

PREPARED FOR:



**SKYWAY TOWERS**

3637 MADACA LANE  
TAMPA, FL 33618

SITE NAME:

# OLD MEDLOCK

PROJECT DESCRIPTION

# RAWLAND 76' MONOPINE

TOTAL TOWER HEIGHT INCLUDING THE APURTENANCE - 80' AGL

## PROJECT SUMMARY

SITE ADDRESS: 10475 MEDLOCK BRIDGE ROAD  
JOHNS CREEK, GA 30097

LATITUDE: 34° 02' 13.0"  
LONGITUDE: 84° 11' 04.3"

PARCEL ID: 11 09200325C01

ZONING CLASSIFICATION: O-I  
ZONING JURISDICTION: CITY OF JOHNS CREEK

LAND OWNER: IVY FALLS OFFICE CONDOMINIUM  
ASSOCIATION, INC.

APPLICANT: SKYWAY TOWERS  
3637 MADACA LANE  
TAMPA, FL 33618

ENGINEER: TOWERSOURCE  
1875 OLD ALABAMA ROAD,  
ROSWELL, GA 30076  
678-990-2338  
ELIZABETH B USHER P.E.  
GSWCC LEVEL II: 0000068680

CONTACT: BRANDON STEWART  
678-990-2338

TELEPHONE COMPANY: CONSULT CM

POWER COMPANY: SAWNEE EMC GA POWER  
770-887-2363

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PREPARED FOR:



**SKYWAY TOWERS**

3637 MADACA LANE  
TAMPA, FL 33618

A&E FIRM:

**TOWERSOURCE**

1875 OLD ALABAMA ROAD, SUITE 1008  
ROSWELL, GA 30076  
TEL 678-990-2338  
FAX 678-990-2342  
ENGINEER: ELIZABETH B. USHER

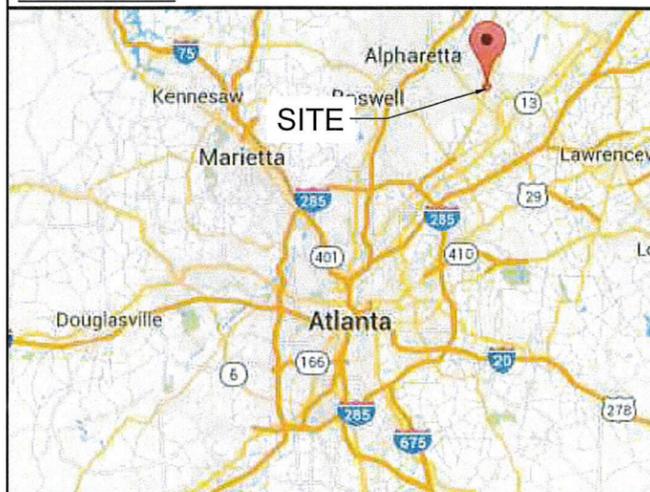
THE INFORMATION CONTAINED IN THIS SET OF DOCUMENTS IS PROPRIETARY BY NATURE. ANY USE OR DISCLOSURE OTHER THAN THAT WHICH RELATES TO THE CLIENT IS STRICTLY PROHIBITED.

A&E PROJECT #:	--
DRAWN BY:	JBE
CHECKED BY:	EBU

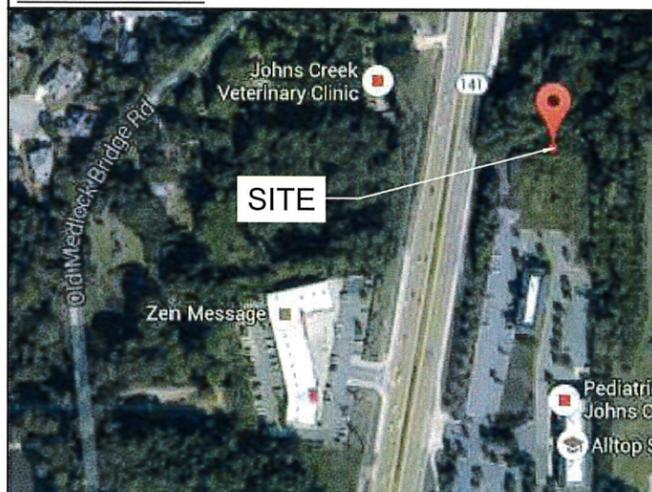
## REVISIONS

NO.	DATE	DESCRIPTION
A	09/16/15	ISSUED FOR REVIEW
0	11/16/15	ISSUED FOR CONSTRUCTION
1	02/08/16	MOVED TOWER LOCATION
2	09/07/16	UPDATED TOWER HEIGHT
3	09/15/16	REVISED COMPOUND SIZE

VICINITY MAP



LOCATION MAP



### DRIVING DIRECTIONS FROM ATLANTA:

Take I-75 N/I-85 N 3.1 mi  
Keep left at the fork to continue on I-85 N 10.4 mi  
Use the right 2 lanes to take exit 95 for I-285 W 1.5 mi  
Merge onto I-285 1.0 mi  
Take exit 31B to merge onto GA-141 N 4.0 mi  
Use the left 2 lanes to take the Georgia 141 N exit 0.3 mi  
Use the right 2 lanes to merge onto GA-141 N and site will be on the right 6.8 mi



Know what's below.  
Call before you dig.

VERIZON WIRELESS SITE NAME:

**OLD  
MEDLOCK**

TOWER OWNER / SITE NUMBER:

VERIZON

DESIGN TYPE:

BTS

SHEET TITLE:

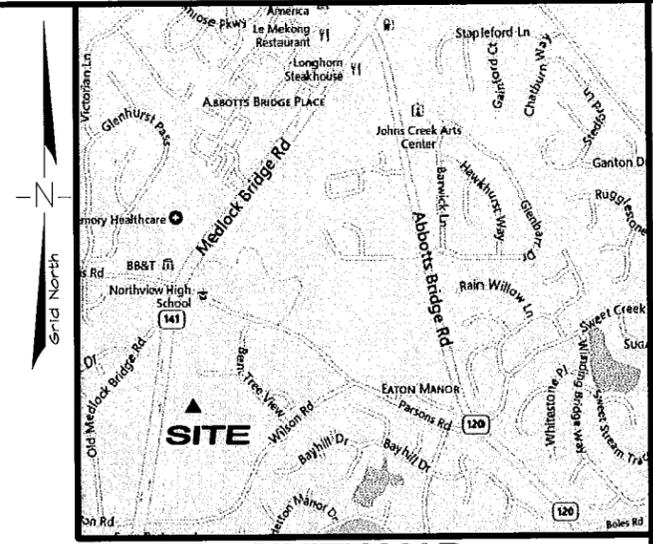
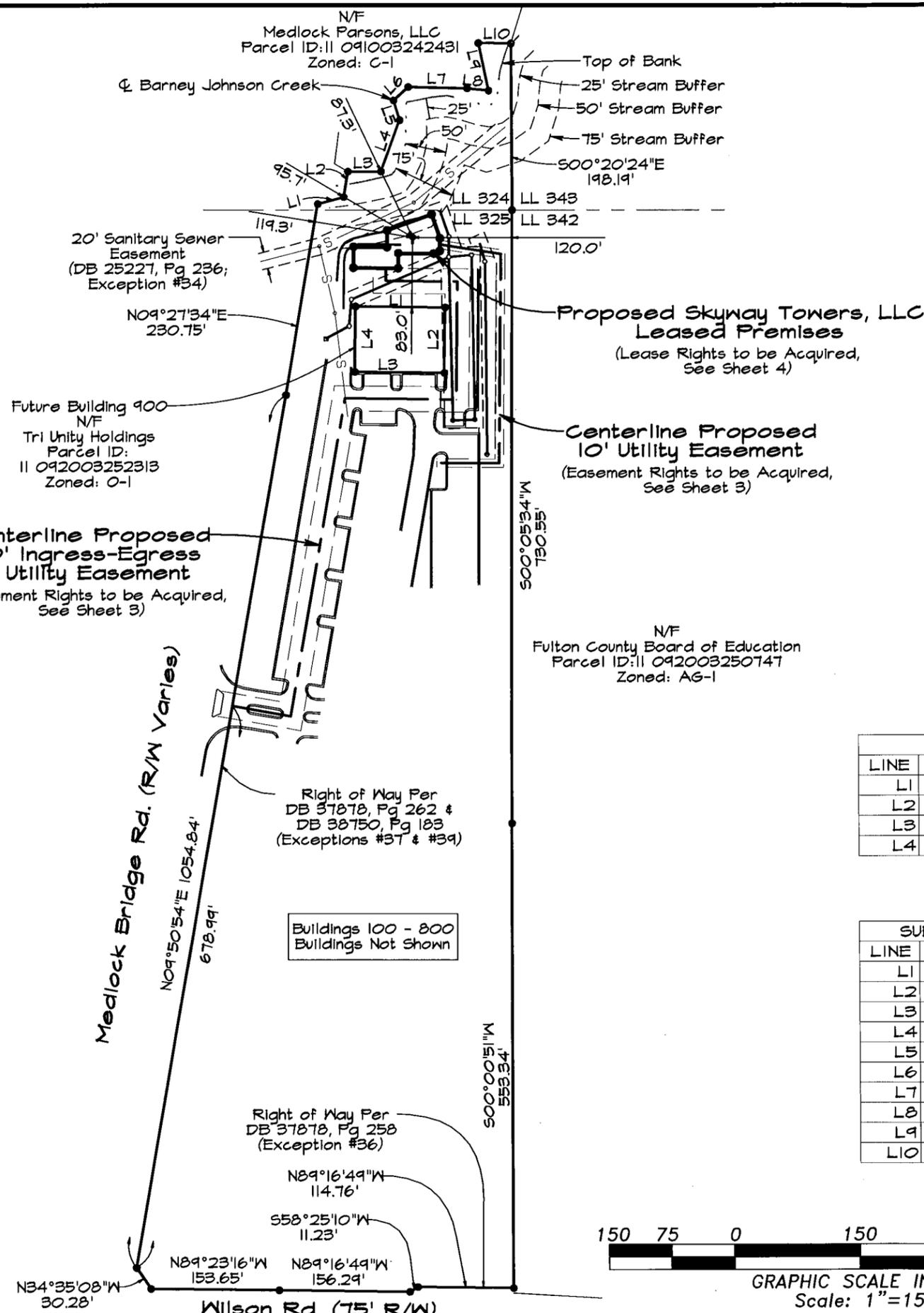
TITLE SHEET

DRAWING NO.

T1

REVISION NO.

2



SUBJECT PROPERTY	
Owner:	Ivy Falls Office Condominium Association, Inc.
Site Address:	10475 Medlock Bridge Road, Johns Creek, GA 30097
County:	Fulton
Land District:	1st
Land Section:	1st
Land Lot:	325
Parcel ID:	11 09200325C01
Zoned:	O-1
Area:	10.76 Acres ±
Flood Zone:	Zone X

**GENERAL NOTES**

This survey was prepared for the exclusive use of Skyway Towers, LLC and exclusively for the transfer of the leasehold and the rights of easement shown hereon and shall not be used as an exhibit or evidence in the transfer of the subject property nor any portion or portions thereof.

The outer boundary of the subject property as shown hereon was established using a combination of deeds of record, plats of record, and some field work. However, a complete boundary survey was not performed for this drawing.

Equipment Used:  
Angular & Linear: Topcon GTS-225

The field data upon which this survey is based was collected from multiple control points and was not closed.

This survey has been calculated for closure and is found to be accurate to within one foot in 100,000+ feet.

The 2' contours shown on this plat are based on U.S.G.S. datum and have a vertical accuracy of ± 1.0'. Contours outside the immediate site area are approximate.

Bearings shown on this survey are based on Grid North (NAD 83)

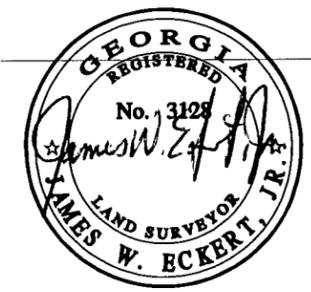
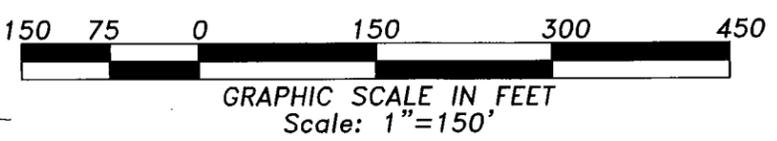
No portion of the Lease Area or Ingress-Egress & Utility Easement is located in a special flood area as per F.I.R.M. Community Panel No. FM13121C0091G dated September 18, 2013. (Zone X)

The utilities shown hereon are based upon an above-ground field survey. The actual utility locations should be field verified by the contractor before any construction begins.

BUILDING 900		
LINE	Bearing	Distance
L1	S89°24'38\"E	108.00'
L2	S00°35'22\"W	78.00'
L3	N89°24'38\"W	108.00'
L4	N00°35'22\"E	78.00'

SUBJECT PROPERTY		
LINE	Bearing	Distance
L1	N75°10'50\"E	32.61'
L2	N09°09'30\"E	30.77'
L3	N89°51'34\"E	39.81'
L4	N20°22'22\"E	65.27'
L5	N17°42'47\"W	24.51'
L6	N48°04'44\"E	23.86'
L7	S88°46'34\"E	71.00'
L8	S84°03'10\"E	26.19'
L9	N12°32'09\"W	57.81'
L10	S89°22'54\"E	39.49'

**TITLE EXCEPTIONS**  
SEE SHEET 2 OF 5



- LEGEND**
- POB POINT OF BEGINNING
  - IPS IRON PIN SET
  - IPF IRON PIN FOUND
  - CMF CONCRETE MONUMENT FOUND
  - UP UTILITY POLE
  - LP LIGHT POLE
  - FP FLAG POLE
  - SSMH SANITARY SEWER MANHOLE
  - SDMH STORM DRAIN MANHOLE
  - INV INVERT
  - FH FIRE HYDRANT
  - EP EDGE OF PAVEMENT
  - TC TOP OF CURB
  - BC BACK OF CURB
  - TW TOP OF WALL
  - BW BOTTOM OF WALL
  - OU OVERHEAD UTILITY
  - UE UNDERGROUND UTILITY
  - CMP CORRUGATED METAL PIPE
  - PCP REINFORCED CONCRETE PIPE
  - PVC POLYVINYL CHLORIDE PIPE
  - GW GW WIRE ANCHOR
  - TR TRANSFORMER
  - JB JUNCTION BOX
  - SWCB SINGLE WING CATCH BASIN
  - DWCB DOUBLE WING CATCH BASIN
  - CLF CHAIN LINK FENCE
  - WV WATER VALVE
  - WM WATER METER
  - CO SEWER CLEAN-OUT
  - GV GAS VALVE
  - N/F NOW OR FORMERLY

RELEASE DESCRIPTION

DATE:

**civil survey**  
civilsurvey, inc.  
93 Holly Grove Road  
Griffin, Georgia 30224  
404.925.8774

APPROVED BY: [Signature]

CHECKED BY: [Signature]

DRAWN BY: [Signature]

**SKYWAY TOWERS, LLC**

Easement Survey for

3637 Madaca Lane  
Tampa, Florida 33618

Date: 22 February 2016

Land District: 1st

Land Section: 1st

Land Lot: 324 and 325

City: (unincorporated)

County: Fulton

State: Georgia

csi Project Number: 2015.019

**"Old Medlock"**  
GA-01172

**1** of 5







**SUBJECT PROPERTY**

All that tract or parcel of land lying and being in Land Lots 324 and 325 of the 1st District, 1st Section, Fulton County, Georgia, and being more particularly described as follows:

BEGINNING at the Land Lot corner common to Land Lots 324, 325, 342, and 343;  
 Thence running along the land Lot line common to Land Lots 325 and 342,  
 South 00°05'34" West, 730.55 feet to a point;  
 Thence, South 00°00'51" West, 553.34 feet to a point on the northern right of way  
 of Wilson Road;  
 Thence running along said right of way, North 89°16'49" West, 114.76 feet to a point;  
 Thence, South 58°25'10" West, 11.23 feet to a point;  
 Thence, North 89°16'49" West, 156.29 feet to a point;  
 Thence, North 89°23'16" West, 153.65 feet to a point;  
 Thence, North 34°35'08" West, 30.28 feet to a point on the eastern right of way  
 of Medlock Bridge Road;  
 Thence, North 09°50'54" East, 1054.84 feet to a point;  
 Thence, North 09°27'34" East, 230.75 feet to a point;  
 Thence, North 75°10'50" East, 32.61 feet to a point;  
 Thence, North 09°09'30" East, 30.77 feet to a point on the centerline of Barney Johnson Creek;  
 Thence running along said creek centerline, North 89°51'34" East, 39.81 feet to a point;  
 Thence, North 20°22'22" East, 65.27 feet to a point;  
 Thence, North 17°42'47" West, 24.51 feet to a point;  
 Thence, North 48°04'44" East, 23.86 feet to a point;  
 Thence, South 88°46'34" East, 71.00 feet to a point;  
 Thence, South 84°03'10" East, 26.19 feet to a point;  
 Thence, North 12°32'09" West, 57.81 feet to a point;  
 Thence leaving said creek centerline and running, South 89°22'54" East, 39.49 feet to a point  
 on the Land Lot line common to Land Lots 324 and 343;  
 Thence running along said Land Lot line, South 00°20'24" East, 198.19 feet to a point  
 and the true POINT OF BEGINNING.

Said tract contains 10.7582 acres (468,628 square feet), more or less.

**LEASED PREMISES**

All that tract or parcel of land lying and being in Land Lot 325 of the 1st District, 1st Section, Fulton County, Georgia, and being more particularly described as follows:

To find the Point of Beginning, COMMENCE at the Land Lot corner common to Land Lots  
 324, 325, 342, and 343;  
 Thence running along the land Lot line common to Land Lots 325 and 342,  
 South 00°05'34" West, 730.55 feet to a point;  
 Thence, South 00°00'51" West, 553.34 feet to a point on the northern right of way  
 of Wilson Road;  
 Thence running along said right of way, North 89°16'49" West, 114.76 feet to a point;  
 Thence, South 58°25'10" West, 11.23 feet to a point;  
 Thence, North 89°16'49" West, 156.29 feet to a point;  
 Thence, North 89°23'16" West, 153.65 feet to a point;  
 Thence, North 34°35'08" West, 30.28 feet to a point on the eastern right of way  
 of Medlock Bridge Road;  
 Thence, North 09°50'54" East, 678.99 feet to a point;  
 Thence leaving said right of way and running, South 80°09'06" East, 71.07 feet to a point;  
 Thence, North 09°47'15" East, 384.17 feet to a point;  
 Thence, South 89°24'38" East, 134.39 feet to a point;  
 Thence, North 00°35'22" East, 140.60 feet to a point;  
 Thence, North 89°24'38" West, 86.94 feet to a point;  
 Thence, North 00°35'22" East, 15.00 feet to a point;  
 Thence, North 89°24'38" West, 39.00 feet to a point and the true POINT OF BEGINNING;

Thence running, North 00°35'22" East, 25.00 feet to a point;  
 Thence, South 89°24'38" East, 40.00 feet to a point;  
 Thence, North 00°35'22" East, 20.00 feet to a point;  
 Thence, North 70°30'33" East, 57.10 feet to a point;  
 Thence, South 19°29'27" East, 30.12 feet to a point;  
 Thence, South 00°41'15" West, 15.09 feet to a point;  
 Thence, South 66°41'04" West, 7.96 feet to a point;  
 Thence, North 89°24'38" West, 42.67 feet to a point;  
 Thence, South 00°35'22" West, 18.00 feet to a point;  
 Thence, North 89°24'38" West, 54.00 feet to a point and the true POINT OF BEGINNING.

Said tract contains 0.0815 acres (3,550 square feet), more or less.

