

<div>PROJECT DESCRIPTION</div> <div>THIS PROJECT CONSISTS OF THE FOLLOWING INSTALLATION:<ul style="list-style-type: none"><li>• (1) UNMANNED EQUIPMENT SHELTER ON CONCRETE PAD (31.5'x14')</li><li>• (1) GENERATOR ON CONCRETE PAD (6'x13')</li><li>• (4) FIBER VAULTS (FLUSH WITH GRADE)</li><li>• 8' HIGH CHAIN LINK FENCE SURROUNDING COMPOUND WITH 1' BARBED WIRE (50'L x 32'W)</li><li>• UTILITIES TO SITE TO INCLUDE:<ul style="list-style-type: none"><li>• 400A ELECTRICAL SERVICE</li><li>• NATURAL GAS (GENERATOR)</li><li>• TELEPHONE</li><li>• FIBER</li></ul></li><li>• GRAVEL SURFACE WITHIN COMPOUND</li><li>• SOIL EROSION SEDIMENT CONTROL AS SHOWN AND AS REQUIRED</li><li>• PROPOSED SILT FENCE</li><li>• PROPOSED 3' WIDE TRENCHES</li></ul></div>		<div>PROPOSED FIBER HUT HUT ATL108</div> <div>FIBER HUT FACILITY DEPLOYMENT PROJECT</div>	
<div>PROJECT INFORMATION</div> <div>APPLICANT ADDRESS:<div>BECHTEL INFRASTRUCTURE AND POWER CORPORATION2400 HERODIAN WAYSMYRNA, GA 30080</div></div> <div>OWNER:<div>GOOGLE FIBER GEORGIA, LLC1600 AMPHITHEATRE PARKWAYMOUNTAIN VIEW, CA 94043</div></div> <div>JURISDICTION:<div>CITY OF SMYRNA</div></div> <div>PROPERTY OWNER:<div>CITY OF SMYRNA</div></div> <div>PARCEL:<div>#1705200670</div></div> <div>LATITUDE:<div>N 33.887200° (NAD 83)</div></div> <div>LONGITUDE:<div>W -84.517438° (NAD 83)</div></div>		<div>VICINITY MAP</div>	
<div>PROJECT CONTACTS</div> <div>OWNER CONTACT:<div>SCOTT SIMCOX678-888-1969</div></div> <div>PROJECT MANAGER:<div>JESS DAWSON770-779-1849</div></div> <div>ENGINEERING CONTACT:<div>LAURA FLAGG770-779-1850</div></div> <div>PERMITTING CONTACT:<div>RICK MCPHAL770-779-1860</div></div> <div>CONSTRUCTION CONTACT:<div>STEVE HARVEY770-779-1876</div></div> <div>24-HR EMERGENCY CONTACT<div>888-954-1572</div></div>		<div>APPLICABLE BUILDING CODES AND STANDARDS</div> <div>SUBCONTRACTOR'S WORK SHALL COMPLY WITH ALL APPLICABLE NATIONAL, STATE, AND LOCAL CODES AS ADOPTED BY THE LOCAL AUTHORITY HAVING JURISDICTION (AAJ) FOR THE LOCATION. THE EDITION OF THE AAJ ADOPTED CODES AND STANDARDS IN EFFECT ON THE DATE OF CONTRACT AWARD SHALL GOVERN THE DESIGN.</div> <div>BUILDING CODE:<div>IBC INTERNATIONAL BUILDING CODE, 2012 EDITION, WITH 2014 &amp; 2015 GEORGIA AMENDMENTS</div></div> <div>ELECTRICAL CODE:<div>NEC NATIONAL ELECTRICAL CODE, 2014 EDITION, WITH NO AMENDMENTS</div></div> <div>MECHANICAL CODE:<div>IMC INTERNATIONAL MECHANICAL CODE, 2012 EDITION WITH 2014 &amp; 2015 GEORGIA AMENDMENTS</div></div> <div>NFPA NATIONAL FIRE PROTECTION ASSOCIATION 101 LIFE SAFETY CODE 2012 EDITION</div> <div>INTERNATIONAL FIRE CODE, 2012 EDITION, WITH 2014 GEORGIA AMENDMENTS</div> <div>SUBCONTRACTOR'S WORK SHALL COMPLY WITH THE LATEST EDITION OF THE FOLLOWING STANDARDS:<div>AMERICAN CONCRETE INSTITUTE (ACI) 318, BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE 2011</div><div>AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC), MANUAL OF STEEL CONSTRUCTION 14TH EDITION</div><div>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</div><div>IEEE 1100 RECOMMENDED PRACTICE FOR POWERING AND GROUNDING OF ELECTRONIC EQUIPMENT 1999 EDITION</div><div>IEEE C2 NATIONAL ELECTRIC SAFETY CODE 2012 EDITION</div></div>	

