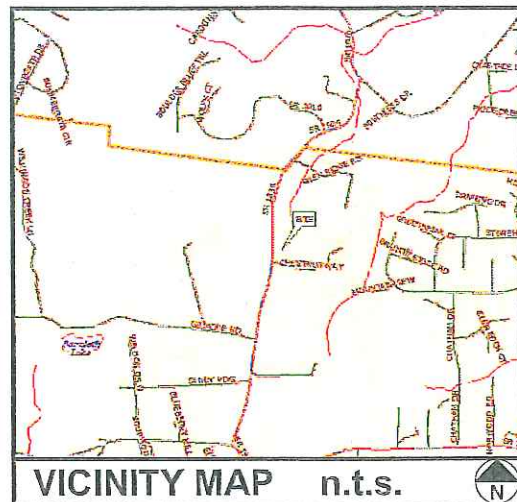


Tab 8



VICINITY MAP n.t.s.

NOTES:

1. This plan was prepared without the benefit of a report of title.
2. This plan does not represent a title survey.
3. The basis of the bearings and coordinates for this plan is the North Carolina State Plane Coordinate System, North American Datum (NCSPCS/NAD 83) based on differential GPS observations performed on April 23, 2013 and tied to the National CORS system via the OPUS utility and expressed in US Survey Feet.
4. Vertical information shown, based on the North American Vertical Datum of 1988 (NAVD '88) in US Survey Feet.
5. Property lines are drawn from information found in Deed Book 1437, Page 670, of the Chatham County Register of Deeds records.
6. All distances are ground unless otherwise noted.
7. This property is located in flood zone "X", areas determined to be outside 0.2% chance of annual flood. (FEMA Community Panel # 3710976600J, effective February 2, 2007).
8. Lessee Information:
American Tower Corporation
400 Regency Forest Drive
Cary, NC 27511
9. Property Information:
James & Jane Womble
189 Chestnut Way
Chapel Hill, NC 27516

1A CERTIFICATE

LATITUDE: N 35° 51' 28.053" (NAD '27)
LONGITUDE: W 79° 07' 22.358" (NAD '27)

LATITUDE: N 35° 51' 28.572" (NAD '83)
LONGITUDE: W 79° 07' 21.404" (NAD '83)

GROUND ELEV. (AMSL): 580.1'± (NAVD '88)

SITE SURVEY

SCALE: 1" = 400'

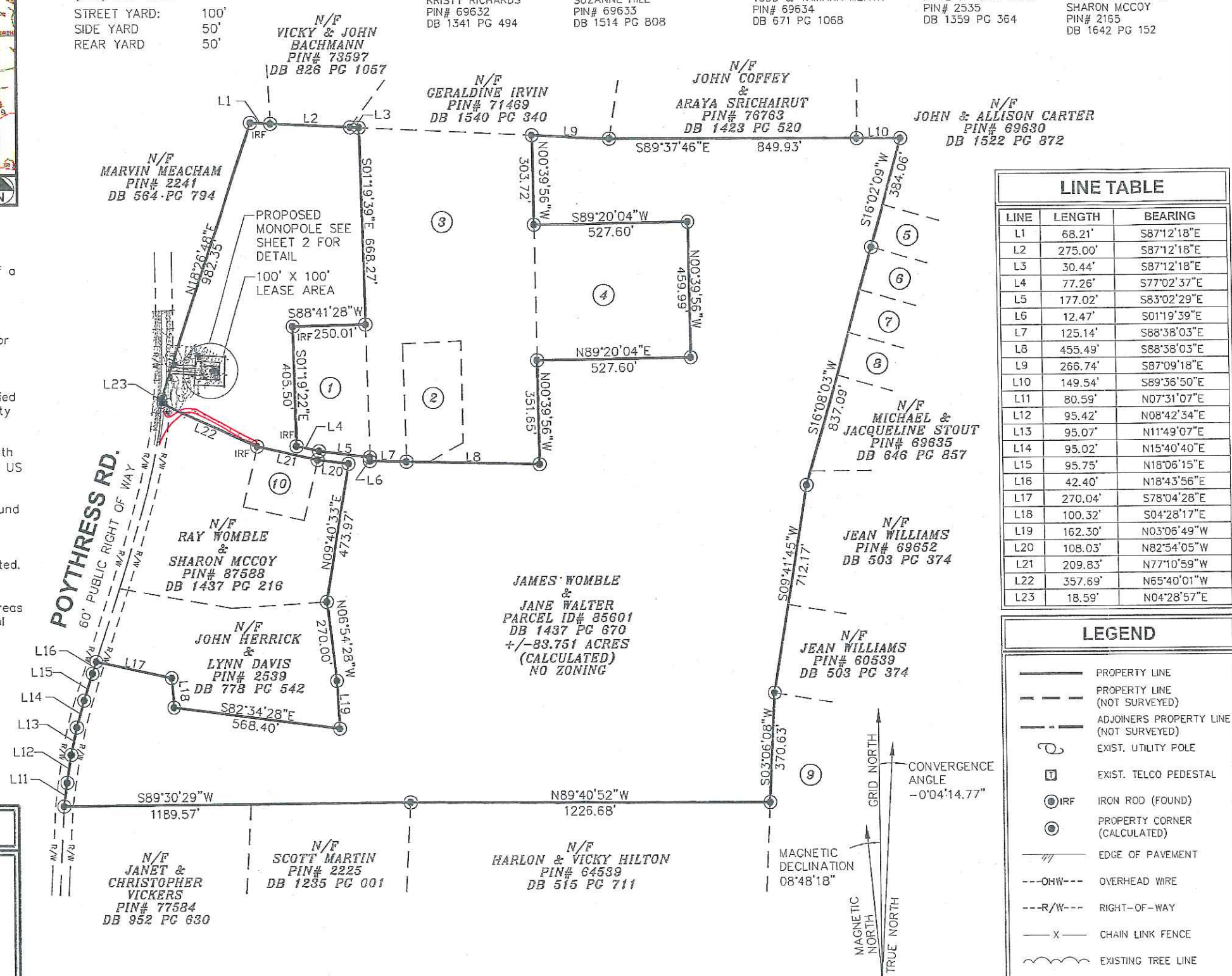
BUILDING SETBACKS

BUILDING SETBACKS ARE FOR PARCEL (ZONED R2), PER CHATHAM COUNTY PLANNING (919) 542-8204

STREET YARD: 100'
SIDE YARD: 50'
REAR YARD: 50'

ADJOINER INFO:

1. N/F KAREN BRUSCHKE & MICHAEL WOMBLE
PIN# 88065
DB 1493 PG 1061
2. N/F JAMES & LOLA WOMBLE
PIN# 2164
DB 357 PG 81
3. N/F JAMES & JANE WOMBLE
PIN# 79653
DB 928 PG 16
4. N/F COLEEN BREWER
PIN# 2163
DB 1423 PG 520
5. N/F DANIEL & JENNIFER GARDNER
PIN# 69631
DB 1069 PG 1089
6. N/F KRISTY RICHARDS
PIN# 69632
DB 1341 PG 494
7. N/F SUZANNE HILL
PIN# 69633
DB 1514 PG 808
8. N/F TODD & TAMARA MEATH
PIN# 69634
DB 671 PG 1068
9. N/F KAYE & JOHN MANN
PIN# 2535
DB 1359 PG 364
10. N/F STEVEN WOMBLE & SHARON MCCOY
PIN# 2165
DB 1642 PG 152



LINE TABLE

LINE	LENGTH	BEARING
L1	68.21'	S87°12'18"E
L2	275.00'	S87°12'18"E
L3	30.44'	S87°12'18"E
L4	77.26'	S77°02'37"E
L5	177.02'	S83°02'29"E
L6	12.47'	S01°19'39"E
L7	125.14'	S88°38'03"E
L8	455.49'	S88°38'03"E
L9	266.74'	S87°09'18"E
L10	149.54'	S89°36'50"E
L11	80.59'	N07°31'07"E
L12	95.42'	N08°42'34"E
L13	95.07'	N11°49'07"E
L14	95.02'	N15°40'40"E
L15	95.75'	N18°06'15"E
L16	42.40'	N18°43'56"E
L17	270.04'	S78°04'28"E
L18	100.32'	S04°28'17"E
L19	162.30'	N03°06'49"W
L20	108.03'	N82°54'05"W
L21	209.83'	N77°10'59"W
L22	357.69'	N65°40'01"W
L23	18.59'	N04°28'57"E

LEGEND

- PROPERTY LINE
- PROPERTY LINE (NOT SURVEYED)
- ADJOINERS PROPERTY LINE (NOT SURVEYED)
- EXIST. UTILITY POLE
- EXIST. TELCO PEDESTAL
- IRON ROD (FOUND)
- PROPERTY CORNER (CALCULATED)
- EDGE OF PAVEMENT
- OVERHEAD WIRE
- RIGHT-OF-WAY
- CHAIN LINK FENCE
- EXISTING TREE LINE

0 400 800
SCALE IN FEET

PREPARED FOR:



PROJECT INFORMATION:

AT&T SITE # 368-545
ATC SITE # 280373
MEACHAM NC

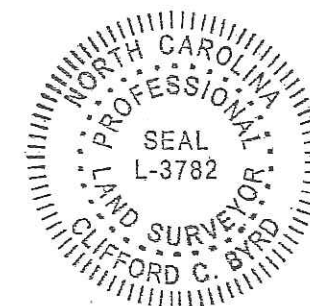
POYTHRESS ROAD
CHAPEL HILL, NC 27516
(CHATHAM COUNTY)

PREPARED BY:

TOWER ENGINEERING PROFESSIONALS
3703 JUNCTION BOULEVARD
RALEIGH, NC 27603-5263
(919) 661-6351
NC LICENSE NO. C-1794

SURVEYOR CERTIFICATE

I, CLIFFORD BYRD, CERTIFY THIS PLAT WAS DRAWN UNDER MY SUPERVISION FROM AN ACTUAL SURVEY BY ME OR UNDER MY DIRECT SUPERVISION, (DEED DESCRIPTION RECORDED IN BOOK AND PAGE AS REFERENCED HEREON); THAT THE BOUNDARIES NOT SURVEYED ARE CLEARLY INDICATED AS BROKEN LINES, DRAWN FROM INFORMATION FOUND IN BOOK AND PAGE AS REFERENCED HEREON; THAT RATIO OF PRECISION AS CALCULATED IS 1: 10,000 OR GREATER; THAT THE AREA IS COMPUTED BY COORDINATE METHOD; THAT THIS PLAT WAS PREPARED IN ACCORDANCE WITH G.S.47-30 AS AMENDED. WITNESS MY ORIGINAL SIGNATURE, REGISTRATION NUMBER AND SEAL, THIS 23 DAY OF MAY, 2013.



NORTH CAROLINA PLS # L-3782
CLIFFORD C. BYRD

SHEET TITLE:

SITE SURVEY

DATE: 05/23/2013 REVISION: 0
SHEET #: 1 OF 2 TEP #: 131501

LEGAL DESCRIPTION OF LEASE AREA PARCEL "A"

ALL THAT CERTAIN LEASE AREA PARCEL OF LAND, SITUATE, LYING AND BEING IN CHATHAM COUNTY, NORTH CAROLINA, BEING A PORTION OF THE LANDS DESCRIBED IN DEED BOOK 1437 AT PAGE 670 OF THE CHATHAM COUNTY REGISTER OF DEEDS AND BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS: COMMENCING AT EXISTING IRON AT THE EASTERN RIGHT OF WAY OF POYTHRESS RD., SAID IRON BEING LOCATED AT THE WESTERN LIMITS OF THE PARCEL DESCRIBED IN DEED BOOK 1437 AT PAGE 670, SAID IRON HAVING NORTH CAROLINA STATE PLANE COORDINATES OF NORTHING = 767,243.19', AND EASTING = 1,963,540.95'; THENCE FROM THE POINT OF COMMENCEMENT, NORTH 77°31'30" EAST, A DISTANCE OF 78.43 FT. TO A POINT ON THE NORTHWEST CORNER OF THE DESCRIBED 100' X 100' LEASE AREA, SAID POINT BEING THE TRUE POINT OF BEGINNING, AND HAVING NORTH CAROLINA STATE PLANE COORDINATES OF NORTHING = 767,260.13', AND EASTING = 1,963,617.52'; THENCE FROM THE POINT OF BEGINNING SOUTH 87°31'47" EAST, A DISTANCE OF 100.00 FT. TO A POINT; THENCE SOUTH 02°28'13" WEST FOR A DISTANCE OF 100.00 FT. TO A POINT; THENCE NORTH 87°31'47" WEST FOR A DISTANCE OF 100.00 FT. TO A POINT. THENCE NORTH 02°28'13" EAST FOR A DISTANCE OF 100.00 FT. TO THE POINT OF BEGINNING. SAID LEASE AREA CONTAINING 10,000 SQ. FT. OR 0.23 ACRES MORE OR LESS.

LEGAL DESCRIPTION OF 30' ACCESS AND UTILITY EASEMENT PARCEL "B"

ALL THAT CERTAIN EASEMENT AREA PARCEL OF LAND, SITUATE, LYING AND BEING IN CHATHAM COUNTY, NORTH CAROLINA, BEING A PORTION OF THE LANDS DESCRIBED IN DEED BOOK 1437 AT PAGE 670 OF THE CHATHAM COUNTY REGISTER OF DEEDS AND BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS: COMMENCING AT EXISTING IRON AT THE EASTERN RIGHT OF WAY OF POYTHRESS RD., SAID IRON BEING LOCATED AT THE WESTERN LIMITS OF THE PARCEL DESCRIBED IN DEED BOOK 1437 AT PAGE 670, SAID IRON HAVING NORTH CAROLINA STATE PLANE COORDINATES OF NORTHING = 767,243.19', AND EASTING = 1,963,540.95'; THENCE FROM THE POINT OF COMMENCEMENT, AND WITH SAID RIGHT OF WAY, SOUTH 19°25'12" WEST A DISTANCE OF 14.88 FT. TO A POINT ON THE EASTERN RIGHT OF WAY OF POYTHRESS ROAD, SAID POINT BEING THE TRUE POINT OF BEGINNING OF A DESCRIBED 30' ACCESS AND UTILITY EASEMENT, AND HAVING NORTH CAROLINA STATE PLANE COORDINATES OF: NORTHING= 767,229.16'; AND EASTING=1,963,536.00'; THENCE FROM THE POINT OF BEGINNING, AND LEAVING SAID RIGHT OF WAY, SOUTH 87°13'36" EAST A DISTANCE OF 80.11 FT. TO A POINT; THENCE SOUTH 02°28'13" WEST A DISTANCE OF 30.00 FT. TO A POINT; THENCE NORTH 87°13'36" WEST A DISTANCE OF 80.32 FT. TO A POINT; THENCE NORTH 02°51'36" EAST A DISTANCE OF 30.00 FT. TO THE POINT OF BEGINNING. SAID EASEMENT AREA PARCEL CONTAINING 2406 SQ. FT. OR 0.06 ACRES MORE OR LESS.

LEGEND

PROPERTY LINE

PROPERTY LINE (NOT SURVEYED)

ADJOINERS PROPERTY LINE (NOT SURVEYED)

EXIST. UTILITY POLE

EXIST. TELCO PEDESTAL

IRON ROD (FOUND)

PROPERTY CORNER (CALCULATED)

EDGE OF PAVEMENT

OVERHEAD WIRE

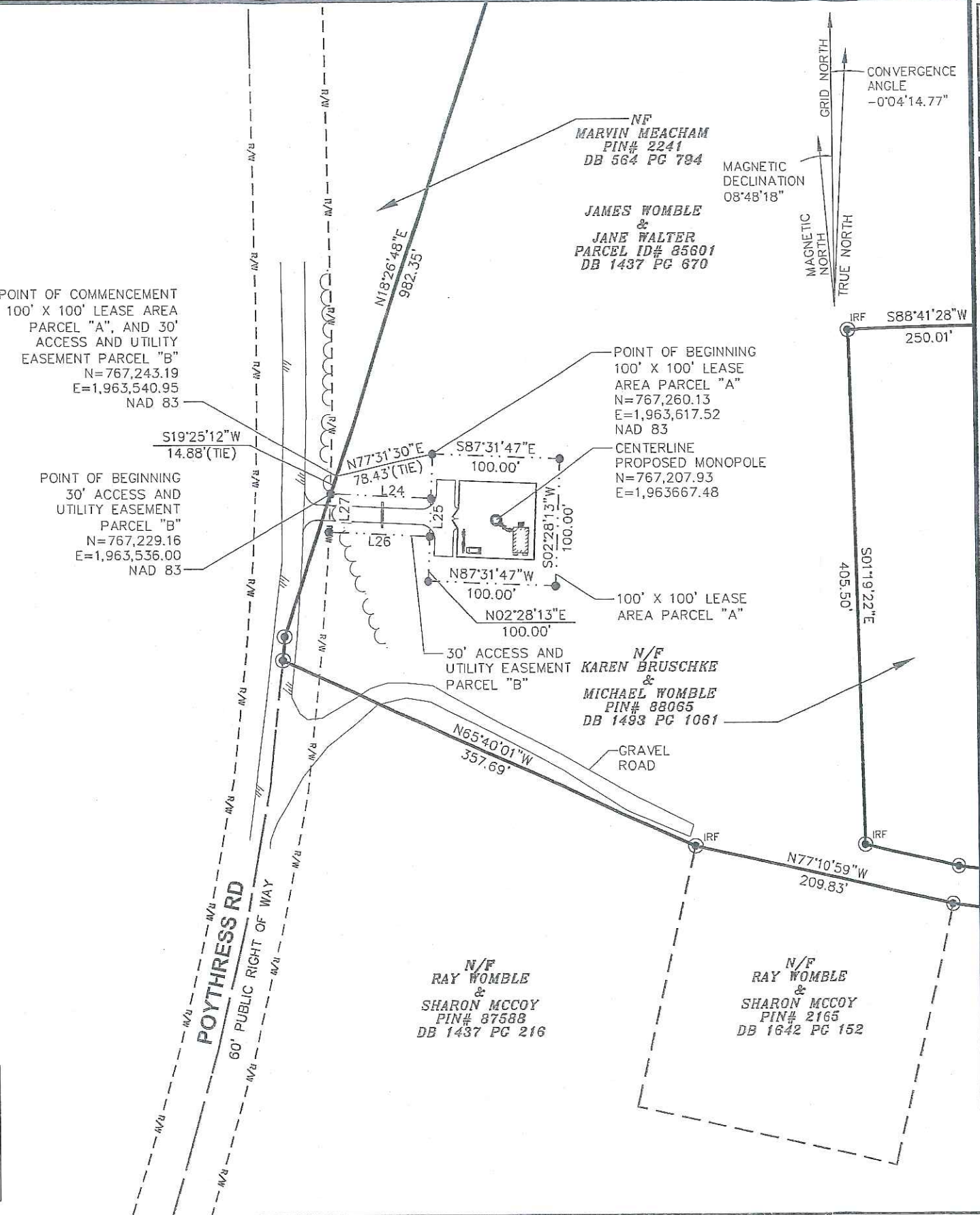
RIGHT-OF-WAY

CHAIN LINK FENCE

EXISTING TREE LINE

LINE TABLE		
LINE	LENGTH	BEARING
L24	80.11	S87°13'36"E
L25	30.00	S02°28'13"W
L26	80.32	N87°13'36"W
L27	30.00	N02°51'36"E

LEGAL DESCRIPTIONS
SCALE: 1" = 100'



PREPARED FOR:

AMERICAN TOWER CORPORATION
400 REGENCY FOREST DR.
CARY, NC 27511

PROJECT INFORMATION:
AT&T SITE # 368-545
ATC SITE # 280373
MEACHAM NC
POYTHRESS ROAD
CHAPEL HILL, NC 27516
(CHATHAM COUNTY)

PREPARED BY:

TOWER ENGINEERING PROFESSIONALS
3703 JUNCTION BOULEVARD
RALEIGH, NC 27603-5263
(919) 661-6351
NC LICENSE NO. C-1794

SURVEYOR CERTIFICATE
I, CLIFFORD BYRD, CERTIFY THIS PLAT WAS DRAWN UNDER MY SUPERVISION FROM AN ACTUAL SURVEY BY ME OR UNDER MY DIRECT SUPERVISION, (DEED DESCRIPTION RECORDED IN BOOK AND PAGE AS REFERENCED HEREON); THAT THE BOUNDARIES NOT SURVEYED ARE CLEARLY INDICATED AS BROKEN LINES, DRAWN FROM INFORMATION FOUND IN BOOK AND PAGE AS REFERENCED HEREON; THAT RATIO OF PRECISION AS CALCULATED IS 1: 10,000 OR GREATER; THAT THE AREA IS COMPUTED BY COORDINATE METHOD; THAT THIS PLAT WAS PREPARED IN ACCORDANCE WITH G.S.47-30 AS AMENDED. WITNESS MY ORIGINAL SIGNATURE, REGISTRATION NUMBER AND SEAL, THIS 23 DAY OF MAY, 2013.

CLIFFORD C. BYRD
NORTH CAROLINA PLS # L-3782

SHEET TITLE:
LEGAL DESCRIPTIONS

DATE: 05/23/2013 REVISION: 0
SHEET #: 2 OF 2 TEP #: 131501

ATC SITE NUMBER : 280373
ATC SITE NAME: MEACHAM NC
PROJECT DESCRIPTION: PROPOSED WIRELESS
TELECOMMUNICATIONS
FACILITY
TOWER TYPE: 195' MONOPOLE
(199 OVERALL)
SITE ADDRESS: POYTHRESS ROAD
CHAPEL HILL, NC 27516
(CHATHAM COUNTY)
JURISDICTION: CHATHAM COUNTY
AREA OF CONSTRUCTION: 12,404 ± SQ. FT.
(LEASE AREA & ACCESS DRIVE)
PRESENT
OCCUPANCY TYPE: UNDEVELOPED
CURRENT ZONING: R2
PIN #: 85601

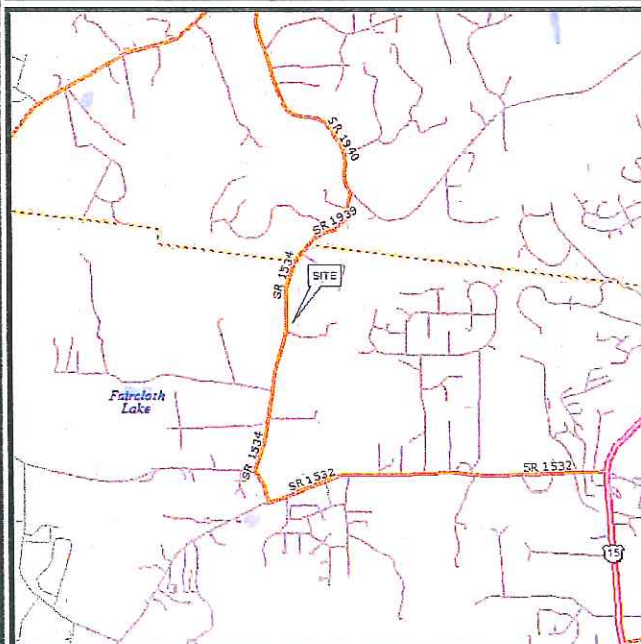
PROJECT INFORMATION

LATITUDE N 35° 51' 28.053" (NAD '27)
LONGITUDE W 79° 07' 22.358" (NAD '27)

LATITUDE N 35° 51' 28.572" (NAD '83)
LONGITUDE W 79° 07' 21.404" (NAD '83)

GROUND ELEV. (AMSL) =580.1' (NAVD '88)

1-A CERTIFICATION



LOCATION MAP

DIRECTIONS BEGINNING FROM BURLINGTON NC: MERGE ONTO I-40 E/I-85BUS
N TOWARD I-85 N/DURHAM/RALEIGH 1.6 MI. MERGE ONTO I-40 E/I-85 N 17.1 MI.
TAKE EXIT 147, TOWARD GRAHAM/PITTSBORO. 0.3 MI. TURN RIGHT ONTO
NC-87/S MAIN ST. FOLLOW NC-87. 12.6 MI. TURN LEFT ONTO E GREENSBORO
CHAPEL HILL RD. 3.0 MI. E GREENSBORO CHAPEL HILL RD BECOMES OLD
GREENSBORO RD. 9.2 MI. TURN RIGHT ONTO JONES FERRY RD. 1.8 MI. TURN
LEFT ONTO DAMASCUS CHURCH 1.5 MI. TURN RIGHT ONTO MEACHUM RD.
MEACHUM RD BECOMES POYTHRESS RD. 0.5 MI. TURN LEFT ONTO CHESTNUT
WAY. 189 CHESTNUT WAY IS ON THE LEFT.