**30' INGRESS-EGRESS AND UTILITY EASEMENT**

Together with a 30' Ingress-Egress & Utility Easement lying and being in Land Lot 325 of the 1st District, 1st Section, Fulton County, Georgia, and being more particularly described by the following centerline data:

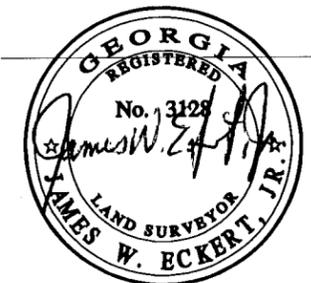
To find the Point of Beginning, COMMENCE at the Land

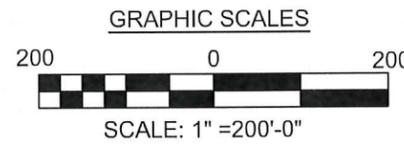
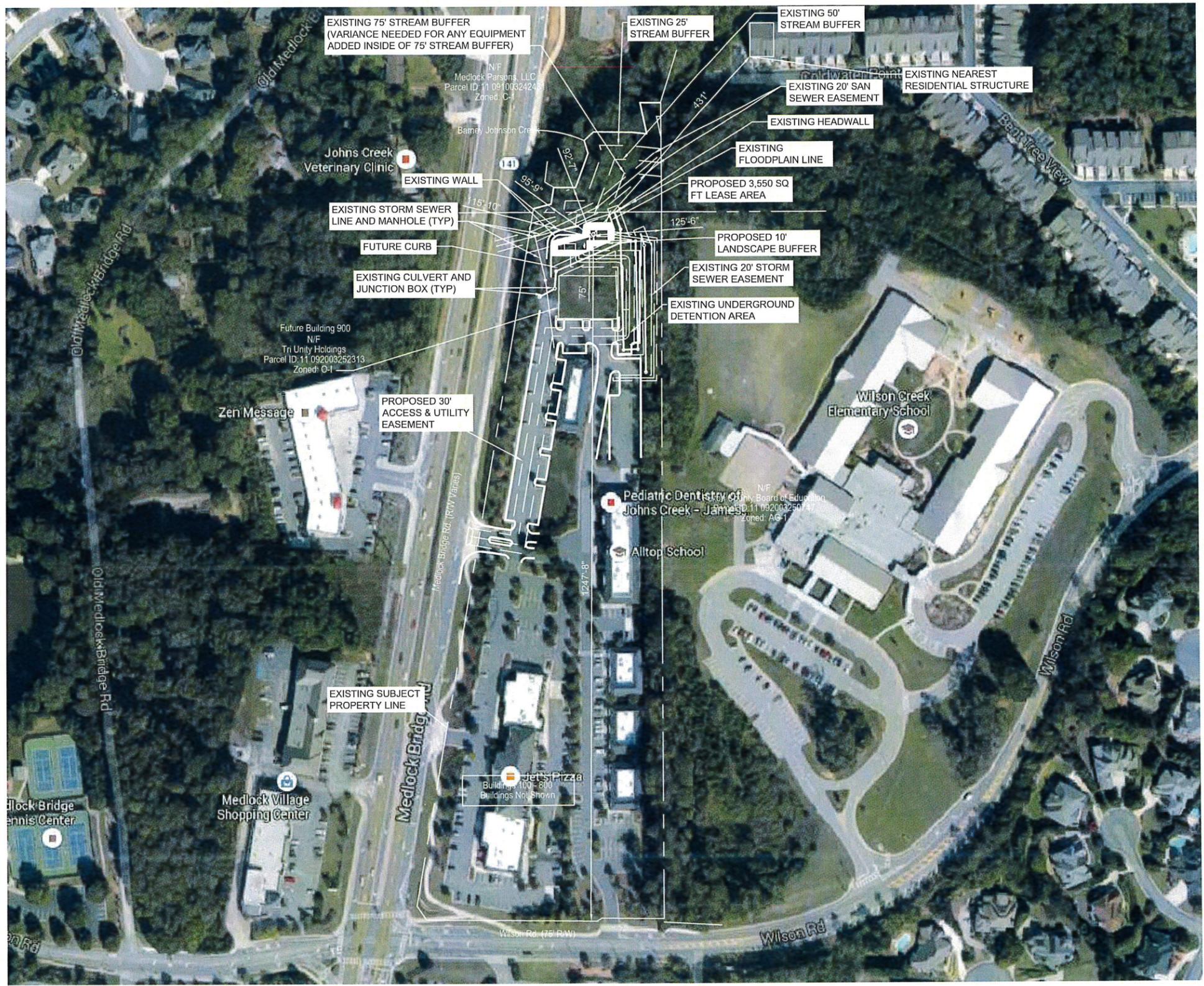
RELEASE DESCRIPTION	
DATE:	

**civil survey**  
 civilsurvey, inc.  
 93 Holly Grove Road  
 Griffin, Georgia 30224  
 404.925.8774  
 DRAWN BY: [initials] CHECKED BY: [initials] APPROVED BY: [initials]

Easement Survey for  
**SKYWAY TOWERS, LLC**  
 3637 Madaca Lane  
 Tampa, Florida 33618

Date: 22 February 2016
Land District: 1st
Land Section: 1st
Land Lot: 324 and 325
City: (unincorporated)
County: Fulton
State: Georgia
csi Project Number: 2015.019
"Old Medlock" GA-01172





AERIAL SITE PLAN  
SCALE: 1" = 200'-0"

PREPARED FOR:



A&E FIRM:  
**TOWERSOURCE**  
1875 OLD ALABAMA ROAD, SUITE 1008  
ROSWELL, GA 30076  
TEL 678-990-2338  
FAX 678-990-2342  
ENGINEER: ELIZABETH B. USHER

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A&E PROJECT #:	--
DRAWN BY:	JBE
CHECKED BY:	EBU

REVISIONS		
NO.	DATE	DESCRIPTION
A	09/16/15	ISSUED FOR REVIEW
0	11/16/15	ISSUED FOR CONSTRUCTION
1	02/08/16	MOVED TOWER LOCATION
2	09/07/16	UPDATED TOWER HEIGHT
3	09/15/16	REVISED COMPOUND SIZE



VERIZON WIRELESS SITE NAME:  
**OLD MEDLOCK**

TOWER OWNER / SITE NUMBER:  
VERIZON

DESIGN TYPE:  
BTS

SHEET TITLE:  
AERIAL MAP

DRAWING NO. <b>A1</b>	REVISION NO. <b>2</b>
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**GENERAL NOTES:**

- CONTRACTOR IS TO COMPLY WITH THE REQUEST FOR QUOTATION (RFQ) AND CONSTRUCTION SPECIFICATIONS (LATEST REVISION) & BUILDING MANUFACTURER'S DRAWINGS, ALL PREVIOUSLY PROVIDED BY FORESITE TOWERS.
- DIMENSIONS TO ALL EXISTING SITE FEATURES SHALL BE FIELD VERIFIED BY THE CONTRACTOR & ANY DISCREPANCIES SHALL BE REPORTED TO THE OWNER'S REPRESENTATIVE.
- THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF EXISTING UTILITIES, PIPES, OR ANY OTHER SUBSURFACE STRUCTURES PRIOR TO COMMENCING WORK. THE CONTRACTOR SHALL CONTACT THE LOCAL UTILITY LOCATING SERVICE 48 HRS PRIOR TO DIGGING, DRILLING, OR BLASTING.
- FORESITE TOWER'S CONSTRUCTION PROJECT MANAGER OR FORESITE TOWER'S REPRESENTATIVE SHALL BE NOTIFIED IN WRITING OF ANY CONDITIONS THAT VARY FROM THE PLANS. THE CONTRACTOR'S WORK SHALL NOT VARY FROM THE PLANS WITHOUT THE EXPRESSED WRITTEN APPROVAL OF FORESITE TOWER'S CONSTRUCTION PROJECT MANAGER OR FORESITE TOWER'S REPRESENTATIVE.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO EXAMINE ALL DRAWINGS & SPECIFICATIONS AND TO COORDINATE HIS WORK WITH THE WORK OF ALL OTHERS TO ENSURE THAT WORK PROGRESSION IS NOT INTERRUPTED.
- CONTRACTOR SHALL COORDINATE THE CONSTRUCTION SCHEDULE WITH THE PROPERTY OWNER AS TO AVOID ANY INTERRUPTIONS WITH THE PROPERTY OWNER'S OPERATIONS.
- CONTRACTOR SHALL KEEP THE PROJECT SITE FREE FROM ACCUMULATION OF WASTE MATERIALS & RUBBISH AT ALL TIMES DURING THE CONSTRUCTION PERIOD, & SHALL REMOVE ALL WASTE MATERIALS & RUBBISH FROM THE PROJECT SITE AT THE COMPLETION OF WORK, EXCEPT THOSE SPECIFICALLY REQUIRED BY THE CONTRACT DOCUMENTS TO BE LEFT FOR THE OWNER'S MAINTENANCE.
- THE CONTRACTOR SHALL RESTORE ALL PROPERTY TO ITS PRE-CONSTRUCTION CONDITION TO THE OWNER'S SATISFACTION.
- THE CONTRACTOR SHALL PROTECT EXISTING PROPERTY LINE MONUMENTATION. ANY DISTURBED, DAMAGED, OR REMOVAL OF MONUMENTATION SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE UNDER THE SUPERVISION OF A REGISTERED LAND SURVEYOR.
- DAMAGE TO EXISTING STRUCTURES & UTILITIES SHALL BE REPAIRED OR REPLACED TO OWNER'S SATISFACTION AT THE CONTRACTOR'S EXPENSE. MAINTAIN FLOW FOR ALL UTILITIES.
- ALL UTILITY CONNECTIONS TO EXISTING SYSTEMS SHALL BE COORDINATED WITH THE OWNER OR OWNER'S REPRESENTATIVE AND THE UTILITY COMPANY PRIOR TO EACH CONNECTION.
- UNLESS OTHERWISE INDICATED, FORESITE TOWER SHALL OBTAIN & PROVIDE CONSTRUCTION PERMITS. THE CONTRACTOR SHALL OBTAIN, AT HIS OWN EXPENSE, ALL REQUIRED LOCAL, CITY, STATE AND/OR COUNTY CONSTRUCTION LICENSES. UPON COMPLETION OF THE WORK, THE CONTRACTOR SHALL APPLY FOR & PROVIDE A CERTIFICATE OF OCCUPANCY.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR DEWATERING AND THE MAINTENANCE OF SURFACE FOR CONSTRUCTION.
- CONTRACTOR SHALL COMPLY WITH ALL LOCAL, STATE, & FEDERAL REGULATIONS.
- CONSTRUCTION WASTE MAY NEITHER BE BURNED NOR BURIED AND MUST BE TAKEN TO AN APPROVED LANDFILL.
- SECURITY TO THE SITE SHALL BE MAINTAINED AT ALL TIMES.
- CONTRACTOR IS RESPONSIBLE FOR THE CONDITION OF THE SHELTER DURING AND AFTER CONSTRUCTION. THE EQUIPMENT SHELTER SHALL NOT BE USED FOR STORAGE OF TOOLS, CONSTRUCTION MATERIALS OR EQUIPMENT. CONTRACTOR SHALL ENSURE THE SHELTER IS CLEANED AT CONCLUSION OF CONSTRUCTION AND THE FLOOR CLEANED, WAXED, AND BUFFED TO SHINE.
- FOR GREENFIELD/NEW TOWERS SITES, CONTRACTOR IS RESPONSIBLE FOR ENSURING THE TOWER LIGHTS ARE MONITORED MORNING AND NIGHT EACH 24 HRS FROM THE TIME THE TOWER IS TOPPED OUT UNTIL SITE HAS ALARMS CONNECTED TO THE OPERATIONS SWITCH OR NOC. CONTRACTOR TO NOTIFY PROJECT MANAGER AT THE TIME THE TOWER IS TOPPED OUT TO FORWARD NOTIFICATION TO FORESITE REGULATORY AND FCC/FAA.

**STRUCTURAL STEEL NOTES:**

- STRUCTURAL STEEL SHALL CONFORM TO THE LATEST EDITION OF THE AISC "SPECIFICATION FOR THE DESIGN, FABRICATION & ERECTION OF STRUCTURAL STEEL FOR BUILDINGS".
- ALL INTERIOR STRUCTURAL STEEL SHALL BE FINISHED WITH ONE COAT FABRICATOR'S NON-LEAD, RED OXIDE PRIMER. PRIMING SHALL BE PERFORMED AFTER SHOP FABRICATION TO THE GREATEST EXTENT POSSIBLE. ALL DINGS, SCRAPES, MARS, & WELDS IN THE PRIMED AREAS SHALL BE REPAIRED BY FIELD TOUCH-UP PRIOR TO COMPLETION OF THE WORK.
- ALL EXTERIOR STRUCTURAL STEEL SHALL BE GALVANIZED IN ACCORDANCE WITH THE SPECIFICATION ASTM A123 UNLESS OTHERWISE NOTED. GALVANIZING SHALL BE PERFORMED AFTER SHOP FABRICATION TO THE GREATEST EXTENT POSSIBLE. ALL DINGS, SCRAPES, MARS, & WELDS SHALL BE REPAIRED BY FIELD TOUCH-UP PRIOR TO COMPLETION OF THE WORK.
- HOLES SHALL NOT BE PLACED THROUGH STRUCTURAL STEEL MEMBERS EXCEPT AS SHOWN AND DETAILED ON THE DRAWINGS.
- CONNECTIONS:
  - ALL WELDING SHALL BE DONE USING E70XX ELECTRODES AND SHALL CONFORM TO AISC AND AWS D1.1. WHERE FILLET WELD SIZES ARE NOT SHOWN, PROVIDE THE MINIMUM SIZE PER TABLE J2.4 IN THE AISC "MANUAL OF STEEL CONSTRUCTION", 13th EDITION. AT THE COMPLETION OF WELDING, ALL DAMAGE TO GALVANIZED COATING SHALL BE REPAIRED.
  - BOLTED CONNECTIONS SHALL USE BEARING TYPE GALVANIZED ASTM A325 BOLTS (3/4") AND SHALL HAVE A MINIMUM OF TWO BOLTS UNLESS NOTED OTHERWISE.
  - NON-STRUCTURAL CONNECTIONS FOR STEEL GRATING MAY USE 5/8" DIA GALVANIZED ASTM A307 BOLTS UNLESS NOTED OTHERWISE.
  - CONNECTION DESIGN BY FABRICATOR WILL BE SUBJECT TO REVIEW AND APPROVAL BY ENGINEER.

**CONCRETE NOTES:**

- DESIGN & CONSTRUCTION OF ALL CONCRETE ELEMENTS SHALL CONFORM TO THE LATEST EDITION OF THE FOLLOWING APPLICABLE CODES: ACI 301 "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS"; ACI 318 "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE".
- MIX DESIGN SHALL BE APPROVED BY OWNER'S REPRESENTATIVE PRIOR TO PLACING CONCRETE.
- CONCRETE SHALL BE NORMAL WEIGHT, 6% AIR ENTRAINED (±1.5%) WITH A MAXIMUM 4" SLUMP AND A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 3000 PSI UNLESS NOTED OTHERWISE.
- CONCRETE MATERIALS:
 

PORTLAND CEMENT	ASTM C 150, TYPE I
REINFORCEMENT	ASTM A 185
NORMAL WEIGHT AGGREGATE	ATSM C 33
WATER	POTABLE
ADMIXTURES	NON-CHLORIDE
- REINFORCING DETAILS SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF ACI 315.
- REINFORCING STEEL SHALL CONFORM TO ASTM A615, GRADE 60, DEFORMED, UNLESS NOTED OTHERWISE. WWF SHALL CONFORM TO ASTM A185 UNLESS NOTED OTHERWISE. SPLICES SHALL BE CLASS "B" AND HOOKS SHALL BE ASTM STANDARD UNLESS NOTED OTHERWISE.
- MINIMUM COVER FOR REINFORCING STEEL:
 

CONCRETE CAST AGAINST EARTH	3 IN
EXPOSED CONCRETE	#6 & LARGER - 2 IN, #5 & SMALLER - 1 1/2 IN
NON-EXPOSED SLAB & WALL	3/4 IN
NON-EXPOSED BEAMS & COLUMNS	NON-CHLORIDE
- A 3/4" CHAMFER SHALL BE PROVIDED AT ALL EXPOSED EDGES OF CONCRETE IN ACCORDANCE WITH ACI 301, SECTION 4.2.4.
- INSTALLATION OF CONCRETE EXPANSION/WEDGE ANCHOR SHALL BE PER MANUFACTURER'S RECOMMENDATIONS. NO REINFORCING SHALL BE CUT WITHOUT ENGINEER'S APPROVAL.
- CURING COMPOUNDS SHALL CONFORM TO ASTM C 309.
- ADMIXTURES SHALL CONFORM TO THE APPROPRIATE ASTM STANDARD AS REFERENCED IN ACI 301.
- DO NOT WELD OR TACK WELD REINFORCING STEEL.
- ALL PENETRATIONS SHALL BE IN PLACE PRIOR TO CONCRETE PLACEMENT.
- REINFORCEMENT SHALL BE COLD BENT WHENEVER BENDING IS REQUIRED.
- CONCRETE SHALL NOT BE PLACED IN WATER, ICE, OR ON FROZEN GROUND.
- DO NOT ALLOW CONCRETE SUBBASE TO FREEZE DURING CONCRETE CURING AND SETTING PERIOD.
- FOR COLD WEATHER & HOT WEATHER PLACEMENT, CONFORM TO APPLICABLE ACI CODES AND RECOMMENDATIONS.

