



## ARLINGTON COUNTY, VIRGINIA

**County Board Agenda Item  
Meeting of April 16, 2011**

**DATE:** April 7, 2011

**SUBJECT:** U-3202-08-2 USE PERMIT AMENDMENT for New Cingular Wireless antennas and ground equipment on an existing telecommunications facility at 2305 S. Walter Reed Drive (RPC# 29-002-029).

**Applicant:**

New Cingular Wireless PCS, LLC/DBA AT&T Mobility

**By:**

Thomas Davy, Project Manager  
American Tower Corporation Site Development Services  
On behalf of New Cingular Wireless PCS, LLC/DBA AT&T Mobility  
3 W 13<sup>th</sup> Street  
Frederick, Maryland 21701

**C. M. RECOMMENDATION:**

Approve the use permit amendment request to locate antennas and additional ground equipment on an existing telecommunications facility at 2305 S. Walter Reed Drive, subject to all previous conditions and one (1) revised condition, with an administrative review in six (6) months (October 2011) in order to monitor the existing landscaping that is on the site.

**ISSUES:** This is a use permit amendment request by New Cingular to locate three (3) new antennas and ground equipment on an existing telecommunications facility and no issues have been identified.

**SUMMARY:** This is a request by New Cingular to locate a total of three (3) new antennas on an existing telecommunications facility at 2305 S. Walter Reed Drive behind the AAAA Self Storage building. They will be installed in addition to the existing antennas approved for New Cingular in October 2008. In addition, six (6) remote radio heads and one (1) surge suppressor will be installed on the existing monopole. The applicant also proposes to install two (2) equipment cabinets on the concrete pad within the existing fenced compound. The proposed antennas would be mounted at a height of 72 feet on the 75-foot pole. The proposal is consistent with the *Interim Guidelines for Placement of Telecommunications Facilities on County-Owned*

County Manager:

*BMD/GA*

Staff: Marco Antonio Rivero, DCPHD, Planning Division

PLA-5862

9.

*Property (Telecommunications Guidelines)*, which encourage collocation of antennas on existing structures.

The original use permit by New Cingular for the monopole, and subsequent amendments for the T Mobile and Clearwire antennas were scheduled for an administrative review in April 2011 and no further County Board review. Per Condition #4 of the use permit, landscaping is to be provided between the parking lot and the Four Mile Run Trail. Staff recently inspected the existing facility in preparation for the April 2011 administrative review and found that the landscaping is in fair condition. Staff will continue to monitor this site to make sure the landscaping is being maintained. Therefore, staff recommends approval of the use permit amendment request to locate antennas and additional ground equipment on an existing telecommunications facility at 2305 S. Walter Reed Drive, subject to all previous conditions and one (1) revised condition, and with an administrative review in six (6) months (October 2011) in order to monitor the existing landscaping that is on the site.

**BACKGROUND:** On October 18, 2008, the County Board approved a use permit for New Cingular to construct a new monopole at the site, and on January 23, 2010, the County Board approved a use permit amendment for T-Mobile to co-locate antennas on the pole. On November 13, 2010, the County Board granted Clearwire a use permit amendment for additional antennas and new ground equipment. The proposed antennas for New Cingular will be installed in addition to the existing antennas approved in October 2008.

The following provides additional information on the site:

Site: The site is improved with a storage facility (AAAA Self Storage).

To the north:	A service station.
To the south:	Existing industrial uses.
To the east:	West Village at Shirlington (across S. Four Mile Run Drive)
To the west:	The Four Mile Run Trail and Arlington Mill Drive.

Zoning: The site is zoned “M-1” Light Industrial Districts.

Land Use: The subject site is designated “Service Industry” (Wholesale, storage, and light manufacturing uses including those relating to building construction activity.) on the General Land Use Plan (GLUP).

Neighborhood: The site is located within the Nauck Civic Association boundary. The Nauck Civic Association has been contacted and, to date, has not provided a response on the proposed use permit amendment.

**DISCUSSION:** The applicant is proposing to install three (3) new antennas, mounted at a height of 72 feet on a 75-foot monopole, in addition to six (6) remote radio heads and one (1) surge suppressor that will be installed on the existing monopole. The applicant also proposes to install two (2) equipment cabinets on the concrete pad within the existing fenced compound.

