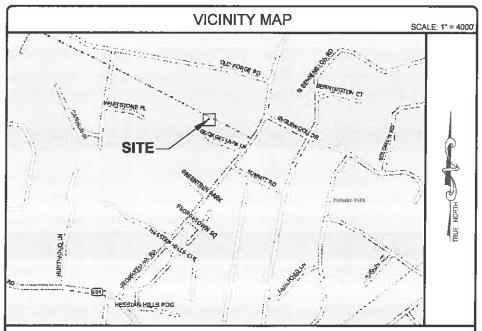


SITE NAME: SEMINOLE SQUARE

195 GEORGETOWN RD CHARLOTTESVILLE, VA 22901 ALBEMARLE COUNTY



DIRECTIONS

FROM GOODES BRIDGE R TO US-360E/HULL ST. IMMEDIATE R ONTO CHIPPENHAM PKWYN/VA-150. TAKE EXIT TO VA-76N/POWHITE PKWY, CONTINUE ON I-195N. FOLLOW SIGNS FOR I-64 W. TAKE CHARLOTTESVILLE EXIT 118 TO US-29N. TAKE BARRACKS RD./COUNTY 654 EXIT. LEFT ON BARRACKS RD. R AT GEORGETOWN RD. TO DESTINATION ON L.

CODE COMPLIANCE

ALL WORK AND MATERIALS SHALL BE PERFORMED AND INSTALLED IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE FOLLOWING CODES AS ADOPTED BY THE LOCAL GOVERNING AUTHORITIES. NOTHING IN THESE PLANS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THE LATEST EDITIONS OF THE FOLLOWING CODES.

- 2012 INTERNATIONAL BUILDING CODE
- 2009 NFPA 101, LIFE SAFETY CODE
- 2009 IFC
- AMERICAN CONCRETE INSTITUTE
- AMERICAN INSTITUTE OF STEEL CONSTRUCTION
- MANUAL OF STEEL CONSTRUCTION 13TH EDITION
- ANSI/TIA-222-G
- TIA 607
- INSTITUTE FOR ELECTRICAL & ELECTRONICS ENGINEER 6°
- IEEE C2 NATIONAL ELECTRIC SAFETY CODE LATEST EDITION
- TELECORDIA GR-1275
- ANSI/T 311

	Odii belole you ui
	DRAWING INDEX
T-1	TITLE SHEET
Z-1	SITE PLAN
C-1	COMPOUND PLAN
C-2	TOWER ELEVATION DETAILS & NOTES
A-1	GROUND EQUIPMENT LAYOUT
L-1	LANDSCAPING PLAN
S-1	CONSTRUCTION DETAILS & NOTES
S-2	EQUIPMENT CONCRETE PAD & STEEL PLATFORM DETAILS
S-3	EQUIPMENT STEEL PLATFORM DETAILS
S-4	GENERATOR DETAILS
S-5	ANTENNA MOUNT DETAILS
E-1	ELECTRICAL PLAN & DETAILS
E-2	ELECTRICAL RISER DIAGRAM & SERVICE ENTRANCE SCHEMATIC
E-3	ELECTRICAL PANEL SCHEDULE, DIAGRAM & NOTES

E-4 ELECTRICAL CONDUIT SCHEMATIC G-1 GROUNDING PLAN & DETAILS G-2 GROUNDING PLAN G-3 GROUNDING RISER DIAGRAM, DETAILS & NOTES P-1 GAS PIPING DETAILS

ES-1 **EROSION & SEDIMENTATION CONTROL PLAN AND DETAILS** ES-2 **EROSION & SEDIMENTATION CONTROL DETAILS**

DO NOT SCALE DRAWINGS

THESE DRAWINGS ARE FORMATTED TO BE FULL-SIZE AT 24"X36". CONTRACTOR SHALL VERIFY ALL PLANS AND EXISTING DIMENSIONS AND CONDITIONS ON THE JOB SITE AND SHALL IMMEDIATELY NOTIFY THE DESIGNER / ENGINEER IN WRITING OF ANY DISC RESE TO P

SHALL IMMEDIATELY NOT IN Y THE DESIGNER /T I DISCREPANCIES BEFORE PROCEEDING WITH RESPONSIBLE FOR THE SAME. CONTRACTOR STOPREVENT STORM WATER POLLUTION DURI	PROFESSIONAL ST					
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CONSTRUCTION MANAGER	DATE				SHEETTINE	
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UTILITIES	DATE				ET NUMBER	

TOTALLY COMMITTED.



1831 RADY COURT RICHMOND, VA 23222

"SEMINOLE SQUARE" **VERIZON COLLOCATION** NB+C PROJ. #27074 195 GEORGETOWN RD CHARLOTTESVILLE, VA 22901 ALBEMARLE COUNTY

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TRENT T. SNARR, P.E. VA PROFESSIONAL ENGINEER LIC. #49978

TITLE SHEET

INSTALLATION OF ANTENNAS AND ASSOCIATED EQUIPMENT PROJECT DESCRIPTION: 195 GEORGETOWN RD

SITE INFORMATION

NEW BUILD - NON TOWER COLLOCATION

SITE ADDRESS:

LATITUDE (NAD 83): 38° 03' 54.978" LONGITUDE (NAD 83): -78° 30' 20.948

PROJECT TYPE:

ENVIRONMENTAL CONDITION - LBP ON POWER POLE, EXCAVATED SOILS TO BE MANAGED ACCORDING TO SOIL MANAGEMENT PLAN.

600' (AMSL) GROUND ELEVATION: JURISDICTION:

ALBEMARLE COUNTY ZONING: RURAL AREAS PARCEL ID: 060A0-09-00-00400

PARCEL AREA: 3.8220 ACRES

PARCEL OWNER FLINN, MARILYN P BAROTES DOMINION VIRGINIA POWER TOWER OWNER

RICHMOND, VA 23219

STRUCTURE TYPE: TRANSMISSION TOWER HEIGHT OF STRUCTURE: 110'-0" (AGL)

RAD CENTER 116'-0" (AGL) OVERALL HEIGHT OF 122'-0" (AGL)

TOTAL LEASE AREA:

POWER PROVIDER: **DOMINION VA POWER (888) 837-4966** TELCO PROVIDER: CENTURYLINK (434) 202-2999

NATURAL GAS PROVIDER: CITY OF CHARLOTTESVILLE (434) 970-3686

EMERGENCY INFORMATION:

CHARLOTTESVILLE FIRE DEPARTMENT:

(434) 970-3240 CHARLOTTESVILLE POLICE DEPT: (434) 970-3280

PROJECT TEAM

APPLICANT:

VERIZON WIRELESS 1831 RADY COURT RICHMOND, VA 23222 MERLE DAIGER GDN SITES

NATHAN HOLLAND (757) 305-8420

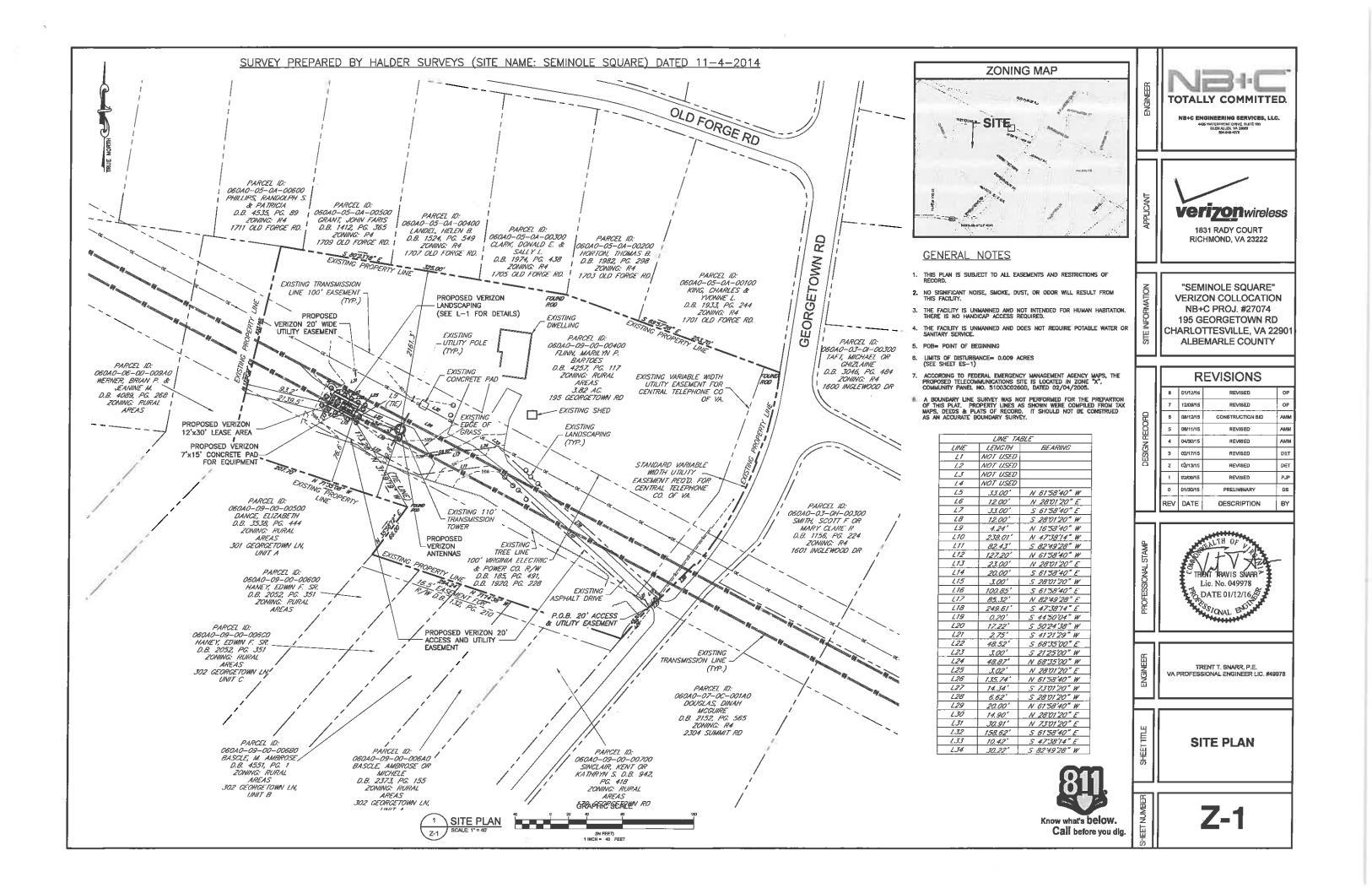
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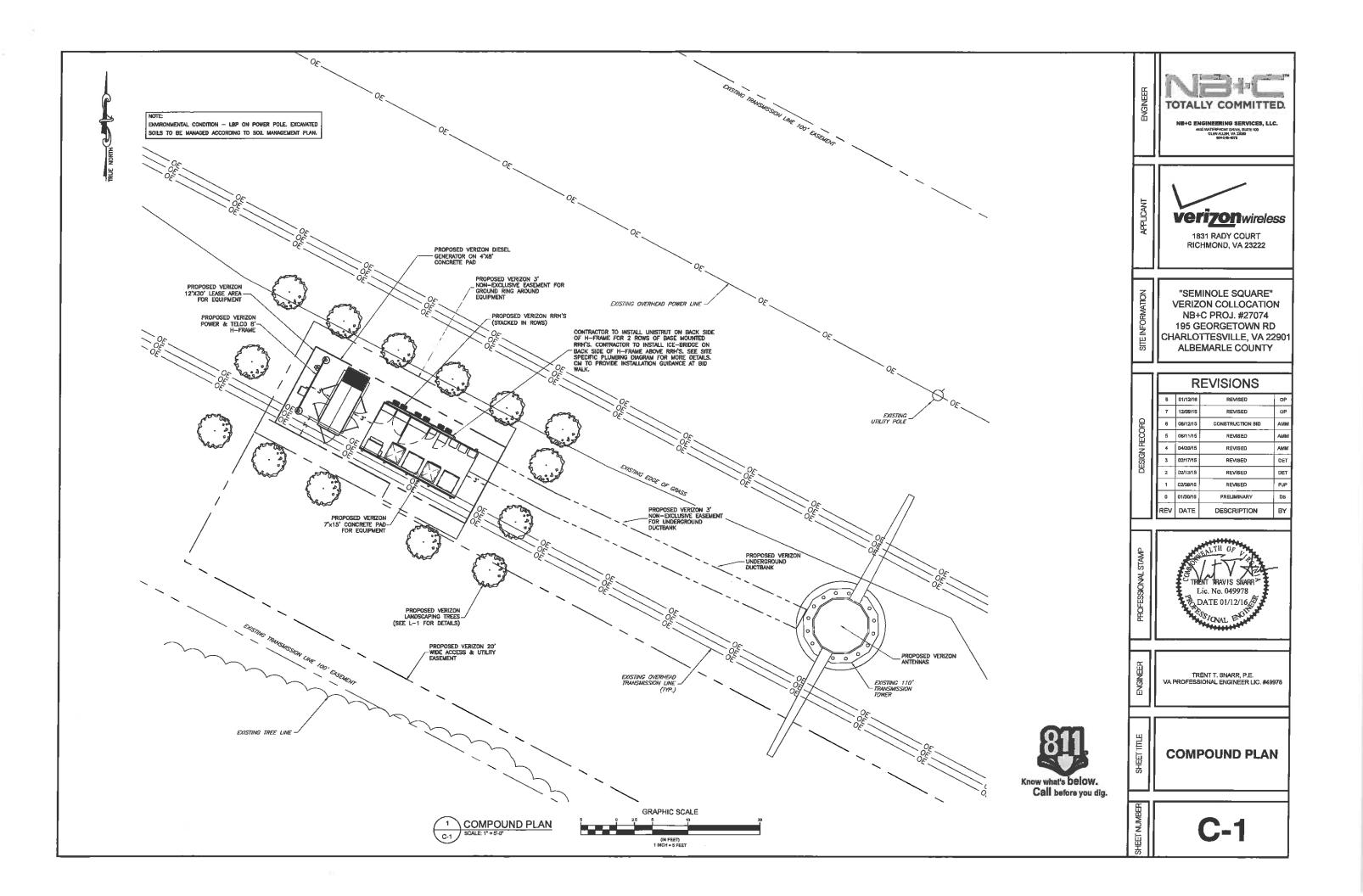
ENGINEERING FIRM:

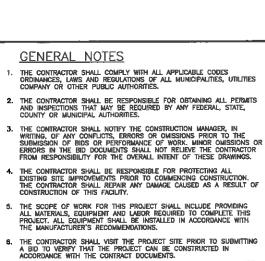
PROJECT MANAGEMENT FIRM:

NB+C ENGINEERING SERVICES, LLC. 4435 WATERFRONT DRIVE GLEN ALLEN, VA 23060

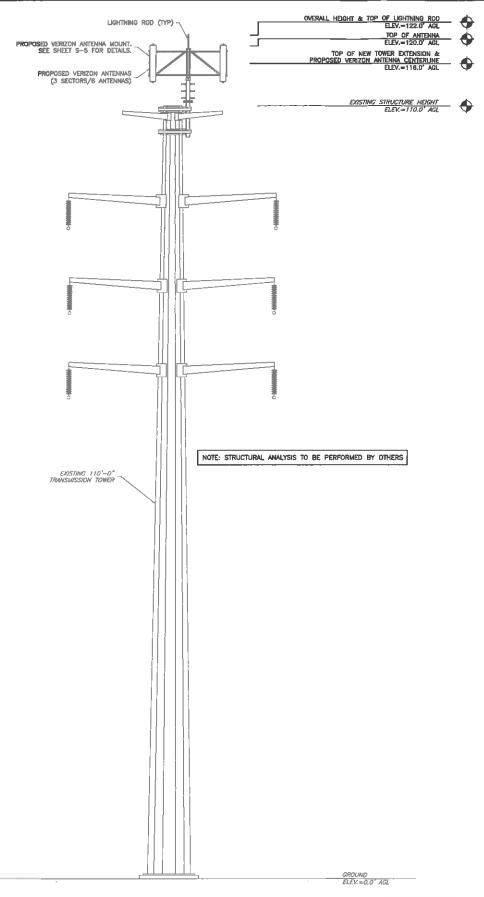
2011 NATIONAL ELECTRICAL CODE







- THE SCOPE OF WORK FOR THIS PROJECT SHALL INCLUDE PROVIDING ALL MATERIALS, EQUIPMENT AND LABOR REQUIRED TO COMPLETE THIS PROJECT, ALL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
- CONTRACTOR SHALL VERIFY ANTENNA ELEVATION AND AZIMUTH WITH IN-ENGINEERING PRIOR TO INSTALLATION.
- TRANSMITTER EQUIPMENT AND ANTENNAS ARE DESIGNED TO MEET ANSI/TIA 222—G REQUIREMENTS.
- 9. ALL STRUCTURAL ELEMENTS SHALL BE HOT DIPPED GALVANIZED STEEL
- 10. CONTRACTOR SHALL MAKE A UTILITY "ONE CALL" TO LOCATE ALL UTILITIES PRIOR TO EXCAVATING.
- 11. IF ANY UNDERGROUND UTILITIES OR STRUCTURES EXIST BENEATH THE PROJECT AREA, CONTRACTOR MUST LOCATE IT AND CONTACT THE APPLICANT & THE OWNER'S REPRESENTATIVE,
- 12. OCCUPANCY IS LIMITED TO PERIODIC MAINTENANCE AND INSPECTION BY TECHNICIANS APPROXIMATELY 2 TIMES PER MONTH.
- 13. PRIOR TO THE INSTALLATION OF THE PROPOSED EQUIPMENT OR MODIFICATION OF THE EXISTING STRUCTURE, A STRUCTURAL ANALYSIS SHALL BE PERFORMED BY THE OWNER'S AGENT TO CERTIFY THAT THE EXISTING/PROPOSED COMMUNICATION STRUCTURE AND COMPONENTS ARE STRUCTURALLY ADEQUATE TO SUPPORT ALL EXISTING AND PROPOSED AMTENNAS, COAXAL CABLES AND OTHER APPURTENANCES.
- 14. PROPERTY LINE INFORMATION WAS PREPARED USING DEEDS, TAX MAPS, AND PLANS OF RECORD AND SHOULD NOT BE CONSTRUED AS AN ACCURATE BOUNDARY SURVEY.
- 15. THIS PLAN IS SUBJECT TO ALL EASEMENTS AND RESTRICTIONS OF RECORD.
- THE PROPOSED FACILITY WILL CAUSE ONLY A "DE MINIMIS" INCREASE IN STORMMATER RUNOFF. THEREFORE, NO DRAINAGE STRUCTURES ARE PROPOSED.
- 17. NO SIGNIFICANT NOISE, SMOKE, DUST, OR ODOR WILL RESULT FROM THIS FACILITY.
- 18. THE FACILITY IS UNMANNED AND NOT INTENDED FOR HUMAN HABITATION (NO HANDICAP ACCESS REQUIRED).
- 19. THE FACILITY IS UNMANNED AND DOES NOT REQUIRE POTABLE WATER TON
- 20. POWER TO THE FACILITY WILL BE MONITORED BY A SEPARATE METER.



INSTALLATION NOTES

- THE PROPOSED MOUNTING PLATFORM, PIPES AND ANTENNAS WILL BE COLORED TO CLOSELY MATCH THAT OF THE EXISTING DOMINION POWER TOWER.
- PROPOSED ANTENNAS:
 (6) ANDREW SBNHH-TD65C_PORT1 -+45_00DT 7.1" DEPTH x 96.0" LENGTH x 11.9" WIDTH WEIGHT: 49.6 LBS
- NOTE: CONTRACTOR TO VERIFY PROPOSED ANTENNA INFORMATION IS THE MOST CURRENT DATA AT TIME OF CONSTRUCTION.
- 3. ALL CABLES CONNECTING THE GROUND—BASE EQUIPMENT TO THE AMTENNAS WILL BE RUN VERTICALLY WITHIN CABLE PORTS THAT WILL FACE THE INTERIOR OF THE PROPERTY (WESTERN SIDE) AND BE PAINTED TO MATCH THE COLOR OF THE EXISTING POWER POLE.





