

PROJECT DESCRIPTION

THIS PROJECT CONSISTS OF THE FOLLOWING INSTALLATION:

- (1) UNMANNED EQUIPMENT SHELTER ON CONCRETE PAD (31.5'x14')
- (1) GENERATOR ON CONCRETE PAD (6'x3')
- (4) FIBER VAULTS (FLUSH WITH GRADE)
- 8' HIGH CHAIN LINK FENCE SURROUNDING COMPOUND WITH 1' BARBED WIRE (50'L x 32'W)
- UTILITIES TO SITE TO INCLUDE:
 - 400A ELECTRICAL SERVICE
 - NATURAL GAS (GENERATOR)
 - TELEPHONE
 - FIBER
 - GRAVEL SURFACE WITHIN COMPOUND
 - SOIL EROSION SEDIMENT CONTROL AS SHOWN AND AS REQUIRED
 - PROPOSED 3' WIDE TRENCHES

PROPOSED FIBER HUT HUT ATL108

PROJECT INFORMATION

APPLICANT ADDRESS:

BECHTEL INFRASTRUCTURE AND POWER CORPORATION
2400 HERODIAN WAY
SMYRNA, GA 30080

OWNER:

GOOGLE FIBER GEORGIA, LLC
1600 AMPHITHEATRE PARKWAY
MOUNTAIN VIEW, CA 94043

JURISDICTION:

CITY OF SMYRNA

PROPERTY OWNER:

CITY OF SMYRNA

PARCEL:

#1705200670

LATITUDE:

N 33.887200' (NAD 83)

LONGITUDE:

W -84.517438' (NAD 83)

PROJECT CONTACTS

OWNER CONTACT:
PROJECT MANAGER:
ENGINEERING CONTACT:
PERMITTING CONTACT:
CONSTRUCTION CONTACT:
24-HR EMERGENCY CONTACT:

SCOTT SIMCOX
JESS DAWSON
LAURA FLAGG
RICK MCPHAIL
STEVE HARVEY
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770-779-1849
770-779-1850
770-779-1860
770-779-1876
866-954-1572

DRAWING INDEX

REV

H0108-00000-HL-00101
H0108-00000-HL-00102
H0108-00000-HL-00103
H0108-00000-HL-00104
H0108-00000-HL-00105
H0108-00000-HL-00107
H0108-00000-HL-00108

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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:

IBC INTERNATIONAL BUILDING CODE, 2012 EDITION, WITH 2014 & 2015 GEORGIA AMENDMENTS

ELECTRICAL CODE:

NEC NATIONAL ELECTRICAL CODE, 2014 EDITION, WITH NO AMENDMENTS

MECHANICAL CODE:

IMC INTERNATIONAL MECHANICAL CODE, 2012 EDITION WITH 2014 & 2015 GEORGIA AMENDMENTS

NFPA NATIONAL FIRE PROTECTION ASSOCIATION 101 LIFE SAFETY CODE 2012 EDITION

INTERNATIONAL FIRE CODE, 2012 EDITION, WITH 2014 GEORGIA AMENDMENTS

SUBCONTRACTOR'S WORK SHALL COMPLY WITH THE LATEST EDITION OF THE FOLLOWING STANDARDS:

AMERICAN CONCRETE INSTITUTE (ACI) 318, BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE 2011

AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC), MANUAL OF STEEL CONSTRUCTION 14TH EDITION

INSTITUTE FOR ELECTRICAL AND ELECTRONICS ENGINEERS (IEEE) 81, GUIDE FOR MEASURING EARTH RESISTIVITY, GROUND IMPEDANCE, AND EARTH SURFACE POTENTIALS OF A GROUND SYSTEM 2012 EDITION

IEEE 1100 RECOMMENDED PRACTICE FOR POWERING AND GROUNDDING OF ELECTRONIC EQUIPMENT 1999 EDITION

IEEE C2 NATIONAL ELECTRIC SAFETY CODE 2012 EDITION

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.