The original use permit of New Cingular for the monopole, and the T Mobile and Clearwire antennas approved in subsequent use permit amendments, were scheduled for an administrative review in April 2011 and no further County Board review. Per Condition #4 of the use permit, landscaping is to be provided between the parking lot and the Four Mile Run Trail. Staff recently inspected the existing facility in preparation for the April 2011 administrative review and found that the landscaping is in fair condition but continued maintenance needs to occur. Staff will continue to monitor this site to make sure the applicant is maintaining the landscaping located at the base of the tower, between the fence and the Trail, and along the chain-link fence. Furthermore, the proposed antennas will match the appearance of the existing antennas on the monopole.

*The Interim Guidelines for Placement of Telecommunications Facilities on County-Owned Property (Telecommunications Guidelines)* were used to evaluate the application. The *Telecommunications Guidelines* offer direction in the way of design, visual impact, and compliance with Federal Communications Commission (FCC) regulations, among other things. The *Telecommunications Guidelines* can be applied to telecommunication facilities on privately owned as well as County-owned property. The *Telecommunications Guidelines* encourage the location of new antennas on existing structures, as opposed to constructing a new pole. The proposed antennas meet these criteria. In addition, the proposed new antennas will not exceed the height of the existing 75-foot pole.

**CONCLUSION:** Staff supports the additional antennas and ground equipment on the existing telecommunication facility. They will not impact the surrounding properties, and the proposal is in compliance with the County's *Telecommunications Guidelines*. The existing landscaping on the property is in fair condition, but needs continued maintenance. Therefore, staff recommends approval of the use permit amendment request to locate antennas and additional ground equipment on an existing telecommunications facility at 2305 S. Walter Reed Drive, subject to all previous conditions and one (1) revised condition, and with an administrative review in six (6) months (October 2011) in order to monitor the existing landscaping that is on the site.

Revised condition #1:

1. The applicant of the use permit approved on October 18, 2008, New Cingular Wireless, agrees that the monopole will be designed as a low-profile, slender monopole, as shown on plans dated October 3, 2008, and, the applicant of the use permit amendment, approved on January 23, 2010, T Mobile Northeast, LLC agrees that the nine (9) total antennas will be installed as shown on plans dated October 7, 2009 at a height of 52 feet. The applicant of the second use permit amendment, approved on November 13, 2010, Clearwire US LLC, agrees to construct antennas as shown on the plans dated February 3, 2010. The applicant of the third use permit amendment, approved on April 16, 2011, New Cingular Wireless PCS, LLC, agrees to construct antennas as shown on the plans dated August 30, 2010. Any additional antennas will require a use permit amendment.



January 23, 2010	Approved use permit amendment for T Mobile for new antennas on an existing telecommunications facility at 2305 S. Walter Reed Drive, subject to all previous conditions and two (2) revised conditions, and with a County Board review in three (3) months (April 2010), in order to track the amendment with the approved telecommunications facility use permit.
April 24, 2010	Renewed the use permit for a telecommunications facility, antennas and ground equipment at 2305 S. Walter Reed Drive, subject to all previous conditions and with an administrative review in one (1) year (April 2011) and no further County Board review.
July 10, 2010	Deferred the request for Clearwire antennas and ground equipment on an existing telecommunications facility at 2305 S. Walter Reed Drive to the September 25, 2010 County Board meeting.
September 25, 2010	Deferred the request for Clearwire antennas and ground equipment on an existing telecommunications facility at 2305 S. Walter Reed Drive to the October 23, 2010 County Board meeting.
October 23, 2010	Deferred the request for Clearwire antennas and ground equipment on an existing telecommunications facility at 2305 S. Walter Reed Drive to the November 13, 2010 County Board meeting.
November 13, 2010	Approved use permit amendment request to locate antennas on an existing telecommunications facility at 2305 S. Walter Reed Drive, subject to all previous conditions and two (2) revised conditions, and with an administrative review in five (5) months (April 2011), in order to track this amendment with the approved telecommunications facility use permit.

