

PROJECT DESCRIPTION			<div>THIS PROJECT CONSISTS OF THE FOLLOWING INSTALLATION:</div> <ul style="list-style-type: none"><li>• (1) PROPOSED UNMANNED EQUIPMENT SHELTER ON CONCRETE PAD (31.5'X14').</li><li>• (1) PROPOSED GENERATOR ON CONCRETE PAD (6'X13').</li><li>• (2) PROPOSED &amp; (2) FUTURE FIBER VAULTS (FLUSH WITH GRADE).</li><li>• 8 PROPOSED HIGH CHAIN LINK FENCE SURROUNDING COMPOUND WITH 1' BARBED WIRE (50L X 32"W).</li></ul> <div>PROPOSED UTILITIES TO SITE TO INCLUDE:</div> <ul style="list-style-type: none"><li>• 400A ELECTRICAL SERVICE</li><li>• NATURAL GAS (GENERATOR)</li><li>• TELEPHONE</li><li>• FIBER</li><li>• PROPOSED 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>		
PROJECT INFORMATION			VICINITY MAP		
APPLICANT ADDRESS:  BECHTEL INFRASTRUCTURE AND POWER CORPORATION 2400 HERODIAN WAY SMYRNA, GA 30080			APPLICABLE BUILDING CODES AND STANDARDS		
OWNER:  GOOGLE FIBER GEORGIA, LLC 1600 AMPHITHEATRE PARKWAY MOUNTAIN VIEW, CA 94043			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.		
JURISDICTION:  CITY OF SMYRNA			BUILDING CODE:  IBC INTERNATIONAL BUILDING CODE, 2012 EDITION, WITH 2014 & 2015 GEORGIA AMENDMENTS		
PROPERTY OWNER:  CITY OF SMYRNA			ELECTRICAL CODE:  NEC NATIONAL ELECTRICAL CODE, 2014 EDITION, WITH NO AMENDMENTS		
PARCEL:  #17080900010			MECHANICAL CODE:  IMC INTERNATIONAL MECHANICAL CODE, 2012 EDITION WITH 2014 & 2015 GEORGIA AMENDMENTS		
LATITUDE:  N 33.883923° (NAD 83)			NFPA NATIONAL FIRE PROTECTION ASSOCIATION 101 LIFE SAFETY CODE 2012 EDITION		
LONGITUDE:  W -84.483166° (NAD 83)			INTERNATIONAL FIRE CODE, 2012 EDITION, WITH 2014 GEORGIA AMENDMENTS		
PROJECT CONTACTS			SUBCONTRACTOR'S WORK SHALL COMPLY WITH THE LATEST EDITION OF THE FOLLOWING STANDARDS:		
OWNER CONTACT: PROJECT MANAGER: ENGINEERING CONTACT: PERMITTING CONTACT: CONSTRUCTION CONTACT: 24-HR EMERGENCY CONTACT			AMERICAN CONCRETE INSTITUTE (ACI) 318, BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE 2011		
SCOTT SIMCOX JESS DAWSON LAURA FLAGG RICK MCPHAIL STEVE HARVEY			AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC), MANUAL OF STEEL CONSTRUCTION 14TH EDITION		
678-888-1969 770-779-1849 770-779-1850 770-779-1860 770-779-1876 866-954-1572			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		
DRAWING INDEX			IEEE 1100 RECOMMENDED PRACTICE FOR POWERING AND GROUNDING OF ELECTRONIC EQUIPMENT 1989 EDITION		
REV			IEEE C2 NATIONAL ELECTRIC SAFETY CODE 2012 EDITION		
H0107-00000-HL-00001	TITLE SHEET	000	<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.</div> <div>BUILDING INFORMATION:</div> <div>DESIGN IS FOR A UNMANNED SHELTER WITH THE FOLLOWING SPECIFICATIONS:</div> <ul style="list-style-type: none"><li>• USAGE: UNMANNED SHELTER</li><li>• DIMENSIONS: 12' W X 30' L</li><li>• CONSTRUCTION TYPE: S-1</li><li>• STORIES: 1</li><li>• BASIC WIND SPEED: 150 MPH</li><li>• FLOOR LOAD: 200 PSF</li><li>• ROOF LOAD: 100 PSF</li><li>• FLOOR AREA: 360 SF</li><li>• BUILDING HEIGHT: 11'-7"</li><li>• SEISMIC DESIGN: CATEGORY D</li><li>• WIND EXPOSURE: CATEGORY C</li></ul> <div>GSWCC LEVEL II CERTIFICATION #0000073441</div>		
H0107-00000-HL-00002	GENERAL NOTES	000			
H0107-00000-HL-00003	SITE LAYOUT	000			
H0107-00000-HL-00004	GRADING PLAN	000			
H0107-00000-HL-00005	COMPOUND LAYOUT	000			
H0107-00000-HL-00006	DETAILS	000	<div>HUT ATL129</div> <div>TITLE SHEET</div> <div>DRAWING NUMBER</div> <div>H0129-00000-HL-00101</div> <div>REV</div> <div>25927-230</div> <div>H0129-00000-HL-00101</div> <div>000</div>		
H0107-00000-HL-00007	DETAILS	000			
H0107-00000-HL-00008	EROSION AND SEDIMENT CONTROL DETAILS	000			
FOR INFORMATION ONLY. DO NOT USE FOR PROCUREMENT, FABRICATION OR CONSTRUCTION.			HUT ATL129		
BECHTEL INFRASTRUCTURE AND POWER CORPORATION 2400 HERODIAN WAY SMYRNA, GA 30080 770-779-1855			FIBER HUT ATL129 2410-2416 PARK CIR, SMYRNA, GA 30080, USA		
6	5	4	3	2	1

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, PAYEMENTS, 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, STICKS, 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 OWNERS 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 TUBING OR 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 TUBING 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 EQUIV.). 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 GES'S) 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.