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

REGISTERED PROFESSIONAL ENGINEER  
DENIA G. MORGAN  
No. PE039564  
8-14-15

GSWCC LEVEL II CERTIFICATION  
#0000073441

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21 M 0' SRT

## GENERAL NOTES

1. FOR THE PURPOSE OF CONSTRUCTION DRAWING, THE FOLLOWING DEFINITIONS SHALL APPLY:  
CONTRACTOR - BECHTEL  
SUBCONTRACTOR - GENERAL CONTRACTOR (CONSTRUCTION)  
OWNER - CONFIDENTIAL  
OEM - ORIGINAL EQUIPMENT MANUFACTURER
2. 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.
3. DRAWINGS THAT ARE NOT TO SCALE ARE INTENDED TO SHOW OUTLINE ONLY.
4. UNLESS NOTED OTHERWISE, THE WORK SHALL INCLUDE FURNISHING MATERIALS, APPURTENANCES, AND LABOR NECESSARY TO COMPLETE ALL INSTALLATIONS AS INDICATED ON THE DRAWINGS.
5. THE SUBCONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY STATED OTHERWISE.
6. IF THE SPECIFIED EQUIPMENT CANNOT BE INSTALLED AS SHOWN ON THESE DRAWINGS, THE SUBCONTRACTOR SHALL PROPOSE AN ALTERNATIVE INSTALLATION FOR APPROVAL BY THE CONTRACTOR.
7. SUBCONTRACTOR SHALL DETERMINE ACTUAL ROUTING OF CONDUIT, POWER, TELEPHONE AND GROUNDING CABLES AS SHOWN ON THE DRAWINGS.
8. THE SUBCONTRACTOR SHALL PROTECT EXISTING IMPROVEMENTS, PAVEMENTS, CURBS, ETC.
9. SUBCONTRACTOR SHALL PROVIDE TEMPORARY VEGETATIVE COVER WITH FAST GROWING SEEDLINGS (AS APPROVED BY CITY OF ATLANTA) FOR ALL DISTURBED GROUND.
10. SUBCONTRACTOR SHALL LEGALLY AND PROPERLY DISPOSE OF ALL SCRAP MATERIALS.
11. SUBCONTRACTOR SHALL LEAVE PREMISES IN CLEAN CONDITION.
12. HUT COLOR SHALL BE DARK BROWN AGGREGATE

**SITE WORK GENERAL NOTES:**

1. THE SUBCONTRACTOR SHALL CONTACT UTILITY LOCATING SERVICES (CALL 811) PRIOR TO THE START OF CONSTRUCTION.
2. 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.
3. ALL SITE WORK SHALL BE AS INDICATED ON THE DRAWINGS AND PROJECT SPECIFICATIONS.
4. IF NECESSARY, RUBBISH, STUMPS, DEBRIS, STOKS, STONES AND OTHER REFUSE SHALL BE REMOVED FROM THE SITE AND DISPOSED OF LEGALLY.
5. 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.
6. SUBCONTRACTOR SHALL MINIMIZE DISTURBANCE TO EXISTING SITE DURING CONSTRUCTION.
7. 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.
8. THE SUB GRADE SHALL BE COMPACTED AND BROUGHT TO A SMOOTH UNIFORM GRADE PRIOR TO FINISHED SURFACE APPLICATION.
9. FOOTING INSPECTION SHALL BE PERFORMED BY QUALIFIED GEOTECHNICAL ENGINEER OR INSPECTOR UPON EXCAVATION OF FOOTING AND PRIOR TO PLACEMENT OF STRUCTURE FILL, AND/OR CONCRETE.
10. 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.
11. 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.
12. CONTRACTOR TO DESIGNATE CONCRETE WASHDOWN AREA AS PER DETAIL.