Approved conditions:

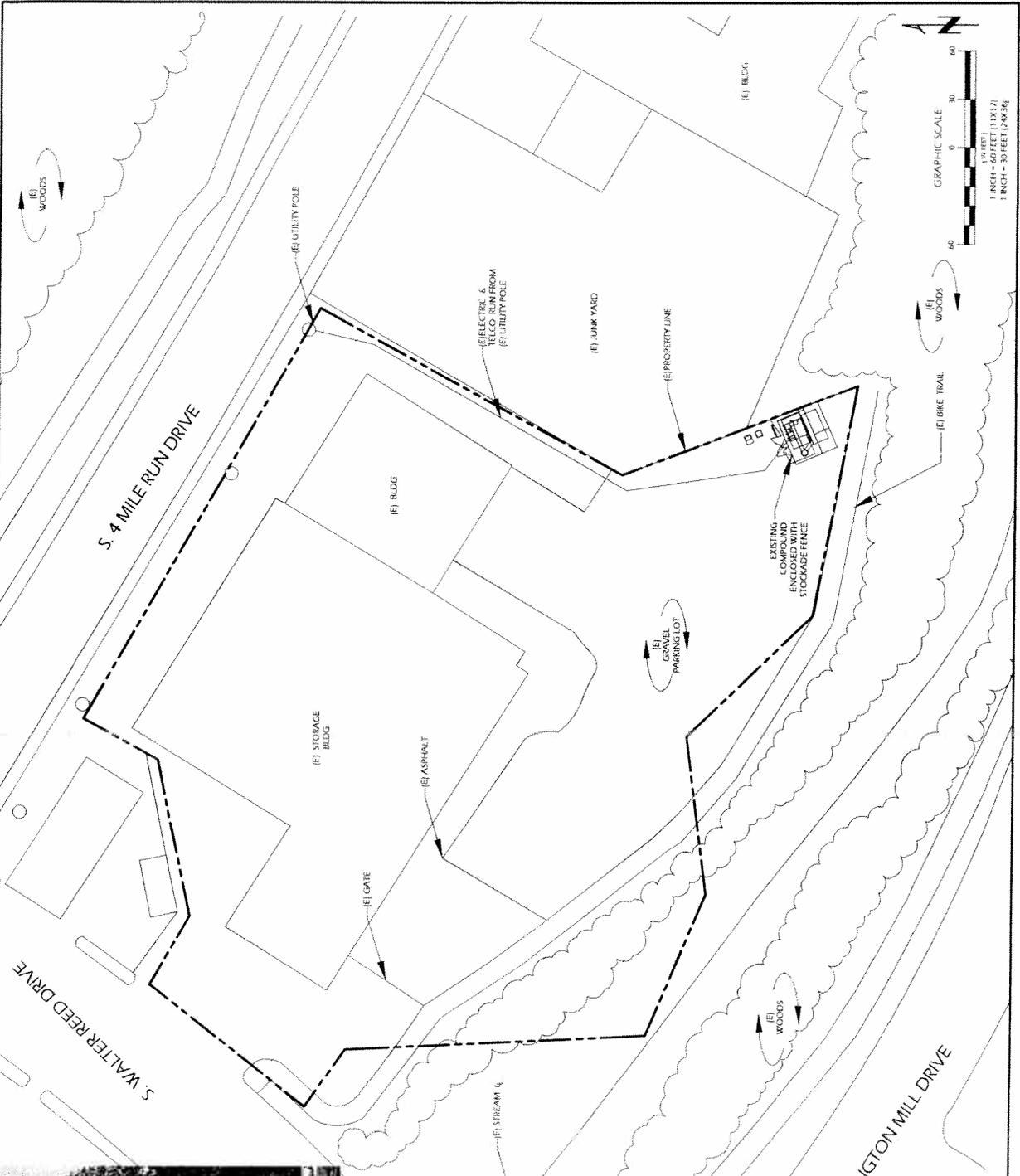
1. The applicant of the use permit approved on October 18, 2008, New Cingular Wireless, agrees that the monopole will be designed as a low-profile, slender monopole, as shown on plans dated October 3, 2008, and, the applicant of the use permit amendment, approved on January 23, 2010, T Mobile Northeast, LLC agrees that the nine (9) total antennas will be installed as shown on plans dated October 7, 2009 at a height of 52 feet. The applicant of the second use permit amendment, approved on November 13, 2010, Clearwire US LLC, agrees to construct antennas as shown on the plans dated February 3, 2010. Any additional antennas will require a use permit amendment.
2. The applicant agrees to limit the height of the monopole to no greater than seventy-five (75) feet.
3. The pole and any support structure shall be enclosed with a seven-foot (7') stockade wood fence. The applicant agrees to maintain the monopole structure, fencing, and surrounding landscaping in good condition.
4. The applicant agrees to provide landscaping between the parking lot and the Four Mile Run Trail. The landscaping will consist of a two-foot wide grass strip with evergreen shrubs, ornamental grasses and/or perennials along the existing chain-link fence bordering the parking lot. The applicant agrees to provide landscaping along the entire length of the existing chain-link fence, from the monopole to the small paved parking area at the western end of the site, as generally shown on plan titled "Location of Proposed Landscaping Buffer" dated October 2, 2008. Additionally, the applicant agrees to enhance landscaping in the way of a minimum of twenty (20) evergreen trees (minimum of 7-8' feet in height) between the proposed stockade fence and Four Mile Run Trail, as generally shown on plan titled "Location of Proposed Landscaping Buffer" dated October 2, 2008. The applicant agrees to provide shrubs as a landscape buffer around the exterior of the proposed stockade fence. The applicant agrees to submit a final landscape plan to be approved by the County Manager or his designee, as fulfilling this condition, prior to issuance of any permits. The applicant agrees to maintain all landscaping, at the base of the tower, between the fence and the trail, and along the chain-link fence, in good condition. The applicant of the use permit amendment, T Mobile Northeast, LLC, approved on January 23, 2010, LLC and Clearwire US LLC, approved on November 13, 2010, agrees that should any evergreen trees be impacted by the addition of ground equipment, that the evergreens will be replaced in another location, to be approved by the County Manager or designee, near the base of the tower, prior to installation of the new equipment.