DRIVING DIRECTIONS

SITE PROJECT MANAGER:

NAME: AMERICAN TOWER COMPANY
ADDRESS: 400 REGENCY FOREST DRIVE
CITY, STATE, ZIP: CARY, NC 27518
CONTACT: JILL HOUSE
PHONE: (919) 466-5163

SITE APPLICANT:

NAME: AMERICAN TOWER CORPORATION
ADDRESS: 400 REGENCY FOREST DRIVE
CITY, STATE, ZIP: CARY, NC 27518
CONTACT: JILL HOUSE
PHONE: (919) 466-5163

SURVEYOR:

NAME: TOWER ENGINEERING PROFESSIONALS
ADDRESS: 3703 JUNCTION BOULEVARD
CITY, STATE, ZIP: RALEIGH, NC 27603
CONTACT: CLIFFORD C. BYRD, P.L.S.
PHONE: (919) 661-6351

CIVIL ENGINEER:

NAME: TOWER ENGINEERING PROFESSIONALS
ADDRESS: 3703 JUNCTION BOULEVARD
CITY, STATE, ZIP: RALEIGH, NC 27603
CONTACT: GRAHAM M. ANDRES, P.E.
PHONE: (919) 661-6351

ELECTRICAL ENGINEER:

NAME: TOWER ENGINEERING PROFESSIONALS
ADDRESS: 3703 JUNCTION BOULEVARD
CITY, STATE, ZIP: RALEIGH, NC 27603
CONTACT: FREDERICK T. HERB, P.E.
PHONE: (919) 661-6351

PROPERTY OWNER:

NAME: JAMES & JANE WOMBLE
ADDRESS: 189 CHESTNUT WAY
CITY, STATE, ZIP: CHAPEL HILL, NC 27516
CONTACT: JAMES & JANE WOMBLE
PHONE: 919-933-1374

CONTACT INFORMATION



AT&T SITE #: 368-545
ATC SITE #: 280373
ATC SITE NAME: MEACHAM NC
POYTHRESS ROAD
CHAPEL HILL, NC 27516

ALL WORK AND MATERIALS SHALL BE PERFORMED AND INSTALLED IN
ACCORDANCE WITH THE CURRENT EDITIONS OF THE FOLLOWING CODES
AS ADOPTED BY THE LOCAL GOVERNING AUTHORITIES. NOTHING IN THESE
PLANS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THE
LATEST EDITIONS OF THE FOLLOWING:

1. NORTH CAROLINA BUILDING CODE (2012 EDITION)
2. NORTH CAROLINA CODE COUNCIL
3. ANSI/TIA-222-G-2-2009
4. 2012 NCEC (NEC 2011 + ADDENDA)
5. LOCAL BUILDING CODE
6. CITY/COUNTY ORDINANCES

CODE COMPLIANCE

UTILITIES:

POWER COMPANY: PROGRESS ENERGY
CONTACT: CUSTOMER SERVICE
PHONE: 800-462-2777
METER # NEAR SITE: UNKNOWN

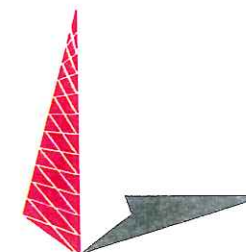
TELEPHONE COMPANY:

SOUTHERN BELL
CONTACT: CUSTOMER SERVICE
PHONE: 1-800-632-4949
PHONE # NEAR SITE: 919-933-1347
PEDESTAL # NEAR SITE: 38

SHEET	DESCRIPTION	REV
T1	TITLE SHEET	1
N1	GENERAL NOTES	1
C1	SITE PLAN	1
C2	COMPOUND DETAIL	1
C3	TOWER ELEVATION	1
C4	SHELTER ELEVATIONS	1
C5	SHELTER FOUNDATION DETAILS	1
C6	GENERATOR & FUEL TANK ELEVATIONS	1
C7	GENERATOR FOUNDATION DETAILS	1
C8	ICE BRIDGE DETAILS I	1
C9	ICE BRIDGE DETAILS II	1
C10	FENCE DETAILS	1
C11	SIGNAGE DETAILS	1
C12	CULVERT & DRIVEWAY DETAILS	1
C13	SOIL & EROSION CONTROL PLAN	1
C14	PIPE OUTLET PROTECTION DETAILS	1
E1	ELECTRICAL NOTES	1
E2	SERVICE ROUTING PLAN & ONE LINE DIAGRAM	1
E3	TOWER & SHELTER GROUNDING PLAN	1
E4	PANELBOARD SCHEDULE	1
E5	SERVICE RACK DETAILS I	1
E5A	SERVICE RACK DETAILS II	1
E6	GROUNDING DETAILS I	1
E7	GROUNDING DETAILS II	1

INDEX OF SHEETS

PLANS PREPARED BY:



TOWER ENGINEERING PROFESSIONALS
3703 JUNCTION BOULEVARD
RALEIGH, NC 27603-5263
OFFICE: (919) 661-6351
www.tepgroup.net

N.C. LICENSE # C-1794

REV	DATE	ISSUED FOR:
1	07-19-13	CONSTRUCTION
0	05-22-13	PRELIMINARY

DRAWN BY: KWJ CHECKED BY: GMA

SEAL:



July 19, 2013

SEAL:



July 19, 2013

SHEET NUMBER:

T-1

REVISION:

1

TEP #: 131501

1. ALL REFERENCES MADE TO OWNER IN THESE DOCUMENTS SHALL BE CONSIDERED ATC OR IT'S DESIGNATED REPRESENTATIVE.
2. ALL WORK PRESENTED ON THESE DRAWINGS MUST BE COMPLETED BY THE CONTRACTOR UNLESS NOTED OTHERWISE. THE CONTRACTOR MUST HAVE CONSIDERABLE EXPERIENCE IN PERFORMANCE OF WORK SIMILAR TO THAT DESCRIBED HEREIN. BY ACCEPTANCE OF THIS ASSIGNMENT, THE CONTRACTOR IS ATTESTING THAT HE DOES HAVE SUFFICIENT EXPERIENCE AND ABILITY, THAT HE IS KNOWLEDGEABLE OF THE WORK TO BE PERFORMED AND THAT HE IS PROPERLY LICENSED AND PROPERLY REGISTERED TO DO THIS WORK IN THE STATE OF NORTH CAROLINA.
3. THE STRUCTURE SHALL BE DESIGNED IN ACCORDANCE WITH ANSI/TIA-222-G-2-2009. THIS CONFORMS TO THE REQUIREMENTS OF THE NORTH CAROLINA BUILDING CODE, 2012 EDITION.
4. WORK SHALL BE COMPLETED IN ACCORDANCE WITH THE NORTH CAROLINA BUILDING CODE, 2012 EDITION.
5. UNLESS SHOWN OR NOTED OTHERWISE ON THE CONTRACT DRAWINGS, OR IN THE SPECIFICATIONS, THE FOLLOWING NOTES SHALL APPLY TO THE MATERIALS LISTED HEREIN, AND TO THE PROCEDURES TO BE USED ON THIS PROJECT.
6. ALL HARDWARE ASSEMBLY MANUFACTURER'S INSTRUCTIONS SHALL BE FOLLOWED EXACTLY AND SHALL SUPERSEDE ANY CONFLICTING NOTES ENCLOSED HEREIN.
7. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO DETERMINE ERECTION PROCEDURE AND SEQUENCE TO INSURE THE SAFETY OF THE STRUCTURE AND IT'S COMPONENT PARTS DURING ERECTION AND/OR FIELD MODIFICATIONS. THIS INCLUDES, BUT IS NOT LIMITED TO, THE ADDITION OF TEMPORARY BRACING, GUYS OR TIE DOWNS THAT MAY BE NECESSARY. SUCH MATERIAL SHALL BE REMOVED AND SHALL REMAIN THE PROPERTY OF THE CONTRACTOR AFTER THE COMPLETION OF THE PROJECT.
8. ALL DIMENSIONS, ELEVATIONS, AND EXISTING CONDITIONS SHOWN ON THE DRAWINGS SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO BEGINNING ANY MATERIALS ORDERING, FABRICATION OR CONSTRUCTION WORK ON THIS PROJECT. CONTRACTOR SHALL NOT SCALE CONTRACT DRAWINGS IN LIEU OF FIELD VERIFICATION. ANY DISCREPANCIES SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE OWNER AND THE OWNER'S ENGINEER. THE DISCREPANCIES MUST BE RESOLVED BEFORE THE CONTRACTOR IS TO PROCEED WITH THE WORK. THE CONTRACT DOCUMENTS DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK AND SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES. OBSERVATION VISITS TO THE SITE BY THE OWNER AND/OR THE ENGINEER SHALL NOT INCLUDE INSPECTION OF THE PROTECTIVE MEASURES OR THE PROCEDURES.
9. ALL MATERIALS AND EQUIPMENT FURNISHED SHALL BE NEW AND OF GOOD QUALITY, FREE FROM FAULTS AND DEFECTS AND IN CONFORMANCE WITH THE CONTRACT DOCUMENTS. ANY AND ALL SUBSTITUTIONS MUST BE PROPERLY APPROVED AND AUTHORIZED IN WRITING BY THE OWNER AND ENGINEER PRIOR TO INSTALLATION. THE CONTRACTOR SHALL FURNISH SATISFACTORY EVIDENCE AS TO THE KIND AND QUALITY OF THE MATERIALS AND EQUIPMENT BEING SUBSTITUTED.
10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR INITIATING, MAINTAINING, AND SUPERVISING ALL SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK. THE CONTRACTOR IS RESPONSIBLE FOR INSURING THAT THIS PROJECT AND RELATED WORK COMPLIES WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL SAFETY CODES AND REGULATIONS GOVERNING THIS WORK.
11. ACCESS TO THE PROPOSED WORK SITE MAY BE RESTRICTED. THE CONTRACTOR SHALL COORDINATE INTENDED CONSTRUCTION ACTIVITY, INCLUDING WORK SCHEDULE AND MATERIALS ACCESS, WITH THE AT&T PROJECT MANAGER.
12. BILL OF MATERIALS AND PART NUMBERS LISTED ON CONSTRUCTION DRAWINGS ARE INTENDED TO AID CONTRACTOR/OWNER. CONTRACTOR/OWNER SHALL VERIFY PARTS AND QUANTITIES WITH MANUFACTURER PRIOR TO BIDDING AND/OR ORDERING MATERIALS.
13. ALL PERMITS THAT MUST BE OBTAINED ARE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR WILL BE RESPONSIBLE FOR ABIDING BY ALL CONDITIONS AND REQUIREMENTS OF THE PERMITS.
14. 24 HOURS PRIOR TO THE BEGINNING OF ANY CONSTRUCTION, THE CONTRACTOR MUST NOTIFY THE APPLICABLE JURISDICTIONAL (STATE, COUNTY OR CITY) ENGINEER.
15. THE CONTRACTOR SHALL REWORK (DRY, SCARIFY, ETC.) ALL MATERIAL NOT SUITABLE FOR SUBGRADE IN ITS PRESENT STATE. AFTER REWORKING, IF THE MATERIAL REMAINS UNSUITABLE, THE CONTRACTOR SHALL UNDERCUT THIS MATERIAL AND REPLACE WITH APPROVED MATERIAL. ALL SUBGRADES SHALL BE PROOFROLLED WITH A FULLY LOADED TANDEM AXLE DUMP TRUCK PRIOR TO PAVING. ANY SOFT MATERIAL SHALL BE REWORKED OR REPLACED.
16. THE CONTRACTOR IS REQUIRED TO MAINTAIN ALL PIPES, DITCHES, AND OTHER DRAINAGE STRUCTURES FREE FROM OBSTRUCTION UNTIL WORK IS ACCEPTED BY THE OWNER. THE CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGES CAUSED BY FAILURE TO MAINTAIN DRAINAGE STRUCTURE IN OPERABLE CONDITION.
17. ALL MATERIALS AND WORKMANSHIP SHALL BE WARRANTED FOR ONE YEAR FROM ACCEPTANCE DATE.
18. ALL BUILDING DIMENSIONS SHALL BE VERIFIED WITH THE PLANS (LATEST REVISION) PRIOR TO COMMENCING CONSTRUCTION. NOTIFY THE ENGINEER IMMEDIATELY IF ANY DISCREPANCIES ARE DISCOVERED. THE OWNER SHALL HAVE A SET OF APPROVED PLANS AVAILABLE AT THE SITE AT ALL TIMES WHILE WORK IS BEING PERFORMED. A DESIGNATED RESPONSIBLE EMPLOYEE SHALL BE AVAILABLE FOR CONTACT BY GOVERNING AGENCY INSPECTORS.

19. ANY BUILDINGS ON THIS SITE ARE INTENDED TO SHELTER EQUIPMENT WHICH WILL ONLY BE PERIODICALLY MAINTAINED AND ARE NOT INTENDED FOR HUMAN OCCUPANCY.
20. TEMPORARY FACILITIES FOR PROTECTION OF TOOLS AND EQUIPMENT SHALL CONFORM TO LOCAL REGULATIONS AND SHALL BE THE CONTRACTOR'S RESPONSIBILITY.
21. RENTAL CHARGES, SAFETY, PROTECTION AND MAINTENANCE OF RENTED EQUIPMENT SHALL BE THE CONTRACTOR'S RESPONSIBILITY.
22. THE CONTRACTOR AND ITS SUBCONTRACTORS SHALL CARRY LIABILITY INSURANCE IN THE AMOUNTS AND FORM IN ACCORDANCE WITH AT&T SPECIFICATIONS. CERTIFICATES DEMONSTRATING PROOF OF COVERAGE SHALL BE PROVIDED TO AT&T PRIOR TO THE START OF THE WORK ON THE PROJECT.
23. THESE DOCUMENTS DO NOT INCLUDE THE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY. SAFETY, CARE OF ADJACENT PROPERTIES, AND COMPLIANCE WITH STATE AND FEDERAL REGULATIONS REGARDING SAFETY, SHALL BE THE CONTRACTOR'S RESPONSIBILITY.
24. THE CONTRACTOR SHALL CONTACT ALL APPLICABLE UTILITY SERVICES TO VERIFY LOCATIONS OF EXISTING UTILITIES AND REQUIREMENTS FOR NEW UTILITY CONNECTIONS PRIOR TO EXCAVATING.
25. THE CONTRACTOR SHALL MAINTAIN THE JOB CLEAR OF TRASH AND DEBRIS. ALL WASTE MATERIALS SHALL BE REMOVED FROM THE SITE PRIOR TO SUBSTANTIAL COMPLETION AND PRIOR TO FINAL ACCEPTANCE. THE CONTRACTOR SHALL FURNISH ONE 55 GALLON BARREL, AND TRASH BAGS, AND SHALL REMOVE TRASH, DEBRIS, ETC., ON A DAILY BASIS.
26. COSTS FOR BUILDING PERMITS, LANDFILL TAXES, USE TAXES, SALES TAXES AND OTHER CHARGES RELATIVE TO CONSTRUCTION OF THIS PROJECT SHALL BE INCLUDED IN THE CONTRACT PRICE.
27. THE CONTRACTOR SHALL VISIT THE SITE AND BECOME FAMILIAR WITH ALL CONDITIONS PRIOR TO SUBMITTING HIS PROPOSAL. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS SHOWN ON THESE DRAWINGS WITH THOSE AT THE SITE. ANY VARIATION WHICH REQUIRES PHYSICAL CHANGE SHALL BE BROUGHT TO THE ATTENTION OF THE ATC PROJECT ENGINEER FOR FACILITIES/CONSTRUCTION.
28. THE CONTRACTOR SHALL GUARANTEE THE WORK PERFORMED ON THE PROJECT BY THE CONTRACTOR AND ANY OR ALL OF THE SUBCONTRACTORS WHO PERFORMED WORK FOR THE CONTRACTOR ON THIS PROJECT. THE GUARANTEE SHALL BE FOR A FULL YEAR FOLLOWING ISSUANCE OF THE FINAL PAYMENT OF RETAINAGE.

GENERAL NOTES

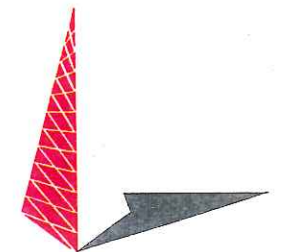
PLANS PREPARED FOR:



PROJECT INFORMATION:

AT&T SITE #: 368-545
ATC#: 280373
MEACHAM NC
POYTHRESS ROAD
CHAPEL HILL, NC 27516
(CHATHAM COUNTY)

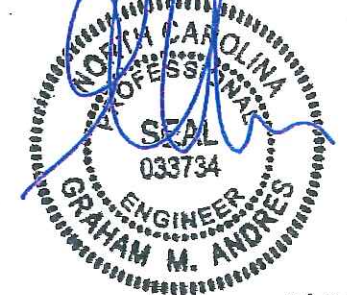
PLANS PREPARED BY:



TOWER ENGINEERING PROFESSIONALS
3703 JUNCTION BOULEVARD
RALEIGH, NC 27603-5263
OFFICE: (919) 661-6351
www.tepgroup.net

N.C. LICENSE #C-1794

SEAL:



July 19, 2013

REV	DATE	ISSUED FOR:
I	07-19-13	CONSTRUCTION
O	05-22-13	PRELIMINARY

DRAWN BY: SCB | CHECKED BY: GMA

SHEET TITLE:

**GENERAL
NOTES**

SHEET NUMBER:

N-1

REVISION:

1

TEP #: 131501

NOTES:

1. THE BASIS OF THE MERIDIANS AND COORDINATES FOR THIS PLAT IS THE NORTH CAROLINA STATE PLANE COORDINATE SYSTEM, NORTH AMERICAN DATUM 1983 (NCSPCS NAD 83), BASED ON DIFFERENTIAL GPS OBSERVATIONS PERFORMED ON APRIL 23, 2013.
2. VERTICAL INFORMATION SHOWN, BASED ON THE NORTH AMERICAN VERTICAL DATUM OF NAVD 1988 IN FEET.
3. ALL DISTANCES ARE GROUND UNLESS OTHERWISE NOTED.
4. THE TOWER IS LOCATED IN ZONE "X," AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN ACCORDING TO FEMA COMMUNITY PANEL #3710976600J, DATED FEBRUARY 2, 2007.
5. EXISTING LAND USE: UNDEVELOPED
EXISTING STUCTURE USE: N/A

JAMES WALTER WOMBLE &
JANE WOMBLE
PARCEL ID# 85601
DB 1437 PG 670
+/-83.751 ACRES
(CALCULATED)
NO ZONING



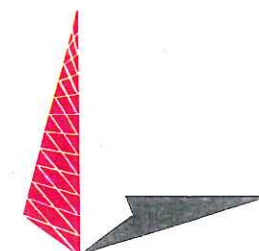
PLANS PREPARED FOR:



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(CHATHAM COUNTY)

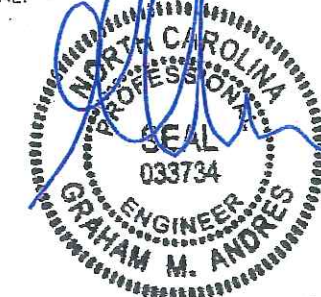
PLANS PREPARED BY:



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DRAWN BY: KWJ CHECKED BY: GMA

SHEET TITLE:

SITE PLAN

SHEET NUMBER:

C-1

REVISION:

1

TEP #: 131501

LEGEND

- EXIST. PROPERTY LINE
- ⊙ EXIST. UTILITY POLE
- ⊠ EXIST. TELCO PEDESTAL
- PROPERTY CORNER
- 200--- EXIST. CONTOUR LINE
- /// EDGE OF PAVEMENT
- OHW--- OVERHEAD WIRE
- R/W--- RIGHT-OF-WAY
- X— CHAIN LINK FENCE
- ~ EXISTING TREE LINE

SITE PLAN

SCALE: 1" = 60'

EXISTING CULVERT

REQUIRED 100' SETBACK

PROPOSED CLEARING LIMITS

PROPOSED MONOPOLE SEE SHEET C-3 FOR ELEVATION.

PROPOSED 100'x100' LEASE AREA

PROPOSED 60'x60' FENCED COMPOUND. SEE SHEET C-2 FOR DETAILS.

PROPOSED 12"Ø CULVERT. SEE SHEET C-12 FOR DETAILS.

PROPOSED 12' WIDE ACCESS ROAD. SEE SHEET C-12 FOR DETAILS.

PROPOSED 30' ACCESS & UTILITY EASEMENT

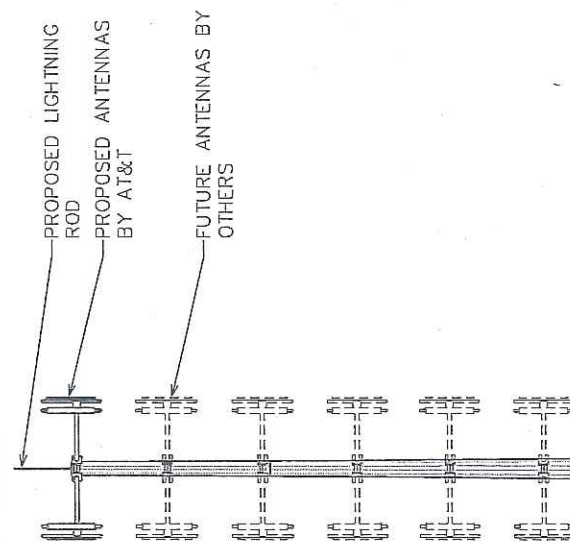
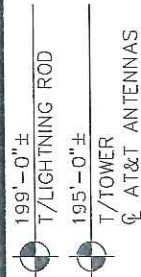
EXISTING GRAVEL ROAD

N/F
KAREN WOMBLE BRUSCHKE &
MICHAEL BRUSCHKE PIN#
88065
DB 1493 PG 1061

N/F
STEVEN RAY WOMBLE &
SHARON MCCOY WOMBLE
PIN# 87588
DB 1437 PG 216

N/F
STEVEN RAY WOMBLE &
SHARON MCCOY WOMBLE
PIN# 2165
DB 1642 PG 152

0 60 120
SCALE IN FEET



PROPOSED MONOPOLE TOWER



TOWER ELEVATION

SCALE: 1/8" = 1'-0"



NOTES:

1. TOWER SHALL BE CONSTRUCTED OF GALVANIZED STEEL OR PAINTED PER APPLICABLE STANDARDS OF THE FAA OR OTHER APPLICABLE FEDERAL OR STATE AGENCY.
2. A SINGLE SIGN, 2 FEET SQUARE, IN A VISIBLE LOCATION SHALL BE REQUIRED WITH NAME AND EMERGENCY TELEPHONE NUMBER OF THE TOWER OWNER AND ALL COMPANIES OPERATING ON THE TOWER; NO ADVERTISING SHALL BE ATTACHED TO THE TOWER.