## ELECTRICAL INSTALLATION NOTES

1. ALL ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS, NEC AND ALL APPLICABLE LOCAL CODES.
2. CONDUIT ROUTINGS ARE SCHEMATIC. SUBCONTRACTOR SHALL INSTALL CONDUITS SO THAT ACCESS TO EQUIPMENT IS NOT BLOCKED.
3. WIRING, RACEWAY AND SUPPORT METHODS AND MATERIALS SHALL COMPLY WITH THE REQUIREMENTS OF THE NEC.
4. ALL CIRCUITS SHALL BE SEGREGATED AND MAINTAIN MINIMUM CABLE SEPARATION AS REQUIRED BY THE NEC.
5. ALL THE WRAPS SHALL BE CUT FLUSH WITH APPROVED CUTTING TOOL, TO REMOVE SHARP EDGES.
6. POWER, CONTROL, AND EQUIPMENT GROUND WIRING IN TUNING CONDUIT SHALL BE SINGLE CONDUCTOR (#14 AWG OR LARGER), 600 V, OIL RESISTANT THHN 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.
7. POWER AND CONTROL WIRING, NOT IN TUNING OR CONDUIT, SHALL BE MULTI-CONDUCTOR, TYPE TC CABLE (#14 AWG OR LARGER), 600 V, OIL RESISTANT THHN 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.
8. ALL POWER AND POWER GROUNDING CONNECTIONS SHALL BE CRIMP-STYLE, COMPRESSION WIRE LUGS AND WIRENUTS 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).
9. RACEWAY AND CABLE TRAY SHALL BE LISTED OR LABELED FOR ELECTRICAL USE IN ACCORDANCE WITH NEMA, UL, ANSII/IEEE, AND NEC.
10. 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.
11. ELECTRICAL METALLIC TUBING (EMT), ELECTRICAL NONMETALLIC TUBING (ENT), OR RIGID NONMETALLIC CONDUIT (RIGID PVC, SCHEDULE 40) SHALL BE USED FOR CONCEALED INDOOR LOCATIONS.
12. GALVANIZED STEEL, INTERMEDIATE METALLIC CONDUIT (IMC) SHALL BE USED FOR OUTDOOR LOCATIONS ABOVE GRADE.
13. 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.
14. LIQUID-TIGHT FLEXIBLE METALLIC CONDUIT (LIQUID-TITE FLEX) SHALL BE USED INDOORS AND OUTDOORS, WHERE VIBRATION OCCURS OR FLEXIBILITY IS NEEDED.
15. CONDUIT AND TUBING FITTINGS SHALL BE THREADED OR COMPRESSION-TYPE AND APPROVED FOR THE LOCATION USED. SETSCREW FITTINGS ARE NOT ACCEPTABLE.
16. CABINETS, BOXES, AND WIREWAYS SHALL BE LISTED OR LABELED FOR ELECTRICAL USE IN ACCORDANCE WITH NEMA, UL, ANSII/IEEE, AND NEC.
17. 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.
18. METAL RECEPTACLE, SWITCH, AND DEVICE BOXES SHALL BE GALVANIZED, EPOXY-COATED, OR NON-CORRODING, SHALL MEET OR EXCEED UL 514A AND NEMA OS 1; AND RATED NEMA 1 (OR BETTER) INDOORS, OR WEATHER PROTECTED (WP OR BETTER) OUTDOORS.
19. NONMETALLIC RECEPTACLE, SWITCH, AND DEVICE BOXES SHALL MEET OR EXCEED NEMA OS 2; AND RATED NEMA 1 (OR BETTER) INDOORS, OR WEATHER PROTECTED (WP OR BETTER) OUTDOORS.
20. 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

