


| PROJECT DESCRIPTION  |   |
|--|---|
| THIS PROJECT CONSISTS OF INSTALLING A NEW UNMANNED SHELTER ON A NEW CONCRETE PAD AT GRADE. |   |
| PROJECT INFORMATION  |   |
| APPLICANT ADDRESS:   | BECHTEL ASSOCIATES PROFESSIONAL CORPORATION<br>100 PERIMETER PARK DRIVE, SUITE H<br>MORRISVILLE, NC 27560 |
| PROJECT MANAGER:   | BETTY CHANG   |
| ENGINEERING CONTACT:   | PAUL KOSKI  |
| PERMITTING CONTACT:  | DAVID PHELPS  |
| JURISDICTION:  | TOWN OF CARRBORO, NC  |
| LATITUDE:  | N 35.9114674 (WGS84)  |
| LONGITUDE:   | W -79.0822505 (WGS84)   |
| PROPERTY OWNER:  | TOWN OF CARRBORO  |

| DRAWING INDEX        |           |                             |     |
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| DRAWING NO.          | SHEET NO. |                             | REV |
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| SUMMARY INFORMATION      |  |
|--------------------------|--|
| PIN                      | 9778563356   |
| PROPERTY AREA            | 8.73 ACRES   |
| EXISTING BUILDING AREA   | 0 SF   |
| PROPOSED BUILDING AREA   | 360 SF   |
| EXISTING USE CATAGORY    | 21.100 CEMETERY  |
| PROPOSED USE CATAGORY    | 21.100 CEMETERY, AND 15.750 DATA SERVICE PROVIDER FACILITY |
| PARKING DATA             | 0 REQUIRED, 1 PROVIDED (IN DRIVEWAY)/STANDARD              |
| CURRENT IMPERVIOUS       | 0.44 AC. (5.0% OF SITE)                                    |
| PROPOSED IMPERVIOUS      | 0.09 AC. (1.0% OF SITE)                                    |
| TOTAL IMPERVIOUS AREA    | 0.53 AC. (6.1% OF SITE)                                    |
| TOTAL DISTURBED AREA     | 0.25 AC  |
| PROPOSED BUILDING HEIGHT | 13' 3-3/8" - 1 STORY                                       |
| ZONING                   | R-10, ZS   |
| PROPERTY ADDRESS         | 145 FIDELITY ST., CARRBORO, NC 27510                       |



Dewberry Engineers Inc.  
2610 WYCLIFF ROAD  
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RALEIGH, NC 27607  
PHONE: 919.881.9939  
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NC LICENSE No.: F-0929



BECHTEL ASSOCIATES  
PROFESSIONAL CORPORATION  
5275 WESTVIEW DRIVE  
FREDERICK, MD. 21703  
PHONE: (301) 228-6000

FIBER HUT ID #: RDU130  
145 FIDELITY ST.  
CARRBORO, NC 27510

Fiber Project

|                 |          |                           |                 |     |              |       |  |  |  |
|-----------------|----------|---------------------------|-----------------|-----|--------------|-------|--|--|--|
|                 |          |                           |                 |     |              |       |  |  |  |
| 2               | 02-11-16 | RESPONSE TO TOWN COMMENTS | CPR             | LWM | LWM          | LWM   |  |  |  |
| 1               | 01-25-16 | RESPONSE TO TOWN COMMENTS | CPR             | LWM | LWM          | LWM   |  |  |  |
| 0               | 08-28-15 | ZONING SUBMITTAL          | JB              | LWM | LWM          | LWM   |  |  |  |
| NO.             | DATE     | REVISIONS                 | BY              | CHK | SUPV         | APP'D |  |  |  |
| SCALE: AS SHOWN |          |                           | DESIGNED BY: JB |     | DRAWN BY: JB |       |  |  |  |



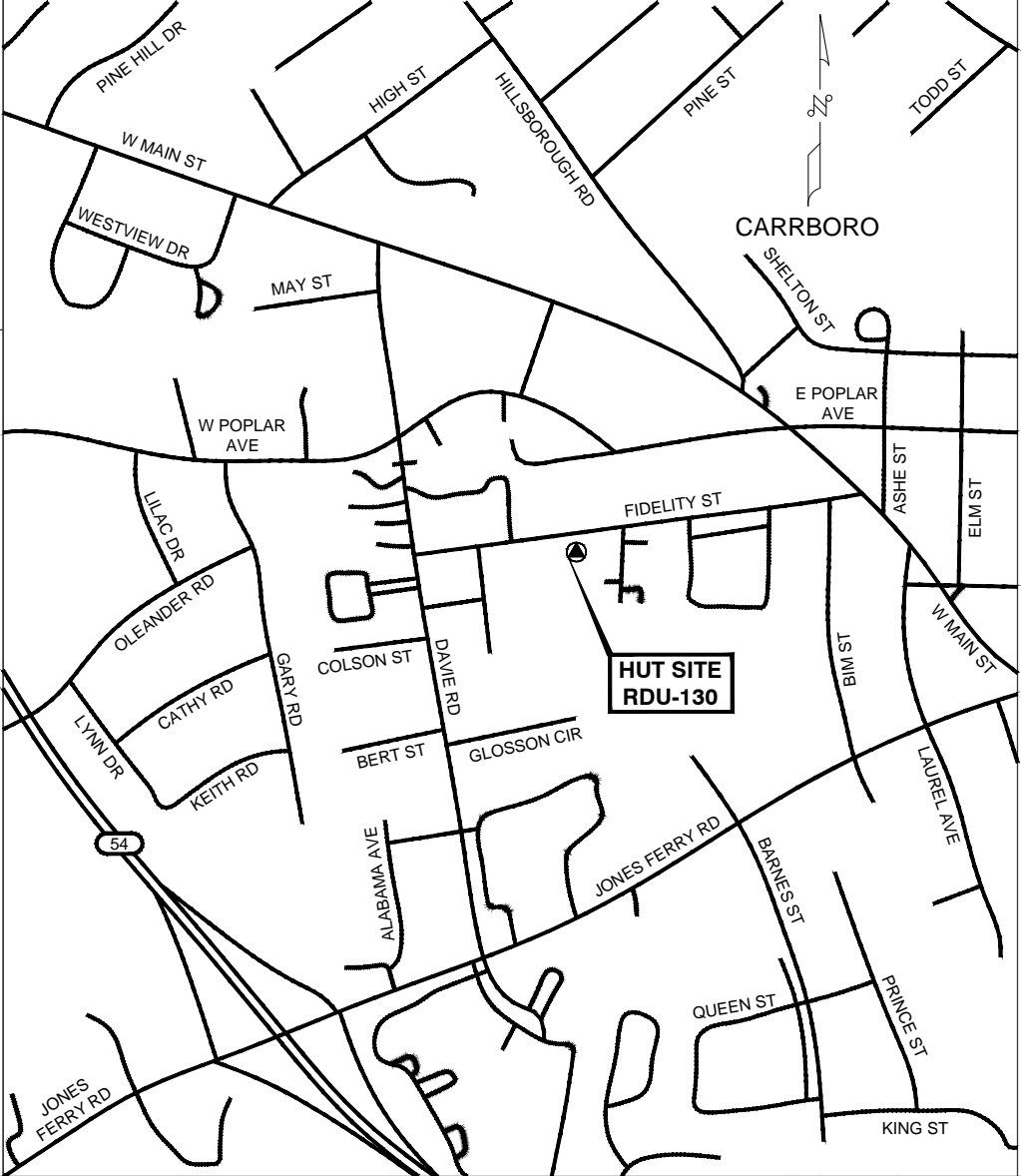
| Fiber Project |                      |           |     |
|---------------|----------------------|-----------|-----|
| TITLE SHEET   |                      |           |     |
|               | DRAWING NO.          | SHEET NO. | REV |
| 25927-210     | H0130-00000-ZN-70001 | 01        | 2   |

Fiber Project  
ZONING PERMIT  
SITE NAME: WESTWOOD CEMETERY  
FIBER LAS ID NO.: RDU-130  
FIBER HUT FACILITY DEPLOYMENT PROJECT

VICINITY MAP

APPLICABLE BUILDING CODES AND STANDARDS

DIRECTION: FROM BECHTEL OFFICE LOCATED AT 100 PERIMETER PARK DR, MORRISVILLE, NC 27560 DEPART PERIMETER PARK DR TOWARD AIRPORT BLVD. TURN RIGHT ONTO AIRPORT BLVD. TURN LEFT AND MERGE ONTO I-40 WEST. TAKE EXIT 273A FOR NC-54 WEST TOWARD CHAPEL HILL. MERGE ONTO NC-54 WEST. SLIGHT RIGHT ONTO NC-54 WEST/US 501 SOUTH. TAKE THE JONES FERRY RD EXIT TOWARD CARRBORO. TURN RIGHT ONTO JONES FERRY RD. TURN LEFT ONTO DAVIE RD AND ARRIVE AT HUT LOCATION RDU-130 ON RIGHT 0.3 MILES FROM INTERSECTION.



SUBCONTRACTOR'S WORK SHALL COMPLY WITH ALL APPLICABLE NATIONAL, STATE, AND LOCAL CODES AS ADOPTED BY THE LOCAL AUTHORITY HAVING JURISDICTION (AHJ) FOR THE LOCATION. THE EDITION OF THE AHJ ADOPTED CODES AND STANDARDS IN EFFECT ON THE DATE OF CONTRACT AWARD SHALL GOVERN THE DESIGN.

BUILDING CODE:  
[INTERNATIONAL BUILDING CODE] IBC & IRC [STATE BUILDING CODE] - CURRENT VERSION

ELECTRICAL CODE:  
[NATIONAL ELECTRICAL CODE] NEC NFPA 70  
[FIRE/LIFE SAFETY CODE] NFPA-101 LIFE SAFETY CODE

SUBCONTRACTOR'S WORK SHALL COMPLY WITH THE LATEST EDITION OF THE FOLLOWING STANDARDS:  
AMERICAN CONCRETE INSTITUTE (ACI) 318, BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE  
AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC), MANUAL OF STEEL CONSTRUCTION ANSI-J-STD-607-A,  
COMMERCIAL BUILDING GROUNDING (EARTHING) AND BONDING REQUIREMENTS FOR TELECOMMUNICATIONS  
NECA/BICSI-607, TELECOMMUNICATIONS BONDING AND GROUNDING PLANNING AND INSTALLATION METHODS FOR COMMERCIAL BUILDINGS  
TIA 607, COMMERCIAL BUILDING GROUNDING AND BONDING REQUIREMENTS FOR TELECOMMUNICATIONS

INSTITUTE FOR ELECTRICAL AND ELECTRONICS ENGINEERS (IEEE) 81, GUIDE FOR MEASURING EARTH RESISTIVITY, GROUND IMPEDANCE, AND EARTH SURFACE POTENTIALS OF A GROUND SYSTEM  
IEEE 1100 RECOMMENDED PRACTICE FOR POWERING AND GROUNDING OF ELECTRONIC EQUIPMENT