**LEGEND**

- X — FENCE
- 550 — CONTOUR LINE
- — — PROPERTY LINE / ROW
- — — LEASE AREA
- — — EASEMENT
- DISCONNECT SWITCH
- Ⓜ METER
- ⌋ CIRCUIT BREAKER
- ⊗ CODED NOTE NUMBER
- Ⓧ CHEMICAL GROUND ROD
- ⊗ GROUND ROD
- ⊗ GROUND ROD WITH INSPECTION SLEEVE
- CADWELD TYPE CONNECTION
- COMPRESSION TYPE CONNECTION
- G — GROUND WIRE

PREPARED FOR:



A&E FIRM:  
**TOWERSOURCE**  
 1875 OLD ALABAMA ROAD, SUITE 1008  
 ROSWELL, GA 30076  
 TEL 678-990-2338  
 FAX 678-990-2342  
 ENGINEER: ELIZABETH B. USHER

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A&E PROJECT #:	--
DRAWN BY:	JBE
CHECKED BY:	EBU

REVISIONS		
NO.	DATE	DESCRIPTION
A	09/16/15	ISSUED FOR REVIEW
0	11/16/15	ISSUED FOR CONSTRUCTION
1	02/09/16	MOVED TOWER LOCATION
2	09/07/16	UPDATED TOWER HEIGHT
3	09/15/16	REVISED COMPOUND SIZE



VERIZON WIRELESS SITE NAME:  
**OLD MEDLOCK**

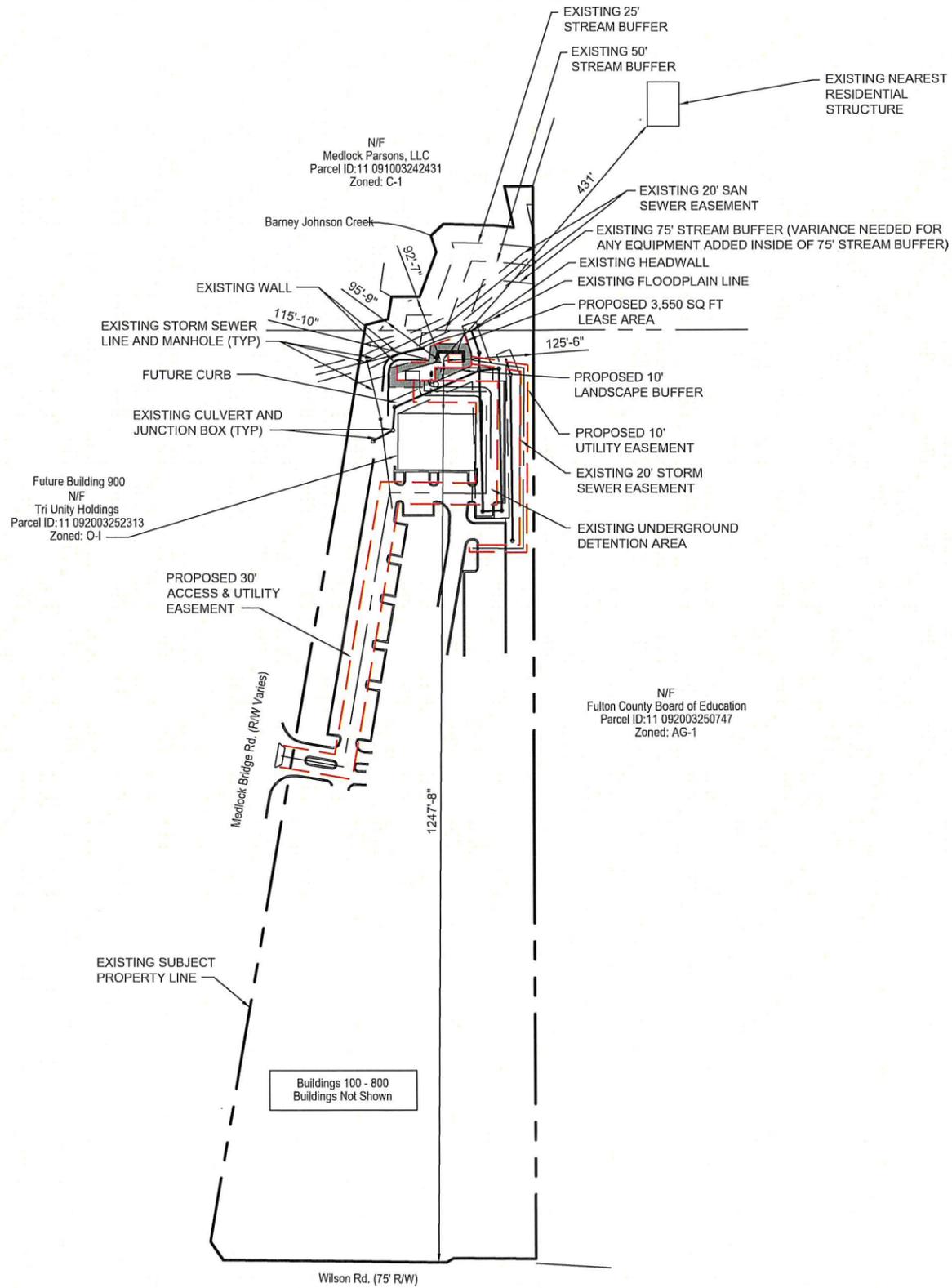
TOWER OWNER / SITE NUMBER:  
 VERIZON

DESIGN TYPE:  
 BTS

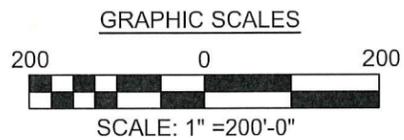
SHEET TITLE:  
 GENERAL NOTES

DRAWING NO. <b>C1</b>	REVISION NO. <b>2</b>
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TOTAL DISTURBED AREA:  
37,163 SQ FT  
.853 ACRES



OVERALL SITE PLAN  
SCALE: 1" = 200'-0"



PREPARED FOR:

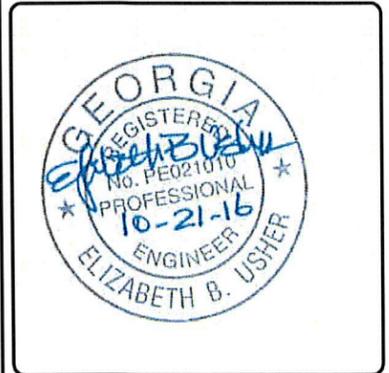


A&E FIRM:  
**TOWERSOURCE**  
1875 OLD ALABAMA ROAD, SUITE 1008  
ROSWELL, GA 30076  
TEL 678-990-2338  
FAX 678-990-2342  
ENGINEER: ELIZABETH B. USHER

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CHECKED BY:	EBU

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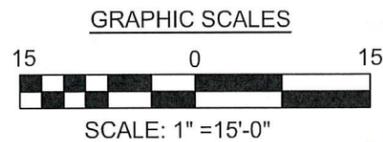
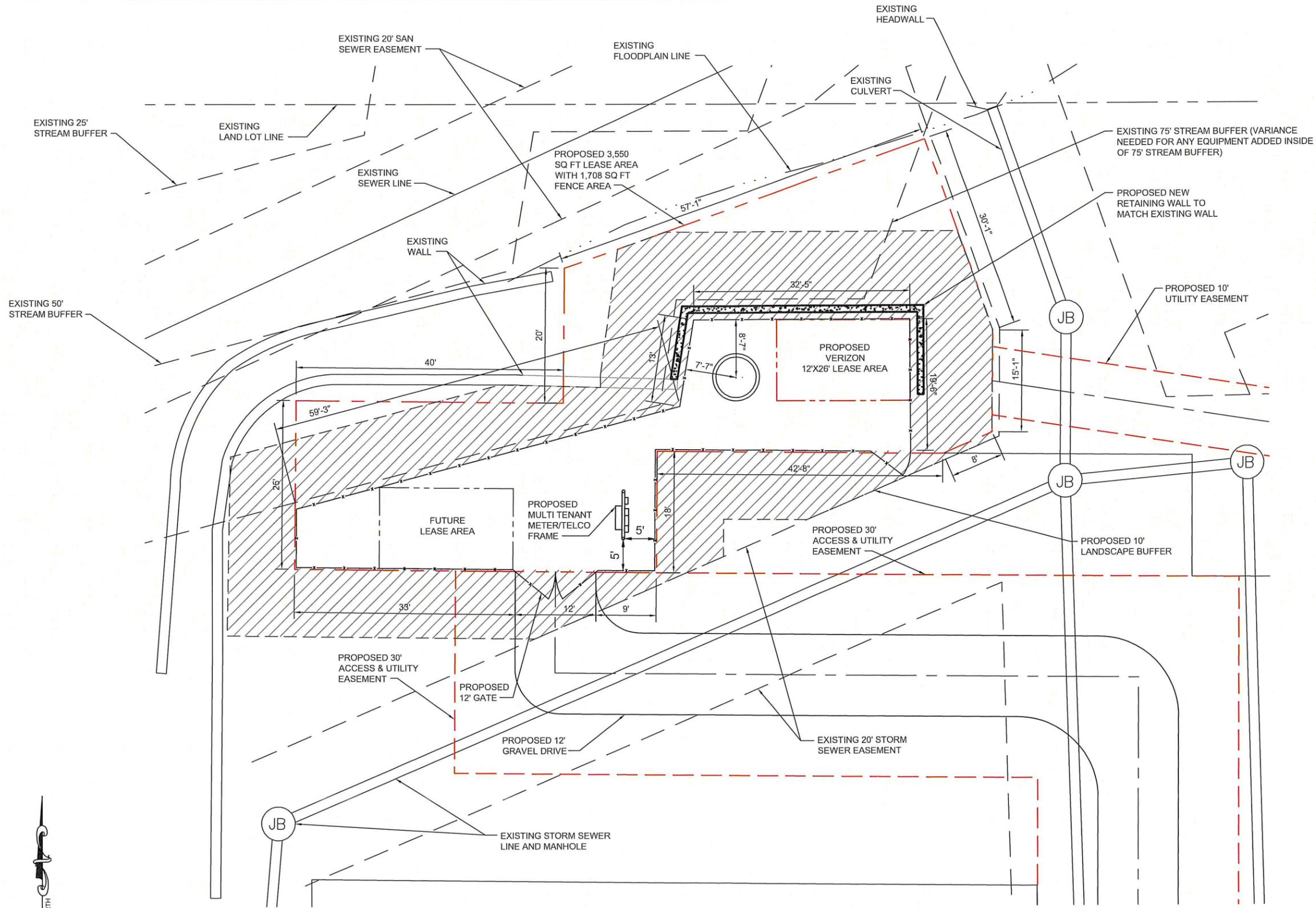
VERIZON WIRELESS SITE NAME:  
**OLD MEDLOCK**

TOWER OWNER / SITE NUMBER:  
VERIZON

DESIGN TYPE:  
BTS

SHEET TITLE:  
**OVERALL SITE PLAN**

DRAWING NO. <b>C2</b>	REVISION NO. <b>2</b>
--------------------------	--------------------------



DETAILED SITE PLAN  
SCALE: 1" = 15'-0"

PREPARED FOR:



3637 MADACA LANE  
TAMPA, FL 33618

A&E FIRM:  
**TOWERSOURCE**  
1875 OLD ALABAMA ROAD, SUITE 1008  
ROSWELL, GA 30076  
TEL 678-990-2338  
FAX 678-990-2342  
ENGINEER: ELIZABETH B. USHER

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CHECKED BY:	EBU

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3	09/15/16	REVISED COMPOUND SIZE



VERIZON WIRELESS SITE NAME:

**OLD MEDLOCK**

TOWER OWNER / SITE NUMBER:

VERIZON

DESIGN TYPE:

BTS

SHEET TITLE:

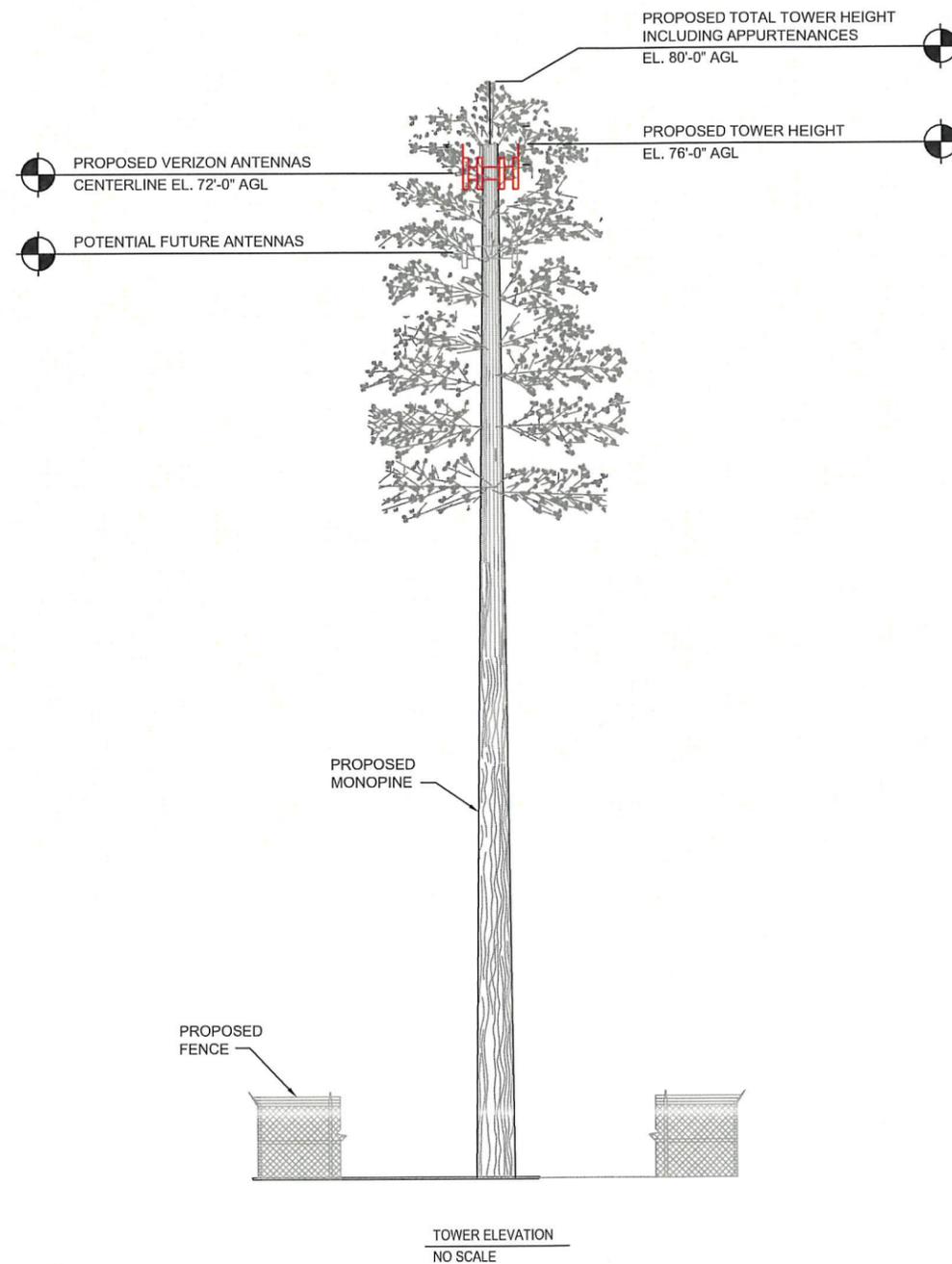
DETAILED SITE PLAN

DRAWING NO.

**C3**

REVISION NO.

**2**



NOTE:  
 - TOWER AND FOUNDATION DESIGN / CHECK PERFORMED BY OTHERS. (MANUFACTURER)  
 - THIS CONSTRUCTION DOCUMENT MUST BE ACCOMPANIED BY A SEALED & SIGNED STRUCTURAL ASSESSMENT/ANALYSIS REVIEW MADE BY A LICENSED ENGINEER.

PREPARED FOR:



A&E FIRM:  
**TOWERSOURCE**  
 1875 OLD ALABAMA ROAD, SUITE 1008  
 ROSWELL, GA 30076  
 TEL 678-990-2338  
 FAX 678-990-2342  
 ENGINEER: ELIZABETH B. USHER

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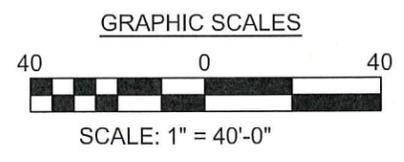
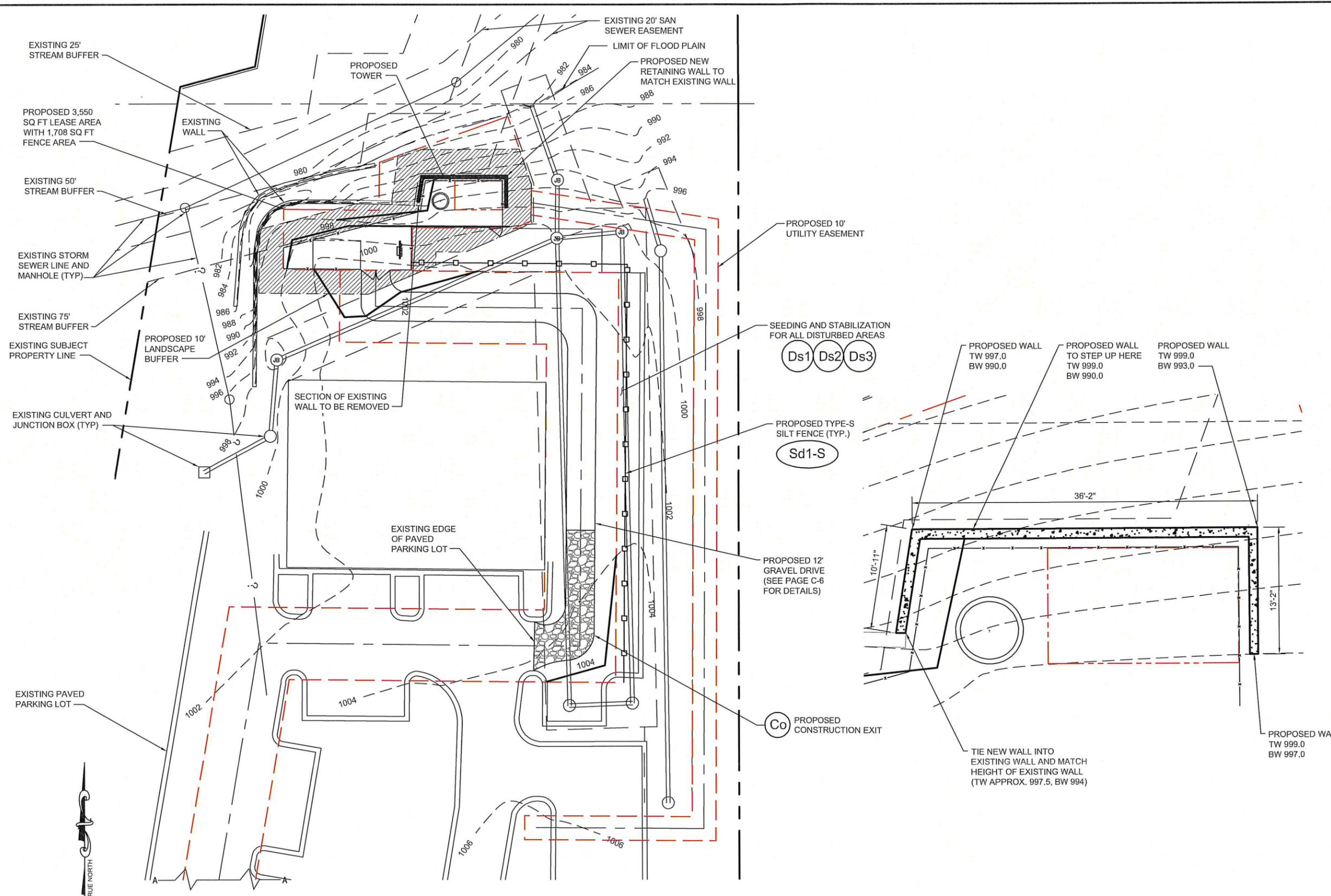
VERIZON WIRELESS SITE NAME:  
**OLD MEDLOCK**

TOWER OWNER / SITE NUMBER:  
 VERIZON

DESIGN TYPE:  
 BTS

SHEET TITLE:  
 TOWER ELEVATION

DRAWING NO. <b>C4</b>	REVISION NO. <b>2</b>
--------------------------	--------------------------



GRADING AND EROSION CONTROL PLAN  
SCALE: 1" = 40'-0"

PREPARED FOR:

**SKYWAY TOWERS**  
3637 MADACA LANE  
TAMPA, FL 33618

A&E FIRM:

**TOWERSOURCE**  
1875 OLD ALABAMA ROAD, SUITE 1008  
ROSWELL, GA 30076  
TEL 678-990-2338  
FAX 678-990-2342  
ENGINEER: ELIZABETH B. USHER

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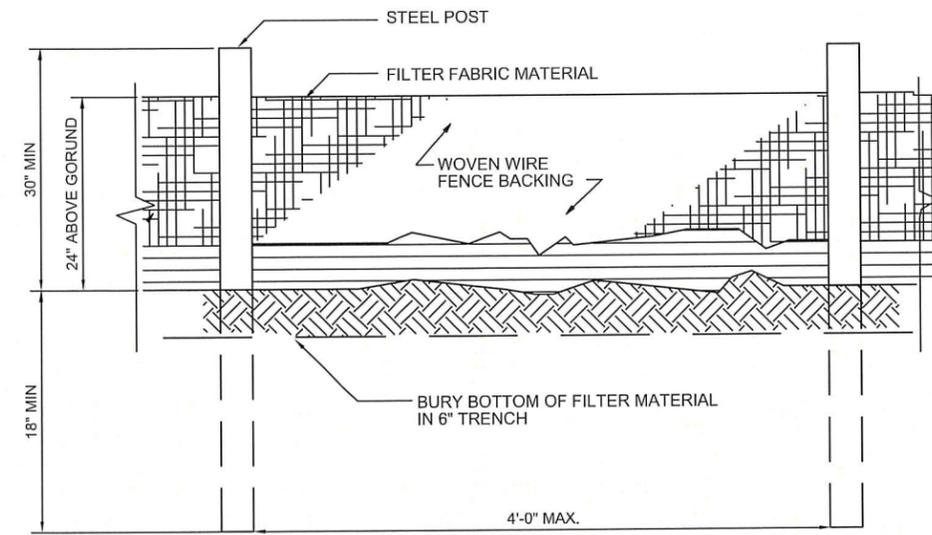
VERIZON WIRELESS SITE NAME:  
**OLD MEDLOCK**