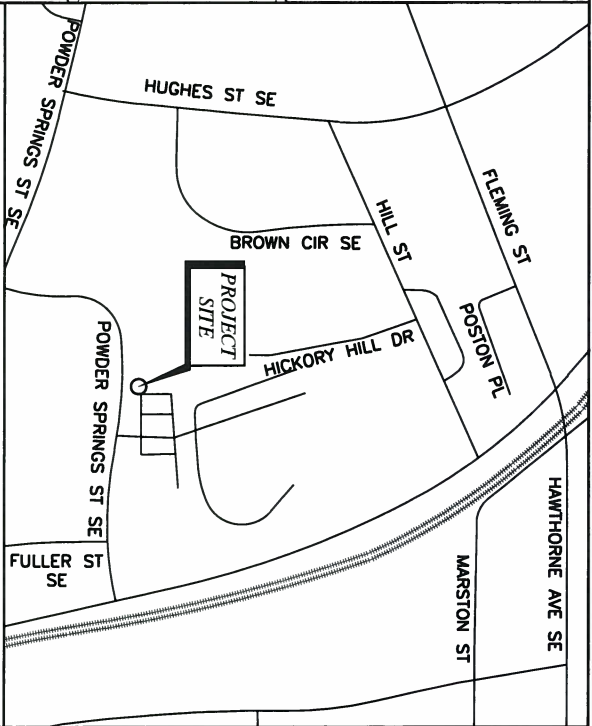
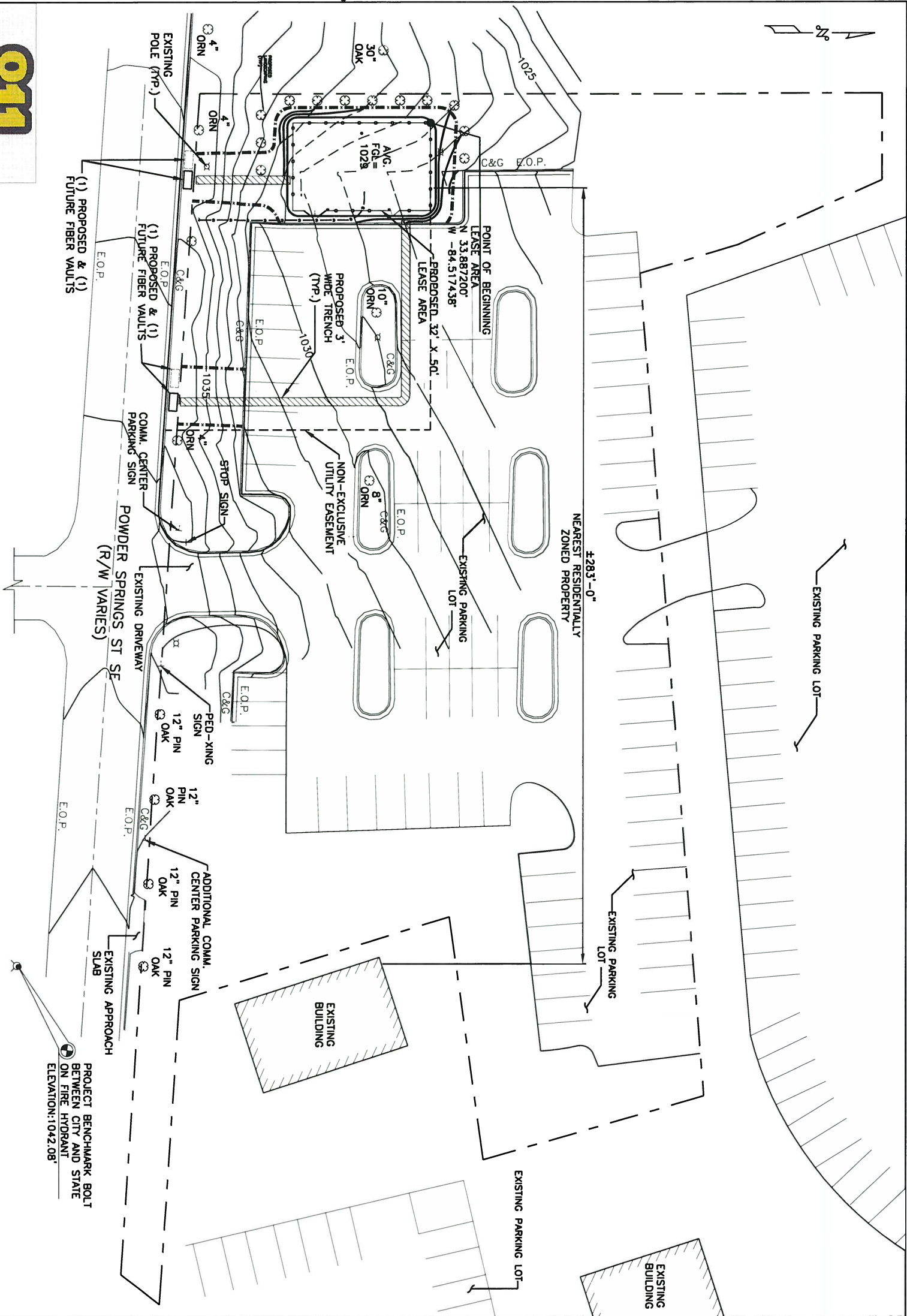
1. ALL GROUND ELECTRODE SYSTEMS (INCLUDING TELECOMMUNICATION, RADIO, LIGHTNING PROTECTION, AND AC POWER GESS) SHALL BE BONDED TOGETHER, AT OR BELOW GRADE, BY TWO OR MORE COPPER BONDING CONDUCTORS IN ACCORDANCE WITH THE NEC.
2. THE SUBCONTRACTOR SHALL PERFORM IEEE FALL-OF-POTENTIAL RESISTANCE TO EARTH 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.
3. EXOTHERMIC WELDS SHALL BE USED FOR ALL GROUNDING CONNECTIONS BELOW GRADE.
4. APPROVED ANTIOXIDANT COATINGS (I.E., CONDUCTIVE GEL OR PASTE) SHALL BE USED ON ALL COMPRESSION AND BOLTED GROUND CONNECTIONS.
5. ALUMINUM CONDUCTOR OR COPPER CLAD STEEL CONDUCTOR SHALL NOT BE USED FOR GROUNDING CONNECTIONS.
6. MISCELLANEOUS ELECTRICAL AND NON-ELECTRICAL METAL BOXES, FRAMES AND SUPPORTS SHALL BE BONDED TO THE GROUND RING, IN ACCORDANCE WITH THE NEC.
7. 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.
8. 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.



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[illegible]**22 x 34 D" SIZE**





**LEGEND**

EXISTING CONTOUR	----
RETAINED CONTOUR	_____
PROPOSED CONTOUR	=====
NATURAL GAS SILT FENCE	6 6 x x x x x x

**NOTE--**

- CITY ARBORIST WILL NEED TO BE CONSULTED PRIOR TO TREE REMOVAL.
- ANY EXISTING TREES REQUIRE REMOVAL SHALL BE REPLACED WITH SIMILAR CALIPER (DIAMETER) TREES AS REQUIRED LOCATION TO BE DETERMINED IN COORDINATION WITH CITY.