IEEE C2 NATIONAL ELECTRIC SAFETY CODE, LATEST VERSION

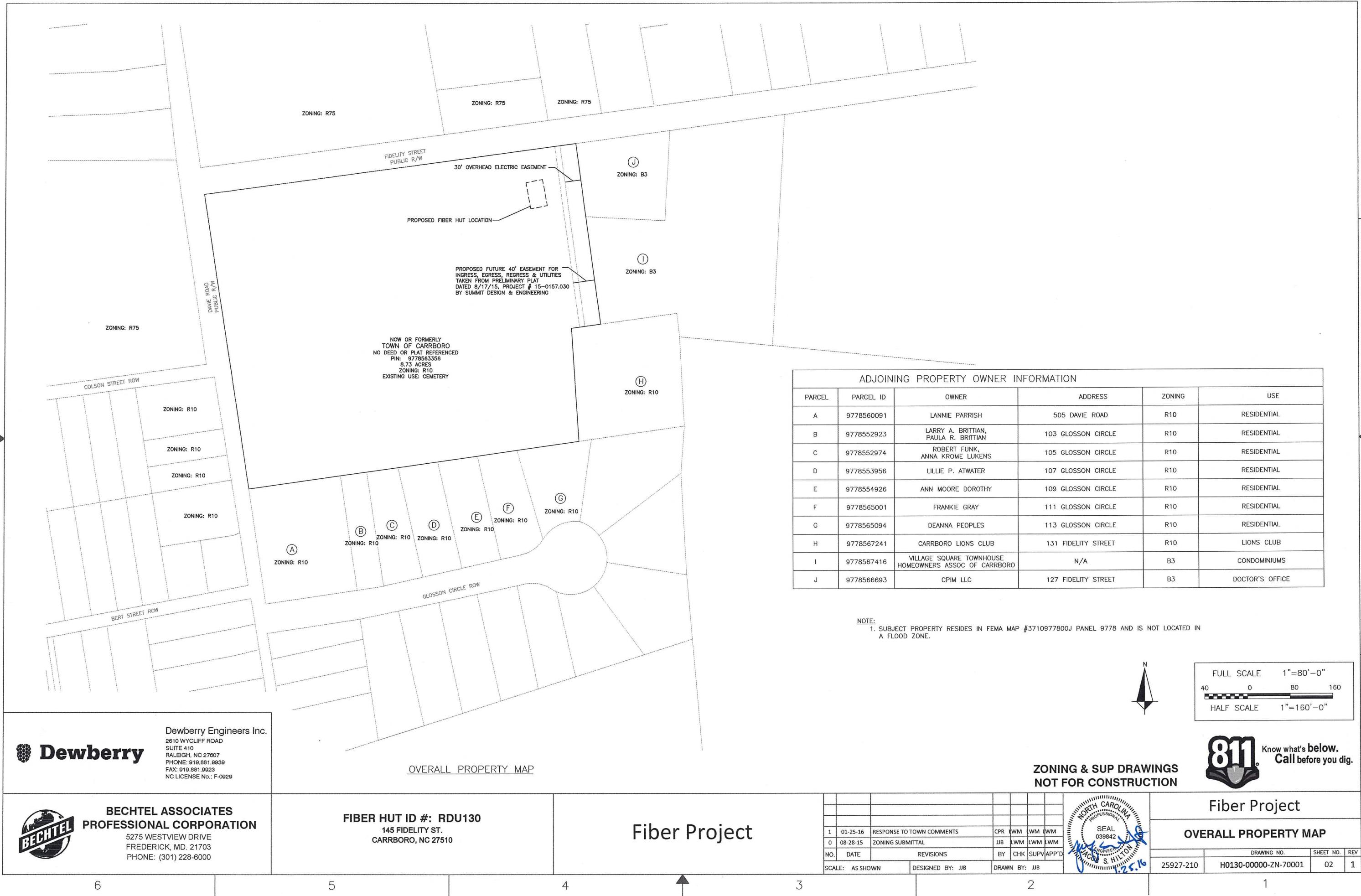
TELCORDIA GR-1275, GENERAL INSTALLATION REQUIREMENTS

FOR ANY CONFLICTS BETWEEN SECTIONS OF LISTED CODES AND STANDARDS REGARDING MATERIAL, METHODS OF CONSTRUCTION, OR OTHER REQUIREMENTS, THE MOST RESTRICTIVE REQUIREMENT SHALL GOVERN. WHERE THERE IS CONFLICT BETWEEN A GENERAL REQUIREMENT AND A SPECIFIC REQUIREMENT, THE SPECIFIC REQUIREMENT SHALL GOVERN.

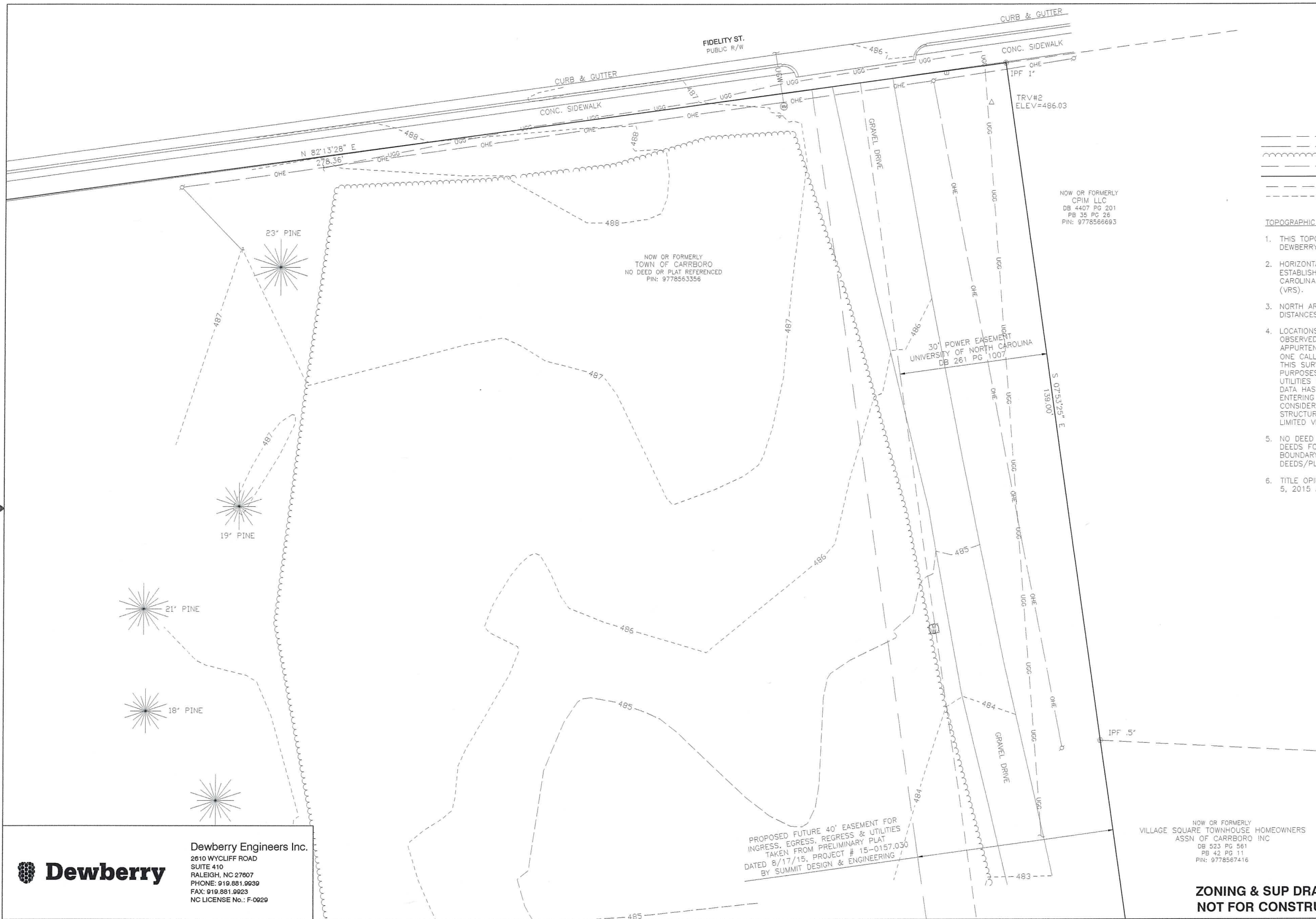
ALL CONSTRUCTION MUST BE PERFORMED IN ACCORDANCE WITH CURRENT TOWN OF CARRBORO SECTION 15-176.6 DATA SERVICE PROVIDED FACILITIES ITEMS (A) THRU (M).

GENERATOR NOTE: PROPOSED PROJECT CONTAINS A CUMMINS GGHG 85 KW GENERATOR. GENERATOR WILL HAVE A NATURAL GAS CONNECTION AND NO FUEL STORAGE TANKS ARE PROPOSED. GENERATOR WILL BE APPROXIMATELY 3' FROM THE PROPOSED BUILDING.

ZONING & SUP DRAWINGS  
NOT FOR CONSTRUCTION

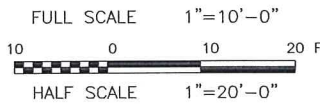






- LEGEND**
- GUY WIRE
  - IRON PIPE FOUND
  - MONUMENT FOUND
  - MONITORING WELL
  - UTILITY PEDESTAL
  - SIGN
  - TRAVERSE
  - TEST PIT
  - WATER METER
  - POWER POLE
  - UNDERGROUND GAS
  - UNDERGROUND WATER
  - TREELINE
  - OVERHEAD ELECTRIC
  - PROPERTY LINE
  - MAJOR CONTOUR
  - MINOR CONTOUR

- TOPOGRAPHIC SURVEY NOTES:**
- THIS TOPOGRAPHIC SURVEY IS BASED ON A SURVEY PERFORMED BY DEWBERRY ENGINEERS INC. ON MAY 7, 2015.
  - HORIZONTAL CONTROL (NAD83) AND VERTICAL CONTROL (NAVD88) ESTABLISHED BY GPS OBSERVATIONS AND COMPUTED USING NORTH CAROLINA GEODETIC SOCIETY VIRTUAL REFERENCE STATION SERVICE (VRS).
  - NORTH ARROW IS GRID NORTH AND ALL DISTANCES ARE GROUND DISTANCES.
  - LOCATIONS OF UTILITIES SHOWN ON THIS SURVEY WERE DETERMINED BY OBSERVED EVIDENCE, LOCATION OF ABOVE GROUND UTILITY APPURTENANCES, AND UTILITY MARKINGS (PAINT, ETC.) PROVIDED BY NC ONE CALL. THESE MARKINGS WERE OBSERVED DURING THE COURSE OF THIS SURVEY, WERE FIELD LOCATED, ARE SHOWN FOR INFORMATIONAL PURPOSES, AND SHOULD BE FIELD VERIFIED IF CRITICAL. UNDERGROUND UTILITIES NOT SHOWN, MAY EXIST. STORM SEWER AND SANITARY SEWER DATA HAS BEEN COLLECTED FROM THE RIM OF THE MANHOLE WITHOUT ENTERING THE STRUCTURE. PIPE SIZES AND TYPES SHOULD BE CONSIDERED APPROXIMATE AND BE FIELD VERIFIED IF CRITICAL. STRUCTURES LABELED "VAULT", IF ANY, INDICATE A SUBSTRUCTURE WITH LIMITED VISUAL ACCESS AND INVERT INFORMATION.
  - NO DEED BOOK OR PAGE PROVIDED BY ORANGE COUNTY REGISTER OF DEEDS FOR TOWN OF CARRBORO, WESTWOOD CEMETERY. PROPERTY BOUNDARY SHOWN, IS BASED ON FOUND MONUMENTATION, ADJOINING DEEDS/PLATS OF RECORD AND GIS INFORMATION.
  - TITLE OPINION PROVIDED BY BURNS, DAY & PRESNELL, P. A. DATED MAY 5, 2015 AT 8:00 AM.



