STEEL: ASTM A572 GR. 60 (Fy= 60 KSI)  
 ANCHOR RODS: 2 1/4" #18J ASTM A615 GR. 75 x 7'-0" LONG

Monopole Base Reactions: (Base Reactions for Foundation Design)

MOMENT:	4350 ft-kips
SHEAR:	35.0 kips
AXIAL:	57.0 kips

Pole Shaft Sections Dimensions:

Elevation (ft)	SECTION LENGTH (FT)	WALL THK (INCHES)	SPLICE LENGTH (FT)	TOP DIA.	BOT. DIA.
				(INCHES)	(INCHES)
180.00	49.00	0.1875	4.25	24.000	33.660
168.00	43.75	0.2500	5.25	32.453	41.080
156.00	50.00	0.3125	6.25	39.552	49.400
144.00	53.00	0.3750	0.00	47.551	57.750

ELEVATION	90 MPH WIND SPEED		60 MPH WIND SPEED	
	DEFLECTION	ROTATION	DEFLECTION	ROTATION
180'-0"	161.0"	7.9"	39.8"	1.9"

Appearance List:

Elev. (ft)	Equipment Description:
TOP	LIGHTNING ROD (OPTIONAL)
180.0	(9) 72" X 12" X 7" PANEL
180.0	14-FT LOW PROFILE PLATFORM
168.0	(9) 72" X 12" X 7" PANEL
168.0	12-FT LOW PROFILE PLATFORM
156.0	(9) 72" X 12" X 7" PANEL
156.0	12-FT LOW PROFILE PLATFORM
144.0	(9) 72" X 12" X 7" PANEL
144.0	12-FT LOW PROFILE PLATFORM
132.0	(9) 72" X 12" X 7" PANEL
132.0	12-FT LOW PROFILE PLATFORM



**POLE ELEVATION**

SCALE: NTS  
 NOTES: STEP BOLTS TO FULL HEIGHT  
 ANTENNA COAX INSIDE POLE SHAFT

©Copyright 2008 by DaVinci Engineering, Inc. All Rights Reserved  
 POLE: 180-FT MONOPOLE DATE: 5/1/09  
 OWNER: WIRELESS PROPERTIES  
 SITE NAME:  
 LOCATION:  
 CLIENT: TAPP DESIGN #: TP-8165  
 REV #:  
 REV. COMMENT: REV DATE:  
 DESIGNED BY: MFP CHECKED BY:  
 DAVINCI JOB#: 08235-1238 PAGE 1 OF 2



WIRELESS PROPERTIES

## Proposed Site Location

Wireless Properties plans to have facilities for lease at the location reference below. The following customer has an interest and intends to utilize the said tower location. This letter shall serve as a Letter of Intent to reserve the desired mounting height for the purpose of leasing these facilities upon completion of tower construction and the granting of appropriate permits.

### Customer Information

Name: Sprint Com, Inc.

Address: 6391 Sprint Parkway, Overland Park, KS 66251

Phone: 865-218-5908 Fax: \_\_\_\_\_

### Tower Information

Site Name: Clinton Hwy Latitude: N 36 - 00 - 22.42

Site Number: TN 115 Longitude: W 83 - 59 - 08.67

Tower Height/Type: 180' Monopole Elevation: 1094'

Parcel: 023.02 Tax Map #: 68 - N - Group B

### Equipment Information

Number of Antenna to be installed: 3

Antenna Type (s): \_\_\_\_\_

Est Height Requirements: 170'

Number of Transmitters: 3

Output Power in Watts: \_\_\_\_\_

Transmit Frequencies: 1930-1990mhz

Receive Frequencies: 1850-1910mhz

FCC Call Sign: \_\_\_\_\_

Type of System: Cellular \_\_\_\_\_ IPTV \_\_\_\_\_ Paging \_\_\_\_\_  
 PCS X Other \_\_\_\_\_

Customer covenants and agrees to indemnify and hold Wireless Properties, LLC and its agents, employees, officers, and directors harmless from and against any and all claims, losses, liability, and damages arising in any way from or incidental to the evaluation and/or pre-installation activities or use of the site. Except for its own intentional act and gross negligence, Wireless Properties, LLC shall not be liable to the Customer or any other person for any loss or damage, regardless of the cause. Customer further agrees that it shall not hold Wireless Properties, LLC liable for any governmental fines or other expenses related to pre-installation or preparation of site. This Letter of Intent is not valid if the appropriate permit is not received from the legislative body.

