

Copyright © Bechtel Associates Professional Corporation 2015. This item contains confidential information proprietary to Bechtel that is not to be used, disclosed, or reproduced in any format by any non-Bechtel party without Bechtel's prior written permission. All rights reserved.

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
100 PERIMETER PARK DRIVE, SUITE H
MORRISVILLE, NC 27560

PROJECT MANAGER: BETTY CHANG

ENGINEERING CONTACT: PAUL KOSKI

PERMITTING CONTACT: STEVE GRAHAM

JURISDICTION: DURHAM COUNTY, NC

LATITUDE: N 36.0771089 (WGS84)

LONGITUDE: W 78.9133291 (WGS84)

ASSIGNED ADDRESS: 135 LATTA ROAD, DURHAM, NC 27712

DRAWING INDEX

| DRAWING NO. | SHT. NO. | DESCRIPTION | REV |
|----------------------|----------|--------------------------------|-----|
| H0128-00000-ZN-70001 | 01 | TITLE SHEET | 0 |
| H0128-00000-ZN-70001 | 02 | EXISTING CONDITIONS PLAN | 0 |
| H0128-00000-ZN-70001 | 03 | SITE & UTILITY PLAN | 0 |
| H0128-00000-ZN-70001 | 04 | GRADING & EROSION CONTROL PLAN | 0 |
| H0128-00000-ZN-70001 | 05 | LANDSCAPE PLAN | 0 |
| H0128-00000-ZN-70001 | 06 | ELEVATION | 0 |
| H0128-00000-ZN-70001 | 07 | DETAILS | 0 |

*FOR UTILITY SHELTER DESIGN, SEE PLANS BY THEMOBOND BUILDINGS, PROJECT NUMBER 1501-10-4 RDU128, DATED XX-XX-2015

SITE DATA TABLE

| | |
|-------------------------------|--|
| PIN | 082402565645 |
| ZONING | RS-20 |
| WATERSHED | ENO RIVER |
| OVERLAY DISTRICT | E-8 (ENO RIVER DISTRICT B) |
| RIVER BASIN | NEUSE RIVER BASIN |
| CURRENT USE | WILD/PARKS & REC (CITY) |
| PROPOSED USE | WILD/PARKS & REC (CITY) & LANDSCAPED UTILITY ENCLOSURE |
| PARCEL ACREAGE | 18.91 AC. |
| EXISTING IMPERVIOUS AREA | 0.18 AC. (1.0% IMPERVIOUSNESS) |
| PROPOSED IMPERVIOUS AREA | 0.24 AC. (1.4% IMPERVIOUSNESS) |
| NET CHANGE IN IMPERVIOUS AREA | 0.06 AC. |
| TOTAL DISTURBED AREA | 0.25 AC. |
| PARKING DATA | 0 SPACES REQUIRED (UNINHABITED BUILDING), 0 SPACES PROVIDED |
| BICYCLE PARKING DATA | 0 SPACES REQUIRED, 0 SPACES PROVIDED |
| BUILDING SQUARE FOOTAGE | 360 SF |
| TREE COVERAGE | TREE COVERAGE PROVIDED TO MEET CITY OF DURHAM UNIFIED DEVELOPMENT ORDINANCE. SEE LANDSCAPE PLAN. |

Dewberry
Dewberry Engineers Inc.
2301 REXWOODS DRIVE
SUITE 200
RALEIGH, NC 27607
PHONE: 919.881.9939
FAX: 919.881.9923
NC LICENSE No.: F-0929

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

FIBER HUT ID #: RDU128
135 LATTA RD.
DURHAM, NC 27712

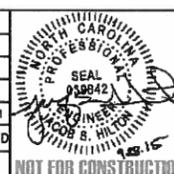
Fiber Project

| NO. | DATE | REVISIONS | BY | CHK | SUPV | APP'D |
|-----|----------|-------------------|-----|-----|------|-------|
| 0 | 09-28-15 | SUBMITTAL TO CITY | JSH | LWM | LWM | LWM |

SCALE: AS SHOWN

DESIGNED BY: JJB

DRAWN BY: DJL



NOT FOR CONSTRUCTION

Fiber Project

TITLE SHEET

| DRAWING NUMBER | SHEET NO. | REV |
|----------------|----------------------|-----|
| 25927-210 | H0128-00000-ZN-70001 | 01 |