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PHONE: (301) 228-6000

**FIBER HUT ID #: RDU130**  
145 FIDELITY ST.  
CARRBORO, NC 27510

## Fiber Project

| NO.             | DATE     | REVISIONS                 | BY            | CHK | SUPV | APP'D |
|-----------------|----------|---------------------------|---------------|-----|------|-------|
| 1               | 01-25-16 | RESPONSE TO TOWN COMMENTS | CPR           | WM  | WM   | WM    |
| 0               | 08-28-15 | ZONING SUBMITTAL          | JJB           | LWM | LWM  | LWM   |
| NO.             | DATE     | REVISIONS                 | BY            | CHK | SUPV | APP'D |
| SCALE: AS SHOWN |          | DESIGNED BY: JJB          | DRAWN BY: JJB |     |      |       |

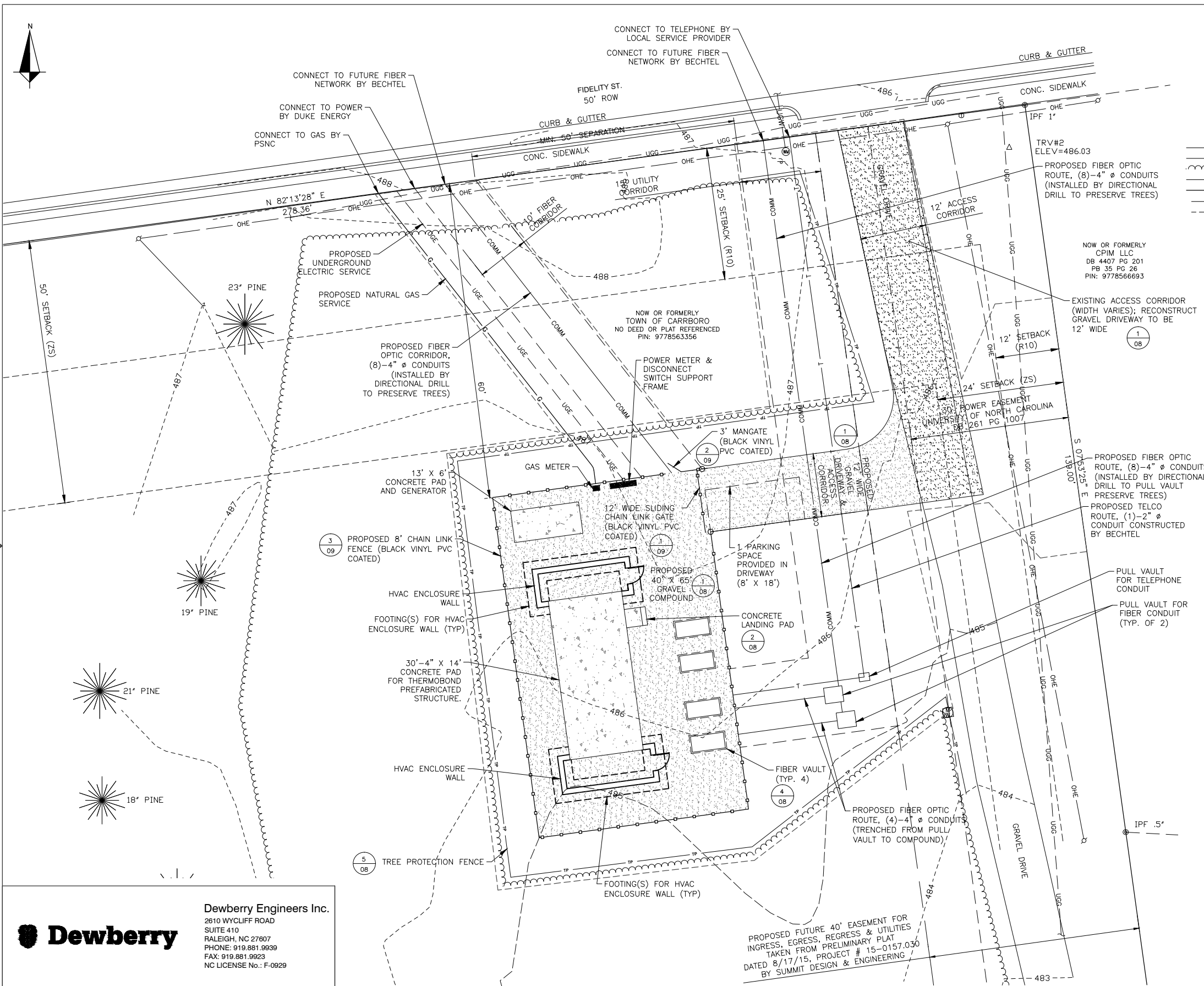


**ZONING & SUP DRAWINGS  
NOT FOR CONSTRUCTION**

**Fiber Project**

**EXISTING CONDITIONS**

| DRAWING NO. | SHEET NO.            | REV  |
|-------------|----------------------|------|
| 25927-210   | H0130-00000-ZN-70001 | 03 1 |



LEGEND

- GUY WIRE
- IRON PIPE FOUND
- MONUMENT FOUND
- MONITORING WELL
- UTILITY PEDESTAL SIGN
- TRAVERSE
- TEST PIT
- WATER METER
- POWER POLE
- UNDERGROUND GAS
- UNDERGROUND WATER
- TREELINE
- OVERHEAD ELECTRIC
- PROPERTY LINE
- MAJOR CONTOUR
- MINOR CONTOUR

SITE WORK LEGEND

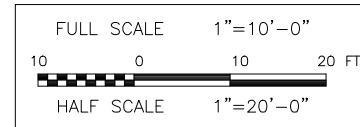
- PROPERTY LINE
- SETBACK LINE
- 8' CHAIN LINK FENCE
- PROPOSED TREE LINE
- EXISTING EASEMENT LINE
- PROPOSED CORRIDOR LINE
- UG-E UNDERGROUND ELECTRIC SERVICE
- COMM UNDERGROUND FIBER OPTIC CABLE ROUTE
- T TELEPHONE LINE
- G UNDERGROUND NATURAL GAS SERVICE
- TP TREE PROTECTION FENCE
- GRAVEL PAVEMENT
- CONCRETE PAVEMENT

ZONING TABLE

|                                  |  |  |
|----------------------------------|--|--|
| PROPERTY OWNER                   | TOWN OF CARRBORO   |  |
| ACREAGE                          | 8.73 AC.   |  |
| COUNTY ID NUMBER                 | PIN: 9778563356  |  |
| SETBACKS                         | R-10<br>FRONT: 25'<br>SIDE: 12'<br>REAR: 12'   | ZS<br>FRONT: 50'<br>SIDE: 24'<br>REAR: 24' |
| ZONING                           | R-10 (RESIDENTIAL)- ZS   |  |
| CURRENT USE                      | CEMETERY, VACANT AT PROJECT LOCATION   |  |
| PROPOSED USE                     | CEMETERY, DATA SERVICE PROVIDER FACILITY   |  |
| PROPOSED BUILDING SQUARE FOOTAGE | 360 SF   |  |
| NUMBER OF PARKING SPACES         | 0 SPACES REQUIRED<br>1 SPACE PROVIDED IN DRIVEWAY/STANDARD   |  |
| LOT COVERAGE                     | PRO. GRAVEL COMPOUND & DRIVEWAY: 3,420 SF<br>(0.09 AC.)-> 1.0%<br><br>PRO. BUILDING SLAB, GENERATOR PAD,<br>CONCRETE PAD & ENCLOSURE WALL: 578 SF<br>(0.01 AC.)-> 0.1%<br><br>EX. IMPERVIOUS SURFACE: 19,098 SF<br>(0.44 AC.)-> 5.0%<br><br>TOTAL IMPERVIOUS SURFACE: 23,096 SF<br>(0.53 AC.)-> 6.1%<br><br>REMAINING OPEN SPACE: 8.20 AC.-> 93.9% |  |

NOTES:

- NATURAL GAS SERVICE PROVIDER WILL ACQUIRE ITS OWN EASEMENT TO FURNISH SERVICE TO HUT COMPOUND. NATURAL GAS ROUTE SHOWN IS APPROXIMATE AND MAY CHANGE.
- ELECTRIC SERVICE PROVIDER WILL ACQUIRE ITS OWN EASEMENT TO FURNISH SERVICE TO HUT COMPOUND. ELECTRICAL ROUTE SHOWN IS APPROXIMATE AND MAY CHANGE.



ZONING & SUP DRAWINGS  
NOT FOR CONSTRUCTION



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Fiber Project

|                 |          |                           |               |     |      |       |
|-----------------|----------|---------------------------|---------------|-----|------|-------|
| 2               | 02-11-16 | RESPONSE TO TOWN COMMENTS | CPR           | LWM | LWM  | LWM   |
| 1               | 01-25-16 | RESPONSE TO TOWN COMMENTS | CPR           | LWM | LWM  | LWM   |
| 0               | 08-28-15 | ZONING SUBMITTAL          | JB            | LWM | LWM  | LWM   |
| NO.             | DATE     | REVISIONS                 | BY            | CHK | SUPV | APP'D |
| SCALE: AS SHOWN |          | DESIGNED BY: JJB          | DRAWN BY: JJB |     |      |       |