BUILDING INFORMATION:

DESIGN IS FOR A UNMANNED SHELTER WITH THE FOLLOWING SPECIFICATIONS:

- USAGE: UNMANNED SHELTER
- DIMENSIONS: 12' W x 30' L
- CONSTRUCTION TYPE: S-1
- STORIES: 1
- BASIC WIND SPEED: 150 mph
- FLOOR LOAD: 200 psf
- ROOF LOAD: 100 psf
- FLOOR AREA: 360 sf
- BUILDING HEIGHT: 11'-7"
- SEISMIC DESIGN: CATEGORY D
- WIND EXPOSURE: CATEGORY C



GSWCC LEVEL II CERTIFICATION
#00000734-1

8-14-15

BECHTEL INFRASTRUCTURE AND

POWER CORPORATION



2400 HERODIAN WAY

SMYRNA, GA 30080

770-779-1855

FIBER HUT

ATL108

2687-2799 POWDER SPRINGS ST SE,

SMYRNA, GA 30080

FOR INFORMATION ONLY. DO NOT USE FOR PROCUREMENT, FABRICATION OR CONSTRUCTION.

HUT ATL108

TITLE SHEET

000 08/14/15 ISSUED FOR PERMIT
NO. DATE REVISIONS BY C.H. SURVEY/PPC
SCALE: AS SHOWN DESIGNED BY: NG DRAWN BY: NG
25927-230 DRAWING NUMBER: H0108-00000-HL-00101
REV: 000

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GENERAL NOTES

- FOR THE PURPOSE OF CONSTRUCTION DRAWING, THE FOLLOWING DEFINITIONS SHALL APPLY:
 - CONTRACTOR - BECHTEL
 - OWNER - CONFIDENTIAL
 - SUBCONTRACTOR - GENERAL CONTRACTOR (CONSTRUCTION)
 - OWNER - ORIGINAL EQUIPMENT MANUFACTURER
- ALL MATERIALS FURNISHED AND INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS, AND ORDINANCES. SUBCONTRACTOR SHALL ISSUE ALL APPROPRIATE NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS, AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY REGARDING THE PERFORMANCE OF THE WORK. ALL WORK CARRIED OUT SHALL COMPLY WITH ALL APPLICABLE MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS AND LOCAL JURISDICTIONAL CODES, ORDINANCES AND APPLICABLE REGULATIONS.
- DRAWINGS THAT ARE NOT TO SCALE ARE INTENDED TO SHOW OUTLINE ONLY.
- UNLESS NOTED OTHERWISE, THE WORK SHALL INCLUDE FURNISHING MATERIALS, APPURTENANCES, AND LABOR NECESSARY TO COMPLETE ALL INSTALLATIONS AS INDICATED ON THE DRAWINGS.
- THE SUBCONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY STATED OTHERWISE.
- IF THE SPECIFIED EQUIPMENT CANNOT BE INSTALLED AS SHOWN ON THESE DRAWINGS, THE SUBCONTRACTOR SHALL PROPOSE AN ALTERNATIVE INSTALLATION FOR APPROVAL BY THE CONTRACTOR.
- SUBCONTRACTOR SHALL DETERMINE ACTUAL ROUTING OF CONDUIT, POWER, TELEPHONE AND GROUNDING CABLES AS SHOWN ON THE DRAWINGS.
- THE SUBCONTRACTOR SHALL PROTECT EXISTING IMPROVEMENTS, PAVEMENTS, CURBS, ETC. (AS APPROVED BY CITY OF ATLANTA) FOR ALL DISTURBED GROUND.
- SUBCONTRACTOR SHALL LEGALLY AND PROPERLY DISPOSE OF ALL SCRAP MATERIALS.
- SUBCONTRACTOR SHALL LEAVE PREMISES IN CLEAN CONDITION.
- HUT COLOR SHALL BE DARK BROWN AGGREGATE.

SITE WORK GENERAL NOTES:

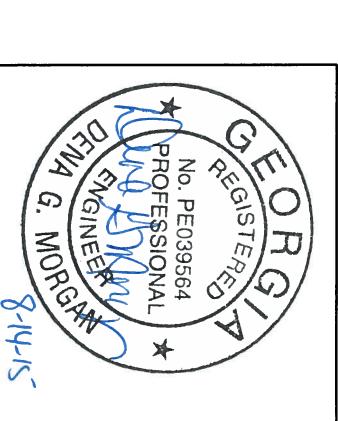
- THE SUBCONTRACTOR SHALL CONTACT UTILITY LOCATING SERVICES (CALL 811) PRIOR TO THE START OF CONSTRUCTION.
- ALL EXISTING ACTIVE SEWER, WATER, GAS, ELECTRIC, AND OTHER UTILITIES WHERE ENCOUNTERED IN THE WORK, SHALL BE PROTECTED AT ALL TIMES, AND WHERE REQUIRED FOR THE PROPER EXECUTION OF THE WORK, SHALL BE RELOCATED AS DIRECTED BY CONTRACTOR. EXTREME CAUTION SHOULD BE USED BY THE SUBCONTRACTOR WHEN EXCAVATING OR DRILLING PIERS AROUND OR NEAR UTILITIES.
- ALL SITE WORK SHALL BE AS INDICATED ON THE DRAWINGS AND PROJECT SPECIFICATIONS.
- IF NECESSARY, RUBBISH, STUMPS, DEBRIS, STICKS, STONES AND OTHER REFUSE SHALL BE REMOVED FROM THE SITE AND DISPOSED OF LEGALLY.
- ALL EXISTING INACTIVE SEWER, WATER, GAS, ELECTRIC AND OTHER UTILITIES, WHICH INTERFERE WITH THE EXECUTION OF THE WORK, SHALL BE REMOVED AND/OR CAPPED, PLUGGED OR OTHERWISE DISCONTINUED AT POINTS WHICH WILL NOT INTERFERE WITH THE EXECUTION OF THE WORK, SUBJECT TO THE APPROVAL OF CONTRACTOR, OWNER AND/OR LOCAL UTILITIES.
- SUBCONTRACTOR SHALL MINIMIZE DISTURBANCE TO EXISTING SITE DURING CONSTRUCTION.
- THE DISTURBED WORK AREA SHALL BE GRADED TO MATCH CURRENT SITE CONDITIONS AND TO CAUSE SURFACE WATER TO FLOW AWAY FROM THE HUT AND GENERATOR.
- THE SUB GRADE SHALL BE COMPAKTED AND BROUGHT TO A SMOOTH UNIFORM GRADE PRIOR TO FINISHED SURFACE APPLICATION.
- FOOTING INSPECTION SHALL BE PERFORMED BY QUALIFIED GEOTECHNICAL ENGINEER OR INSPECTOR UPON EXCAVATION OF FOOTING AND PRIOR TO PLACEMENT OF STRUCTURAL FILL AND/OR CONCRETE.
- THE AREAS OF THE OWNER'S PROPERTY DISTURBED BY THE WORK AND NOT COVERED BY THE HUT, EQUIPMENT OR DRIVEWAY, SHALL BE GRADED TO A UNIFORM SLOPE, AND STABILIZED TO PREVENT EROSION AS SPECIFIED IN THE PROJECT SPECIFICATIONS.
- SUBCONTRACTOR SHALL MINIMIZE DISTURBANCE TO EXISTING SITE DURING CONSTRUCTION. EROSION CONTROL MEASURES, IF REQUIRED DURING CONSTRUCTION, SHALL BE IN CONFORMANCE WITH THE LOCAL GUIDELINES FOR EROSION AND SEDIMENT CONTROL.
- CONTRACTOR TO DESIGNATE CONCRETE WASHDOWN AREA AS PER DETAIL.