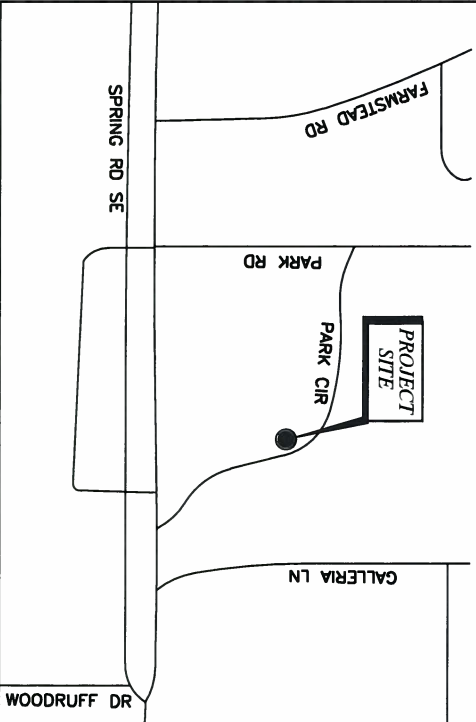
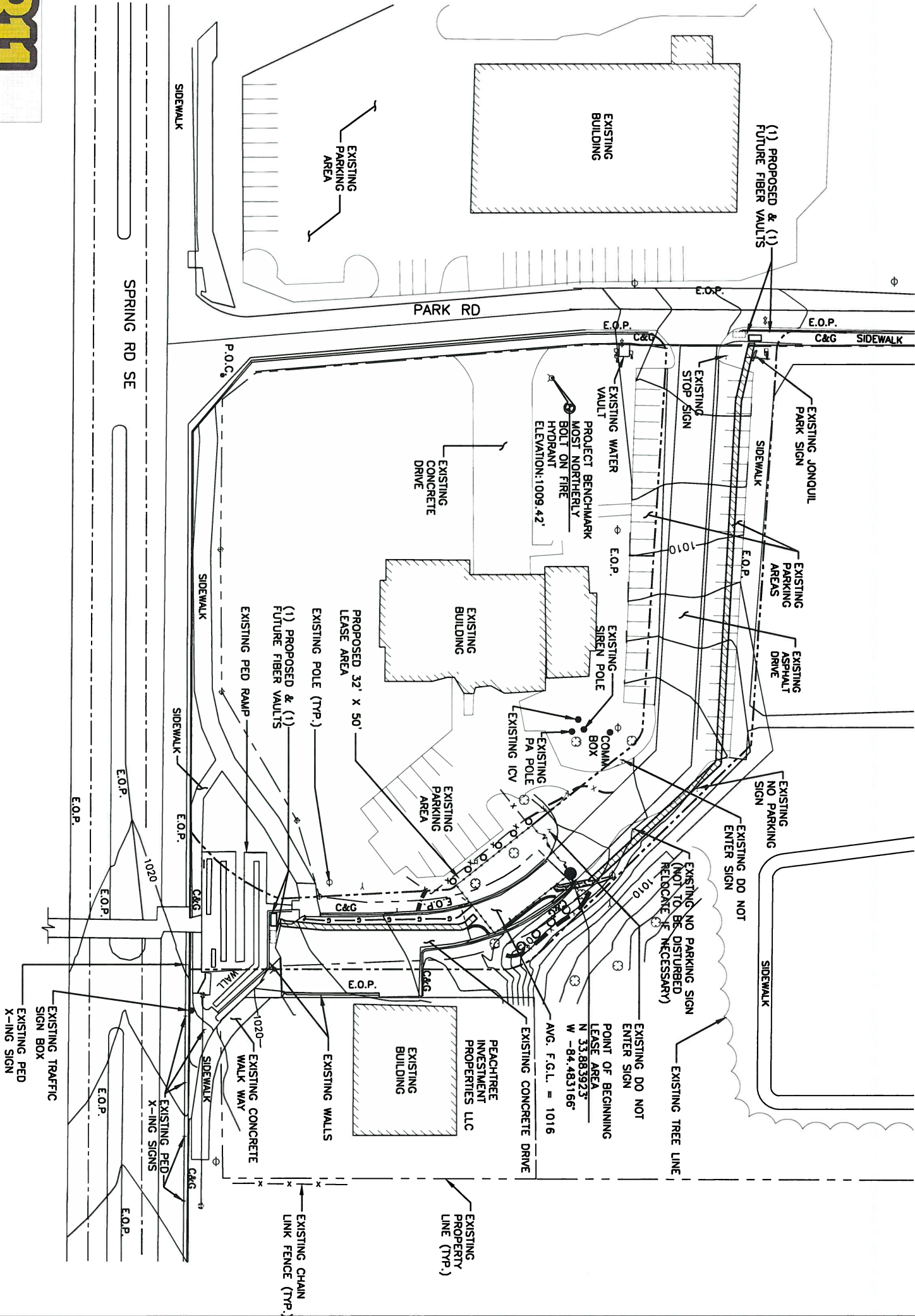
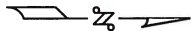
HUT ATL129

GENERAL NOTES

REV	DESCRIPTION	DATE
23927-230	H0129-00000-HL-00102	000

<div><div><b>BECHTEL INFRASTRUCTURE AND POWER CORPORATION</b> 2400 HERODIAN WAY SMYRNA, GA 30080 770-779-1855</div></div>		<div><b>FIBER HUT ATL129</b> 2410-2416 PARK CIR, SMYRNA, GA 30080, USA</div>		<div><b>HUT ATL129</b></div>		<div>SCALE: AS SHOWN</div> <div>DESIGNED BY: NFM</div> <div>DRAWN BY: NFM</div>		<div><div><div>HUT ATL129</div><div>GENERAL NOTES</div><div>23927-230</div></div><div><div>DRAWING NUMBER</div><div>H0129-00000-HL-00102</div><div>000</div></div></div>	
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LEGEND	
EXISTING CONTOUR	---
RETAINED CONTOUR	----
PROPOSED CONTOUR	=====
NATURAL GAS	—G—G—
SILT FENCE	—x—x—x—
NON-EXCLUSIVE UTILITY EASEMENT	----

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.**

FULL SCALE 1"=30'-0"

HALF SCALE 1"=60'-0"

