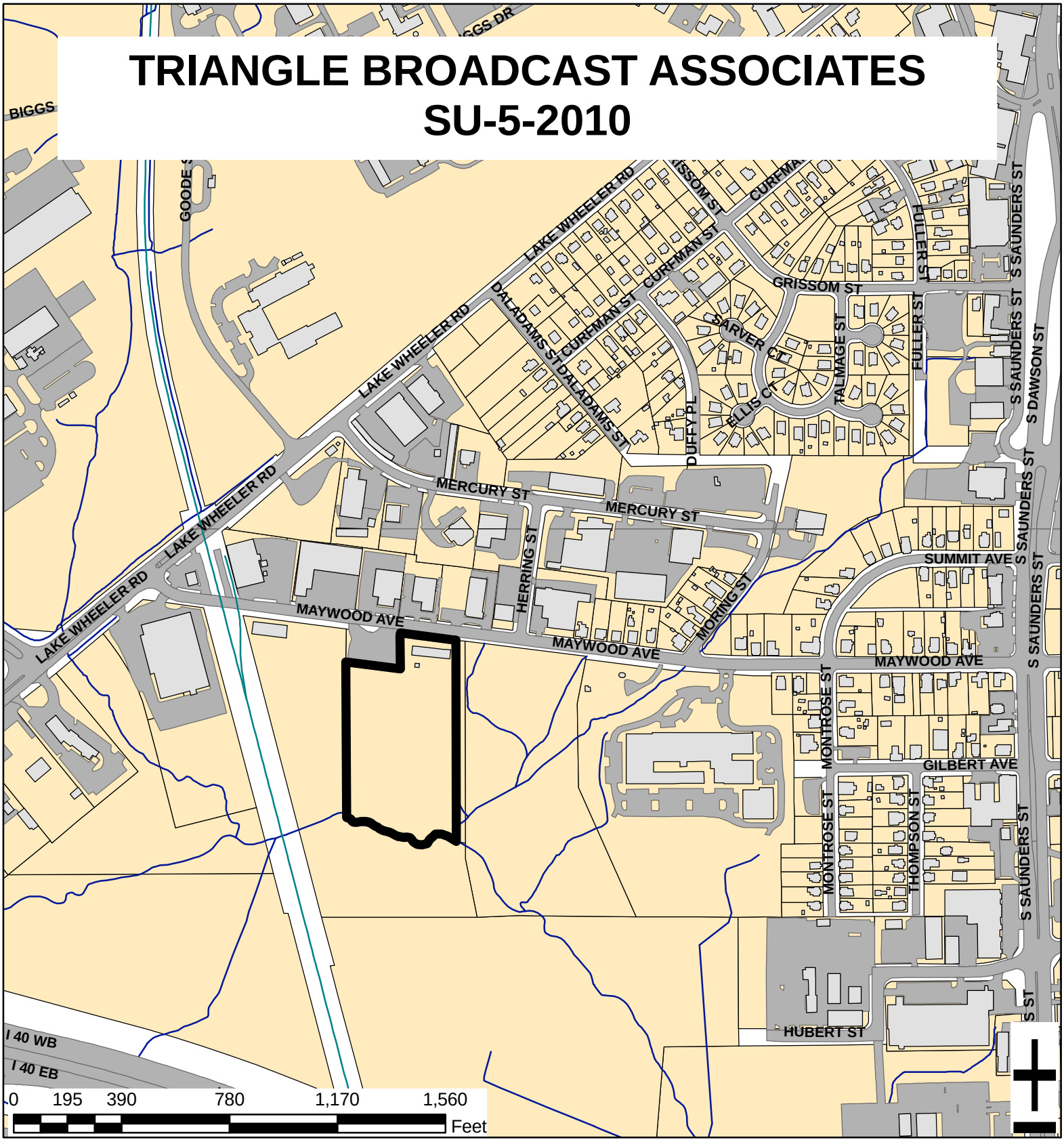
# TRIANGLE BROADCAST ASSOCIATES
# SU-5-2010

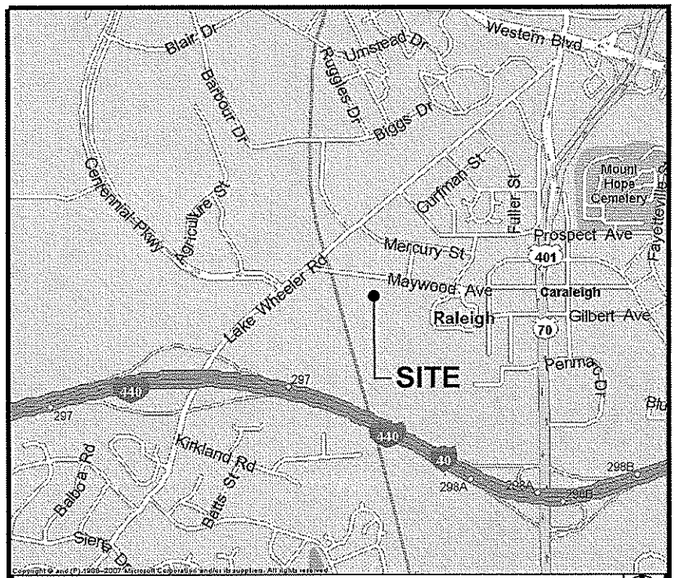



| | | | |
|---|---|---|---|
| Zoning: | **IND-2** | Proposed Use: | **280" Guyed Telecom. Tower** |
| CAC: | **Southwest** | Planner: | **Jacque Baker** |
| Drainage Basin: | **Walnut Creek** | Phone: | **(919) 516-2630** |
| Acreage: | **6.06** | Applicant Contact: | **Allen Sherrill** |
| | | Phone: | **(919) 882-3730** |

Directions From Curits Media Office:

TAKE HIGHWOODS BLVD. TOWARD CAPITAL BLVD. / US-1 / US-401S. TURN RIGHT ONTO CAPITAL BLVD. [US-1 / US-401] AND GO 3.6 MILES. CONTINUE ON N DAWSON ST. (US 70 E), GO 1.4 MILES. CONTINUE TO FOLLOW US 70 E, GO 0.3 MILE. TURN RIGHT ON MAYWOOD AVE. SITE IS ON THE RIGHT.

SITE DIRECTIONS




VICINITY MAP

# CURTIS MEDIA GROUP

**SITE NAME:** MAYWOOD AVE

**ADDRESS:** 649 MAYWOOD AVE
RALEIGH, NC 27603
WAKE COUNTY

**TOWER TYPE:** GUYED TOWER

**TOWER HEIGHT:** 280' AGL

**LATITUDE:** 35° 45' 37" N

**LONGITUDE:** 78° 39' 25" W

**EXISTING GROUND ELEVATION:** 244.5' AMSL

**PROPOSED GROUND ELEVATION:** 246.5' AMSL

**TAX MAP # (PIN):** 1703117788

**ZONING:** IND2

**ADJACENT ZONING DISTRICTS:** IND2, CUD R10

SITE DRAWINGS

| SHEET NUMBER | DESCRIPTION |
|---|---|
| T-1 | TITLE SHEET |
| - | APPENDIX B BUILDING CODE SUMMARY |
| - | SITE SURVEY (SHEET 1 OF 3) |
| - | SITE SURVEY (SHEET 2 OF 3) |
| - | SITE SURVEY (SHEET 3 OF 3) |
| T-2 | EXISTING SITE PLAN |
| T-3 | GENERAL NOTES |
| C-1 | OVERALL SITE LAYOUT 1 |
| C-2 | SITE PLAN |
| C-3 | GRADING & EROSION CONTROL PLAN |
| C-4 | CONSTRUCTION DETAILS |
| C-5 | FENCING DETAILS |
| C-6 | EROSION CONTROL DETAILS |
| E-1 | BASIC SERVICE ROUTING PLAN |
| E-2 | GROUNDING PLAN |
| E-3 | SINGLE LINE DIAGRAM |
| E-4 | ELECTRICAL DETAILS |
| E-5 | H-FRAME DETAILS |
| E-6 | ELECTRICAL DETAILS |

**CONSULTANT**
KIMLEY-HORN AND ASSOCIATES, INC.
3001 WESTON PARKWAY
CARY, NORTH CAROLINA 27513
PHONE: (919) 677-2098
ATTN: KENT VAN RIPER

**PROPERTY OWNER**
TRIANGLE BROADCAST ASSOC.
C/O CURTIS MEDIA
3012 HIGHWOODS BLVD, SUITE 201
RALEIGH, NC 27604
ATTN: ALLEN SHERRILL
PHONE: (919) 882-3730

**POWER COMPANY**
PROGRESS ENERGY
PHONE: (800) 452-2777
ATTN: CUSTOMER SERVICE

**TELEPHONE COMPANY**
BELLSOUTH
PHONE: (800) 620-6900
ATTN: CUSTOMER SERVICE

**PROJECT MANAGER**
CURTIS MEDIA
3012 HIGHWOODS BLVD, SUITE 201
RALEIGH, NC 27604
ATTN: ALLEN SHERRILL
PHONE: (919) 882-3730

**PERMITTING INFORMATION**
CITY OF RALEIGH
ONE EXCHANGE PLAZA, SUITE 404
RALEIGH, NC 27602
PHONE: (919) 516-2150
ATTN: PLANS REVIEWER

**CONSTRUCTION DRAWINGS**

**CURTIS MEDIA GROUP**
3012 HIGHWOODS BLVD.
RALEIGH, NC 27604
USA


CONSULTANT / CERTIFICATES:
Kimley-Horn and Associates, Inc.
NC License F-0102
Post Office Box 33068
Raleigh, North Carolina 27636


DRAWN BY: JGA
CHECKED BY: KVR
DRAWING DATE: 07/19/10

SPACE RESERVED FOR PROFESSIONAL SEALS

NORTH CAROLINA PROFESSIONAL SEAL 33186 ENGINEER ZACHARY G. PURVIS 7-19-10

| REVISIONS | | | |
|---|---|---|---|
| NO. | DATE | DESCRIPTION | BY |
| 0 | 06/12/09 | CONSTRUCTION | JGA |
| 1 | 07/19/10 | CONSTRUCTION | JGA |

**MAYWOOD AVE TOWER**
649 MAYWOOD AVE
RALEIGH, NC
WAKE COUNTY

SHEET TITLE

**TITLE SHEET**

SHEET NUMBER

**T-1**


This document, together with the concepts and designs presented herein, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc., shall be without liability to Kimley-Horn and Associates, Inc.

Copyright Kimley-Horn and Associates, Inc., 2009

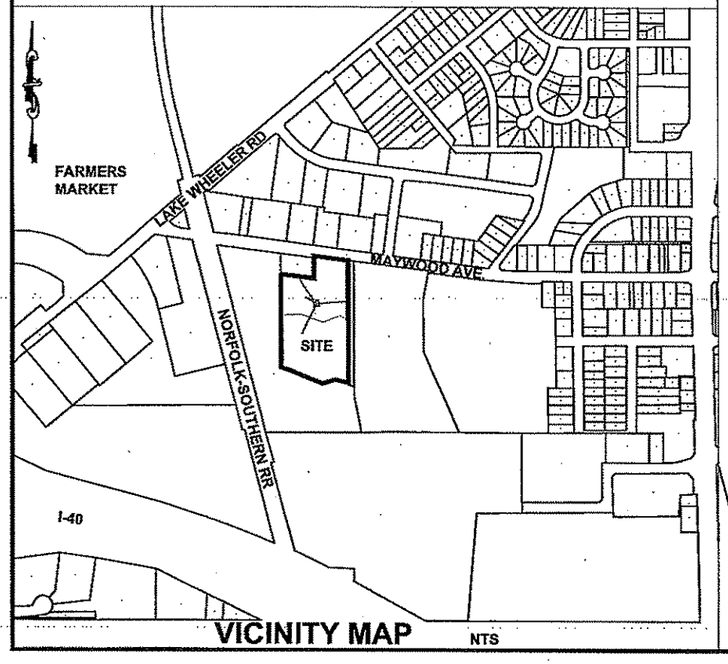

Drawing name: K:\RAL_Wireless\Curtis Media\Curtis Media Maywood Ave\CAD\Curtis Media_Maywood Ave_CD's_REV1.dwg T-1 Jul 19, 2010 9:14am by: jenny.adams

## GENERAL NOTES

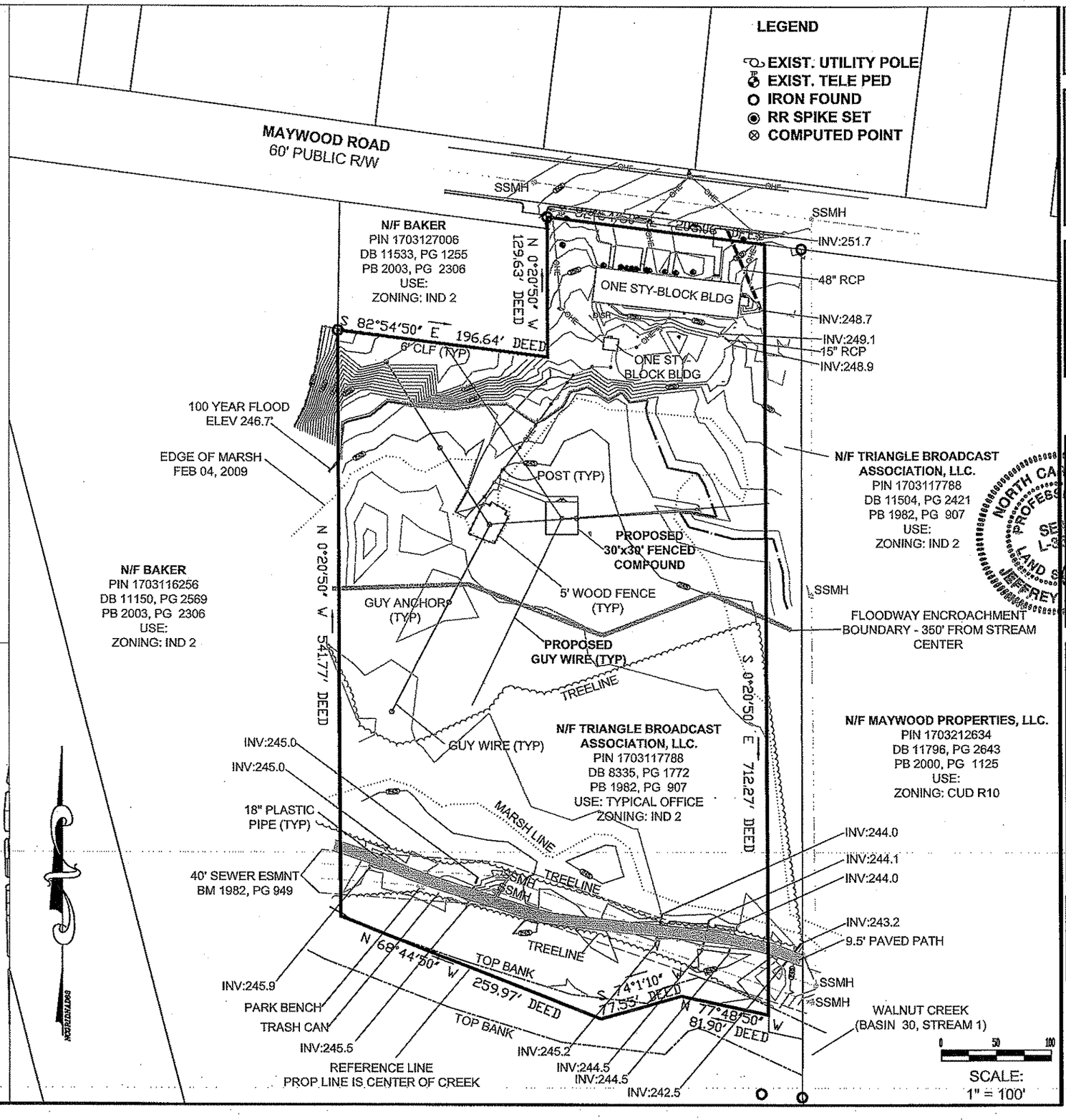
1. THIS SURVEY WAS PREPARED BY BATEMAN CIVIL SURVEY CO., UNDER THE SUPERVISION OF JEFFREY BATEMAN, PLS.
2. THIS PLAN HAS BEEN PREPARED FOR LAYOUT AND PERMITTING PURPOSES ONLY.
3. THIS IS NOT A BOUNDARY SURVEY. PROPERTY LINES SHOWN WERE TAKEN FROM EXISTING FIELD EVIDENCE, EXISTING DEEDS AND PLATS OF PUBLIC RECORD, AND INFORMATION SUPPLIED TO THE SURVEYOR BY THE CLIENT
4. VERTICAL DATUM IS NORTH AMERICA VERTICAL DATUM OF 1988 (NAVD88). THE LATITUDE, LONGITUDE AND STATE PLANE COORDINATES SHOWN ARE GIVEN IN NORTH AMERICAN DATUM OF 1983 (NAD83).
5. FIELD EQUIPMENT USED: TRIMBLE R8 VRS GPS, NIKON TOTAL STATION.
6. ALL DISTANCES ARE HORIZONTAL GROUND DISTANCES AND ALL BEARINGS ARE NORTH CAROLINA STATE PLANE COORDINATE SYSTEM UNLESS OTHERWISE SHOWN.
7. PROPERTY OWNER: TRIANGLE BROADCAST ASSOCIATES, LLC.
8. THIS MAP IS NOT A CERTIFIED SURVEY AND HAS NOT BEEN REVIEWED BY A LOCAL GOVERNMENT AGENCY FOR COMPLIANCE WITH ANY APPLICABLE LAND DEVELOPEMENT REGULATIONS.
9. THIS PROPERTY LIES IN ZONE X AND ZONE AE PER FLOOD INSURANCE RATE MAP 370243 1703 J, DATED MAY 2, 2006.
10. SEE SHEET 3 FOR TITLE REPORT EXCEPTIONS.