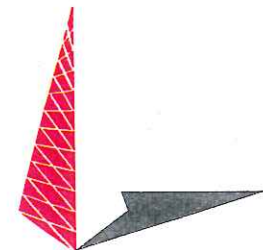
PLANS PREPARED FOR:



PROJECT INFORMATION:

AT&T SITE #: 368-545
ATC#: 280373
MEACHAM NC
POYTHRESS ROAD
CHAPEL HILL, NC 27516
(CHATHAM COUNTY)

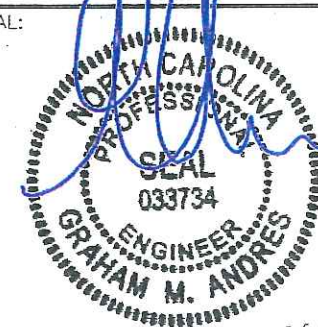
PLANS PREPARED BY:



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DRAWN BY: SCB CHECKED BY: GMA

SHEET TITLE:

**TOWER
ELEVATION**

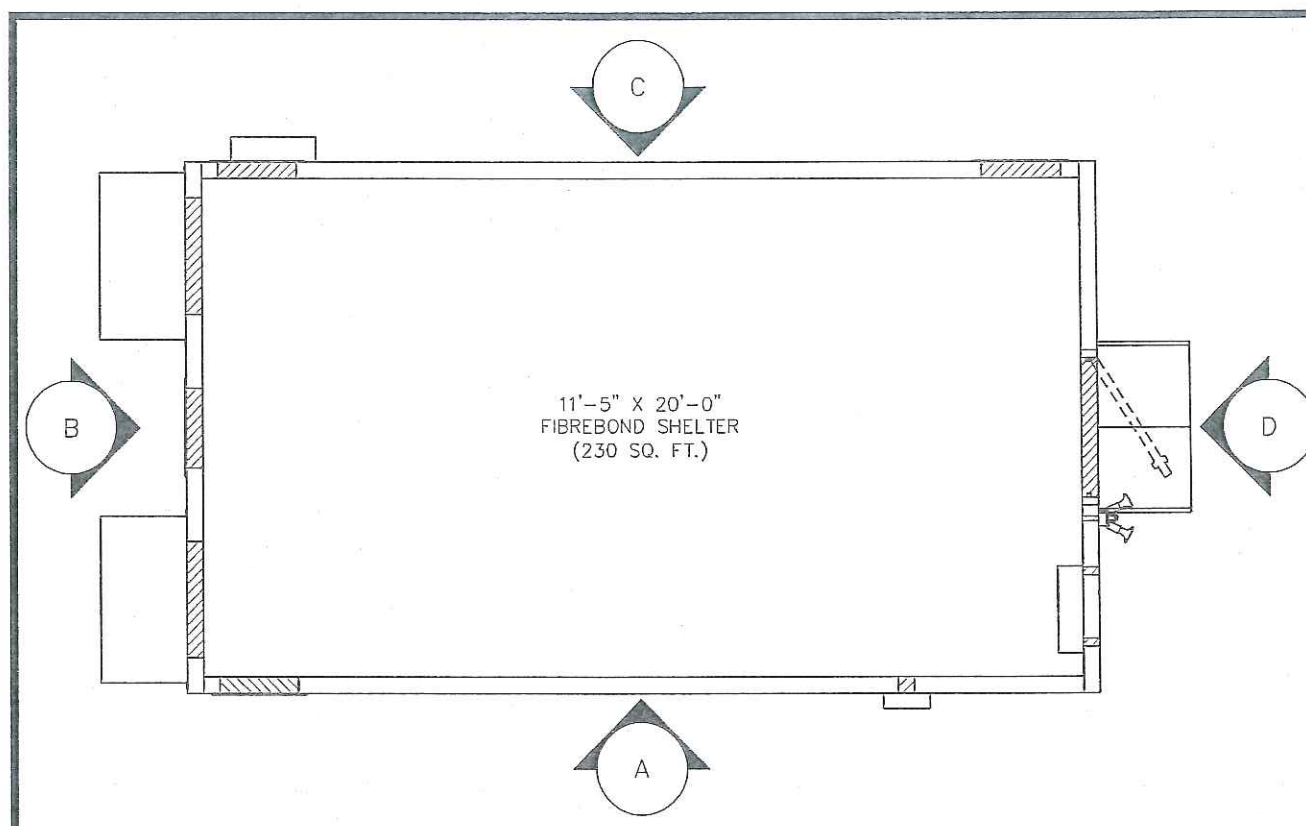
SHEET NUMBER:

C-3

REVISION:

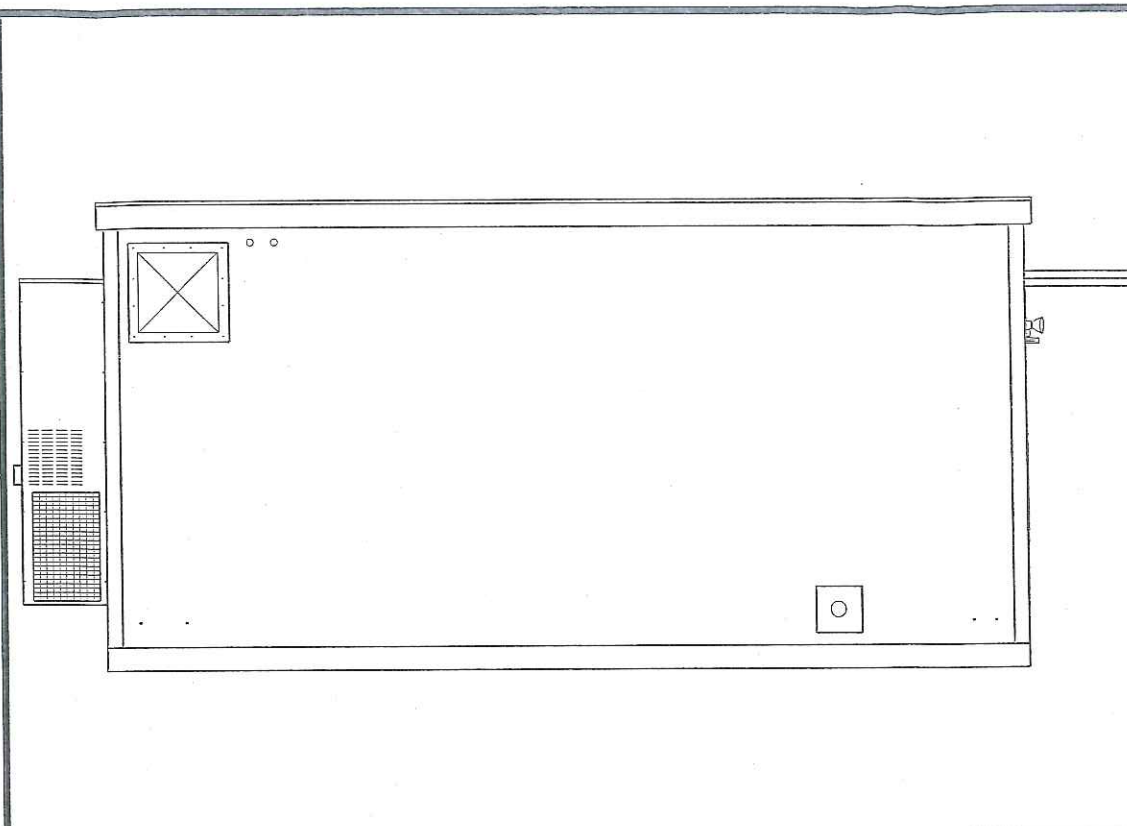
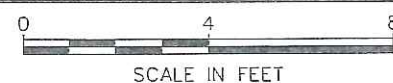
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TEP #: 131501



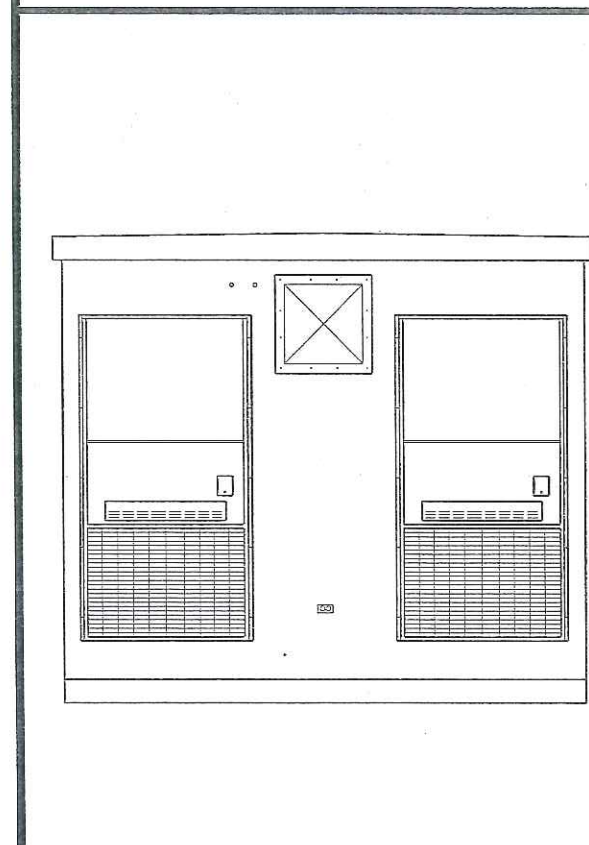
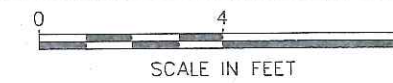
EQUIPMENT LAYOUT

SCALE: 1/4" = 1'-0"



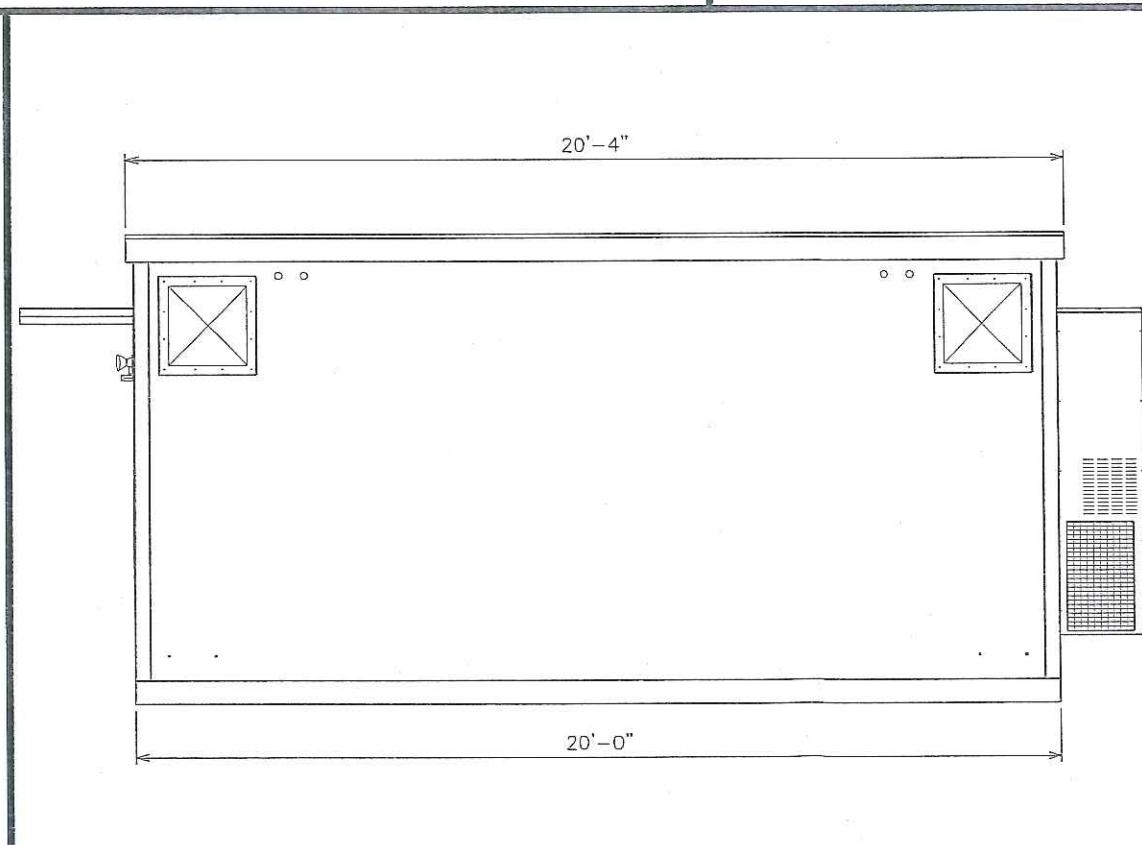
ELEVATION A

SCALE: 1/4" = 1'-0"



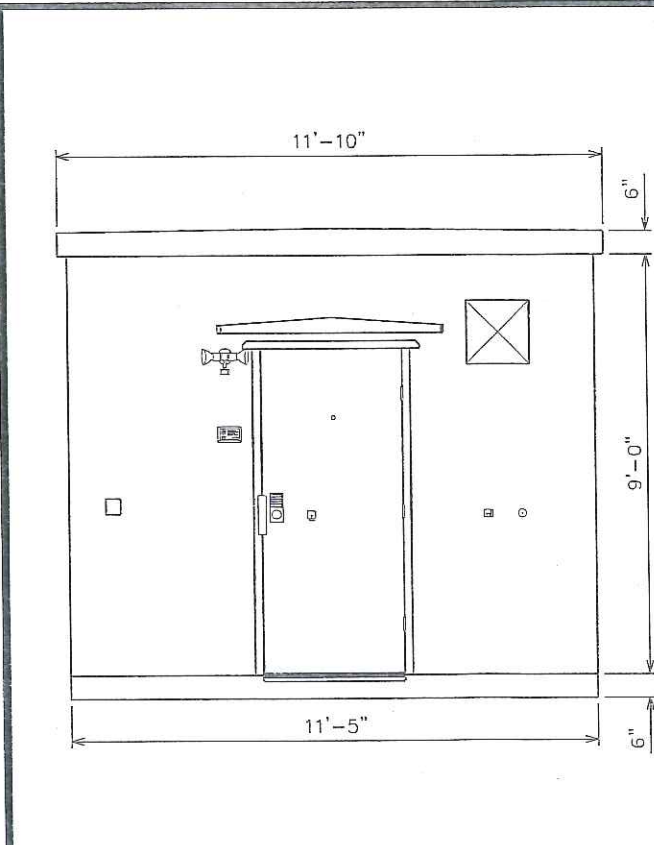
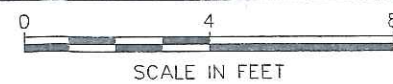
ELEVATION B

SCALE: 1/4" = 1'-0"



ELEVATION C

SCALE: 1/4" = 1'-0"



ELEVATION D

SCALE: 1/4" = 1'-0"

PLANS PREPARED FOR:

AMERICAN TOWER CORPORATION
400 REGENCY FOREST DRIVE
CARY, NC 27511

PROJECT INFORMATION:

AT&T SITE #: 368-545
ATC#: 280373
MEACHAM NC
POYTHRESS ROAD
CHAPEL HILL, NC 27516
(CHATHAM COUNTY)

PLANS PREPARED BY:

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3703 JUNCTION BOULEVARD
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OFFICE: (919) 661-6351
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N.C. LICENSE # C-1794

SEAL:

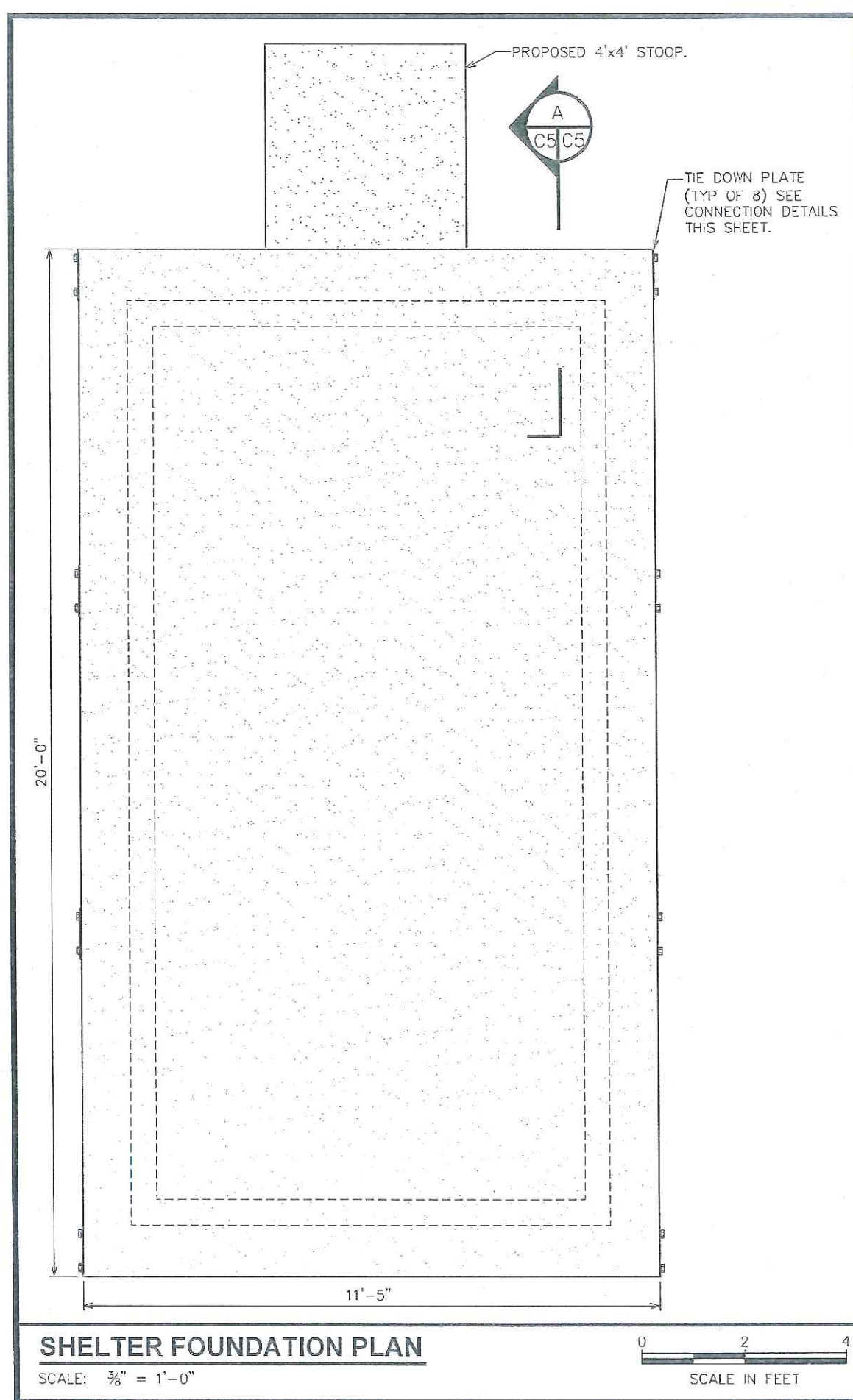
REV	DATE	ISSUED FOR:
1	07-19-13	CONSTRUCTION
0	05-22-13	PRELIMINARY

DRAWN BY: SCB CHECKED BY: GMA

SHEET TITLE:

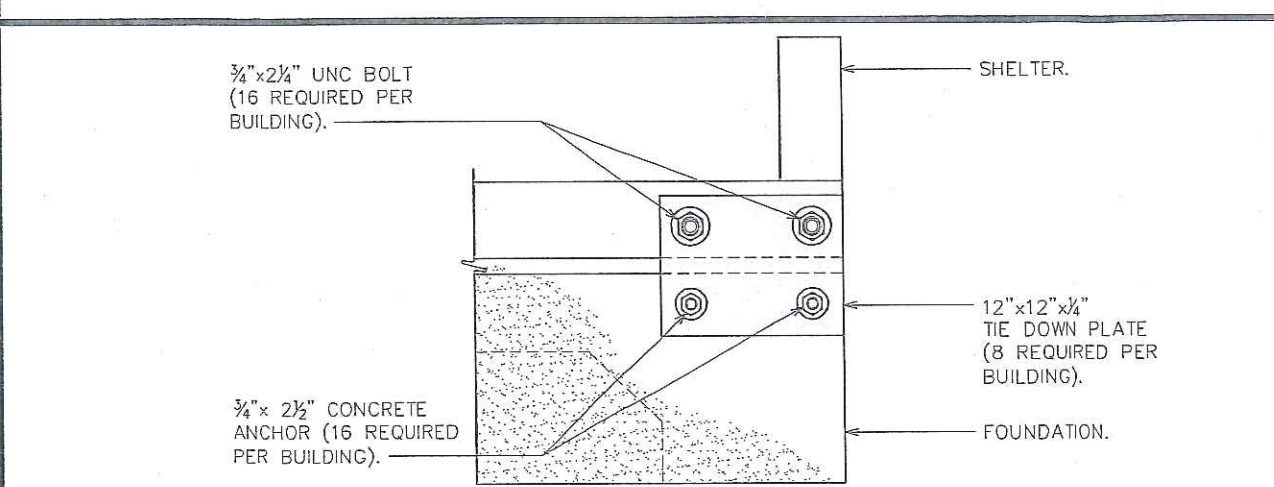
SHELTER ELEVATIONS

SHEET NUMBER:	REVISION:
C-4	1
	TEP #: 131501



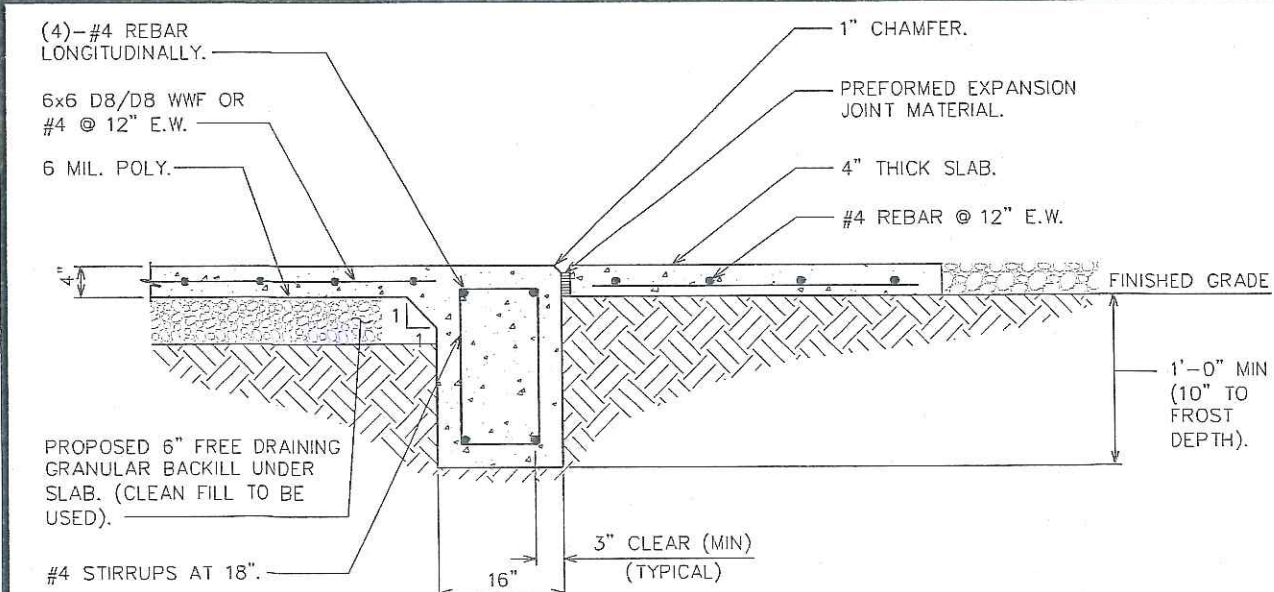
- GENERAL STRUCTURAL NOTES:**
- SPECIFICATION/CODES:
1. CONCRETE WORK SHALL BE PERFORMED IN ACCORDANCE WITH LATEST EDITION OF THE ACI CODE.
 2. REINFORCING STEEL SHALL BE PLACED IN ACCORDANCE WITH THE CONCRETE REINFORCING STEEL INSTITUTE (CRSI) "MANUAL OF STANDARD PRACTICE".
 3. DESIGN SHALL BE PER NORTH CAROLINA STATE BUILDING CODE, 2012 EDITION.

- FOUNDATION NOTES:**
1. FOUNDATION DESIGN BASED ON 2000 PSF SOIL BEARING CAPACITY. IF OTHER CONDITIONS EXIST, FOUNDATION SHALL BE REDESIGNED. CONTRACTOR SHALL HAVE SOIL BEARING CAPACITY VERIFIED BY A LICENSED PROFESSIONAL GEOTECHNICAL ENGINEER PRIOR TO INITIATION OF CONSTRUCTION ACTIVITIES.
 2. CONCRETE SHALL BE 2,500 PSI.
 3. REBAR $F_y = 60,000$ PSI.
 4. ALL BACKFILL SHALL BE THOROUGHLY COMPACTED TO A MINIMUM OF 95% DENSITY USING THE MODIFIED PROCTOR METHOD.



CONNECTION DETAIL

SCALE: 1" = 1'-0"



PAD SECTION

SCALE: $\frac{1}{2}" = 1'-0"$

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AMERICAN TOWER CORPORATION
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OFFICE: (919) 661-6351
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N.C. LICENSE # C-1794

SEAL:

NORTH CAROLINA PROFESSIONAL ENGINEER
SEAL
033734
GRAHAM M. ANDRES

July 19, 2013

I	07-19-13	CONSTRUCTION
O	05-22-13	PRELIMINARY
REV	DATE	ISSUED FOR:

DRAWN BY: SCB CHECKED BY: GMA

SHEET TITLE:

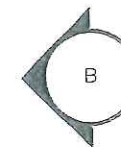
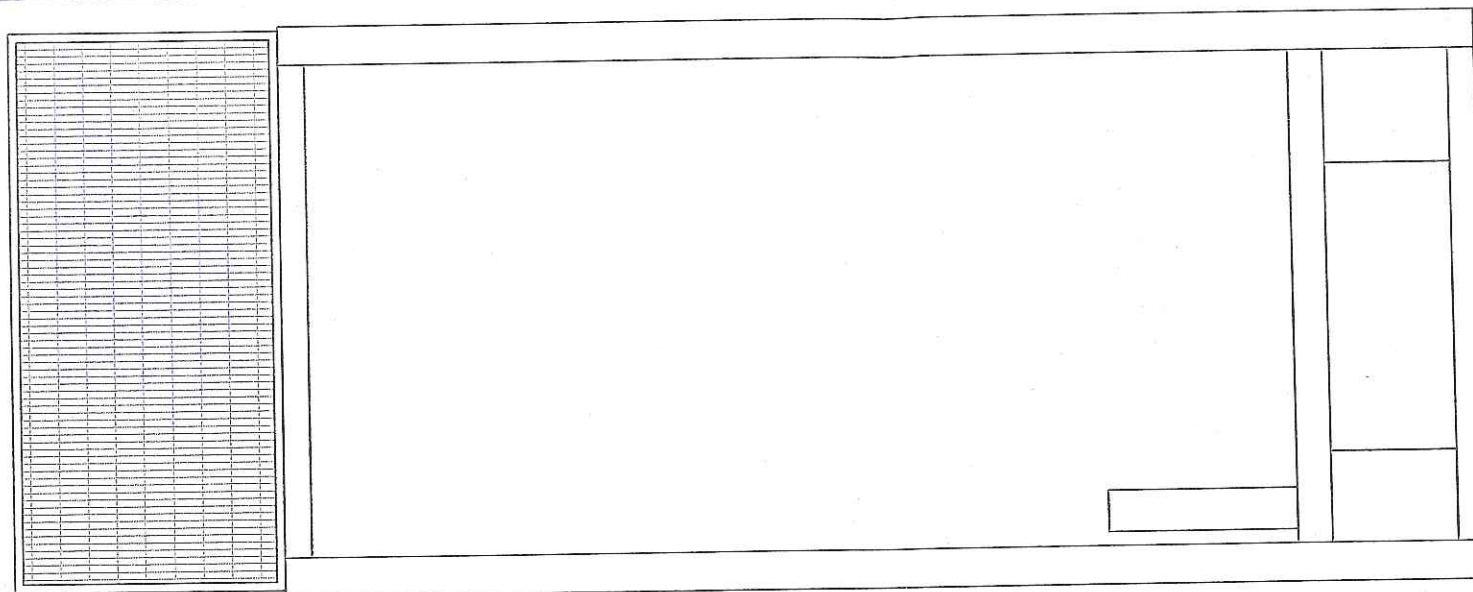
SHELTER FOUNDATION DETAILS

SHEET NUMBER: **C-5** REVISION: **1**

TEP #: 131501

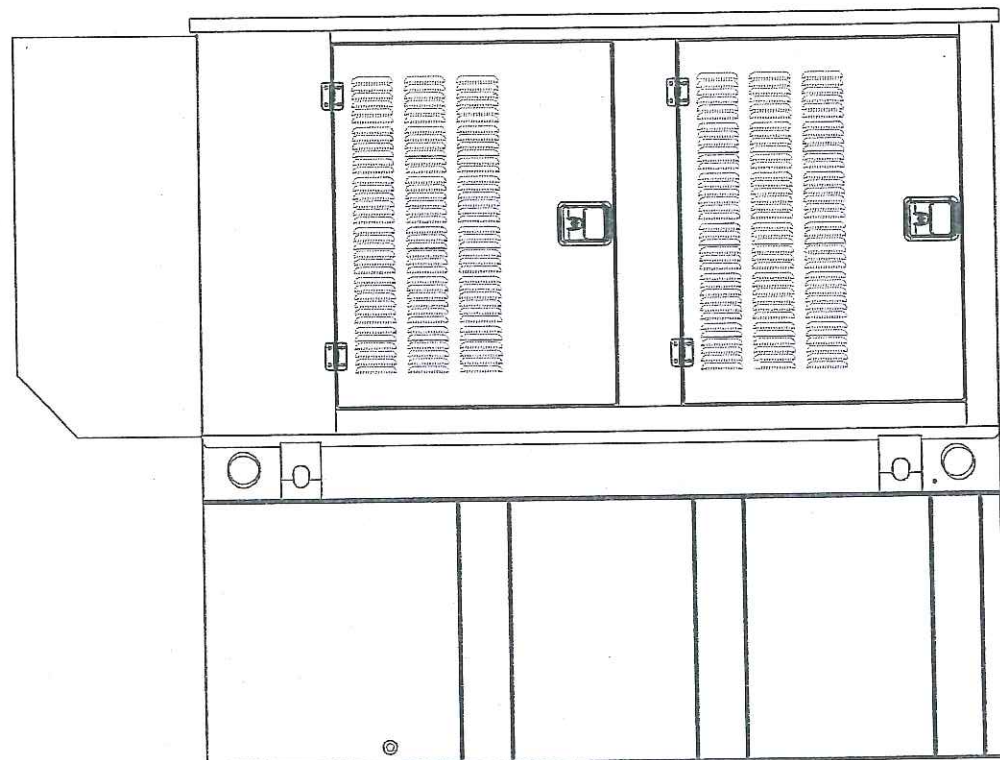
GENERATOR NOTE:

80KW INDUSTRIAL DIESEL GENERATOR
BY GENERAC. CONTRACTOR TO VERIFY
DIMENSIONS WITH MANUFACTURER.