5. The applicant agrees that all utilities will be underground and all coax cables from the equipment cabinets will be hidden as much as possible within the monopole or any support structure. No external or exposed wiring is allowed on the monopole except for that required to connect to the antennas.
6. The applicant agrees that the monopole will be constructed to accommodate an additional wireless user. The applicant agrees that if additional equipment area is needed at the base of the shelter to accommodate an additional wireless user, the applicant will work to accommodate them to the greatest extent possible. Any future wireless user that intends to locate on the proposed monopole will require a use permit amendment.
7. The applicant shall identify a community liaison who shall be available to address any concerns regarding the facility operation. The name and telephone number of the liaison shall be provided to the Nauck Civic Association, the Concord Mews Homeowners Association, and the Zoning Administrator.
8. The applicant agrees that the monopole shall be removed with ninety (90) days after any cessation of use for wireless telecommunications purposes.





OBLIQUE VIEW



NOTE:  
 ALL PLACEMENT DIMENSIONS, PROPERTY LINES,  
 AND RIGHT OF WAYS ARE APPROXIMATE BASED  
 UPON AVAILABLE RESOURCES. IN NO EVENT  
 SHALL THE ENGINEER BE HELD RESPONSIBLE FOR  
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		<small>THE INFORMATION CONTAINED ON THIS DRAWING IS THE PROPERTY OF AMERICAN TOWER STRUCTURAL ENGINEERING. IT IS TO BE USED ONLY FOR THE PROJECT AND SITE SPECIFICALLY IDENTIFIED HEREON. ANY REUSE OR MODIFICATION OF THIS DRAWING WITHOUT THE WRITTEN PERMISSION OF AMERICAN TOWER STRUCTURAL ENGINEERING IS STRICTLY PROHIBITED. THE USER OF THIS DRAWING SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES. THE USER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY INFORMATION FROM THE LANDS OF THE STATE OF VIRGINIA, INCLUDING BUT NOT LIMITED TO THE VIRGINIA LICENSE AND ANY APPLICABLE REGULATIONS.</small>	
		<b>AT&amp;T SITE NUMBER</b> <b>3787</b> <b>AT&amp;T SITE NAME</b> <b>WIRELESS</b> <b>AT&amp;T SITE NUMBER</b> <b>273172</b> <b>SITE ADDRESS</b> <b>7805 S. WALTER REED DR</b> <b>ARLINGTON VA 22206</b>	
<small>DATE PLOTTED</small> <small>DATE PRINTED</small> <small>DATE DRAWN</small> <small>DATE CHECKED</small>	<small>DATE</small> <small>DATE</small> <small>DATE</small> <small>DATE</small>	<b>SURVEY PLAN</b> <b>C-1</b>	
<small>PROJECT NUMBER</small> <b>0</b>		<small>PROJECT NAME</small> <b>0</b>	