## PROPOSED TOWER DATA

| | |
|---|---|
| LATITUDE | N 35° 45' 37.266" (NAD83) |
| LONGITUDE | W 078° 39' 24.682" (NAD83) |
| GROUND ELEVATION | 244.60' (NAVD88) |




VICINITY MAP NTS




## CONSTRUCTION DRAWINGS


**CURTIS MEDIA GROUP**

3012 HIGHWOODS BLVD.
RALEIGH, NC 27604
USA

CONSULTANT / CERTIFICATES:

BATEMAN CIVIL SURVEY

Bateman Civil Survey Co, PC
200 N Main St, Holly Springs, NC 27540


DRAWN BY: jh
CHECKED BY: JLB
DRAWING DATE: 6/10/09

SPACE RESERVED FOR PROFESSIONAL SEALS

I, JEFFREY L. BATEMAN, HEREBY CERTIFY THAT THIS MAP IS A CORRECT REPRESENTATION OF THE LAND SURVEYED AND HAS BEEN PREPARED IN CONFORMITY WITH THE MINIMUM STANDARDS AND REQUIREMENTS OF LAW. WITNESS MY ORIGINAL SIGNATURE, REGISTRATION NUMBER AND SEAL THIS 10 DAY OF JUNE, 2009.

NORTH CAROLINA PROFESSIONAL SEAL L-3502 LAND SURVEYOR JEFFREY L. BATEMAN

6/10/09

JEFFREY L. BATEMAN, NC PLS L-3502

| REVISIONS | | | |
|---|---|---|---|
| NO. | DATE | DESCRIPTION | BY |

**MAYWOOD AVENUE TOWER**

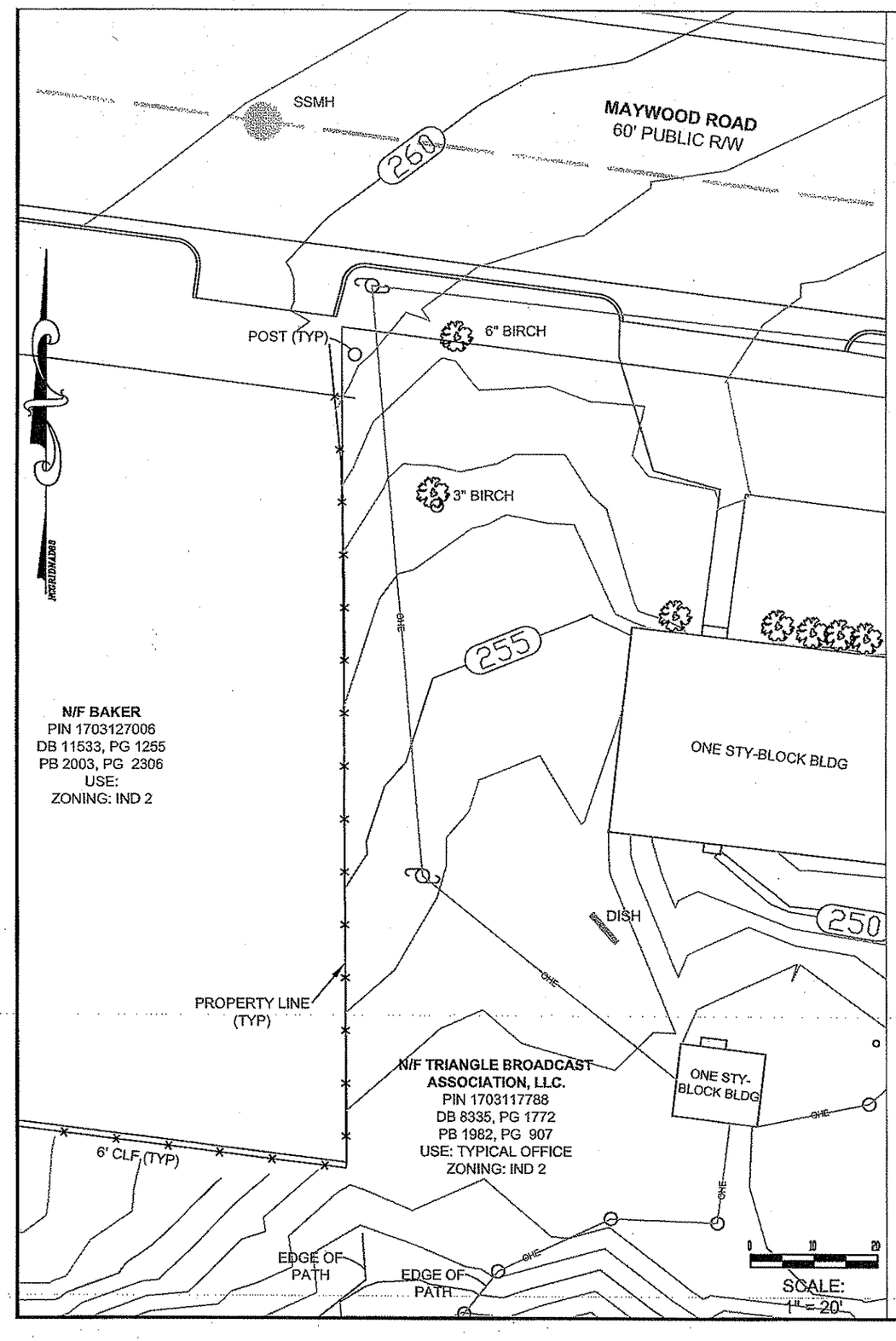
649 MAYWOOD AVE
RALEIGH, NORTH CAROLINA
WAKE COUNTY

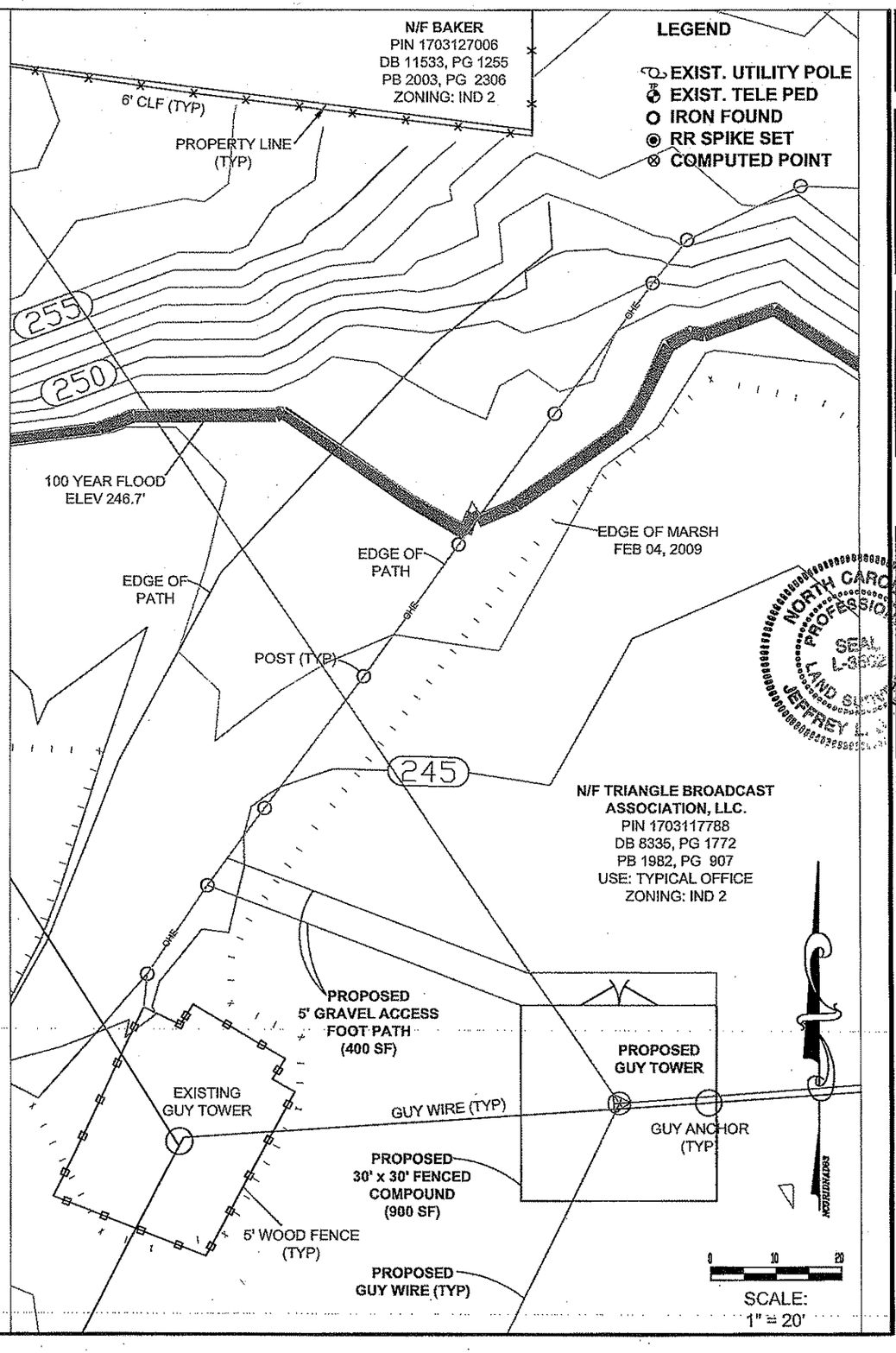
SHEET TITLE

**SITE SURVEY**

SHEET NUMBER

1 OF 3




# CONSTRUCTION DRAWINGS


**CURTIS MEDIA GROUP**

3012 HIGHWOODS BLVD.
RALEIGH, NC 27604
USA

CONSULTANT / CERTIFICATES:

BATEMAN CIVIL SURVEY

**Bateman Civil Survey Co, PC**
200 N Main St, Holly Springs, NC 27540


DRAWN BY: jh
CHECKED BY: JLB
DRAWING DATE: 6/10/09

SPACE RESERVED FOR PROFESSIONAL SEALS

I, JEFFREY L. BATEMAN, HEREBY CERTIFY THAT THIS MAP IS A CORRECT REPRESENTATION OF THE LAND PLATTED AND HAS BEEN PREPARED IN CONFORMITY WITH THE MINIMUM STANDARDS AND REQUIREMENTS OF LAW. WITNESS MY ORIGINAL SIGNATURE, REGISTRATION NUMBER AND SEAL THIS 10 DAY OF JUNE, 2009.

NORTH CAROLINA PROFESSIONAL SEAL L-3502 LAND SURVEYOR JEFFREY L. BATEMAN

6/10/09

JEFFREY L. BATEMAN, NC PLS L-3502

| REVISIONS | | | |
|---|---|---|---|
| NO. | DATE | DESCRIPTION | BY |

**MAYWOOD AVENUE TOWER**

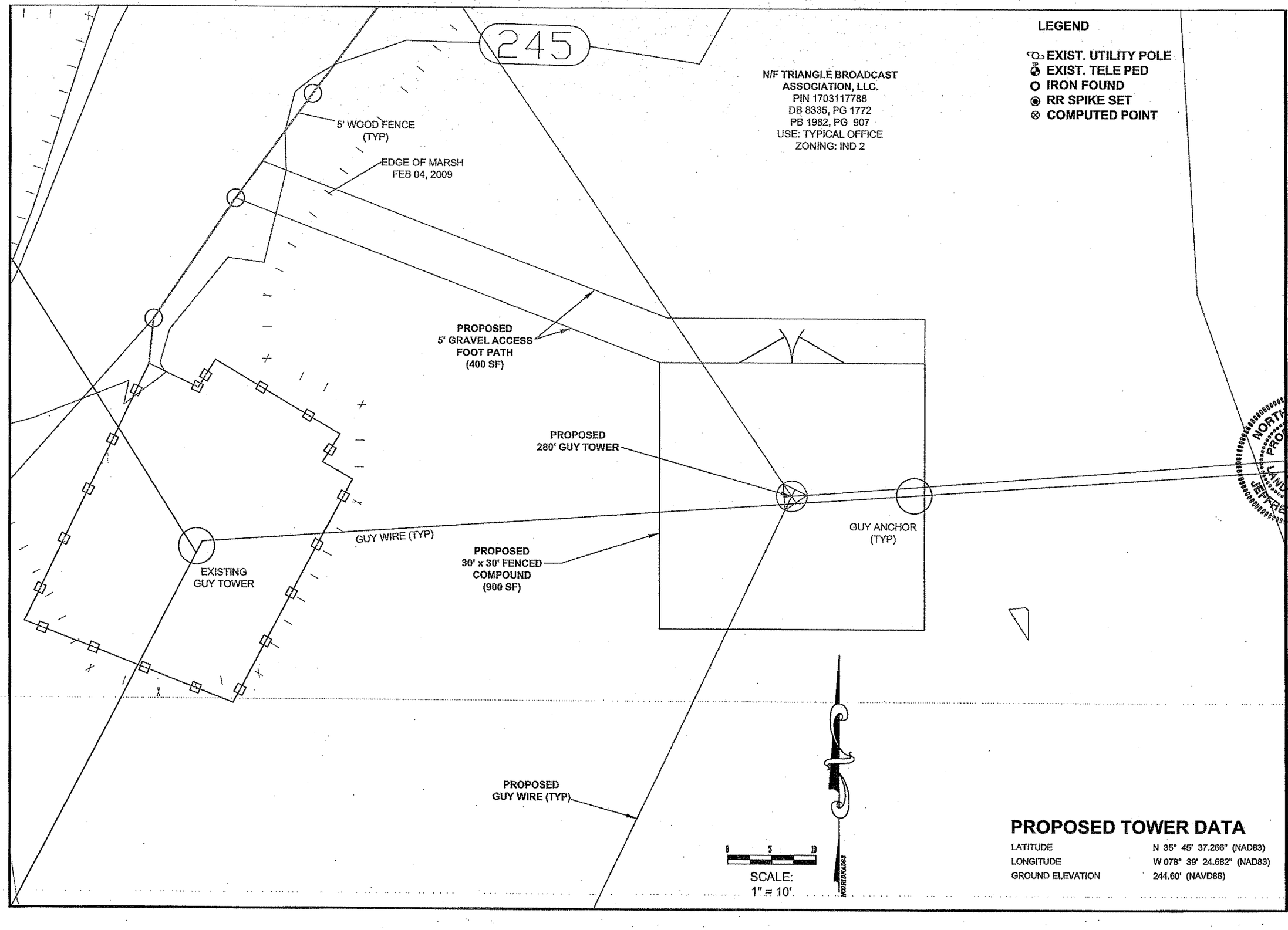
649 MAYWOOD AVE
RALEIGH, NORTH CAROLINA
WAKE COUNTY

SHEET TITLE

**SITE SURVEY**

SHEET NUMBER

2 OF 3




## PROPOSED TOWER DATA

| | |
|---|---|
| LATITUDE | N 35° 45' 37.266" (NAD83) |
| LONGITUDE | W 078° 39' 24.682" (NAD83) |
| GROUND ELEVATION | 244.60' (NAVD88) |

# CONSTRUCTION DRAWINGS

**CURTIS MEDIA GROUP**

3012 HIGHWOODS BLVD.
RALEIGH, NC 27604
USA


CONSULTANT / CERTIFICATES:

BATEMAN CIVIL SURVEY

**Bateman Civil Survey Co, PC**
200 N Main St, Holly Springs, NC 27540


DRAWN BY: jh
CHECKED BY: JLB
DRAWING DATE: 6/10/09

SPACE RESERVED FOR PROFESSIONAL SEALS

I, JEFFREY L. BATEMAN, HEREBY CERTIFY THAT THIS MAP IS A CORRECT REPRESENTATION OF THE LAND PLATTED AND HAS BEEN PREPARED IN CONFORMITY WITH THE MINIMUM STANDARDS AND REQUIREMENTS OF LAW. WITNESS MY ORIGINAL SIGNATURE, REGISTRATION NUMBER AND SEAL THIS 10 DAY OF JUNE, 2009.