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"SEMINOLE SQUARE" VERIZON COLLOCATION NB+C PROJ. #27074 195 GEORGETOWN RD CHARLOTTESVILLE, VA 22901 ALBEMARLE COUNTY

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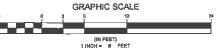
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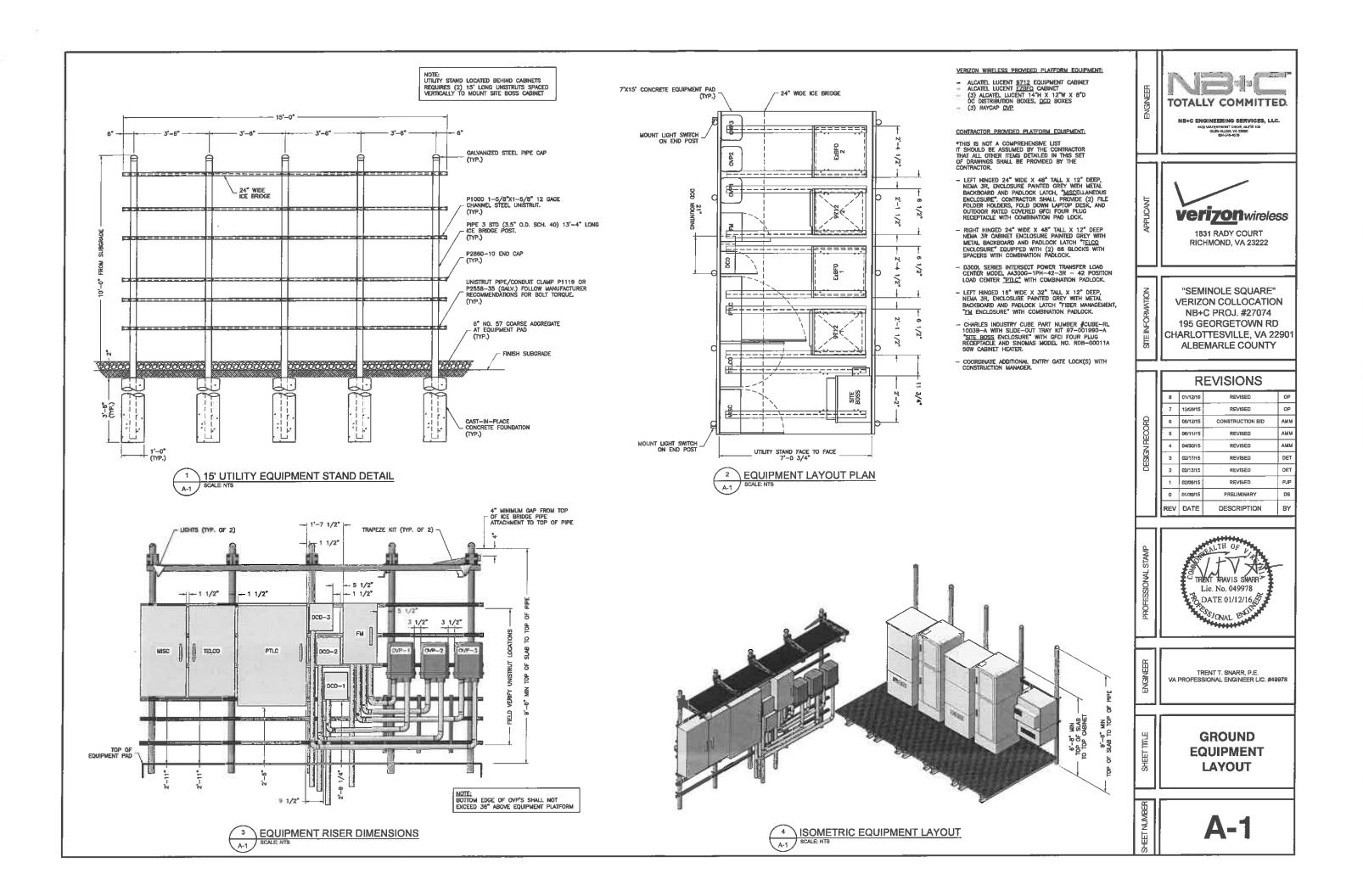
TOWER ELEVATION DETAILS & NOTES

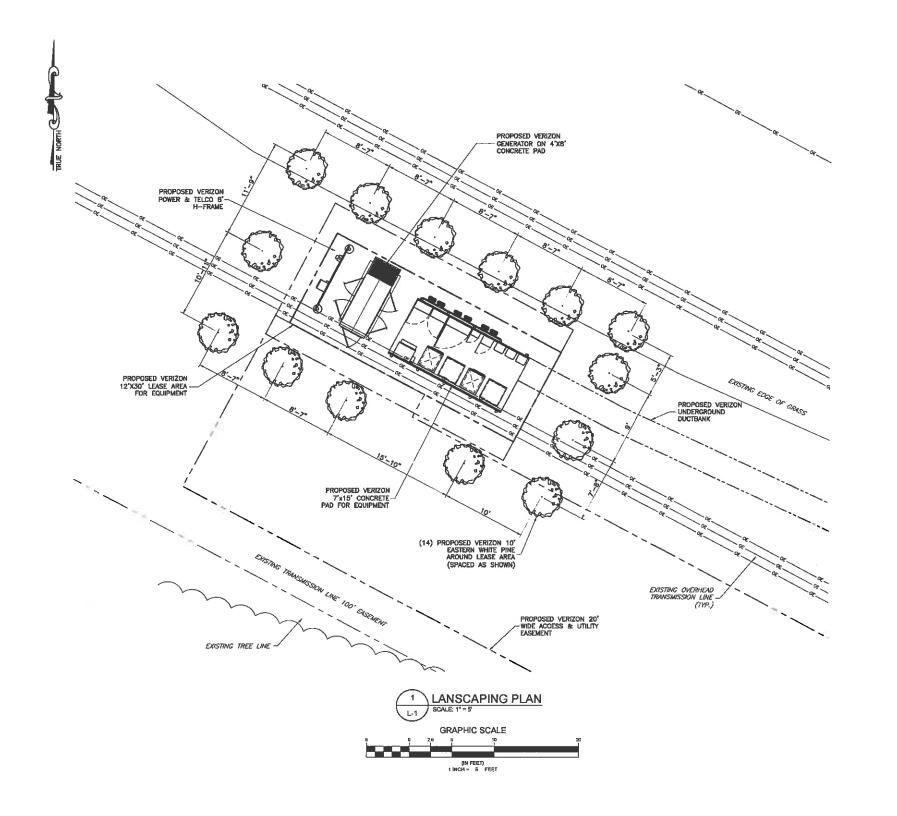
Know what's below.

Call before you dig.

ELEVATION C-2



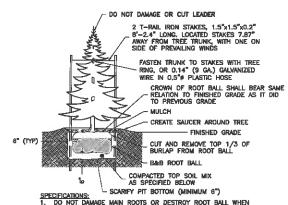




LANDSCAPE NOTES:

- ALL PLANT MATERIALS AND PLANTING PROCEDURES SHALL BE IN ACCORDANCE WITH THE STANDARDS AS SET FORTH BY THE AMERICAN ASSOCIATION OF NUSERYMEN.
- 2. MULCH SHALL BE FINELY SHREDDED HARDWOOD BARK MULCH. DO NOT COVER THE ROOT CROWN OF TREES OR SHRUBS WITH MULCH. CUIT TWINE AWAY FROM THE BASE OF THE TRUNK OR STEM AND PULL BURLAP DOWN AND OFF OF THE BALL TOP.
- PLANTING BACKFILL MIX SHALL BE ON PART LOOSE PEAT HUMUS, TO ONE PART SAND, TO ONE PART PARENT SOIL BY VOLUME.
- 4. SOIL SHALL BE AMENDED WITH THE FOLLOWING: 0.25LBS ORGANIC GRANULAR FERTILIZER (5-10-5), 0.75LBS OF BONEMEAL, 1.0LBS OF ROTTED COW MANURE FER CUBIC FOOT OF MIX.
- THE CONTRACTOR SHALL WARRANTY ALL PLANTS AND MATERIALS FOR TWO YEARS FROM OWNERS ACCEPTANCE. ALL REPLACEMENTS SHALL BE AS ORIGINALLY SPECIFED.
- 6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LOCATION PROTECTION AND REPLACEMENT OF ANY LITLITIES DAMAGED ON SITE. FIELD ADJUST PLANT LOCATIONS TO AVOID LITLITIES, SWALES, OVERHEAD WIRES, EXISTING VEGETATION TO REMAIN ETC.
- LEASEE IS RESPONSIBLE FOR THE COST AND MAINTENANCE OF ALL LANDSCAPING.
- 8. ALL PLANT MATERIALS MUST BE INSTALLED EQUAL TO OR GREATER THAN THE MINIMUM SIZES SPECIFIED. NO GENIS OR SPECIES SUBSTITUTIONS ALLOWED WITH THE LANDSCAPE ARCHITECTS APPROVAL. ALL PLANTS WILL BE INSPECTED AND MEASURED FOR CAMBELL COUNTY COMPLIANCE, PRIOR TO ISSUANCE OF A CERTIFICATE OF OCCUPANCY PERMIT.

	PLANTING SCHEDULE	
QUANTITY	ECTANICAL - COMMON NAME	SIZE
14	PINUS STROBUS - EASTERN WHITE PINE	8"-10" BB



SPECIFICATIONS:

SPECIFICATIONS:

DO NOT DAMAGE MAIN ROOTS OR DESTROY ROOT BALL WHEN INSTALLING TREE STAKE.

WATER THOROUGHLY AFTER INSTALLATION.

REMOVE TREE RINGS AND STAKES TWO YEARS AFTER INSTALLATIONS

PROVIDED DRAINAGE FOR PLANTING PIT IN IMPERMEABLE SOIL.

TOPSOIL MIX, SEE SPEC.

TREE PLANTING AND GUYING DETAIL
L-1 NTS







NB+C ENGINEERING SERVICES, LLC.
443 WATERFRONT DRIVE, SUITE 103
01.5H ALLEN VA. 20081
00.4544-4678



1831 RADY COURT RICHMOND, VA 23222

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"SEMINOLE SQUARE"
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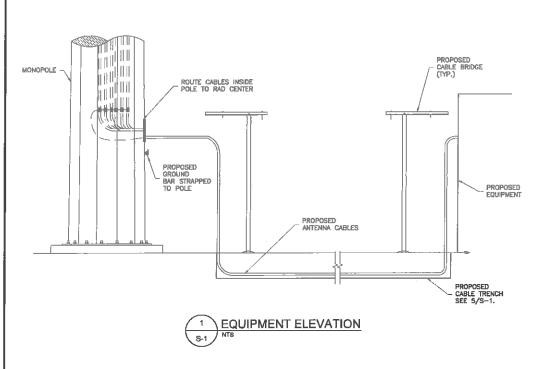
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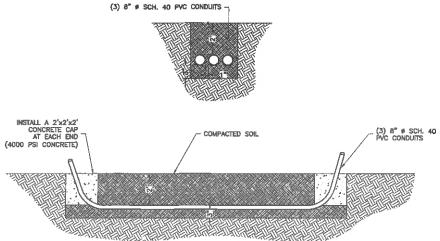
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LANDSCAPING PLAN