Fiber Project

SITE PLAN

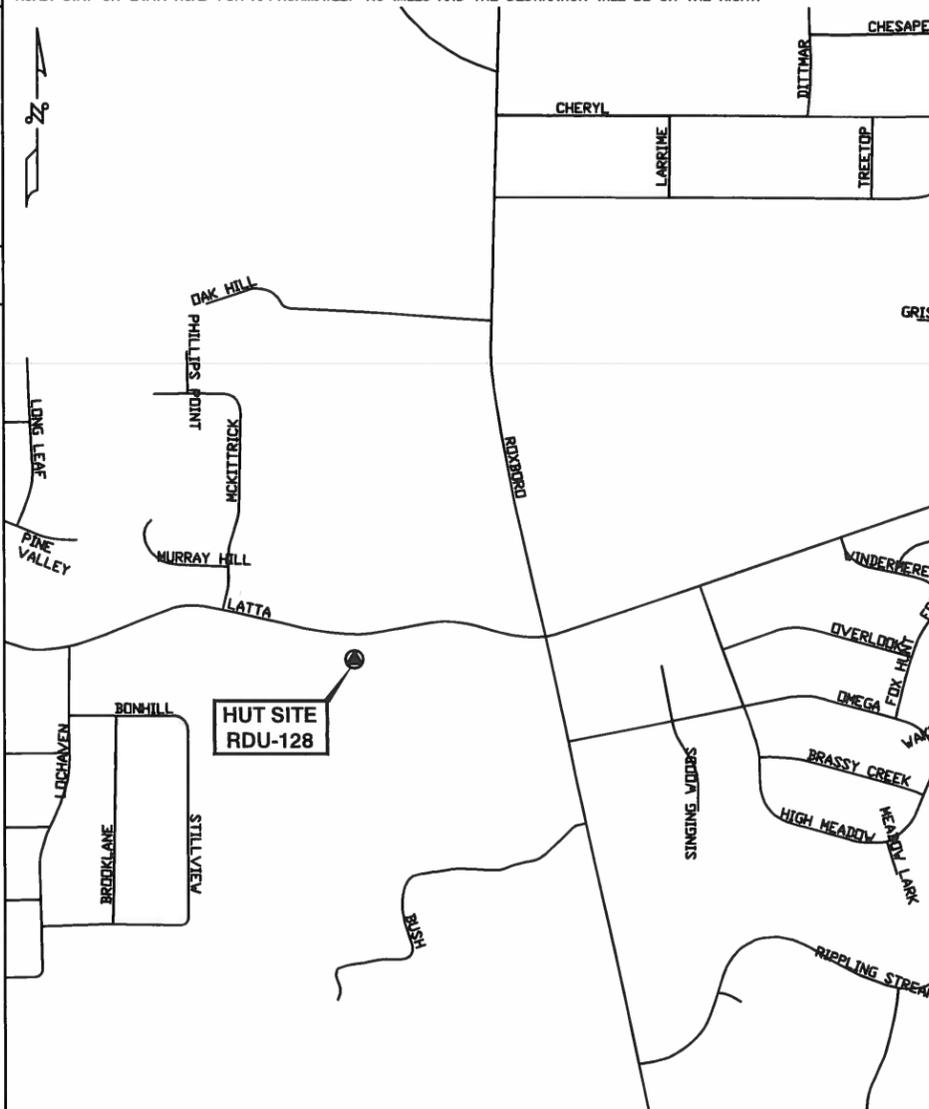
SITE NAME: LATTA ROAD

FIBER LAS ID NO.: RDU-128

FIBER HUT FACILITY DEPLOYMENT PROJECT

VICINITY MAP

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 TO MERGE ONTO I-40 WEST. TAKE EXIT 279B FOR NC 147 N. MERGE ONTO NC 147 N. TAKE EXIT 158 TO HILLDALE RD. MERGE RIGHT ONTO HILLDALE RD. IN 1.8 MILES, TURN RIGHT ONTO WEST CARVER STREET. IN 0.3 MILES, TURN LEFT ONTO NC 157 N/GUESS ROAD. IN 3.1 MILES, TURN RIGHT ONTO LATTA ROAD. STAY ON LATTA ROAD FOR APPROXIMATELY 1.0 MILES AND THE DESTINATION WILL BE ON THE RIGHT.