**Know what's below.  
Call before you dig.**

**811**

**FULL SCALE** 1" = 20'-0"

20 10 0 20 40 FT

**HALF SCALE** 1" = 40'-0"

## SITE LAYOUT

**BECHTEL INFRASTRUCTURE AND**

**POWER CORPORATION**



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

## FIBER HILT

ATL108

SMYRNA, GA 30080

2687-2799 POWDER SPRINGS ST SE,  
SMYRNA, GA 30080

# HUT ATL108

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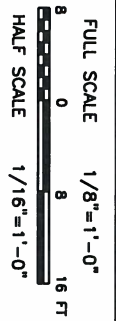
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## SITE LAYOUT

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BECHTEL INFRASTRUCTURE AND  
POWER CORPORATION

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

FIBER HUT

ATL108  
2667-2799 POWDER SPRINGS ST SE,  
SMYRNA, GA 30080

HUT ATL108

GRADING PLAN



HUT ATL108

GRADING PLAN

NO.	DATE	ISSUED FOR PERMIT	DESIGNED BY	CHECKED BY	DATE
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SCALE: AS SHOWN

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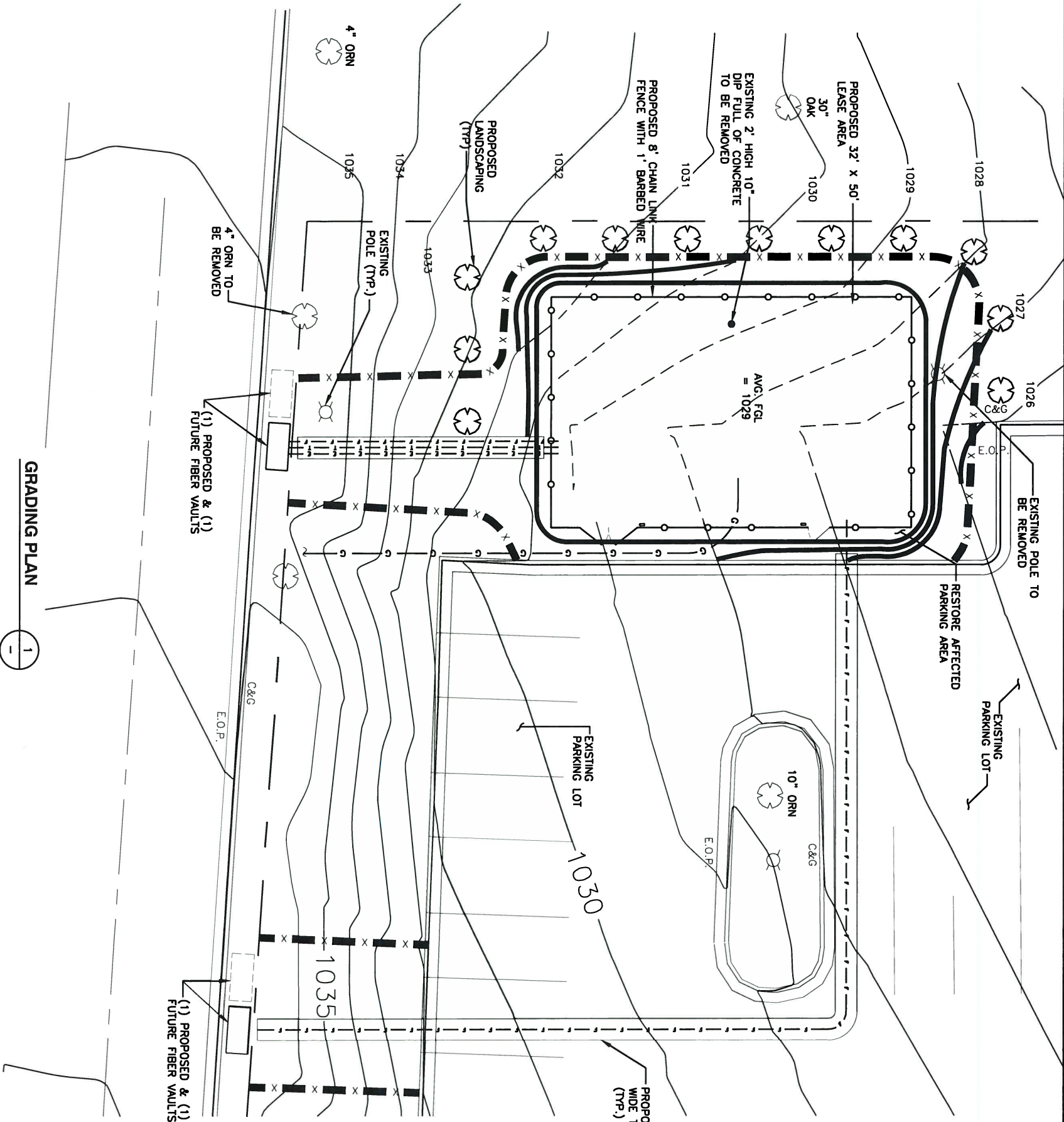
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21 x 11" S&E