Customer Signature: Stacey B. Smith

Print Name: Stacey B. Smith

Title: RF Engineer III Date: 5/29/09

5/29/2009



WIRELESS PROPERTIES

### Proposed Site Location

Wireless Properties plans to have facilities for lease at the location reference below. The following customer has an interest and intends to utilize the said tower location. This letter shall serve as a Letter of Intent to reserve the desired mounting height for the purpose of leasing these facilities upon completion of tower construction and the granting of appropriate permits.

#### Customer Information

Name: Cricter Communications

Address: 2550 Meridian Blvd Suite 300 Franklin, TN 37067

Phone: 615-742-7642 Fax: \_\_\_\_\_

#### Tower Information

Site Name: Clinton Hwy Latitude: N 36 - 00 - 22 42

Site Number: TN 115 Longitude: W 83 - 59 - 08 67

Tower Height Type: 180' Monopole Elevation: 1094'

Parcel: 023.02 Tax Map #: 68 - N - Group B

#### Equipment Information

Number of Antenna to be installed: 3

Antenna Type (s): BBX065P18R-50

Est. Height Requirements: 180

Number of Transmitters: 3

Output Power in Watts: \_\_\_\_\_

Transmit Frequencies: 1985 - 1990 MHz

Receive Frequencies: 1905 - 1910 MHz

FCC Call Sign: KNLF466

Type of System: Cellular \_\_\_\_\_ LPTV \_\_\_\_\_ Paging \_\_\_\_\_  
 PCS X Other \_\_\_\_\_

Customer covenants and agrees to indemnify and hold Wireless Properties, LLC and its agents, employees, officers, and directors harmless from and against any and all claims, losses, liability, and damages arising in any way from or incidental to the evaluation and or pre-installation activities or use of the site. Except for its own intentional act and gross negligence, Wireless Properties, LLC shall not be liable to the Customer or any other person for any loss or damage, regardless of the cause. Customer further agrees that it shall not hold Wireless Properties, LLC liable for any governmental fines or other expenses related to pre-installation or preparation of site. This Letter of Intent is not valid if the appropriate permit is not received from the legislative body.