TOWER OWNER / SITE NUMBER:  
VERIZON

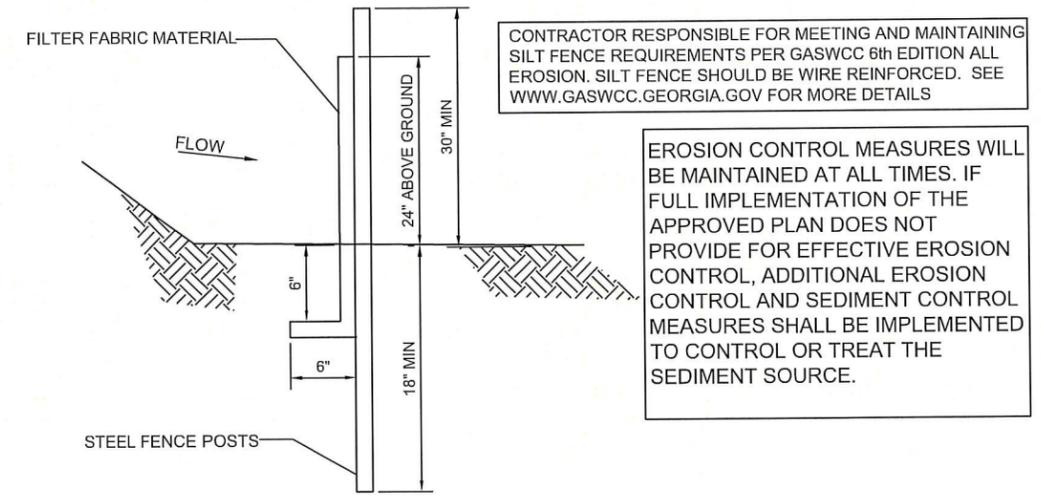
DESIGN TYPE:  
BTS

SHEET TITLE:  
GRADING & EROSION CONTROL PLAN

DRAWING NO. <b>C5</b>	REVISION NO. <b>2</b>
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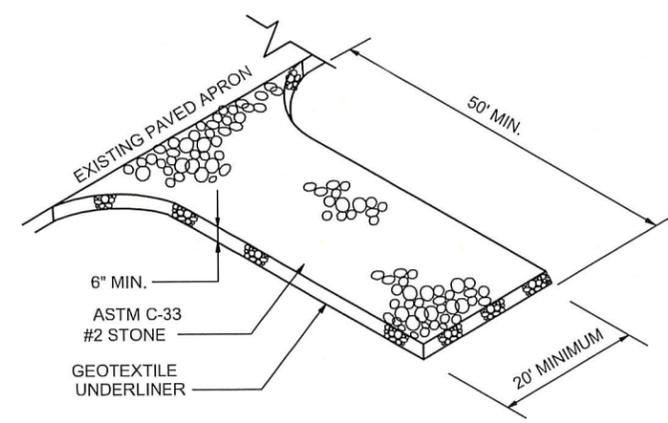
NOTE: USE 36\"/>



CONTRACTOR RESPONSIBLE FOR MEETING AND MAINTAINING SILT FENCE REQUIREMENTS PER GASWCC 6th EDITION ALL EROSION. SILT FENCE SHOULD BE WIRE REINFORCED. SEE WWW.GASWCC.GEORGIA.GOV FOR MORE DETAILS

EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION CONTROL AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE.

**Sd1-S** SILT FENCE, TYPE-S



**Co** CONSTRUCTION EXIT

PREPARED FOR:



A&E FIRM:  
**TOWERSOURCE**  
 1875 OLD ALABAMA ROAD, SUITE 1008  
 ROSWELL, GA 30076  
 TEL 678-990-2338  
 FAX 678-990-2342  
 ENGINEER: ELIZABETH B. USHER

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CHECKED BY:	EBU

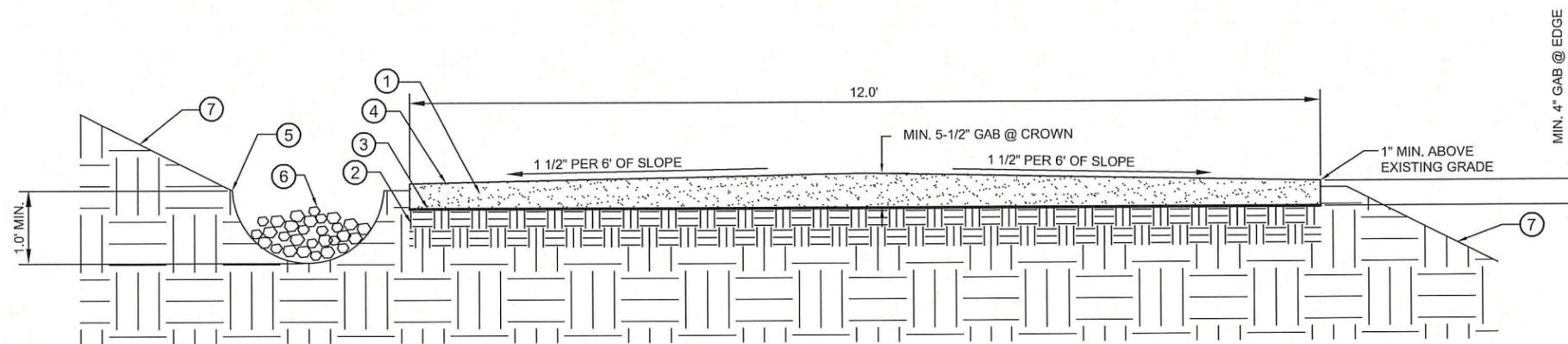
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VERIZON WIRELESS SITE NAME:  
**OLD MEDLOCK**  
 TOWER OWNER / SITE NUMBER:  
 VERIZON  
 DESIGN TYPE:  
 BTS

SHEET TITLE:  
**GRADING & EROSION CONTROL DETAILS**

DRAWING NO. <b>C5A</b>	REVISION NO. <b>2</b>
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**TYPICAL GRAVEL ROAD CROSS SECTION**

\*\* CONTRACTOR SHALL BE RESPONSIBLE FOR CLEARING & GRUBBING THE CONSTRUCTION SITE AND ROADWAY AREAS. THE CONTRACTOR SHALL COMPLY, WHEN NECESSARY, WITH THE RECOMMENDATIONS CONTAINED WITHIN THE GEOTECHNICAL REPORT PREPARED FOR THIS SITE FOR SITE WORK PREPARATION & FOUNDATION WORK. \*\*

1. REMOVE ALL ORGANIC MATERIAL. (STUMPS, ROOTS, LEAVES, ETC.) A MIN 3" OF SOIL TO BE REMOVED.
2. LEVEL AND COMPACT SUBGRADE TO A 95% COMPACTION.
3. INSTALL GEOTEXTILE FABRIC (AND/OR OTHER STABILIZATION METHOD) OVER SUBGRADE TO STABILIZE SUBGRADE WHEN SOIL CONDITIONS ARE UNSTABLE.
4. INSTALL MIN. 4" OF GRADED AGGREGATE BASE (GAB/CRUSHER RUN) WITH 5-1/2" AT CROWN. GAB SHALL HAVE A 1-1/2" TO 6" SLOPE FROM CROWN. ALL GAB SHALL BE COMPACTED TO A 95% COMPACTION AT A MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D-1557 OR WITHIN PLUS OR MINUS 3% OF OPTIMUM MOISTURE CONTENT.
5. DRAINAGE DITCH DEPTH TO BE A MIN. OF 1' BELOW ROAD SURFACE.
6. A RIP RAP (DOT GRADE) CHECK DAM TO BE INSTALLED IN DRAINAGE DITCH AT EVERY 2' OF ELEVATION CHANGE.
7. ALL CUT AND FILL SLOPES SHALL BE 2 HORIZONTAL TO 1 VERTICAL MAXIMUM. SLOPES SHALL BE STABILIZED WITH SEED (SEE NOTE DS2 & DS3).

PREPARED FOR:

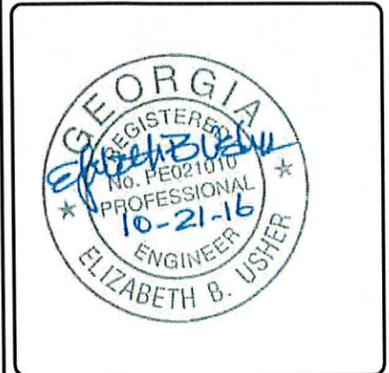


A&E FIRM:  
**TOWERSOURCE**  
 1875 OLD ALABAMA ROAD, SUITE 1008  
 ROSWELL, GA 30076  
 TEL 678-990-2338  
 FAX 678-990-2342  
 ENGINEER: ELIZABETH B. USHER

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CHECKED BY:	EBU

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VERIZON WIRELESS SITE NAME:  
**OLD MEDLOCK**

TOWER OWNER / SITE NUMBER:  
 VERIZON

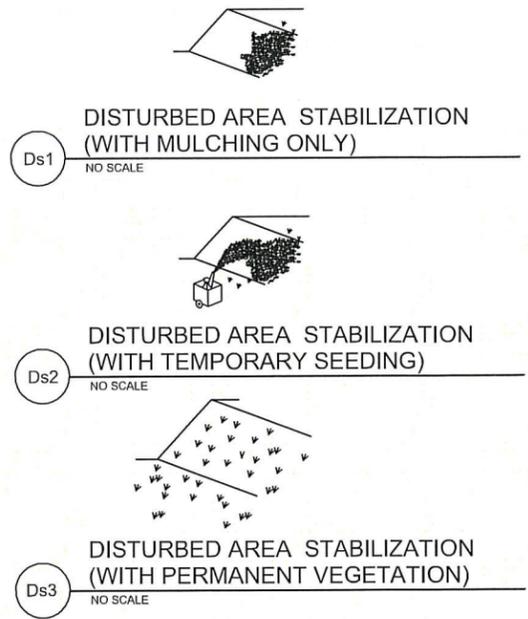
DESIGN TYPE:  
 BTS

SHEET TITLE:  
 ROAD PROFILE  
 DETAILS

DRAWING NO. <b>C6</b>	REVISION NO. <b>2</b>
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**EXCAVATION & GRADING NOTES:**

- ALL EXCAVATIONS ON WHICH CONCRETE IS TO BE PLACED SHALL BE SUBSTANTIALLY HORIZONTAL ON UNDISTURBED AND UNFROZEN SOIL AND BE FREE FROM LOOSE MATERIAL AND EXCESS GROUNDWATER. DEWATERING FOR EXCESS GROUNDWATER SHALL BE PROVIDED IF REQUIRED.
- CONCRETE FOUNDATIONS SHALL NOT BE PLACED ON ORGANIC MATERIAL. IF SOUND SOIL IS NOT REACHED AT THE DESIGNATED EXCAVATION DEPTH, THE UNSATISFACTORY SOIL SHALL BE EXCAVATED TO ITS FULL DEPTH AND EITHER BE REPLACED WITH MECHANICALLY COMPACTED GRANULAR MATERIAL OR THE EXCAVATION BE FILLED WITH CONCRETE OF THE SAME QUALITY SPECIFIED FOR THE FOUNDATION.
- ANY EXCAVATION OVER THE REQUIRED DEPTH SHALL BE FILLED WITH EITHER MECHANICALLY COMPACTED GRANULAR MATERIAL OR CONCRETE OF THE SAME QUALITY SPECIFIED FOR THE FOUNDATION. CRUSHED STONE MAY BE USED TO STABILIZE THE BOTTOM OF THE EXCAVATION. STONE, IF USED, SHALL NOT BE USED AS COMPILING CONCRETE THICKNESS.
- AFTER COMPLETION OF THE FOUNDATION AND OTHER CONSTRUCTION BELOW GRADE, AND BEFORE BACKFILLING, ALL EXCAVATIONS SHALL BE CLEAN OF UNSUITABLE MATERIAL SUCH AS VEGETATION, TRASH, DEBRIS, AND SO FORTH.
- BACKFILLING SHALL:
  - USE APPROVED MATERIALS CONSISTING OF EARTH, LOAM, SANDY CLAY, SAND AND GRAVEL, OR SOFT SHALE;
  - BE FREE FROM CLODS OR STONES OVER 2-1/2" MAXIMUM DIMENSIONS
  - BE PLACED IN 6" LAYERS AND COMPACTED TO 95% STANDARD PROCTOR EXCEPT IN GRASSED/LANDSCAPED AREAS, WHERE 90% STANDARD PROCTOR IS REQUIRED.
- FILL PREPARATION: REMOVE ALL VEGETATION, TOPSOIL, DEBRIS, WET AND UNSATISFACTORY SOIL MATERIALS, OBSTRUCTIONS, AND DELETERIOUS MATERIALS FROM GROUND SURFACE PRIOR TO PLACING FILLS. PLOW, STRIP, OR BREAK UP SLOPED SURFACES STEEPER THAN THAN 1 VERTICAL TO 4 HORIZONTAL SO FILL MATERIAL WILL BOND WITH EXISTING SURFACE. WHEN SUBGRADE OR EXISTING GROUND SURFACE TO RECEIVE FILL HAS A DENSITY LESS THAN THAT REQUIRED FOR FILL, BREAK UP GROUND SURFACE TO DEPTH REQUIRED, PULVERIZE, MOISTURE-CONDITION OR AERATE SOIL AND RECOMPACT TO REQUIRED DENSITY.
- PROTECT EXISTING GRAVEL SURFACING AND SUBGRADE IN AREAS WHERE EQUIPMENT LOADS WILL OPERATE. USE PLANKING OR OTHER SUITABLE MATERIALS DESIGNED TO SPREAD EQUIPMENT LOADS. REPAIR DAMAGE TO EXISTING GRAVEL SURFACING OR SUBGRADE WHERE SUCH DAMAGE IS DUE TO THE CONTRACTOR'S OPERATIONS. DAMAGED GRAVEL SURFACING SHALL BE RESTORED TO MATCH THE ADJACENT UNDAUNAGED GRAVEL SURFACING AND SHALL BE OF THE SAME THICKNESS.
- REPLACE EXISTING GRAVEL SURFACING ON AREAS FROM WHICH GRAVEL SURFACING IS REMOVED DURING CONSTRUCTION OPERATIONS. GRAVEL SURFACING SHALL BE REPLACED TO MATCH EXISTING ADJACENT GRAVEL SURFACING AND SHALL BE OF THE SAME THICKNESS. SURFACES OF GRAVEL SURFACING SHALL BE FREE FROM CORRUGATIONS AND WAVES. EXISTING GRAVEL SURFACING MAY BE EXCAVATED SEPARATELY AND REUSED IF INJURIOUS AMOUNTS OF EARTH, ORGANIC MATTER, OR OTHER DELETERIOUS MATERIALS ARE REMOVED PRIOR TO REUSE. FURNISH ALL ADDITIONAL GRAVEL RESURFACING MATERIAL AS REQUIRED. BEFORE GRAVEL SURFACING IS REPLACED, SUBGRADE SHALL BE GRADED TO CONFORM TO REQUIRED SUBGRADE ELEVATIONS, AND LOOSE OR DISTURBED MATERIALS SHALL BE THOROUGHLY COMPACTED. DEPRESSIONS IN THE SUBGRADE SHALL BE FILLED AND COMPACTED WITH APPROVED SELECTED MATERIAL. GRAVEL SURFACING MATERIAL MAY BE USED FOR FILLING DEPRESSIONS IN THE SUBGRADE, SUBJECT TO ENGINEER'S APPROVAL.
- DAMAGE TO EXISTING STRUCTURES AND UTILITIES RESULTING FROM CONTRACTOR'S NEGLIGENCE SHALL BE REPAIRED / REPLACED TO OWNER'S SATISFACTION AT CONTRACTOR'S EXPENSE.
- CONTRACTOR SHALL COORDINATE THE CONSTRUCTION SCHEDULE WITH PROPERTY OWNER SO AS TO AVOID INTERRUPTIONS TO PROPERTY OWNER'S OPERATIONS.
- ENSURE POSITIVE DRAINAGE DURING AND AFTER COMPLETION OF CONSTRUCTION.
- ALL CUT AND FILL SLOPES SHALL BE 2 HORIZONTAL TO 1 VERTICAL MAXIMUM.
- REMOVE ALL ORGANICS, ROCKS GREATER THAN 3", UNUSED FILL AND OTHER DEBRIS TO AN AREA OFF SITE IN A LEGAL MANNER.



ACTIVITY SCHEDULE	
WORK DESCRIPTION	WORKING DAYS
INSTALLATION OF EROSION CONTROL MEASURES	1-2
CLEARING, GRUBBING, AND GRADING	3-5
MAINTAINING EROSION CONTROL MEASURES	6-8
TEMPORARY GRASSING	9-12
BUILDING CONSTRUCTION	13-19
FINAL LANDSCAPING, GRASSING	20-23
REMOVING EROSION CONTROL MEASURES	24-26

THE INSTALLATION OF EROSION CONTROL MEASURES AND PRACTICES SHALL TAKE PLACE PRIOR TO OR CONCURRENT WITH LAND DISTURBING ACTIVITIES.

**GENERAL EROSION & SEDIMENT CONTROL NOTES:**

- ADDITIONAL EROSION CONTROL MEASURES WILL BE EMPLOYED WHERE DETERMINED NECESSARY BY ACTUAL SITE CONDITIONS.
- PRIOR TO COMMENCING LAND DISTURBANCE ACTIVITY, THE LIMITS OF LAND DISTURBANCE SHALL BE CLEARLY AND ACCURATELY DEMARCATED WITH STAKES, RIBBONS, OR OTHER APPROPRIATE MEANS.
- THE CONSTRUCTION OF THE SITE WILL INITIATE WITH THE INSTALLATION OF EROSION CONTROL MEASURES SUFFICIENT TO CONTROL SEDIMENT DEPOSITS AND EROSION. CONTRACTOR SHALL CALL APPROPRIATE COUNTY FOR AN INSPECTION OF SOIL EROSION CONTROL MEASURES PRIOR TO BEGINNING GRADING ACTIVITY. ALL SEDIMENT CONTROL WILL BE MAINTAINED UNTIL ALL UPSTREAM GROUND WITHIN THE CONSTRUCTION AREA HAS BEEN COMPLETELY STABILIZED.
- THE LOCATION OF SOME OF THE EROSION CONTROL DEVICES MAY HAVE TO BE ALTERED FROM THAT SHOWN ON THE PLANS IF DRAINAGE PATTERNS DURING CONSTRUCTION ARE DIFFERENT FROM THE FINAL PROPOSED DRAINAGE PATTERNS. ANY DIFFICULTY IN CONTROLLING EROSION DURING ANY PHASE OF CONSTRUCTION SHALL BE REPORTED TO THE ENGINEER IMMEDIATELY.
- EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR ELECTIVE EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE.
- THE CONTRACTOR SHALL REMOVE ACCUMULATED SILT WHEN THE SILT IS WITHIN 12" OF THE TOP OF THE SILT FENCE.
- FAILURE TO INSTALL, OPERATE OR MAINTAIN ALL EROSION CONTROL MEASURES WILL RESULT IN ALL CONSTRUCTION BEING STOPPED ON THE JOB SITE UNTIL SUCH MEASURES ARE CORRECTED.
- SILT BARRIERS TO BE PLACED AT DOWNSTREAM TOE OF ALL CUT AND FILL SLOPES.
- ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 7 DAYS SHALL BE STABILIZED WITH SEEDING.
- SEEDING:

**A. SEEDING WITH MULCH (CONVENTIONAL SEEDING ON SLOPES LESS THAN 3:1) (HYDRAULIC SEEDING EQUIPMENT ON SLOPES 3:1 AND STEEPER)**

AGRICULTURAL LIMESTONE	4000 LBS./acre	
FERTILIZER, 5-10-15	1500 lbs./acre	
MULCH STRAW OR HAY	5000 lbs./arce	
SEED SPECIES	APPLICATION RATE/ACRE	PLANNING DATES
HULLED COMMON BERMUDA GRASS	10lbs.	3/1 - 6/15
FESCUE	50lbs.	9/1 -10/31
FESCUE RYE GRASS	50lbs. 50lbs.	11/1 -2/28
HAY MULCH FOR TEMPORARY COVER	5000lbs.	6/15 -8/31
<b>B. TOPDRESSING: APPLY WHEN PLANTS ARE 2 TO 4 INCHES TALL</b>		300 lbs./acre
FERTILIZER (AMMONIUM NITRATE 33.5%)		
<b>C. SECOND-YEAR-FERTILIZER: (5-10-15 OR EQUIVALENT)</b>		800 lbs./acre

**HYDRAULIC SEEDING EQUIPMENT**  
WHEN HYDRAULIC SEEDING AND FERTILIZING EQUIPMENT IS USED, NO GRADING AND SHAPING OR SEEDBED PREPARATION WILL BE REQUIRED. THE FERTILIZER, SEED AND WOOD CELLULOSE FIBER MULCH WILL BE MIXED WITH WATER AND APPLIED IN A SLURRY. ALL SLURRY INGREDIENTS MUST BE COMBINED TO FORM A HOMOGENEOUS MIXTURE, AND SPREAD UNIFORMLY OVER THE AREA WITHIN ONE HOUR AFTER MIXTURE IS MADE. STRAW OR HAY MULCH AND ASPHALT EMULSION WILL BE APPLIED WITH BLOWER-TYPE MULCH SPREADING EQUIPMENT WITHIN 24 HOURS AFTER SEEDING. THE MULCH WILL BE SPREAD UNIFORMLY OVER THE AREA, LEAVING ABOUT 25 PERCENT OF THE GROUND SURFACE EXPOSED.