30 15 0 30 60 FT

SITE LAYOUT 1 103



BECHTEL INFRASTRUCTURE AND POWER CORPORATION

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

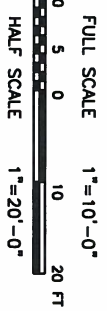
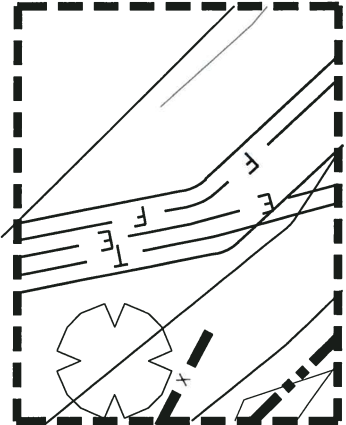
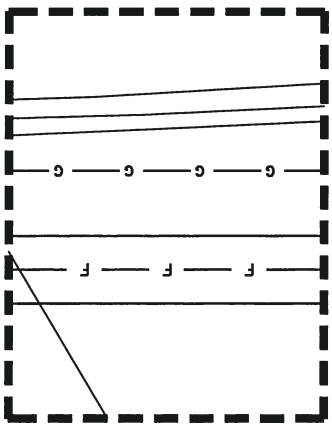
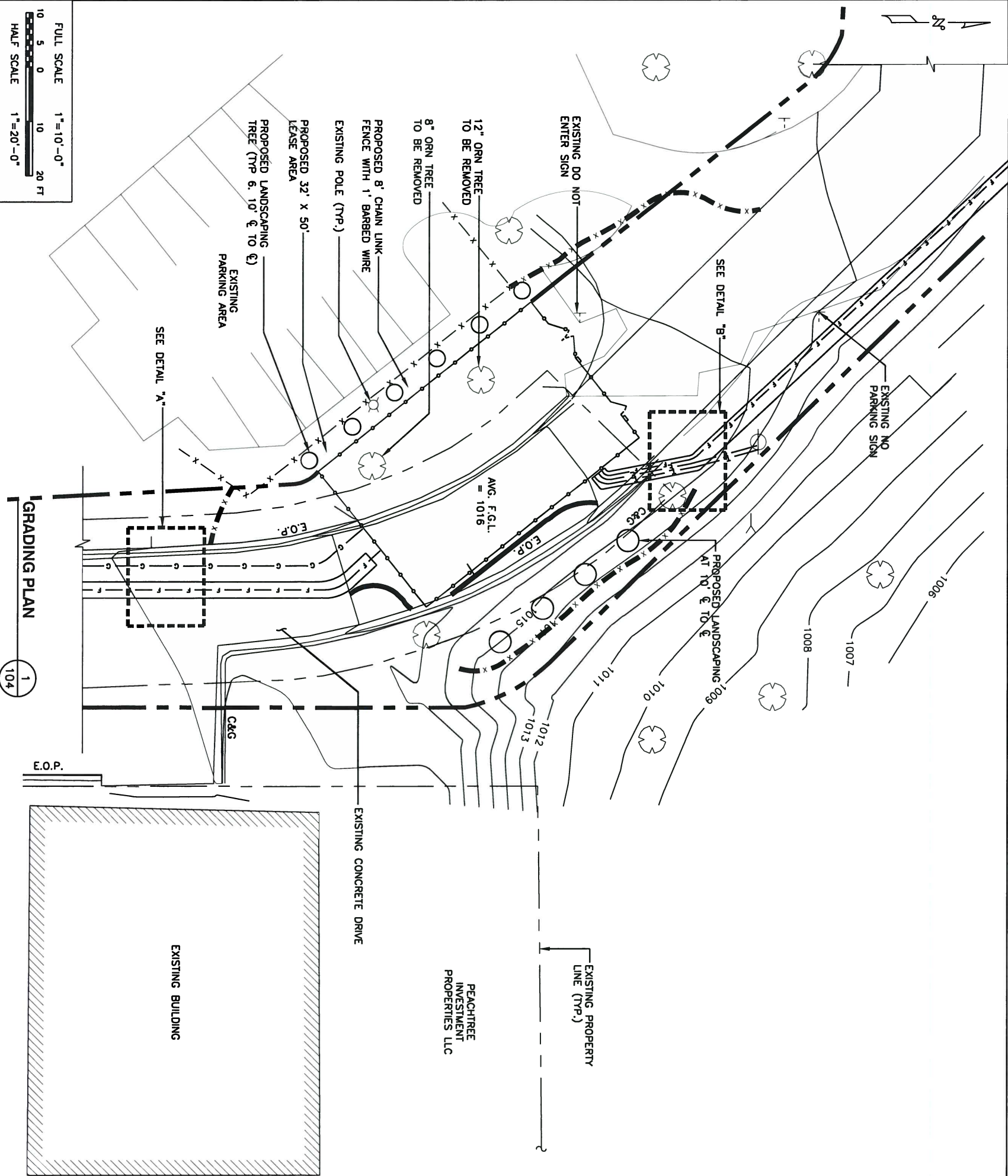
FIBER HUT  
ATL129  
2410-2416 PARK CIR,  
SMYRNA, GA 30080, USA

HUT ATL129

NO.		DATE	ISSUED FOR PERMIT	REVISIONS	BY	CHK	SUPV	APP'D
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SCALE: AS SHOWN					DESIGNED BY: NTM	DRAWN BY: NTM		

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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 —
NON-EXCLUSIVE UTILITY EASEMENT	---



BECHTEL INFRASTRUCTURE AND POWER CORPORATION

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

FIBER HUT  
ATL129

2410-2416 PARK CIR,  
SMYRNA, GA 30080, USA

HUT ATL129

NO.	DATE	ISSUED FOR PERMIT	REVISIONS	DESIGNED BY: NTM	DRAWN BY: NTM
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HUT ATL129