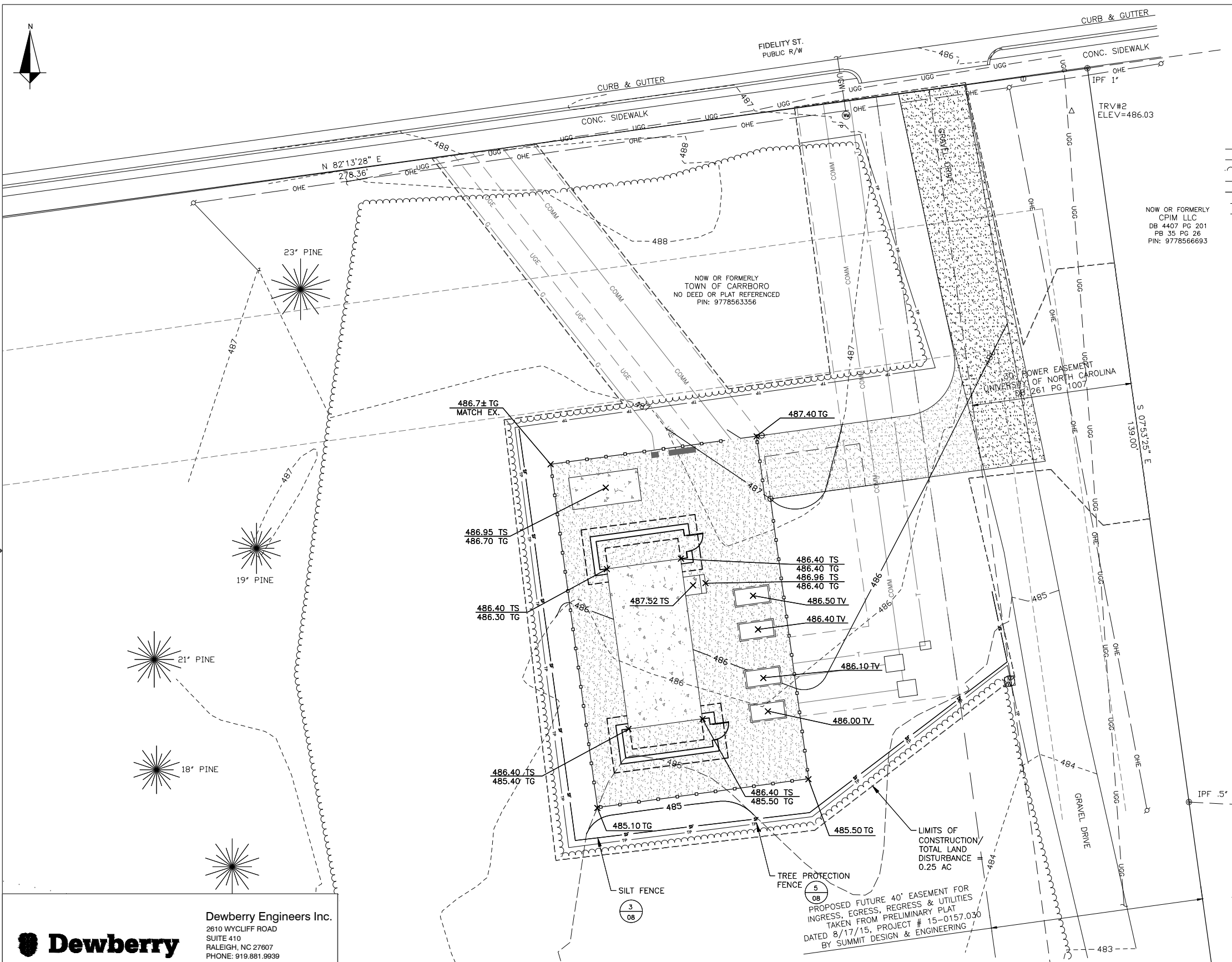


Fiber Project

SITE & UTILITY PLAN

|           | DRAWING NO.          | SHEET NO. | REV |
|-----------|----------------------|-----------|-----|
| 25927-210 | H0130-00000-ZN-70001 | 04        | 2   |





**LEGEND**

- GUY WIRE
- IRON PIPE FOUND
- MONUMENT FOUND
- MONITORING WELL
- UTILITY PEDESTAL
- SIGN
- TRAVERSE
- TEST PIT
- WATER METER
- POWER POLE
- UNDERGROUND GAS
- UNDERGROUND WATER
- TREELINE
- OVERHEAD ELECTRIC
- PROPERTY LINE
- MAJOR CONTOUR
- MINOR CONTOUR

**SITE WORK LEGEND**

- PROPERTY LINE
- SETBACK LINE
- 8' CHAIN LINK FENCE
- PROPOSED TREE LINE
- EXISTING EASEMENT LINE
- PROPOSED CORRIDOR LINE
- UNDERGROUND ELECTRIC SERVICE
- UNDERGROUND FIBER OPTIC CABLE ROUTE
- TELEPHONE LINE
- UNDERGROUND NATURAL GAS SERVICE
- TREE PROTECTION FENCE
- GRAVEL PAVEMENT
- CONCRETE PAVEMENT

**GRADING LEGEND**

- TG TOP OF GRAVEL
- TS TOP OF SLAB
- TV TOP OF VAULT
- 1' CONTOUR
- 5' CONTOUR

**EROSION CONTROL LEGEND**

- SF SILTFENCE
- TP TREE PROTECTION
- LIMITS OF CONSTRUCTION

**SOIL EROSION CONTROL:**

PER ORANGE COUNTY; WHENEVER CLEARING AND GRADING WILL EXCEED 20,000 SQUARE FEET (ROUGHLY 1/2 ACRE) AN EROSION CONTROL PLAN MUST BE SUBMITTED FOR APPROVAL; AND A LAND DISTURBANCE PERMIT MUST BE OBTAINED BEFORE ANY LAND DISTURBING ACTIVITY BEGINS (INCLUDING TIMBERING, DEMOLITION, CLEARING, OR GRADING, ETC.). HOWEVER, IF THE SITE IS WITHIN EITHER THE UNIVERSITY LAKE, CANE CREEK, OR UPPER ENO WATERSHEDS (EROSION CONTROL FAQS), A PERMIT IS REQUIRED FOR ANY GRADING EXCEEDING 10,000 SQUARE FEET (APPROXIMATELY 1/4 ACRE) AND MAY BE REQUIRED FOR ANY DISTURBANCE DEPENDING ON SITE SPECIFIC FACTORS. A WAIVER MAY BE ISSUED BY THE EROSION CONTROL DIVISION FOR LAND DISTURBANCES OF LESS THAN 10,000 SQUARE FEET.

SILT FENCE HAS BEEN PROVIDED ON THE DOWN SLOPES OF THE PROPOSED ENCLOSURE TO CAPTURE ANY SEDIMENT LADEN RUNOFF.


0.15 ACRE DISTURBED AREA

**FEMA FLOODPLAIN:**

THIS SITE IS NOT LOCATED WITHIN A FLOOD HAZARD AREA AS DEFINED BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY ACCORDING TO FLOOD INSURANCE RATE MAP 3710977800J BEARING AN EFFECTIVE DATE OF FEBRUARY 2, 2007.

**IMPERVIOUS SURFACE INFORMATION:**

|   |
|---|
| PRO. GRAVEL COMPOUND & DRIVEWAY: 3,420 SF (0.09 AC.)→ 1.0%                                |
| PRO. BUILDING SLAB, GENERATOR PAD, CONCRETE PAD & ENCLOSURE WALL: 578 SF (0.01 AC.)→ 0.1% |
| EX. IMPERVIOUS SURFACE: 19,098 SF (0.44 AC.)→ 5.0%  |
| TOTAL IMPERVIOUS SURFACE: 23,096 SF (0.53 AC.)→ 6.1%                                      |
| REMAINING OPEN SPACE: 8.20 AC.→ 93.9%   |



Know what's below.  
Call before you dig.

FULL SCALE 1"=10'-0"

10 0 10 20 FT

HALF SCALE 1"=20'-0"



**Dewberry**

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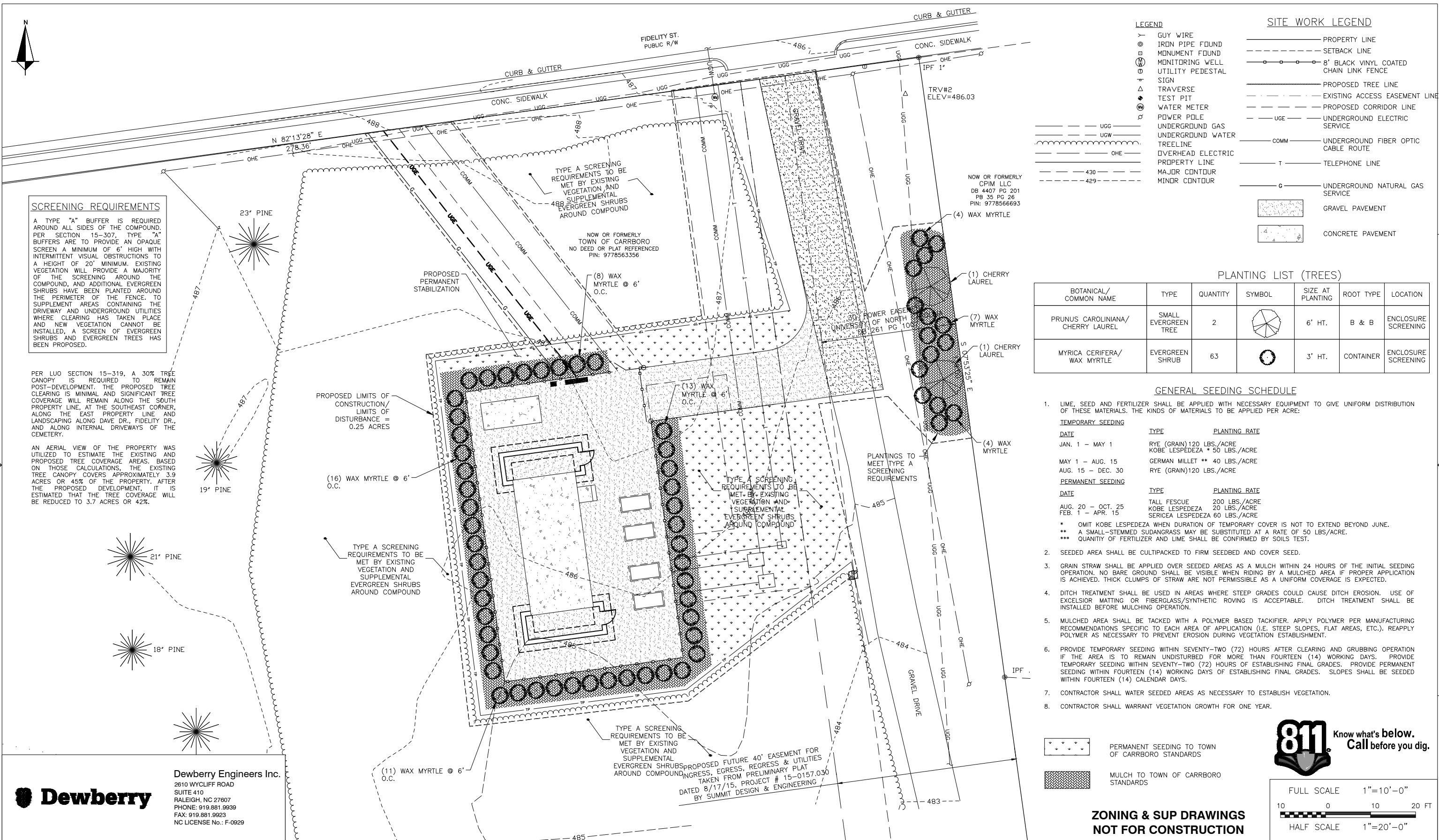
**Fiber Project**

|                 |          |                           |     |               |      |       |
|-----------------|----------|---------------------------|-----|---------------|------|-------|
| 2               | 02-11-16 | RESPONSE TO TOWN COMMENTS | CPR | LWM           | LWM  | LWM   |
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**Fiber Project**

**GRADING & EROSION  
CONTROL PLAN**

|             |                      |      |
|-------------|----------------------|------|
| DRAWING NO. | SHEET NO.            | REV  |
| 25927-210   | H0130-00000-ZN-70001 | 05 2 |



### SCREENING REQUIREMENTS

A TYPE "A" BUFFER IS REQUIRED AROUND ALL SIDES OF THE COMPOUND. PER SECTION 15-307, TYPE "A" BUFFERS ARE TO PROVIDE AN OPAQUE SCREEN A MINIMUM OF 6' HIGH WITH INTERMITTENT VISUAL OBSTRUCTIONS TO A HEIGHT OF 20' MINIMUM. EXISTING VEGETATION WILL PROVIDE A MAJORITY OF THE SCREENING AROUND THE COMPOUND, AND ADDITIONAL EVERGREEN SHRUBS HAVE BEEN PLANTED AROUND THE PERIMETER OF THE FENCE. TO SUPPLEMENT AREAS CONTAINING THE DRIVEWAY AND UNDERGROUND UTILITIES WHERE CLEARING HAS TAKEN PLACE AND NEW VEGETATION CANNOT BE INSTALLED, A SCREEN OF EVERGREEN SHRUBS AND EVERGREEN TREES HAS BEEN PROPOSED.