**CONVENTIONAL SEEDING EQUIPMENT**  
GRADE, SHAPE AND SMOOTH WHERE NEEDED TO PROVIDE FOR SAFE EQUIPMENT OPERATION AT SEEDING TIME AND FOR MAINTENANCE PURPOSES. THE LIME AND FERTILIZER IN DRY FORM WILL BE SPREAD UNIFORMLY OVER THE AREA IMMEDIATELY BEFORE SEEDBED PREPARATION. A SEEDBED WILL BE PREPARED BY SCARIFYING TO A DEPTH OF 1 TO 4 INCHES AS DETERMINED ON SITE. THE SEEDBED MUST BE WELL PULVERIZED, SMOOTHED AND FIRMED. SEEDING WILL BE DONE WITH CULTIPACKER-SEEDER, DRILL, ROTARY SEEDER OR OTHER MECHANICAL OR HAND SEEDER. SEED WILL BE DISTRIBUTED UNIFORMLY OVER A FRESHLY PREPARED SEEDBED AND COVERED LIGHTLY. WITHIN 24 HOURS AFTER SEEDING, STRAW OR HAY MULCH WILL BE SPREAD UNIFORMLY OVER THE AREA, LEAVING ABOUT 25 PERCENT OF THE GROUND SURFACE EXPOSED. MULCH WILL BE SPREAD WITH BLOWER-TYPE MULCH EQUIPMENT OR BY HAND AND ANCHORED IMMEDIATELY AFTER IT IS SPREAD. A DISK HARROW WITH THE DISK SET STRAIGHT OR A SPECIAL PACKER DISK MAY BE USED TO PRESS THE MULCH INTO THE SOIL.

- CONTRACTOR SHALL REMOVE ALL EROSION & SEDIMENT CONTROL MEASURES AFTER COMPLETION OF CONSTRUCTION AND ESTABLISHMENT OF PERMANENT GROUND COVER.
- THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION CONTROL MEASURES AND PRACTICES PRIOR TO, OR CONCURRENT WITH, LAND-DISTURBING ACTIVITIES.
- ALL CUT AND FILL SLOPES MUST BE SURFACED ROUGHENED AND VEGETATED WITHIN SEVEN (7) DAYS OF THEIR CONSTRUCTION.
- ALL FILL SLOPES WILL HAVE SILT FENCE AT TOE OF SLOPES.
- ALL SEDIMENT AND EROSION CONTROL MEASURES WILL BE CHECKED DAILY AND ANY DEFICIENCIES NOTED WILL BE CORRECTED BY THE END OF EACH DAY. ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES WILL BE INSTALLED IF DEEMED NECESSARY AFTER ON-SITE INSPECTION BY THE ISSUING AUTHORITY.
- THE ONLY MATERIAL TO BE BURIED ON-SITE IS VEGETATIVE MATERIAL. CONSTRUCTION WASTE MAY NEITHER BE BURNED NOR BURIED AND MUST BE TAKEN TO A STATE APPROVED LANDFILL.
- A 25' MIN UNDISTURBED VEGETATIVE BUFFER ADJACENT TO ALL RUNNING STREAMS AND CREEKS WILL BE LEFT AND MAINTAINED.

PREPARED FOR:

3637 MADAGA LANE  
TAMPA, FL 33618

A&E FIRM:

1875 OLD ALABAMA ROAD, SUITE 1008  
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TEL 678-990-2338  
FAX 678-990-2342  
ENGINEER: ELIZABETH B. USHER

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A&E PROJECT #:	--
DRAWN BY:	JBE
CHECKED BY:	EBU

REVISIONS		
NO.	DATE	DESCRIPTION
A	09/16/15	ISSUED FOR REVIEW
0	11/16/15	ISSUED FOR CONSTRUCTION
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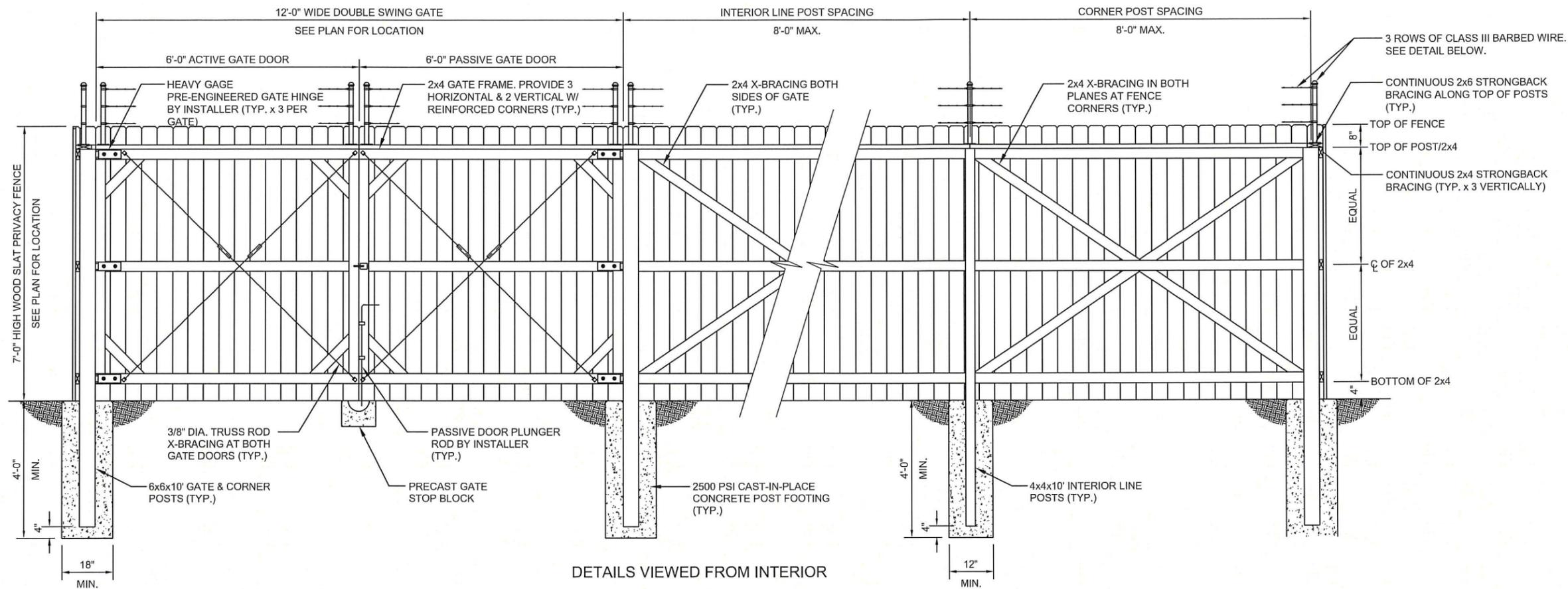
VERIZON WIRELESS SITE NAME:  
**OLD MEDLOCK**

TOWER OWNER / SITE NUMBER:  
VERIZON

DESIGN TYPE:  
BTS

SHEET TITLE:  
**GRADING & SEDIMENT CONTROL NOTES**

DRAWING NO. <b>C7</b>	REVISION NO. <b>2</b>
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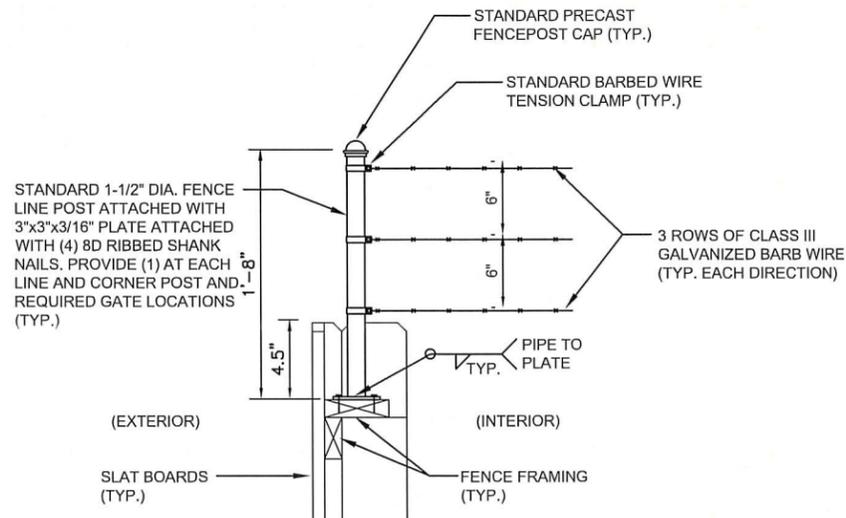
DETAILS VIEWED FROM INTERIOR

**DOG-EARED STYLE WOOD FENCE DETAILS**

NOT TO SCALE

**FENCE NOTES:**

1. ALL WOOD MATERIALS SHALL BE PRESSURE TREATED NO. 2 SOUTHERN YELLOW PINE OR BETTER STRUCTURAL GRADE. FENCE SLAT BOARDS SHALL BE 7'-0" WITH CHAMFERED EDGE.
2. ALL STRUCTURAL FRAMING SHALL BE ATTACHED WITH 16D GALVANIZED RIBBED SHANK NAILS OR 3" GALVANIZED FRAMING SCREWS - 2 MINIMUM PER CONNECTION.
3. ALL FENCE SLAT BOARDS SHALL BE ATTACHED TO SUPPORTING STRUCTURAL MEMBERS WITH N8, N10 OR 8D GALVANIZED RIBBED SHANK NAILS - 2 MINIMUM PER CONNECTION.
4. LINE POSTS SHALL BE SPACED EQUIDISTANT, BUT NOT MORE THAN 10'-0" ON CENTER.
5. FOUNDATIONS ARE DESIGNED TO EMBED INTO TYPICAL SOILS INCLUDING COMPACTED COARSE SAND, MEDIUM STIFF CLAY, OR HARD DENSE CLAY. THE SOIL TYPE SHALL BE VERIFIED PRIOR TO CONSTRUCTION. IF UNUSUAL CONDITIONS ARE FOUND TO EXIST, THE ENGINEER SHALL BE NOTIFIED PRIOR TO CONSTRUCTION.
6. INSTALLER TO PROVIDE A LOCKABLE GATE LATCH WITH COMBINATION LOCK ON THE ACTIVE DOOR. COORDINATE WITH THE CONSTRUCTION MANAGER FOR VERIZON LOCK COMBINATION.
7. ALL GATE HARDWARE SHALL BE PRESSED STEEL OR MALLEABLE CASTING PER ASTM A153 AND TREATED TO RESIST CORROSION. HARDWARE VISIBLE FROM OUTSIDE THE FENCE SHALL BE PAINTED BLACK.
8. REFER TO SITE PLAN FOR FENCE PAINTING INSTRUCTIONS.
9. REFER TO SITE PLAN FOR GATE LOCATION.
10. FENCE DETAILS SHOWN ABOVE ARE TYPICAL AND SHALL APPLY TO SIMILAR CONSTRUCTION APPLICATIONS WHETHER SPECIFICALLY STATED OR NOT ON THE SITE PLAN.
11. SITE SPECIFIC CONDITIONS MAY REQUIRE SLIGHT ADJUSTMENTS TO THE DETAILS SHOWN. CONSULT THE ENGINEER IF UNUSUAL CONDITIONS ARE FOUND TO EXIST.



NOTE: THE FENCE CONTRACTOR MAY SUBSTITUTE AN EQUIVALENT SYSTEM FOR ATTACHING THE BARBED WIRE TO THE WOOD SLAT FENCE.

**BARBED WIRE ATTACHMENT DETAIL**

NOT TO SCALE

**COMPOUND FINAL GRADE NOTES**

4" COMPACTED 95% BASE MATERIAL OR AS DETERMINED BY CONSTRUCTION MANAGER DURING BID WALK.

GEOTEXTILE FABRIC TO BE INSTALLED OVER COMPACTED BASE.

4" OF GRAVEL SHOULD BE SPREAD ON TOP OF GEO FABRIC THROUGHOUT COMPOUND AND 12" TO 18" OUTSIDE FENCE.

FINISH GRADE SHALL BE UNIFORM AND LEVEL.

PREPARED FOR:



3637 MADACA LANE  
TAMPA, FL 33618

A&E FIRM:  
**TOWERSOURCE**

1875 OLD ALABAMA ROAD, SUITE 1008  
ROSWELL, GA 30076  
TEL 678-990-2338  
FAX 678-990-2342  
ENGINEER: ELIZABETH B. USHER

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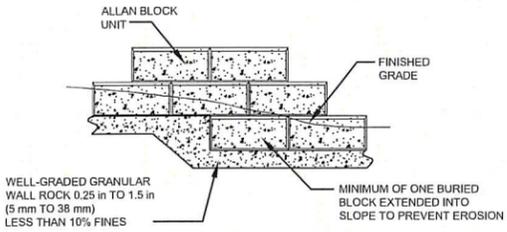
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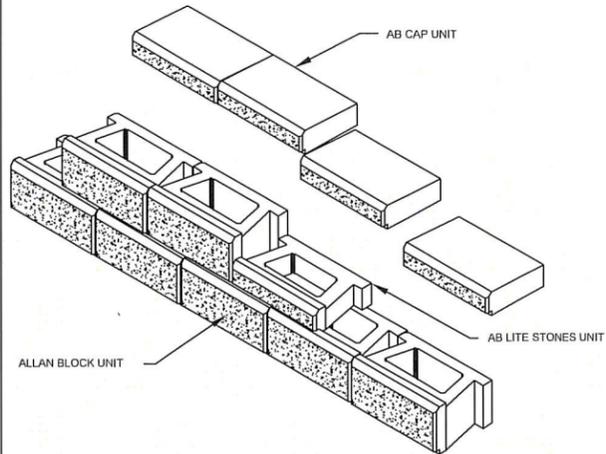
VERIZON WIRELESS SITE NAME:	<b>OLD MEDLOCK</b>
TOWER OWNER / SITE NUMBER:	VERIZON
DESIGN TYPE:	BTS

SHEET TITLE:	FENCE DETAILS
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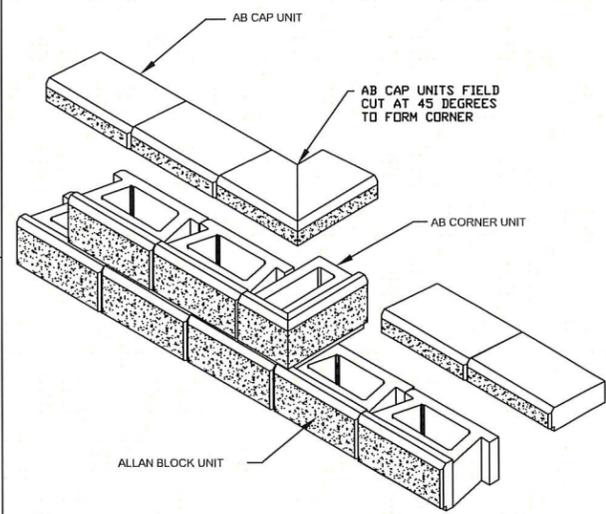
DRAWING NO.	REVISION NO.
<b>C8</b>	<b>2</b>



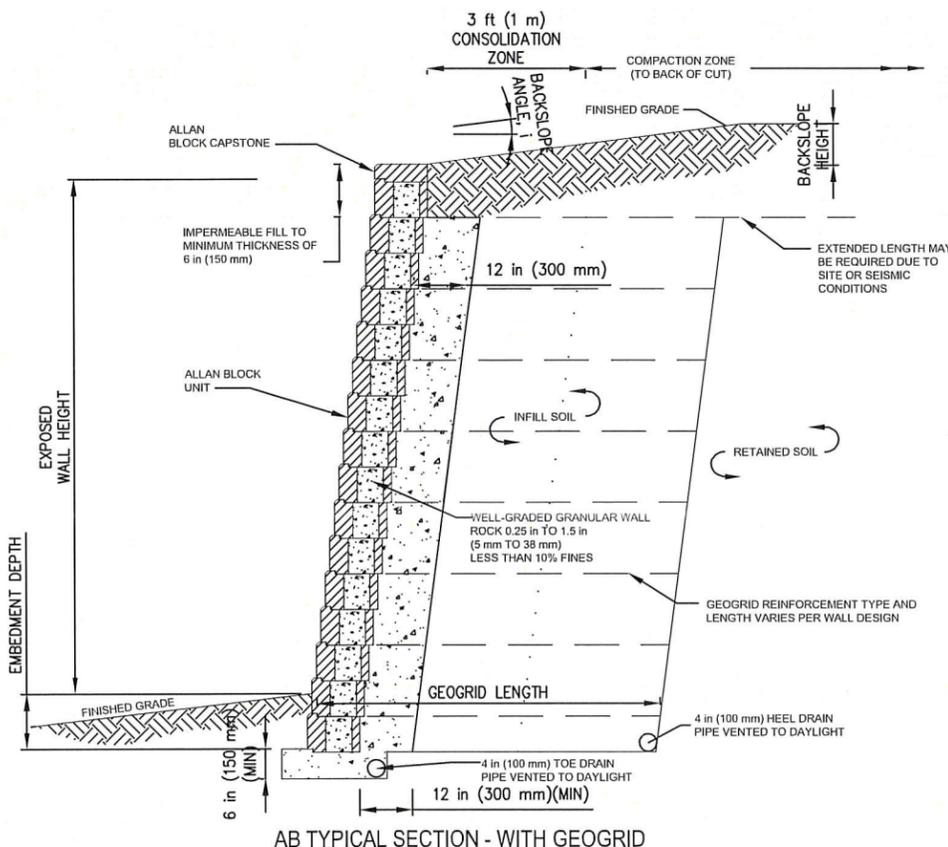
AB TYPICAL SECTION - GROUND LEVEL STEP UP