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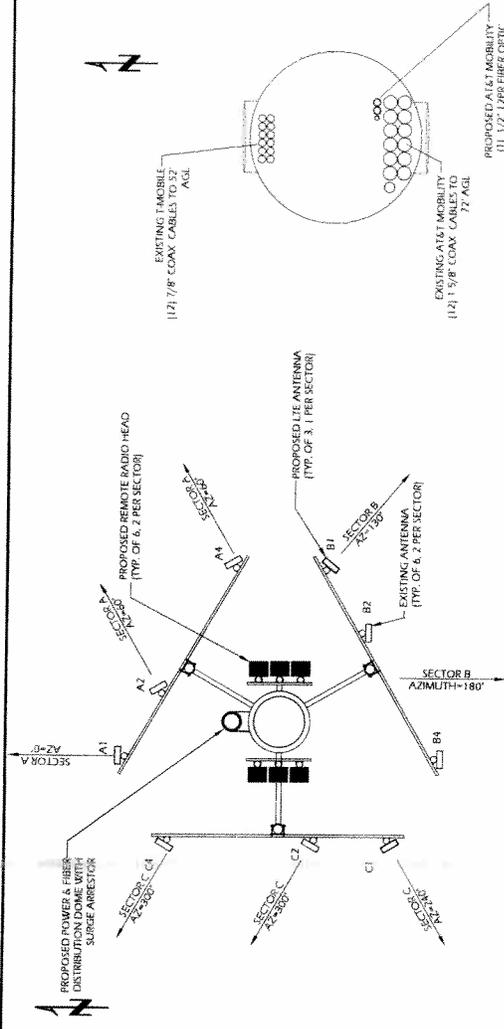
AT&T SITE NUMBER: 3787  
AT&T SITE NAME: WIRELESS  
AT&T SITE NUMBER: 273172  
SITE ADDRESS: 2805 S WALTER REED DR ARLINGTON, VA 22209

PROFESSIONAL ENGINEER'S SEAL  
I AM A LICENSED PROFESSIONAL ENGINEER IN THE STATE OF VIRGINIA. LICENSE NO. 15960. EXPIRES 12/31/2011.

COMPARISON SHEET  
DATE: 10/15/09  
BY: J. SWANSON  
CHECKED BY: J. SWANSON  
DATE: 10/15/09  
BY: J. SWANSON

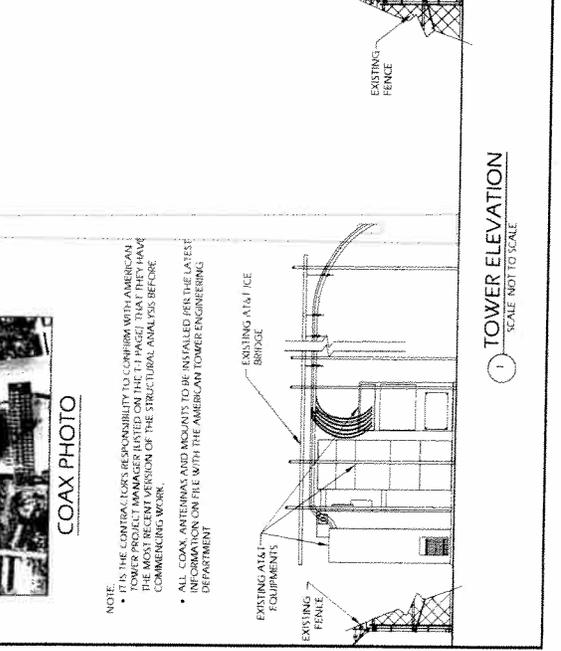
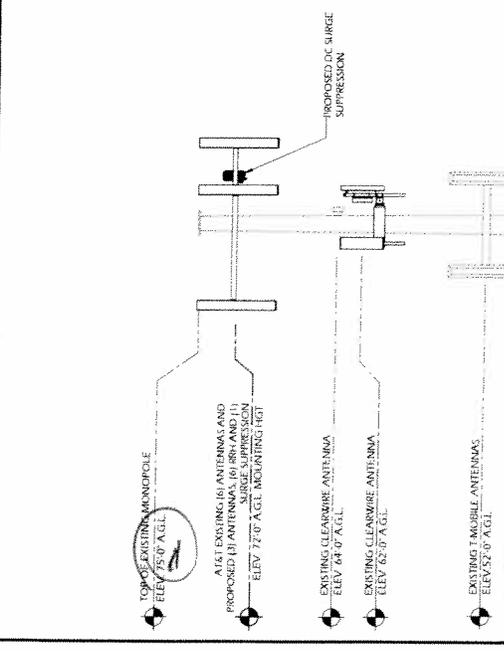
TOWER ELEVATION & COAX LAYOUT