GRADING PLAN

NO.	DATE	ISSUED FOR PERMIT	REVISIONS	DESIGNED BY: NTM	DRAWN BY: NTM
25927-230					

DRAWING NUMBER  
H0129-00000-HL-00104

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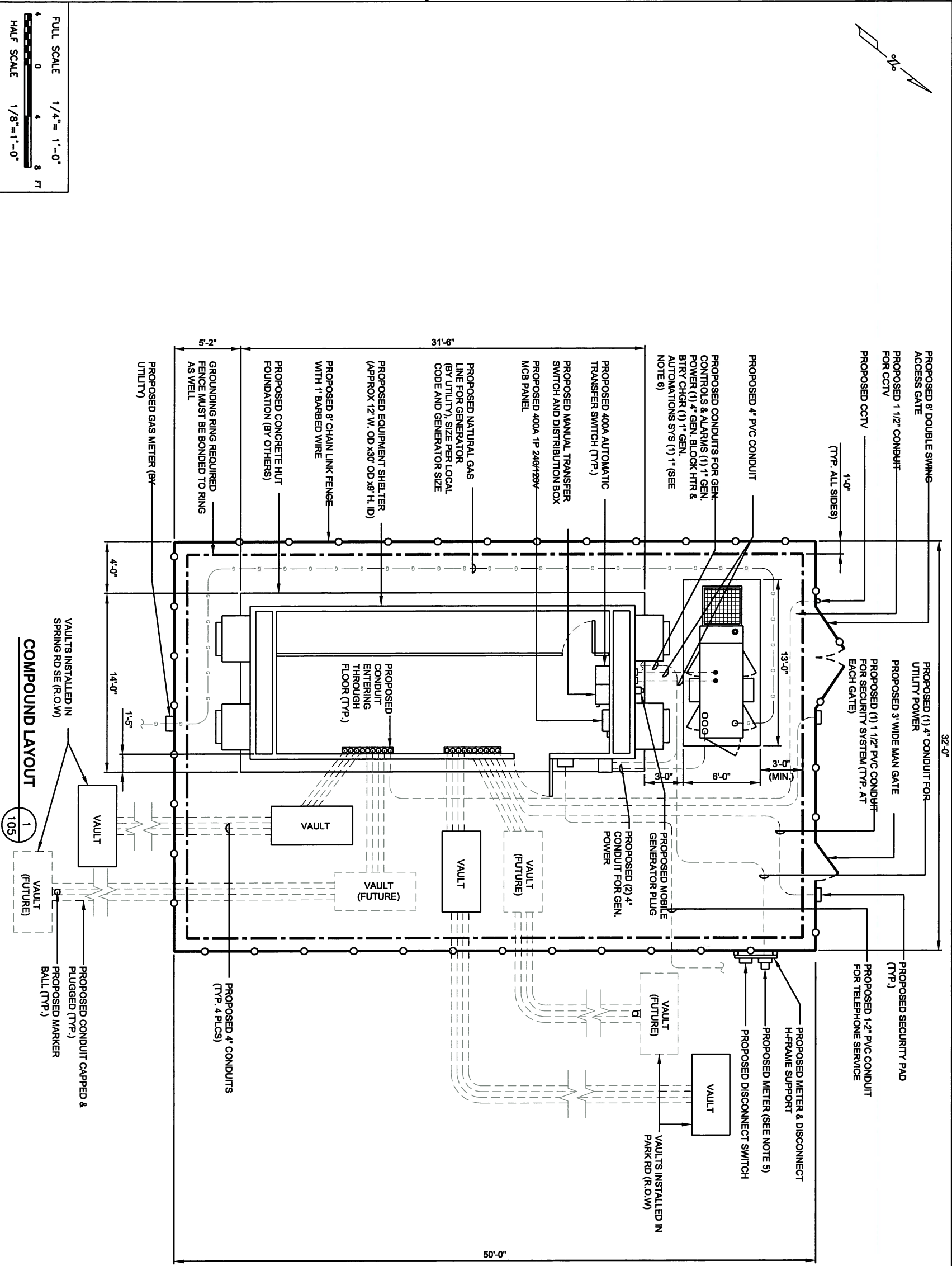
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22 x 34" 1/8" S&T

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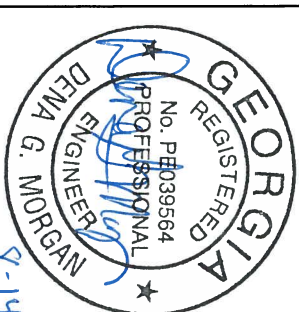




- BUILDING INFORMATION:**
- ELECTRICAL SERVICE IS 400 AMP, 120/240 VOLT, SINGLE PHASE.
  - ALL ITEMS MARKED "FUTURE" ARE TO BE IMPLEMENTED LATER AT A YET UNDETERMINED TIME. THESE ITEMS MARKED "FUTURE" MAY OR MAY NOT BE IMPLEMENTED AND ARE SHOWN ONLY FOR REFERENCE.

**CONSTRUCTION NOTES:**

- SUBCONTRACTOR SHALL FIELD VERIFY SCOPE OF WORK, NEW UNMANNED SHELTER LOCATION AND CONCRETE PAD TO BE INSTALLED.
- SUBCONTRACTOR SHALL COORDINATE WORK AND PROCEDURES WITH CONTRACTOR.
- ALL GRAVEL SURFACE IN AREAS OF THE SITE THAT WERE DISTURBED DURING CONSTRUCTION SHALL BE REPLACED TO ITS ORIGINAL CONDITION BY SUBCONTRACTOR.
- THE FIBER CONDUITS ENTERING AND EXITING THE HUT FOLLOW THE EAST-WEST ROUTE. THAT IS THE FIBER WILL COME IN ONE SIDE OF THE HUT AND EXIT ON THE OTHER SIDE. FIBER WILL NOT BE IN THE SAME TRENCH AT ANY TIME TO MAINTAIN TRUE DIVERSITY.
- TOP ELEVATION OF PROPOSED NEW SLAB SHALL BE A MINIMUM OF 2 INCHES ABOVE EXISTING GRADE.
- SUBCONTRACTOR SHALL INSTALL FOUNDATION IN ACCORDANCE WITH ALL SHELTER MANUFACTURER'S INSTALLATION DOCUMENTS. ANY CONFLICTS OF CONSTRUCTION DOCUMENTS WITH SHELTER MANUFACTURER RECOMMENDATIONS SHALL BE REPORTED TO THE CONTRACTOR FOR RESOLUTION PRIOR TO INSTALLATION.
- ROUTING OF PROPOSED CONDUITS ARE SHOWN DIAGRAMMATICALLY. SUBCONTRACTOR SHALL DETERMINE EXISTENCE OF INTERFERENCES AND ALL UNDERGROUND UTILITIES.
- SUBCONTRACTOR TO INSTALL ROW VAULTS AND ALL ASSOCIATED CONDUITS.