APPLICABLE BUILDING CODES AND STANDARDS

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-807-A,
COMMERCIAL BUILDING GROUNDING (EARTHING) AND BONDING REQUIREMENTS FOR TELECOMMUNICATIONS
NECA/IBECI-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

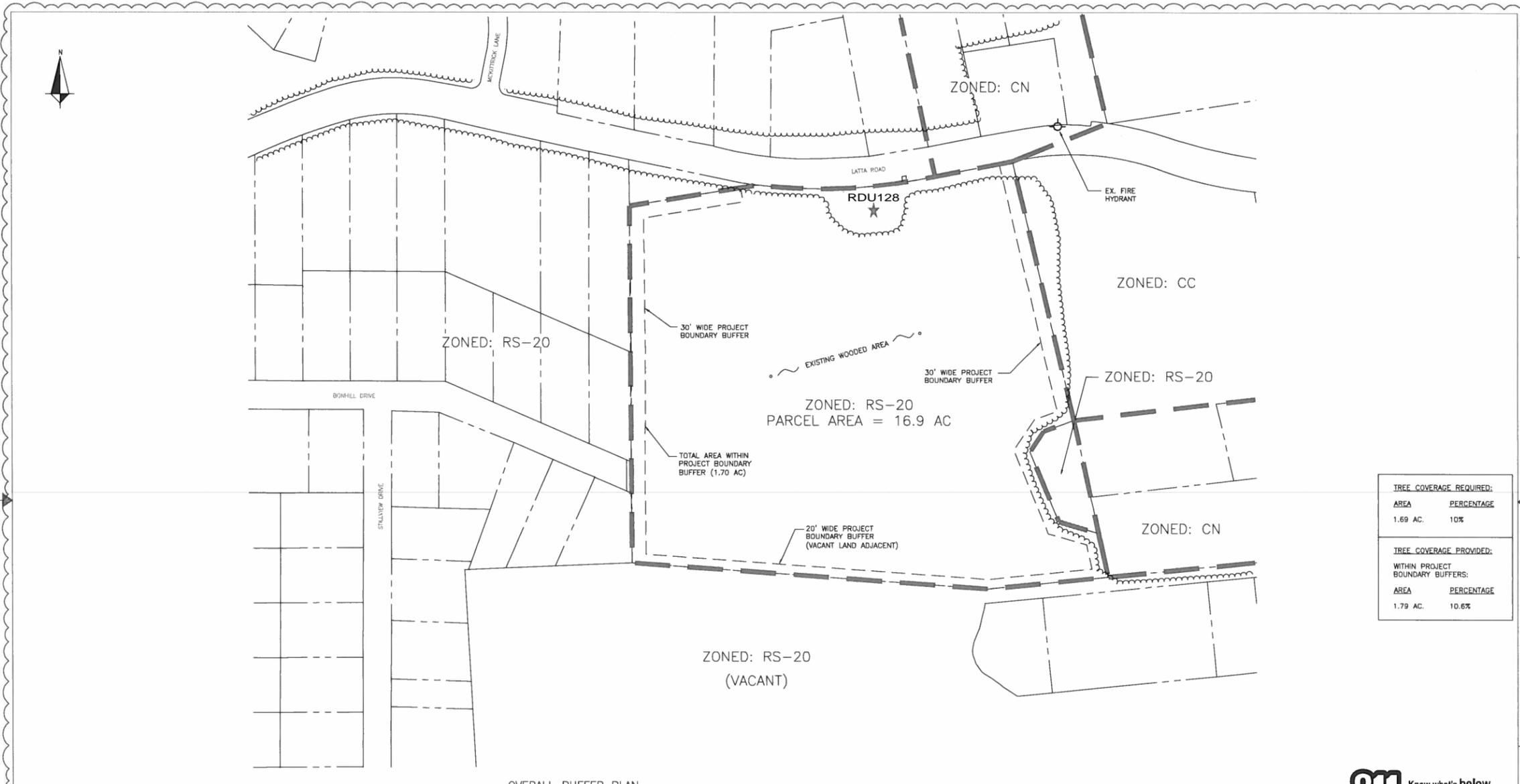
FOR ANY CONFLICTS BETWEEN SECTIONS OF LISTED CODES AND STANDARDS REGARDING MATERIAL, METHODS OF CONSTRUCTION, OR OTHER REQUIREMENTS, THE MOST RESTRICTIVE REQUIREMENT SHALL GOVERN. WHERE THERE IS CONFLICT BETWEEN A GENERAL REQUIREMENT AND A SPECIFIC REQUIREMENT, THE SPECIFIC REQUIREMENT SHALL GOVERN.