AB TYPICAL SECTION - STEP UPS WITH AB LITE STONE



AB TYPICAL SECTION - FULL COURSE STEP UPS WITH AB CORNER BLOCK



AB TYPICAL SECTION - WITH GEOGRID

GENERAL RETAINING WALL NOTES

- PART 1- GENERAL**
- 1.01 SECTION INCLUDES**
- A. RETAINING WALL SYSTEM CONSTRUCTED OF CONCRETE SEGMENTAL RETAINING WALL UNITS
  - B. GEOSYNTHETIC REINFORCEMENT FABRIC
  - C. LEVELING PAD BASE
  - D. DRAINAGE AGGREGATE
  - E. BACKFILL
  - F. DRAINAGE PIPE
  - G. ADHESIVES
- 1.02 REFERENCES**
- A. AMERICAN ASSOCIATION OF STATE HIGHWAY TRANSPORTATION OFFICIALS (AASHTO)
    - 1. AASHTO M288 GEOTEXTILE SPECIFICATION FOR HIGHWAY APPLICATIONS
    - 2. AASHTO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES
  - B. AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM)
    - 1. ASTM C440 STANDARD TEST METHODS FOR SAMPLING AND TESTING CONCRETE MASONRY UNITS AND RELATED UNITS
    - 2. ASTM C1262 STANDARD TEST METHOD FOR EVALUATING THE FREEZE-THAW DURABILITY OF MANUFACTURED CONCRETE/MASONRY UNITS AND RELATED CONCRETE UNITS
    - 3. ASTM C1372 STANDARD SPECIFICATION FOR SEGMENTAL RETAINING WALL UNITS
    - 4. ASTM D449 STANDARD CLASSIFICATION FOR SIZES OF AGGREGATE FOR ROAD AND BRIDGE CONSTRUCTION
    - 5. ASTM D698 STANDARD TEST METHODS FOR LABORATORY COMPACTION CHARACTERISTICS OF SOIL USING STANDARD EFFORT 12,400 FT-LBF/1.7
    - 6. ASTM D1556 STANDARD TEST METHOD FOR DENSITY AND UNIT WEIGHT OF SOIL IN PLACE BY THE SAND CONE METHOD
    - 7. ASTM D1557 STANDARD TEST METHODS FOR LABORATORY COMPACTION CHARACTERISTICS OF SOIL USING MODIFIED EFFORT 56,000 FT-LBF/7.7
    - 8. ASTM D2487 STANDARD CLASSIFICATION OF SOILS FOR ENGINEERING PURPOSES (UNIFIED SOIL CLASSIFICATION SYSTEM)
    - 9. ASTM D2922 STANDARD TEST METHODS FOR DENSITY OF SOIL AND SOIL-AGGREGATE IN PLACE BY NUCLEAR METHODS (SHALLOW DEPTH)
    - 10. ASTM D4595 STANDARD TEST METHOD FOR TENSILE PROPERTIES OF GEOTEXTILES BY THE WIDE WIDTH STRIP METHOD
    - 11. ASTM D5262 STANDARD TEST METHOD FOR EVALUATING THE UNCONFINED TENSION CREEP BEHAVIOR OF GEOSYNTHETICS
  - C. NATIONAL CONCRETE MASONRY ASSOCIATION (NCMA)
    - 1. NCMA DESIGN MANUAL FOR SEGMENTAL RETAINING WALLS, SECOND EDITION, SECOND PRINTING (1997)
    - 2. NCMA SRW-1 DETERMINATION OF CONNECTION STRENGTH BETWEEN GEOSYNTHETICS AND SEGMENTAL CONCRETE UNITS
    - 3. NCMA SRW-2 DETERMINATION OF SHEAR STRENGTH BETWEEN SEGMENTAL CONCRETE UNITS
- 1.03 DEFINITIONS**
- A. BACKFILL: SOIL WHICH IS USED AS FILL BEHIND THE DRAINAGE AGGREGATE, AND WITHIN THE REINFORCED SOIL MASS (IF APPLICABLE).
  - B. DRAINAGE AGGREGATE: MATERIAL USED WITHIN (IF APPLICABLE), BETWEEN, AND DIRECTLY BEHIND THE CONCRETE RETAINING WALL UNITS.
  - C. FILTER FABRIC: MATERIAL USED FOR SEPARATION AND FILTRATION OF DISSIMILAR SOIL TYPES.
  - D. FOUNDATION SOIL: SOIL MASS SUPPORTING THE LEVELING PAD AND REINFORCED SOIL ZONE OF THE RETAINING WALL SYSTEM.
  - E. GEOSYNTHETIC REINFORCEMENT: MATERIAL SPECIFICALLY FABRICATED FOR USE AS A SOIL REINFORCEMENT.
  - F. GLOBAL STABILITY: THE GENERAL MASS MOVEMENT OF A SOIL REINFORCED SEGMENTAL RETAINING WALL STRUCTURE AND ADJACENT SOIL MASS.
  - G. PROJECT GEOTECHNICAL ENGINEER: A REGISTERED ENGINEER EMPLOYED BY THE OWNER TO PERFORM SITE OBSERVATIONS, PROVIDE RECOMMENDATIONS FOR FOUNDATION SUPPORT, AND VERIFY SOIL SHEAR STRENGTH PARAMETERS.
- 1.04 DELIVERY, STORAGE AND HANDLING**
- A. DELIVER, STORE, AND HANDLE MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS, IN SUCH A MANNER AS TO PREVENT DAMAGE. CHECK THE MATERIALS UPON DELIVERY TO ASSURE THAT PROPER MATERIAL HAS BEEN RECEIVED. STORE ABOVE GROUND ON WOOD PALLETS OR BLOCKING. REMOVE DAMAGED OR OTHERWISE UNSUITABLE MATERIAL, WHEN SO DETERMINED, FROM THE SITE.
  - 1. EXPOSED FACES OF CONCRETE WALL UNITS SHALL BE FREE OF CHIPS, CRACKS, STAINS, AND OTHER IMPERFECTIONS DETRACTING FROM THEIR APPEARANCE, WHEN VIEWED FROM A DISTANCE OF 10 FEET.
  - 2. PREVENT MUD, NET CEMENT, ADHESIVES AND SIMILAR MATERIALS WHICH MAY HARM APPEARANCE OF UNITS, FROM COMING IN CONTACT WITH SYSTEM COMPONENTS.
- 1.06 EXTRA MATERIALS**
- A. FURNISH OWNER WITH 3 REPLACEMENT UNITS IDENTICAL TO THOSE INSTALLED ON THE PROJECT.

- PART 2-PRODUCTS**
- 2.01 MATERIALS**
- A. CONCRETE RETAINING WALL UNITS: "ANCHOR DIAMOND PRO RETAINING WALL UNITS" AS MANUFACTURED UNDER LICENSE FROM ANCHOR WALL SYSTEMS.
  - 1. PHYSICAL REQUIREMENTS
    - A. MEET REQUIREMENTS OF ASTM C1372, EXCEPT THE MAXIMUM WATER ABSORPTION SHALL BE LIMITED TO 7 PERCENT, AND UNIT HEIGHT DIMENSIONS SHALL NOT VARY MORE THAN PLUS OR MINUS 1/16 INCH FROM THAT SPECIFIED IN THE ASTM REFERENCE, NOT INCLUDING TEXTURED FACE.
    - B. UNIT FACE AREA: NOT LESS THAN 0.94 SQUARE FEET.
    - C. COLOR: SELECTED BY THE OWNER FROM MANUFACTURER'S FULL RANGE OF STANDARD COLORS.
    - D. FACE PATTERN: GEOMETRY: STRAIGHT.
    - E. TEXTURE: SPLIT ROCK FACE.
    - F. INCLUDE AN INTEGRAL CONCRETE SHEAR CONNECTION FLANGE/LOCATOR.
  - B. GEOSYNTHETIC REINFORCEMENT: POLYESTER FIBER GEOTEXTILE OR GEOTEXTILE, OR POLYPROPYLENE WOVEN GEOTEXTILE, AS SHOWN ON THE DRAWINGS.
  - C. LEVELING PAD BASE
    - 1. AGGREGATE BASE: CRUSHED STONE OR GRANULAR FILL MEETING THE FOLLOWING GRADATION AS DETERMINED IN ACCORDANCE WITH ASTM D448:

1. INCH	PERCENT PASSING
NO. 4	35 TO 70
NO. 10	10 TO 35
NO. 20	3 TO 10

    - A. BASE THICKNESS: 6 INCHES (MINIMUM COMPACTED THICKNESS).  - 2. CONCRETE BASE: NONREINFORCED LEAN CONCRETE BASE.
    - A. COMPRESSIVE STRENGTH: 3000 PSI (MAXIMUM).
    - B. BASE THICKNESS: AT LEAST 2 INCHES, BUT NOT MORE THAN 3 INCHES.
  - D. DRAINAGE AGGREGATE: CLEAN CRUSHED STONE OR GRANULAR FILL MEETING THE FOLLOWING GRADATION AS DETERMINED IN ACCORDANCE WITH ASTM D448:
- | 1. INCH  | PERCENT PASSING |
|----------|-----------------|
| NO. 10   | 100             |
| 3/4 INCH | 75 TO 100       |
| NO. 4    | 0 TO 60         |
| NO. 10   | 0 TO 50         |
| NO. 20   | 0 TO 5          |
- E. BACKFILL: SOIL FREE OF ORGANICS AND DEBRIS AND CONSISTING OF EITHER GP, GM, SP, SW, OR SM TYPE, CLASSIFIED IN ACCORDANCE WITH ASTM D2487 AND THE USCS CLASSIFICATION SYSTEM.
    - 1. SOILS CLASSIFIED AS SC AND CL ARE CONSIDERED SUITABLE SOILS FOR SEGMENTAL RETAINING WALLS WITH A TOTAL HEIGHT OF LESS THAN 15 FEET UNLESS THE PLASTICITY INDEX (PI) IS 20 OR MORE.
    - 2. MAXIMUM PARTICLE SIZE FOR BACKFILL IS 2 INCHES.
    - 3. UNSUITABLE SOILS ARE ORGANIC SOILS AND THOSE SOILS CLASSIFIED AS CH, OH, MH, OL, OR PT.

- PART 3-EXECUTION**
- 3.01 EXAMINATION**
- A. EXAMINE THE AREAS AND CONDITIONS UNDER WHICH THE RETAINING WALL SYSTEM IS TO BE ERECTED, AND NOTIFY THE OWNER IN WRITING OF CONDITIONS DETRIMENTAL TO THE PROPER AND TIMELY COMPLETION OF THE WORK. DO NOT PROCEED WITH THE WORK UNTIL UNSATISFACTORY CONDITIONS HAVE BEEN CORRECTED.
  - B. PROMPTLY NOTIFY THE WALL DESIGN ENGINEER OF SITE CONDITIONS WHICH MAY AFFECT WALL PERFORMANCE. SOIL CONDITIONS OBSERVED OTHER THAN THOSE ASSUMED, OR OTHER CONDITIONS THAT MAY REQUIRE A REEVALUATION OF THE WALL DESIGN.
  - C. VERIFY THE LOCATION OF EXISTING STRUCTURES AND UTILITIES PRIOR TO EXCAVATION.
- 3.02 PREPARATION**
- A. ENSURE SURROUNDING STRUCTURES ARE PROTECTED FROM THE EFFECTS OF WALL EXCAVATION.
  - B. EXCAVATION SUPPORT, IF REQUIRED, IS THE RESPONSIBILITY OF THE CONTRACTOR, INCLUDING THE STABILITY OF THE EXCAVATION AND ITS INFLUENCE ON ADJACENT PROPERTIES AND STRUCTURES.
- 3.03 EXCAVATION**
- A. EXCAVATE TO THE LINES AND GRADES SHOWN ON THE DRAWINGS. OVER-EXCAVATION NOT APPROVED BY THE OWNER WILL NOT BE PAID FOR BY THE OWNER. REPLACEMENT OF THESE SOILS WITH COMPACTED FILL AND/OR WALL SYSTEM COMPONENTS WILL BE REQUIRED AT THE CONTRACTOR'S EXPENSE. USE CARE IN EXCAVATING TO PREVENT DISTURBANCE OF THE BASE BEYOND THE LINES SHOWN.
- 3.04 FOUNDATION PREPARATION**
- A. EXCAVATE FOUNDATION SOIL AS REQUIRED FOR FOOTING OR BASE DIMENSION SHOWN ON THE DRAWINGS, OR AS DIRECTED BY THE PROJECT GEOTECHNICAL ENGINEER.
  - B. THE PROJECT GEOTECHNICAL ENGINEER WILL EXAMINE FOUNDATION SOIL TO ENSURE THAT THE ACTUAL FOUNDATION SOIL STRENGTH MEETS OR EXCEEDS THAT INDICATED ON THE DRAWINGS. REMOVE SOIL NOT MEETING THE REQUIRED STRENGTH. OVERSIZE RESULTING SPACE SUFFICIENTLY FROM THE FRONT OF THE BLOCK TO THE BACK OF THE REINFORCEMENT, AND BACKFILL WITH SUITABLE COMPACTED BACKFILL SOILS.
  - C. THE PROJECT GEOTECHNICAL ENGINEER WILL DETERMINE IF THE FOUNDATION SOILS WILL REQUIRE SPECIAL TREATMENT OR CORRECTION TO CONTROL TOTAL AND DIFFERENTIAL SETTLEMENT.
  - D. FILL OVER-EXCAVATED AREAS WITH SUITABLE COMPACTED BACKFILL, AS RECOMMENDED BY THE PROJECT GEOTECHNICAL ENGINEER.

WALL HEIGHTS 5.1 FEET TO 11.67 FEET WITH SURFACE LOADING  
GEOSYNTHETIC REINFORCEMENT SCHEDULE

LAYER	HEIGHT FROM BASE (X)	REINFORCEMENT TYPE	REINFORCEMENT LENGTH
1	0.67 FEET	MIRAGRID 7 XT	8.5 FEET
2	2.67 FEET	MIRAGRID 7 XT	8.5 FEET
3	4.67 FEET	MIRAGRID 7 XT	8.5 FEET
4	6.67 FEET	MIRAGRID 7 XT	8.5 FEET
5	8.67 FEET	MIRAGRID 7 XT	8.5 FEET
6	10.67 FEET	MIRAGRID 7 XT	8.5 FEET

WALL HEIGHTS 1.5 FEET TO 5 FEET WITH SURFACE LOADING  
GEOSYNTHETIC REINFORCEMENT SCHEDULE

LAYER	HEIGHT FROM BASE (X)	REINFORCEMENT TYPE	REINFORCEMENT LENGTH
1	0.67 FEET	MIRAGRID 7 XT	5 FEET
2	2.67 FEET	MIRAGRID 7 XT	5 FEET
3	4.67 FEET	MIRAGRID 7 XT	5 FEET

**CONTRACTOR NOTE:**

RETAINING WALL AS SHOWN IS DESIGNED WITH THESE ASSUMPTIONS:

- SOIL IS SILTY SAND
- SOIL UNIT WEIGHT = 120 POUNDS PER CUBIC FOOT
- SOIL INTERNAL FRICTION = 28

CONTRACTOR MUST VERIFY THE SITE SOIL CONDITIONS WITH GEO REPORT BEFORE STARTING CONSTRUCTION. IF CONDITIONS DO NOT MEET OR EXCEED ABOVE ASSUMPTIONS, CONSULT CM

- NOTES:
1. WALL DESIGN DATA IS BASED ON NRCS SOILS DATA AND TYPICAL SOIL INDEX VALUES. WALL DESIGN IS BASED ON SM SOILS, 120 LBS/CF UNIT WEIGHT, 34° INTERNAL FRICTION FACTOR, NO COHESION.
  2. THE CONTRACTOR AND CONSTRUCTION MANAGER SHALL REVIEW THE PROJECT GEOTECHNICAL REPORT PRIOR TO ORDERING WALL MATERIALS AND COMMENCING WALL CONSTRUCTION. DEVIATIONS FROM THE SOIL DESIGN DATA ABOVE IN THE GEOTECHNICAL REPORT SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO CONSTRUCTION.
  3. ALL GEOSYNTHETIC REINFORCEMENT SHALL BE MIRAGRID TYPE GEOGRID AS MANUFACTURED BY MIRAEAL.

PREPARED FOR:

**SKYWAY TOWERS**

3637 MADACA LANE  
TAMPA, FL 33618

A&E FIRM:

**TOWERSOURCE**

1875 OLD ALABAMA ROAD, SUITE 1008  
ROSWELL, GA 30076  
TEL 678-990-2338  
FAX 678-990-2342  
ENGINEER: ELIZABETH B. USHER

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**OLD MEDLOCK**

TOWER OWNER / SITE NUMBER:

VERIZON

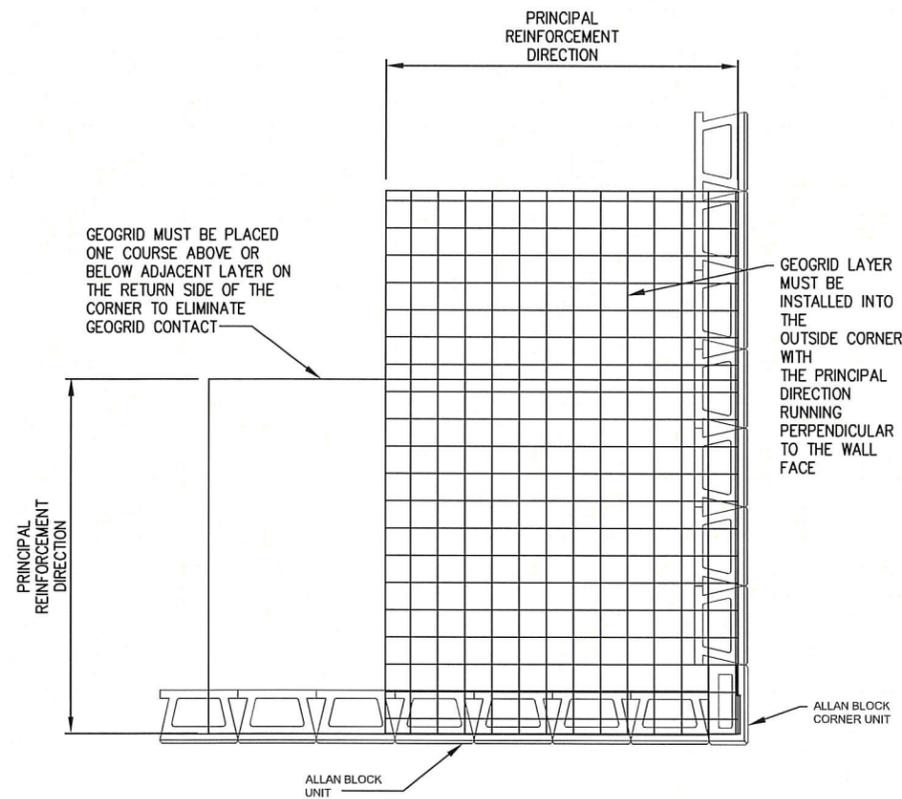
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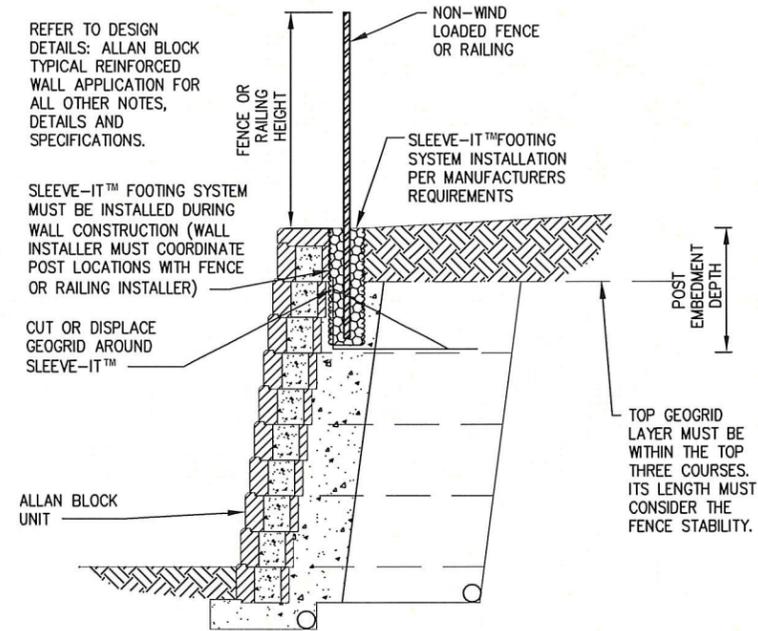
SHEET TITLE:

RETAINING WALL DETAIL

DRAWING NO.	REVISION NO.
<b>R1</b>	<b>2</b>



AB GEOGRID PLAN - CORNERS



AB TYPICAL SECTION - NON-WIND LOADED FENCE SECTION

PREPARED FOR:



3637 MADACA LANE  
TAMPA, FL 33618

A&E FIRM:



1875 OLD ALABAMA ROAD, SUITE 1008  
ROSWELL, GA 30076  
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VERIZON WIRELESS SITE NAME:

**OLD  
MEDLOCK**

TOWER OWNER / SITE NUMBER:

VERIZON

DESIGN TYPE:

BTS

SHEET TITLE:

RETAINING WALL DETAIL

DRAWING NO.