NORTH CAROLINA PROFESSIONAL SEAL 3502 SURVEYOR JEFFREY L. BATEMAN

6/10/09

JEFFREY L. BATEMAN, NC PLS L-3502

| REVISIONS | | | |
|---|---|---|---|
| NO. | DATE | DESCRIPTION | BY |

**MAYWOOD AVENUE TOWER**

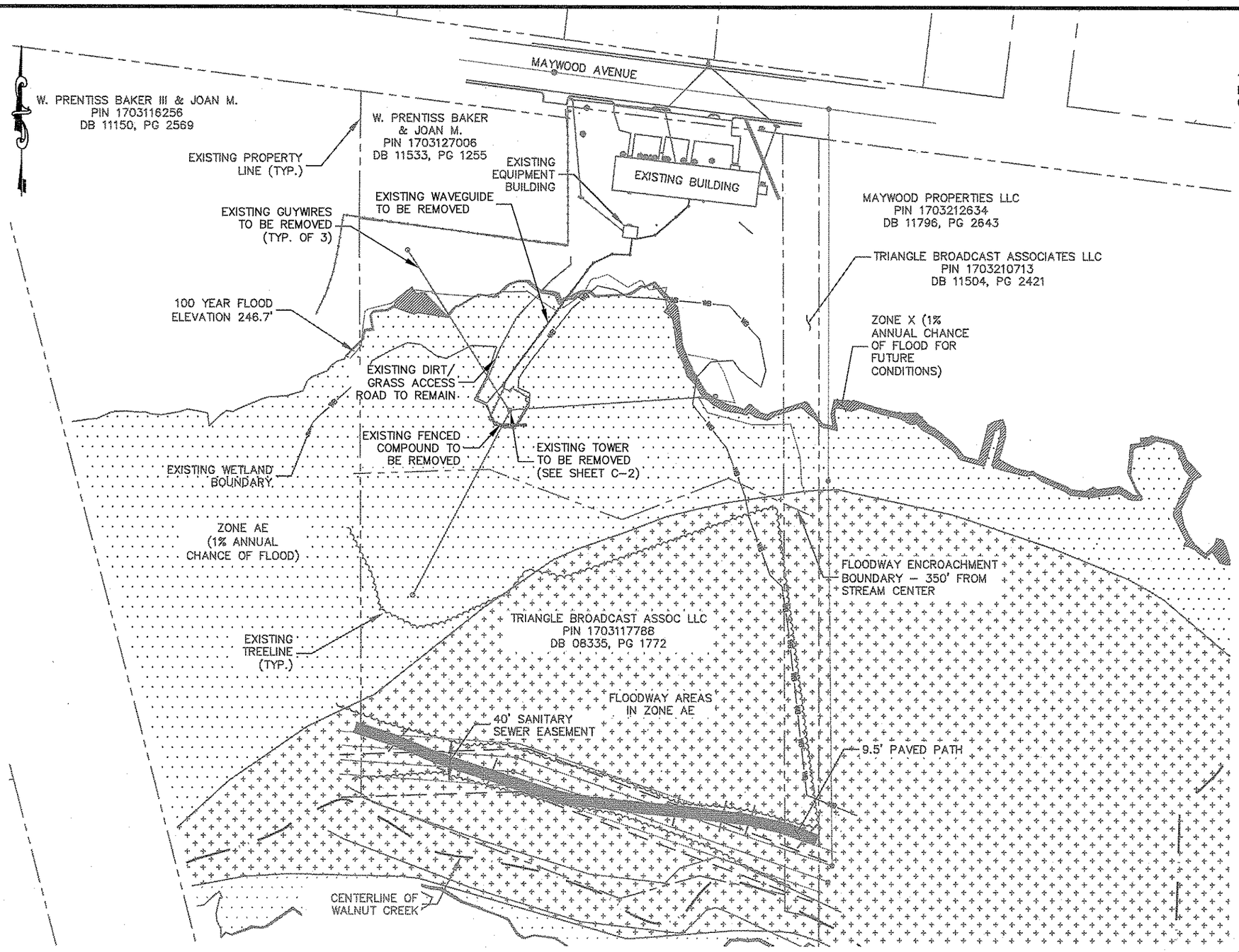
649 MAYWOOD AVE
RALEIGH, NORTH CAROLINA
WAKE COUNTY

SHEET TITLE

**SITE SURVEY**

SHEET NUMBER

3 OF 3




## SITE SURVEY NOTES

1. INFORMATION ON THIS PLAN WAS INCORPORATED FROM WAKE COUNTY GIS.

GRAPHIC SCALE

100 0 50 100 200

( IN FEET )
1 inch = 100 ft.

**EXISTING SITE LAYOUT**

SCALE: 1"=100'-0"

1

This document, together with the concepts and designs presented herein, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc., shall be without liability to Kimley-Horn and Associates, Inc.

Copyright Kimley-Horn and Associates, Inc., 2009

Drawing name: K:\RAL_Wireless\Curtis Meadia Maywood Ave\CAD\Curtis Media_Maywood Ave_CD's.dwg T2 Jun 11, 2009 12:53pm by: jenny.adams

**CONSTRUCTION DRAWINGS**

**CURTIS MEDIA GROUP**

3012 HIGHWOODS BLVD.
RALEIGH, NC 27604
USA

CONSULTANT / CERTIFICATES:

Kimley-Horn
and Associates, Inc.
NC License F-0102
Post Office Box 33068
Raleigh, North Carolina 27636

DRAWN BY: JGA
CHECKED BY: KVR
DRAWING DATE: 6/12/09

SPACE RESERVED FOR PROFESSIONAL SEALS

NORTH CAROLINA PROFESSIONAL SEAL 33186 ENGINEER ZACHARY G. PURVIS 6-12-09

| REVISIONS | | | |
|---|---|---|---|
| NO. | DATE | DESCRIPTION | BY |

**MAYWOOD AVE TOWER**

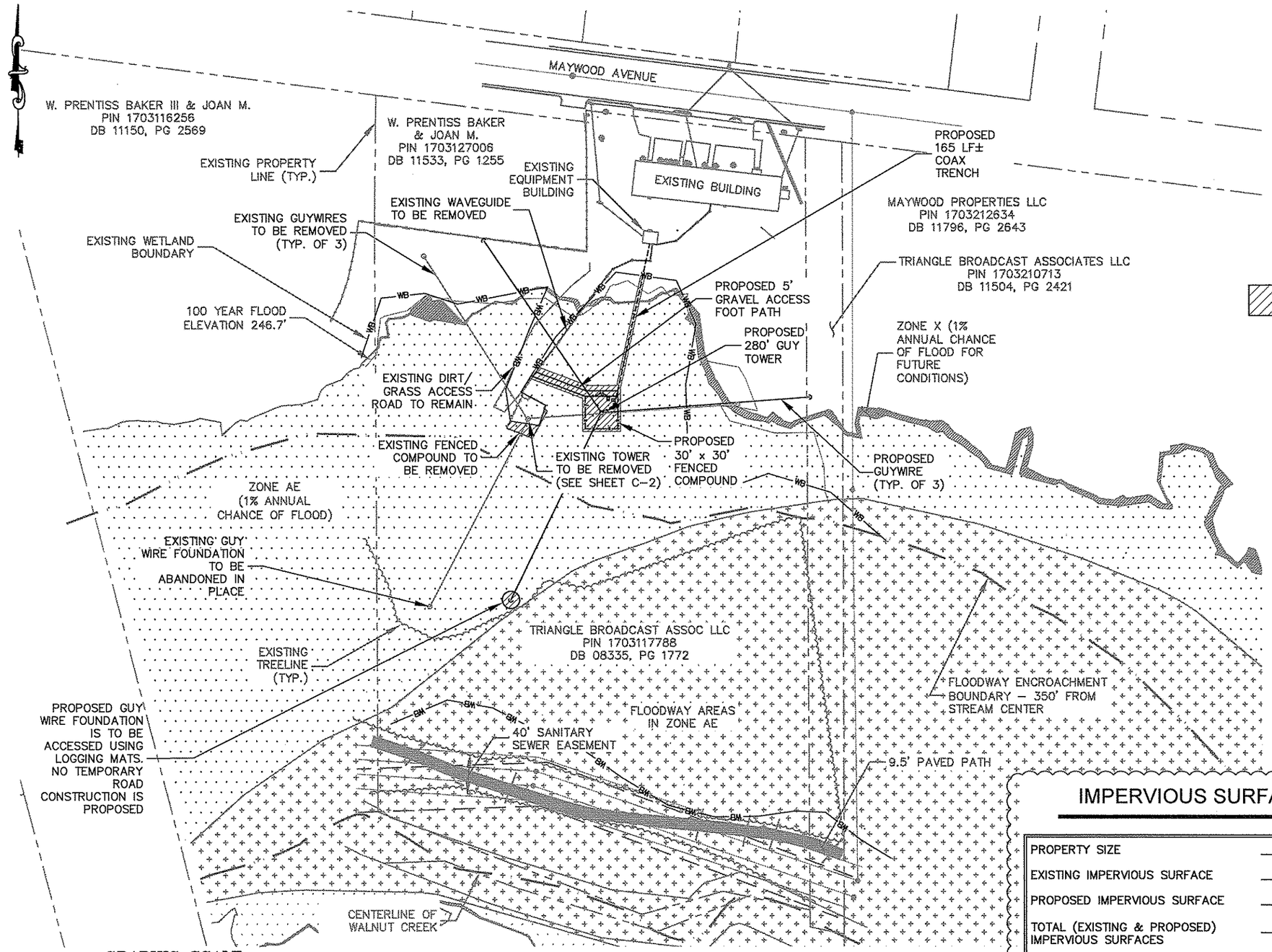
649 MAYWOOD AVE
RALEIGH, NC
WAKE COUNTY

SHEET TITLE

**EXISTING SITE PLAN**

SHEET NUMBER

**T-2**




## SITE PLAN NOTES

1. INFORMATION ON THIS PLAN WAS INCORPORATED FROM WAKE COUNTY GIS.

## IMPERVIOUS SURFACE CALCULATIONS

| | |
|---|---|
| PROPERTY SIZE | 255,205± SQ. FT. (5.859 ACRES) |
| EXISTING IMPERVIOUS SURFACE | 6,752± SQ. FT. (0.155 ACRES) (2.65%) |
| PROPOSED IMPERVIOUS SURFACE | 400± SQ. FT. (.009 ACRES) |
| TOTAL (EXISTING & PROPOSED) IMPERVIOUS SURFACES | 7,152± SQ. FT. (0.164 ACRES) |
| % CHANGE | 2.80% |
| DISTURBED AREA | 3,835± SQ. FT. (0.088 ACRES) |

GRAPHIC SCALE

100 0 50 100 200

( IN FEET )
1 inch = 100 ft.

**OVERALL SITE LAYOUT**

SCALE: 1" = 100'

1

**CONSTRUCTION DRAWINGS**


**CURTIS MEDIA GROUP**

3012 HIGHWOODS BLVD.
RALEIGH, NC 27604
USA

CONSULTANT / CERTIFICATES:

Kimley-Horn and Associates, Inc.
NC License F-0102
Post Office Box 33068
Raleigh, North Carolina 27636


DRAWN BY: JGA
CHECKED BY: KVR
DRAWING DATE: 07/19/10

SPACE RESERVED FOR PROFESSIONAL SEALS

NORTH CAROLINA PROFESSIONAL SEAL 33186 ENGINEER ZACHARY G. PURVIS 7-19-10

| REVISIONS NO. | DATE | DESCRIPTION | BY |
|---|---|---|---|
| 0 | 06/12/09 | CONSTRUCTION | JGA |
| 1 | 07/19/10 | CONSTRUCTION | JGA |

**MAYWOOD AVE TOWER**

649 MAYWOOD AVE
RALEIGH, NC
WAKE COUNTY

SHEET TITLE

**OVERALL SITE LAYOUT**

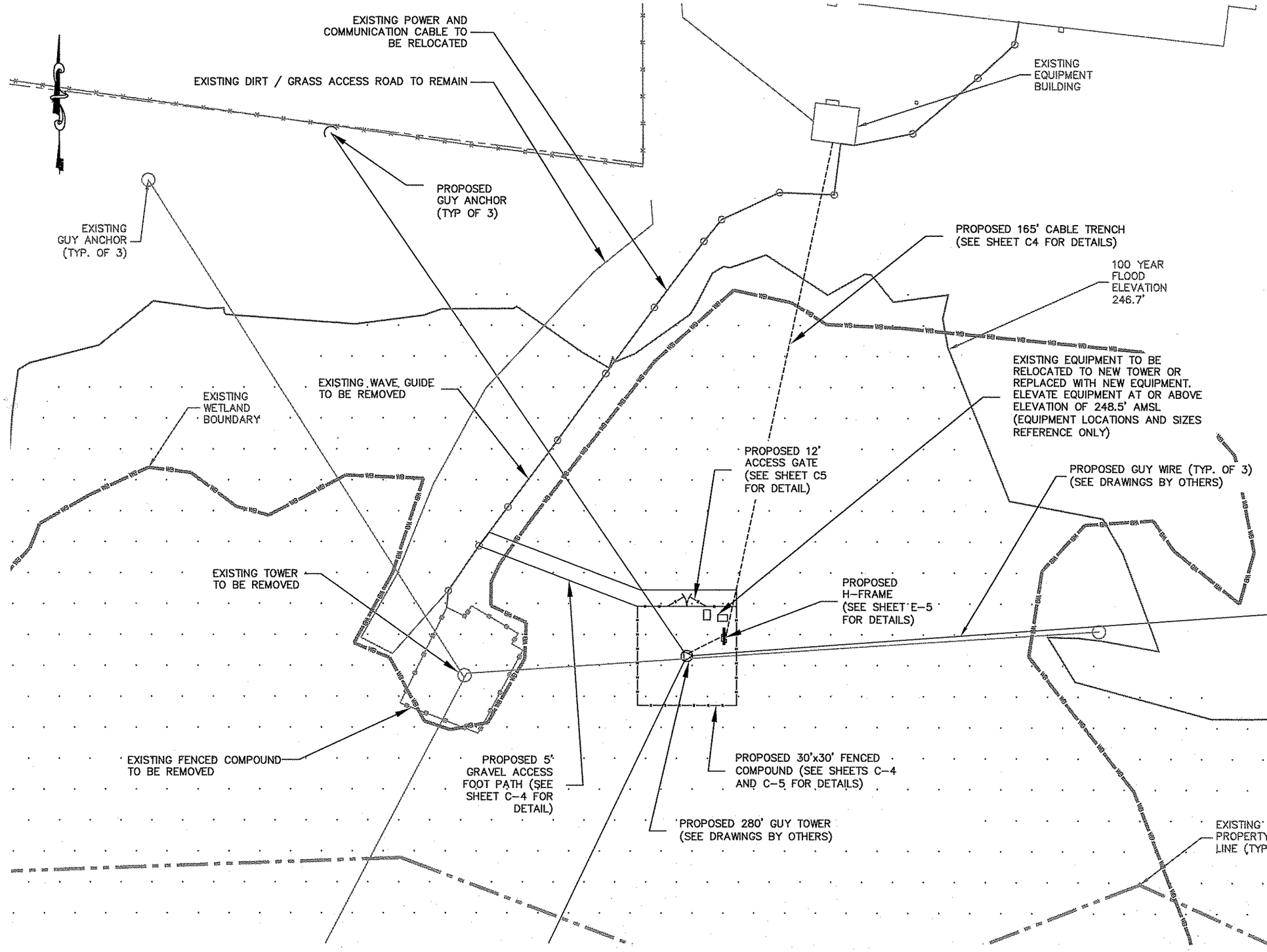
SHEET NUMBER

**C-1**


This document, together with the concepts and designs presented herein, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc., shall be without liability to Kimley-Horn and Associates, Inc.