GENERATOR LAYOUT

SCALE: N.T.S.



NOTE:

ANCHOR GENERATOR FUEL TANK TO
CONCRETE PAD PER GENERAC
DESIGN DRAWINGS.

ELEVATION A

SCALE: N.T.S.

ELEVATION B

SCALE: N.T.S.

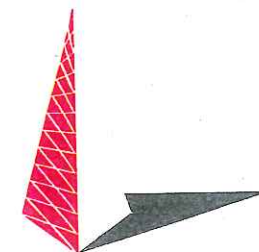
PLANS PREPARED FOR:



PROJECT INFORMATION:

AT&T SITE #: 368-545
ATC#: 280373
MEACHAM NC
POYTHRESS ROAD
CHAPEL HILL, NC 27516
(CHATHAM COUNTY)

PLANS PREPARED BY:



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3703 JUNCTION BOULEVARD
RALEIGH, NC 27603-5263
OFFICE: (919) 661-6351
www.tepgroup.net

N.C. LICENSE # 8-794

SEAL:



July 19, 2013

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DRAWN BY: SCB CHECKED BY: GMA

SHEET TITLE:

**GENERATOR & FUEL
TANK ELEVATIONS**

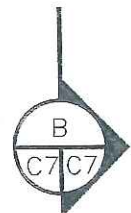
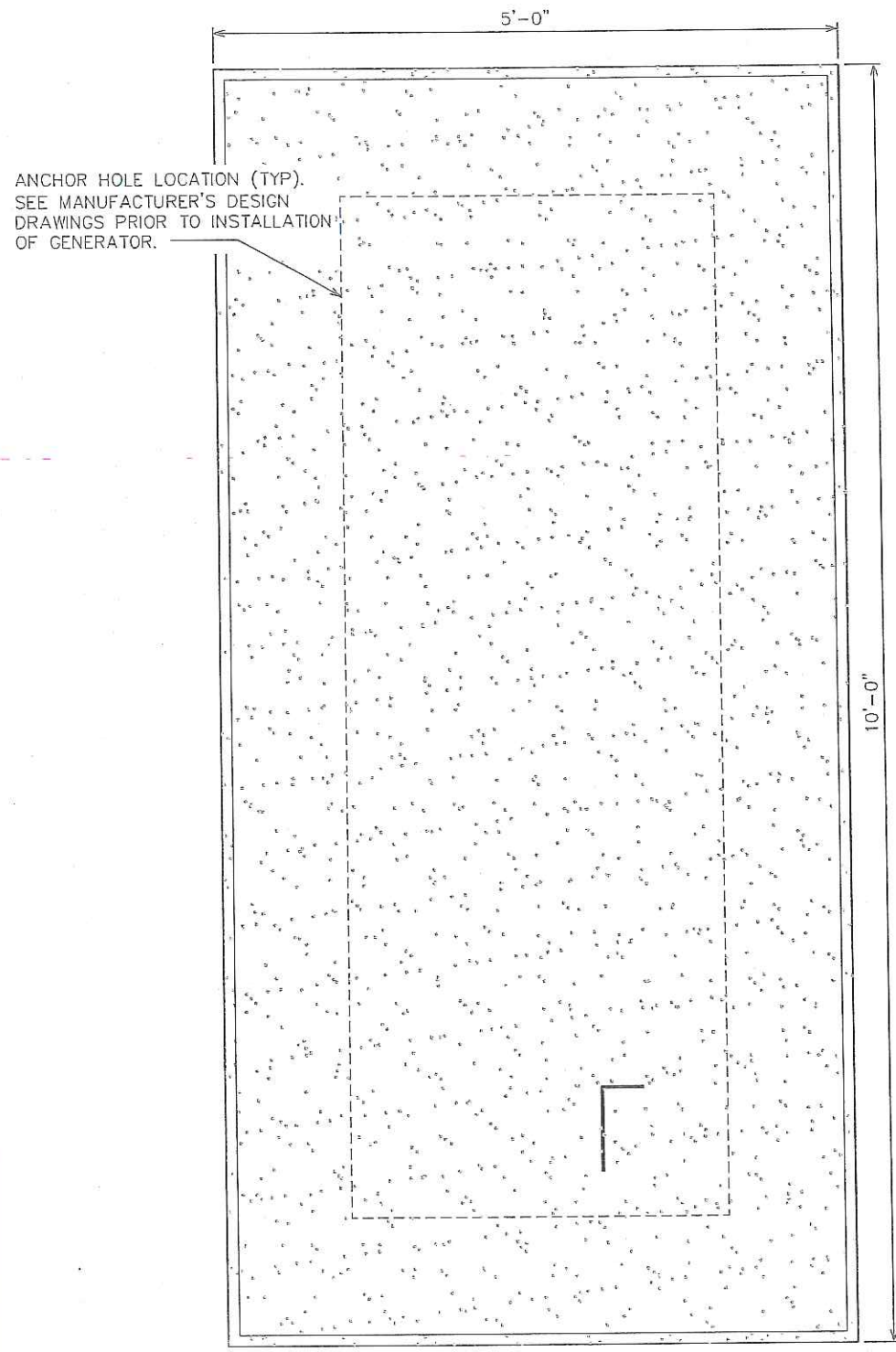
SHEET NUMBER:

C-6

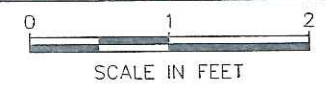
REVISION:

1

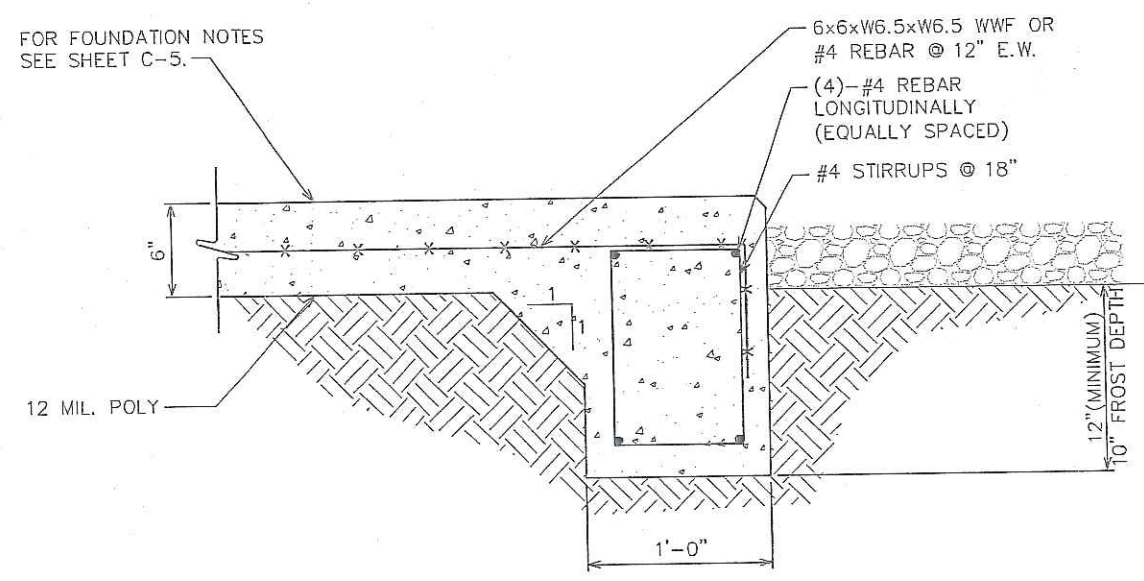
TEP #: 131501



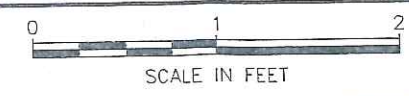
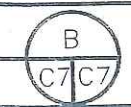
GENERATOR FOUNDATION
SCALE: 3/4" = 1'-0"



FOR FOUNDATION NOTES
SEE SHEET C-5.



SECTION
SCALE: 1" = 1'-0"



PLANS PREPARED FOR:

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400 REGENCY FOREST DRIVE
CARY, NC 27511

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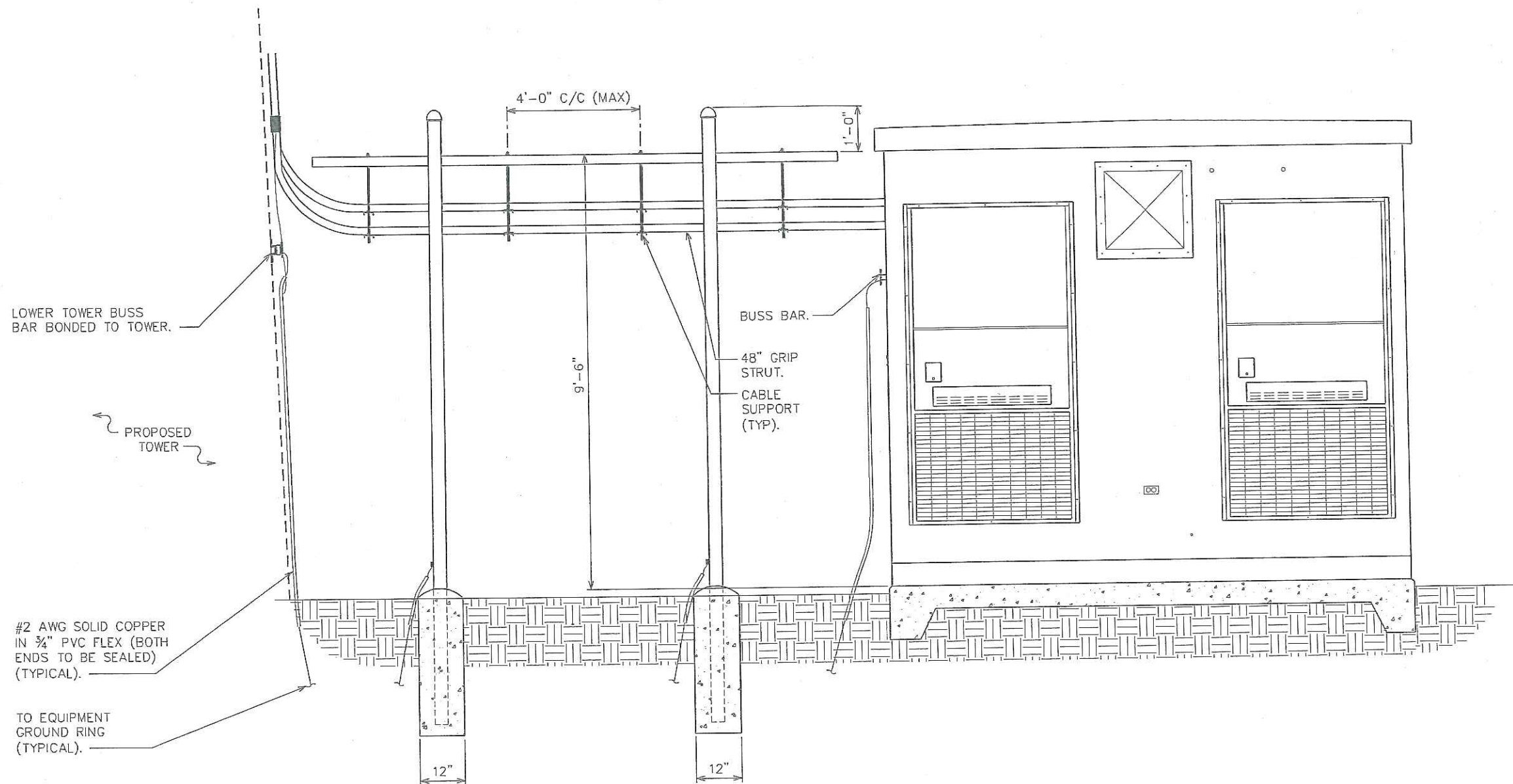
SHEET TITLE:

GENERATOR FOUNDATION DETAILS

SHEET NUMBER: **C-7**

REVISION: **1**

TEP #: 131501



ICE BRIDGE DETAILS

SCALE: N.T.S

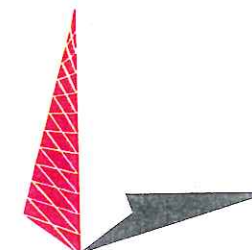
PLANS PREPARED FOR:

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400 REGENCY FOREST DRIVE
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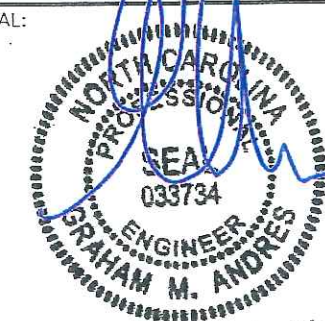
PLANS PREPARED BY:



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DRAWN BY: SCB CHECKED BY: GMA

SHEET TITLE:

**ICE BRIDGE
DETAILS I**

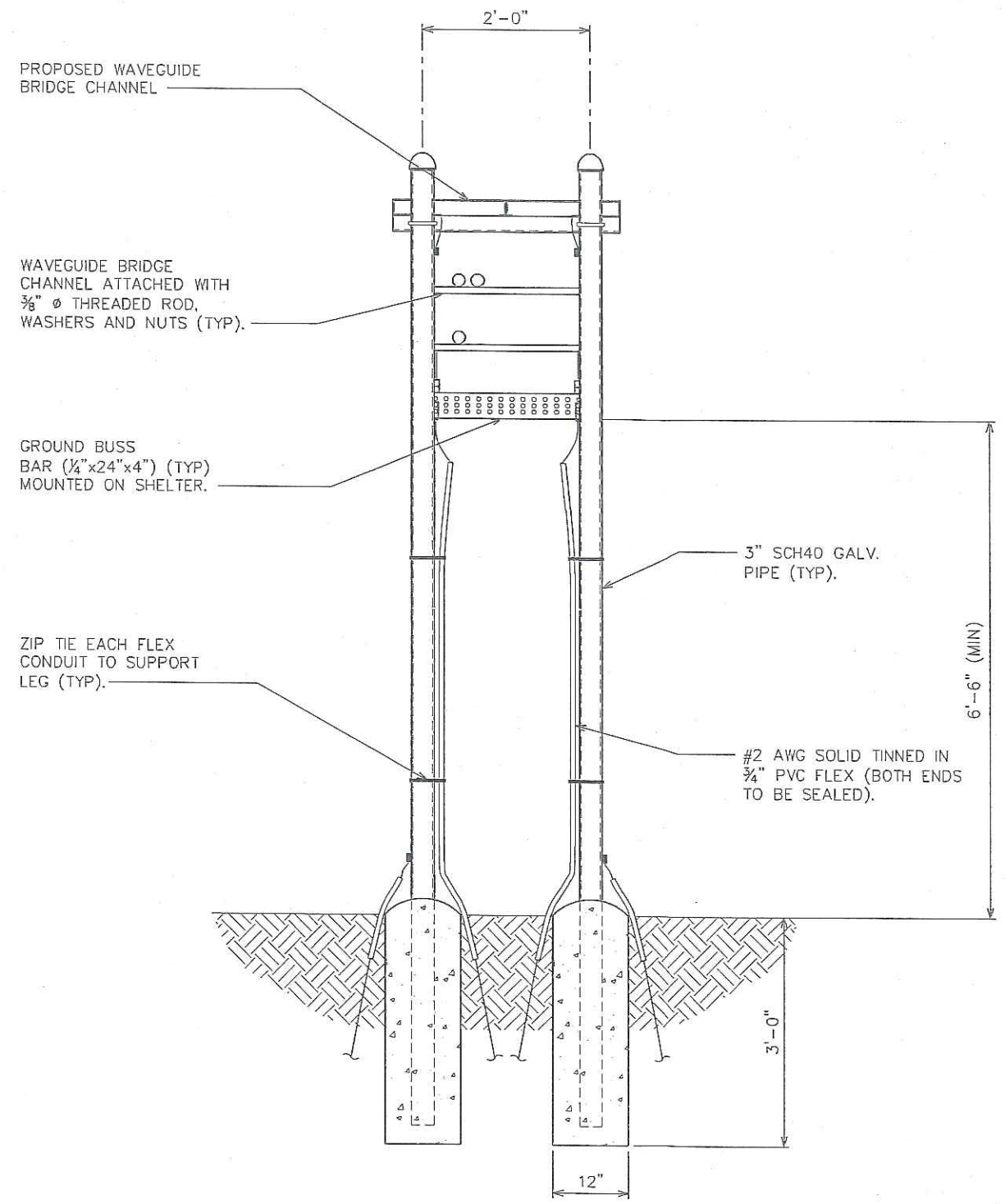
SHEET NUMBER:

C-8

REVISION:

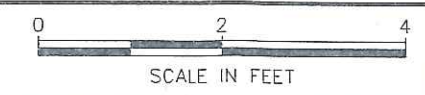
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TGP #: 131501



ICE BRIDGE DETAILS

SCALE: 1/2" = 1'-0"



PLANS PREPARED FOR:



AMERICAN TOWER CORPORATION
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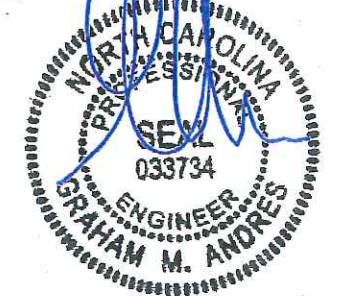
PLANS PREPARED BY:



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SEAL:



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DRAWN BY: JJM CHECKED BY: JAS

SHEET TITLE:

ICE BRIDGE DETAILS II

SHEET NUMBER: **C-9**

REVISION: **1**

TEP #: 131501

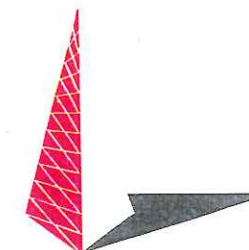
PLANS PREPARED FOR:



PROJECT INFORMATION:

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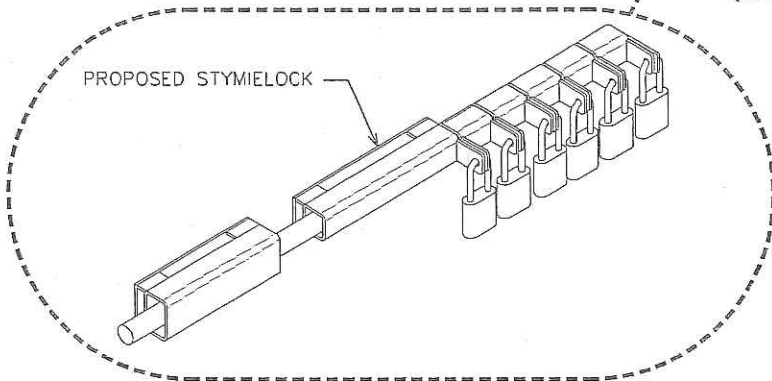
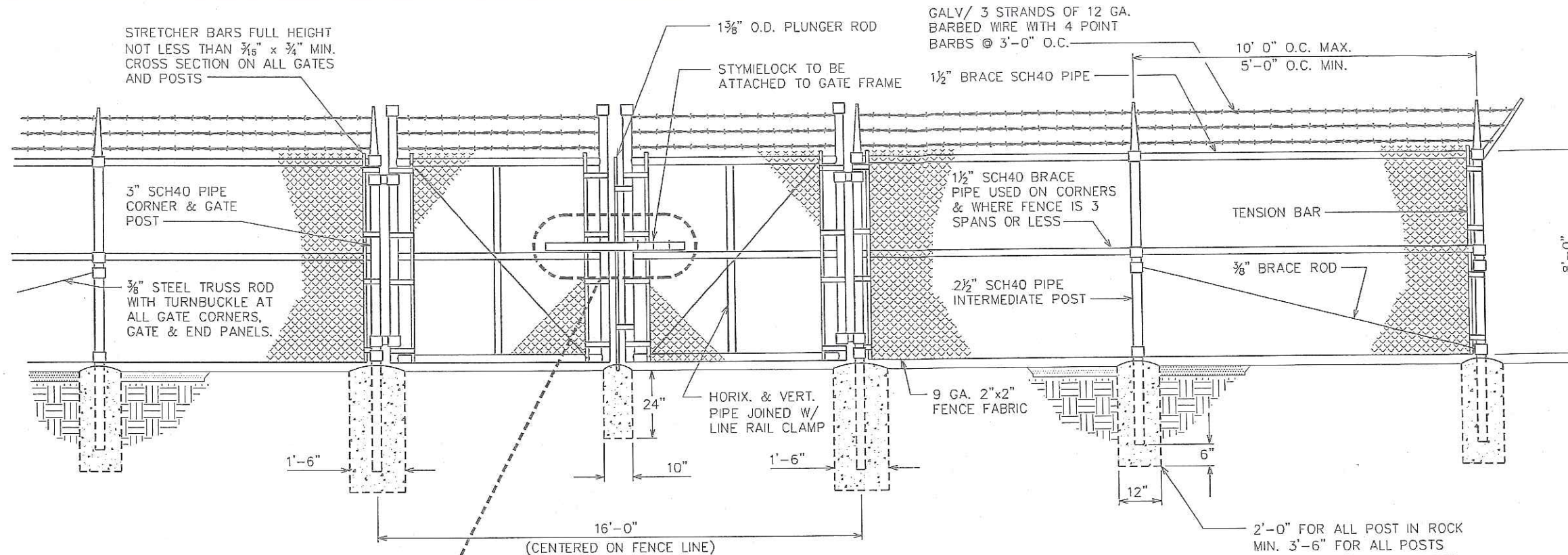
SHEET TITLE:

**FENCE
DETAILS**

SHEET NUMBER: C-10

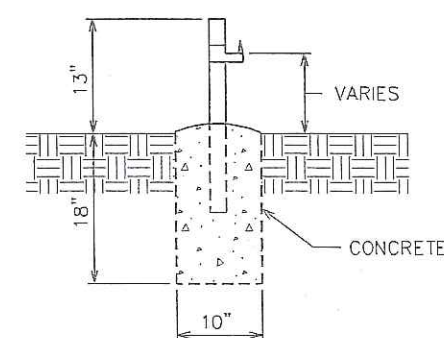
REVISION: 1

TEP #: 131501



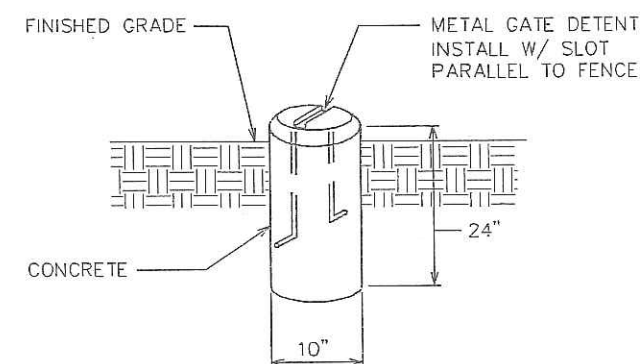
TYPICAL FENCE ELEVATION

SCALE: N.T.S.