ELECTRICAL INSTALLATION NOTES

- ALL ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS, NEC AND ALL APPLICABLE LOCAL CODES.
- CONDUIT ROUTINGS ARE SCHEMATIC. SUBCONTRACTOR SHALL INSTALL CONDUITS SO THAT ACCES TO EQUIPMENT IS NOT BLOCKED.
- WIRING, RACEWAY AND SUPPORT METHODS AND MATERIALS SHALL COMPLY WITH THE REQUIREMENTS OF THE NEC.
- ALL CIRCUITS SHALL BE SEGREGATED AND MAINTAIN MINIMUM CABLE SEPARATION AS REQUIRED BY THE NEC.
- ALL TIE WRAPS SHALL BE CUT FLUSH WITH APPROVED CUTTING TOOL TO REMOVE SHARP EDGES.
- POWER, CONTROL, AND EQUIPMENT GROUND WIRING IN TUBING OR CONDUIT SHALL BE SINGLE CONDUCTOR (#14 AWG OR LARGER), 600 V, OIL RESISTANT THAN OR THWN-2, CLASS B STRANDED COPPER CABLE RATED FOR 90 °C (WET AND DRY) OPERATION; LISTED OR LABELED FOR THE LOCATION AND RACEWAY SYSTEM USED, UNLESS OTHERWISE SPECIFIED.
- POWER AND CONTROL WIRING, NOT IN TUBING OR CONDUIT, SHALL BE MULTI-CONDUCTOR, TYPE TC CABLE (#14 AWG OR LARGER), 600 V, OIL RESISTANT THAN OR THWN-2, CLASS B STRANDED COPPER CABLE RATED FOR 90 °C (WET AND DRY) OPERATION; WITH OUTER JACKET; LISTED OR LABELED FOR THE LOCATION USED, UNLESS OTHERWISE SPECIFIED.
- ALL POWER AND POWER GROUNDING CONNECTIONS SHALL BE CRIMP-STYLE, COMPRESSION WIRE LUGS AND WIRE NUTS BY THOMAS AND BETTS (OR EQUAL). LUGS AND WIRE NUTS SHALL BE RATED FOR OPERATION AT NO LESS THAN 75°C (90°C IF AVAILABLE).
- RACEWAY AND CABLE TRAY SHALL BE LISTED OR LABELED FOR ELECTRICAL USE IN ACCORDANCE WITH NEMA, UL, ANSI/IEEE, AND NEC.
- ELECTRICAL METALLIC TUBING (EMT) OR RIGID NONMETALLIC CONDUIT (I.E., RIGID PVC SCHEDULE 40 OR RIGID PVC SCHEDULE 80) FOR LOCATIONS SUBJECT TO PHYSICAL DAMAGE SHALL BE USED FOR EXPOSED INDOOR LOCATIONS.
- ELECTRICAL METALLIC TUBING (EMT), ELECTRICAL NONMETALLIC TUBING (ENT), OR RIGID NONMETALLIC CONDUIT (RIGID PVC, SCHEDULE 40) SHALL BE USED FOR CONCEALED INDOOR LOCATIONS.
- GALVANIZED STEEL INTERMEDIATE METALLIC CONDUIT (IMC) SHALL BE USED FOR OUTDOOR LOCATIONS ABOVE GRADE. RIGID NONMETALLIC CONDUIT (I.E., RIGID PVC SCHEDULE 40 OR RIGID PVC SCHEDULE 80) SHALL BE USED UNDERGROUND; DIRECT BURIED, IN AREAS OF OCCASIONAL LIGHT VEHICLE TRAFFIC OR ENCASED IN REINFORCED CONCRETE IN AREAS OF HEAVY VEHICLE TRAFFIC.
- LIQUID-TIGHT FLEXIBLE METALLIC CONDUIT (LIQUID-TITE FLEX) SHALL BE USED INDOORS AND OUTDOORS, WHERE VIBRATION OCCURS OR FLEXIBILITY IS NEEDED.
- CONDUT AND TUBING FITTINGS SHALL BE THREADED OR COMPRESSION-TYPE AND APPROVED FOR THE LOCATION USED.
- SETSCREW FITTINGS ARE NOT ACCEPTABLE.
- EQUIPMENT CABINETS, TERMINAL BOXES, JUNCTION BOXES, AND PULL BOXES SHALL BE GALVANIZED OR EPOXY-COATED SHEET STEEL, SHALL MEET OR EXCEED UL 50, AND RATED NEMA 1 (OR BETTER) INDOORS, OR NEMA 3R (OR BETTER) OUTDOORS.
- METAL RECEPTACLE, SWITCH, AND DEVICE BOXES SHALL BE GALVANIZED, EPOXY-COATED, OR NON-CORRODING; SHALL MEET OR EXCEED UL 514A AND NEMA 0-1; AND RATED NEMA 1 (OR BETTER) INDOORS, OR WEATHER PROTECTED (WP OR BETTER) OUTDOORS.
- NONMETALLIC RECEPTACLE, SWITCH, AND DEVICE BOXES SHALL MEET OR EXCEED NEMA 0-2; AND RATED NEMA 1 (OR BETTER) INDOORS, OR WEATHER PROTECTED (WP OR BETTER) OUTDOORS.
- THE SUBCONTRACTOR SHALL PROVIDE NECESSARY TAGGING ON THE BREAKERS, CABLES AND DISTRIBUTION PANELS IN ACCORDANCE WITH THE APPLICABLE CODES AND STANDARDS TO SAFEGUARD AGAINST LIFE AND PROPERTY.