Copyright Kimley-Horn and Associates, Inc., 2009


Drawing name: K:\RAL_Wireless\Curtis Media\Curtis Media Maywood Ave\CAD\Curtis Media_Maywood Ave_CD's_REV1.dwg C-1 Jul 19, 2010 9:14am by: Jenny.adams




**SITE PLAN**

SCALE: 1"=30'

1

This document, together with the concepts and designs presented herein, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc., shall be without liability to Kimley-Horn and Associates, Inc.

Copyright Kimley-Horn and Associates, Inc., 2009

Drawing name: K:\RAL_Wireless\Curtis Media Maywood Ave\CAD\Curtis Media_Maywood Ave_60's.dwg C-2 Jun 18, 2009 9:48am by: jenny.adams

**CONSTRUCTION DRAWINGS**

**CURTIS MEDIA GROUP**

3012 HIGHWOODS BLVD.
RALEIGH, NC 27604
USA

CONSULTANT / CERTIFICATES:

Kimley-Horn and Associates, Inc.
NC License F-0102
Post Office Box 33068
Raleigh, North Carolina 27636

DRAWN BY: JGA
CHECKED BY: KVR
DRAWING DATE: 6/12/09

SPACE RESERVED FOR PROFESSIONAL SEALS

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 33186 ZACHARY G. PURVIS 6-12-09

| REVISIONS NO. | DATE | DESCRIPTION | BY |
|---|---|---|---|
| | | | |

**MAYWOOD AVE TOWER**

649 MAYWOOD AVE
RALEIGH, NC
WAKE COUNTY

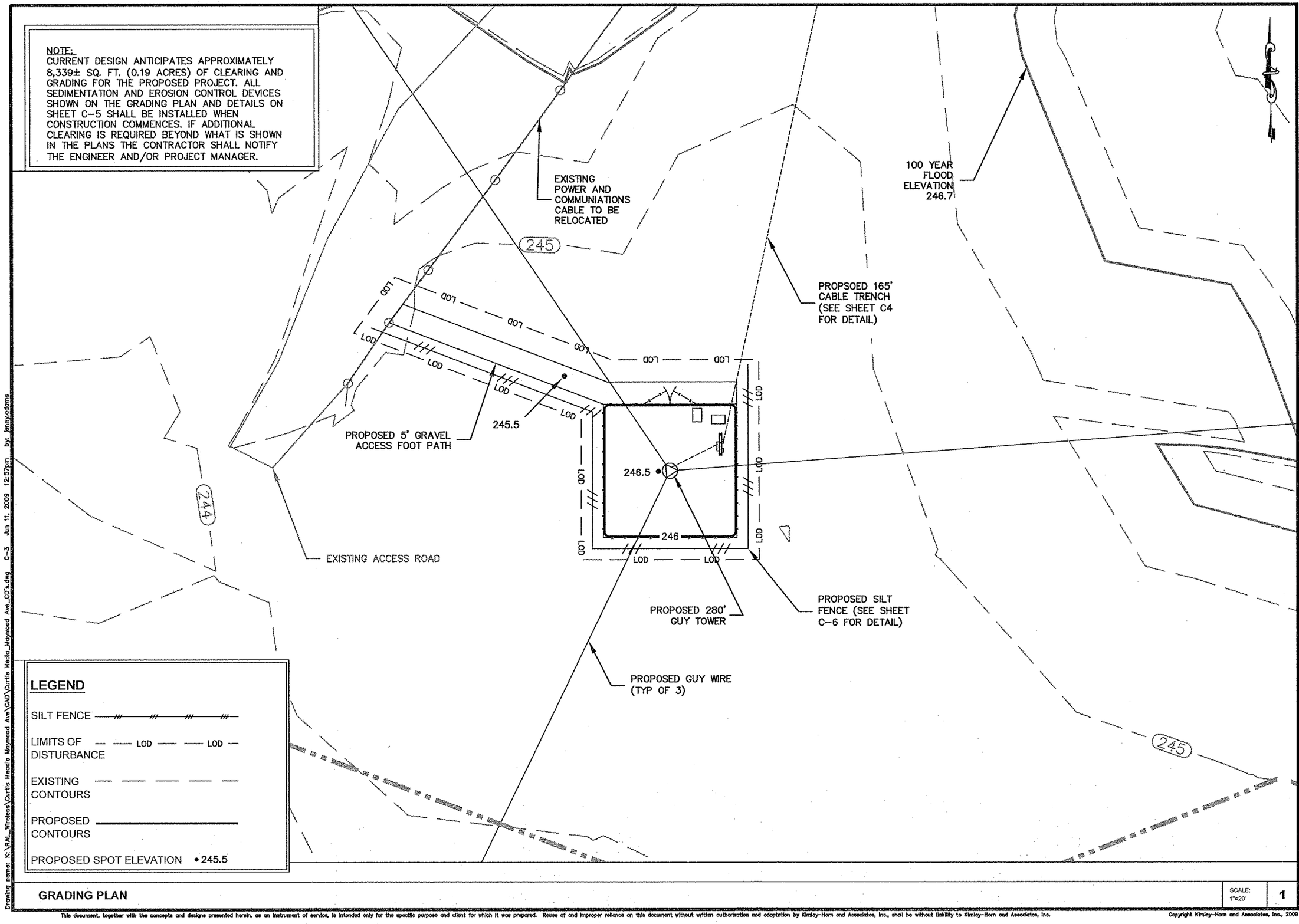
SHEET TITLE

**SITE PLAN**

SHEET NUMBER

**C-2**

NOTE:
CURRENT DESIGN ANTICIPATES APPROXIMATELY 8,339± SQ. FT. (0.19 ACRES) OF CLEARING AND GRADING FOR THE PROPOSED PROJECT. ALL SEDIMENTATION AND EROSION CONTROL DEVICES SHOWN ON THE GRADING PLAN AND DETAILS ON SHEET C-5 SHALL BE INSTALLED WHEN CONSTRUCTION COMMENCES. IF ADDITIONAL CLEARING IS REQUIRED BEYOND WHAT IS SHOWN IN THE PLANS THE CONTRACTOR SHALL NOTIFY THE ENGINEER AND/OR PROJECT MANAGER.




## LEGEND

SILT FENCE

LIMITS OF DISTURBANCE — LOD — LOD —

EXISTING CONTOURS

PROPOSED CONTOURS

PROPOSED SPOT ELEVATION •245.5

**GRADING PLAN**

SCALE: 1"=20'

1

**CONSTRUCTION DRAWINGS**


**CURTIS MEDIA GROUP**
3012 HIGHWOODS BLVD.
RALEIGH, NC 27604
USA

CONSULTANT / CERTIFICATES:
Kimley-Horn and Associates, Inc.
NC License F-0102
Post Office Box 33068
Raleigh, North Carolina 27636


DRAWN BY: JGA
CHECKED BY: KVR
DRAWING DATE: 6/12/09

SPACE RESERVED FOR PROFESSIONAL SEALS

NORTH CAROLINA PROFESSIONAL SEAL 33186 ENGINEER ZACHARY G. PURVIS 6-12-09

| REVISIONS | | | |
|---|---|---|---|
| NO. | DATE | DESCRIPTION | BY |

**MAYWOOD AVE TOWER**
649 MAYWOOD AVE
RALEIGH, NC
WAKE COUNTY

SHEET TITLE

**GRADING & EROSION CONTROL PLAN**

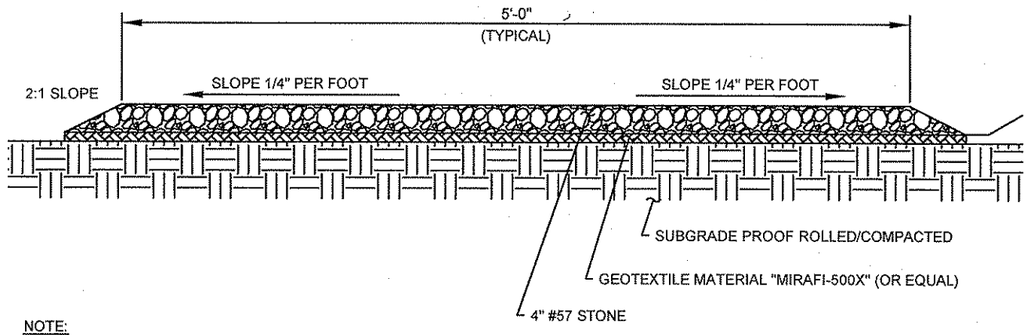
SHEET NUMBER

**C-3**


This document, together with the concepts and designs presented herein, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc., shall be without liability to Kimley-Horn and Associates, Inc.

Copyright Kimley-Horn and Associates, Inc., 2009


Drawing name: K:\RAL_Wireless\Curtis Meadia Maywood Ave\CAD\Curtis Meadia_Maywood Ave_CD's.dwg C-3 Jun 11, 2009 12:57pm by: Jenny.adams



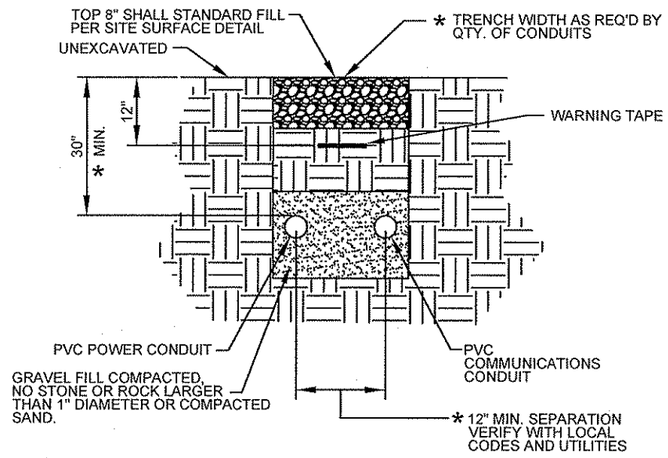

NOTE:
-USE OF SWALES AND/OR DRAINAGE DITCHES FOR PROPOSED WATER RUNOFF AS NEEDED.

-AGGREGATE IS BASED ON STANDARD AASHTO.

-CROWN IN CENTER

## ACCESS FOOT PATH SURFACING DETAIL

SCALE: N.T.S. | 1

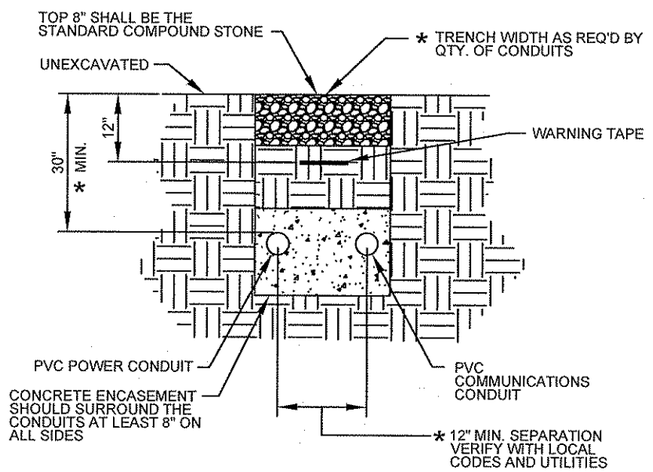



* AS PER LOCAL CODE REQUIREMENTS

NOTE:
NO DIRT SHALL BE USED FOR BACK FILLING ONLY SMALL, CLEAN STONE OR SAND

## TYPICAL CONDUIT TRENCH

SCALE: N.T.S. | 2




* AS PER LOCAL CODE REQUIREMENTS

NOTE:
NO DIRT SHALL BE USED FOR BACK FILLING ONLY SMALL, CLEAN STONE OR SAND

## ALTERNATE TYPICAL CONDUIT CONCRETE ENCASED

SCALE: N.T.S. | 3

This document, together with the concepts and designs presented herein, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc., shall be without liability to Kimley-Horn and Associates, Inc.

Copyright Kimley-Horn and Associates, Inc., 2009

plotting name: K:\RAL_Wireless\Curtis Media Maywood Ave\CAD\Curtis Media_Maywood Ave_CD's.dwg C-4 Jun 18, 2009 10:49am by: jennyadams

**CONSTRUCTION DRAWINGS**

**CURTIS MEDIA GROUP**

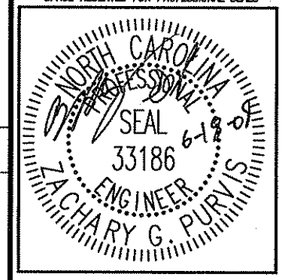
3012 HIGHWOODS BLVD.
RALEIGH, NC 27604
USA

CONSULTANT / CERTIFICATES:

Kimley-Horn and Associates, Inc.
NC License F-0102
Post Office Box 33068
Raleigh, North Carolina 27636

DRAWN BY: JGA
CHECKED BY: KVR
DRAWING DATE: 6/12/09

SPACE RESERVED FOR PROFESSIONAL SEALS




| REVISIONS | | | |
|---|---|---|---|
| NO. | DATE | DESCRIPTION | BY |

**MAYWOOD AVE TOWER**

649 MAYWOOD AVE
RALEIGH, NC
WAKE COUNTY

SHEET TITLE

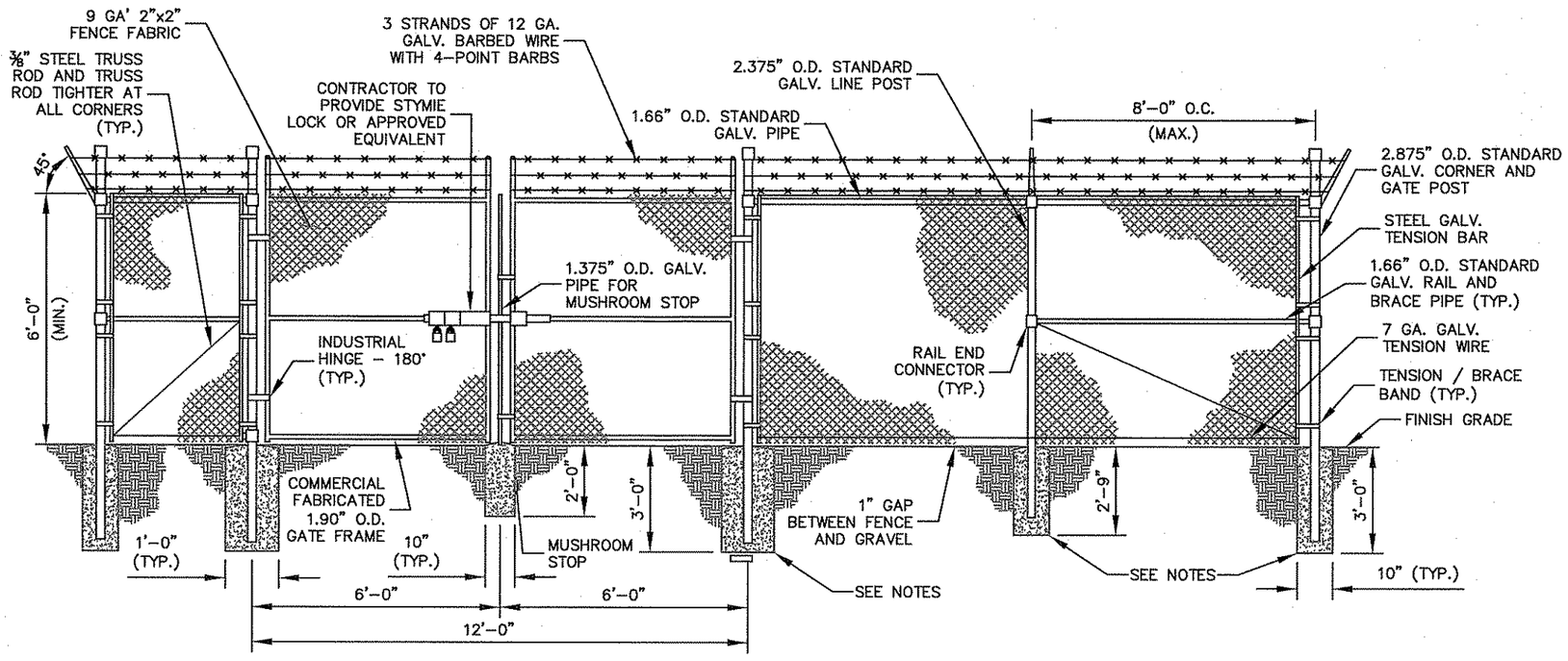
**CONSTRUCTION DETAILS**

SHEET NUMBER

**C-4**

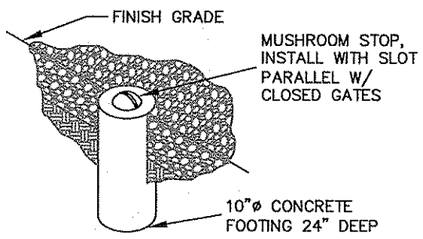
## FENCE NOTES

1. USE 3,000–PSI CONCRETE, FULLY CONSOLIDATED AROUND THE POST.
2. WHERE THE POST IS SET IN ROCK OR CONCRETE, CORE A HOLE 12" DEEP AND 1" LARGER IN DIAMETER THAN THE POST. SET THE POST AND GROUT IN PLACE USING NON–SHRINK GROUT.
3. ALL POSTS MUST BE PLUMB AND ALIGNED WITH ONE ANOTHER IN BOTH HORIZONTAL AND VERTICAL PLANES.
4. CORNERS AND GATEPOSTS FOR CHAIN LINK FENCES SHALL EXTEND ABOVE THE TOP STRAND OF BARBED WIRE TO PROVIDE TENSIONING FOR THE BARBED WIRE.
5. PROVIDE MIDRAILS AND BRACING AT ALL CORNER POSTS WHERE THE FENCE CHANGES DIRECTION BY MORE THAN 30 DEGREES.
6. THE GRADE OF THE SITE AND INSTALLATION OF THE FENCE SHALL PROVIDE FOR NO MORE THAN A 1" GAP BETWEEN THE BOTTOM OF THE FENCE MATERIAL AND FINISH GRADE.
7. CONTRACTOR SHALL PROVIDE HOLD OPEN DEVICES FOR ALL GATES AT THE SPECIFIED OPEN POSITIONS, DRIVEN PIPE TYPE RECEIVERS ARE NOT AUTHORIZED.
8. CONTRACTOR SHALL ALSO PROVIDE A MUSHROOM TYPE RECEIVER AT THE CLOSE POSITION.