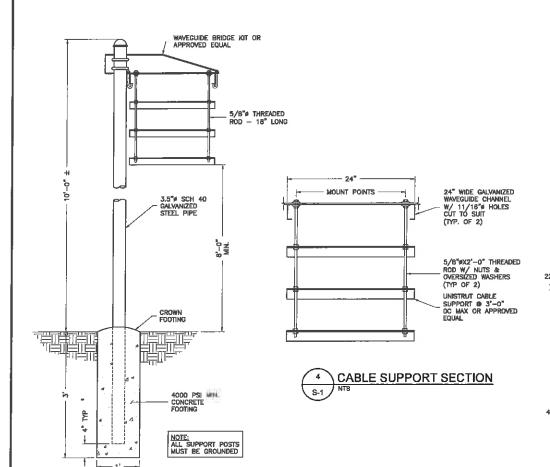
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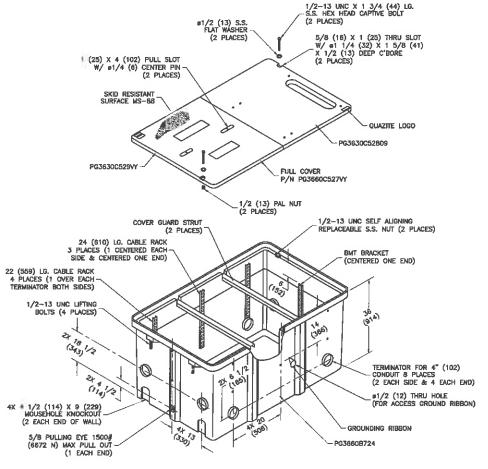


2 (3) 6" CONDUITS



3 CABLE BRIDGE DETAIL

S-1



5 STRONGWELL DETAIL
8-1 NTS

CONCRETE GENERAL NOTES

- ALL CONCRETE WORK SHALL, CONFORM TO ACI 318, "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE" AND TO THE PROJECT SPECIFICATIONS.
- ALL CONCRETE IS TO BE NORMAL DENSITY CONCRETE WITH A MAXIMUM SLUMP OF 4 INCHES, MAXIMUM AGGREGATE SIZE 3/4 INCH. NO ADDITIONAL WATER SHALL BE ADDED TO THE CONCRETE AT THE JOB SITE.
- 3. PROVIDE AIR ENTRAINMENT OF 4 TO 8 PERCENT IN ALL EXPOSED CONCRETE WORK WITH AIR—ENTRAINING ADMIXTURE COMPLYING WITH ASTM C 280. AT TROWEL-FINISMED FLOORS, DO NOT EXCEED AIR—ENTRAINMENT CONTENT OF 3 PERCENT.
- 4. NO HOLES OR SLEEVES SHALL BE MADE THROUGH CONCRETE WORK OTHER THAN THOSE INDICATED ON THE STRUCTURAL DRAWNESS WITHOUT THE APPROVAL OF THE STRUCTURAL ENUMBER
- 5. ALL FORMWORK OFFSET TOLERANCES (PER ACI 117) TO BE CLASS
- 6. FLOOR SLAB TOLERANCES TO ASTM E1155; SPECIFIED OVERALL MINIMUM VALUE OF FLATNESS F F=25 WITH LOCAL MINIMUM F F=17. AND MINIMUM VALUE OF LEVELNESS F F=20 WITH LOCAL MINIMUM F I AND F F WITHIN 72 HOURS OF SLAB CONSTRUCTION.
- 7. CABINETS ON SLAB (IF APPLICABLE). ALLOWABLE CAPACITY OF CONCRETE USED IN DESIGN MIN. 3500 PSI.

FOUNDATION: NOTES:

1. DESIGN INFORMATION AND GENERAL REQUIREMENTS

- A. DESIGN CONFORMS TO INTERNATIONAL BUILDING CODE 2009.
- AMERICAN CONCRETE INSTITUTE "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE," ACI 318—99.

2. EARTHWORK

2.1 FOUNDATIONS

- A. FOUNDATIONS HAVE BEEN DESIGNED TO BEAR ON (UNDISTURBED FOUNDATIONS HAVE BEEN DESIGNED TO BEAR ON (UNDISTURBED RESIDUAL SOILS/COMPACTED STRUCTURAL FILL), CAPABLE OF SAFELY SUPPORTING A NET ALLOWABLE BEARING PRESSURE OF 2000 PSF. IF FOUNDATION CONDITIONS PROVE UNACCEPTABLE AT ELEVATIONS SHOWN, EXCAVATION SHALL BE CARRIED BEEPER AND SHALL BE BACKFILLED WITH LEAN CONCRETE TO PLAN FOOTING BOTTOM, OR REDESIGN OF FOUNDATIONS WILL BE REQUIRED AT THE DIRECTION OF THE ENGINEER.
- B. DESIGN, FURNISH AND INSTALL ALL TEMPORARY SHEETING, SHORING AND DRAINAGE NECESSARY TO MAINTAIN THE EXCAVATION AND PROTECT SURROUNDING STRUCTURES AND UTILITIES.
- C. THOROUGHLY COMPACT ALL BOTTOM OF FOOTINGS PRIOR TO PLACING ANY CONCRETE.

3. CONCRETE

- CONCRETE CONSTRUCTION SHALL CONFORM TO "SPECIFICATIONS FOR STRUCTURAL, CONCRETE FOR BUILDINGS," (ACI 301-89).
- B. FORMWORK SHALL CONFORM TO ACI 301 "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS."

3.2 REINFORCEMENT

- A. REINFORCING STEEL ASTM A615, GRADE 60, WELDED WIRE ASTM A185 (FLAT SHEET). LAPS 40 BAR DIAMETERS UNLESS NOTED.
 BARS SHALL BE SECURELY HELD IN ACCURATE POSITION BY
 SUITABLE ACCESSORIES, THE BARS, SUPPORT BARS, ETC. HOOK
 LENGTHS SHALL BE 12 BAR DIAMETERS.
- 1-1/2"

3.3 CAST~IN-PLACE-CONCRETE

A. MINIMUM 28 DAY CYLINDER STRENGTH AND MAXIMUM SLUMP, PRIOR TO ADDITION OF SUPER PLASTICIZERS, AS FOLLOWS:

SLUMP	FC (P
CLASS I FOOTINGS	4000
CLASS II FOOTINGS	4000
3" CLASS III INTERIOR ELEVATED	4000
4" SLABS & WALLS CLASS V OTHER WORK	4000
CLASS VI LEAN CONCRETE FOR OVER EXCAVATION OF FOUNDATIONS , , , , , , , , , , , , , , , , , , ,	2000

- B. MIX DESIGN TO BE IN ACCORDANCE WITH ACI 318, CHAPTER 5. NO CALCIUM CHLORIDE OR ADMIXTURE CONTAINING CHLORIDES SHALL BE USED IN ANY CONCRETE.
- C. COARSE AGGREGATE FOR NORMAL WEIGHT CONCRETE SHALL CONFORM TO ASTM C33 SIZE #57. COARSE AGGREGATE FOR LIGHT WEIGHT CONCRETE SHALL CONFORM TO ASTM C330 GRADED 3/4"
- D. COLD WEATHER PLACEMENT SHALL COMPLY WITH ACI 306.1
- E. HOT WEATHER PLACEMENT SHALL COMPLY WITH ACI 305 R.
- F. CHAMFER ALL EXPOSED EDGES 3/4".
- G. THE MAXIMUM TEMPERATURE OF ALL CONCRETE AT DELIVERY TO THE SITE SHALL BE 85°F, TOTAL DELIVERY TIME SHALL BE LESS THEN 75 MINUTES.



NB+C ENGINEERING SERVICES, LLC.



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"SEMINOLE SQUARE" **VERIZON COLLOCATION** NB+C PROJ. #27074 195 GEORGETOWN RD CHARLOTTESVILLE, VA 22901 ALBEMARLE COUNTY

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THENT TRAVIS SNAPP PROFESSIONAL Lic. No. 049978 DATE 01/12/16 S'STONAL

ENGINEER

TRENT T, SNARR, P.E. VA PROFESSIONAL ENGINEER LIC, #49978

CONSTRUCTION **DETAILS & NOTES**

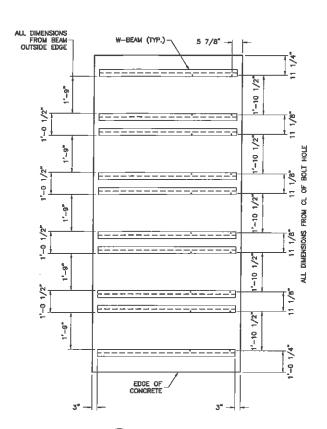
UTILITY STAND NOTES:

- 1. UTILITY STAND PIPES SHALL BE CONSTRUCTED OF 3" SCH 40 (3.5" O.D.) ICE BRIDGE POST CUT TO A LENGTH NO LESS THAN 13'-4".
- 2. ALL UTILITY STAND POSTS SHALL BE INSTALLED TO THE SAME ELEVATION RELATIVE TO THE CONCRETE PAD

NO CONDUIT SHALL RUN VERTICALLY THROUGH CONCRETE PAD.

FRAMING PLAN NOTES:

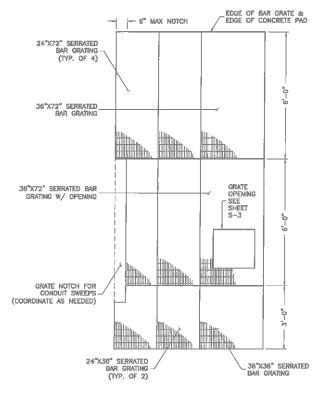
- STEEL, FRAMING IS DESIGNED TO SUPPORT LUCENT EQUIPMENT.
- POST INSTALLED EXPANSION ANCHORS SHALL BE HILTI KWIK BOLT 3, ALL ANCHORS SHALL BE INSTALLED WITH HILTI MUTS AND WASHERS.
- ALL BEAMS ARE TO BE EITHER GALVANIZED W6x8.5 OR W6x9 UNLESS OTHERWISE NOTED.
- 4. BOLT HOLES IN BEAMS ARE FOR 9712 CABINET ATTACHMENT. EZBFO SHALL ATTACH DIRECTLY TO THE GRATE.