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





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## COMPOUND LAYOUT

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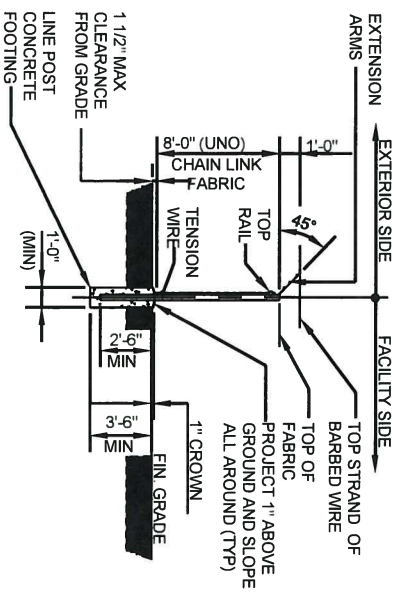
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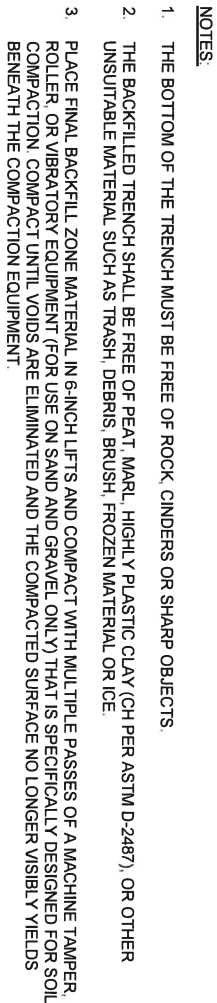
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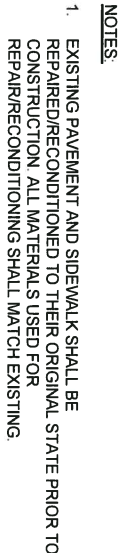




**(INSTALL FENCING PER ASTM F-567. SWING GATES PER ASTM F-900)**



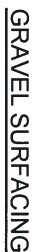
F FIBER OPTIC CABLE  
E ELECTRICAL FEEDER(S)  
T TELCO



(AS REQUIRED)



- NOTES:**



**POWER CORPORATION**

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

SMYRNA, GA 30080

NO.	DATE	REVISIONS	JOT	SVR	DM	DM
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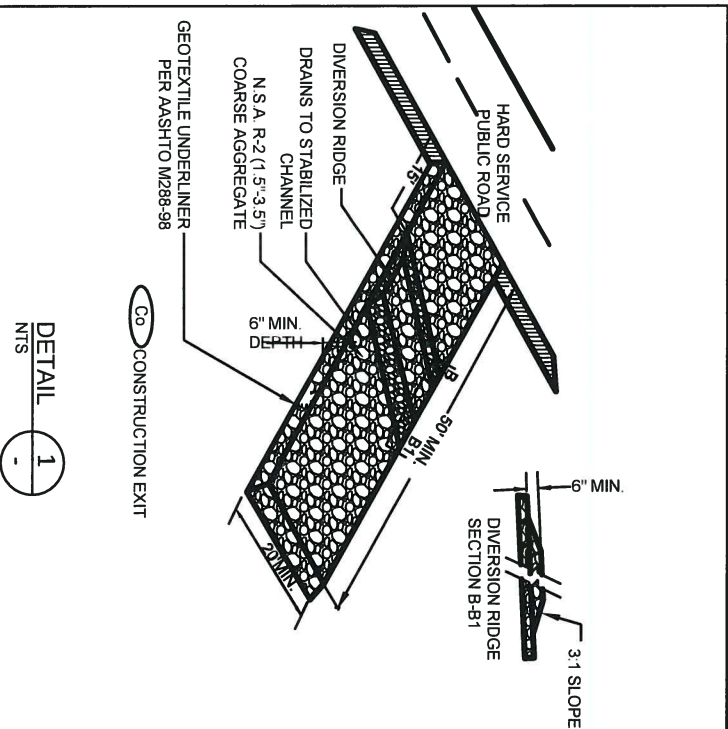
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DESIGNED BY: NG

DRAWN BY: NG

## DETAILS

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CONSTRUCTION EXIT  
A STONE STABILIZED PAD SHALL BE LOCATED AT ANY POINT WHERE TRAFFIC  
WILL BE LEAVING A CONSTRUCTION SITE TO A PUBLIC RIGHT-OF-WAY,  
STREET, ALLEY, SIDEWALK, PARKING AREA, OR ANY OTHER AREA WHERE  
THERE IS A TRANSITION FROM BARE SOIL TO A PAVED AREA.