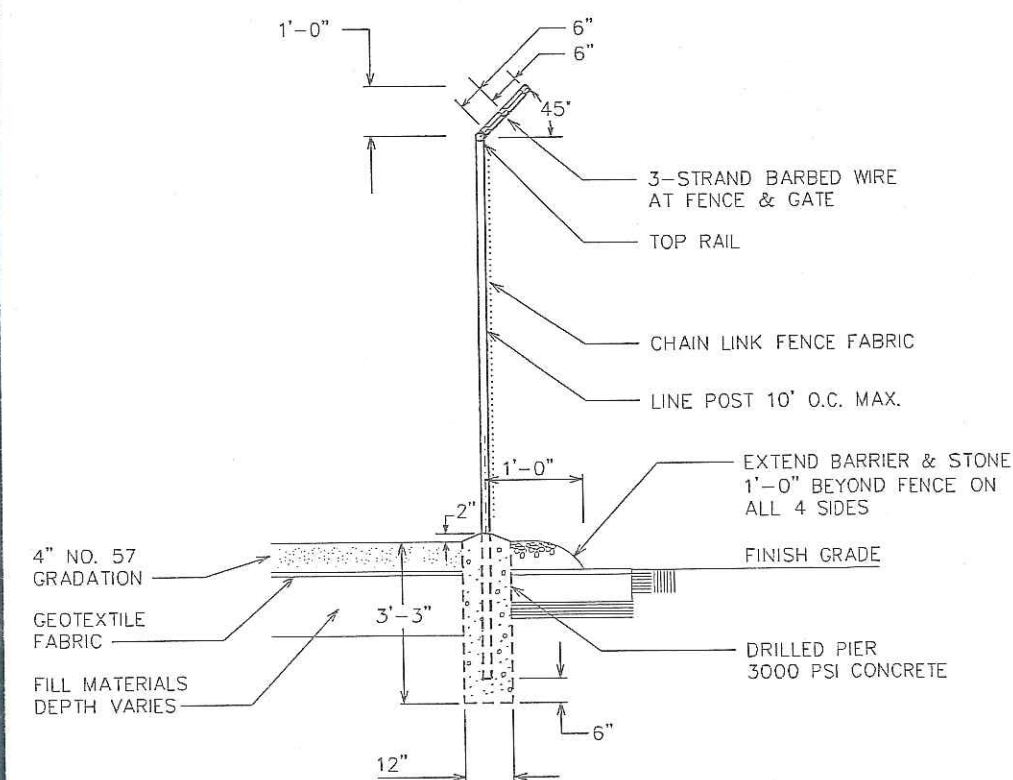
GATE STOP / KEEPER DETAIL

SCALE: N.T.S.



GATE DETENT DETAIL


SCALE: N.T.S.



FENCE / BARBED WIRE ARM DETAIL

SCALE: N.T.S.

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In case of emergency or prior to performing maintenance on this site, call 1-800-638-2822 and reference cell site number:

- ① WHITE/BLUE BACKGROUND W/ BLACK LETTERING
QUANTITY: (1)
SIZE: 9"x12"
(TO BE MOUNTED ON UNIVERSAL POWER CABINET DOOR ADJACENT TO COMPOUND ENTRY - SEE NOTE 3)

NO TRESSPASSING
VIOLATORS WILL BE PROSECUTED

property of



AMERICAN TOWER CORPORATION
400 REGENCY FOREST DR.
CARY, NC 27511

In case of emergency or prior to performing maintenance on this site, call 1-800-830-3365 and reference cell site number:

- ③ WHITE/RED BACKGROUND W/ BLACK LETTERING
QUANTITY: (4)
SIZE: 12"x12"
(ONE TO BE MOUNTED ON EACH SIDE OF COMPOUND FENCE)

**DO NOT CLIMB
TOWER WITHOUT
OWNER'S WRITTEN
PERMISSION**

- ④ WHITE BACKGROUND W/ RED LETTERING
QUANTITY: (1)
(TO BE MOUNTED AT EYE LEVEL ON TOWER NEAR SAFETY CLIMB)

NOTICE



Radio Frequency fields beyond this point may exceed the FCC general public exposure limit.

OBEY ALL POSTED SIGNS AND SITE GUIDELINES FOR WORKING IN RADIO FREQUENCY ENVIRONMENTS.

In accordance with Federal Communications Commission rules on radio frequency exposure 47 CFR 1.1307(b)

- ② WHITE/BLUE BACKGROUND W/ BLACK LETTERING
QUANTITY: (1)
(TO BE MOUNTED AT EYE LEVEL ON TOWER NEAR SAFETY CLIMB)

000

- ⑤ WHITE BACKGROUND W/ BLACK LETTERING
E911 STREET #
QUANTITY: (1 TYP)
LETTERS MUST BE A MINIMUM 6" TALL
(TO BE MOUNTED ON THE GATE OF COMPOUND)

- ① SITE IDENTIFICATION SIGN
② FCC/RF EXPOSURE SIGN
③ AUTHORIZED ENTRY SIGN
④ TOWER CLIMBING SIGN
⑤ STREET ADDRESS SIGN
⑥ INFORMATION RF EXPOSURE SIGN
⑦ TOWER REGISTRATION SIGN

INFORMATION

AMERICAN TOWER operates telecommunications equipment at this location.

Stay back a minimum of 3 feet from any antenna.

Obey all posted signs and guidelines.

Do not cross into areas restricted by striping and/or barriers.

Contact the owner(s) of the antenna(s) and follow their instructions prior to performing any repairs or maintenance within a restricted area of closer than 3 feet from the antenna.

Contact AMERICAN TOWER at 1-800-830-3365 prior to doing any work near AMERICAN TOWER structures. This is site #-----.

Contact the management office if this door/hatch/gate is found unlocked.

- ⑥ WHITE BACKGROUND W/ BLACK LETTERING
QUANTITY: (1) PER ACCESS GATE
(TO BE MOUNTED ON COMPOUND ACCESS GATE)

FCC TOWER REGISTRATION NO.:
0123456789

- ⑦ WHITE BACKGROUND W/ BLACK LETTERING
QUANTITY: (1)
(TO BE MOUNTED ON COMPOUND ACCESS GATE - SEE NOTE 5)
NOTE: NUMBER SHOWN IS GENERIC, CONTACT CONSTRUCTION MANAGER FOR ACTUAL FCC TOWER REG. #.

NOTES:

- SIGNS SHALL MEASURE 8"x12", BE FABRICATED FROM CORROSION RESISTANT PRESSED METAL, AND PAINTED WITH LONG LASTING UV RESISTANT COATINGS.
- SIGNS (EXCEPT WHERE NOTED OTHERWISE) SHALL BE MOUNTED TO THE TOWER, GATE AND FENCE USING A MINIMUM OF 9 GAUGE ALUMINUM WIRE, HOG RINGS (AS UTILIZED IN FENCE INSTALLATIONS) OR BRACKETS WHERE NECESSARY. BRACKETS SHALL BE OF SIMILAR METAL AS THE STRUCTURE TO AVOID GALVANIC CORROSION.
- AMERICAN TOWER SITE # AND EMERGENCY CONTACT # SHALL BE MOUNTED ON THE UNIVERSAL POWER CABINET DOOR ADJACENT TO THE COMPOUND ENTRY WITH PERMANENT SET ADHESIVE. TWO-SIDED TAPE SHALL BE UTILIZED AT EACH CORNER ON THE BACKSIDE TO AID PLACEMENT UNTIL ADHESIVE SETS.
- ADDITIONAL E911 ADDRESS SIGNS ARE REQUIRED AT EACH ACCESS ROAD GATE LEADING TO THE COMPOUND AS WELL AS ON THE COMPOUND GATE ITSELF. LETTERING ON E911 ADDRESS SIGNS MUST BE A MINIMUM OF 6" TALL.
- ADDITIONAL FCC REGISTRATION # SIGNS ARE REQUIRED AT EACH ACCESS ROAD GATE LEADING TO THE COMPOUND AS WELL AS ON THE COMPOUND GATE ITSELF.
- RECOMMENDED SOURCE FOR OBTAINING SIGNAGE:

ST. CLAIR SIGNS
3184 WADE HAMPTON BLVD.
TAYLORS, SC 29687
(864) 244-0040

RF EXPOSURE SIGNS
RICHARD TELL ASSOCIATES
3433 RINGSTAR ROAD, SUITE 3
NORTH LAS VEGAS, NV 89030
(702) 645-3338

PLANS PREPARED FOR:



AMERICAN TOWER CORPORATION
400 REGENCY FOREST DRIVE
CARY, NC 27511

PROJECT INFORMATION:

AT&T SITE #: 368-545
ATC#: 280373
MEACHAM NC
POYTHRESS ROAD
CHAPEL HILL, NC 27516
(CHATHAM COUNTY)

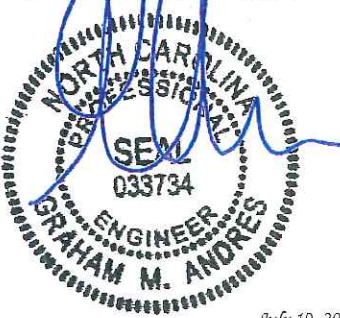
PLANS PREPARED BY:



TOWER ENGINEERING PROFESSIONALS
3703 JUNCTION BOULEVARD
RALEIGH, NC 27603-5263
OFFICE: (919) 661-6351
www.tepgroup.net

N.C. LICENSE # C-1794

SEAL:



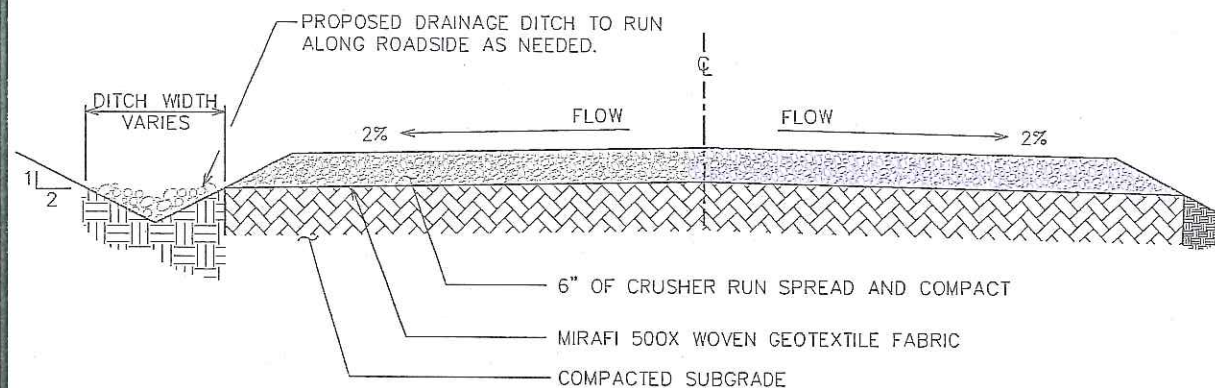
July 19, 2013

I	07-19-13	CONSTRUCTION
O	05-22-13	PRELIMINARY
REV	DATE	ISSUED FOR:
DRAWN BY: SCB		CHECKED BY: GMA

SHEET TITLE:

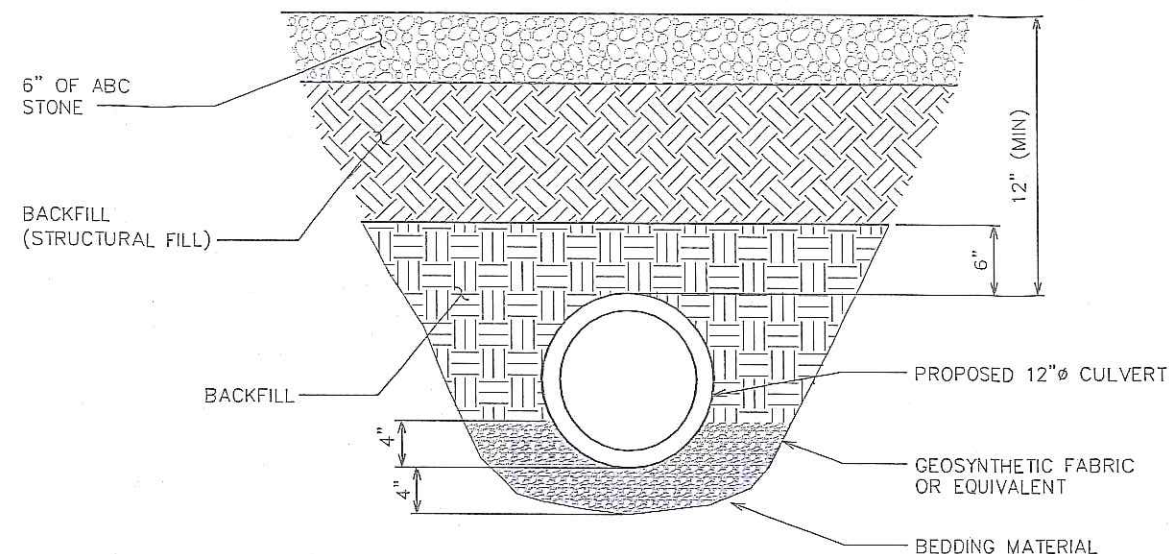
**SIGNAGE
DETAILS**

SHEET NUMBER:	REVISION:
C-11	1
	TEP #: 131501



STANDARD ROAD SECTION (GOOD SUBGRADE)

SCALE: $\frac{3}{8}" = 1'-0"$

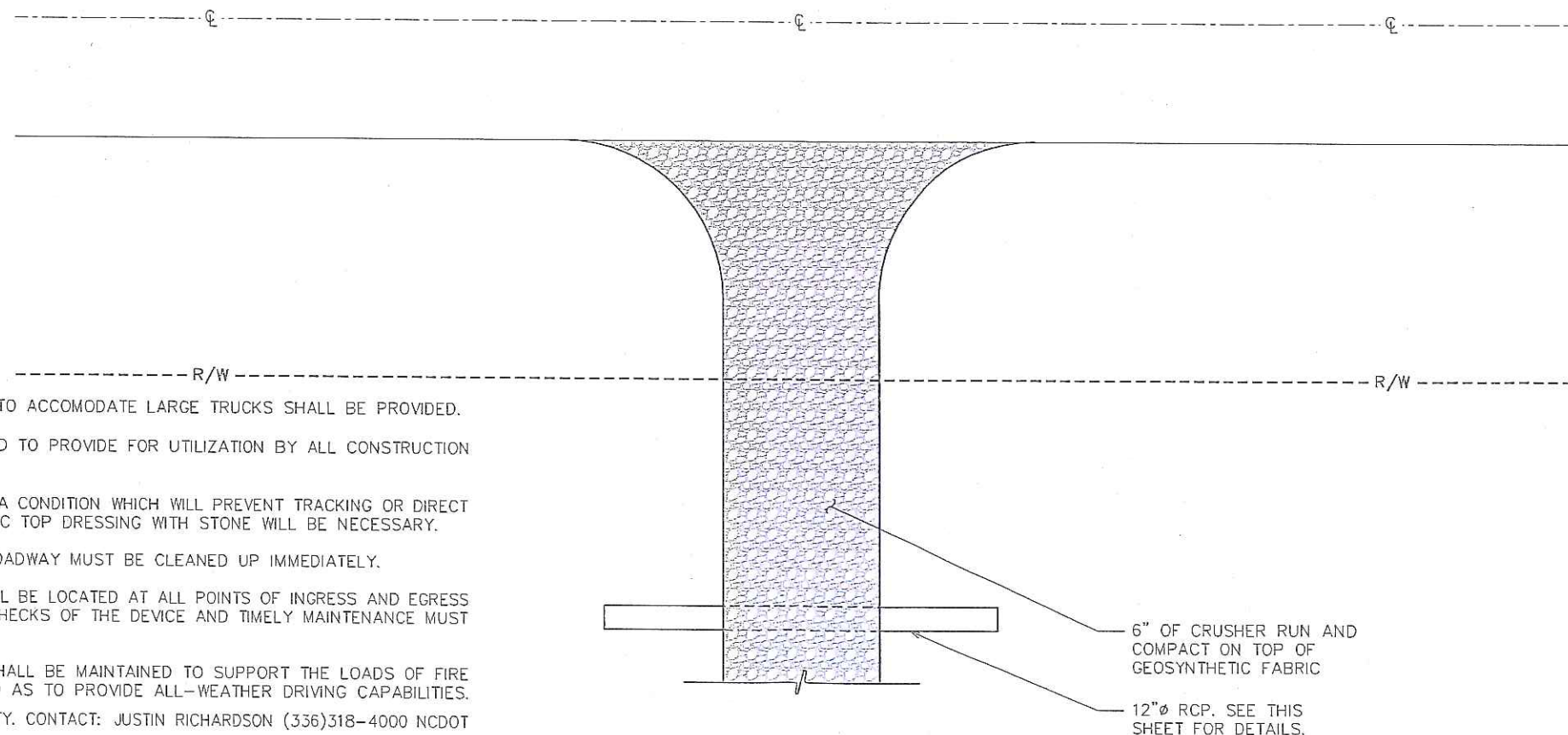


CULVERT DETAIL

SCALE: $\frac{3}{4}" = 1'-0"$

0 1 2
SCALE IN FEET

POYTHRESS RD



NOTES:

- TURNING RADIUS THAT IS SUFFICIENT TO ACCOMMODATE LARGE TRUCKS SHALL BE PROVIDED.
- THE ENTRANCE(S) SHOULD BE LOCATED TO PROVIDE FOR UTILIZATION BY ALL CONSTRUCTION VEHICLES.
- ENTRANCE(S) MUST BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR DIRECT FLOW OF MUD ONTO STREETS. PERIODIC TOP DRESSING WITH STONE WILL BE NECESSARY.
- ANY MATERIAL TRACKED ONTO THE ROADWAY MUST BE CLEANED UP IMMEDIATELY.
- GRAVEL CONSTRUCTION ENTRANCE SHALL BE LOCATED AT ALL POINTS OF INGRESS AND EGRESS UNTIL SITE IS STABILIZED. FREQUENT CHECKS OF THE DEVICE AND TIMELY MAINTENANCE MUST BE PROVIDED.
- ACCESS ROADS ARE DESIGNED AND SHALL BE MAINTAINED TO SUPPORT THE LOADS OF FIRE APPARATUS AND SHALL BE SURFACED AS TO PROVIDE ALL-WEATHER DRIVING CAPABILITIES.
- DRIVEWAY DETAILS PER CHATHAM COUNTY. CONTACT: JUSTIN RICHARDSON (336)318-4000 NCDOT

STABILIZED CONSTRUCTION ENTRANCE

SCALE: N.T.S.

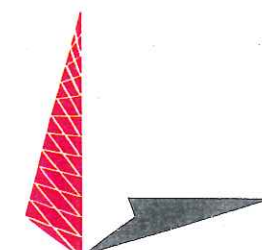
PLANS PREPARED FOR:



PROJECT INFORMATION:

AT&T SITE #: 368-545
ATC#: 280373
MEACHAM NC
POYTHRESS ROAD
CHAPEL HILL, NC 27516
(CHATHAM COUNTY)

PLANS PREPARED BY:



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www.tepgroup.net

N.C. LICENSE # C-1794

SEAL:



July 19, 2013

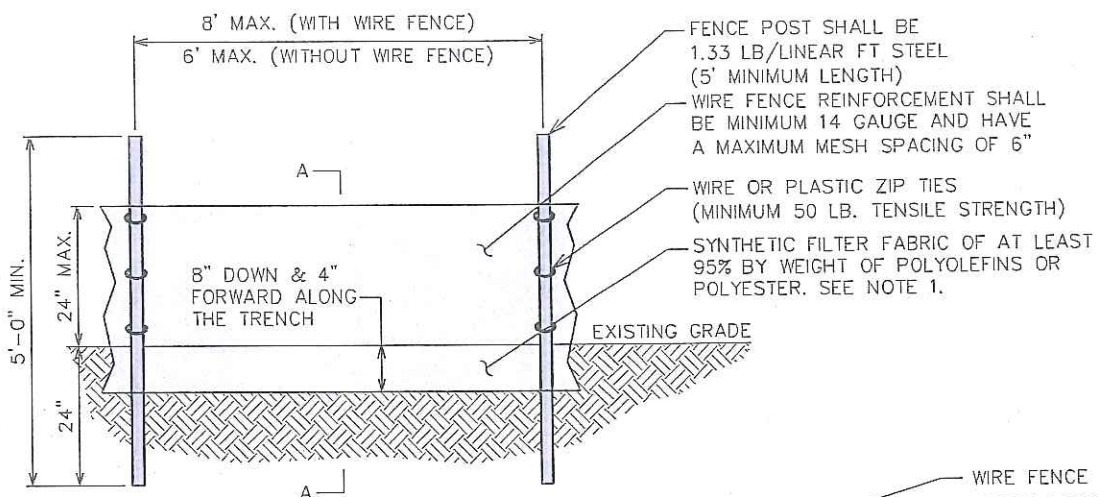
REV	DATE	ISSUED FOR:
1	07-19-13	CONSTRUCTION
0	05-22-13	PRELIMINARY

DRAWN BY: MSQ CHECKED BY: GMA

SHEET TITLE:

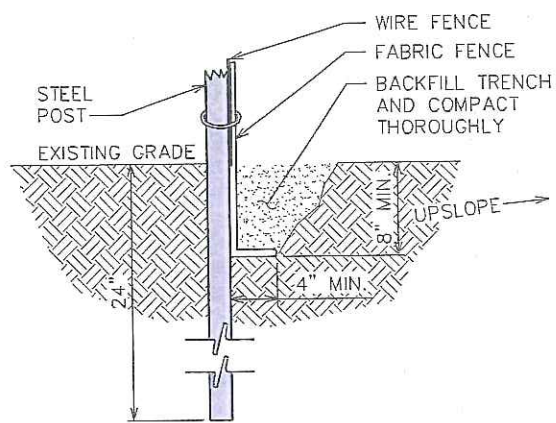
CULVERT &
DRIVEWAY
DETAILS

SHEET NUMBER: **C-12**
REVISION: **1**
TEP #: 131501



NOTES:

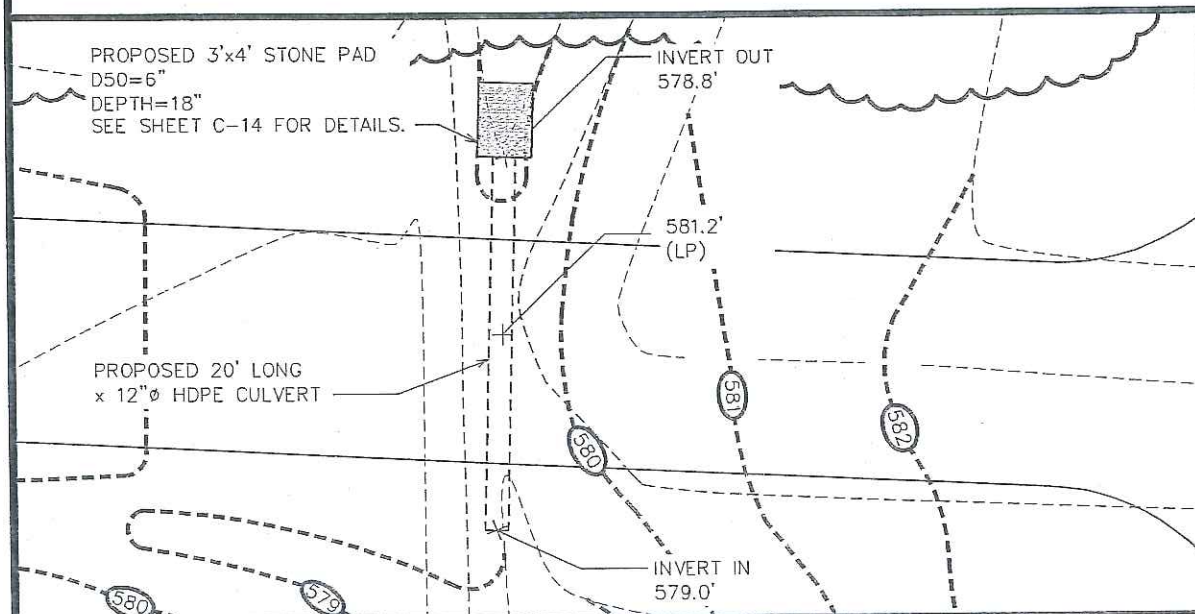
1. FILTER FABRIC SHALL CONFORM TO THE REQUIREMENTS LISTED IN ASTM D 6461.
2. ENDS OF INDIVIDUAL FILTER FABRIC SHALL BE SECURELY FASTENED AT A SUPPORT POST WITH 4 FEET MINIMUM OVERLAP TO THE NEXT POST
3. PLACE 12 INCHES OF FABRIC ALONG THE BOTTOM AND SIDE OF THE TRENCH.
4. INSPECT SEDIMENT FENCE(S) AT LEAST ONCE A WEEK AND AFTER EACH RAINFALL.
5. REMOVE SEDIMENT DEPOSITS AS NECESSARY TO PROVIDE ADEQUATE STORAGE VOLUME FOR THE NEXT RAIN AND TO REDUCE PRESSURE ON THE FENCE.
6. AFTER CONSTRUCTION IS COMPLETE, THE CONTRACTOR SHALL REMOVE ALL FENCING MATERIALS AND UNSTABLE SEDIMENT DEPOSITS, BRING THE AREA TO GRADE AND PROPERLY STABILIZE THE SITE.



SECTION A-A

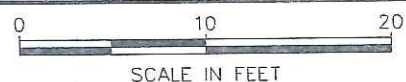
STANDARD SILT FENCE DETAIL

SCALE: N.T.S.