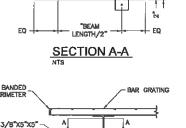
FRAMING PLAN

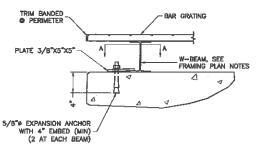
SCALE: 1/2" = 1'-0"

- BAR GRATING SHALL BE WELDED STEEL WITH 1" x 3/16" BAR SIZE. MAIN BARS TO BE SPACED 1 3/16" OC MAXIMUM AND CROSS BAR SPACING SHALL NOT EXCEED 4" OC. ALL GRATING SHALL HAVE A PRIMARY GALYANIZED FINISH, ALL WALKING SURFACES SHALL BE SERRATED.
- BAR GRATING CAN BE NOTCHED TO ALLOW FOR CONDUITS SWEEPS FROM UTILITY STAND CABINET. NOTCHING SHALL BE COORDINATED TO NOT EXCEED THE OUTLINE(S) OF THE CABINET(S) ABOVE.
- 4. ALL GRATE CUTTING SHALL BE GROUND SMOOTH OR COVERED TO PREVENT ABRASION OF CONDUIT OR CABLES



GRATE PLAN SCALE: 1/2" = 1'-0"





8 TYPICAL FRAMING ATTACHEMENT





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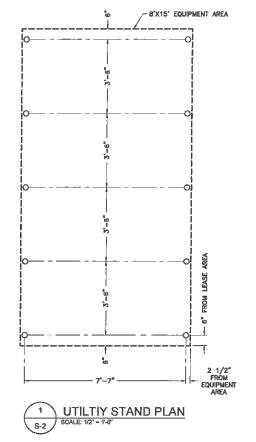


TRENT T. SNARR, P.E.
VA PROFESSIONAL ENGINEER LIC. #49978

SHEETTITLE

EQUIPMENT CONCRETE PAD & STEEL PLATFORM **DETAILS**

SHEET NUMBER



- 2" FROM FACE OF POST

EQUIPMENT PAD & POST FOUNDATION

- EQUIPMENT PAD

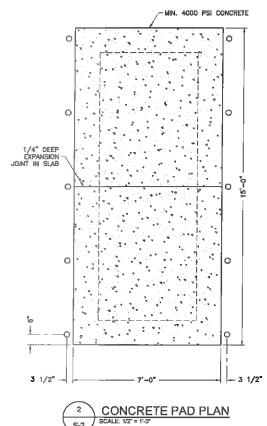
6" MINIMUM COMPACTED SUBGRADE

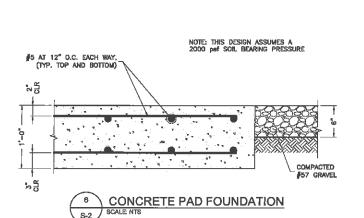
NO.57 COARSE AGGREGATE

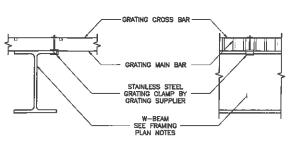
3.5" O.D.

UTILITY STAND POST -

S-2



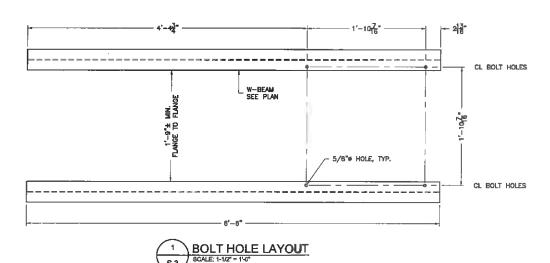




TYPICAL GRATING ATTACHMENT

STRUCTURAL NOTES

- DESIGN REQUIREMENTS PER INTERNATIONAL BUILDING CODE 2012 AND THE EIA/TIA-222-G STRUCTURAL STANDARDS FOR STEEL ANTENNA TOWERS AND ANTENNA SUPPORTING STRUCTURES.
- INFORMATION SHOWN ON THESE DRAWINGS WAS OBTAINED BY FIELD MEASUREMENT AND FROM THE EXISTING STRUCTURAL DRAWINGS. THE GENERAL CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AND NOTIFY THE ARCHITECT/EMGINEER OF ANY DISCREPANCIES PRIOR TO ORDERING MATERIALS OR PROCEEDING WITH CONSTRUCTION.
- 3. STRUCTURAL STEEL SHALL CONFORM TO THE LATEST EDITION OF THE AISC SPECIFICATIONS FOR STRUCTURAL STEEL BUILDINGS ALLOWABLE STRESS DESIGN AND PLASTIC DESIGN INCLUDING THE COMMENTARY AND THE AISC CODE FOR STANDARD PRACTICE.
- 4. STRUCTURAL STEEL PLATES AND SHAPES SHALL CONFORM TO ASTM A38. ALL STRUCTURAL STEEL PIPES SHALL CONFORM TO ASTM A53 GRADE B. ALL STRUCTURAL STEEL COMPONENTS AND FABRICATED ASSEMBLIES SHALL BE HOT DIP GALVANIZED AFTER FABRICATION.
- 5. WELDING SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF AMERICAN WELDING SOCIETY (AWS) STRUCTURAL WELDING CODE STEEL WELD ELECTRODES SHALL BE E70XX.
- 6. ALL COAXIAL CABLE CONNECTORS AND TRANSMITTER EQUIPMENT SHALL BE AS SPECIFIED BY THE OWNER AND IS NOT INCLUDED IN THESE CONSTRUCTION DOCUMENTS. THE CONTRACTOR SHALL FURNISH ALL CONNECTION HARDWARE REQUIRED TO SECURE THE CABLES. CONNECTION HARDWARE SHALL BE STAINLESS STEEL.
- 7. ALL THREADED STRUCTURAL FASTENERS AND THREADED ROD FOR ANTENNA SUPPORT ASSEMBLIES SHALL CONFORM TO ASTM A307 OR ASTM A38. ALL STRUCTURAL FASTENERS FOR STRUCTURAL STEEL FRAMING SHALL CONFORM TO ASTM A325. FASTENERS SHALL BE 5/8" MIN. DIAMETER BEARING TYPE CONNECTIONS WITH THREADS INCLUDED IN THE SHEAR PLANE, ALL EXPOSED FASTENERS, MUTS AND WASHERS SHALL BE CALVANIZED UNLESS OTHERWISE NOTED. CONCRETE EXPANSION ANCHORS SHALL BE HILTI KWIK BOLTS UNLESS OTHERWISE NOTED.
- B. NORTH ARROW SHOWN ON PLANS REFERS TO TRUE NORTH. CONTRACTOR SMALL VERIFY TRUE NORTH AND INFORM CONSTRUCTION MANAGER OF ANY DISCREPANCY BEFORE STARTING CONSTRUCTION.



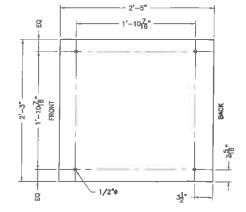
MINIMUM MATERIAL TAKEOFF

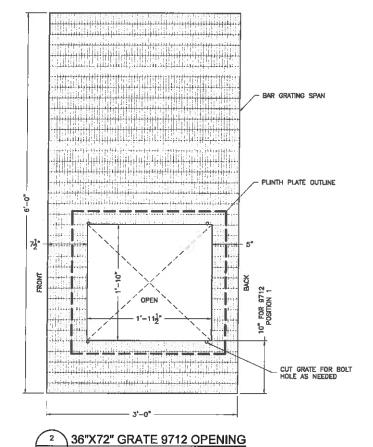
UTILITY STAND:

- (7) 15' LONG P1000 UNISTRUT UNISTRUT PIPE CLAMF FOR EACH INTERSECTION OF SUPPORT PIPE AND UNISTRUT UNISTRUT END CAPS FOR EACH EXPOSED END OF UNISTRUT
- (10) 3" STD (3.5" O.D.) SCHEDULE 40 GALVANIZED PIPE, 13'-4" MINIMUM LENGTH
- (10) GALVANIZED STEEL PIPE CAPS FOR 3.5" O.D. PIPE
- 15' LINEAR, 24" ICE BRIDGE
- (5) ICE BRIDGE PIPE ATTACHMENTS
- (2) COAXIAL CABLE TRAPEZE KITS

EQUIPMENT FRAME:

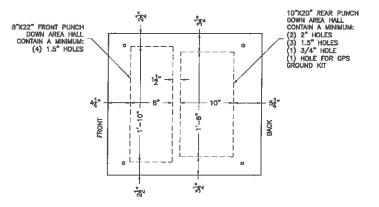
- * (4) 24" X 72" SERRATED SURFACE GALVANIZED 1" X 3/16" MM GRATE
- (2) 24" X 36" SERRATED SURFACE GALVANIZED 1" X 3/16" BAR GRATE
- (2) 36" X 72" SERRATED SURFACE GALVANIZED 1" X 3/16" BAR GRATE (NON-SERRATED GALVANIZED OPTIONAL FOR GRATE DIRECTLY BELOW LUCENT EQUIPMENT)
- (1) 36" X 36" SERRATED SURFACE GALVANIZED 1" X 3/16" BAR GRATE
- (10) W6XB.5 OR W6X9 GALVANIZED BEAMS
- (1) 29 X 27" X 1/8" PLINTH PLATE ASSOCIATED ATTACHMENT AND ANCHORING HARDWARE AS NEEDED PER SPECIFICATIONS





PLINTH PLATE NOTES

- ALL UNUSED PUNCHED HOLES SHALL BE SEALED WITH SCREW TIGHT METAL KNOCK OUT PLUGS. GARDNER BENDER KNOCKOUT SEALS OR EQUIVALENT.
- PUNCH DOWN AREAS ARE COORDINATED WITH ALU 9712 EQUIPMENT PLINTH, ALL HOLES AND FITTINGS SHALL BE COMPLETELY WITHIN THIS PUNCH DOWN AREAS SHOWN,



3 29"X27"X1/8" PLINTH PLATE
SCALE: 1-1/2" = 1'-10"

GINEEN



NB+C ENGINEERING SERVICES, LLC.