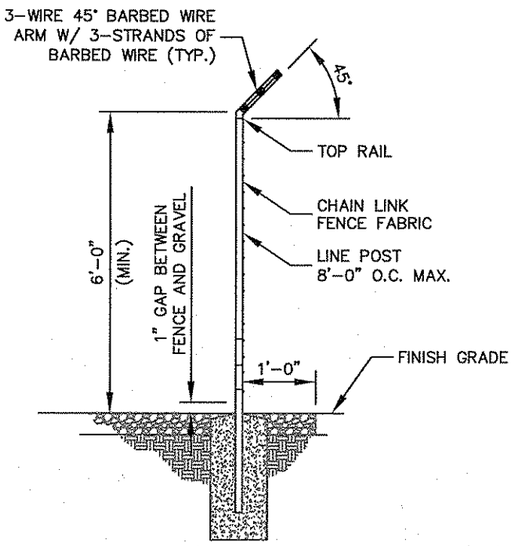

### CHAIN LINK FENCE AND GATE ELEVATION

SCALE: N.T.S. | 1




### MUSHROOM STOP

SCALE: N.T.S. | 2




### SECTION AT FENCE

SCALE: N.T.S. | 3

This document, together with the concepts and designs presented herein, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley–Horn and Associates, Inc., shall be without liability to Kimley–Horn and Associates, Inc.

Copyright Kimley–Horn and Associates, Inc., 2009

Drawing name: K:\RAL_Wireless\Curtis Media Maywood Ave\CAD\Curtis Media_Maywood Ave_CD's.dwg C-5 Jun 11, 2009 12:54pm by: jennyadams

**CONSTRUCTION DRAWINGS**

**CURTIS MEDIA GROUP**

3012 HIGHWOODS BLVD.
RALEIGH, NC 27604
USA

CONSULTANT / CERTIFICATES:

Kimley-Horn and Associates, Inc.
NC License F–0102
Post Office Box 33068
Raleigh, North Carolina 27636

DRAWN BY: JGA
CHECKED BY: KVR
DRAWING DATE: 6/12/09

SPACE RESERVED FOR PROFESSIONAL SEALS

NORTH CAROLINA PROFESSIONAL SEAL 33186 ENGINEER ZACHARY G. PURVIS 6-12-09

| REVISIONS NO. | DATE | DESCRIPTION | BY |
|---|---|---|---|
| | | | |

**MAYWOOD AVE TOWER**

649 MAYWOOD AVE
RALEIGH, NC
WAKE COUNTY

SHEET TITLE

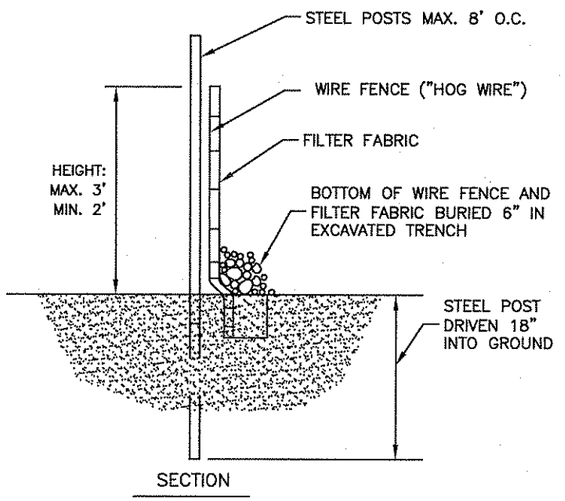
**FENCING DETAILS**

SHEET NUMBER

**C-5**

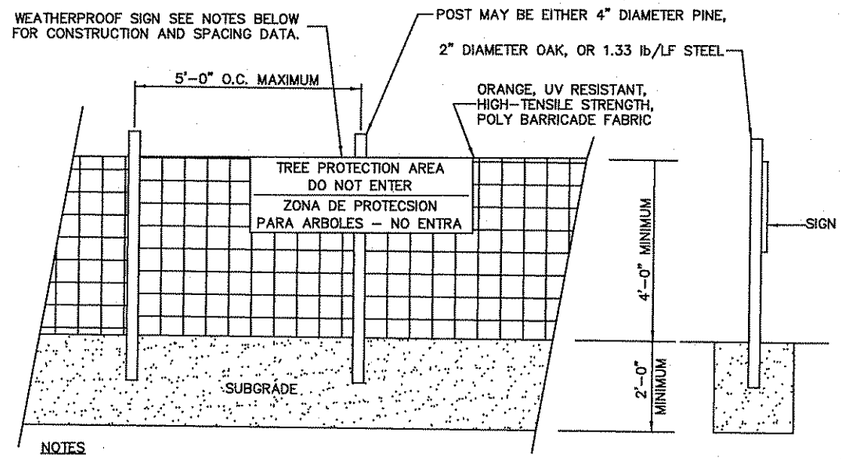
## EROSION CONTROL NOTES

1. EROSION CONTROLS SHALL BE INSTALLED PRIOR TO CONSTRUCTION AND SHALL BE ADEQUATE TO MAINTAIN SEDIMENT ON SITE.
2. ALL EXCAVATED SOILS NOT NEEDED ON SITE FOR BACKFILL OPERATIONS SHALL BECOME PROPERTY OF THE CONTRACTOR AND SHALL BE TAKEN OFF SITE AND LEGALLY DISPOSED OF.
3. SOIL REMAINING ON SITE SHALL HAVE SILT FENCE TIGHTLY PLACED AROUND THE ENTIRE CIRCUMFERENCE OF THE PILE.
4. PROVIDE EROSION CONTROLS AS NECESSARY TO PREVENT EXISTING SOILS FROM DRAINING OFF SITE OR INTO EXISTING DRAINAGE STRUCTURES.
5. ERECTION OF EROSION CONTROLS SHALL BE IN ACCORDANCE WITH STATE AND LOCAL EROSION CONTROL REGULATIONS.




SECTION

**SEDIMENT FENCE (SILT FENCE)** | SCALE: N.T.S. | 1




NOTES

INSTALL TREE PROTECTION FENCE AND SIGNAGE PRIOR TO CALLING FOR SITE INSPECTION. MAINTAIN TREE PROTECTION FENCE THROUGHOUT DURATION OF PROJECT. SIGNS SHALL BE PLACED AT 50' MAXIMUM INTERVALS.

**TREE PROTECTION FENCE** | SCALE: N.T.S. | 2

## SEEDING SCHEDULE FOR WINTER / SPRING CONSTRUCTION ACTIVITIES

### SEEDING MIXTURE

| Species | Rate (lb/acre) |
|---|---|
| Rye (grain) | 120 |
| Annual lespedeza (Kobe in Piedmont and Coastal Plain, Korean in Mountains) | 50 |

Omit annual lespedeza when duration of temporary cover is not to extend beyond June.

### SEEDING DATES

Mountains--Above 2500 ft: Feb 15 - May 15
Below 2500 ft.: feb. 1 - May 1
Piedmont--Jan. 1 - May 1
Coastal Plain--Dec. 1 - Apr. 15

### SOIL AMENDMENTS

Follow recommendations of soil tests or apply 2,000 lb/acre ground agricultural limestone and 750 lb/acre 10-10-10 fertilizer.

### MULCH

Apply 4,000 lb/acre straw. Anchor straw by tacking with asphalt, netting, or a mulch anchoring tool. A disk with blades set nearly straight can be used as a mulch anchoring tool.

### MAINTENANCE

Refertilize if growth is not fully adequate. Reseed, refertilize and mulch immediately following erosion or other damage.

## SEEDING SCHEDULE FOR SUMMER CONSTRUCTION ACTIVITIES

### SEEDING MIXTURE

| Species | Rate (lb/acre) |
|---|---|
| Common Bermudagrass | 40-80 (1-2 lb/1,000 sq. ft.) |

### SEEDING DATES

Coastal Plain--Apr. 1 - July
Piedmont--Apr. 15 - June 30

### SOIL AMENDMENTS

Apply lime and fertilizer according to soil tests, or apply 3,000 lb/acre ground agricultural limestone and 500 lb/acre 10-10-10 fertilizer.

### MULCH

Use jute, excelsior matting, or other effective channel lining material to cover the bottom of channels and ditches. The lining should extend above the highest calculated depth of flow. On channel side slopes above this height, and in drainages not requiring temporary lining, apply 4,000 lb/acre grain straw and anchor straw by stapling netting over the top.

### MAINTENANCE

A minimum of 3 weeks is required for establishment. Inspect and repair mulch frequently. Refertilize the following Apr. with 50 lb/acre nitrogen.

## PERMANENT SEEDING SCHEDULE FOR CONSTRUCTION ACTIVITIES

### SEEDING MIXTURE

| Species | Rate (lb/acre) |
|---|---|
| Tall fescue | 80 |
| Pensacola Bahiagrass | 50 |
| Sericea lespedeza | 30 |
| Kobe lespedeza | 10 |

### SEEDING NOTES

1. From Sept. 1 - Mar. 1, use unscarified sericea seed.
2. On poorly drained sites, omit sericea and increase Kone to 30 lb/acre.
3. Where a neat appearance is desired, omit sericea and increase Kobe to 40lb/acre.

### Nurse Plants

Between Apr. 15 and Aug. 15, add 10 lb/acre German millet or 15 lb/acre Sundangrass. Prior to May 1 or after Aug. 15, add 25 lb/acre rye (grain).

### SEEDING DATES

| | Best | Possible |
|---|---|---|
| Early spring: | Feb. 15-Mar. 20 | Feb. 15-Apr. 30 |
| Fall: | Sept. 1-Sept. 30 | Sept. 1-Oct. 31 |

### SOIL AMENDMENTS

Apply lime and fertilizer according to soil tests, or apply 3,000-5,000 lb/acre ground agricultural limestone (use the lower rate on sandy soils) and 1,000 lb/acre 10-10-10 fertilizer.

### MULCH

Apply 4,000 lb/acre grain straw or equivalent cover of another suitable mulch. Anchor straw by tacking with asphalt, netting, roving, or by crimping with a mulch anchoring tool. A disk with blades set nearly straight can be used as a mulch anchoring tool.

### MAINTENANCE

If growth is less than fully adequate, refertilize in the second year, according to soil tests or top dress with 500 lb/acre 10-10-10 fertilizer. Mow as necessary. Reseed, fertilize, and mulch damaged areas immediately.

**SEEDING NOTES** | SCALE: N.T.S. | 3

This document, together with the concepts and designs presented herein, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc., shall be without liability to Kimley-Horn and Associates, Inc.

Copyright Kimley-Horn and Associates, Inc., 2009

Drawing name: K:\RAL_Wireless\Curtis Media Maywood Ave\CAD\Curtis Media_Maywood Ave_C9's.dwg C-6 Jun 11, 2009 12:54pm by: jenny.adams

**CONSTRUCTION DRAWINGS**

**CURTIS MEDIA GROUP**
3012 HIGHWOODS BLVD.
RALEIGH, NC 27604
USA

CONSULTANT / CERTIFICATES:
Kimley-Horn and Associates, Inc.
NC License F-0102
Post Office Box 33068
Raleigh, North Carolina 27636

DRAWN BY: JGA
CHECKED BY: KVR
DRAWING DATE: 6/12/09

SPACE RESERVED FOR PROFESSIONAL SEALS

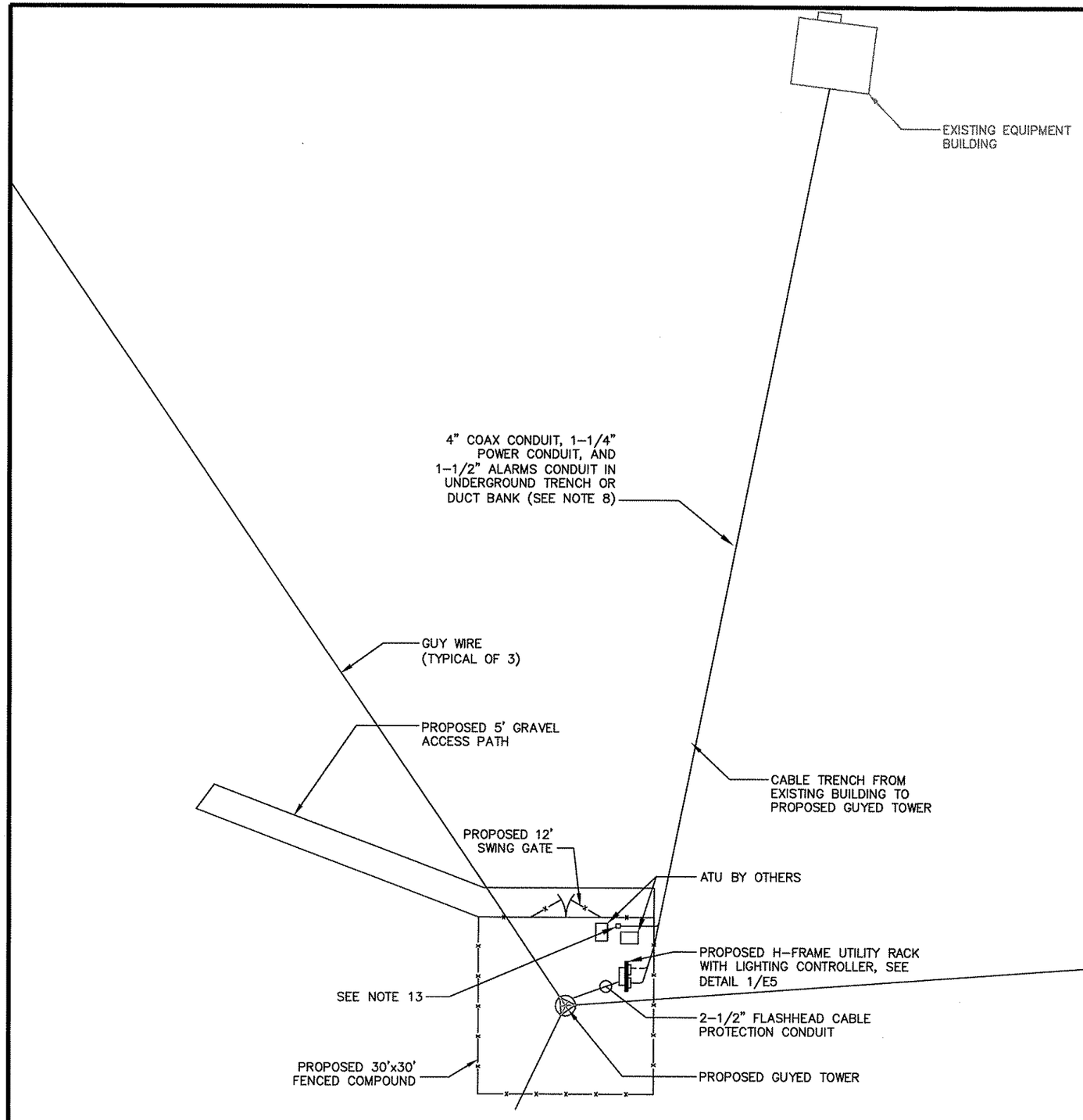
NORTH CAROLINA PROFESSIONAL SEAL 33186 ENGINEER ZACHARY G. PURVIS 6-12-09

| REVISIONS | | | |
|---|---|---|---|
| NO. | DATE | DESCRIPTION | BY |

**MAYWOOD AVE TOWER**
649 MAYWOOD AVE
RALEIGH, NC
WAKE COUNTY

SHEET TITLE
**EROSION CONTROL DETAILS**

SHEET NUMBER
**C-6**




1 / E1 BASIC SERVICE ROUTING PLAN

SCALE: 1" = 20'

## NOTES AND SPECIFICATIONS:

1. ALL ELECTRICAL WORK SHALL COMPLY WITH NEC, STATE, AND LOCAL CODES.

2. CONTRACTOR SHALL OBTAIN OWNER SPECIFICATIONS AND REVIEW FOR ADDITIONAL DETAILS AND REQUIREMENTS THAT MAY NOT BE SHOWN IN THESE DRAWINGS. CONTRACTOR SHALL COMPLY WITH ANY ADDITIONAL OWNER SPECIFICATIONS AND REQUIREMENTS.