PER LUO SECTION 15-319, A 30% TREE CANOPY IS REQUIRED TO REMAIN POST-DEVELOPMENT. THE PROPOSED TREE CLEARING IS MINIMAL AND SIGNIFICANT TREE COVERAGE WILL REMAIN ALONG THE SOUTH PROPERTY LINE, AT THE SOUTHEAST CORNER, ALONG THE EAST PROPERTY LINE AND LANDSCAPING ALONG DAVE DR., FIDELITY DR., AND ALONG INTERNAL DRIVEWAYS OF THE CEMETERY.

AN AERIAL VIEW OF THE PROPERTY WAS UTILIZED TO ESTIMATE THE EXISTING AND PROPOSED TREE COVERAGE AREAS. BASED ON THOSE CALCULATIONS, THE EXISTING TREE CANOPY COVERS APPROXIMATELY 3.9 ACRES OR 45% OF THE PROPERTY. AFTER THE PROPOSED DEVELOPMENT, IT IS ESTIMATED THAT THE TREE COVERAGE WILL BE REDUCED TO 3.7 ACRES OR 42%.



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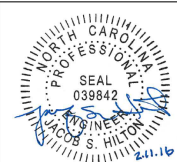


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| SCALE: AS SHOWN |          | DESIGNED BY: JJB          | DRAWN BY: JJB |     |      |       |



| Fiber Project  |  |                      |      |
|----------------|--|----------------------|------|
| LANDSCAPE PLAN |  |                      |      |
| DRAWING NO.    |  | SHEET NO.            | REV  |
| 25927-210      |  | H0130-00000-ZN-70001 | 06 2 |

### LEGEND

- GUY WIRE
- IRON PIPE FOUND
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- UNDERGROUND GAS
- UNDERGROUND WATER
- TREELINE
- OVERHEAD ELECTRIC
- PROPERTY LINE
- MAJOR CONTOUR
- MINOR CONTOUR

### SITE WORK LEGEND

- PROPERTY LINE
- SETBACK LINE
- 8' BLACK VINYL COATED CHAIN LINK FENCE
- PROPOSED TREE LINE
- EXISTING ACCESS EASEMENT LINE
- PROPOSED CORRIDOR LINE
- UNDERGROUND ELECTRIC SERVICE
- UNDERGROUND FIBER OPTIC CABLE ROUTE
- TELEPHONE LINE
- UNDERGROUND NATURAL GAS SERVICE
- GRAVEL PAVEMENT
- CONCRETE PAVEMENT

### PLANTING LIST (TREES)

| BOTANICAL/<br>COMMON NAME            | TYPE                       | QUANTITY | SYMBOL | SIZE AT<br>PLANTING | ROOT TYPE | LOCATION               |
|--------------------------------------|----------------------------|----------|--------|---------------------|-----------|------------------------|
| PRUNUS CAROLINIANA/<br>CHERRY LAUREL | SMALL<br>EVERGREEN<br>TREE | 2        |        | 6' HT.              | B & B     | ENCLOSURE<br>SCREENING |
| MYRICA CERIFERA/<br>WAX MYRTLE       | EVERGREEN<br>SHRUB         | 63       |        | 3' HT.              | CONTAINER | ENCLOSURE<br>SCREENING |

### GENERAL SEEDING SCHEDULE

- LIME, SEED AND FERTILIZER SHALL BE APPLIED WITH NECESSARY EQUIPMENT TO GIVE UNIFORM DISTRIBUTION OF THESE MATERIALS. THE KINDS OF MATERIALS TO BE APPLIED PER ACRE:  

| TEMPORARY SEEDING | DATE              | TYPE   | PLANTING RATE |
|-------------------|-------------------|--|---------------|
|                   | JAN. 1 - MAY 1    | RYE (GRAIN) 120 LBS./ACRE<br>KOBE LESPEDEZA * 50 LBS./ACRE |               |
|                   | MAY 1 - AUG. 15   | GERMAN MILLET ** 40 LBS./ACRE                              |               |
|                   | AUG. 15 - DEC. 30 | RYE (GRAIN) 120 LBS./ACRE                                  |               |
| PERMANENT SEEDING | DATE              | TYPE   | PLANTING RATE |
|                   | AUG. 20 - OCT. 25 | TALL FESCUE  | 200 LBS./ACRE |
|                   | FEB. 1 - APR. 15  | KOBE LESPEDEZA   | 20 LBS./ACRE  |
|                   |                   | SERICEA LESPEDEZA  | 60 LBS./ACRE  |

\* OMIT KOBE LESPEDEZA WHEN DURATION OF TEMPORARY COVER IS NOT TO EXTEND BEYOND JUNE.  
\*\* A SMALL-STEMMED SUDANGRASS MAY BE SUBSTITUTED AT A RATE OF 50 LBS./ACRE.  
\*\*\* QUANTITY OF FERTILIZER AND LIME SHALL BE CONFIRMED BY SOILS TEST.
- SEEDED AREA SHALL BE CULPACKED TO FIRM SEEDBED AND COVER SEED.
- GRAIN STRAW SHALL BE APPLIED OVER SEEDED AREAS AS A MULCH WITHIN 24 HOURS OF THE INITIAL SEEDING OPERATION. NO BARE GROUND SHALL BE VISIBLE WHEN RIDING BY A MULCHED AREA IF PROPER APPLICATION IS ACHIEVED. THICK CLUMPS OF STRAW ARE NOT PERMISSIBLE AS A UNIFORM COVERAGE IS EXPECTED.
- DITCH TREATMENT SHALL BE USED IN AREAS WHERE STEEP GRADES COULD CAUSE DITCH EROSION. USE OF EXCELSIOR MATTING OR FIBERGLASS/SYNTHETIC ROVING IS ACCEPTABLE. DITCH TREATMENT SHALL BE INSTALLED BEFORE MULCHING OPERATION.
- MULCHED AREA SHALL BE TACKED WITH A POLYMER BASED TACKIFIER. APPLY POLYMER PER MANUFACTURING RECOMMENDATIONS SPECIFIC TO EACH AREA OF APPLICATION (I.E. STEEP SLOPES, FLAT AREAS, ETC.). REAPPLY POLYMER AS NECESSARY TO PREVENT EROSION DURING VEGETATION ESTABLISHMENT.
- PROVIDE TEMPORARY SEEDING WITHIN SEVENTY-TWO (72) HOURS AFTER CLEARING AND GRUBBING OPERATION IF THE AREA IS TO REMAIN UNDISTURBED FOR MORE THAN FOURTEEN (14) WORKING DAYS. PROVIDE TEMPORARY SEEDING WITHIN SEVENTY-TWO (72) HOURS OF ESTABLISHING FINAL GRADES. PROVIDE PERMANENT SEEDING WITHIN FOURTEEN (14) WORKING DAYS OF ESTABLISHING FINAL GRADES. SLOPES SHALL BE SEEDED WITHIN FOURTEEN (14) CALENDAR DAYS.
- CONTRACTOR SHALL WATER SEEDED AREAS AS NECESSARY TO ESTABLISH VEGETATION.
- CONTRACTOR SHALL WARRANT VEGETATION GROWTH FOR ONE YEAR.

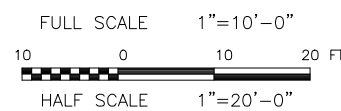


PERMANENT SEEDING TO TOWN OF CARRBORO STANDARDS



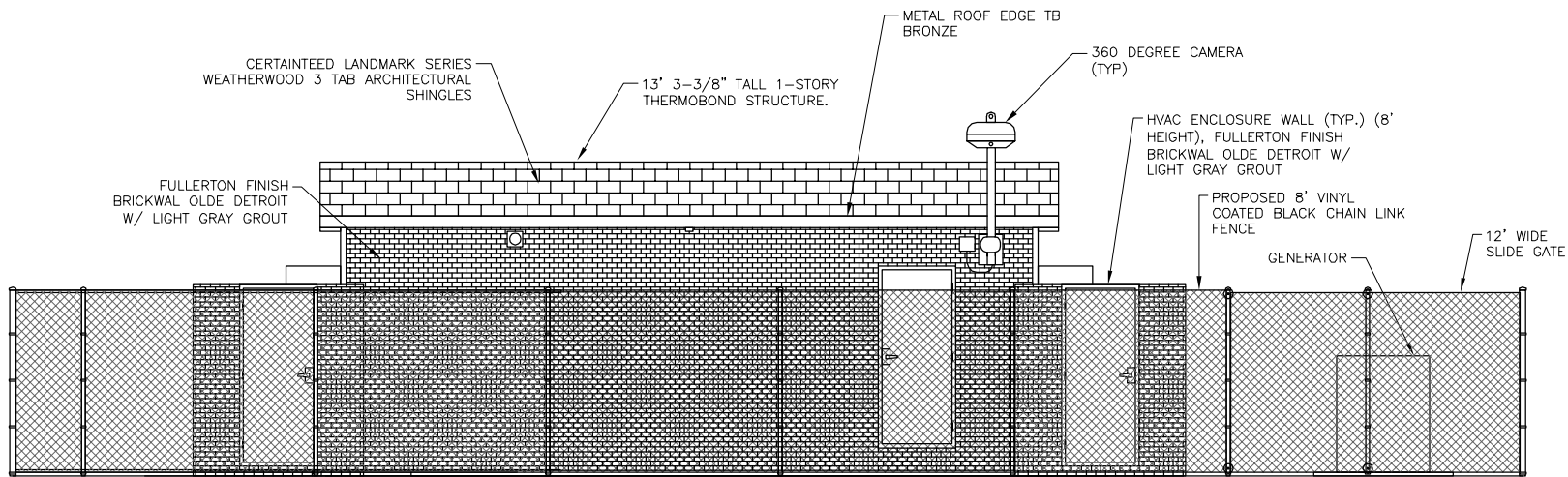
MULCH TO TOWN OF CARRBORO STANDARDS

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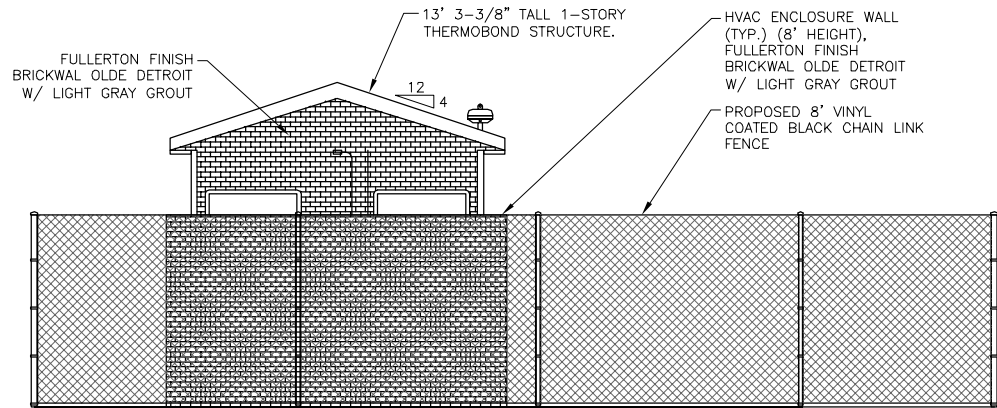