**R2**

REVISION NO.

**2**

**LANDSCAPE NOTES**

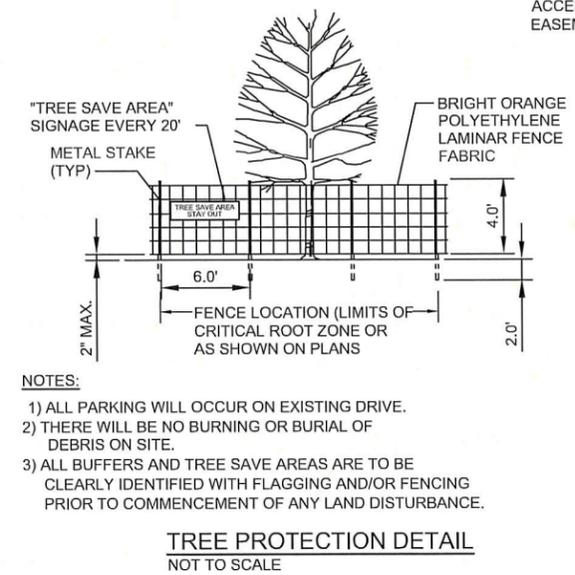
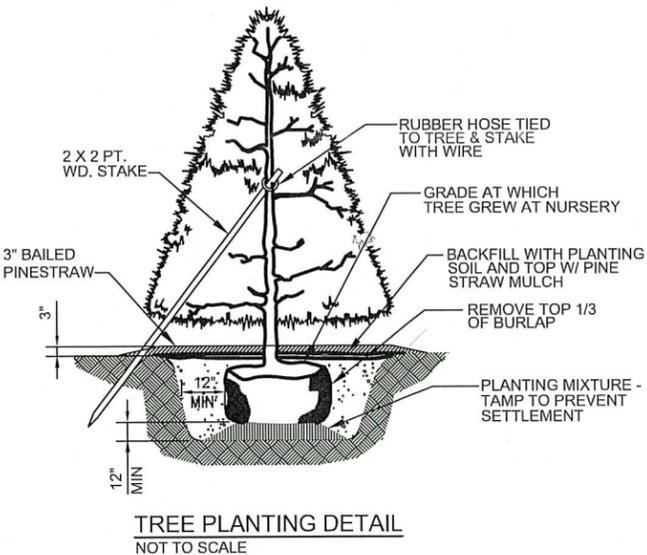
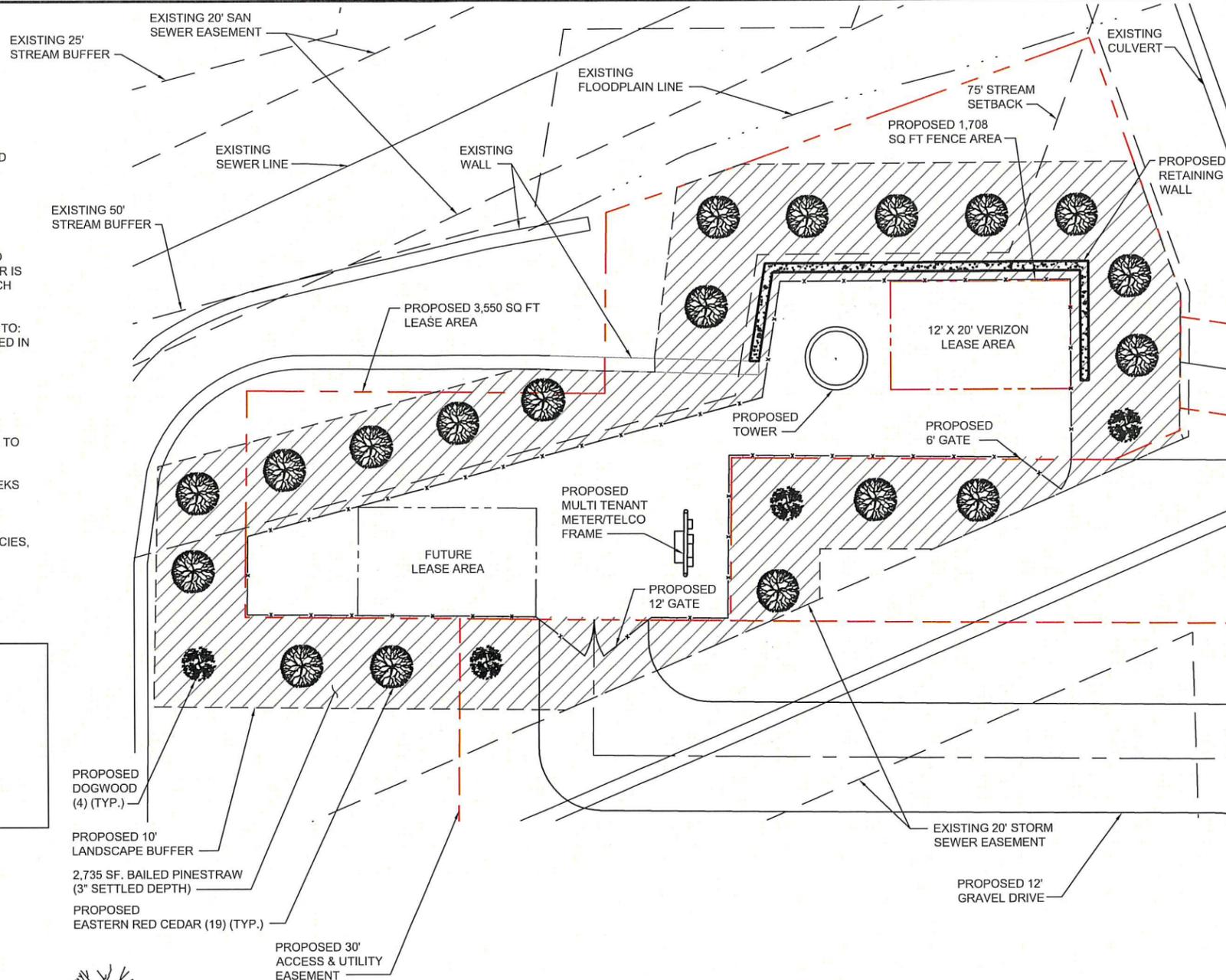
1. ALL PLANTS MUST BE HEALTHY, VIGOROUS MATERIAL, FREE OF PESTS AND DISEASE.
2. ALL PLANTS MUST BE CONTAINER-GROWN OR BALLED AND BURLAPPED AS SPECIFIED.
3. ALL TREES MUST BE STRAIGHT TRUNKED, FULL HEADED AND MEET ALL REQUIREMENTS SPECIFIED.
4. ALL PLANTS ARE SUBJECT TO THE APPROVAL OF THE ENGINEER'S REPRESENTATIVE BEFORE, DURING, AND AFTER INSTALLATION.
5. ALL TREES MUST BE GUYED OR STAKED AS SHOWN.
6. ALL PLANTS AND PLANTING AREAS MUST BE COMPLETELY MULCHED AS SPECIFIED.
7. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL UNDERGROUND UTILITIES AND SHALL AVOID DAMAGE TO ALL UTILITIES DURING COURSE OF THE WORK. THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING ALL DAMAGE TO UTILITIES, STRUCTURES, SITE APPURTENANCES, ETC. WHICH OCCURS AS A RESULT OF THE LANDSCAPE CONSTRUCTION.
8. THE CONTRACTOR IS RESPONSIBLE FOR FULLY MAINTAINING ALL PLANTING (INCLUDING, BUT NOT LIMITED TO: WATERING, SPRAYING, MULCHING, FERTILIZATION, ETC.) OF PLANTING AREAS UNTIL THE WORK IS ACCEPTED IN TOTAL BY THE ENGINEER'S REPRESENTATIVE.
9. THE CONTRACTOR SHALL COMPLETELY GUARANTEE ALL PLANT MATERIAL FOR A PERIOD OF ONE (1) YEAR BEGINNING AT THE DATE OF TOTAL ACCEPTANCE. THE CONTRACTOR SHALL PROMPTLY MAKE ALL REPLACEMENTS BEFORE OR AT THE END OF THE GUARANTEE PERIOD.
10. THE ENGINEER'S REPRESENTATIVE WILL APPROVE THE STAKED LOCATION OF ALL PLANT MATERIAL PRIOR TO INSTALLATION.
11. AFTER BEING DUG AT THE NURSERY SOURCE, ALL TREES IN LEAF SHALL BE ACCLIMATED FOR TWO (2) WEEKS UNDER A MIST SYSTEM PRIOR TO INSTALLATION.
12. ANY PLANT MATERIAL THAT DIES, TURNS BROWN OR DEFOLIATES (PRIOR TO TOTAL ACCEPTANCE OF THE WORK) SHALL BE PROMPTLY REMOVED FROM THE SITE AND REPLACED WITH MATERIAL OF THE SAME SPECIES, QUANTITY, SIZE AND MEETING ALL SPECIFICATIONS.
13. STANDARDS SET FORTH IN "AMERICAN STANDARD FOR NURSERY STOCK", LATEST EDITION, REPRESENT GUIDELINE SPECIFICATIONS ONLY AND SHALL CONSTITUTE MINIMUM QUALITY REQUIREMENTS FOR PLANT MATERIAL.

TOTAL AREA OF LANDSCAPE BUFFER: 2,571 SF - 0.059 ACRES  
 2,571 SF PINESTRAW MULCH - 3" SETTLED LAYER OF CLEAN STRAW

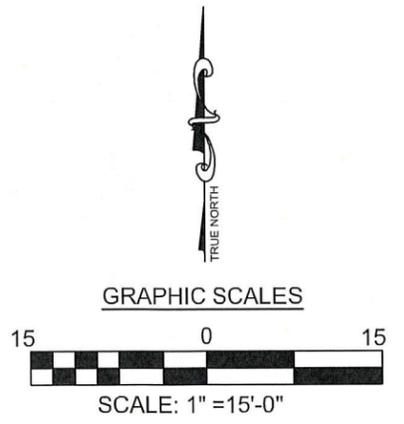
**PLANT LIST:**

QTY.	COMMON NAME	BOTANICAL NAME	SIZE/REMARKS
19	EASTERN RED CEDAR	JUNIPERUS VIRGINIANA	2" DIA
4	DOGWOOD	CORNUS FLORIDA	2" DIA

**DENSITY FACTOR**  
 0.08 ACRES X 30 = 2.4 DFS  
 18 EASTERN RED CEDAR X 0.7 = 12.6



- NOTES:**
- 1) ALL PARKING WILL OCCUR ON EXISTING DRIVE.
  - 2) THERE WILL BE NO BURNING OR BURIAL OF DEBRIS ON SITE.
  - 3) ALL BUFFERS AND TREE SAVE AREAS ARE TO BE CLEARLY IDENTIFIED WITH FLAGGING AND/OR FENCING PRIOR TO COMMENCEMENT OF ANY LAND DISTURBANCE.



**LANDSCAPE PLAN**  
 SCALE: 1" = 15'-0"

PREPARED FOR:

**SKYWAY TOWERS**  
 3637 MADACA LANE  
 TAMPA, FL 33618

A&E FIRM:

**POWERSOURCE**  
 1875 OLD ALABAMA ROAD, SUITE 1008  
 ROSWELL, GA 30076  
 TEL 678-990-2338  
 FAX 678-990-2342  
 ENGINEER: ELIZABETH B. USHER

THE INFORMATION CONTAINED IN THIS SET OF DOCUMENTS IS PROPRIETARY BY NATURE. ANY USE OR DISCLOSURE OTHER THAN THAT WHICH RELATES TO THE CLIENT IS STRICTLY PROHIBITED.

A&E PROJECT #:	--
DRAWN BY:	JBE
CHECKED BY:	EBU

REVISIONS		
NO.	DATE	DESCRIPTION
A	09/16/15	ISSUED FOR REVIEW
0	11/16/15	ISSUED FOR CONSTRUCTION
1	02/08/16	MOVED TOWER LOCATION
2	09/07/16	UPDATED TOWER HEIGHT
3	09/15/16	REVISED COMPOUND SIZE

GEORGIA REGISTERED PROFESSIONAL ENGINEER  
 No. PE021010  
 10-21-16  
 ELIZABETH B. USHER

VERIZON WIRELESS SITE NAME:  
**OLD MEDLOCK**

TOWER OWNER / SITE NUMBER:  
 VERIZON

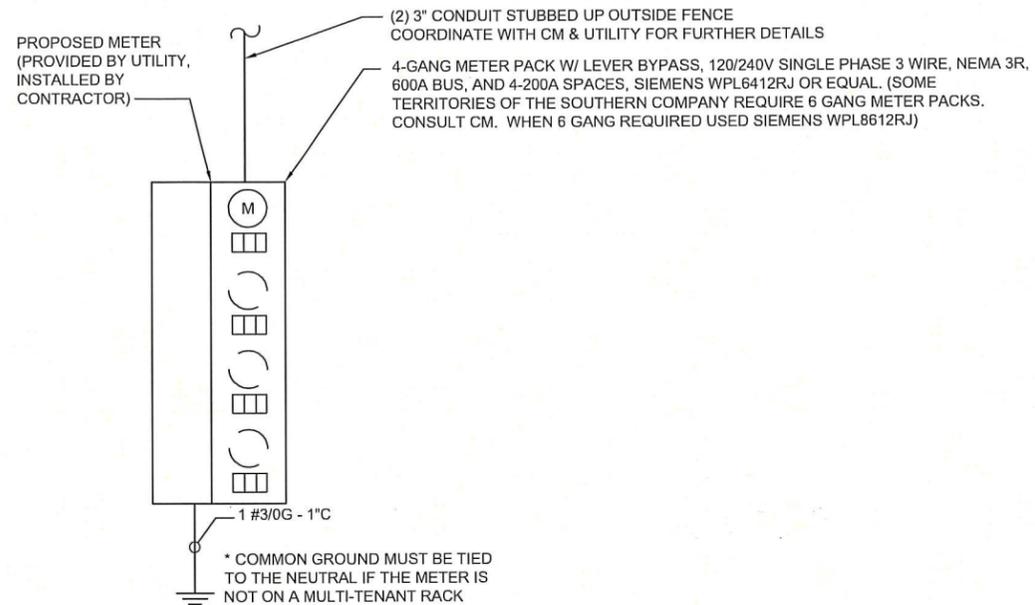
DESIGN TYPE:  
 BTS

SHEET TITLE:  
**ELECTRICAL PLAN**

DRAWING NO. <b>L-1</b>	REVISION NO. <b>2</b>
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**GENERAL NOTES**

1. SCOPE:  
PROVIDE LABOR, EQUIPMENT, MATERIALS, ETC., REQUIRED TO COMPLETE THE INSTALLATION SHOWN.
2. CODES AND STANDARDS:  
INSTALLATION SHALL COMPLY WITH APPLICABLE LAWS AND ORDINANCES, UTILITY COMPANY REGULATIONS, & APPLICABLE REQUIREMENTS OF LATEST EDITIONS OF:  
NFC - NATIONAL FIRE CODE  
UL - UNDERWRITERS LABORATORIES  
NEC - NATIONAL ELECTRICAL CODE  
NEMA - NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION  
OSHA - OCCUPATIONAL SAFETY & HEALTH ACT  
SBC - STANDARD BUILDING CODE
3. PERMITS:  
OBTAIN & PAY FOR REQUIRED PERMITS, LICENSES, FEES, INSPECTIONS, ETC..
4. COORDINATION:  
COORDINATE WORK WITH OTHER TRADES.
5. SUBMITTALS:  
SUBMIT BROCHURES FOR APPROVAL ON DISCONNECT SWITCH & OTHER MAJOR SYSTEM COMPONENTS.
6. EXISTING SERVICES:  
DO NOT INTERRUPT EXISTING SERVICES WITHOUT WRITTEN PERMISSION OF THE OWNER.
7. EQUIPMENT:  
CONNECT ELECTRICALLY OPERATED EQUIPMENT.
8. RECORD DRAWINGS:  
MAINTAIN A RECORD OF ALL CHANGES, SUBSTITUTIONS BETWEEN WORK AS SPECIFIED AND INSTALLED. RECORD CHANGES ON A CLEAN SET OF CONTRACT DOCUMENTS WHICH SHALL BE TURNED OVER TO THE OWNER UPON COMPLETION OF THE PROJECT.
9. IDENTIFICATION:  
IDENTIFY DISCONNECT SWITCH WITH PERMANENT ENGRAVED NAMEPLATE.
10. GUARANTEE/WARRANTY:  
GUARANTEE INSTALLATION TO BE FREE OF DEFECTS, SHORTS, GROUNDS, ETC., FOR A PERIOD OF ONE YEAR. FURNISH WARRANTY SO THE DEFECTIVE MATERIALS AND/OR WORKMANSHIP WILL BE REPAIRED/ REPLACED IMMEDIATELY UPON NOTIFICATION AT NO COST TO THE OWNER FOR PERIOD OF WARRANTY.
11. CUTTING & PATCHING:  
PROVIDE CUTTING REQUIRED TO DO THE WORK. DO NOT CUT STRUCTURAL ELEMENTS WITHOUT APPROVAL. PATCHING SHALL BE OF QUALITY EQUAL TO & OF MATCHING APPEARANCE OF EXISTING CONSTRUCTION.
12. TRENCHING & BACKFILL:  
PROVIDE FOR ALL UNDERGROUND INSTALLED CONDUIT AND/OR CABLES.
13. RACEWAYS:  
UNDERGROUND CONDUIT SHALL BE SCHEDULE 40 PVC CONDUIT (MEETING NEMA TC2-1990). UNDERGROUND PVC CONDUIT SHALL TRANSITION TO RIGID GALVANIZED STEEL CONDUIT BEFORE RISING ABOVE GRADE OR WHEN SUBJECTED TO VEHICLE TRAFFIC LOADS. ALL CONDUIT BENDS SHALL BE A MINIMUM OF 24" RADIUS. EXPOSED CONDUIT SHALL BE RIGID GALVANIZED STEEL. RGS CONDUIT, WHEN SPECIFIED, SHALL MEET UL-6 FOR GALVANIZED STEEL. ALL FITTINGS SHALL BE SUITABLE FOR USE WITH THREADED RIGID CONDUIT. INTERIOR CONDUIT SHALL BE ELECTRICAL METALLIC TUBING WITH COMPRESSION TYPE FITTINGS.
14. SUPPORTS:  
AS REQUIRED BY THE NEC.
15. CONDUCTORS:  
USE 98% CONDUCTIVITY COPPER WITH TYPE THHN/THWN INSULATION, 600 VOLT, COLOR CODED. USE SOLID CONDUCTORS FOR WIRE UP TO #8 AWG. USE STRANDED CONDUCTORS FOR WIRE #8 AWG AND ABOVE.
16. CONNECTORS FOR POWER CONDUCTORS:  
USE PRESSURE TYPE INSULATED TWIST CONNECTORS FOR #10 AWG AND SMALLER. USE SOLDERLESS MECHANICAL TERMINAL LUGS FOR #8 AWG AND LARGER.
17. GROUNDING:  
A. ALL MATERIALS SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS & INSTRUCTIONS.  
B. ALL CONNECTIONS SHALL BE 2- HOLE LUG UNLESS UNDERGROUND.  
C. LUGS SHALL BE ATTACHED TO GROUND BARS USING STAINLESS STEEL OR HOT-DIPPED GALVANIZED STEEL BOLTS, NUTS, & LOCKWASHERS.  
D. PROVIDE TESTING OF GROUNDING SYSTEM AS DIRECTED BY CONSTRUCTION MANAGER.
18. GENERAL:  
FOR ADDITIONAL INFORMATION, REFER TO THE FORESITE SPECIFICATIONS.