3. THE CONTRACTOR SHALL ENSURE ALL ELECTRICAL EQUIPMENT, CIRCUIT BREAKERS, DISCONNECTS, FUSES, AND PANELBOARDS HAVE A FAULT CURRENT INTERRUPTING RATING GREATER THAN THE AVAILABLE FAULT CURRENT. IN NO CASE SHALL THE FAULT CURRENT INTERRUPTING RATING BE LESS THAN 10,000 AMPS.

4. CONTRACTOR TO PROVIDE 2-200 LB TEST POLYETHYLENE PULL CORDS SECURELY FASTENED AT EACH END OF COAX, POWER, AND TELCO/ALARM CONDUITS. PROVIDE CAPS ON ENDS OF UNUSED CONDUIT.

5. PRIOR TO TRENCHING CONTRACTOR SHALL LOCATE ALL EXISTING UNDERGROUND UTILITIES. CONTRACTOR SHALL REPAIR AT CONTRACTOR'S EXPENSE ANY DAMAGE TO EXISTING UTILITIES.

6. CONTRACTOR TO VERIFY EXACT ROUTING OF POWER AND TELCO CONDUIT WITH OWNER. ENSURE ALL CONDUIT STUB-UPS ACCOMMODATE EQUIPMENT REQUIREMENTS.

7. UNDERGROUND CONDUITS SHALL BE SCHEDULE 40 PVC UNLESS NOTED OTHERWISE. MANUFACTURED BENDS SHALL HAVE A MINIMUM RADIUS OF 36" FOR CONDUIT.

8. COAX SHALL BE RUN IN A CONTINUOUS RUN OF RIBBED HDPE, CAPPED AND/OR SEALED AT BOTH ENDS TO PREVENT MOISTURE PENETRATION.

9. CONDUIT RUNS SHALL SLOPE DOWNWARD AND AWAY FROM THE EQUIPMENT. EXCAVATE TRENCHES ALONG STRAIGHT LINES PRIOR TO INSTALLING CONDUIT TO ACCOMMODATE ADJUSTING THE ELEVATION, AS NEEDED.

10. CONDUIT ENTERING EQUIPMENT SHALL BE SEALED WITH A SEALANT THAT IS IDENTIFIED FOR USE WITH THE CABLE/CONDUCTOR INSULATION, SHIELDING, ETC.

11. UPON COMPLETION OF CONSTRUCTION, CONTRACTOR IS RESPONSIBLE FOR REPAIRING ANY DAMAGE CAUSED BY CONSTRUCTION ACTIVITIES TO THE LANDSCAPING AREA.

12. CONTRACTOR ENSURE MINIMUM 3' WORKING CLEARANCE IN FRONT OF ELECTRICAL PANELS PER NEC.

13. COAX CONDUIT SHALL BE TERMINATED WITH WEATHERHEAD OR WITHIN A WEATHER PROTECTIVE ENCLOSURE & SEALED TO PREVENT INTRODUCTION OF MOISTURE INTO CONDUIT.

APOGEE
Consulting Group, PA
7330 Chapel Hill Road Suite 202
Raleigh, N.C. 27607
N.C. License # C-1848
(919) 858-7420 Fax (919) 858-7423
ACG PROJECT NO.: 2009 049

CURTIS MEDIA GROUP
3012 HIGHWOODS BLVD.
RALEIGH, NC 27604
USA

Kimley-Horn and Associates, Inc.
Post Office Box 33068
Raleigh, North Carolina 27636
KHA JOB #: 012928002

DRAWN BY: JCH
CHECKED BY: JDC
DRAWING DATE: 6/11/2009

NORTH CAROLINA PROFESSIONAL SEAL 33867 6/11/09 ENGINEER JOHN D. CALHOUN

| REVISIONS NO. | DATE | DESCRIPTION | BY |
|---|---|---|---|
| 0 | 6/11/09 | PERMIT/CONSTRUCTION | JCH |

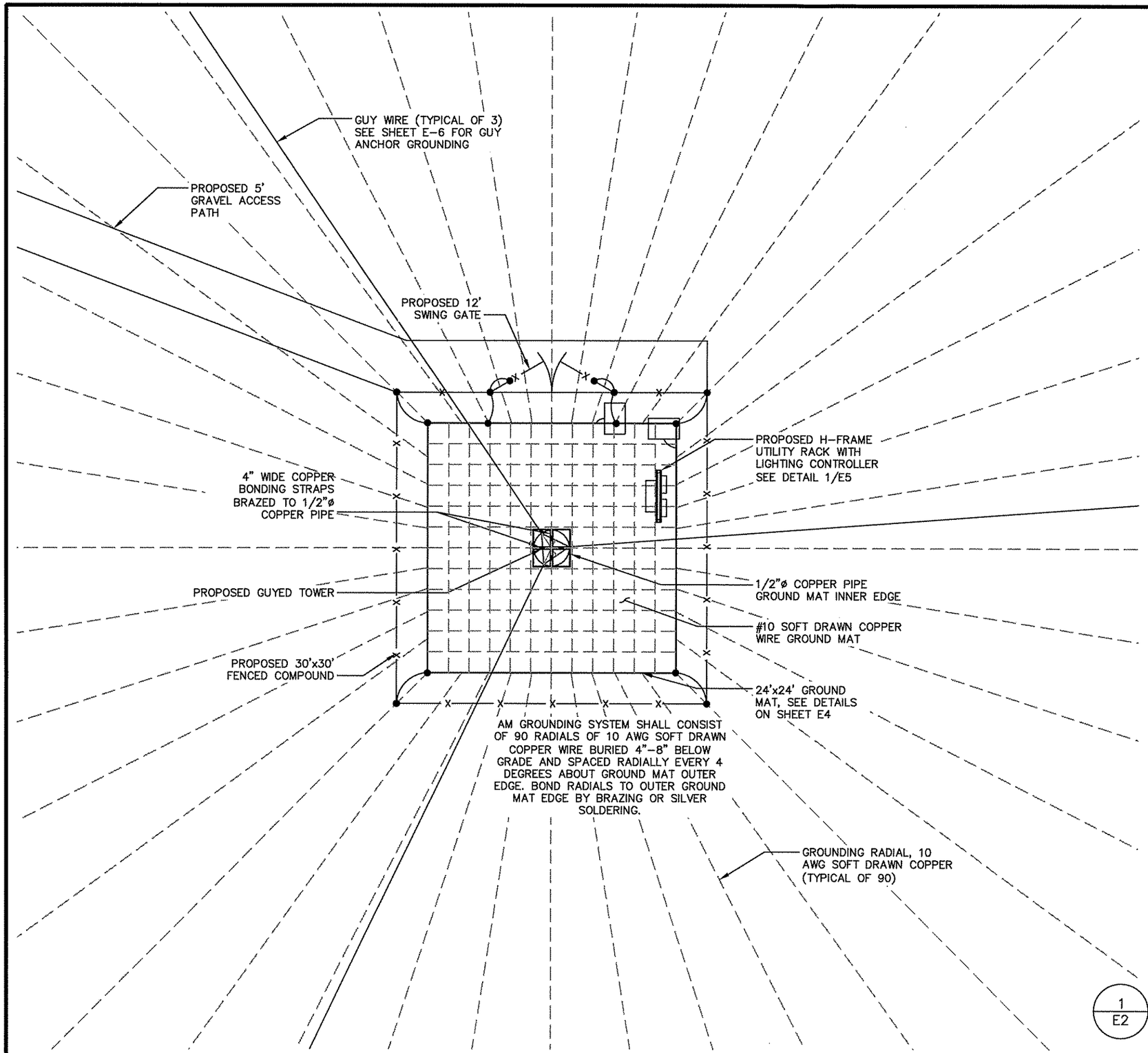
MAYWOOD AVE TOWER
649 MAYWOOD AVE
RALEIGH, NC
WAKE COUNTY

SHEET TITLE
BASIC SERVICE ROUTING PLAN

SHEET NUMBER
E-1

This document, together with the concepts and designs presented herein, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc., shall be without liability to Kimley-Horn and Associates, Inc.

Copyright Kimley-Horn and Associates, Inc., 2009




## NOTES AND SPECIFICATIONS:

1. GROUNDING GRID COMPRISES BOTH THE ANTENNA PASSIVE RADIATOR AS WELL AS GROUNDING ELECTRODE FOR LIGHTNING PROTECTION AND PROTECTION OF PERSONNEL AND EQUIPMENT.

2. LENGTH OF GROUNDING RADIALS TO BE DETERMINED BY TOWER INSTALLER AS REQUIRED TO SATISFY FCC REQUIREMENTS FOR EXISTING LICENSE.

1 / E2

# GROUNDING PLAN

SCALE: 1" = 10'

This document, together with the concepts and designs presented herein, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc., shall be without liability to Kimley-Horn and Associates, Inc.

Copyright Kimley-Horn and Associates, Inc., 2009

APOGEE
Consulting Group, PA
7330 Chapel Hill Road Suite 202
Raleigh, N.C. 27607
N.C. License # C-1848
(919) 858-7420 Fax (919) 858-7423
ACG PROJECT NO.: 2009 049

CURTIS MEDIA GROUP
3012 HIGHWOODS BLVD.
RALEIGH, NC 27604
USA

Kimley-Horn
and Associates, Inc.
Post Office Box 33068
Raleigh, North Carolina 27636
KHA JOB #: 012928002

DRAWN BY: JCH
CHECKED BY: JDC
DRAWING DATE: 6/11/2009

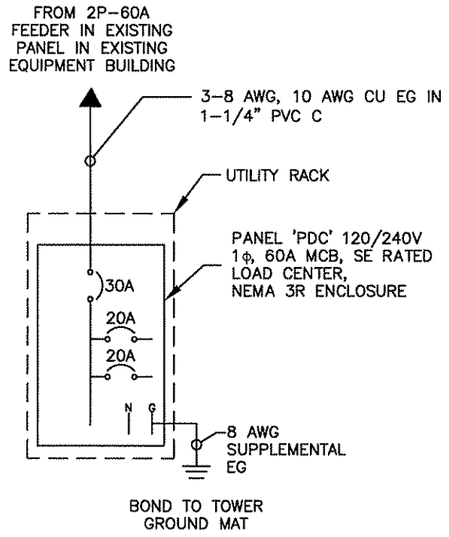
NORTH CAROLINA PROFESSIONAL SEAL 33867 6/11/09 ENGINEER JOHN D. CALHOUN

| REVISIONS | | | |
|---|---|---|---|
| NO. | DATE | DESCRIPTION | BY |
| 0 | 6/11/09 | PERMIT/CONSTRUCTION | JCH |

MAYWOOD AVE TOWER
649 MAYWOOD AVE
RALEIGH, NC
WAKE COUNTY

SHEET TITLE
GROUNDING PLAN

SHEET NUMBER
E-2




ELECTRICAL LOAD SUMMARY:

120/240V SINGLE PHASE 3W, 60A FEEDER, 10,000 AIC

| LOAD DESCRIPTION | kVA |
|---|---|
| HAZARD LIGHT CONTROLLER | 1.36 KVA |
| GFCI RECEPTACLE | 0.18 KVA |
| TOTAL | 1.54 KVA<br>6.4A AT 240V |

## NOTES AND SPECIFICATIONS:

1. ALL ELECTRICAL WORK SHALL COMPLY WITH NEC, STATE, AND LOCAL CODES.

2. CONTRACTOR SHALL OBTAIN OWNER EQUIPMENT DRAWINGS AND REVIEW FOR ADDITIONAL DETAILS AND REQUIREMENTS THAT MAY NOT BE SHOWN IN THESE DRAWINGS. CONTRACTOR SHALL COMPLY WITH ANY ADDITIONAL OWNER SPECIFICATIONS AND REQUIREMENTS.

3. THE CONTRACTOR SHALL ENSURE ALL ELECTRICAL EQUIPMENT, CIRCUIT BREAKERS, DISCONNECTS, FUSES, AND PANELBOARDS HAVE A FAULT CURRENT INTERRUPTING RATING GREATER THAN THE AVAILABLE FAULT CURRENT. IN NO CASE SHALL THE FAULT CURRENT INTERRUPTING RATING BE LESS THAN 10,000 AMPS.

4. THE GROUNDED SERVICE CONDUCTOR (NEUTRAL CONDUCTOR) SHALL BE GROUNDED AT THE SERVICE DISCONNECT ONLY.

5. ALL POWER CIRCUITS SHALL USE COPPER CONDUCTORS WITH THHN/THWN INSULATION. ALL TERMINATIONS SHALL BE RATED FOR AT LEAST 75 DEGREES C.

6. CONTRACTOR SHALL PROVIDE GROUND FAULT CIRCUIT INTERRUPTER (GFCI) TYPE RECEPTACLES FOR ALL UTILITY RECEPTACLES.

7. CONTRACTOR SHALL ENSURE ALL NEUTRAL CONDUCTORS HAVE WHITE INSULATION AND EQUIPMENT GROUND CONDUCTORS HAVE GREEN INSULATION. COLOR TAPE IDENTIFICATION OF THESE CONDUCTORS IS NOT ALLOWED.

8. 120V, 20A CIRCUITS SHALL CONSIST OF 2-12 AWG, 12 AWG EG IN 3/4" CONDUIT UNLESS NOTED OTHERWISE.