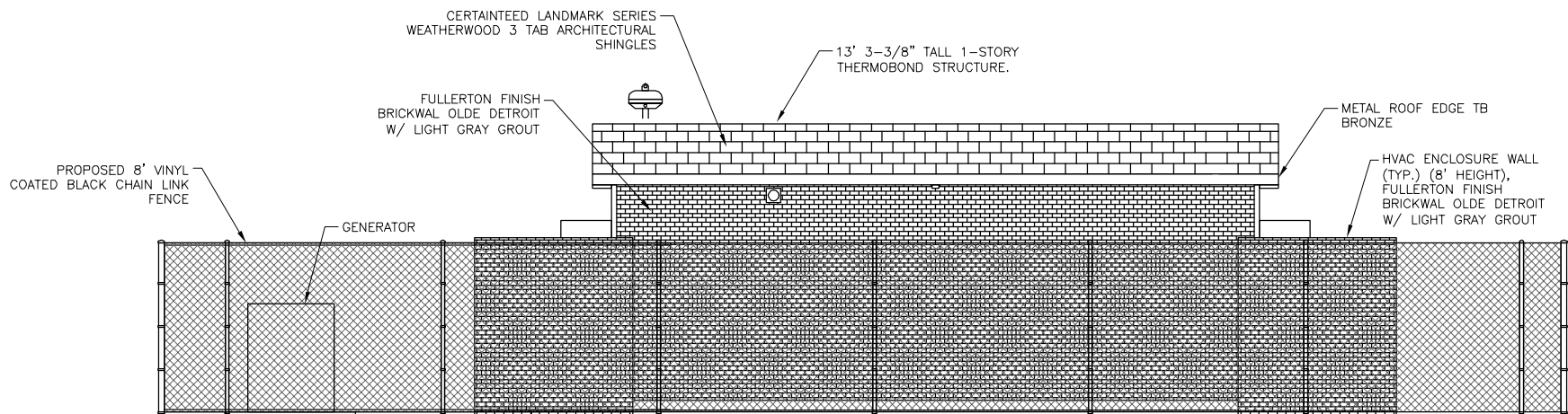
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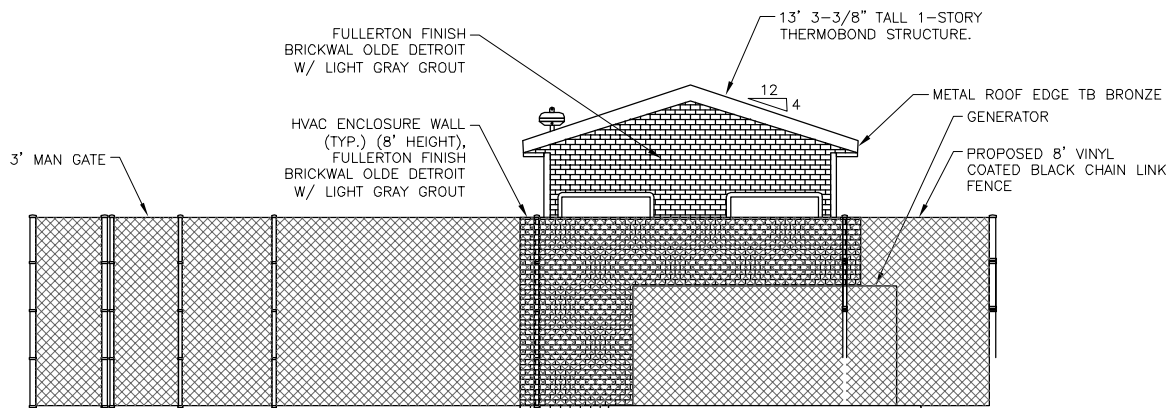
ELEVATION VIEW FROM EAST



ELEVATION VIEW FROM SOUTH



ELEVATION VIEW FROM WEST



ELEVATION VIEW FROM NORTH

|                                      |         |
|--------------------------------------|---------|
| AREA OF FACADE WALLS:                | 1310 SF |
| AREA OF WINDOWS AND DOORS:           | 80 SF   |
| TOTAL FACADE WALL AREA:              | 1390 SF |
| AREA OF PREDOMINANT FACADE FEATURE:  | 100%    |
| AREA OF NON-DOMINANT FACADE FEATURE: | 0%      |

NOTES:

1. EXTERIOR LIGHT TO BE WPLED10 LED 10W - DARK SKY APPROVED, PER THERMOBOND SHELTER DRAWINGS. THERMOBOND SHELTER DESIGN, DRAWINGS, AND SPECS BY OTHERS.



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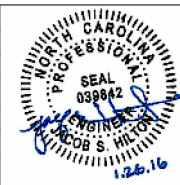
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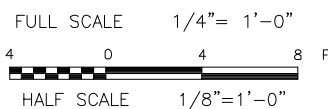
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|-----------------|----------|---------------------------|---------------|-----|------|-------|--|--|--|
|                 |          |                           |               |     |      |       |  |  |  |
|                 |          |                           |               |     |      |       |  |  |  |
| 1               | 01-25-16 | RESPONSE TO TOWN COMMENTS | CPR           | LWM | LWM  | LWM   |  |  |  |
| 0               | 08-28-15 | ZONING SUBMITTAL          | JJB           | LWM | LWM  | LWM   |  |  |  |
| NO.             | DATE     | REVISIONS                 | BY            | CHK | SUPV | APP'D |  |  |  |
| SCALE: AS SHOWN |          | DESIGNED BY: JJB          | DRAWN BY: JJB |     |      |       |  |  |  |



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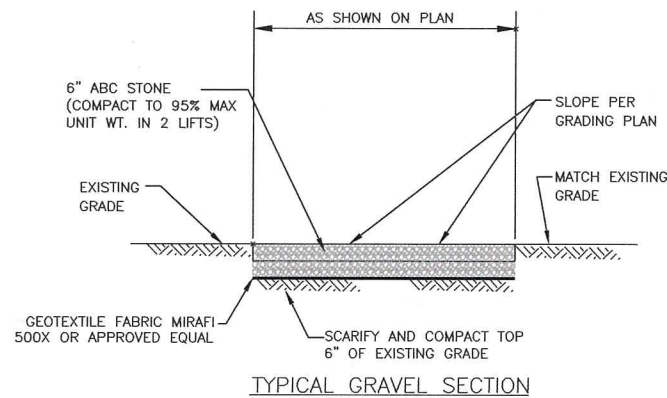


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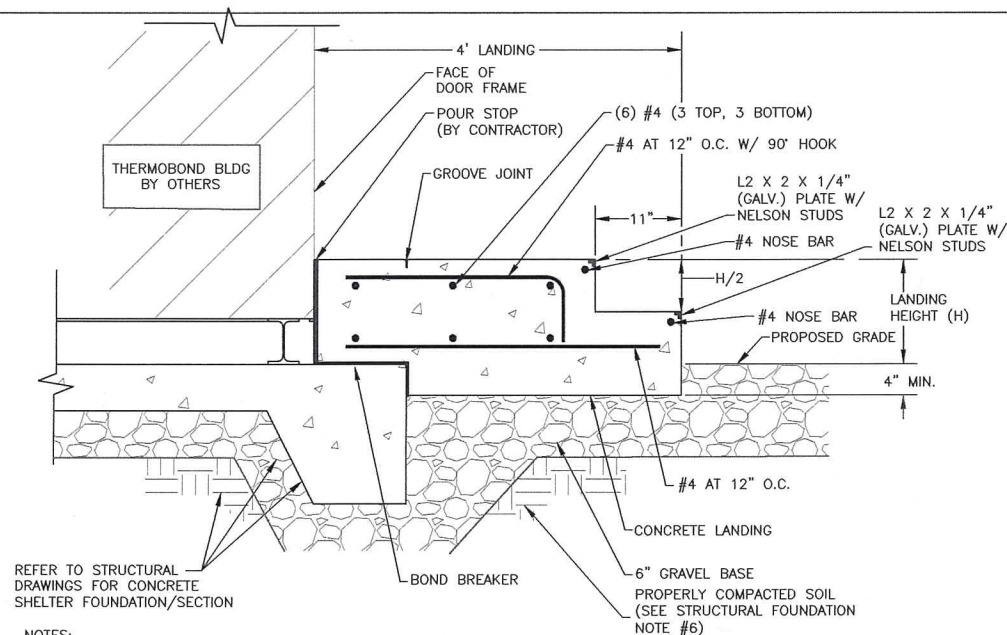
COMPOUND ELEVATION

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| 25927-210 | H0130-00000-ZN-70001 | 07        | 1   |





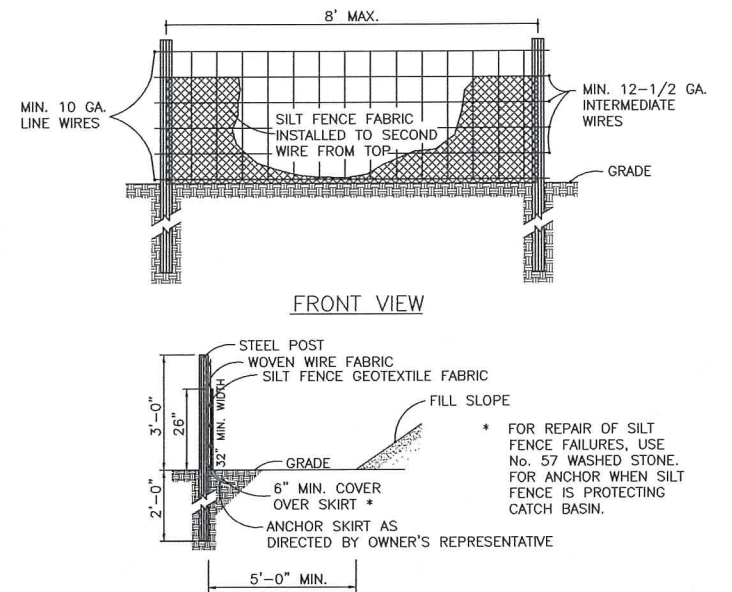
DETAIL 1  
NTS 08



- NOTES:
1. CONCRETE LANDING SHALL HAVE SAME CONCRETE COMPRESSIVE STRENGTH AS FIBER HUT PAD (4,500 PSI, 28 DAYS CONCRETE WITH REINFORCEMENT) OVER 6" GRAVEL BASE WITH COMPACTED SUBGRADE AS SHOWN ABOVE.
  2. CONCRETE LANDING SHALL BE PLACED A MINIMUM OF 4" BELOW GRADE.
  3. CONCRETE LANDING SHALL BE 3' WIDE BY 4' LONG. REFER TO SITE PLAN FOR ADDITIONAL DIMENSIONS/INFORMATION.
  4. CONTRACTOR SHALL LINE UP GROOVE JOINT WITH THE EDGE OF THE HUT FOUNDATION SLAB. BRUSH FINISH LANDING.
  5. THE LANDING ELEVATION SHALL BE 1/4 INCHES BELOW THE FINISHED FLOOR ELEVATION OF THE HUT.