4435 WATER-FRONT DRIVE, SUITE 100
GLEN ALLEN. VA 22080
BASEALO78

PUCANT



1831 RADY COURT RICHMOND, VA 23222

NEORWATION

"SEMINOLE SQUARE"
VERIZON COLLOCATION
NB+C PROJ. #27074
195 GEORGETOWN RD
CHARLOTTESVILLE, VA 22901
ALBEMARLE COUNTY

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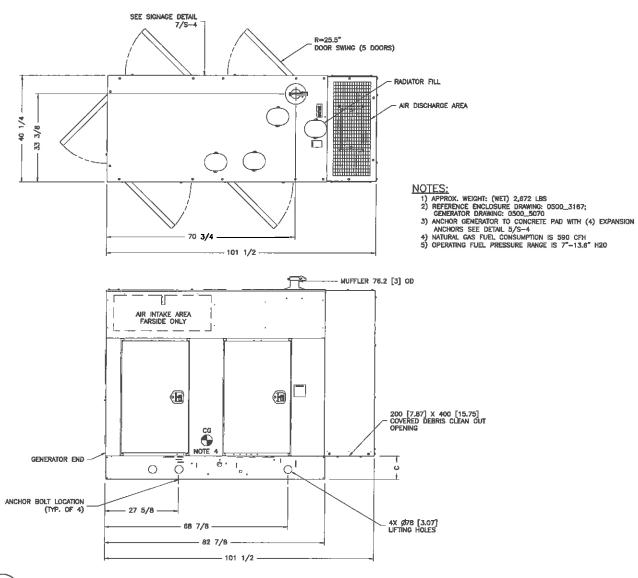
ENGINEER

TRENT T. SNARR, P.E. VA PROFESSIONAL ENGINEER LIC. #49978

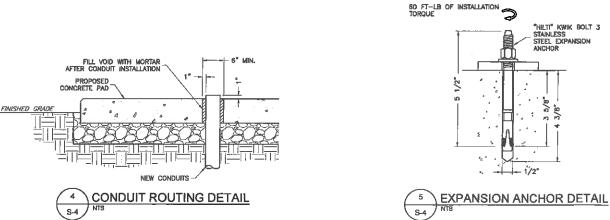
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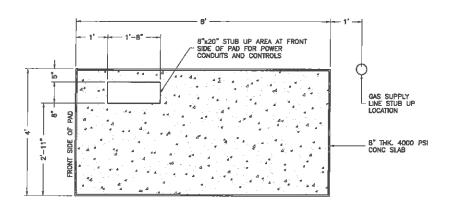
EQUIPMENT STEEL PLATFORM DETAILS

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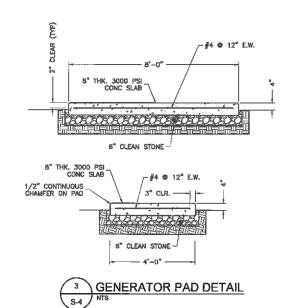


1 40KW GGPB CUMMINS POWER GENERATION NATURAL GAS GENERATOR DETAIL





GENERATOR PAD DETAIL
S-4 NTS







	NBIC
II	TOTALLY COMMITTED.
	NB+C ENGINEERING SERVICES, LLC.

Verizonwireless
1831 RADY COURT

RICHMOND, VA 23222

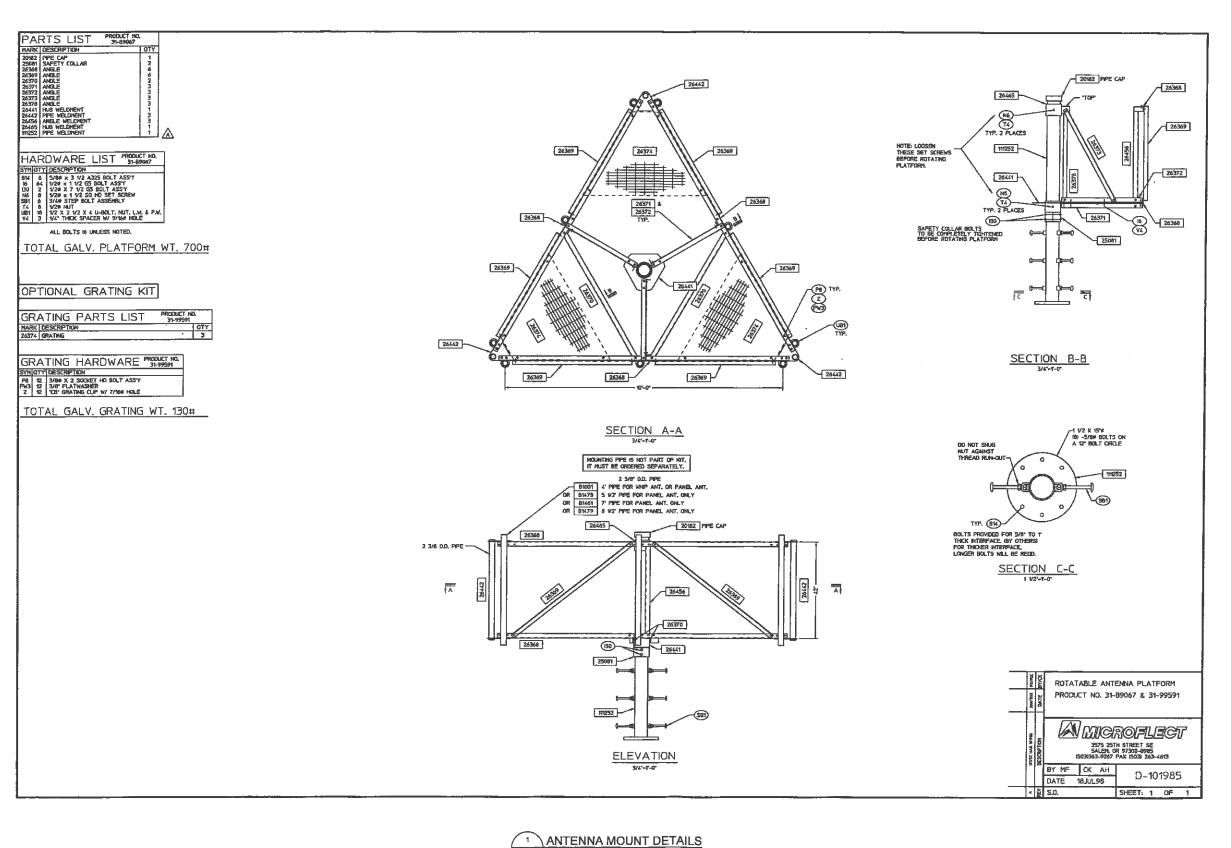
"SEMINOLE SQUARE"
VERIZON COLLOCATION
NB+C PROJ. #27074
195 GEORGETOWN RD
CHARLOTTESVILLE, VA 22901
ALBEMARLE COUNTY

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CHAPTER OF THE PROPERTY OF THE

TRENT T. SNARR, P.E.
VA PROFESSIONAL ENGINEER LIC, #49978

GENERATOR DETAILS



TOTALLY COMMITTED.

NB+C ENGINEERING SERVICES, LLC.

Veri<u>70</u>nwireless

1831 RADY COURT RICHMOND, VA 23222

"SEMINOLE SQUARE" VERIZON COLLOCATION NB+C PROJ. #27074 195 GEORGETOWN RD CHARLOTTESVILLE, VA 22901 ALBEMARLE COUNTY

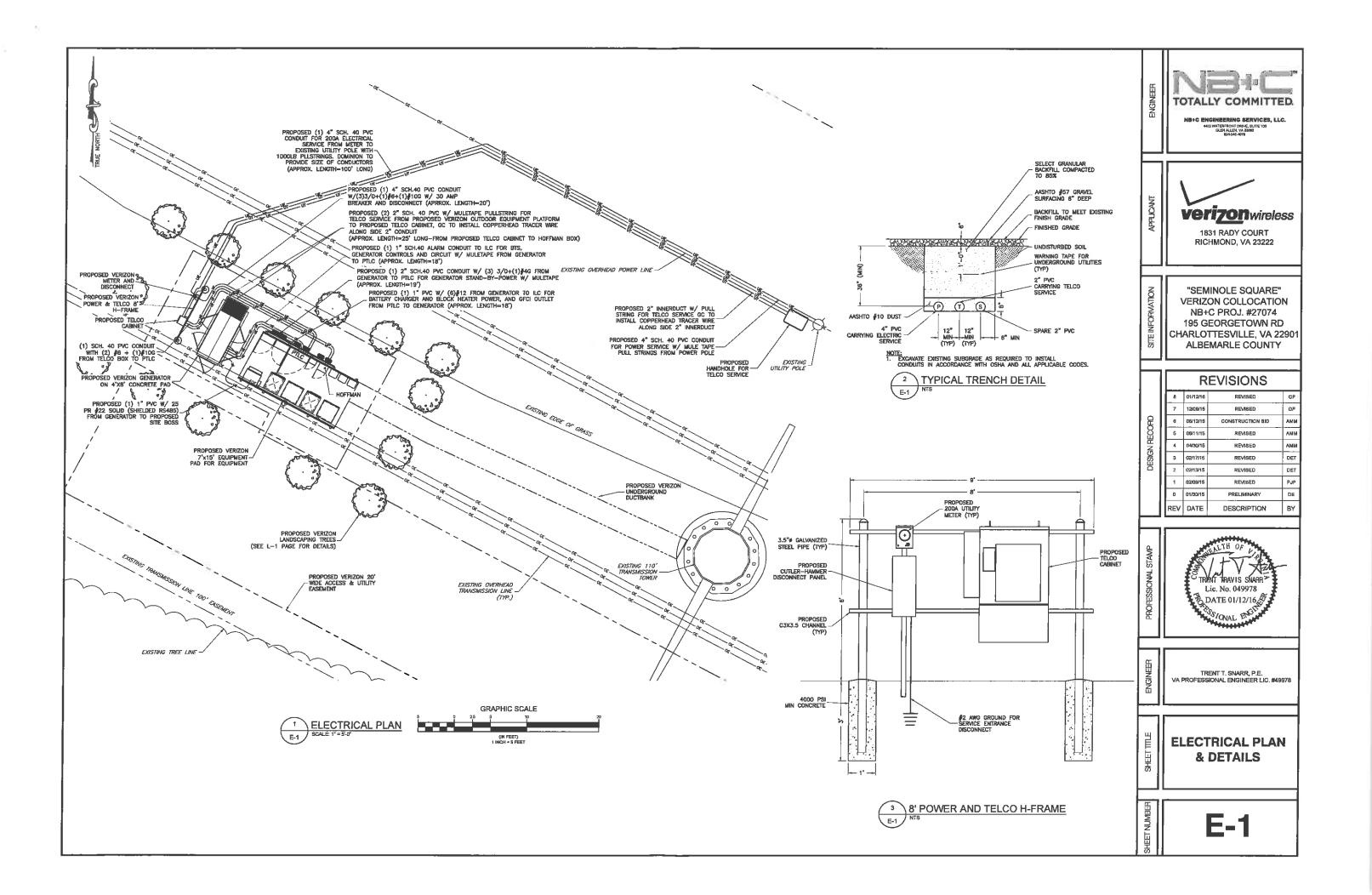
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Lic. No. 049978 DATE 01/12/16

TRENT T. SNARR, P.E. VA PROFESSIONAL ENGINEER LIC. #49978

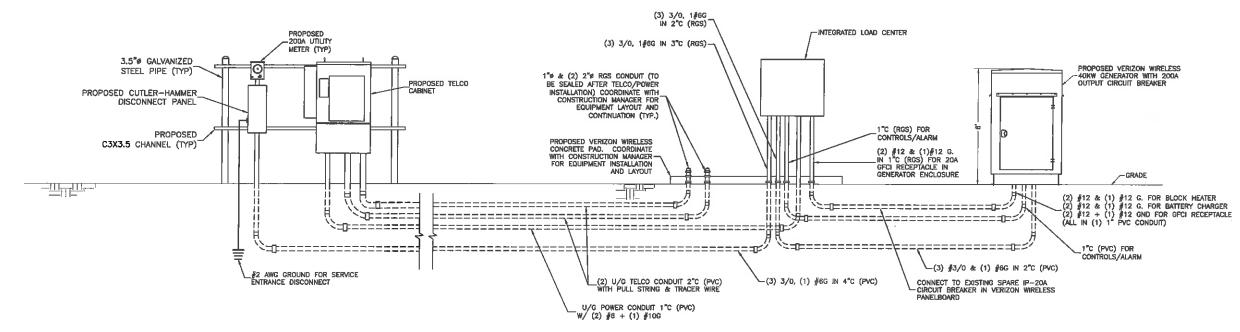
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ANTENNA MOUNT DETAILS



NOTES:

- FINAL UTILITY DESIGN AND ROUTING TO BE CONFIRMED WITH VERIZON WIRELESS C.M., LOCAL UTILITY COMPANY AND PROPERTY OWNER PRIOR TO CONSTRUCTION.
- TIE ELECTRICAL SERVICE INTO PROPOSED GENERATOR/TRANSFER SWITCH. CONFIRM ALL WIRE SIZES WITH MANUFACTURER PRIOR TO CONNECTION.