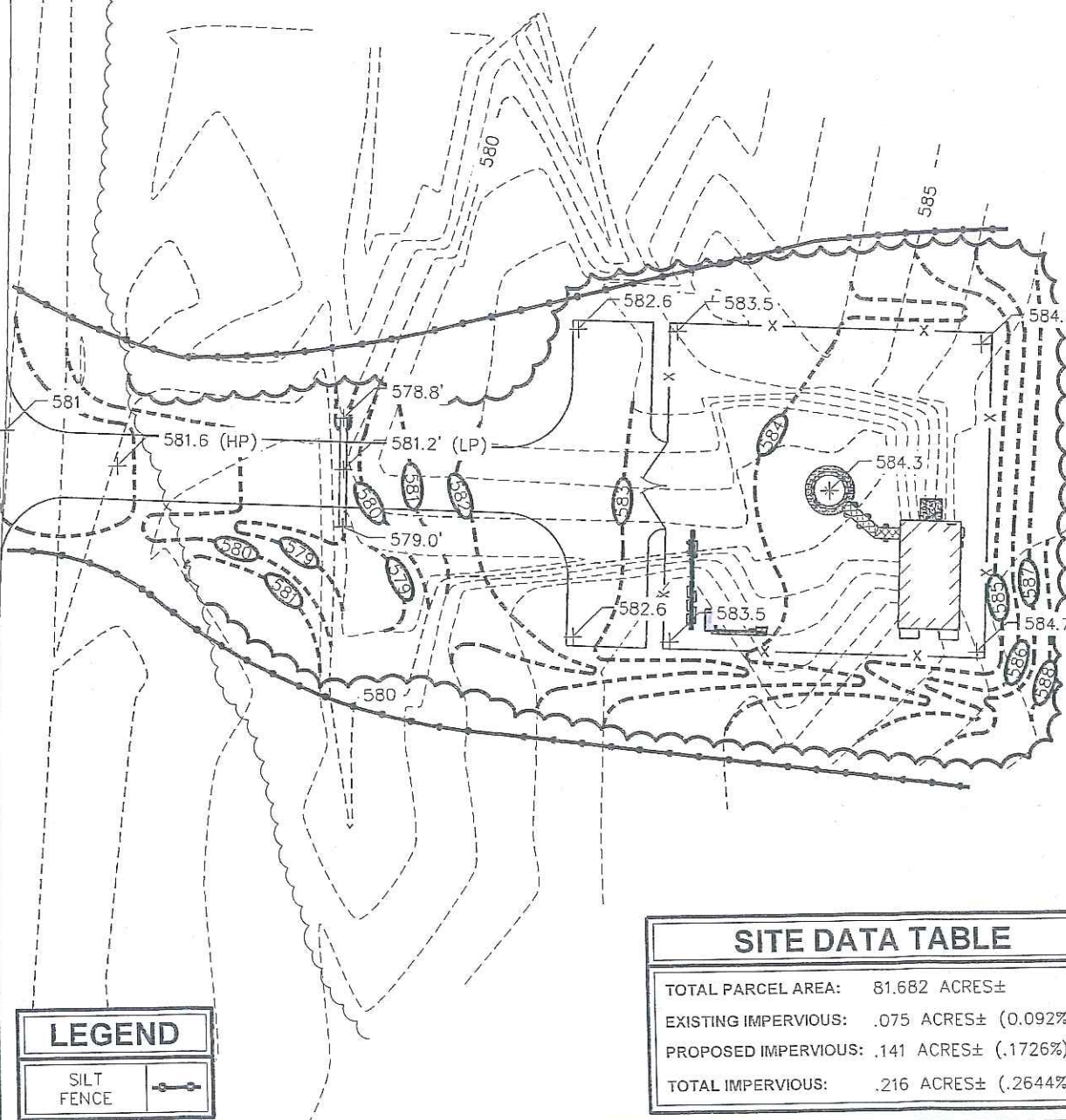
CULVERT DETAILS

SCALE: 1" = 10'



GRADING NOTE:

CONTRACTOR SHALL ENSURE POSITIVE DRAINAGE ACROSS COMPOUND.



LEGEND

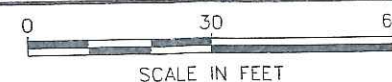
SILT FENCE

SOIL & EROSION CONTROL PLAN

SCALE: 1" = 30'

SITE DATA TABLE

TOTAL PARCEL AREA:	81.682 ACRES±
EXISTING IMPERVIOUS:	.075 ACRES± (0.092%)
PROPOSED IMPERVIOUS:	.141 ACRES± (.1726%)
TOTAL IMPERVIOUS:	.216 ACRES± (.2644%)



PLANS PREPARED FOR:

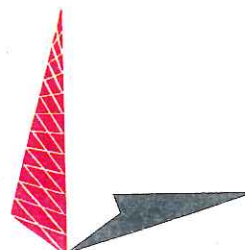


AMERICAN TOWER CORPORATION
400 REGENCY FOREST DRIVE
CARY, NC 27511

PROJECT INFORMATION:

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ATC#: 280373
MEACHAM NC
POYTHRESS ROAD
CHAPEL HILL, NC 27516
(CHATHAM COUNTY)

PLANS PREPARED BY:



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3703 JUNCTION BOULEVARD
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SEAL:



July 19, 2013

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DRAWN BY: KWJ CHECKED BY: GMA

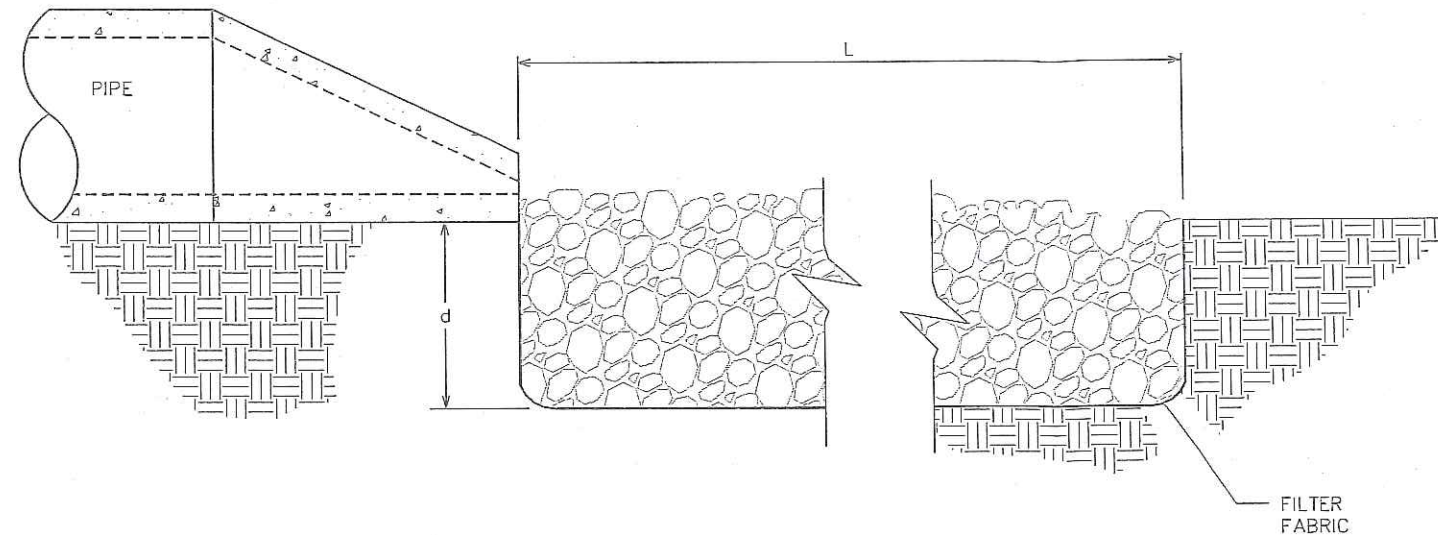
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SOIL & EROSION CONTROL PLAN

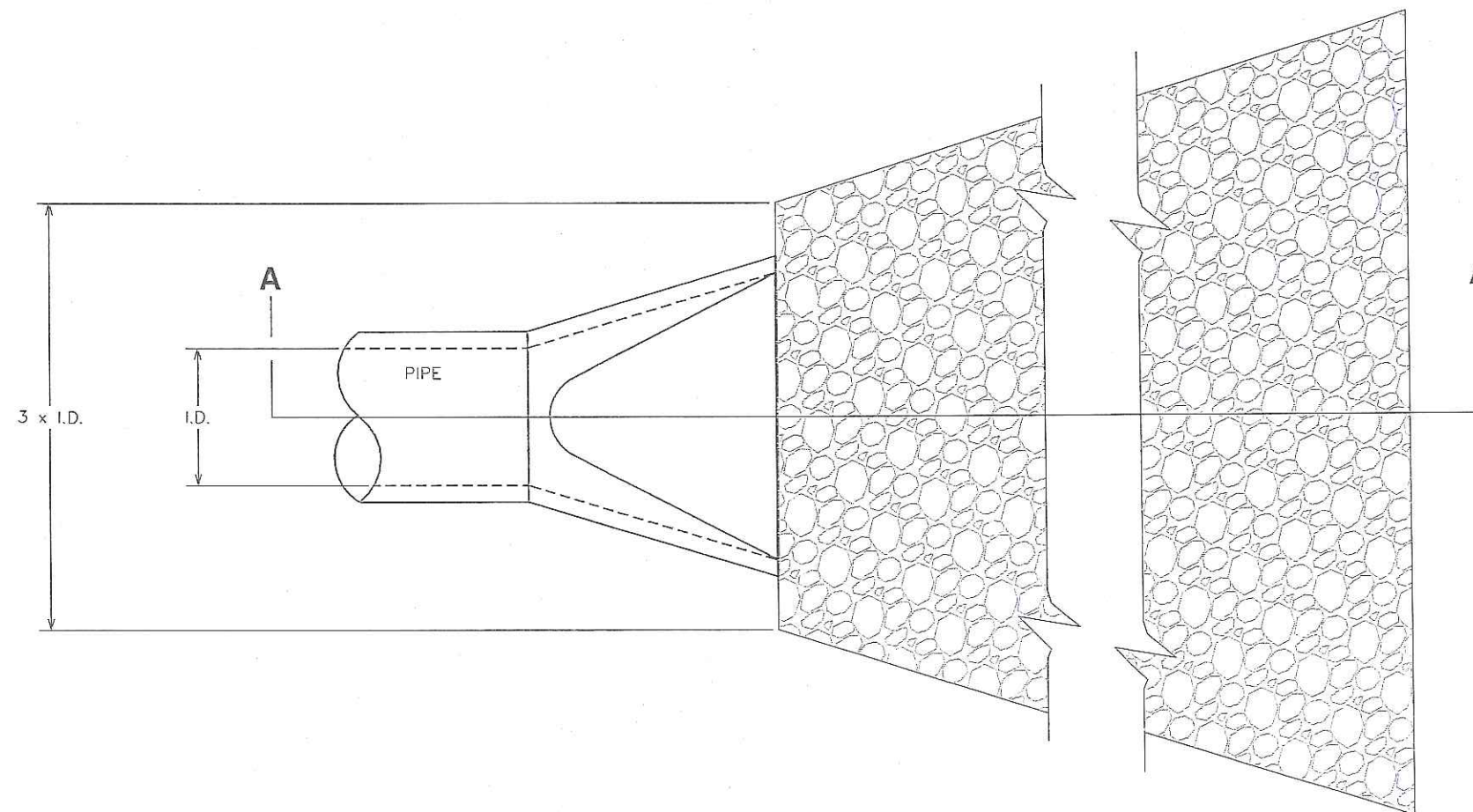
SHEET NUMBER: C-13

REVISION: 1

TEP #: 131501



SECTION 'A-A'



PLAN VIEW

NOTES:

1. L = THE LENGTH OF THE RIPRAP APRON.
2. d = 1.5 TIMES THE MAXIMUM STONE DIAMETER BUT NOT LESS THAN 6" (INCHES).
3. A FILTER BLANKET OR FILTER FABRIC SHOULD BE INSTALLED BETWEEN THE RIPRAP AND SOIL FOUNDATION.

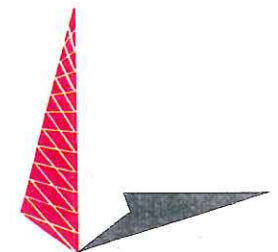
PLANS PREPARED FOR:



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SEAL:



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0	05-22-13	PRELIMINARY

DRAWN BY: JJC CHECKED BY: GMA

SHEET TITLE:

PIPE OUTLET PROTECTION DETAILS

SHEET NUMBER:	REVISION:
C-14	1
	TEP #: 131501

PIPE OUTLET PROTECTION

SCALE: N.T.S.

ELECTRICAL NOTES:

SCOPE:

1. SHALL INCLUDE ALL LABOR, MATERIALS AND APPLIANCES REQUIRED FOR THE FURNISHING, INSTALLING AND TESTING, COMPLETE AND READY FOR OPERATION OF ALL WORK SHOWN ON THE DRAWING AS SPECIFIED HEREIN:
1. ELECTRIC SERVICE

2. CONDUIT AND RACEWAY

3. CONDUCTORS
4. MISCELLANEOUS MATERIALS

5. TELEPHONE CONDUITS

6. LIGHTNING ARRESTING SYSTEM

CODES

1. THE INSTALLATION SHALL COMPLY WITH ALL APPLICABLE LAWS AND CODES. THESE INCLUDE BUT ARE NOT LIMITED TO THE LATEST EDITIONS OF:
- A. THE NATIONAL ELECTRICAL SAFETY CODE

B. THE NATIONAL ELECTRIC CODE – NFPA-70

C. THE INTERNATIONAL ELECTRIC CODE – IBC

D. LOCAL AND STATE AMENDMENTS

E. REGULATIONS OF THE SERVING UTILITY COMPANY

F. NCEC
2. ALL PERMITS REQUIRED SHALL BE OBTAINED BY THE CONTRACTOR.
3. AFTER COMPLETION AND FINAL INSPECTION OF THE WORK, THE OWNER SHALL BE FURNISHED A CERTIFICATE OF COMPLETION AND APPROVAL.

TESTING

1. UPON COMPLETION OF THE INSTALLATION, OPERATE AND ADJUST ALL EQUIPMENT AND SYSTEMS TO MEET SPECIFIED PERFORMANCE REQUIREMENTS. ALL TESTING SHALL BE DONE BY QUALIFIED PERSONNEL.

GUARANTEE

1. IN ADDITION TO THE GUARANTEE OF THE EQUIPMENT BY THE MANUFACTURER, EACH PIECE OF EQUIPMENT SPECIFIED HEREIN SHALL ALSO BE GUARANTEED FOR DEFECTS OF MATERIAL OR WORKMANSHIP OCCURRING DURING A PERIOD OF ONE (1) YEAR FROM FINAL ACCEPTANCE OF THE WORK BY THE OWNER. WITHOUT EXPENSE TO THE OWNER ALL WARRANTY CERTIFICATES & GUARANTEES FURNISHED BY THE MANUFACTURERS SHALL BE TURNED OVER TO THE OWNER.

CO-ORDINATION:

1. CONTRACTOR SHALL COORDINATE ALL WORK WITH THE POWER AND TELEPHONE COMPANIES AND SHALL COMPLY WITH ALL SERVICE REQUIREMENTS OF EACH UTILITY COMPANY.

EXAMINATION OF SITE

1. PRIOR TO BEGINNING WORK, THE CONTRACTOR SHALL VISIT THE SITE OF THE JOB AND SHALL FAMILIARIZE HIMSELF WITH ALL CONDITIONS AFFECTING THE PROPOSED ELECTRICAL INSTALLATION AND SHALL MAKE PROVISIONS AS TO THE COST THEREOF. FAILURE TO COMPLY WITH THE INTENT OF THIS PARAGRAPH WILL IN NO WAY RELIEVE THE CONTRACTOR OF PERFORMING ALL WORK NECESSARY FOR A COMPLETE AND WORKING SYSTEM OR SYSTEMS.

CUTTING, PATCHING AND EXCAVATION:

1. COORDINATION OF ALL SLEEVES, CHASES, ETC., WILL BE REQUIRED PRIOR TO THE CONSTRUCTION OF ANY PORTION OF THE WORK. ALL CUTTING AND PATCHING OF WALLS, PARTITIONS, FLOORS, AND CHASES IN CONCRETE, WOOD, STEEL OR MASONRY SHALL BE DONE AS PROVIDED ON THE DRAWINGS.
2. ALL NECESSARY EXCAVATIONS AND BACKFILLING INCIDENTAL TO THE WORK UNLESS SPECIFICALLY NOTED OTHERWISE ON THE DRAWING SHALL BE PROVIDED BY THIS CONTRACTOR.
3. SEAL ALL PENETRATION THROUGH WALL AND FLOORS WITH APPROVED GROUT.

EXTERIOR CONDUIT:

1. ALL EXPOSED CONDUIT SHALL BE NEATLY INSTALLED AND RUN PARALLEL OR PERPENDICULAR TO STRUCTURAL ELEMENTS, SUPPORTS AND MOUNTING HARDWARE SHALL BE HOT DIPPED GALVANIZED STEEL.

RACEWAYS

1. ALL CONDUCTORS SHALL BE INSTALLED IN CONDUIT. ALL CONDUIT SHALL BE RIGID STEEL, EMT OR SCH40 PVC AS INDICATED ON THE DRAWINGS.
2. WHERE INSTALLED ON EXTERIORS AND EXPOSED TO DAMAGE, ALL CONDUIT SHALL BE RIGID STEEL. ALUMINUM CONDUIT SHALL NOT BE ALLOWED.
3. CONCEALED CONDUIT IN WALLS OR INTERIOR SPACES ABOVE GRADE MAY BE EMT.
4. UNDERGROUND CONDUITS SHALL BE RIGID STEEL OR SCHEDULE 40 PVC AS INDICATED ON THE DRAWINGS.
5. ALL CONDUIT RUNS SHALL USE APPROVED COUPLINGS AND CONNECTORS. PROVIDE INSULATED BUSHING FOR ALL CONDUIT TERMINATIONS. ALL CONDUIT RUNS IN A WET LOCATION SHALL HAVE WATERPROOF FITTINGS.
6. PROVIDE SUPPORTS FOR ALL CONDUITS IN ACCORDANCE WITH NEC REQUIREMENTS. ALL CONDUITS SHALL BE SIZED AS REQUIRED BY NEC.
7. BURIAL DEPTH OF ALL CONDUITS SHALL BE AS REQUIRED BY CODE FOR EACH SPECIFIC CONDUIT TYPE AND APPLICATION.
8. CONDUIT ROUTES ARE SCHEMATIC. CONTRACTOR SHALL FIELD VERIFY BEFORE BID. COORDINATE ROUTE WITH WIRELESS CARRIER AND BUILDING OWNER.

EQUIPMENT:

1. ALL DISCONNECT SWITCHES SHALL BE SERVICE ENTRANCE RATED, HEAVY DUTY TYPE.
2. NEW CIRCUIT BREAKERS SHALL BE RATED TO WITHSTAND THE MAXIMUM AVAILABLE FAULT CURRENT AS DETERMINED BY THE LOCAL UTILITY. CONTRACTOR SHALL VERIFY MAXIMUM AVAILABLE FAULT CURRENT, AND COORDINATE INSTALLATION WITH THE LOCAL UTILITY BEFORE STARTING WORK.

CONDUCTORS

1. FURNISH AND INSTALL CONDUCTORS CALLED FOR IN THE DRAWINGS. ALL CONDUCTORS SHALL HAVE TYPE THWN (MIN) (75° C) INSULATION, RATED FOR 600 VOLTS.
2. ALL CONDUCTORS SHALL BE COPPER, THE USE OF ALUMINUM CONDUCTORS SHALL NOT BE ALLOWED. ALL CONDUCTORS SHALL BE UL LISTED AND SHALL BE PROVIDED AND INSTALLED AS FOLLOWS:
- A. MINIMUM WIRE SIZE SHALL BE #12 AWG.

B. ALL CONDUCTORS SIZE #8 AND LARGER SHALL BE STRANDED. CONDUCTORS SIZED #10 AND SMALLER MAY BE SOLID OR STRANDED.

C. CONNECTION FOR #10 AWG AND SMALLER SHALL BE BY TWISTING TIGHT AND INSTALLING INSULATED PRESSURE OR WIRE NUT CONNECTIONS.

D. CONNECTION FOR #8 AWG AND LARGER SHALL BE BY USE OF STEEL CRIMP-ON SLEEVES WITH NYLON INSULATOR.
3. ALL CONDUCTORS SHALL BE COLOR CODED IN ACCORDANCE WITH NEC STANDARDS.
4. THE RACEWAY SYSTEM SHALL BE COMPLETE BEFORE INSTALLING CONDUCTORS

PENETRATIONS:

1. CONTRACTOR SHALL COMPLY WITH UL PENETRATION DETAILS FOR PENETRATIONS OF ALL RATED WALLS, ROOF, ETC.

GROUNDING

1. ALL ELECTRICAL NEUTRALS, RACEWAYS AND NON-CURRENT CARRYING PARTS OF ELECTRICAL EQUIPMENT AND ASSOCIATED ENCLOSURES SHALL BE GROUNDED IN ACCORDANCE WITH NEC ARTICLE 250. THIS SHALL INCLUDE NEUTRAL CONDUCTORS, CONDUITS, SUPPORTS, CABINETS, BOXES, GROUND BUSES, ETC. THE NEUTRAL CONDUCTOR FOR EACH SYSTEM SHALL BE GROUNDED BY ONE POINT ONLY.
2. PROVIDE GROUND CONDUCTOR IN ALL RACEWAYS.
3. PROVIDE BONDING AND GROUND TO MEET NFPA 780 – LIGHTNING PROTECTION AS A MINIMUM.
4. PROVIDE GROUNDING SYSTEM AS INDICATED ON THE DRAWINGS, AS REQUIRED BY THE NATIONAL ELECTRIC CODE AND RADIO EQUIPMENT MANUFACTURER.

ABBREVIATIONS AND LEGEND

- A – AMPERE

AFG – ABOVE FINISHED GRADE

ATS – AUTOMATIC TRANSFER SWITCH

AWG – AMERICAN WIRE GAUGE

BCW – BARE COPPER WIRE

BFG – BELOW FINISHED GRADE

BKR – BREAKER

C – CONDUIT

CKT – CIRCUIT

DISC – DISCONNECT

EGR – EXTERNAL GROUND RING

EMT – ELECTRIC METALLIC TUBING

FSC – FLEXIBLE STEEL CONDUIT

GEN – GENERATOR

GPS – GLOBAL POSITIONING SYSTEM

GRD – GROUND

IGB – ISOLATED GROUND BAR

IGR – INTERIOR GROUND RING (HALO)

KW – KILOWATTS

NEC – NATIONAL ELECTRIC CODE

PCS – PERSONAL COMMUNICATION SYSTEM

PH – PHASE

PNL – PANEL

PNLBD – PANELBOARD

- PVC – SCH40 RIGID NON-METALLIC CONDUIT

RGS – RIGID GALVANIZED STEEL CONDUIT

SW – SWITCH

TGB – TOWER GROUND BAR

UL – UNDERWRITERS LABORATORIES

V – VOLTAGE

W – WATTS

XFMR – TRANSFORMER

XMTR – TRANSMITTER

- E---- UNDERGROUND ELECTRICAL CONDUIT

----T---- UNDERGROUND TELEPHONE CONDUIT

KILOWATT-HOUR METER

----- UNDERGROUND BONDING AND GROUNDING CONDUCTOR.