#### CONCRETE LANDING DETAIL

DETAIL 2  
NTS 08



#### GENERAL NOTES:

1. SILT FENCE SHALL BE INSTALLED A MINIMUM OF 5' OUTSIDE TOE OF EARTHFILL EMBANKMENTS. MAY ALSO BE INSTALLED AROUND ALL STORM DRAIN INLETS, & MANHOLES AS DIRECTED.
2. WIRE SHALL BE A MINIMUM OF 36" IN WIDTH AND SHALL HAVE A MAXIMUM MESH SPACING OF 6".
3. FILTER FABRIC SHALL BE A MINIMUM OF 36" IN WIDTH AND SHALL BE FASTENED SECURELY TO THE WIRE.
4. STEEL POSTS SHALL BE 5'-0" IN HEIGHT AND BE OF SELF-FASTENER ANGLE STEEL TYPE.
5. USE SILT FENCE ONLY WHEN DRAINAGE AREA DOES NOT EXCEED 1/4 ACRE AND NEVER IN AREAS OF CONCENTRATED FLOW.
6. END OF SILT FENCE NEEDS TO BE TURNED UPHILL.

THE FILTER FABRIC SHALL MEET THE FOLLOWING REQUIREMENTS:

- A) EFFECTIVE OPEN SIZE IS NOT LARGER THAN U.S. STANDARD SIEVE NO.30
- B) GRAB STRENGTH 90-120 LB

#### MAINTENANCE REQUIREMENTS:

1. INSPECT SILT FENCES AT LEAST ONCE A WEEK AND AFTER EACH RAINFALL. MAKE ANY REQUIRED REPAIRS IMMEDIATELY.
2. REPLACE SILT FENCE IMMEDIATELY IF IT COLLAPSES, TEARS, DECOMPOSES, OR BECOMES INEFFECTIVE.
3. REMOVE SEDIMENT DEPOSITS AS NECESSARY TO PROVIDE ADEQUATE STORAGE VOLUME FOR THE NEXT RAIN EVENT AND TO REDUCE PRESSURE ON THE FENCE.
4. REMOVE ALL FENCING MATERIALS AND UNSTABLE SEDIMENT DEPOSITS AND BRING THE AREA TO GRADE AND STABILIZE IT AFTER THE CONTRIBUTING AREA HAS BEEN PROPERLY STABILIZED.

#### TYPICAL SILT FENCE DETAIL (TEMPORARY)

DETAIL 3  
NTS 08

**Get Away Vault - XL**  
Description: BULK 36" x 76" x 42" HDPE body and 2 piece SHIELD Polymer Cover w/ bolt down locking system  
CPN: GSXL  
GPN: 07108438

**FEATURES:**

- BULK vault body: HDPE structural foam (plastic) body w/ embedded, factory installed metal racking
- Body- HDPE w/ Open floor
- Cover- 2 piece Polymer Cover w/ Bolt down locking system
- 2 - 3/8" - 16 UNC bolt access holes per half
- 1 - 3/4" x 3" Lifting Slot per half
- 2 - Blank Logo Pucks - 1 per half
- 1 galvanized steel support beam
- Non-skid surface: SHIELD Tread
- Load Rating: ANSI/SCTE 77-2010 Tier 15

**WEIGHT & SHIPPING:**

- Cover Weight: 79 lbs (per half)
- Assembly Weight: 455 lbs
- Loaded Pallet Weight: 455 lbs
- Per Pallet #: 1
- Pallet Dimensions: 42" x 84" x 5"

**LOAD RATINGS:**

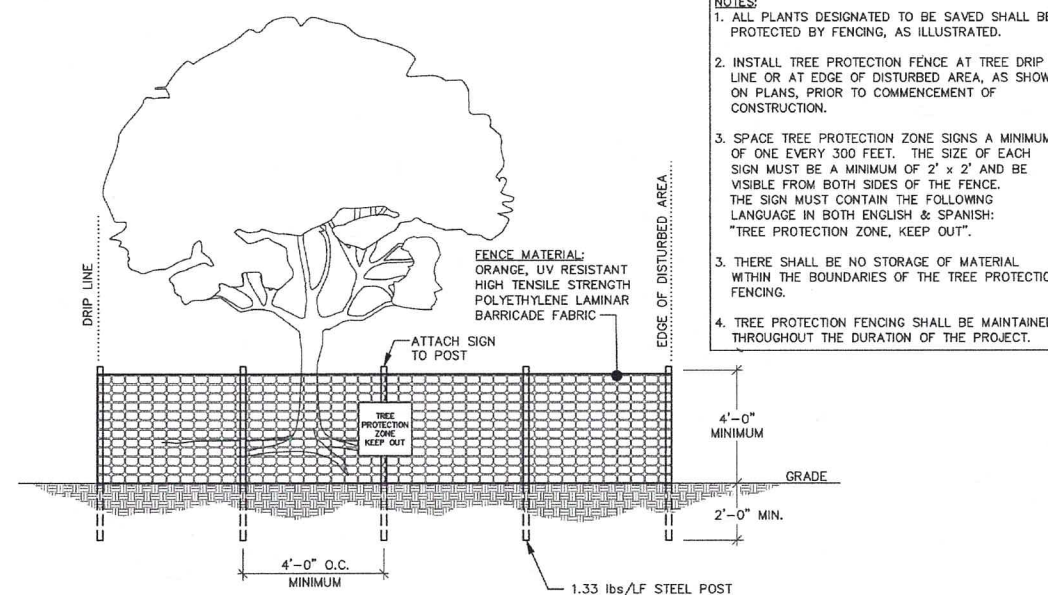
- ANSI/SCTE 77-2010 Tier 15
- See attached Color Coded Placement Guide
- Color Type: Orange or Purple

**CHANNELL**

| Inside Dimensions |       |       |
|-------------------|-------|-------|
| Length            | Width | Depth |
| 74.375            | 34.75 | 39"   |

#### TYPICAL VAULT DETAIL

DETAIL 4  
NTS 08



#### TREE PROTECTION FENCE

DETAIL 5  
NTS 08

## Fiber Project

#### ZONING & SUP DRAWINGS NOT FOR CONSTRUCTION



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**FIBER HUT ID #: RDU130**  
145 FIDELITY ST.  
CARRBORO, NC 27510

| NO.    | DATE     | REVISIONS                 | BY  | CHK       | SUPV | APP'D |
|--------|----------|---------------------------|-----|-----------|------|-------|
| 1      | 01-25-16 | RESPONSE TO TOWN COMMENTS | CPR | LWM       | LWM  | LWM   |
| 0      | 08-28-15 | ZONING SUBMITTAL          | JJB | LWM       | LWM  | LWM   |
| SCALE: | AS SHOWN | DESIGNED BY:              | JJB | DRAWN BY: | JJB  |       |

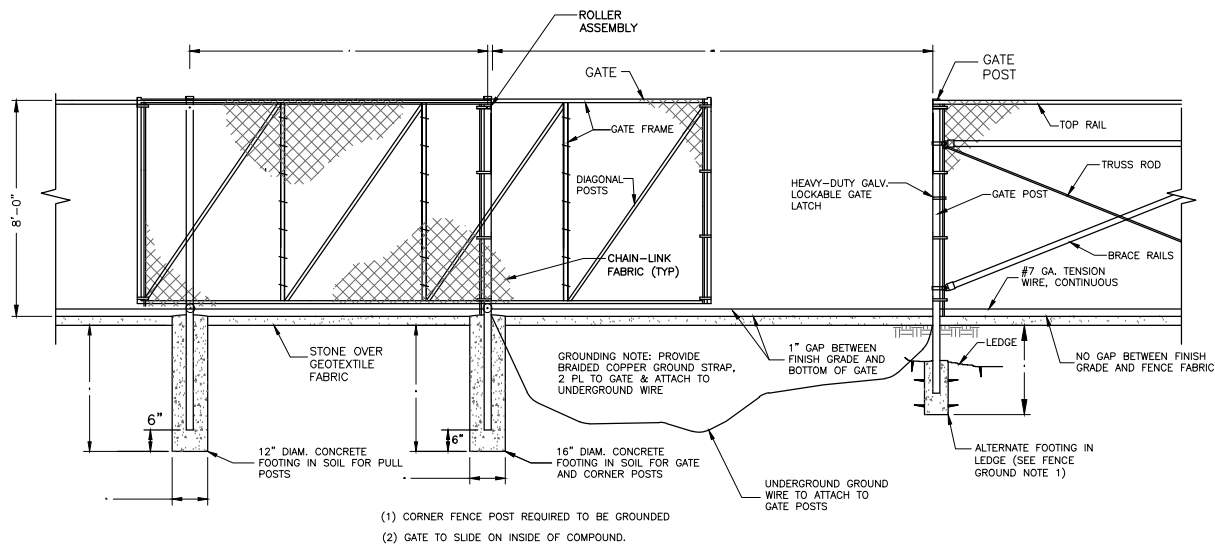


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#### SITE DETAILS

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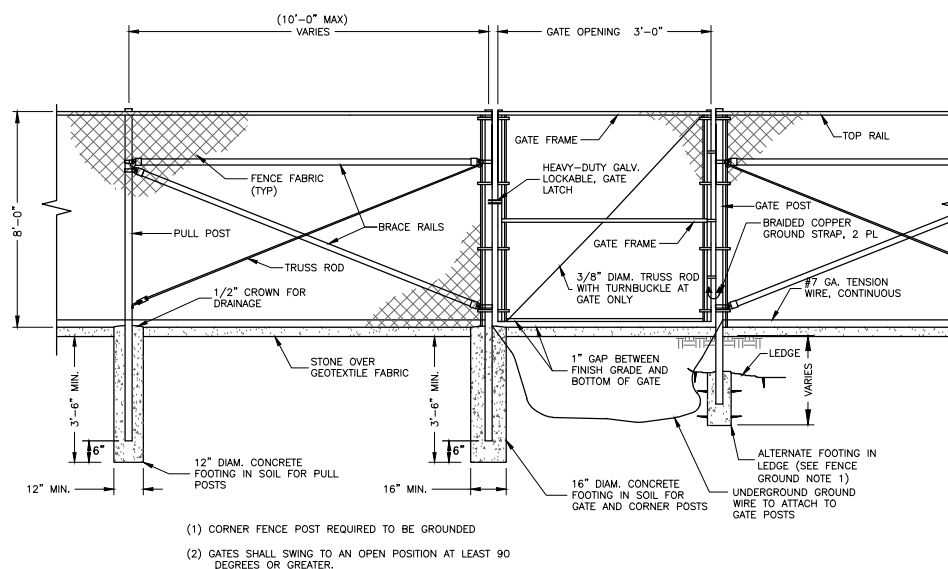


- (1) CORNER FENCE POST REQUIRED TO BE GROUNDED  
(2) GATE TO SLIDE ON INSIDE OF COMPOUND.

TYPICAL SLIDING GATE DETAIL

DETAIL 1  
NTS 09

NOTE: ALL FENCE AND GATE MATERIALS, INCLUDING CHAIN LINK FABRIC, POSTS, ETC. SHALL BE BLACK VINYL PVC COATED.