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COMPOUND LAYOUT

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25927-230							

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**FIBER HUT ATL129**  
2410-2416 PARK CIR,  
SMYRNA, GA 30080, USA

**HUT ATL129**

**COMPOUND LAYOUT**

1

VAULT (FUTURE)

PROPOSED CONDUIT CAPPED & PLUGGED (TYP.)  
PROPOSED MARKER BALL (TYP.)

VAULTS INSTALLED IN SPRING RD SE (R.O.W.)

**COMPOUND LAYOUT**

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**COMPOUND LAYOUT**

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PROPOSED MARKER BALL (TYP.)

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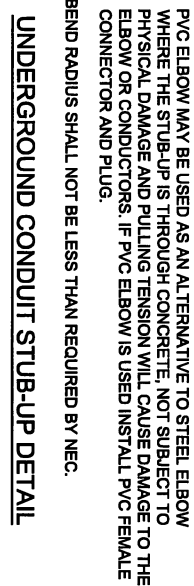
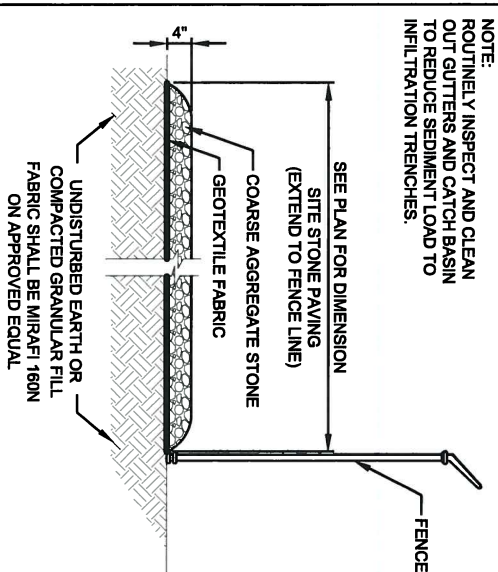
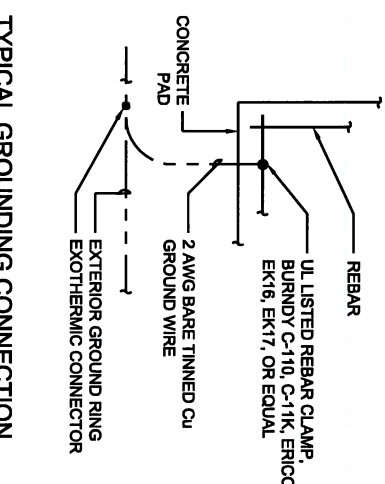
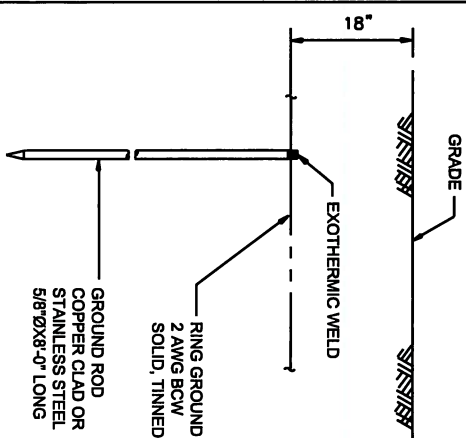
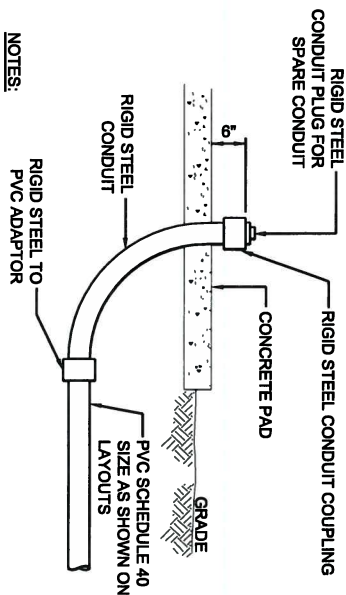
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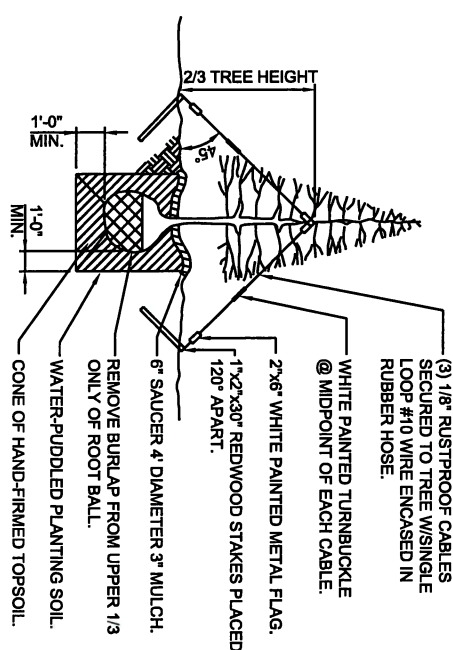
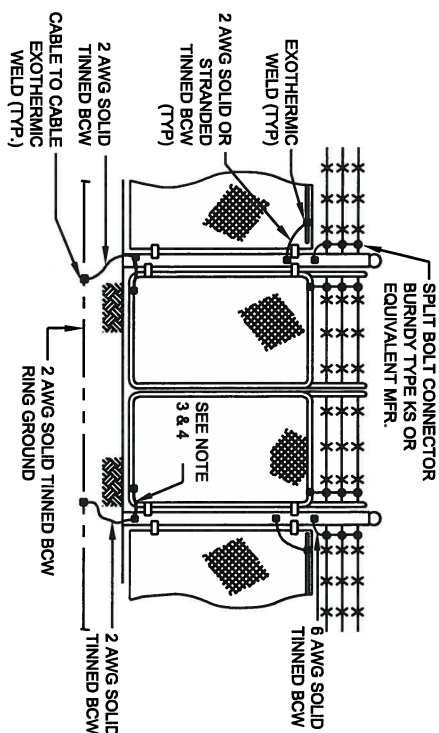
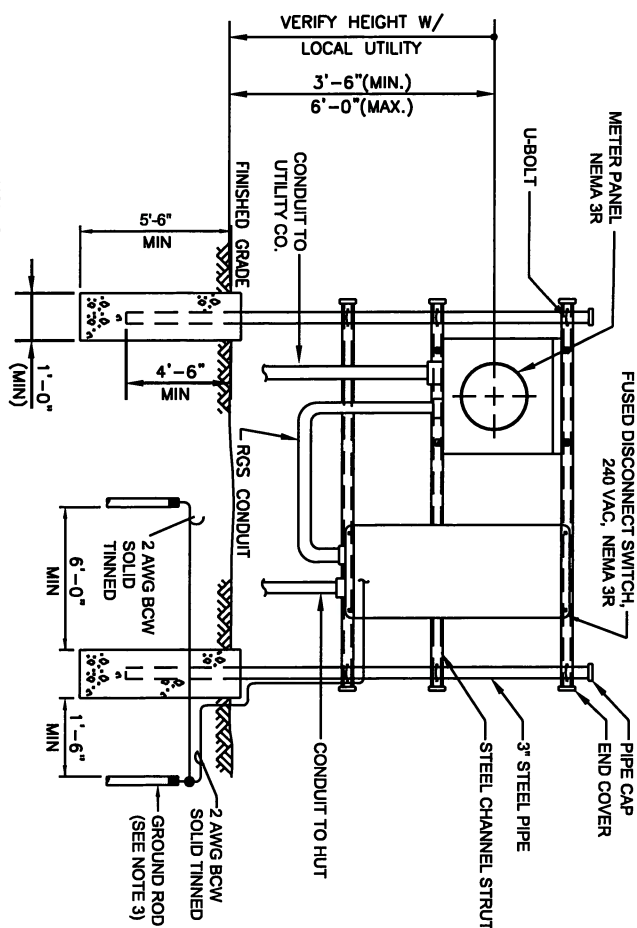
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## UNDERGROUND CONDUIT STUB-UP DETAIL