Customer Signature: Vickie Woods

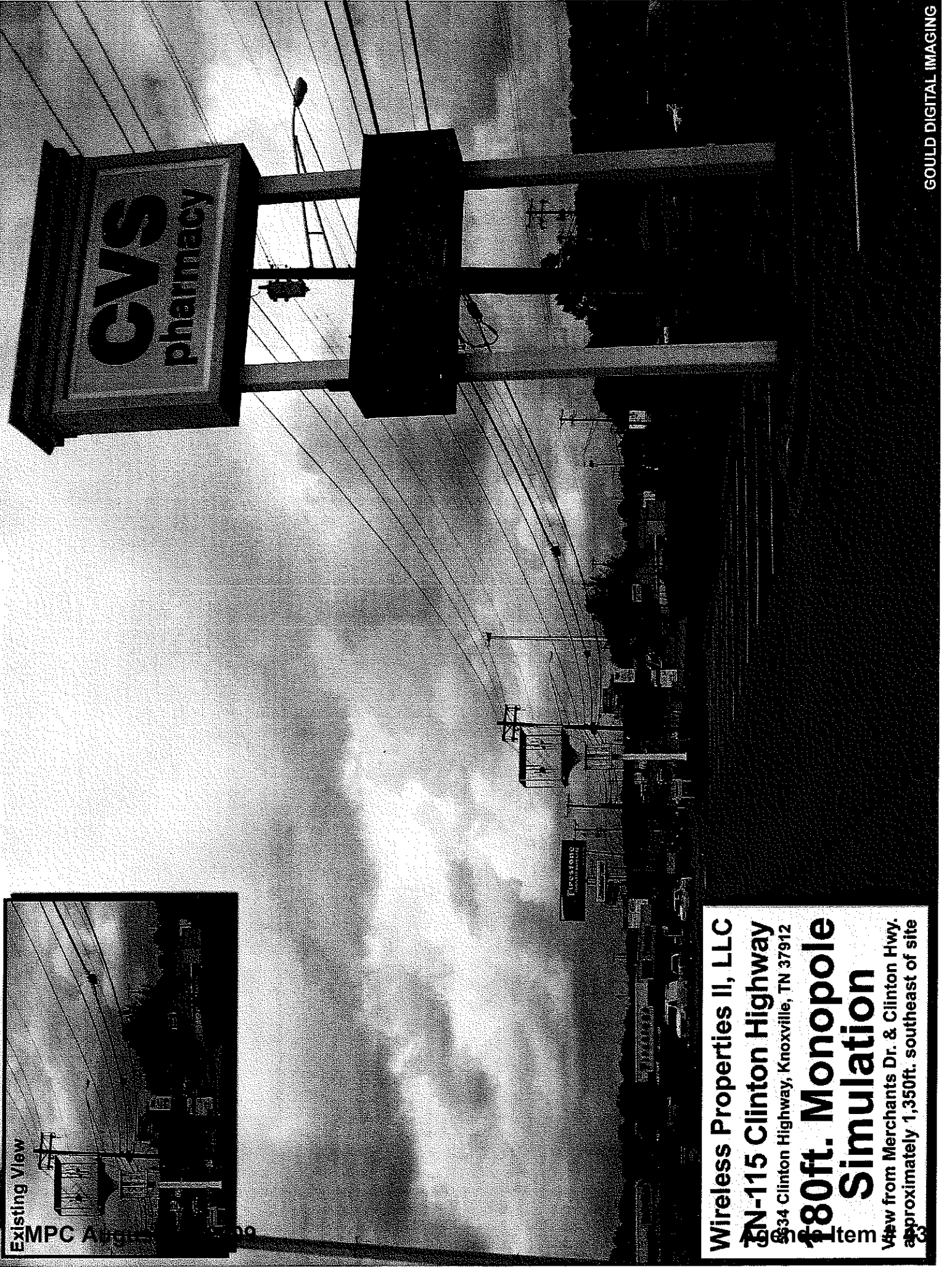
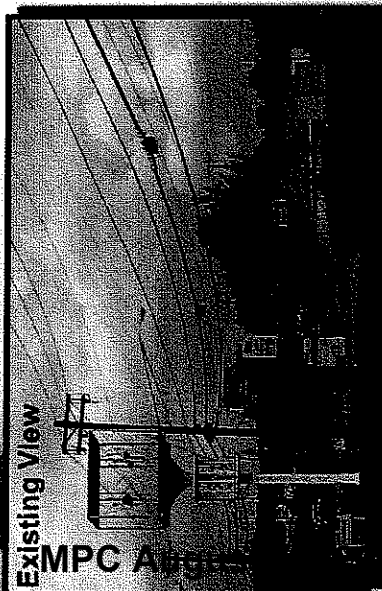
Print Name: Vickie Woods