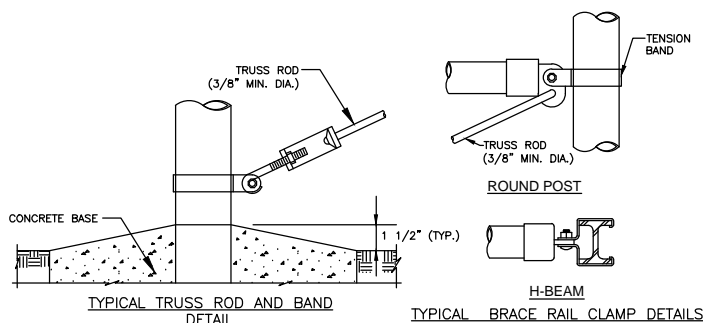


- (1) CORNER FENCE POST REQUIRED TO BE GROUNDED  
(2) GATES SHALL SWING TO AN OPEN POSITION AT LEAST 90 DEGREES OR GREATER.

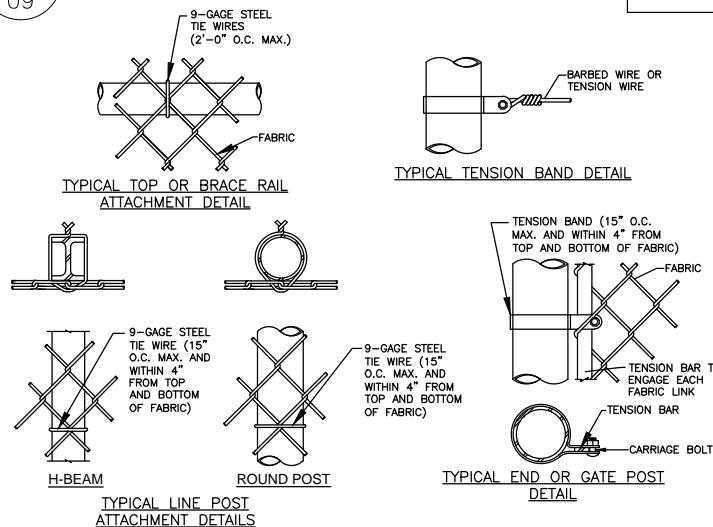
TYPICAL MAN GATE DETAIL

DETAIL 2  
NTS 09

NOTE: ALL FENCE AND GATE MATERIALS, INCLUDING CHAIN LINK FABRIC, POSTS, ETC. SHALL BE BLACK VINYL PVC COATED.

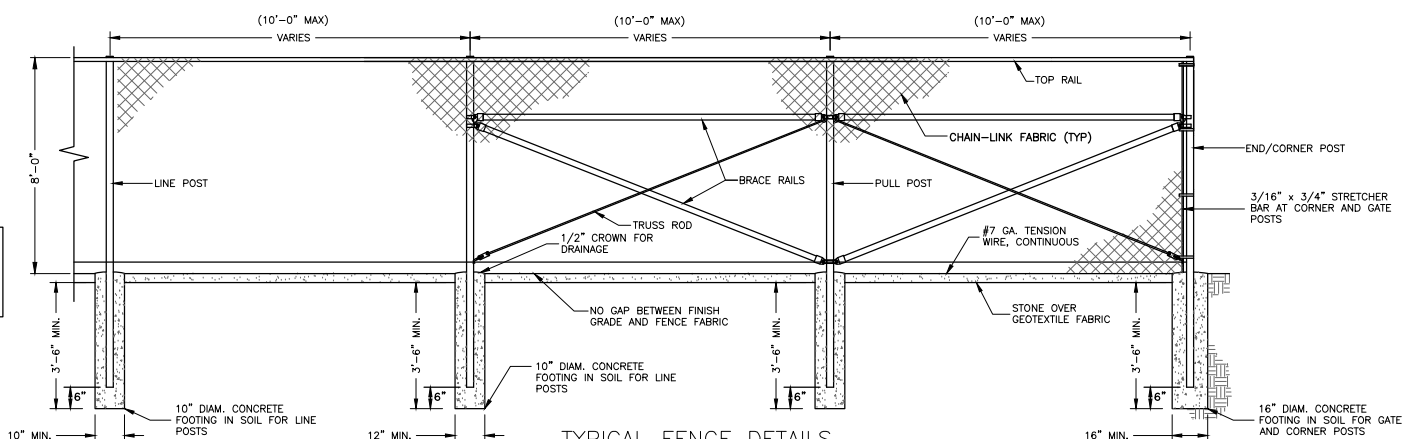


TYPICAL FASTENING DETAILS



TYPICAL TENSION BAND DETAIL

TYPICAL END OR GATE POST DETAIL



TYPICAL FENCE DETAILS

DETAIL 3  
NTS 09

NOTE: ALL FENCE AND GATE MATERIALS, INCLUDING CHAIN LINK FABRIC, POSTS, ETC. SHALL BE BLACK VINYL PVC COATED.

#### NOTES:

- FENCE FABRIC SHALL BE 2 INCH SQUARE MESH WITH MINIMUM WIRE THICKNESS OF 9 GAUGE (WITHOUT COATING) STEEL WIRE.
- POSTS SHALL BE SCHEDULE 40 (MIN.) STEEL POSTS. FENCE POSTS, BRACING, AND OTHER STRUCTURAL MEMBERS SHALL BE PLACED ON SITE SIDE OF THE FABRIC.
- FENCE FABRIC SHALL BE SECURELY FASTENED WITH TENSION WIRES WITH 9 GAUGE GALVANIZED TIE WIRES INCORPORATING AT LEAST A 540 DEGREE TIGHTENED LOOP.
- CONTRACTOR SHALL PROVIDE NECESSARY GRADE SUCH THAT FENCE FABRIC EXTENDS WITHIN 2 INCHES OF FIRM GROUND. PROVIDE ANCHORING TO PREVENT THE FABRIC FROM BEING LIFTED MORE THAN 5 INCHES. FENCE FABRIC MAY ALSO BE BURIED 12 INCHES.
- FENCE FABRIC SHALL BE INTERWOVEN OR CLIPPED ALONG THE TOP AND THE BOTTOM ROW OF FABRIC DIAMONDS AND HAVE TWISTED AND BARBED SELVAGE AT THE BOTTOM AND THE TOP.
- POSTS SHALL BE THE SAME MATERIAL AS THE FENCING WIRE.
- POSTS SHALL BE VERTICAL WITHIN PLUS OR MINUS 2 DEGREES IN TWO PLANES.
- POSTS SHALL BE BURIED AND ENCASED IN CONCRETE FOOTINGS. FOOTINGS SHALL BE MINIMUM 3'-6" IN DEPTH.
- POST SEPARATION SHALL BE A MAXIMUM OF 10 FEET.
- EACH GATE, TERMINAL, AND END POST SHALL BE BRACED WITH TRUSS RODS INSTALLED DIAGONALLY FROM THE NEAR GROUND LEVEL OF THE GATE, TERMINAL OR END POST TO THE TOP OF THE ADJACENT LINE POST. THIS CONNECTION POINT SHALL BE NO HIGHER THAN 6 INCHES DOWN FROM THE TOP OF THE FABRIC. THE ANGLE BETWEEN THE TRUSS ROD AND THE GROUND SHALL BE NO MORE THAN 50 DEGREES. STEEL TRUSS RODS SHALL BE NOT LESS THAN 3/8 INCH NOMINAL DIAMETER WITH TURNBUCKLES FOR TENSIONING.
- ALL FASTENINGS AND HINGE HARDWARE SHALL BE SECURED IN PLACE BY PEENING OR WELDING.
- ASTM STANDARDS SHALL BE FOLLOWED FOR ALL MATERIALS, INSTALLATIONS, AND REPAIRS OF STANDARD FENCING FABRIC.
- ALL FENCING ACCESSORIES USED IN THE ERECTION OF CHAIN-LINK FENCES SHALL MEET ASTM SPECIFICATIONS.
- ALL FITTINGS SHALL BE ELECTROLYTICALLY COMPATIBLE WITH CONNECTING FITTINGS, COMPONENTS, AND FENCE FABRIC TO INHIBIT CORROSION.
- WHERE THE BOTTOM OF FENCE FABRIC CANNOT BE 2" OR LESS FROM THE GROUND SURFACE, SUCH AS WHERE FENCING CROSSES DRAINAGE DITCHES OR SWALES, THE CONTRACTOR SHALL PROVIDE ADDITIONAL FENCING ACROSS THE DITCH OR SWALE. FENCING ADDED BELOW SHALL BE ATTACHED A MINIMUM OF EVERY 2" ALONG THE INTERSECTION OF THE TWO FENCE SECTIONS AND ATTACHED TO A SERIES OF GROUND STAKES SECURED TO THE SIDES AND BOTTOM OF THE DITCH.
- CONTRACTOR SHALL GRADE ALONG FENCE LINE TO ALLOW POSITIVE DRAINAGE AROUND COMPOUND TO AVOID PONDING.

#### STEEL POST SCHEDULE

| USE AND SECTION              | MINIMUM OUTSIDE DIMENSIONS (NOMINAL) |
|------------------------------|--------------------------------------|
|                              | FABRIC WIDTH 84" TO 96"              |
| CORNER, END & PULL POSTS     | 2.875" O.D.                          |
| TUBULAR - ROUND              |                                      |
| LINE POSTS                   | 2.375" O.D.                          |
| TUBULAR - ROUND              |                                      |
| TOP, BOTTOM & BRACE RAILS    | 1.66" O.D.                           |
| TUBULAR - ROUND              |                                      |
| GATE POSTS (MAN/SWING GATES) | 2.875" O.D.                          |
| TUBULAR - ROUND              |                                      |
| GATE POSTS (SLIDE GATES)     | 4.500" O.D.                          |
| TUBULAR - ROUND              |                                      |

#### FENCE GROUNTING NOTES:

- ALTERNATE FOOTINGS FOR ALL FENCE POSTS IN LEDGE: IF LEDGE IS ENCOUNTERED AT GRADE, OR AT A DEPTH SHALLOWER THAN 3'-6", CORE DRILL AN 8" DIA HOLE 18" INTO THE LEDGE. CENTER POST IN THE HOLE AND FILL WITH CONCRETE OR GROUT. IF LEDGE IS BELOW FINISH GRADE, COAT BACKFILLED SECTION OF POST WITH COAL TAR, AND BACKFILL WITH WELL-DRAINING GRAVEL.
- ATTACH EACH GATE WITH 1-1/2 PAIR OF NON-LIFT-OFF TYPE, MALLEABLE IRON OR FORGING, PIN-TYPE HINGES. ASSEMBLIES SHALL ALLOW FOR 90° MINIMUM OF GATE TRAVEL.



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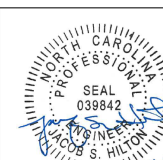
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|-----------------|----------|---------------------------|------------------|-----|---------------|-------|
| 2               | 02-11-16 | RESPONSE TO TOWN COMMENTS | CPR              | LWM | LWM           | LWM   |
| 1               | 01-25-16 | RESPONSE TO TOWN COMMENTS | CPR              | LWM | LWM           | LWM   |
| 0               | 08-28-15 | ZONING SUBMITTAL          | JB               | LWM | LWM           | LWM   |
| SCALE: AS SHOWN |          |                           | DESIGNED BY: JJB |     | DRAWN BY: JJB |       |



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