SHEET NUMBER: A-3 REV: 4 0



FINAL ANTENNA AND COAXIAL CABLE SCHEDULE

ANTENNA MARK	SECTOR	TYPE	STATUS	ANTENNA	AZIMUTH (°-NORTH)	COAXIAL COLOR CODE	CABLE (PTH, SIZE, LENGTH)	MECHANICAL DOWN TILT	ELECTRICAL DOWN TILT	RADIATION CENTER	REMARKS
A1	A	LTE	PROPOSED	KATHREIN 80010765	0	-	1E (2) - 1.5/8"	0°	0°	72'-0"	(1) RRH TAWS (1) RRH 700MHz (2) POWERWAVE DIPLEXER LOP21401
A2	A	GSMA/UMTS	EXISTING	KATHREIN 80010122	60	-	1E (2) - 1.5/8"	0°	0°	72'-0"	EXISTING
A3	A	GSMA/UMTS	EXISTING	KATHREIN 80010122	60	-	1E (2) - 1.5/8"	0°	0°	72'-0"	EXISTING
A4	A	GSMA/UMTS	EXISTING	KATHREIN 80010122	60	-	1E (2) - 1.5/8"	0°	0°	72'-0"	EXISTING
B1	B	LTE	PROPOSED	KATHREIN 80010765	130	-	1E (2) - 1.5/8"	0°	0°	72'-0"	(1) RRH TAWS (1) RRH 700MHz (2) POWERWAVE DIPLEXER LOP21401
B2	B	GSMA/UMTS	EXISTING	KATHREIN 80010122	180	-	1E (2) - 1.5/8"	0°	0°	72'-0"	EXISTING
B3	B	GSMA/UMTS	EXISTING	KATHREIN 80010122	180	-	1E (2) - 1.5/8"	0°	0°	72'-0"	EXISTING
B4	B	GSMA/UMTS	EXISTING	KATHREIN 80010122	180	-	1E (2) - 1.5/8"	0°	0°	72'-0"	EXISTING
C1	C	LTE	PROPOSED	KATHREIN 80010765	240	-	1E (1) - 3/8"	0°	0°	72'-0"	(1) RRH TAWS (1) RRH 700MHz (2) POWERWAVE DIPLEXER LOP21401
C2	C	GSMA/UMTS	EXISTING	KATHREIN 80010122	300	-	1E (2) - 1.5/8"	0°	0°	72'-0"	EXISTING
C3	C	GSMA/UMTS	EXISTING	KATHREIN 80010122	300	-	1E (2) - 1.5/8"	0°	0°	72'-0"	EXISTING
C4	C	GSMA/UMTS	EXISTING	KATHREIN 80010122	300	-	1E (2) - 1.5/8"	0°	0°	72'-0"	EXISTING
RET CONTROL CABLE											
RACAP DCA-48-601-848F			PROPOSED								
(1) 2P8 1/2 CAT5 CABLE											
(2) 3P8 7/8 POWER CABLES											



NOTE: IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONSULT WITH AMERICAN TOWER PROJECT MANAGERS LISTED ON THE E.I. PAGE THAT THEY HAVE THE MOST RECENT VERSION OF THE STRUCTURAL ANALYSIS BEFORE COMMENCING WORK.

• ALL COAX ANTENNAS AND MOUNTS TO BE INSTALLED PER THE LATEST INFORMATION ON FILE WITH THE AMERICAN TOWER ENGINEERING DEPARTMENT



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**U-3202-08-2 USE PERMIT**  
**2305 S. Walter Reed Dr.**  
**(RPC #29-002-029)**

Note: These maps are for property location assistance only.  
 They may not represent the latest survey and other information.