GROUNDING NOTES

- ALL GROUND ELECTRODE SYSTEMS (INCLUDING TELECOMMUNICATION, RADIO, LIGHTNING PROTECTION, AND AC POWER GESS) SHALL BE BONDED TOGETHER, AT OR BELOW GRADE, BY TWO OR MORE COPPER BONDING CONDUCTORS IN ACCORDANCE WITH THE NEC.
- THE SUBCONTRACTOR SHALL PERFORM IEEE FALL-OF-POTENTIAL RESISTANCE TO EARTH TESTING (PER IEEE 1100 AND 81) FOR NEW GROUND ELECTRODE SYSTEMS. THE SUBCONTRACTOR SHALL FURNISH AND INSTALL SUPPLEMENTAL GROUND ELECTRODES AS NEEDED TO ACHIEVE A TEST RESULT OF 25 OHMS OR LESS.
- EXOTHERMIC WELDS SHALL BE USED FOR ALL GROUNDING CONNECTIONS BELOW GRADE.
- APPROVED ANTIODANT COATINGS (I.E., CONDUCTIVE GEL OR PASTE) SHALL BE USED ON ALL COMPRESSION AND BOLTED GROUND CONNECTIONS.
- ALUMINUM CONDUCTOR OR COPPER CLAD STEEL CONDUCTOR SHALL NOT BE USED FOR GROUNDING CONNECTIONS.
- MISCELLANEOUS ELECTRICAL AND NON-ELECTRICAL METAL BOXES, FRAMES AND SUPPORTS SHALL BE BONDED TO THE GROUND RING, IN ACCORDANCE WITH THE NEC.
- METAL CONDUIT AND TRAY SHALL BE GROUNDED AND MADE ELECTRICALLY CONTINUOUS WITH LISTED BONDING FITTINGS OR BY BONDING ACROSS THE DISCONTINUITY WITH 6 AWG COPPER WIRE UL APPROVED GROUNDING TYPE CONDUIT CLAMPS.
- GROUND CONDUCTORS USED IN THE FACILITY GROUND AND LIGHTNING PROTECTION SYSTEMS SHALL NOT BE ROUTED THROUGH METALLIC OBJECTS THAT FORM A RING AROUND THE CONDUCTOR, SUCH AS METALLIC CONDUITS, METAL SUPPORT CLIPS OR SLEEVES THROUGH WALLS OR FLOORS. WHEN IT IS REQUIRED TO BE HOUSED IN CONDUIT TO MEET CODE REQUIREMENTS OR LOCAL CONDITIONS, NON-METALLIC MATERIAL SUCH AS PVC, PLASTIC CONDUIT SHALL BE USED. WHERE USE OF METAL CONDUIT IS UNAVOIDABLE (E.G., NON-METALLIC CONDUIT PROHIBITED BY LOCAL CODE) THE GROUND CONDUCTOR SHALL BE BONDED TO EACH END OF THE METAL CONDUIT.
- CONTRACTOR TO DESIGNATE CONCRETE WASHDOWN AREA AS PER DETAIL.

**HUT ATL108**

GENERAL NOTES

DRAWING NUMBER

REV.

000 08/14/15 ISSUED FOR PERMIT

NO.

DATE

REVISIONS

BY

CNC SUPPLY/PC

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NO.

DESIGNED BY:

NG

DRAWN BY:

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FULL SCALE 1/8"=1'-0"
8' 0" 16 FT
HALF SCALE 1/16"=1'-0"