1 / E3 SINGLE-LINE DIAGRAM

SCALE: NOT TO SCALE

APOGEE
Consulting Group, PA
7330 Chapel Hill Road Suite 202
Raleigh, N.C. 27607
N.C. License # C-1848
(919) 858-7420 Fax (919) 858-7423
ACG PROJECT NO.: 2009 049

CURTIS MEDIA GROUP
3012 HIGHWOODS BLVD.
RALEIGH, NC 27604
USA

Kimley-Horn and Associates, Inc.
Post Office Box 33068
Raleigh, North Carolina 27636
KHA JOB #: 012928002

DRAWN BY: JCH
CHECKED BY: JDC
DRAWING DATE: 6/11/2009

NORTH CAROLINA PROFESSIONAL SEAL 33867 ENGINEER JOHN D. CALHOUN 6/11/09

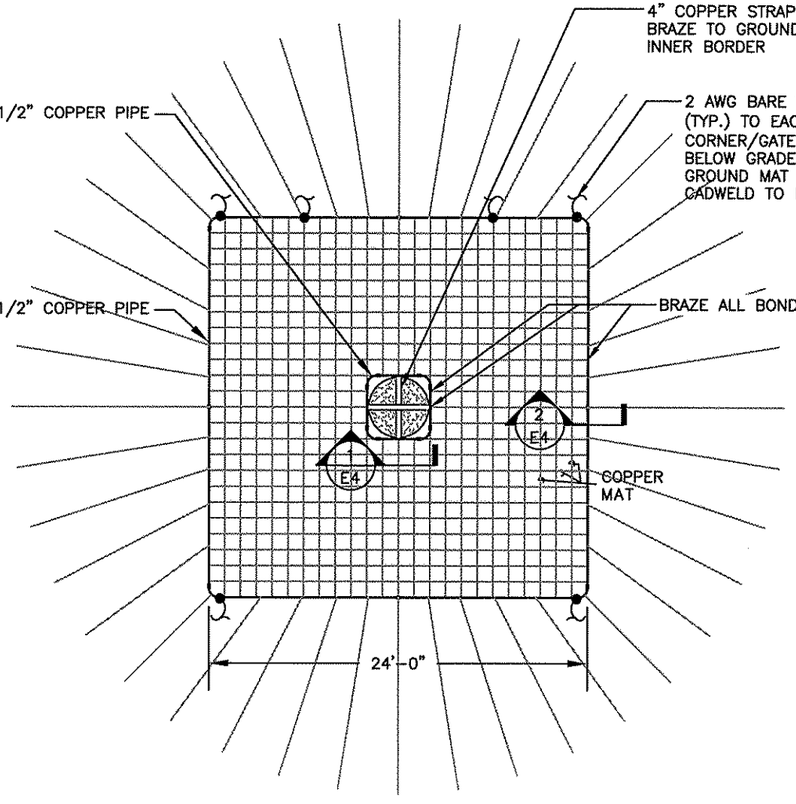
| REVISIONS | | | |
|---|---|---|---|
| NO. | DATE | DESCRIPTION | BY |
| 0 | 6/11/09 | PERMIT/CONSTRUCTION | JCH |

MAYWOOD AVE TOWER
649 MAYWOOD AVE
RALEIGH, NC
WAKE COUNTY

SHEET TITLE
SINGLE-LINE DIAGRAM

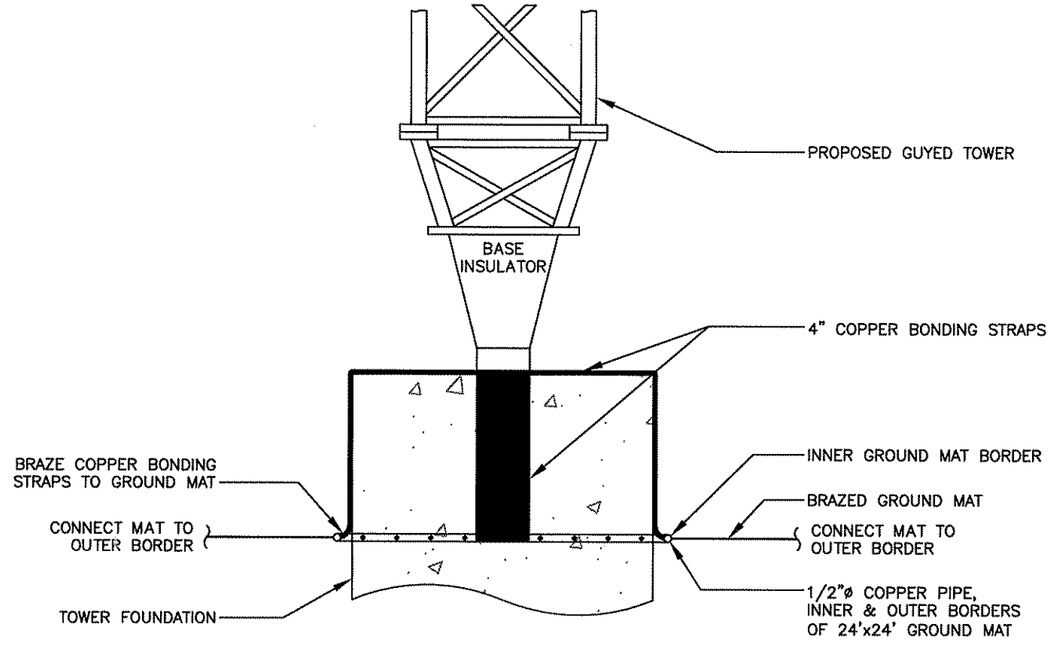
SHEET NUMBER
E-3

This document, together with the concepts and designs presented herein, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc., shall be without liability to Kimley-Horn and Associates, Inc.
Copyright Kimley-Horn and Associates, Inc., 2009



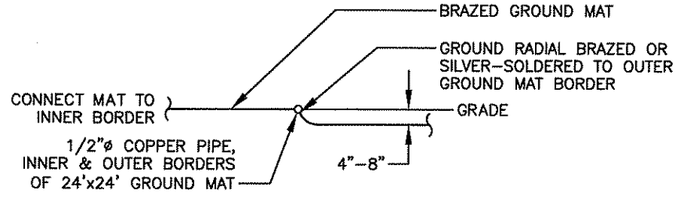

## GROUNDING MAT DETAIL

SCALE: NOT TO SCALE




1/E4 TOWER AND INNER MAT GROUNDING DETAIL

SCALE: NOT TO SCALE




2/E4 RADIAL AND OUTER MAT GROUNDING DETAIL

SCALE: NOT TO SCALE

APOGEE
Consulting Group, PA
7330 Chapel Hill Road Suite 202
Raleigh, N.C. 27607
N.C. License # C-1848
(919) 858-7420 Fax (919) 858-7423
ACG PROJECT NO.: 2009 049

**CURTIS MEDIA GROUP**
3012 HIGHWOODS BLVD.
RALEIGH, NC 27604
USA

Kimley-Horn
and Associates, Inc.
Post Office Box 33068
Raleigh, North Carolina 27636
KHA JOB #: 012928002

DRAWN BY: JCH
CHECKED BY: JDC
DRAWING DATE: 6/11/2009

NORTH CAROLINA PROFESSIONAL SEAL 33867 6/11/09 ENGINEER JOHN D. CALHOUN

| REVISIONS NO. | DATE | DESCRIPTION | BY |
|---|---|---|---|
| 0 | 6/11/09 | PERMIT/CONSTRUCTION | JCH |

**MAYWOOD AVE TOWER**
649 MAYWOOD AVE
RALEIGH, NC
WAKE COUNTY

SHEET TITLE
**ELECTRICAL DETAILS**

SHEET NUMBER
**E-4**

This document, together with the concepts and designs presented herein, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc., shall be without liability to Kimley-Horn and Associates, Inc.
Copyright Kimley-Horn and Associates, Inc., 2009

## GENERAL NOTES:

1–ALL WORK SHALL CONFORM TO THE NATIONAL ELECTRICAL CODE, STATE BUILDING CODES AND THE LOCAL BUILDING CODES. ALL COMPONENTS SHALL BE U.L. LISTED.

2–REFER TO SITE LAYOUT PLAN FOR THE EXACT LOCATION OF H–FRAME.

3–CONTRACTOR TO LOCATE RACK TO ENSURE WORKING SPACES REQUIRED BY THE NEC (ART. 110.26), STATE, OR LOCAL CODES ARE MAINTAINED BOTH ON THE FRONT SIDE AND THE BACK SIDE OF THE H–FRAME.

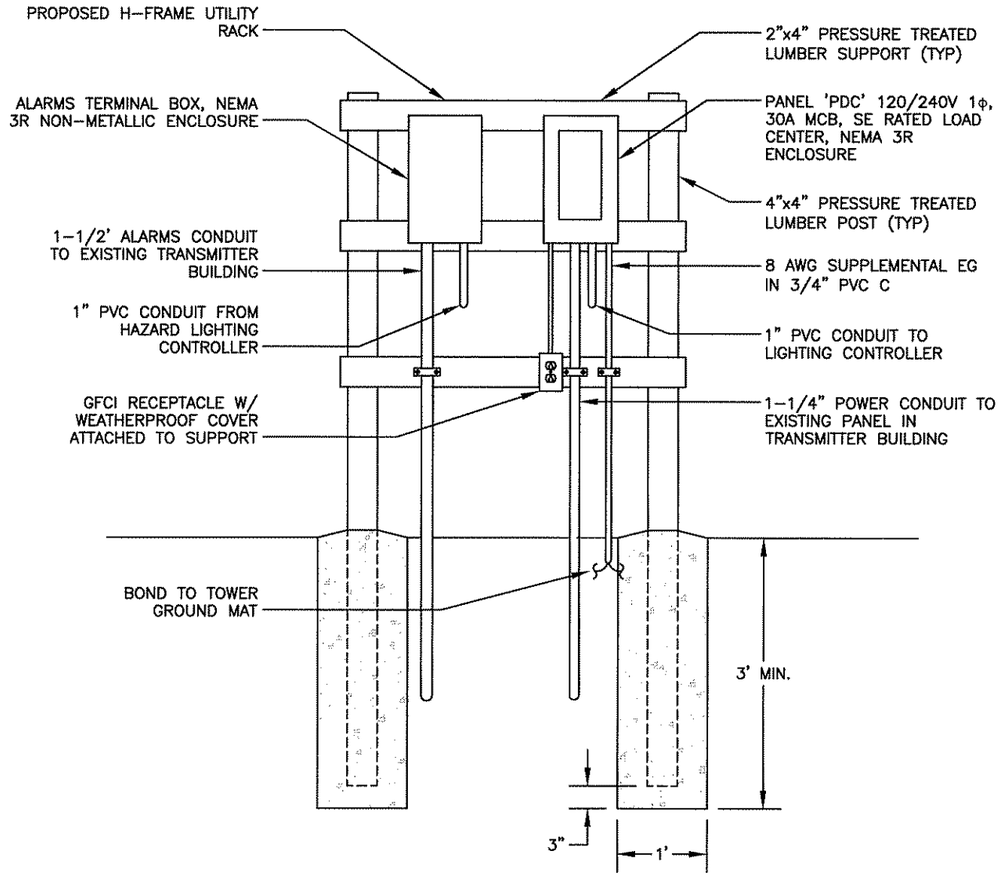
4–SHOW LOCATION (INCLUDING DIMENSIONS) OF ALL CAPPED UNDERGROUND CONDUIT ON FINAL AS–BUILT DRAWINGS SUBMITTED TO OWNER.

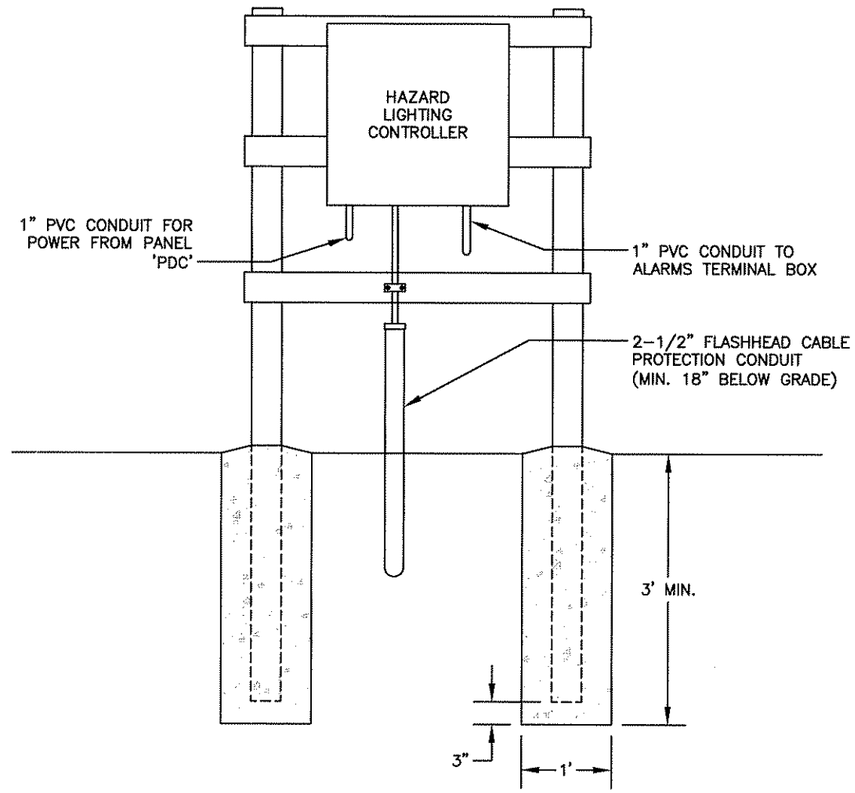
5–COORDINATE EXACT LOCATION OF UNDERGROUND FEEDERS AND CIRCUITRY WITH THE OWNER.

6–CONTRACTOR SHALL COORDINATE EFFORTS WITH (LOCAL, ELECTRICAL) AUTHORITY HAVING JURISDICTION (AHJ) AND OTHER TRADES TO DETERMINE "FROST" LINE, AND TYPE(S) OF RACEWAYS REQUIRED FOR INSTALLATION.

7–DIMENSIONS SHOWN ARE APPROXIMATE AND MAY BE ALTERED IN THE FIELD AS APPROVED BY OWNER TO BETTER SUIT ACTUAL CONDITIONS OR EQUIPMENT RECEIVED.

8–FOR ANY METAL CONDUIT ENTERING AN ENCLOSURE WHERE A PRE–PUNCHED CONCENTRIC OR ECCENTRIC KNOCKOUT IS USED, THE CONTRACTOR SHALL ENSURE ADEQUATE BONDING BETWEEN THE METAL CONDUIT AND ENCLOSURE BY INSTALLING A BONDING JUMPER AROUND THE CONCENTRIC OR ECCENTRIC KNOCKOUT.




NOTE:
CONSTRUCT SO CONCRETE FOOTING EXTENDS 6" BELOW FROST LINE AND IN COMPLIANCE WITH ALL LOCAL AND STATE CODES.

1/E5 H–FRAME DETAIL

SCALE: NOT TO SCALE


APOGEE
Consulting Group, PA
7330 Chapel Hill Road Suite 202
Raleigh, N.C. 27607
N.C. License # C-1848
(919) 858-7420 Fax (919) 858-7423
ACG PROJECT NO.: 2009 049

CURTIS MEDIA GROUP
3012 HIGHWOODS BLVD.
RALEIGH, NC 27604
USA

Kimley-Horn and Associates, Inc.
Post Office Box 33068
Raleigh, North Carolina 27636
KHA JOB #: 012928002


DRAWN BY: JCH
CHECKED BY: JDC
DRAWING DATE: 6/11/2009

NORTH CAROLINA PROFESSIONAL SEAL 33867 ENGINEER JOHN D. CALHOUN 6/11/09

| REVISIONS NO. | DATE | DESCRIPTION | BY |
|---|---|---|---|
| 0 | 6/11/09 | PERMIT/CONSTRUCTION | JCH |

MAYWOOD AVE TOWER
649 MAYWOOD AVE
RALEIGH, NC
WAKE COUNTY

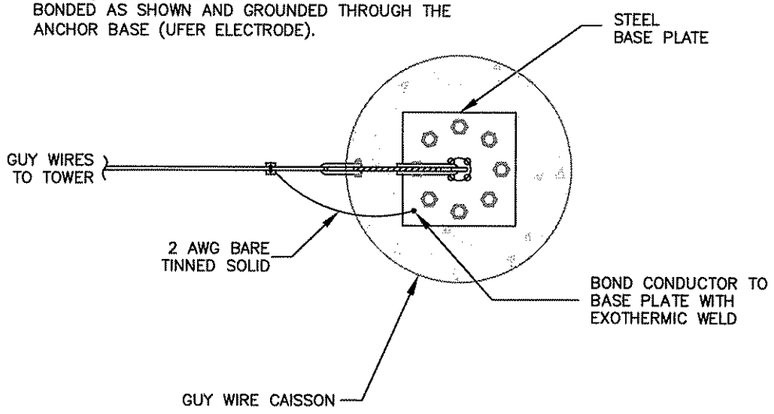
SHEET TITLE
H-FRAME DETAILS

SHEET NUMBER
E-5


This document, together with the concepts and designs presented herein, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley–Horn and Associates, Inc., shall be without liability to Kimley–Horn and Associates, Inc.