GENERATOR NOTE: PROPOSED PROJECT CONTAINS A CUMMINS G68 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.

GENERAL CONDITIONS OF APPROVAL

PROVIDE TWO (2) SETS OF APPROVED SITE PLAN DOCUMENTS TO ENGINEERING INSPECTIONS, 3RD FLOOR, 101 CITY HALL PLAZA, DURHAM, NC 27701 AT LEAST 5 DAYS PRIOR TO BEGINNING CONSTRUCTION AND CONTACT ENGINEERING INSPECTIONS AT 560-4326 AT LEAST 48 HOURS PRIOR TO BEGINNING CONSTRUCTION.
CASE #:

Copyright © Bechtel Associates Professional Corporation 2015. This item contains confidential information proprietary to Bechtel that is not to be used, disclosed, or reproduced in any form by any non-Bechtel party without Bechtel's prior written permission. All rights reserved.



| TREE COVERAGE REQUIRED: | |
|-------------------------|------------|
| AREA | PERCENTAGE |
| 1.69 AC. | 10% |

| TREE COVERAGE PROVIDED: | |
|----------------------------------|------------|
| WITHIN PROJECT BOUNDARY BUFFERS: | |
| AREA | PERCENTAGE |
| 1.79 AC. | 10.6% |

NOTE:
 1. SUBJECT PROPERTY RESIDES IN FEMA MAP #3720082400J PANEL Q824 AND IS LOCATED IN FLOOD ZONE AE (SEE OVERALL PROPERTY MAP, THIS SHEET).

LEGEND

| | |
|---|-----------------------|
| — | SUBJECT PROPERTY LINE |
| — | PROPERTY LINE |
| — | ZONING LINE |



| | |
|------------------|------------|
| FULL SCALE | 1"=100'-0" |
| 100 0 100 200 FT | |
| HALF SCALE | 1"=200'-0" |

Dewberry
 Dewberry Engineers Inc.
 2610 WYCLIFF ROAD
 SUITE 410
 RALEIGH, NC 27607
 PHONE: 919.881.9939
 FAX: 919.881.9923
 NC LICENSE No.: F-0929

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

FIBER HUT ID #: RDU128
 137 LATTA RD.
 DURHAM, NC 27712

Fiber Project

| NO. | DATE | REVISIONS | BY | CHK | SUPV | APP'D |
|-----|----------|---------------------------|-----|-----|------|-------|
| 1 | 02-04-16 | RESPONSE TO CITY COMMENTS | JSH | LWM | LWM | LWM |
| 0 | 09-28-15 | SUBMITTAL TO CITY | JSH | LWM | LWM | LWM |