GROUND ROD

CADWELD

GROUND ROD WITH INSPECTION WELL

PLANS PREPARED FOR:

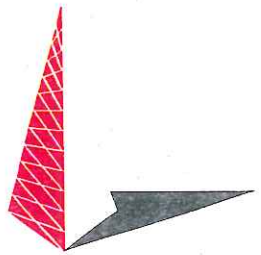


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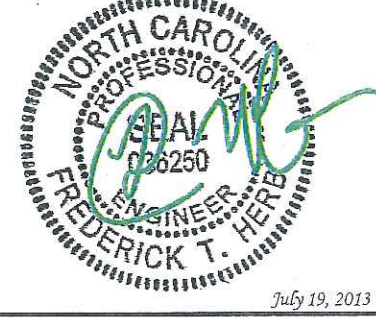
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DRAWN BY: SCB | CHECKED BY: FTH

SHEET TITLE:

ELECTRICAL
NOTES

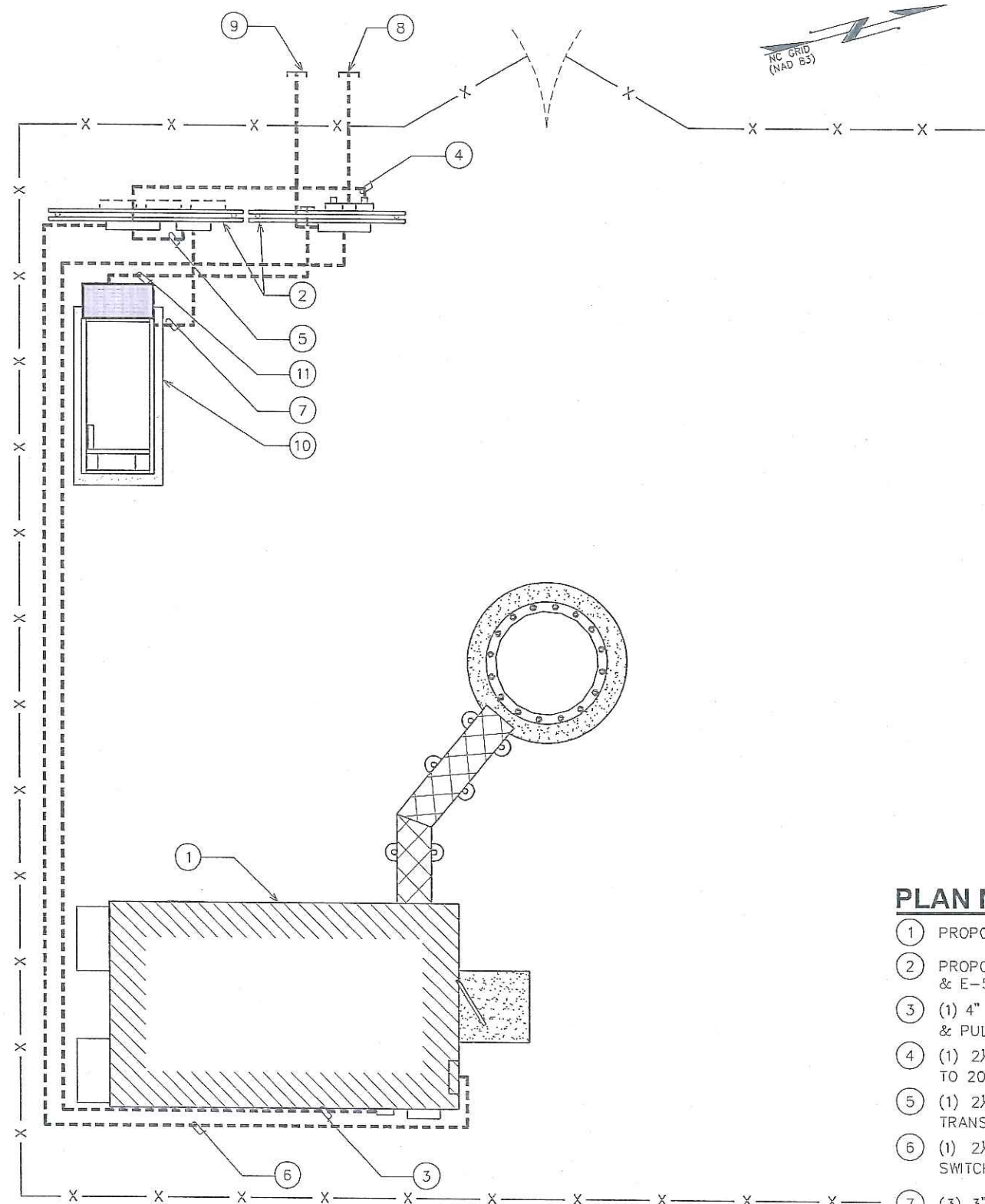
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E-1

REVISION:

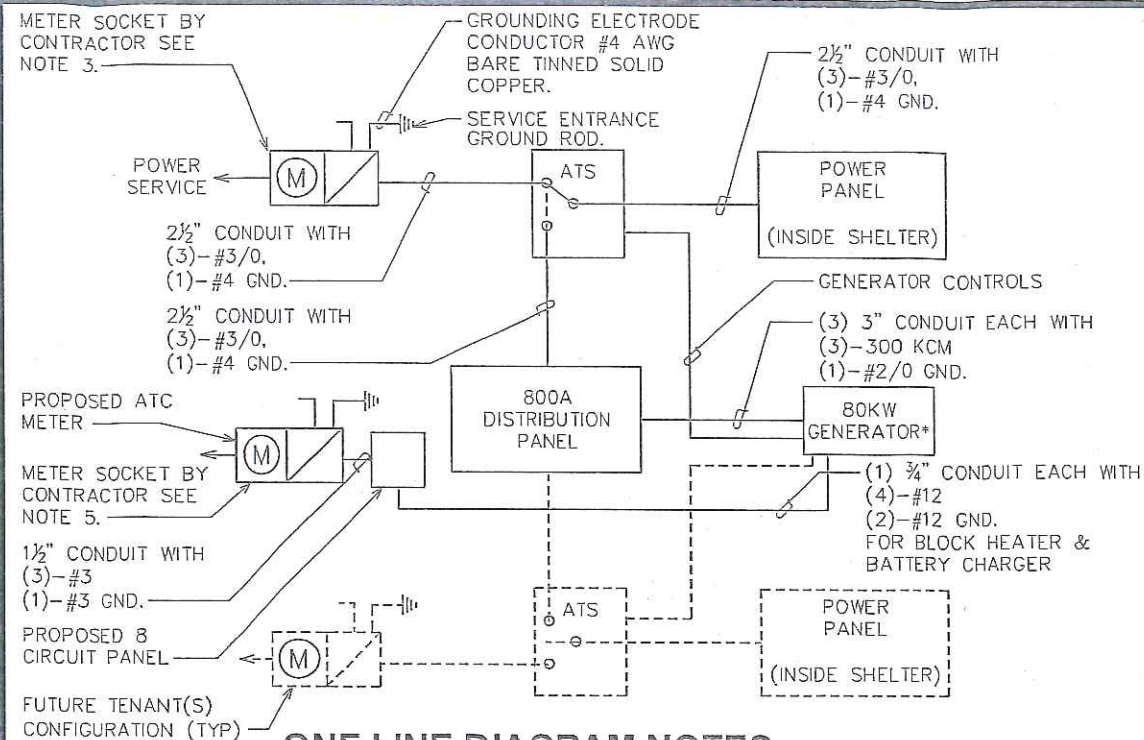
1

TEP #: 131501



SERVICE ROUTING PLAN

SCALE: $\frac{1}{8}" = 1'-0"$



ONE LINE DIAGRAM NOTES:

1. ELECTRICAL SERVICE SHALL BE 120/240V, 1Ø, 3W, 200A.
2. PROVIDE SERVICE ENTRANCE RATED CIRCUIT BREAKER TYPE DISCONNECT SWITCH.
3. INSTALL A 200 AMP METER BASE AS DIRECTED BY THE UTILITY COMPANY.
4. CONTRACTOR TO VERIFY BATTERY CHARGER AND BLOCK HEATER LOADING.
5. INSTALL A 100 AMP METER BASE AS DIRECTED BY THE UTILITY COMPANY.

*80KW GENERATOR TO BE SUPPLIED WITH MAIN LINE CIRCUIT BREAKER NOT TO EXCEED THE MAXIMUM STANDBY OUTPUT OR 400A.

ONE LINE DIAGRAM

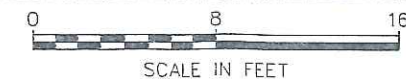
SCALE: N.T.S.

PLAN NOTES:

1. PROPOSED AT&T EQUIPMENT SHELTER.
2. PROPOSED H-FRAMES SEE SHEETS E-5 & E-5A FOR DETAILS
3. (1) 4" TELCO CONDUIT W/ (3) 1" FLEX INTERDUCT & PULL STRING FOR FIBER POWER LEADS.
4. (1) 2 1/2" POWER CONDUIT FROM PROPOSED METER TO 200A AUTOMATIC TRANSFER SWITCH.
5. (1) 2 1/2" POWER CONDUIT FROM 200A AUTOMATIC TRANSFER SWITCH TO 800A DISTRIBUTION PANEL.
6. (1) 2 1/2" POWER CONDUIT FROM 200A AUTOMATIC TRANSFER SWITCH TO TENANT SHELTER DISTRIBUTION PANEL.
7. (3) 3" POWER CONDUIT FROM THE PROPOSED GENERATOR TO THE 800A DISTRIBUTION PANEL
8. PROPOSED (2) 4" POWER CONDUIT STUBBED UP 3' OUTSIDE FENCE. CONTRACTOR TO COORDINATE SERVICE WITH LOCAL POWER COMPANY.
9. PROPOSED (2) 4" TELCO CONDUITS STUBBED UP 3' OUTSIDE FENCE. CONTRACTOR TO COORDINATE SERVICE WITH LOCAL TELEPHONE COMPANY.
10. PROPOSED GENERATOR. SEE DETAILS SHEETS C-6 AND C-7
11. AUTOMATIC START-UP AND INTER CARRIER CONTROL BY GENERATOR COMPANY.

TRENCHING NOTE:

PRIOR TO ANY DIGGING, THE CONTRACTOR SHALL IDENTIFY ALL EXISTING UTILITIES ON SITE.



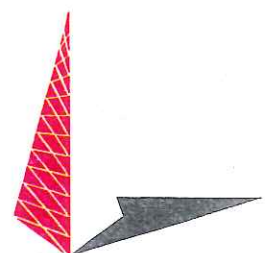
PLANS PREPARED FOR:



PROJECT INFORMATION:

AT&T SITE #: 368-545
ATC#: 280373
MEACHAM NC
POYTHRESS ROAD
CHAPEL HILL, NC 27516
(CHATHAM COUNTY)

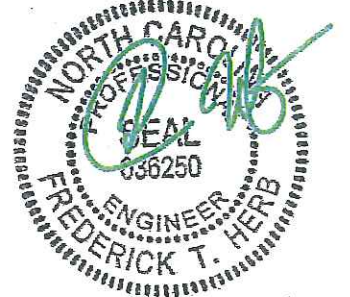
PLANS PREPARED BY:



TOWER ENGINEERING PROFESSIONALS
3703 JUNCTION BOULEVARD
RALEIGH, NC 27603-5263
OFFICE: (919) 661-6351
www.tepgroup.net

N.C. LICENSE # C-1794

SEAL:



REV	DATE	ISSUED FOR:
1	07-19-13	CONSTRUCTION
0	05-22-13	PRELIMINARY

DRAWN BY: CSN CHECKED BY: FTH

SHEET TITLE:

SERVICE ROUTING
PLAN & ONE-LINE
DIAGRAM

SHEET NUMBER:

E-2

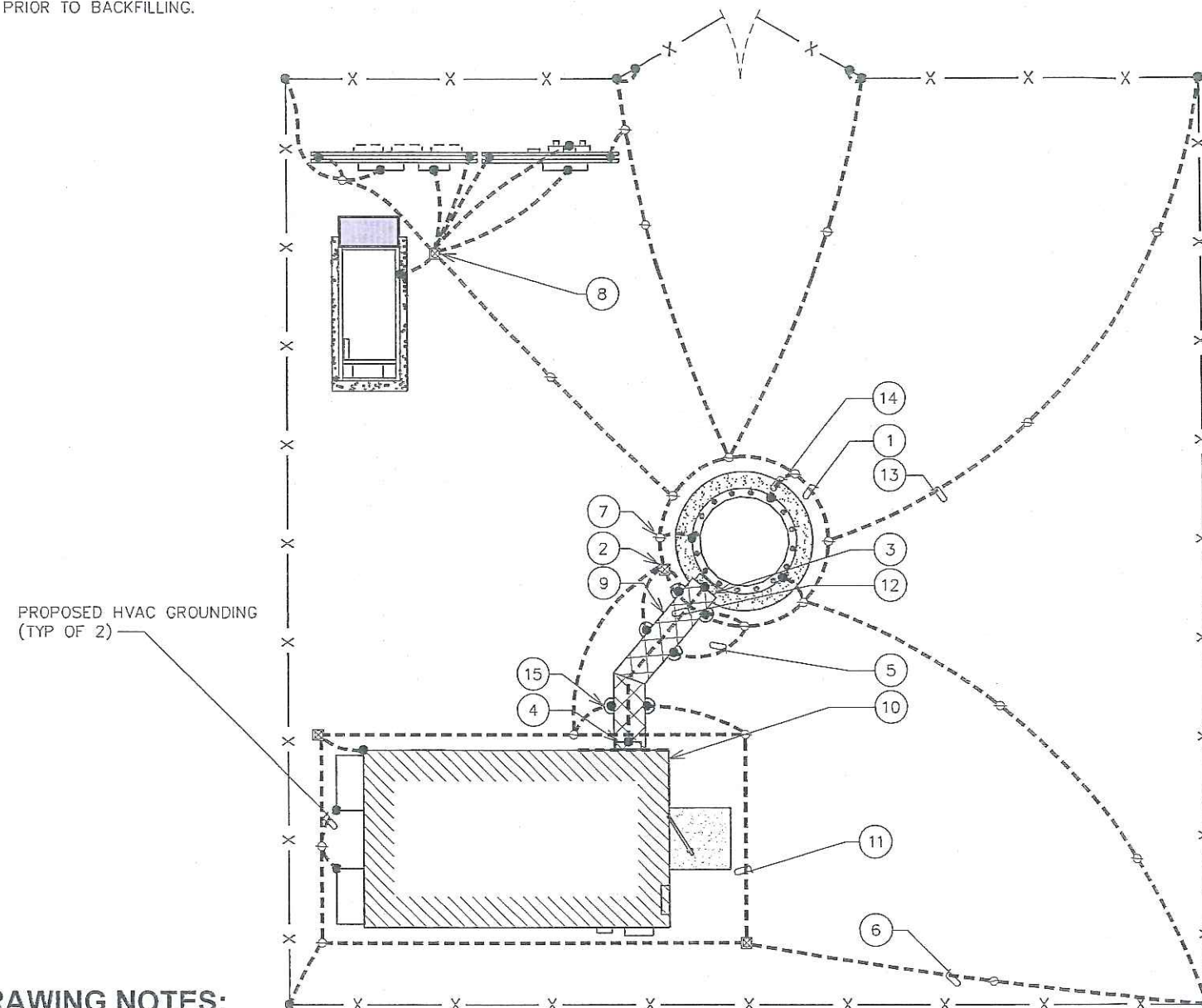
REVISION:

1

TEP #: 131501

GROUNDING NOTES

- GROUNDING ELECTRODES SHALL BE CONNECTED IN A RING USING #2 AWG BARE TINNED COPPER WIRE. THE TOP OF THE GROUND RODS AND THE RING CONDUCTOR SHALL BE 2 FEET BELOW FINISHED GRADE. GROUNDING ELECTRODES SHALL BE DRIVEN ON 10'-0" CENTERS. (MIN. 15'-0" MAX)
- BONDING OF THE GROUNDED CONDUCTOR (NEUTRAL) AND THE GROUNDING CONDUCTOR SHALL BE AT THE SERVICE DISCONNECTING MEANS/ BONDING JUMPER SHALL BE INSTALLED INSTALLED PER N.E.C. ARTICLE 250.30.
- CONTRACTOR SHALL NOTIFY THE CONSTRUCTION MANAGER WHEN THE GROUNDING SYSTEM IS COMPLETE. THE CONSTRUCTION MANAGER SHALL INSPECT THE GROUNDING SYSTEM PRIOR TO BACKFILLING.



DRAWING NOTES:

- | | | |
|---|---|---|
| ① PROPOSED TOWER GROUND RING | ⑥ #2 AWG BOND TO PROPOSED GROUND RING (TYP OF 2) | ⑪ #2 AWG GROUND RING BURIED 30" BFG |
| ② INSPECTION WELL AT CONNECTION TO PROPOSED GROUND RING | ⑦ 5/8" x 10' COPPER GROUND ROD (TYP) | ⑫ #2 AWG BARE SOLID TINNED COPPER WIRE BETWEEN BUS BARS |
| ③ TOWER BUS BAR | ⑧ SERVICE ENTRANCE GROUND ROD WITH INSPECTION WELL. SEE E-6 FOR DETAIL. | ⑬ TOWER BONDING TO FENCE (TYP OF 2) |
| ④ ICE BRIDGE BUS BAR | ⑨ ICE BRIDGE | ⑭ TOWER BONDING TO TOWER GROUND RING (TYP OF 3) |
| ⑤ #2 AWG ICE BRIDGE BOND BURIED 30" BFG (TYP) | ⑩ EQUIPMENT SHELTER | ⑮ ICE BRIDGE POST |

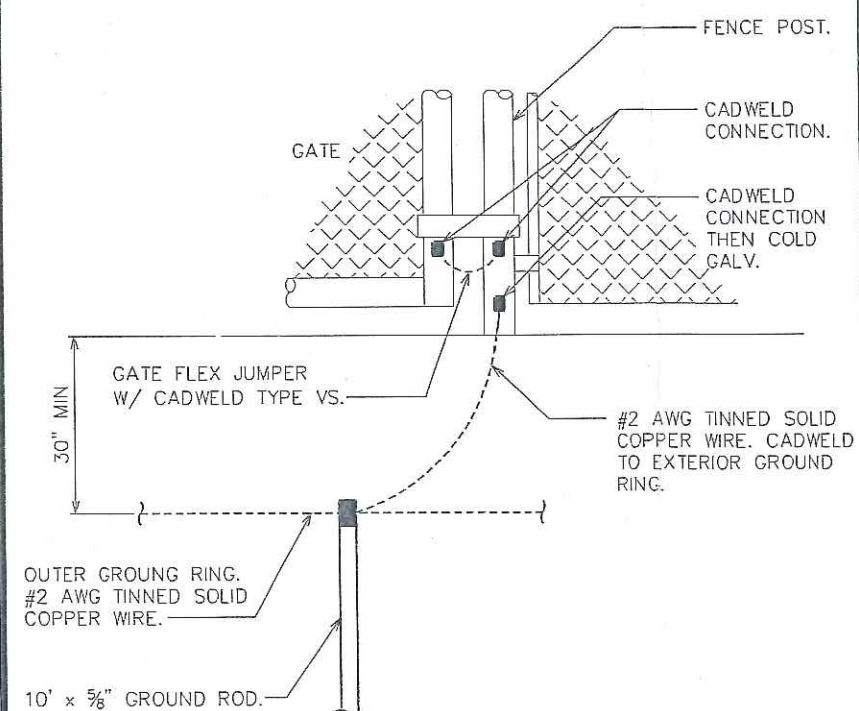
TOWER GROUNDING PLAN

SCALE: 1" = 10'

0 10 20
SCALE IN FEET

FENCE GROUNDING

SCALE: N.T.S.



TYPICAL GATE POST GROUNDING DETAIL

SCALE: N.T.S.

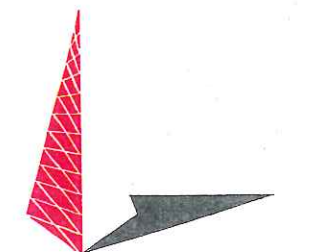
PLANS PREPARED FOR:

AMERICAN TOWER CORPORATION
400 REGENCY FOREST DRIVE
CARY, NC 27511

PROJECT INFORMATION:

AT&T SITE #: 368-545
ATC#: 280373
MEACHAM NC
POYTHRESS ROAD
CHAPEL HILL, NC 27516
(CHATHAM COUNTY)

PLANS PREPARED BY:



TOWER ENGINEERING PROFESSIONALS
3703 JUNCTION BOULEVARD
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N.C. LICENSE # C-1794

SEAL:



REV	DATE	ISSUED FOR:
1	07-19-13	CONSTRUCTION
0	05-22-13	PRELIMINARY

DRAWN BY: SCB CHECKED BY: FTH

SHEET TITLE:

TOWER & SHELTER GROUNDING PLAN

SHEET NUMBER:

E-3

REVISION:

1

TEP #: 131501

PANELBOARD SCHEDULE

SCALE: N.T.S.

800A ATC DISTRIBUTION PANEL SCHEDULE

LOAD SERVED	VOLT AMPERES (WATTS)		WIRE	BREAKER		CKT #	PHASE	CKT #	BREAKER		WIRE	VOLT AMPERES (WATTS)		LOAD SERVED
	L1	L2		P	TRIP				P	TRIP		L1	L2	
AT&T ATS	10695		3/0	2	200	1	A	2						FUTURE CARRIER SERVICE T.B.D.
		11230				3	B	4						
FUTURE CARRIER SERVICE T.B.D.						5	A	6						FUTURE CARRIER SERVICE T.B.D.
						7	B	8						
FUTURE CARRIER SERVICE T.B.D.						9	A	10						SPARE
						11	B	12						SPARE
SPARE						13	A	14						SPARE
SPARE						15	B	16						SPARE
VOLT AMPS	10695	11230												VOLT AMPS
L1 VOLT AMPERES						10695		11230	L2 VOLT AMPERES					
							21925		TOTAL VOLT AMPERES					
							91.35		TOTAL AMPS					

AT&T POWER PANEL SCHEDULE

LOAD SERVED	VOLT AMPERES (WATTS)		WIRE	BREAKER		CKT #	PHASE	CKT #	BREAKER		WIRE	VOLT AMPERES (WATTS)		LOAD SERVED
	L1	L2		P	TRIP				P	TRIP		L1	L2	
3 TON HVAC #1	3400		8	2	50	1	A	2				3400		3 TON HVAC #2
		3400				3	B	4					3400	
INTERIOR LIGHTS	335		12	1	15	5	A	6				800		RECTIFIER #2
			12	1	20	7	B	8					800	
INTERIOR RECEPTACLES		1080	12	1	20	9	A	10				800		RECTIFIER #3
EXTERIOR RECEPTACLES	360		12	1	20	11	B	12					800	
EXTERIOR LIGHTS		150	12	1	15	13	A	14				800		RECTIFIER #4
		800	12	2	30	15	B	16					800	
RECTIFIER #1						17	A	18						
						19	B	20						
						21	A	22						
						23	B	24						
						25	A	26						
						27	B	28						
						29	A	30						
VOLT AMPS	4895	5430										5800	5800	VOLT AMPS
L1 VOLT AMPERES						10695		11230	L2 VOLT AMPERES					
							21925		TOTAL VOLT AMPERES					
							91.35		TOTAL AMPS					
							114.19		AMPS X 125%					
							125.61		X 110% FOR MAIN					

100A ATC SERVICE PANEL SCHEDULE

LOAD SERVED	VOLT AMPERES (WATTS)		WIRE	BREAKER		CKT #	PHASE	CKT #	BREAKER		WIRE	VOLT AMPERES (WATTS)		LOAD SERVED
	L1	L2		P	TRIP				P	TRIP		L1	L2	
BATTERY CHARGER	1440		12	1	20	1	A	2						SPARE
SPARE						3	B	4					1440	BLOCK HEATER
SPARE						5	A	6						SPARE
SPARE						7	B	8						SPARE
VOLT AMPS	1440												1440	VOLT AMPS
L1 VOLT AMPERES						1440		1440	L2 VOLT AMPERES					
							2800		TOTAL VOLT AMPERES					
							11.6667		TOTAL AMPS					
							14.5833		AMPS X 125%					
							16.04		X 110% FOR MAIN					

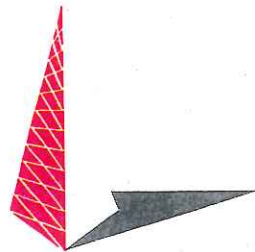
PLANS PREPARED FOR:



PROJECT INFORMATION:

AT&T SITE #: 368-545
ATC#: 280373
MEACHAM NC
POYTHRESS ROAD
CHAPEL HILL, NC 27516
(CHATHAM COUNTY)

PLANS PREPARED BY:



TOWER ENGINEERING PROFESSIONALS
3703 JUNCTION BOULEVARD
RALEIGH, NC 27603-5263
OFFICE: (919) 661-6351
www.tepgroup.net

N.C. LICENSE # C-1794

SEAL:



REV	DATE	ISSUED FOR:
I	07-19-13	CONSTRUCTION
O	05-22-13	PRELIMINARY

DRAWN BY: CSN | CHECKED BY: FTH

SHEET TITLE:

PANELBOARD
SCHEDULE

SHEET NUMBER:	REVISION:
E-4	1
	TEP #: 131501

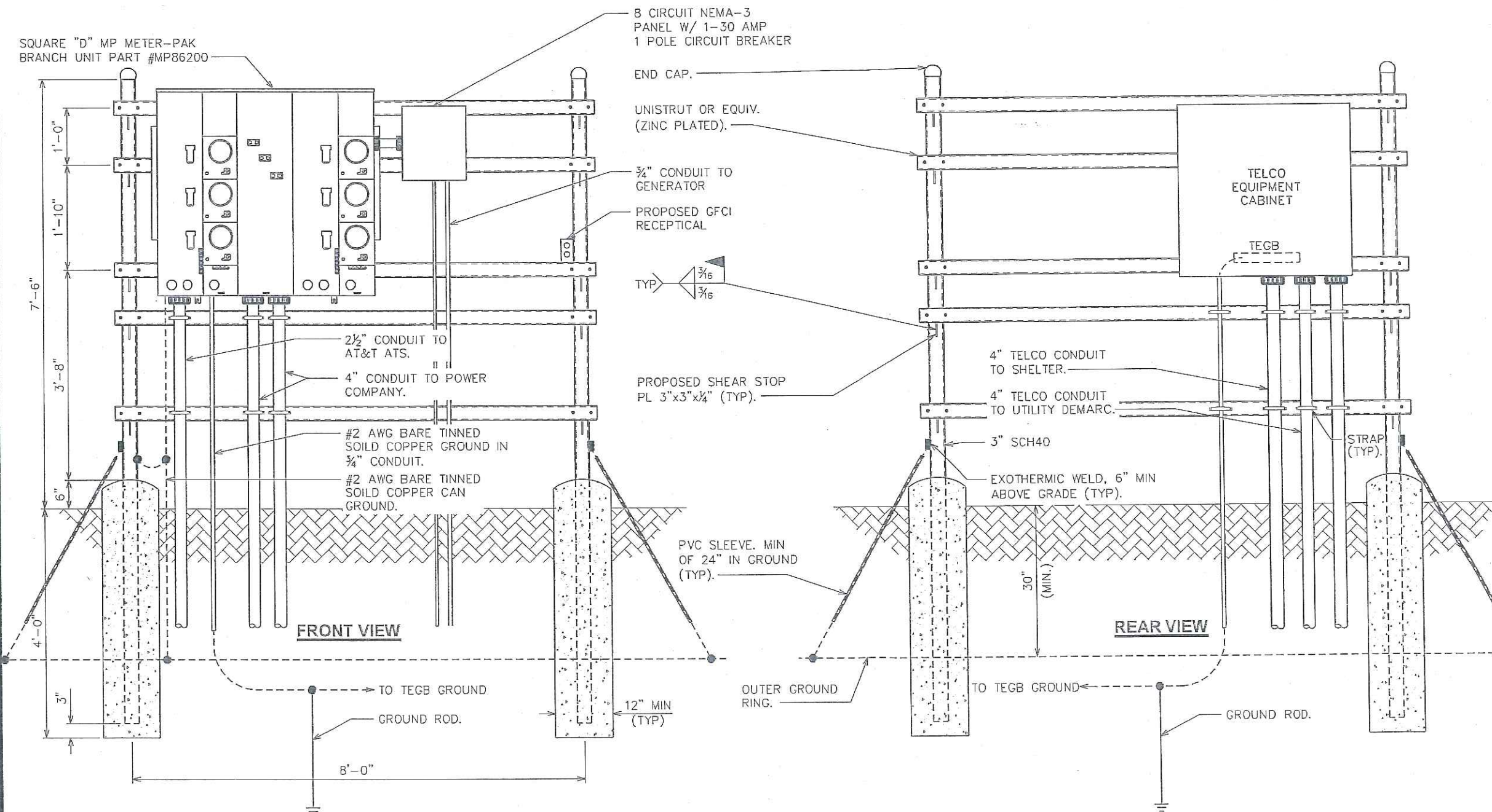
NOTES:

1. ELECTRIC SERVICE: 240/120V, 1 ϕ , 3W, 800A UNDERGROUND SERVICE TO POLE RISER.
2. USE COPPER STRANDED, 600V, TYPE THW/THWN, WITH CROSS-LINKED POLYETHYLENE INSULATION FOR #8 AWG AND LARGER WIRE.