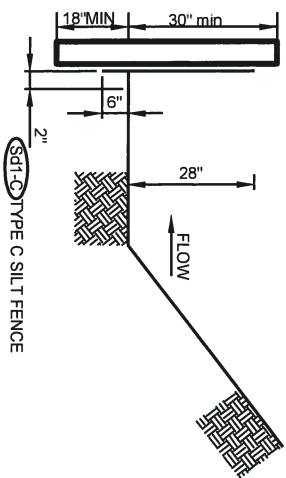
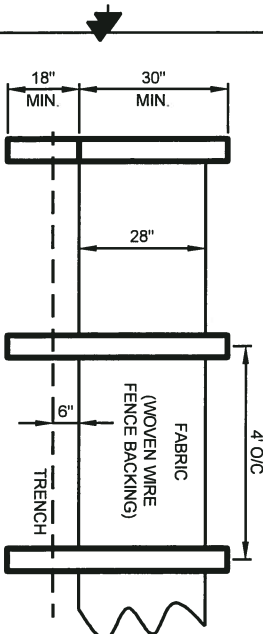
**AGGREGATE SIZE**  
STONE WILL BE IN ACCORDANCE WITH NATIONAL STONE ASSOCIATION R-2  
(1.5 TO 3.5 INCH STONE).

**PAD THICKNESS**  
THE GRAVEL PAD SHALL HAVE A MINIMUM THICKNESS OF 6 INCHES

**PAD WIDTH** THE WIDTH SHOULD EQUAL FULL WIDTH OF ALL POINTS OF AT A MINIMUM. THE WIDTH SHOULD EQUAL FULL WIDTH OF ALL POINTS OF VEHICULAR EGRESS, BUT NOT LESS THAN 20 FEET WIDE.

**DIVERSION RIDGE**  
ON SITES WHERE THE GRADE TOWARD THE PAVED AREA IS GREATER THAN 2% A DIVERSION RIDGE 6 TO 8 INCHES HIGH WITH 3:1 SIDE SLOPES SHALL BE CONSTRUCTED ACROSS THE FOUNDATION APPROXIMATELY 15 FEET ABOVE THE ROAD.

**MAINTENANCE**  
THE EXIT SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOW OF OIL INTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH 1.5-3.5 MCH STONE. AS CONDITIONS DEMAND, AND REPAIR AND/OR CLEANOUT OF ANY STRUCTURES TO TRAP SEDIMENT, ALL MATERIALS SPILLED, DROPPED, WASHED, OR TRACKED FROM VEHICLES OR SITE ONTO ROADWAYS OR INTO STORM DRAINS MUST BE REMOVED IMMEDIATELY.



**SILT FENCE**  
THE MANUFACTURER SHALL HAVE EITHER AN APPROVED COLOR MARK YARN IN THE FABRIC OR LABEL THE FABRICATED SILT FENCE WITH BOTH THE MANUFACTURER AND FABRIC NAME EVERY 100 FEET.

THE TEMPORARY FENCE SHALL BE INSTALLED ACCORDING TO THIS SPECIFICATION, AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER, FOR INSTALLATION OF THE FABRIC. SEE DETAIL. POST INSTALLATION SHALL START AT THE CENTER OF THE LOW POINT (IF APPLICABLE) WITH THE REMAINING POSTS SPACED 4 FEET APART FOR TYPE C SILT FENCE. ONLY STEEL POST SHALL BE USED WITH TYPE C SILT FENCE. POSTS SHALL BE 4 IN LENGTH, 1.3 LBS/FT. ALONG STREAM BUFFERS AND OTHER SENSITIVE AREAS. TWO ROWS OF TYPE C SILT FENCE OR ONE ROW OF TYPE C SILT FENCE BACKED BY HAYBALES SHALL BE USED.

## MAINTENANCE FOR ALL Sd2 APPLICATIONS

ALL TRAPS SHALL BE INSPECTED DAILY AND AFTER EACH RAIN AND REPAIRS MADE AS NEEDED. THE SEDIMENT SHALL BE REMOVED WHEN THE SEDIMENT HAS ACCUMULATED TO ONE-HALF THE HEIGHT OF THE TRAP. SEDIMENT SHALL BE REMOVED FROM CURB INLET PROTECTION IMMEDIATELY FOR EXCAVATED INLET SEDIMENT TRAPS. SEDIMENT SHALL BE REMOVED WHEN ONE-HALF OF THE SEDIMENT STORAGE CAPACITY HAS BEEN LOST. SEDIMENT ACCUMULATION, SOD INLET PROTECTION SHALL BE MAINTAINED AS SPECIFIED IN DS-4. DISTURBED AREA STABILIZATION (WITH SODDING).