Title: RF Engineer Date: 5/28/2009

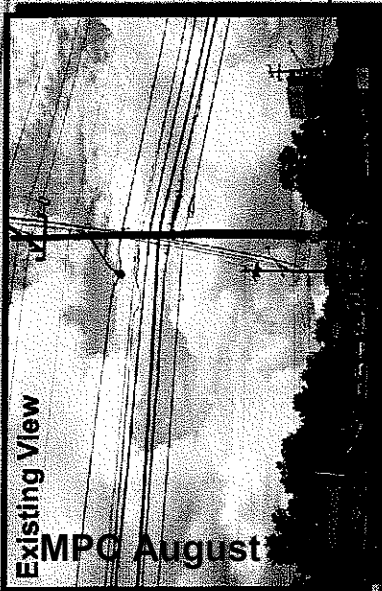
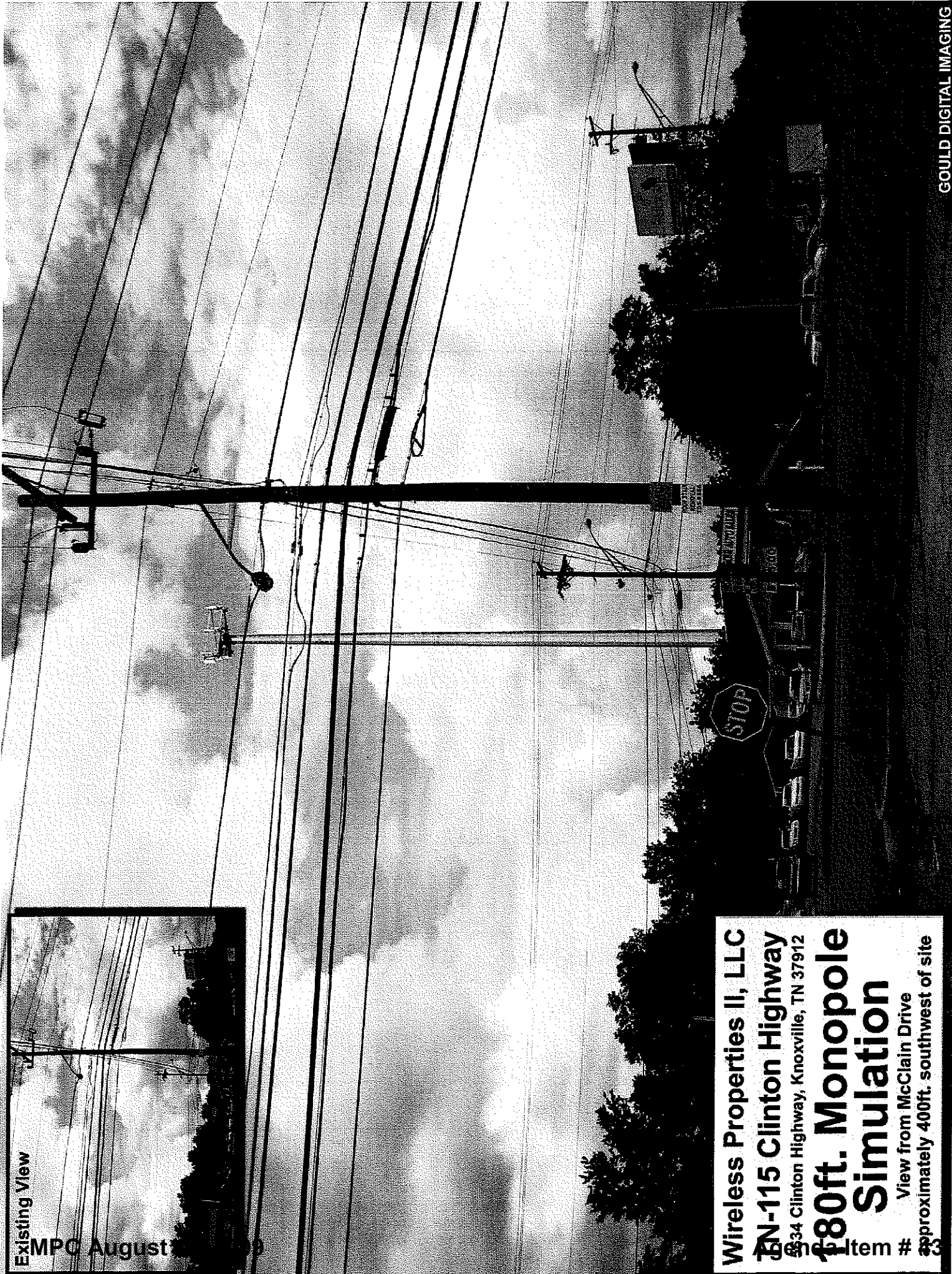
5/28/2009



Existing View



Wireless Properties II, LLC  
 15 N-115 Clinton Highway  
 534 Clinton Highway, Knoxville, TN 37912  
**180ft. Monopole  
 Simulation**  
 View from Merchants Dr. & Clinton Hwy.  
 approximately 1,350ft. southeast of site