BECHTEL INFRASTRUCTURE AND
POWER CORPORATION

2400 HERODIAN WAY
SNYRNA, GA 30080
770-779-1855

FIBER HUT

HUT ATL108

HUT ATL108

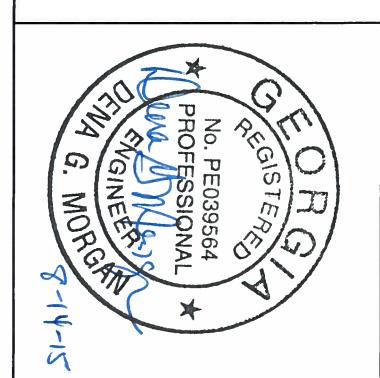
GRADING PLAN

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GRADING PLAN
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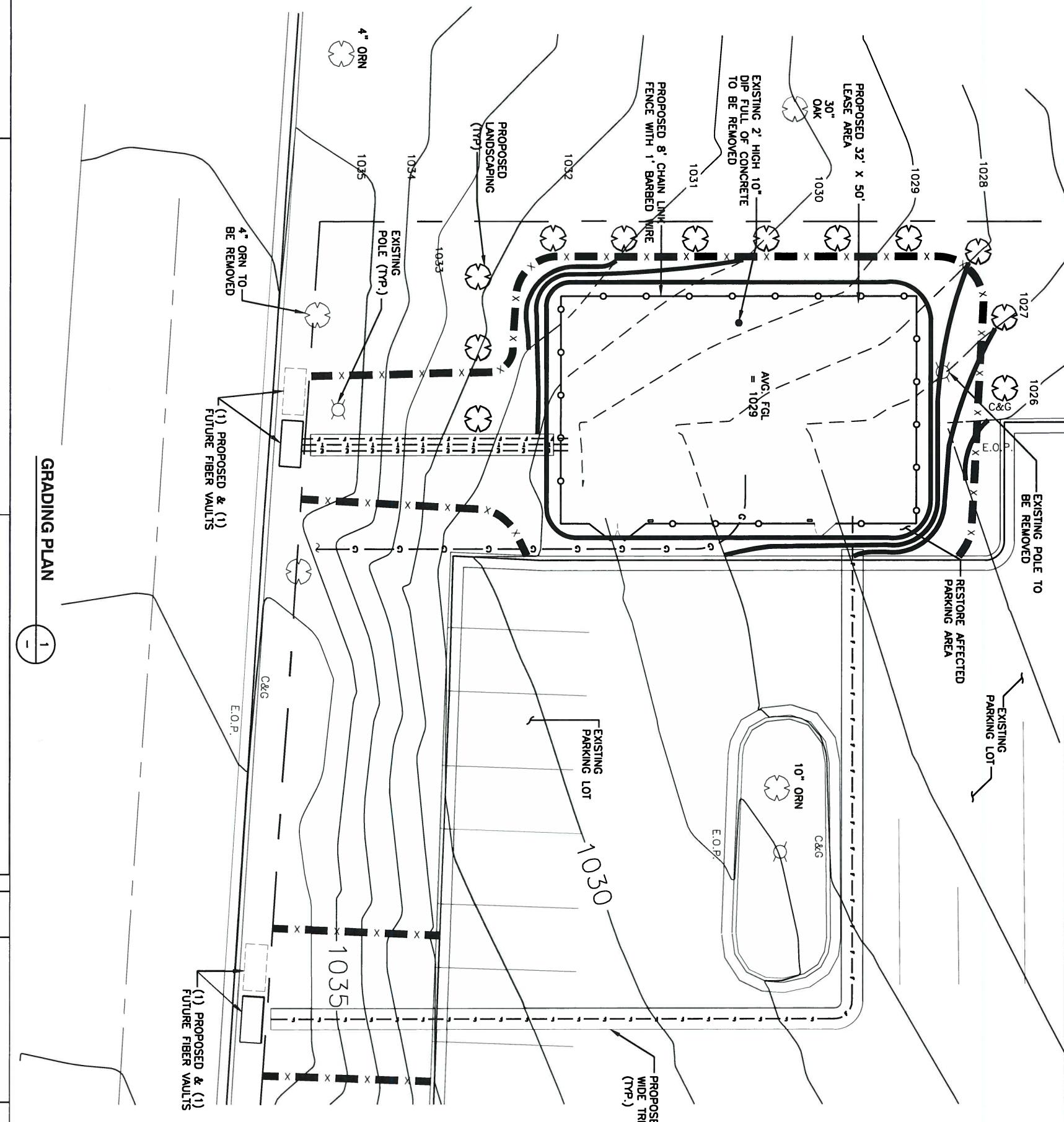


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LEGEND	
EXISTING CONTOUR	—
RETAINED CONTOUR	—
PROPOSED CONTOUR	—
FIBER	— F — F — F —
ELECTRIC	— E — E — E —
TELCO	— T — T — T —
NATURAL GAS	— G — G — G —
PROPOSED SILT FENCE	— X — X — X —