PLANT MATERIALS LIST					
QTY.	BOTANICAL NAME	COMMON NAME	SIZE	ROOT	COMMENTS
TBD	THUJA OCCIDENTALIS	EMERALD GREEN ARBORVITAE	4'-0"	BB	TBD BY CITY ARBORIST

### TREE PLANTING DETAIL



### **DISCONNECT AND METER PANEL SUPPORT DETAIL**



**BECHTEL INFRASTRUCTURE AND  
POWER CORPORATION**



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

## FIBER HUT

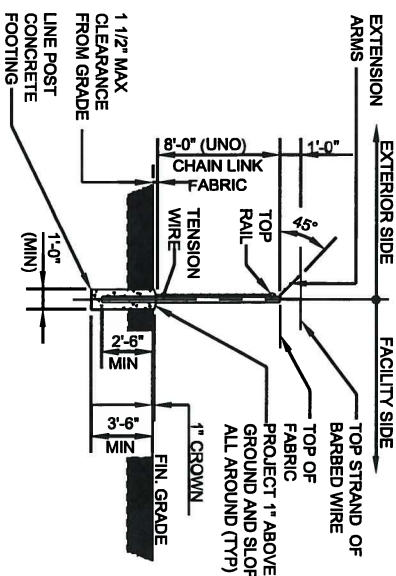
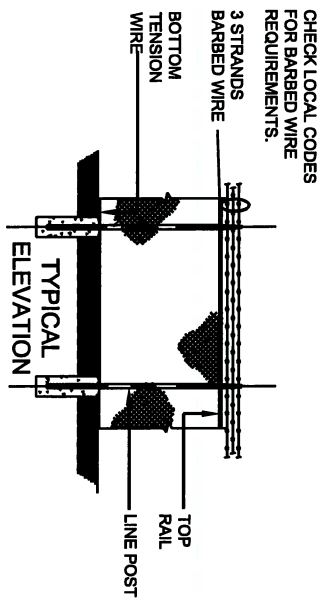
2410-2416 PARK CIR,  
SMYRNA, GA 30080, USA

# HUT ATLL129

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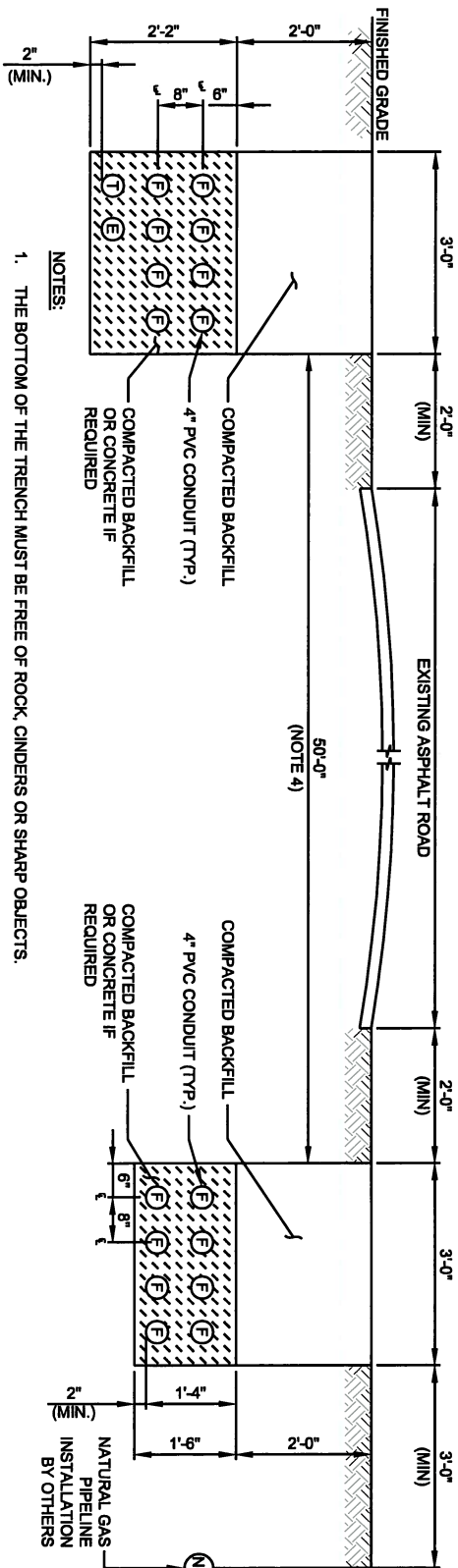
HUT ATL129	
DETAILS	
DRAWING NUMBER	REV
25927-230	H0129-00000-HI-00106 00