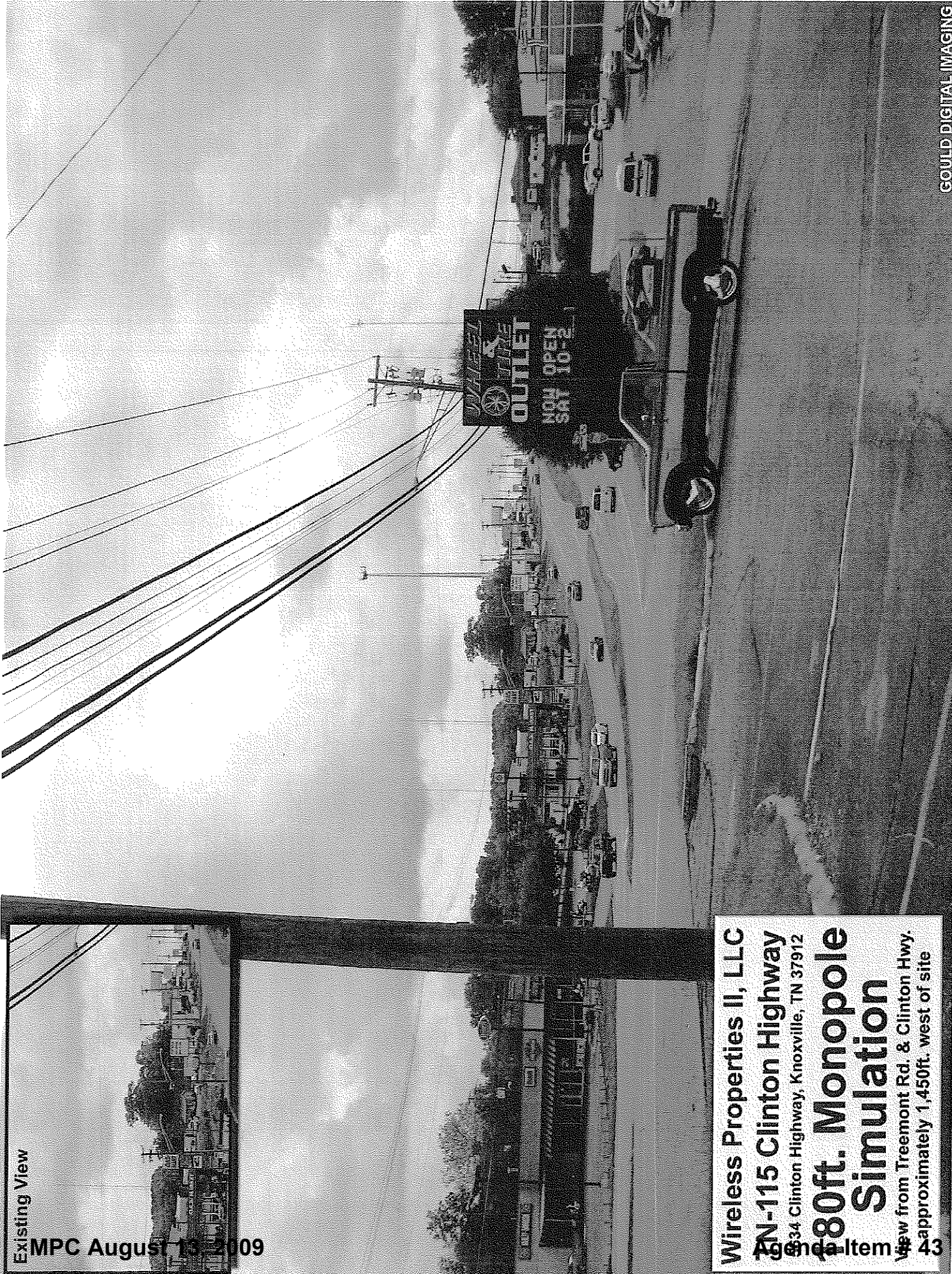


Existing View  
EMPC August 2009

Wireless Properties II, LLC  
TN-115 Clinton Highway  
334 Clinton Highway, Knoxville, TN 37912  
Item # 33  
**180ft. Monopole  
Simulation**  
View from McClain Drive  
approximately 400ft. southwest of site

Existing View

MPC August 13, 2009



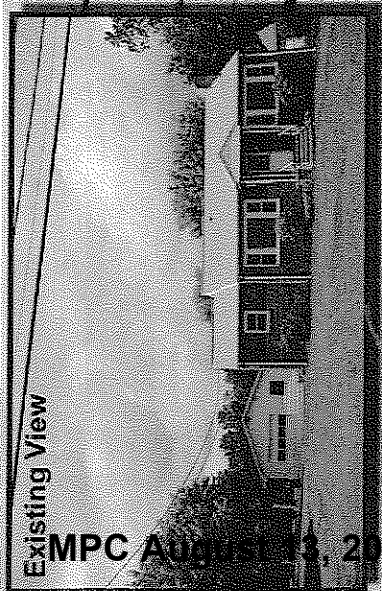
Wireless Properties II, LLC

334 Clinton Highway

Knoxville, TN 37912

180ft. Monopole  
Simulation

View from Treemont Rd. & Clinton Hwy.  
approximately 1,450ft. west of site



Existing View

MPC August 13, 2009

Wireless Properties II, LLC  
 180ft. Monopole  
 Simulation  
 View from Ridgefield Road  
 Approximately 675ft. northeast of site