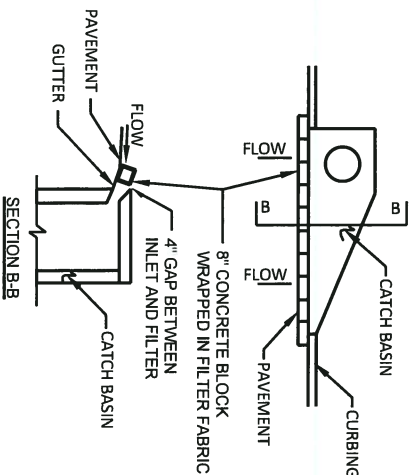
SEDIMENT SHALL NOT BE WASHED INTO THE INLET. IT SHALL BE REMOVED FROM THE SEDIMENT TRAP AND DISPOSED OF AND STABILIZED SO THAT IT WILL NOT ENTER THE INLET, AGAIN.

WHEN THE CONTRIBUTING DRAINAGE AREA HAS BEEN PERMANENTLY STABILIZED, ALL MATERIALS AND ANY SEDIMENT SHALL BE REMOVED AND EITHER SALVAGED OR DISPOSED OF PROPERLY. THE DISTURBED AREA SHALL BE BROUGHT TO PROPER GRADE, THEN SMOOTHED AND COMPACTED. ALL DISTURBED AREAS AROUND THE INLET SHALL BE APPROPRIATELY STABILIZED.

## DESIGN CRITERIA FOR ALL Sd2 APPLICATIONS

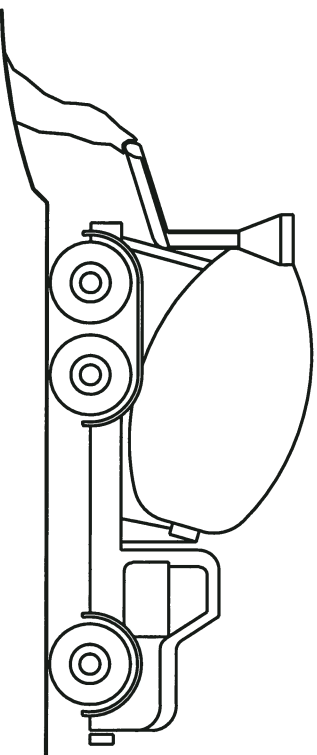
MANY SEDIMENT FILTERING DEVICES CAN BE DESIGNED TO SERVE AS TEMPORARY SEDIMENT TRAPS. SEDIMENT TRAPS MUST BE SELF-DRAINING UNLESS THEY ARE OTHERWISE PROTECTED IN AN APPROVED FASHION THAT WILL NOT PRESENT A SAFETY HAZARD. THE AREA DRAINING TO THE INLET SEDIMENT TRAP SHALL BE NO GREATER THAN ONE ACRE.

IF RUNOFF MAY BYPASS THE PROTECTED INLET, A TEMPORARY DIKE SHOULD BE CONSTRUCTED ON THE DOWN SLOPE SIDE OF THE STRUCTURE. ALSO, A STONE FILTER RING MAY BE USED ON THE UP SLOPE SIDE OF THE INLET TO SLOW RUNOFF AND FILTER LARGER SOIL PARTICLES. REFER TO FR-STONE FILTER RING.



CURB INLET PROTECTION  
ONCE PAVEMENT HAS BEEN INSTALLED, A CURB INLET FILTER SHALL BE INSTALLED ON  
INLETS RECEIVING RUNOFF FROM DISTURBED AREAS. THIS METHOD OF INLET  
PROTECTION SHALL BE REMOVED IF A SAFETY HAZARD IS CREATED.

ONE METHOD: CUBIC INLET PROTECTION USES "PIGS-IN-A-PANALMENT" 8-INCH CONCRETE BLOCKS WRAPPED IN FILTER FABRIC. SEE DETAIL. ANOTHER METHOD USES GRAVEL BAGS CONSTRUCTED BY WRAPPING DOT #57 STONE WITH FILTER FABRIC. WIRE PLASTIC MESH OR EQUIVALENT MATERIAL. A GAP OF APPROXIMATELY 4 INCHES SHALL BE LEFT BETWEEN THE INLET FILTER PAD AND THE INLET TO ALLOW FOR OVERFLOW AND PREVENT HAZARDOUS PONDING IN THE ROADWAY. PROPER INSTALLATION AND MAINTENANCE ARE CRUCIAL TO AVOID PONDING IN THE ROADWAY, RESULTING IN A HAZARDOUS CONDITION.



## CONCRETE TRUCK WASHDOWN

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