- NOTES:**

1. GATE POST, CORNER, TERMINAL OR PULL POST SHALL BE 2 7/8"Ø SCHEDULE 40 FOR GATE WIDTHS UP THROUGH 6 FEET OR 12 FEET FOR DOUBLE SWING GATE PER ASTM-F1083.
2. LINE POST: 2-3/8"Ø SCHEDULE 40 PIPE PER ASTM-F1083.
3. GATE FRAME: 1 1/2"Ø SCHEDULE 40 PIPE PER ASTM-F1083.
4. TOP RAIL & BRACE RAIL: 1 1/4"Ø SCHEDULE 40 PIPE PER ASTM-F1083.
5. FABRIC: 9 GA. CORE WIRE SIZE 2" MESH, CONFORMING TO ASTM-A392 CLASS 1.
6. THE WIRE: MINIMUM 11 GA GALVANIZED STEEL. INSTALL A SINGLE WRAP THE WIRE AT POSTS AND RAILS AT MAX. 24" INTERVALS. INSTALL HOG RINGS ON TENSION WIRE AT 24" INTERVALS.
7. TENSION WIRE: 7 GA. GALVANIZED STEEL.
8. BARBED WIRE: DOUBLE STRAND 12-1/2 GAUGE TWISTED WIRE, 4 PT. BARBS SPACED ON APPROXIMATELY 5" CENTERS. (IF USED)
9. GATE LATCH: 1-3/8" O.D. PLUNGER ROD W/ MUSHROOM TYPE CATCH AND LOCK (KEYED ALIKE FOR ALL SITES OR COMBINATION AS SPECIFIED BY OWNER).
10. LOCAL ORDINANCE FOR BARBED WIRE PERMIT SHALL GOVERN INSTALLATION.
11. ALL WORK SHALL CONFORM WITH THE DESIGN AND CONSTRUCTION SPECIFICATIONS FOR FENCES.
12. FENCE AND POST COLOR TO BE PANTONE CODA GREEN #5535



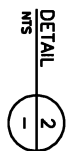
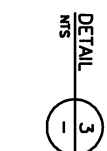
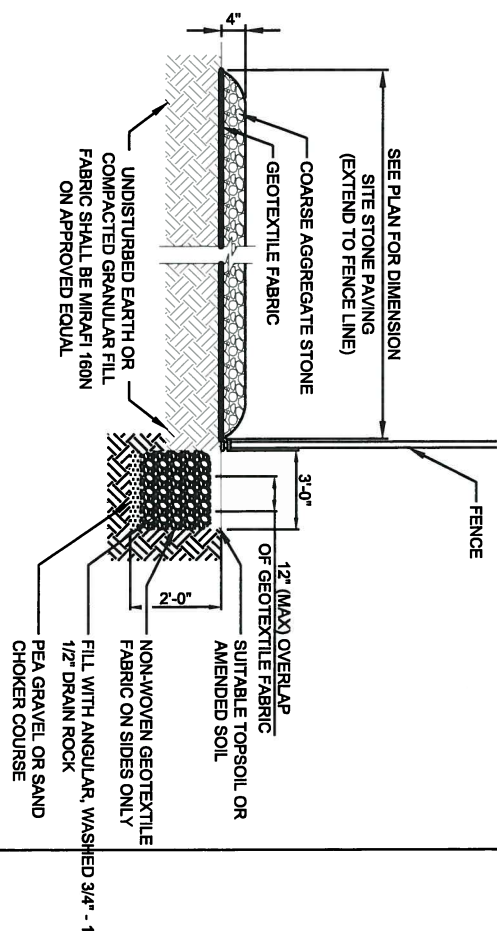
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- The diagram illustrates a cross-section of a road. A horizontal line represents the ground surface. Below this line, a thick, dark horizontal bar represents the existing pavement. To the right of this bar, a vertical double-headed arrow is labeled "EXISTING PAVEMENT RESTORATION". To the left of the bar, a vertical line segment is labeled "PAVEMENT LAYERS (TO MATCH EXISTING), AS NECESSARY".

- NOTES:**

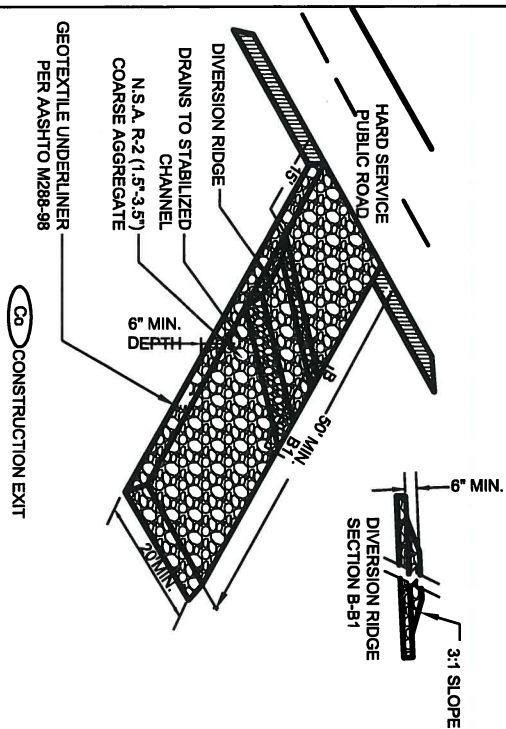
1. EXISTING PAVEMENT AND SIDEWALK SHALL BE REPAIRED/RECONDITIONED TO THEIR ORIGINAL STATE PRIOR TO CONSTRUCTION. ALL MATERIALS USED FOR REPAIR/RECONDITIONING SHALL MATCH EXISTING.



- NOTE:**  
ROUTINELY INSPECT AND CLEAN  
OUT GUTTERS AND CATCH BASIN  
TO REDUCE SEDIMENT LOAD TO  
INFILTRATION TRENCHES.

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HUT ATL129	
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DRAWING NUMBER	REV
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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.