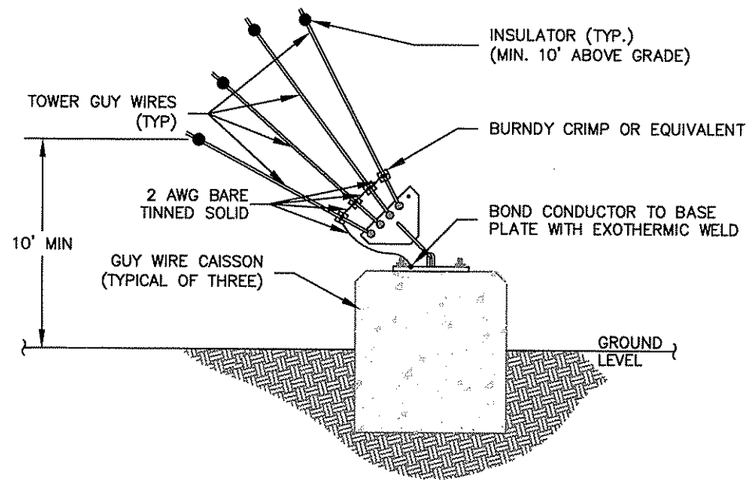
Copyright Kimley–Horn and Associates, Inc., 2009

NOTES:
1. GUY WIRE INSULATORS SHALL BE AT LEAST 10' ABOVE GRADE.
2. GUY WIRE SECTIONS WITHIN 10' OF GRADE, ANCHOR PLATES, AND CONNECTING HARDWARE SHALL BE BONDED AS SHOWN AND GROUNDED THROUGH THE ANCHOR BASE (UFER ELECTRODE).



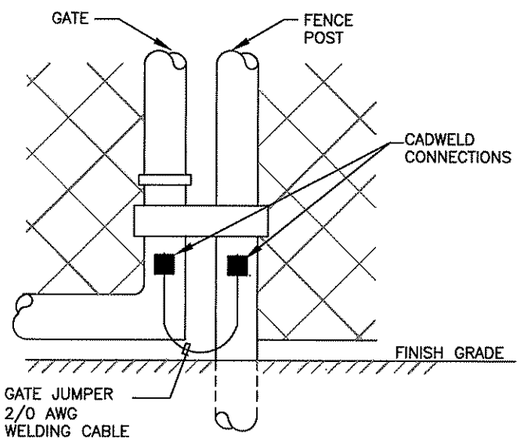

1 / E6 GUY ANCHOR DETAIL

SCALE: NOT TO SCALE



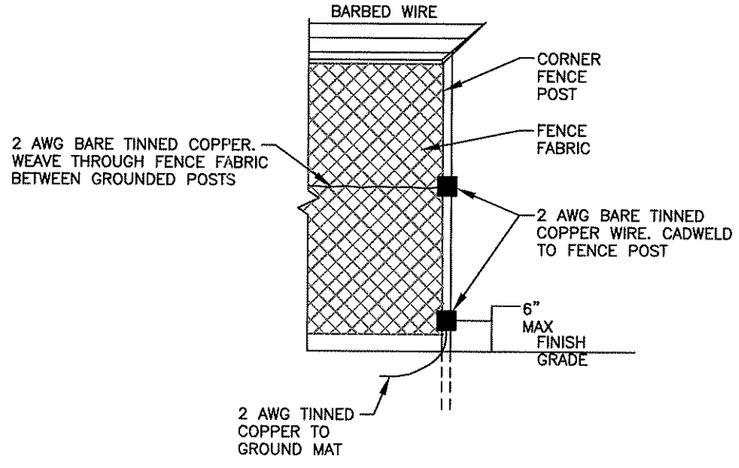

2 / E6 GUY ANCHOR ELEVATION DETAIL

SCALE: NOT TO SCALE




3 / E6 GATE GROUNDING DETAIL

SCALE: NOT TO SCALE




4 / E6 GATE GROUNDING DETAIL

SCALE: NOT TO SCALE

APOGEE
Consulting Group, PA
7330 Chapel Hill Road Suite 202
Raleigh, N.C. 27607
N.C. License # C-1848
(919) 858-7420 Fax (919) 858-7423
ACG PROJECT NO.: 2009 049

CURTIS MEDIA GROUP
3012 HIGHWOODS BLVD.
RALEIGH, NC 27604
USA

Kimley-Horn
and Associates, Inc.
Post Office Box 33068
Raleigh, North Carolina 27636
KHA JOB #: 012928002

DRAWN BY: JCH
CHECKED BY: JDC
DRAWING DATE: 6/11/2009

NORTH CAROLINA PROFESSIONAL SEAL 33867 ENGINEER JOHN D. CALHOUN 6/11/09

| REVISIONS | | |
|---|---|---|
| NO. | DATE | DESCRIPTION |
| 0 | 6/11/09 | PERMIT/CONSTRUCTION |

BY: JCH

MAYWOOD AVE TOWER
649 MAYWOOD AVE
RALEIGH, NC
WAKE COUNTY

SHEET TITLE
ELECTRICAL DETAILS

SHEET NUMBER
E-6

This document, together with the concepts and designs presented herein, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc., shall be without liability to Kimley-Horn and Associates, Inc.

Copyright Kimley-Horn and Associates, Inc., 2009

**City of Raleigh, NC**
**Development Plans Review Center**
P. O. Box 590, Raleigh, N. C. 27602
Telephone: (919) 516-2626 FAX: (919) 516-2684
www.raleighnc.gov

# SPECIAL USE PERMIT APPLICATION

FOR PUBLIC HEARING AND APPROVAL BY THE CITY COUNCIL

## *Section A.*

*SUBMITTAL CHECKLIST*

***AT THE TIME YOU SUBMIT YOU MUST VERIFY WITH A DEVELOPMENT PLANS REVIEW CENTER STAFF MEMBER THE PARCEL OR PARCELS THAT ARE THE SUBJECT OF YOUR PLAN, AND THE STAFF MEMBER WILL CHECK YOUR APPLICATION MATERIALS FOR COMPLETION.***

***THIS IS AN IMPORTANT STEP THAT WILL ENSURE THAT YOUR PLAN CAN BE REVIEWED AND APPROVED IN THE MINIMUM TIME POSSIBLE, SO PLEASE PLAN ON SPENDING A FEW MINUTES WITH US AT THE TIME YOU SUBMIT. PLEASE DO NOT SIMPLY LEAVE YOUR APPLICATION MATERIALS ON THE DESK.***

***PLEASE CALL AHEAD FOR AN APPOINTMENT IF YOU WISH THE MOST PROMPT SERVICE WHEN YOU ARRIVE.***

***PLEASE INCLUDE ALL OF THE FOLLOWING (CHECK OFF).*** *If any information is missing from the application package, you will be asked to complete the application and re-submit the petition, so please check the list below carefully before you submit:*

☐ **$206 FILING FEE.** Checks may be made out to the City of Raleigh. Payments may be made by cash or by check, but not by credit cards.

☐ **THREE ORIGINALS OF THIS APPLICATION FORM** completed (Section B), **signed** by the property and **notarized.**

☐ **THREE COPIES OF PROPOSED PLANS.** Maximum sheet size shall be 30" x 42". Plans must be to engineering scale (1" = 20', 1" =100', etc.). Preliminary plans do not need an engineer's, surveyor's or landscape architect's seal. Information shown on the plan should relate to the findings that must be made by the City Council to grant this special use request. See Section 10-2145 or applicable parts of Chapter 12 of the Raleigh City Code for specific findings the Council is to make for this special use.

☐ ***NEW !*** **A DIGITAL COPY OF ONLY THE PLAN LAYOUT AND ELEVATIONS.**
The purpose of this image is to illustrate the basic character of the preliminary plan. It should contain only such basic information as: building outline, landscaping, parking and drives, stormwater facilities, lot boundary. The digital image should be provided in the form of **pdf** on a CD. If the plan was not digitally created, provide an 8 ½" x 11" reduction of the plan.

***PROCEDURE FOR HEARING AND APPROVAL OF A SPECIAL USE PERMIT BY CITY COUNCIL:***

It is very important that this application be complete, the adjacent property owners list be accurate, and the signature of the property owner be notarized! A special use hearing is a quasi-judicial proceeding, and the special use permit may be invalidated if any information is inaccurate or incomplete.

If a preliminary site plan is submitted for approval along with this special use request, both plans will be forwarded to City Council approx. 6 weeks from submittal. If only the special use permit is being requested the case will be heard by City Council approx. 4 weeks from submittal.

You, or your representative must be present at the hearing to present the case for issuance of the special use permit. You will be notified as to the time and place of the proceeding. City staff will provide a written draft set of findings for the Council to consider. A coordinating planner will contact you and will provide a draft of the special use findings for you prior to the hearing.

## *Section B.*

*SUMMARY INFORMATION - (SHOW ON PLAN)*

**DEVELOPMENT NAME:** Triangle Broadcast Associates, LLC
**LOCATION:** South Side of Maywood Avenue, East of Lake Wheeler Road

**SHOW WAKE COUNTY PROPERTY IDENTIFICATION NUMBER(S) ON PLAN. SUBMIT PIN MAP. SEE SUBMITTAL CHECKLIST ON FRONT PAGE.**

**ZONING DISTRICT:** Industrial-2 **TOTAL SITE ACRES:** 6.06

**SPECIAL USE PERMIT REQUESTED:**

- ■ Telecommunication tower.
- ☐ Correctional / Penal facility.
- ☐ Additional Density in O&I, TC, SC Districts.
- ☐ Outdoor Stadium (more than 250 seats).
- ☐ Amplified Music (indoor / outdoor) (Code section 12-2120)
- ☐ Parking facility in a residential district.
- ☐ Recreation use (membership) in primary watershed
- ☐ Recreation use (government) or camp (non-profit) in Primary watershed

**OWNER / DEVELOPER:**

NAME(S): Triangle Broadcast Associates, LLC
ADDRESS: 3012 Highwoods Boulevard, Suite 201, Raleigh, NC 27604
TELEPHONE: (919) 790-9392 FAX: (919) 790-6654
E-MAIL ADDRESS:

**PERSON TO CONTACT REGARDING STAFF COMMENTS OR QUESTIONS ABOUT THE PLANS:**

NAME(S): Allen Sherrill
ADDRESS: 3012 Highwoods Blvd., Suite 201, Raleigh, NC 27604
TELEPHONE: (919) 882-3730 FAX: (919) 790-8369
E-MAIL ADDRESS:

**THE OWNERSHIP OF THIS PROPERTY IS EVIDENCED BY DEED FROM:** Mortensen Broadcasting Company of Canton, LLC

**AND RECORDED IN THE WAKE COUNTY REGISTRY, BOOK** 8335 **PAGE** 1772

**OWNER'S SIGNATURE:**

*I hereby certify that the information contained herein is true and complete; and I understand that if any item is found to be otherwise after evidentiary hearing before the City Council, that the action of the Council may be invalidated.*

Date: 7/22/10 Signed: Triangle Broadcast Associates, LLC

STATE OF NC
COUNTY OF WAKE

By: _____ Manager

*I, a Notary Public, do hereby certify that* Lori D Van Stone *personally appeared before me this day and acknowledged the due execution of the foregoing instrument. This the* 22 *day of* July, 2010. *My commission expires:* 11/8/11

*Signed:* Lori D Van Stone

Lori D Van Stone
Notary Public
Wake County NC
My Commission Expires 11 / 8 / 11

*SEAL*

## *Section C.*

*APPLICANT'S STATEMENT*

The zoning ordinance imposes the following SPECIFIC REQUIREMENTS before a special use permit may be issued. Please address each of the specific requirements noted in Section 10-2145 of the Raleigh Cite Code, in the area below as it relates to your request. The Development Plans Review Center staff can assist in listing the specific requirements. The applicant should be prepared to demonstrate that, if the land is used in a manner consistent with the plans, specifications and other information presented to City Council, the proposed use will comply with each of the following specific requirements (You may attach additional sheets if necessary):

See Exhibit A attached hereto.

## Section D.

*ADJACENT PROPERTY OWNERS (Attach additional sheets if necessary)*
*Include all properties immediately adjacent to or directly opposite across the street from the subject property.*

| Property ID No. | Property Owner | Mailing Address | Zip Code |
|---|---|---|---|
| 1703127331 | Davis, George H. & Linda B. Annas | 656 Maywood Ave. #A, Raleigh, NC | 27603-2340 |
| 1703128278 | ELH Trust | 319 Morrison Ave., Raleigh, NC | 27608-2537 |
| 1703220245 | ELH Trust | 319 Morrison Ave., Raleigh, NC | 27608-2537 |
| 1703127006 | Baker, W. Prentiss & Joan M. | 1615 Oberlin Rd., Raleigh, NC | 27608-2039 |
| 1703116256 | Baker, W. Prentiss III & Joan M. | 1615 Oberlin Rd., Raleigh, NC | 27608-2039 |
| 1703210713 | Triangle Broadcast Associates LLC | 3012 Highwoods Blvd., Ste. 201, Raleigh, NC | 27604-1031 |
| 1703212634 | Maywood Properties LLC | 1 Cypress St., Hollidaysburg, PA | 16648-2705 |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

## EXHIBIT A

### Applicant's Statement

This Application involves the parcel of 6.06 acres on the south side of Maywood Avenue, east of Lake Wheeler Road, which is assigned PIN 703-11-7788 (the "Parcel"). The Parcel is currently the site of a radio transmission tower (the "Existing Tower") which is 280 feet in height. The Existing Tower is a legal non-conforming use. The Applicant desires to replace the Existing Tower with a new tower (the "New Tower") of the same height. Both the Existing Tower and the New Tower are shown on the site plan (the "Site Plan") submitted with this Application. The New Tower will serve the same function as the Existing Tower, which broadcasts the radio signal of Radio Stations WQDR-AM and WCLY-AM.

The Applicant provides the following with regard to the specific requirements of Section 10-2145 of the City Code for the issuance of a Special Use Permit for a Telecommunication Tower.

(1) As will be established by expert testimony at the hearing of this matter, the New Tower will not disturb or diminish radio or television or similar reception for adjoining properties.

(2) The height of the New Tower will be 280 feet, which does not exceed 510 feet.

(3) The lighting of the New Tower will not exceed the minimum standards of the Federal Aviation Administration for a red obstruction lighting system as contained in Advisory Circular No. N70/7460-IF dated September 27, 1978, as amended.

(4) With regard to minimum yard setback,

a. the yard setback exceeds the minimum of 20 feet on the north, west, and south boundaries of Parcel. Such boundaries adjoin or are across a public street from lots zoned Industrial-2 District, a non-residential district, and that are either vacant or developed without a dwelling, congregate care, or congregate living structure.

b. the yard setback from the outside dimensions of the New Tower to Parcel PIN 1703-21-2634, which is to the east of the Parcel and is zoned Residential-10 CUD, is 222 feet. This distance is less than the 280 foot height of the New Tower, but grounds exist to support a determination by the City Council that the yard setback of 222 feet will not be injurious to property or improvements in the affected area. The reduction in setback will have very little, if any, impact upon the visibility of the Tower from the parcel zoned R-10 CUD. Further, at the hearing of this matter, engineering evidence will show that in the event of a collapse of the New Tower, no portion of the New Tower would fall outside the boundaries of the Parcel.

(5) As shown on the Site Plan, the base of the New Tower and each guy anchor is surrounded by a fence at least eight feet in height. Except for their entrances, all fences upon the

Parcel will be screened with plant materials so that no more than two-thirds of the surface of the fence will be visible within three years after erection of the New Tower from a public street or any adjoining lot zoned a residential district.

(6) A street protective yard of at least 20 feet in width measured perpendicular to the street right-of-way will be maintained along the boundary of the Parcel with the right of way of Maywood Avenue. This street protective yard will comply with the requirements of Section 10-2082.5 of the City Code. The Parcel does not adjoin any lot containing a dwelling, congregate care, or congregate living structure or zoned a residential district.

(7) The output power from the New Tower shall not exceed federally-approved levels for exposure to electronic magnetic force ("EMF").

(8) The Applicant is not aware of any determination by the City that the new Tower is situated in a location which will benefit the City's telecommunications systems.

(9) The proposed location of the New Tower is not within 1,000 feet of a tower greater than 100 feet in height.

(10) The New Tower is not located within an Historic Overlay District or Metro Park Protection Overlay District.

(11) The New Tower will be utilized to broadcast the signal of Radio Stations WQDR-AM and WCLY-AM.

(12) As shown on the Site Plan, at least 600 square feet has been reserved on the site for each telecommunication user for associated buildings and equipment or evidence will be offered at the hearing that less space is necessary.

(13) With this Application, the Applicant shall provide evidence that the New Tower meets FAA requirements and is in accordance with all tower requirements and standards of the Raleigh Durham Airport Authority.

(14) The Parcel is not zoned a residential district.

(15) The Existing Tower has operated for a number of years safely and in harmony with the surrounding area. The New Tower will be the same height as the Existing Tower and will be situated similarly upon the Parcel. Accordingly, the New Tower will not be injurious to property or improvements in the affected area.

(16) Within six months of the approval of the Special Use Permit for the New Tower, a grading permit, building permit or zoning permit will be obtained and within one year of such approval the New Tower will be installed and operational.