PREPARED FOR:

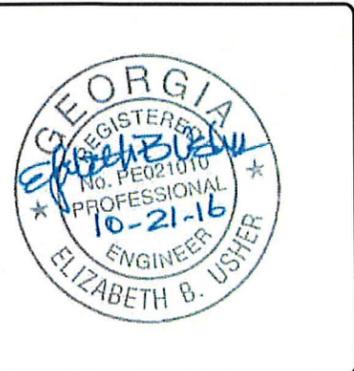


A&E FIRM:  
**TOWERSOURCE**  
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ENGINEER: ELIZABETH B. USHER

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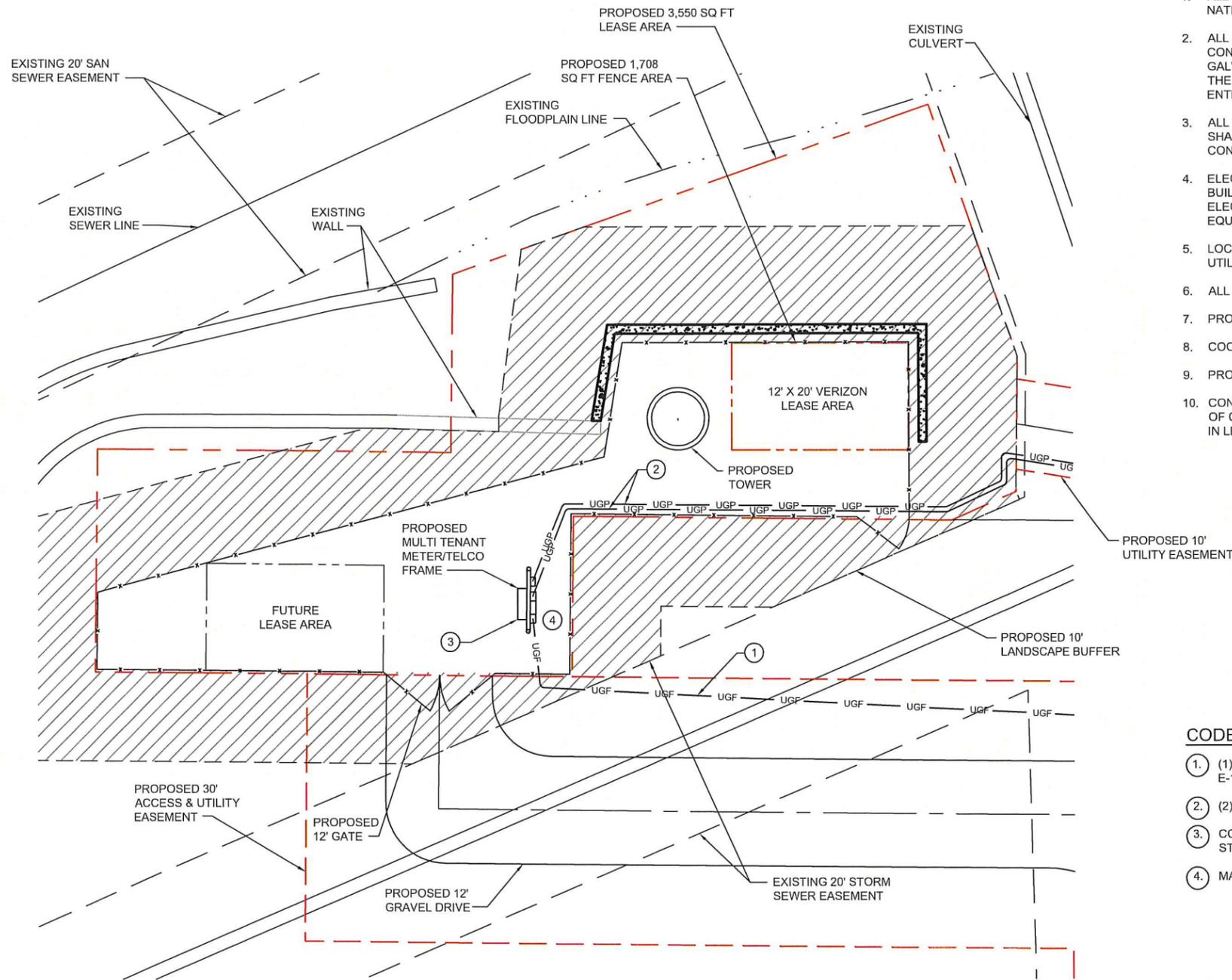
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VERIZON WIRELESS SITE NAME:  
**OLD MEDLOCK**  
TOWER OWNER / SITE NUMBER:  
VERIZON  
DESIGN TYPE:  
BTS

SHEET TITLE:  
ELECTRICAL NOTES & ONE-LINE DIAGRAM

DRAWING NO. <b>E1</b>	REVISION NO. <b>2</b>
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**ELECTRICAL PLAN**

SCALE: 1" = 15'-0"

**GENERAL ELECTRICAL NOTES:**

1. ALL ELECTRICAL WORK SHALL BE IN ACCORDANCE WITH THE LATEST VERSION OF THE NATIONAL ELECTRICAL CODE AND ALL LOCAL AND STATE CODES, LAWS, AND ORDINANCES.
2. ALL UNDERGROUND CONDUIT SHALL BE PVC SCHEDULE 40 UNLESS OTHERWISE INDICATED. CONDUITS EXPOSED ABOVE GROUND OR ROUTED UNDER GRAVEL ROAD SHALL BE RIGID GALVANIZED STEEL. ALL UNDERGROUND CONDUIT SHALL TRANSITION FROM PVC TO RIGID AT THE 90° BEND BELOW GRADE. SUPPLY UTILITY MARKING TAPE BURIED 12" BELOW GRADE ALONG ENTIRE LENGTH OF UNDERGROUND CONDUITS.
3. ALL CONDUCTORS SHALL BE COPPER WITH THHN/THWN INSULATION. CONTROL CONDUCTORS SHALL BE STRANDED. POWER & LIGHTING CONDUCTORS SHALL BE SOLID FOR #10 & #12 CONDUCTORS AND STRANDED FOR ALL OTHER SIZES.
4. ELECTRICAL DRAWINGS ARE IN PART DIAGRAMMATIC. COORDINATE ELECTRICAL WORK WITH BUILDING STRUCTURE AND MECHANICAL EQUIPMENT. PROVIDE ADDITIONAL SUPPORTS FOR ELECTRICAL EQUIPMENT WHERE THE BUILDING STRUCTURE IS NOT ADAPTED TO MOUNTING EQUIPMENT THEREON.
5. LOCATE ALL UNDERGROUND UTILITIES BEFORE TRENCHING. IF CONFLICTS ARISE, CONTACT UTILITY COMPANY AND ENGINEER IMMEDIATELY.
6. ALL EXPOSED CONDUITS SHALL HAVE WEATHERPROOF CAPS NOT DUCT TAPE.
7. PROVIDE 200 LB TEST PULL WIRES IN EACH EMPTY TELEPHONE AND POWER CONDUIT.
8. COORDINATE ALL CONDUIT STUB-UP LOCATIONS WITH UTILITY COMPANY.
9. PROVIDE WEATHERPROOF SEALS FOR ALL CONDUIT STUB-UPS.
10. CONDUIT TO BE INSTALLED PER NEC REQUIREMENTS. MAX OF 4 90'S ALLOWED IN SINGLE RUN OF CONDUIT. IF MORE BENDS ARE REQUIRED INSTALL PULL BOX EVERY (4) 90'S, 4 BENDS OR 150' IN LENGTH.

**CODED DRAWING NOTES:**

1. (1) 3"C FOR FIBER FROM HAND HOLE AT ROW AT STREET TO MULTI TENANT FRAME; REFER TO E-1.
2. (2) 3"C FOR POWER SERVICE FROM TRANSFORMER TO MULTI TENANT FRAME; REFER TO E-1.
3. COORDINATE ELECTRICAL SERVICE REQUIREMENTS IN ADVANCE WITH UTILITY COMPANY. STUB UP POWER AND FIBER CONDUIT AS DIRECTED BY UTILITY COMPANY.
4. MAINTAIN ALL NEC CLEARANCES.

**ABBREVIATIONS**

AWG	AMERICAN WIRE GAUGE	PVC	POLYVINYL CHLORIDE
BFG	BELOW FINISH GRADE	RGS	RIGID GALVANIZED STEEL
C	CONDUIT	SS	STAINLESS STEEL
CAB	CABINET	SST	SELF SUPPORTING TOWER
DWG	DRAWING	TYP.	TYPICAL
G	GROUND		

PREPARED FOR:



3637 MADACA LANE  
TAMPA, FL 33618

A&E FIRM:



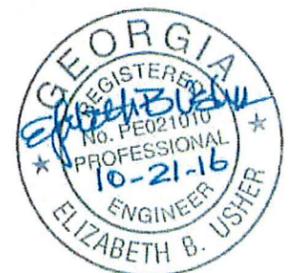
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**OLD MEDLOCK**

TOWER OWNER / SITE NUMBER:

VERIZON

DESIGN TYPE:

BTS

SHEET TITLE:

ELECTRICAL PLAN

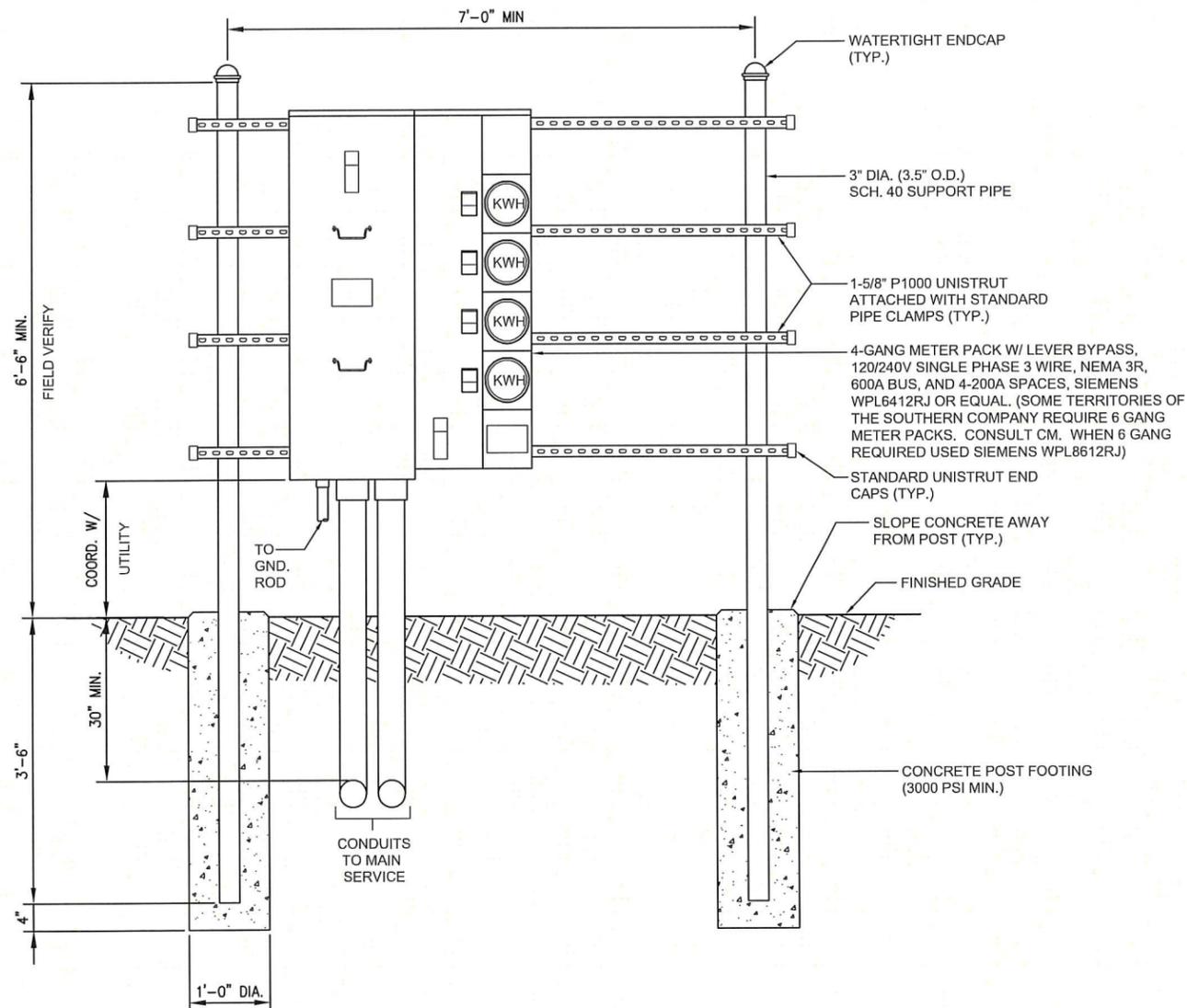
DRAWING NO.	REVISION NO.
<b>E-2A</b>	<b>2</b>



**GRAPHIC SCALES**

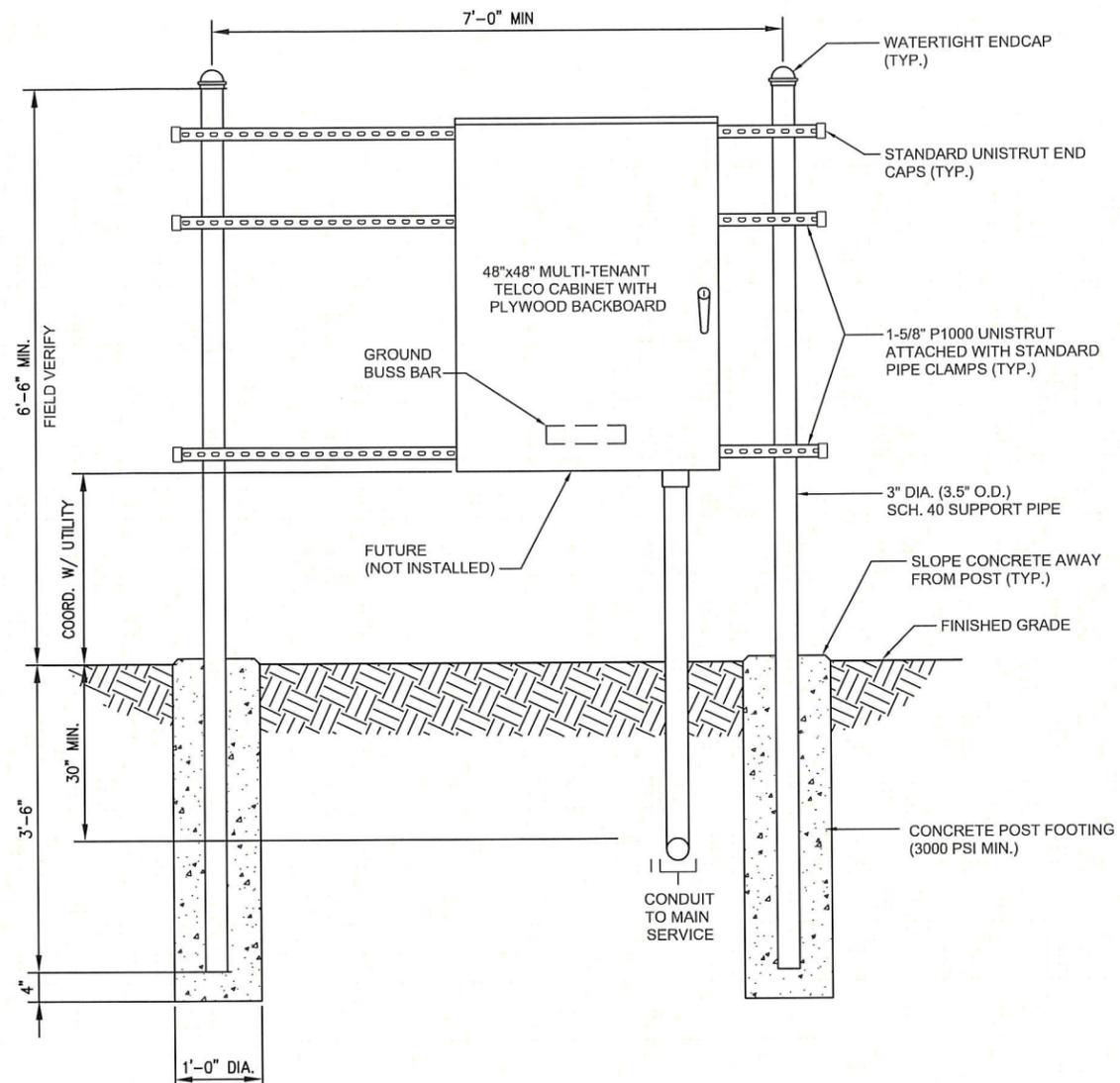


SCALE: 1" = 15'-0"



**UTILITY FRAME DETAIL (GANG METER)**

NOT TO SCALE



**UTILITY FRAME DETAIL (TELCO)**

NOT TO SCALE

**NOTES:**

1. ALL UNDERGROUND CONDUIT SHALL BE PVC SCHEDULE 40 UNLESS OTHERWISE INDICATED. ALL CONDUITS EXPOSED ABOVE GROUND SHALL BE RIGID GALVANIZED STEEL. ALL UNDERGROUND CONDUIT SHALL TRANSITION FROM PVC TO RIGID AT THE 90° BEND BELOW GRADE.
2. CONTRACTOR SHALL FIELD LOCATE THE METER PEDESTAL AS SHOWN ON SITE PLAN. INSTALL THE METER PEDESTAL NEAR THE PERIMETER OF THE FENCED COMPOUND WITH THE METERS FACING AS SHOWN.
3. THE CONTRACTOR SHALL COORDINATE WITH THE LOCAL UTILITY COMPANY FOR THE CONDUIT RUN TO THE MAIN SERVICE CONNECTION OR TRANSFORMER.
4. THE CONTRACTOR SHALL COORDINATE WITH THE LOCAL UTILITY COMPANY FOR GROUND ROD REQUIREMENTS. IF REQUIRED, THE CONTRACTOR SHALL ORDER AND PAY FOR NECESSARY GROUND TESTS.
5. SUPPORT POST AND UNISTRUT SHALL BE GALVANIZED, PIPE CLAMPS AND HARDWARE SHALL BE GALVANIZED OR STAINLESS STEEL.
6. TELCO CABINET SHALL BE 36"x48"x10" HOFFMAN OR EQUIVALENT. PROVIDE 3/4" PLYWOOD BACKBOARD INSIDE THE MULTI-TENANT TELCO CABINET.
7. ADJUSTMENTS TO THE METER PEDESTAL DESIGN MAY BE REQUIRED DEPENDING ON THE EXACT METER PANEL INSTALLED. CONTRACTOR SHALL FIELD COORDINATE ADJUSTMENTS AND INFORM THE ENGINEER IF ANY UNUSUAL CONDITIONS ARE FOUND TO EXIST.

PREPARED FOR:



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TAMPA, FL 33618

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TOWER OWNER / SITE NUMBER:

VERIZON

DESIGN TYPE:

BTS

SHEET TITLE:

METER FRAME DETAILS

DRAWING NO. REVISION NO.

**E5**

**2**