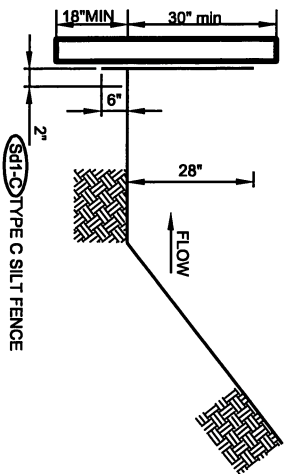
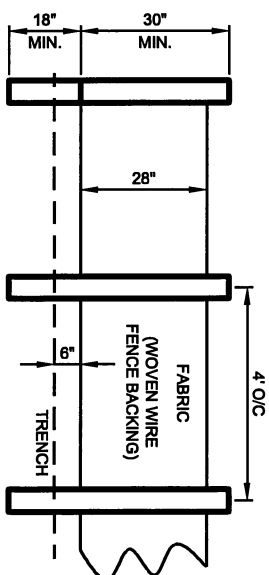
AGGREGATE SIZE  
STONE WILL BE IN ACCORDANCE WITH NATIONAL STONE ASSOCIATION R-2  
(1.5 TO 3.5 INCH STONE).

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

**PAD WIDTH** 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 MUD ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH 1.5-3.5 INCH 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.



**MAINTENANCE**  
SEDIMENT SHALL BE REMOVED ONCE IT HAS ACCUMULATED TO ONE-HALF THE ORIGINAL HEIGHT OF THE BARRIER. FILTER FABRIC SHALL BE REPLACED WHENEVER IT HAS DETERIORATED TO SUCH AN EXTENT THAT THE EFFECTIVENESS OF THE FABRIC IS REDUCED (APPROXIMATELY SIX MONTHS). TEMPORARY SEDIMENT BARRIERS SHALL REMAIN IN PLACE UNTIL DISTURBED AREAS HAVE BEEN PERMANENTLY STABILIZED. ALL SEDIMENT ACCUMULATED AT THE BARRIER SHALL BE REMOVED AND PROPERLY DISPOSED OF BEFORE THE BARRIER IS REMOVED.

DETAIL 3  
NTS 108

**BECHTEL INFRASTRUCTURE AND  
POWER CORPORATION**

**BECHTEL**  
POWER CORPORATION  
2400 HERODIAN WAY  
SMYRNA, GA 30080  
770-779-1855

**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 SILT 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 6 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 S&P 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 TO SEDIMENT ACCUMULATION. SOD INLET PROTECTION SHALL BE MAINTAINED AS SPECIFIED IN DSA-2 DISTURBED AREA STABILIZATION (WITH SODDING).

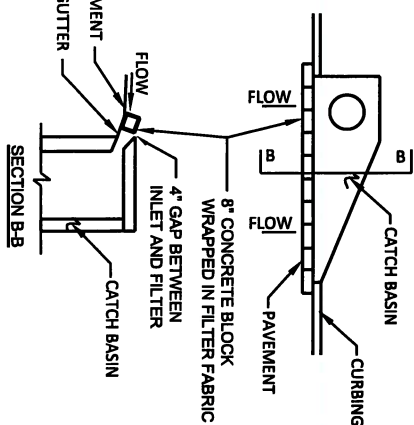
SEDIMENT SHALL NOT BE WASHED INTO THE INLET. IT SHALL BE REMOVED FROM THE SEDIMENT TRAP AND DISPOSED OF AND STABILIZED SO THAT IT WILL NOT ENTER THE INLET, AGAIN.

WHEN THE CONTRIBUTING DRAINAGE AREA HAS BEEN PERMANENTLY STABILIZED, ALL MATERIALS AND ANY REMAINING DEBRIS 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**

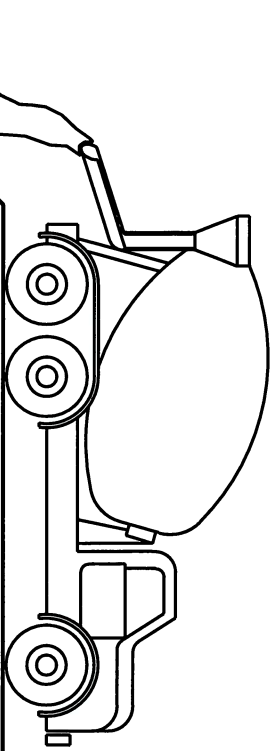
MANY SEDIMENT FILTERING DEVICES CAN BE DESIGNED TO SERVE AS TEMPORARY SEDIMENT TRAPS. SEDIMENT TRAPS MUST BE SELF-DRAINING UNLESS THEY ARE OTHERWISE PROTECTED IN AN APPROVED FASHION THAT WILL NOT PRESENT A SAFETY HAZARD. THE AREA DRAINING TO THE INLET SEDIMENT TRAP SHALL BE NO GREATER THAN ONE ACRE.

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 FIRST-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 OF CURB INLET PROTECTION USES "PIGS-IN-A-BALKEKIT," 8-INCH CONCRETE BLOCKS WRAPIED IN FILTER FABRIC. SEE DETAIL. ANOTHER METHOD USES GRAVEL BAGGED INSIDE, CONSTRUCTED BY WRAPIING DOT #457 STONE WITH FILTER FABRIC. WIRE PLASTIC MESH, OR EQUIVALENT MATERIAL, A GAP OF APPROXIMATELY 1/4 INCHES SHALL BE LEFT BETWEEN THE INLET FILTER 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.



DESIGNATE WASHDOWN AREA AND EXCAVATE PIT LARGE ENOUGH TO CONTAIN WASHDOWN WATER. THIS MUST BE AWAY FROM STORM DRAINS AND WATERWAYS.

**ADVISE CONCRETE TRUCK DRIVERS OF THE DESIGNATED WASH-OUT AREAS BEFORE THEY START THE JOB.**

**WASHDOWN CHUTE, HOPPER, AND REAR OF VEHICLE ONLY. DO NOT  
WASH OUT DRUM**

**ENSURE THAT ALL WASHDOWN WATER STAYS IN PIT.**

**DISPOSE OF SETTLED, HARDENED CONCRETE IN GARBAGE WITH OTHER CONSTRUCTION DEBRIS.**

**NEVER DISPOSE OF WASHDOWN WATER IN STREETS, STORM DRAINS, OR STREAMS.**

## CONCRETE TRUCK WASHDOWN

DETAIL 4  
NTS 108

HUT ATLL129

## EROSION AND SEDIMENT CONTROL DETAILS

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