3. UNDERGROUND CONDUITS SHALL BE SCHEDULE 40 PVC (MEET UL STANDARDS G51 AND NEMA TC2-1990). EXPOSED CONDUITS SHALL BE PVC UV RESISTANT OR RIGID GALVANIZED STEEL. ALL CONDUIT BENDS SHALL BE A MINIMUM OF 36" RADIUS.

4. GROUNDING CONDUCTOR SHALL BE 2 AWG SOLID BARE TINNED COPPER UNLESS OTHERWISE NOTED.

5. 4" PVC CONDUIT INSTALLED 30' (MINIMUM) BELOW GRADE FOR INCOMING SERVICE BY TELEPHONE COMPANY. PROVIDE PULL STRING - 200 LB. TEST POLYETHYLENE CORD.



SERVICE RACK DETAILS

SCALE: N.T.S.

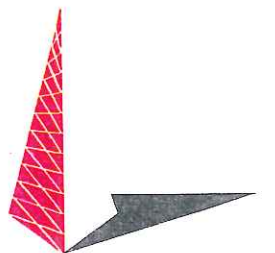
PLANS PREPARED FOR:

AMERICAN TOWER CORPORATION
400 REGENCY FOREST DRIVE
CARY, NC 27511

PROJECT INFORMATION:

AT&T SITE #: 368-545
ATC#: 280373
MEACHAM NC
POYTHRESS ROAD
CHAPEL HILL, NC 27516
(CHATHAM COUNTY)

PLANS PREPARED BY:



TOWER ENGINEERING PROFESSIONALS
3703 JUNCTION BOULEVARD
RALEIGH, NC 27603-5263
OFFICE: (919) 661-6351
www.tepgroup.net

N.C. LICENSE # C-1794

SEAL:



July 19, 2013

REV	DATE	ISSUED FOR:
1	07-19-13	CONSTRUCTION
0	05-22-13	PRELIMINARY

DRAWN BY: CSN CHECKED BY: FTH

SHEET TITLE:

**SERVICE RACK
DETAILS I**

SHEET NUMBER:

E-5

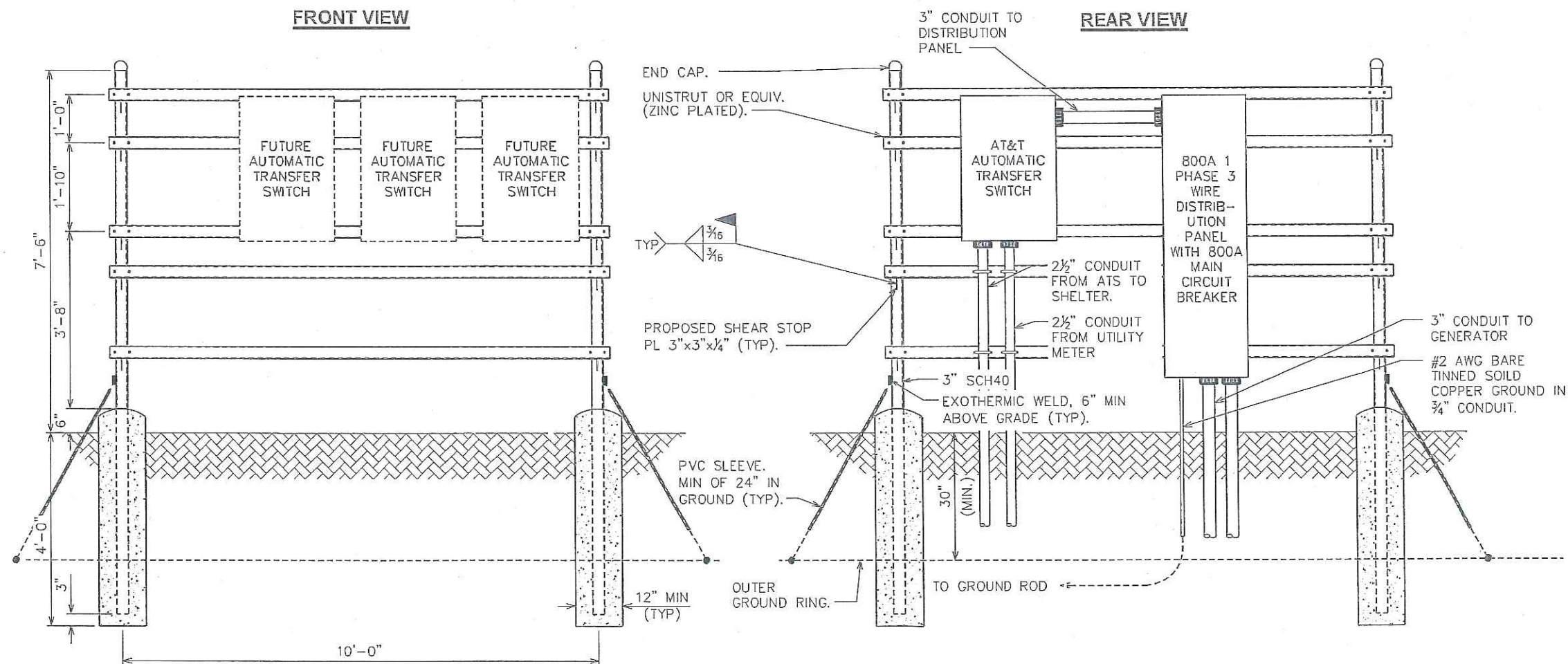
REVISION:

1

TEP #: 131501

NOTE:

SEE SHEET E-5 FOR SERVICE RACK NOTES.



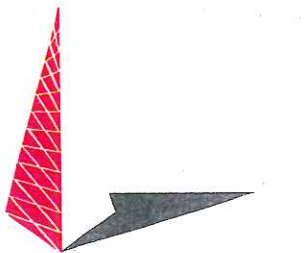
PLANS PREPARED FOR:



PROJECT INFORMATION:

AT&T SITE #: 368-545
ATC#: 280373
MEACHAM NC
 POYTHRESS ROAD
 CHAPEL HILL, NC 27516
 (CHATHAM COUNTY)

PLANS PREPARED BY:



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 OFFICE: (919) 661-6351
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N.C. LICENSE # C-1794

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DRAWN BY: CSN CHECKED BY: FTH

SHEET TITLE:

**SERVICE RACK
DETAILS II**

SHEET NUMBER: REVISION:

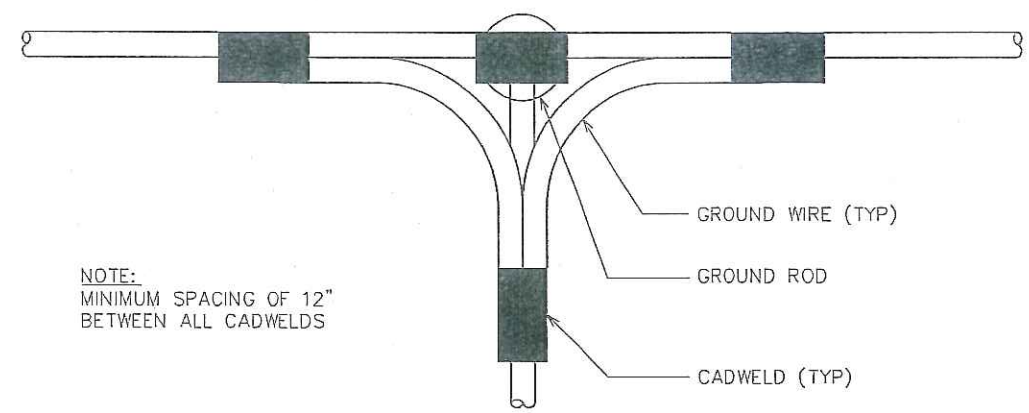
E-5A

1

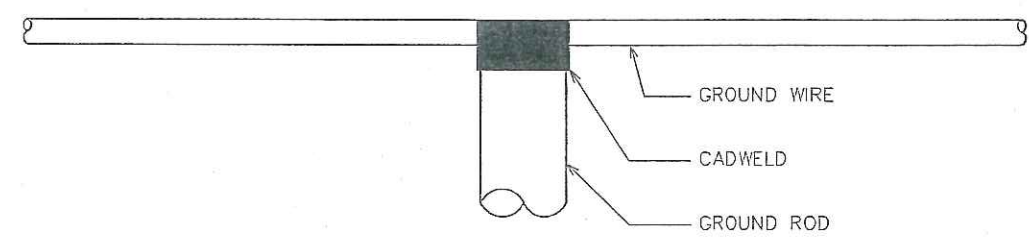
TEP #: 131501

SERVICE RACK DETAILS

SCALE: N.T.S.



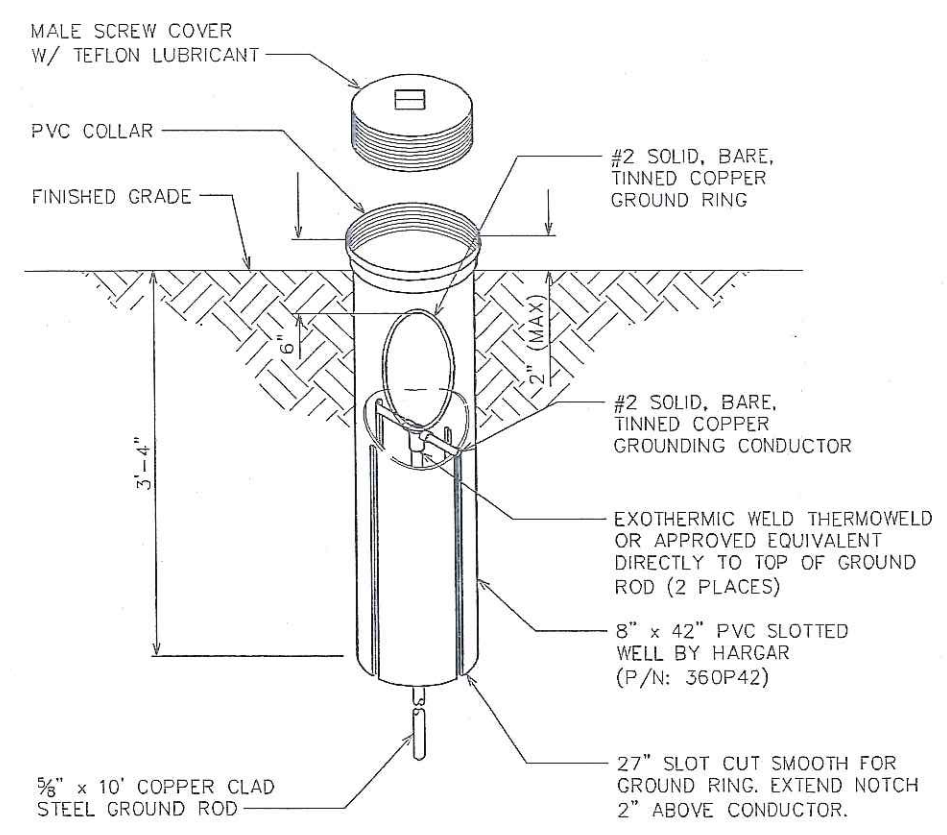
TOP VIEW



SIDE VIEW

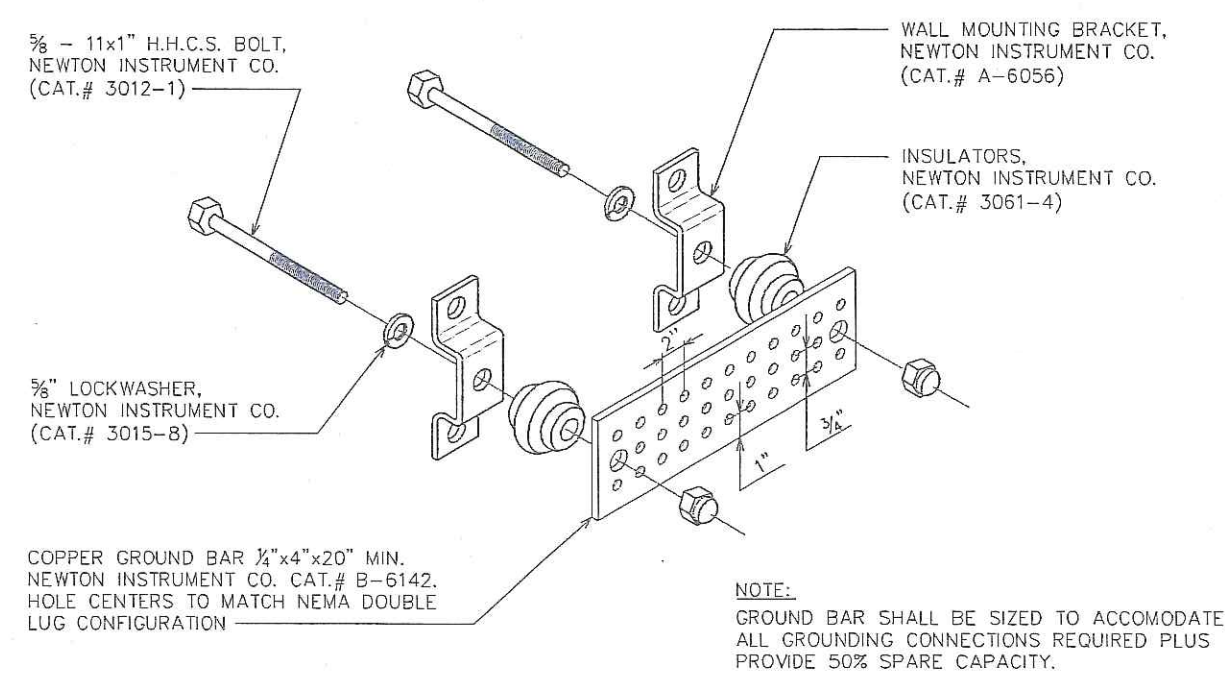
CADWELD GROUNDING DETAIL

SCALE: N.T.S.



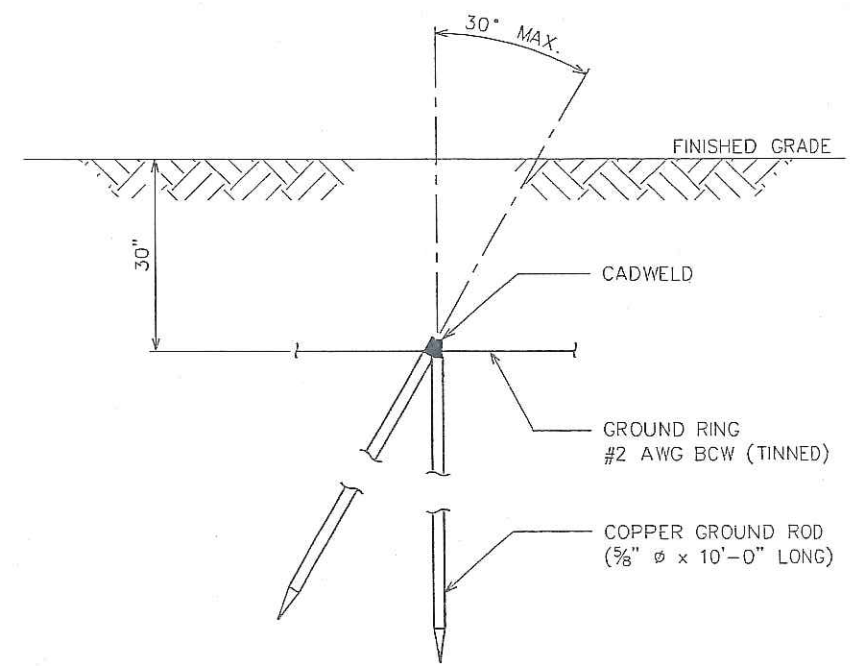
GROUND ROD WITH INSPECTION WELL

SCALE: N.T.S.



STANDARD GROUND BAR DETAIL

SCALE: N.T.S.



COPPER-CLAD STEEL GROUND ROD

SCALE: N.T.S.

PLANS PREPARED FOR:

AMERICAN TOWER CORPORATION
400 REGENCY FOREST DRIVE
CARY, NC 27511

PROJECT INFORMATION:

AT&T SITE #: 368-545
ATC#: 280373
MEACHAM NC
POYTHRESS ROAD
CHAPEL HILL, NC 27516
(CHATHAM COUNTY)

PLANS PREPARED BY:

TOWER ENGINEERING PROFESSIONALS
3703 JUNCTION BOULEVARD
RALEIGH, NC 27603-5263
OFFICE: (919) 661-6351
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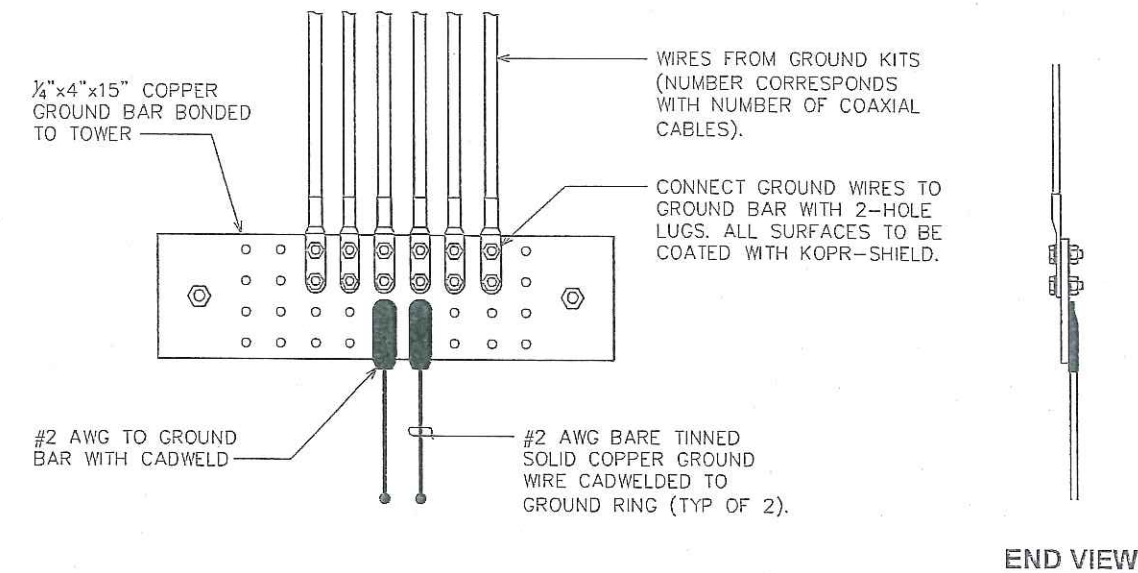
SHEET TITLE:

GROUNDING DETAILS I

SHEET NUMBER: **E-6**

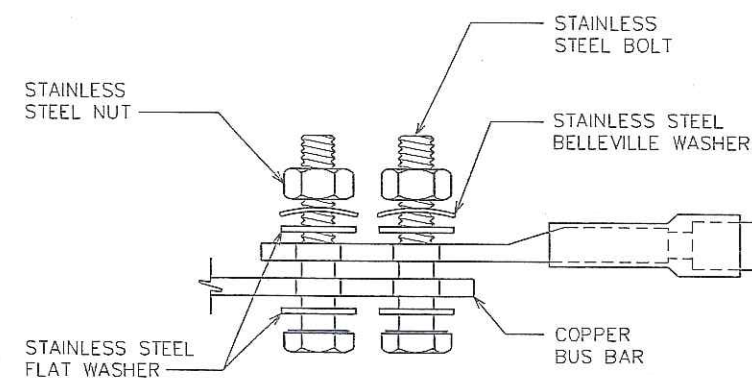
REVISION: **1**

TEP #: 131501



LOWER GROUND BAR

SCALE: N.T.S.



NOTES:

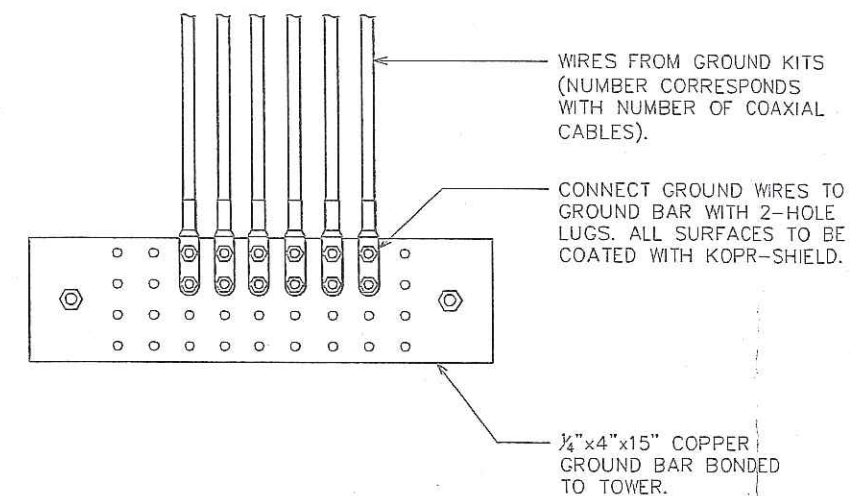
1. ALL HARDWARE SHALL BE 18-8 STAINLESS STEEL, INCLUDING THE BELLEVILLE WASHERS. COAT ALL SURFACES WITH KOPR-SHIELD BEFORE MATING.
2. FOR GROUND BOND TO STEEL ONLY; INSERT A DRAGON TOOTH WASHER BETWEEN THE LUG AND STEEL. COAT ALL SURFACES WITH KOPR-SHIELD.

LUG DETAIL

SCALE: N.T.S.

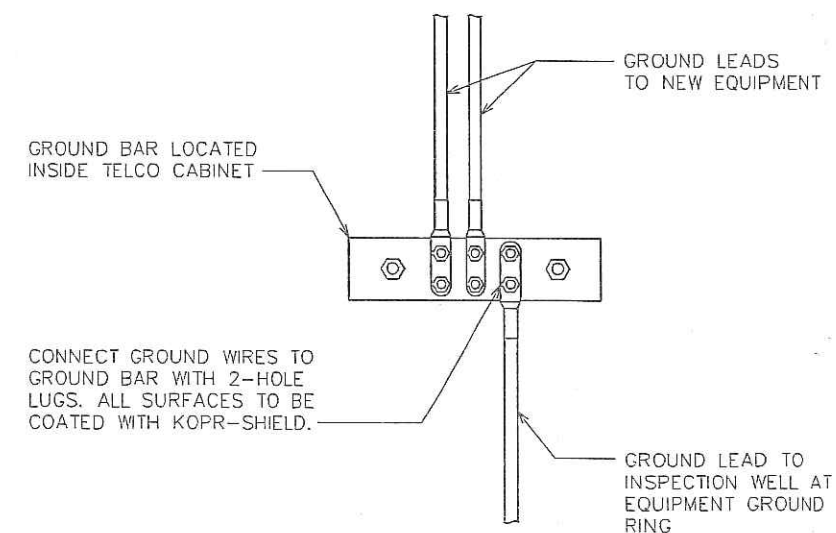
NOTE:

THE CONTRACTOR SHALL UTILIZE AN INTERMEDIATE GROUND BAR FOR ANTENNA RAD CENTERS OVER 200'.



UPPER / INTERMEDIATE GROUND BAR

SCALE: N.T.S.



GROUND BAR IN TELCO CABINET

SCALE: N.T.S.

PLANS PREPARED FOR:



400 REGENCY FOREST DRIVE
CARY, NC 27511

PROJECT INFORMATION:

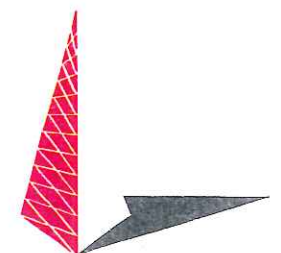
AT&T SITE #: 368-545

ATC#: 280373

MEACHAM NC

POYTHRESS ROAD
CHAPEL HILL, NC 27516
(CHATHAM COUNTY)

PLANS PREPARED BY:



TOWER ENGINEERING PROFESSIONALS

3703 JUNCTION BOULEVARD

RALEIGH, NC 27603-5263

OFFICE: (919) 661-6351

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SHEET TITLE:

**GROUNDING
DETAILS II**

SHEET NUMBER:

E-7

REVISION:

1

TEP #: 131501