SCALE: AS SHOWN DESIGNED BY: JSH DRAWN BY: JRD

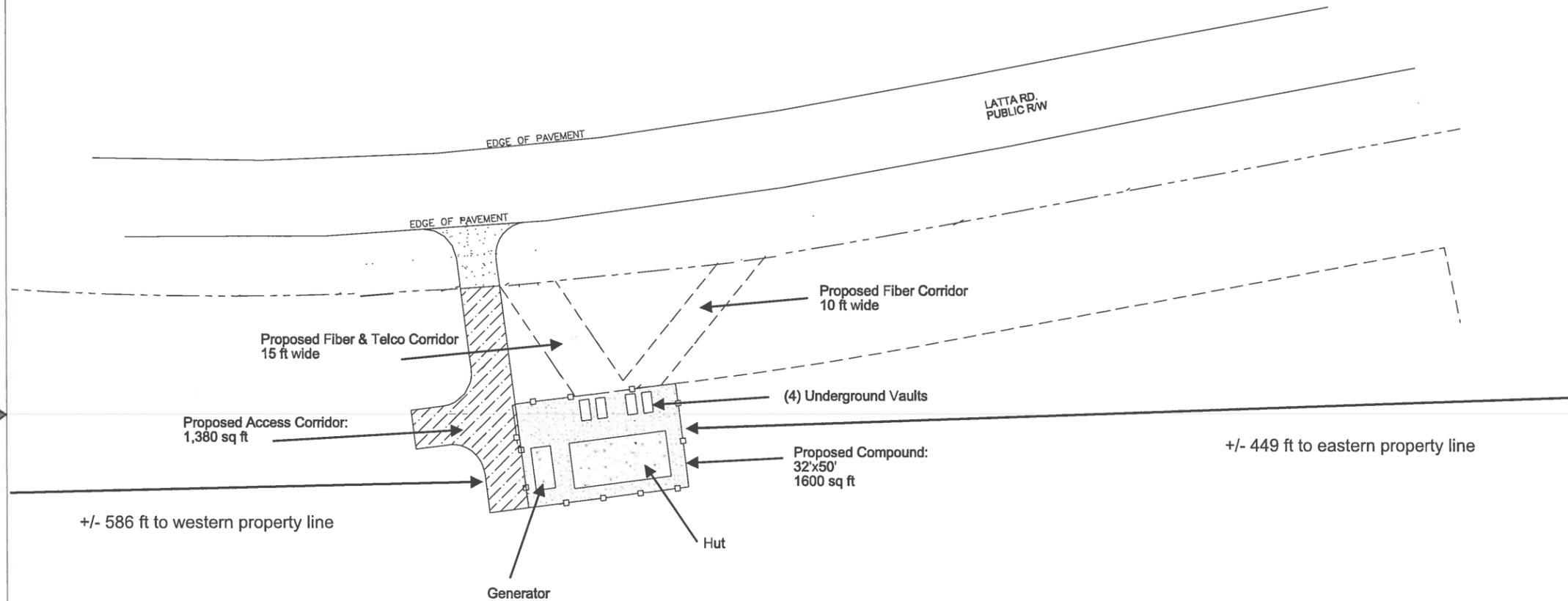


Fiber Project

OVERALL BUFFER PLAN

| DRAWING NUMBER | SHEET NO. | REV |
|----------------|----------------------|-------|
| 25927-210 | H0128-00000-ZN-70001 | 05A 1 |

Copyright © Bechtel Associates Professional Corporation 2015. This item contains confidential information proprietary to Bechtel that is not to be used, disclosed, or reproduced in any format by any non-Bechtel party without Bechtel's prior written permission. All rights reserved.



ZONING TABLE

| | |
|----------------------------------|---|
| PROPERTY OWNER | CITY OF DURHAM |
| ACREAGE | 16.91 AC. |
| COUNTY ID NUMBER | PIN: 082402565645 |
| ZONING | RS-20 |
| CURRENT USE | CITY PARK |
| PROPOSED USE | CITY PARK WITH MINOR UTILITY SUBSTATION |
| PROPOSED BUILDING SQUARE FOOTAGE | 360 |
| NUMBER OF PARKING SPACES | 0 SPACES REQUIRED 0 SPACES PROVIDED |
| NUMBER OF BICYCLE PARKING SPACES | 0 SPACES REQUIRED, 0 SPACES PROVIDED |
| LOT COVERAGE | EXISTING IMPERVIOUS AREA: 0.18 AC. PROPOSED BUILDING & GENERATOR: 0.01 AC. PROPOSED GRAVEL ENCLOSURE: 0.025 AC. PROPOSED DRIVEWAY: 0.025 AC TOTAL PROPOSED IMPERVIOUS AREA: 0.24 AC. OPEN SPACE & PERVIOUS AREA: 16.67 AC. |



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

FIBER HUT ID #: RDU128
135 LATTA RD.
DURHAM, NC 27712

Fiber Project

Hut Compound: 1,600 sq ft
Access Corridor: 1,380 sq ft
Total: 2,980 sq ft

6

5

4

3

2

1

E

D

C

B

A