1 ELECTRICAL RISER DIAGRAM AND SERVICE ENTRANCE (SCHEMATIC)
E-2 NTS

Know what's below.
Call before you dig.

TOTALLY COMMITTED

NB+C ENGINEERING SERVICES, LLC. 4425 WATERFRONT DRIVE, SUITE 100 GLBN ALLEN, VA 2000 804-54-4079



1831 RADY COURT RICHMOND, VA 23222

c

"SEMINOLE SQUARE"
VERIZON COLLOCATION
NB+C PROJ. #27074
195 GEORGETOWN RD
CHARLOTTESVILLE, VA 22901
ALBEMARLE COUNTY

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PROFESSIONAL STAMP



TRENT T. SNARR, P.E.
VA PROFESSIONAL ENGINEER LIC. #49978

ELECTRICAL RISER
DIAGRAM &
SERVICE ENTRANCE
SCHEMATIC

HEET NUMBER

E-2

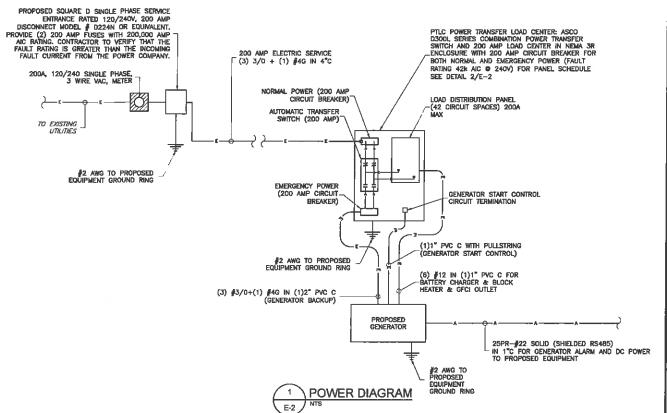
ELECTRICAL NOTES

- SUBMITTAL OF BID INDICATES THAT THE CONTRACTOR IS COGNIZANT OF ALL JOB SITE CONDITIONS AND WORK TO BE PERFORMED UNDER THIS CONTRACT
- CONTRACTOR SHALL PERFORM ALL VERIFICATIONS, OBSERVATION TESTS, AND EXAMINATION WORK PRIOR TO ORDERING OF ANY EQUIPMENT AND THE ACTUAL CONSTRUCTION. CONTRACTOR SHALL ISSUE A WRITTEN NOTICE OF ALL FINDINGS TO THE PROJECT MANAGER LISTING ALL MALFUNCTIONS, FAULTY EQUIPMENT AND DISCREPANCIES.
- 3. VERIFY HEIGHTS WITH PROJECT MANAGER PRIOR TO INSTALLATION.
- 4. THESE PLANS ARE DIAGRAMMATIC ONLY, FOLLOW AS CLOSELY AS POSSIBLE.
- 5. CONTRACTOR SHALL COORDINATE ALL WORK BETWEEN TRADES AND ALL
 OTHER SCHEDULING AND PROVISIONARY CIRCUMSTANCES SURROUNDING THE
 PROJECT.
- CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS, INSURANCE, EQUIPMENT, INSTALLATION CONSTRUCTION TOOLS, TRANSPORTATION, ETC., FOR COMPLETE AND FUNCTIONALLY OPERATING SYSTEMS ENERGIZED AND READY FOR USE THROUGHOUT AS INDICATED ON DRAWINGS, AS SPECIFIED HEREIN AND/OR AS OTHERWISE REQUIRED.
- 7. ALL MATERIALS AND EQUIPMENT SHALL BE NEW AND IN PERFECT CONDITION WHEN INSTALLED AND SHALL BE OF THE BEST GRADE AND OF THE SAME MANUFACTURER THROUGHOUT FOR EACH CLASS OR GROUP OF EQUIPMENT. ELECTRICAL MATERIALS SHALL BE LISTED AND APPROVED BY UNDERWRITER'S LABORATORIES AND SHALL BEAR THE INSPECTION LABEL "J" WHERE SUBJECT TO SUCH APPROVAL MATERIALS SHALL MEET WITH APPROVAL OF ALL GOVERNING BODIES HAVING JURISDICTION GVER THE CONSTRUCTION. MATERIALS SHALL BE MANUFACTURED IN ACCORDANCE WITH ALL CURRENT APPLICABLE STANDARDS ESTABLISHED BY ANSI, NEMA AND NBFU, ALL MATERIALS AND EQUIPMENT SHALL BE APPROVED FOR THEIR INTENDED USE AND LOCATION.
- ALL WORK SHALL COMPLY WITH ALL APPLICABLE GOVERNING STATE, COUNTY AND CITY CODES AND OSHA, NFPA, NEC & ASHRAE REQUIREMENTS.
- 9. ENTIRE JOB SHALL BE GUARANTEED FOR A PERIOD OF ONE (1) YEAR AFTER THE DATE OF JOB ACCEPTANCE. ALL WORK, MATERIAL AND EQUIPMENT FOUND TO BE FAULTY DURING THAT PERIOD SHALL BE CORRECTED AT ONCE, UPON WRITTEN NOTIFICATION, AT THE EXPENSE OF THE CONTENTION.
- PROPERLY SEAL ALL PENETRATIONS, PROVIDE UL LISTED FIRE—STOPS WHERE PENETRATIONS ARE MADE THROUGH FIRE—RATED ASSEMBLIES. WATER—TIGHT USING SILICONE SEALANT.
- 11. DELIVER ALL BROCHURES, OPERATING MANUALS, CATALOGS AND SHOP DRAWINGS TO THE PROJECT MANAGER AT JOB COMPLETION. PROVIDE MAINTENANCE MANUALS FOR MECHANICAL EQUIPMENT. AFFIX MAINTENANCE LABELS TO MECHANICAL EQUIPMENT.
- 12. ALL CONDUCTORS SHALL BE COPPER. MINIMUM CONDUCTOR SIZE SHALL BE \$12 AWG., UNLESS OTHERWISE NOTED. CONDUCTORS SHALL BE TYPE THHW, RATED IN ACCORDANCE WITH NEC 110-14(C).
- ALL CIRCUIT BREAKERS, FUSES AND ELECTRICAL EQUIPMENT SHALL HAVE AN INTERRUPTING RATING NOT LESS THE MAXIMUM INTERRUPTING CURRENT TO WHICH THEY MAY BE SUBJECTED.
- 14. THE ENTIRE ELECTRICAL INSTALLATION SHALL BE GROUNDED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE; ARTICLES 250 & 810 AND THE

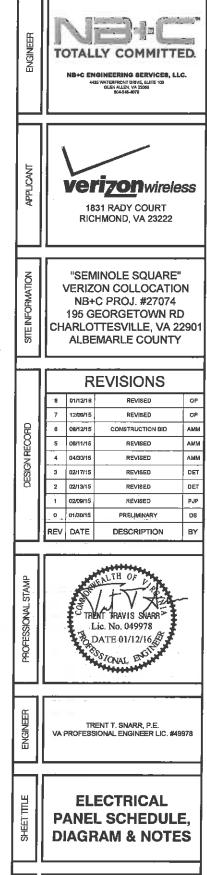
15. CONDUIT:

- A. RIGID CONDUIT SHALL BE U.L. LABEL GALVANIZED ZINC COATED WITH ZINC INTERIOR AND SHALL BE USED WHEN INSTALLED IN OR UNDER CONCRETE SLABS, IN CONTACT WITH THE EARTH, UNDER PUBLIC ROADWAYS, IN MASONRY WALLS OR EXPOSED ON BUILDING EXTERIOR. RIGID CONDUIT IN CONTACT WITH EARTH SHALL BE 1/2 LAPPED WRAPPED WITH HUNTS WRAP PROCESS NO. 3.
- B. ELECTRICAL METALLIC TUBING SHALL HAVE U.L. LABEL, FITTINGS SHALL BE GLAND RING COMPRESSION TYPE. EMT SHALL BE USED ONLY FOR INTERIOR RUNS.
- C. LIQUID-TIGHT FLEXIBLE METAL CONDUIT SHALL BE U.L. LISTED AND SHALL BE USED AT FINAL CONNECTIONS TO MECHANICAL EQUIPMENT & RECTIFIERS AND WHERE PERMITTED BY CODE. ALL CONDUIT IN EXCESS OF SIX FEET IN LENGTH SHALL CONTAIN A FULL-SIZE GROUND CONDUCTOR.
- D. CONDUIT RUNS SHALL BE SURFACE MOUNTED ON CEILINGS OR WALLS UNLESS NOTED OTHERWISE, ALL CONDUIT SHALL RUN PARALLEL OR PERPENDICULAR TO WALLS, FLOOR, CEILING, OR BEAMS. VERIFY EXACT ROUTING OF ALL EXPOSED CONDUIT WITH THE PROJECT MANAGER PRIOD TO INSTALLING.
- E. PVC CONDUIT MAY BE PROVIDED ONLY WHERE SHOWN, OR IN UNDERGROUND INSTALLATIONS. PROVIDE UV-RESISTANT CONDUIT WHERE EXPOSED TO THE ATMOSPHERE. PROVIDE GROUND CONDUCTOR IN ALL PVC RUNS; EXCEPT WHERE PERMITTED BY CODE TO OMIT.
- ALL ELECTRICAL EQUIPMENT SHALL BE LABELED WITH PERMANENT ENGRAVED PLASTIC LABELS. BACKGROUND SHALL BE BLACK WITH WHITE LETTERS; EXCEPT AS REQUIRED BY CODE TO FOLLOW A DIFFERENT SCHEME.
- 18. UPON COMPLETION OF WORK, CONDUCT CONTINUITY, SHORT CIRCUIT, AND FALL OF POTENTIAL GROUNDING TESTS FOR APPROVAL, SUBMIT TEST REPORTS TO PROJECT MANAGER, GROUNDING SYSTEM RESISTANCE SHALL NOT EXCEED 5 OHMS. IF THE RESISTANCE VALUE IS EXCEEDED, NOTIFY THE PROJECT MANAGER FOR FURTHER INSTRUCTION ON METHODS FOR REDUCING THE RESISTANCE VALUE.
- 19. CLEAN PREMISES OF ALL DEBRIS RESULTING FROM WORK AND LEAVE WORK IN A COMPLETE AND UNDAMAGED CONDITION. LEGALLY DISPOSE OF ALL REMOVED, UNUSED AND EXCESS MATERIAL GENERATED BY THE WORK OF THIS CONTRACT. DELIVER TIEMS INDICATED ON THE DRAWINGS TO THE OWNER IN GOOD CONDITION. OBTAIN SIGNED RECEIPT UPON DELIVERY.
- 20. COORDINATE WITH UTILITY COMPANY FOR CONNECTION OF TEMPORARY AND PERMANENT POWER TO THE SITE. THE TEMPORARY POWER AND ALL HOOKUP COSTS SHALL, BE PAID BY THE CONTRACTOR.
- 21. VERIFY ALL EXISTING CIRCUITRY PRIOR TO REMOVAL AND NEW WORK.
 MAINTAIN POWER TO ALL OTHER AREAS & CIRCUITS NOT SCHEDULED FOR
- RED LINED AS—BUILT PLANS SHALL BE PROVIDED TO THE CONSTRUCTION MANAGER.

- 23. INDOOR CONDUCTORS SHALL BE INSTALLED IN EMT UNLESS NOTED OTHERWISE. OUTDOOR CONDUCTORS SHALL BE INSTALLED IN RIGID GALVANIZED STEEL CONDUIT UNLESS NOTED OTHERWISE.
- 24. NY SMSA TO PROVIDE SURGE SUPPRESSOR FOR TELCO BOARD SERVING NEW EQUIPMENT, THE SURGE SUPPRESSOR TO BE INSTALLED BY CONTRACTOR AND GROUNDED TO MGB.
- 25. SEAL AROUND PENETRATIONS RESULTING FROM CONDUIT ROUTING WITH FIRE— STOPPING FOAM SEALANT HAVING A U.H. LISTED RATING OF 2 HOURS. HAMMER—DRILLING IS NOT PERMITTED. CORE—DRILLING TO BE COORDINATED WITH BUILDING OWNER'S REPRESENTATIVE.
- 26. PROVIDE (2) FUSES OF SIZE RECOMMENDED BY CONDENSING UNIT
 MANUFACTURER
- 27. PROVIDE SMOKE DETECTOR COMPATIBLE WITH EXISTING BUILDING FIRE ALARM SYSTEM. TIE TO LOCAL ZONE. COORDINATE WITH BUILDING OWNER'S FIRE ALARM SYSTEM CONTRACTOR. PROVIDE SENTROL 449GRT PHOTOELECTRIC SMOKE DETECTOR WITH AUXILIARY RELAY FOE ACU-1 SLI ITOMOST.
- 28. PROVIDE GENERATOR CONNECTOR RECEPTACLE AND ENCLOSED CIRCUIT BREAKER IN LOCATION SUITABLE FOR PORTABLE GENERATOR ACCESS. COORDINATE WITH BUILDING OWNER FOR EXACT LOCATION. PAINT TO MATCH EXISTING WALL COLOR.
- 29. PROVIDE ALARM TERMINAL CABINET HIGH/LOW ALARMS MOUNTED ON TELCO BOARD.
- 30. PROVIDE DOOR ALARM CONTACT.



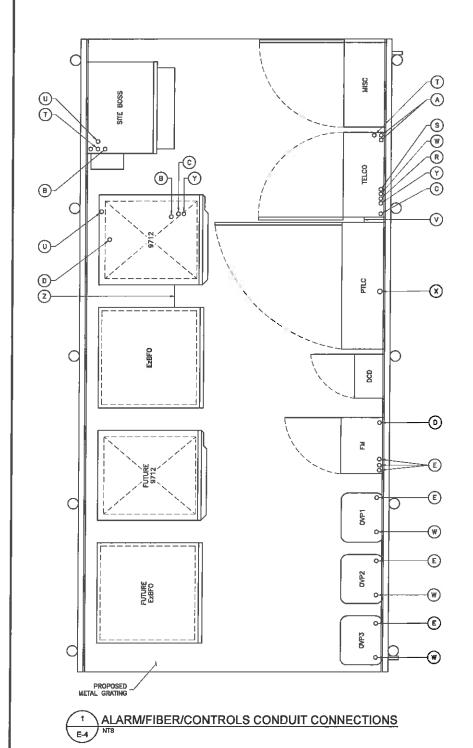
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A	В	CIRCUIT DESCR	GETION	CONDUCTOR	PULES	K	T	Ť	K	FULES	CONDUCTOR	CIRCUIT DESCRIPTION	A	
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1000	XXXX	GENERATOR BLOC	K HEATER	(2)#12+G	1	20	9	10	-	1	-	SPARE	-	*****
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EQUIP	MENT	6176	1.0	0	6176		Τ				PHAS	SE B WATTS = 3386		
RECEPT	ACLES	360	1.0	0	360		I				TOTAL CO	NNECTED LOAD KVA = 8.3		
MIS	SC	1300	1.0	0	1300		Т				TOTAL PA	NEL LOADING KvA = 8.3		
HV	AC	0	1.0	0	0		\mathbf{I}				TOTAL PA	NEL CAPACITY KvA = 48.0		
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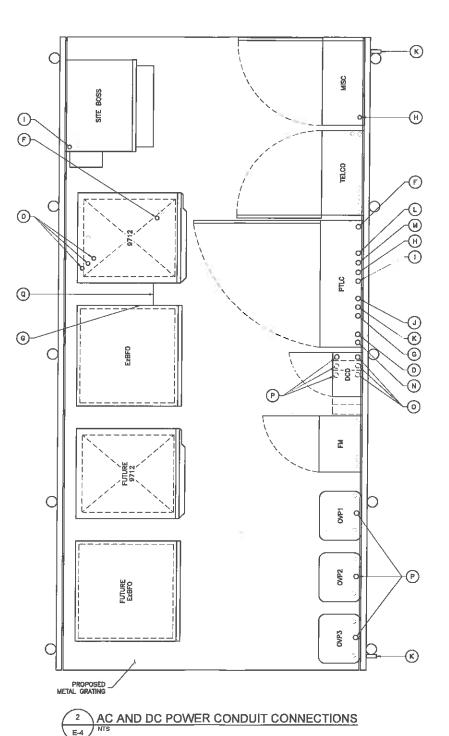


IEET NUMBER

E-3

PANEL SCHEDULE





PLATFORM CONDUIT NOTES

- A. 2-2" CONDUITS FROM FIBER PROVIDER INTO BOTTOM OF TELCO CABINET. EXCESS FIBER LENGTH TO BE NEATLY COLLED INSIDE TELCO CABINET.
- C. 1.5" CONDUIT FROM TELCO CABINET TO THE FRONT BOTTOM PLINTH PLATE OF THE PRIMARY 9712 CABINET.
- E. PROVIDE 1-1.5" CONDUIT FROM FIBER MANAGEMENT CABINET TO EACH OF 3 OVE'S.

- F. PROVIDE 1.5" CONDUIT FROM THE POWER/TRANSFER/LOADCENTER TO THE BOTTOM FRONT PLINTH PLATE OF THE 9712 CASINET. CONDUIT TO CONTAIN AC CONDUCTORS FOR THE 9712 CASINET AND EZEFO STRIP HEATERS.
- G. PROVIDE 1" CONDUIT FROM REAR OF PTLC TO SIDE OF EZBFo CABINET.
- H. 1/2" CONDUIT FROM REAR OF PTLC TO REAR OF MISC CABINET FOR GFCI QUAD RECEPTACLE.
- J. 1" CONDUIT FROM REAR OF PTLC CABINET TO GENERATOR BATTERY CHARGER/BLOCK HEATER.
- L. PROVIDE 2" CONDUIT FROM GENERATOR TO BOTTOM OF PTLC.
- M. PROVIDE 1.5" CONDUIT FROM REAR PTLC TO MESA CABINET DISCONNECT.

DC POWER CONDUITS

- 0. PROVIDE 1-1.5" CONDUIT FROM BOTTOM REAR PLINTH OF 9712 CABINET TO BOTTOM OF EACH OF 3 DCD BOXES.

ALARM/MISCELLANEOUS CONDUITS

- R. PROVIDE 1" ALARM CONDUIT FROM GENERATOR THROUGH TELCO CABINET **.
- S. PROVIDE 1" ALARM CONDUIT FROM PROPANE MONITOR THROUGH TELCO CABINET**
- T. PROVIDE 1.5" CONDUIT FROM BOTTOM OF TELCO CABINET TO BOTTOM OF SITE BOSS CABINET.
- V. PROVIDE 1" CONDUIT FROM SIDE OF PTLC TO SIDE OF TELCO CABINET.
- PROVIDE 3-1" CONDUITS FROM OVP'S TO TRANSITION INTO A SINGULAR 1" CONDUIT IN THE BOTTOM OF THE TELCO CABINET.
- X. PROVIDE 1" CONDUIT FROM PTLC TO GENERATOR CONTROL PANEL.
- Z. PROVIDE 2" CONDUIT FROM SIDE PLINTH OF 9712 CABINET TO SIDE OF EZBFo.
- *ASSUMING FIBER PROVIDER IS VERIZON.
 **OEDIERATOR AND PROPANE MONITOR ALARMS MAY ENTER DIRECTLY INTO THE SITE BOSS CABINET.

FIBER CONDUITS

- B. 1.5" CONDUIT FROM SITE BOSS THROUGH PLINTH TO BOTTOM OF 9712 CABINET.

- 1. 1/2" CONDUIT FROM REAR OF PTLC TO SIDE OF SITE BOSS CABINET QUAD RECEPTACLE.
- K. 1/2" CONDUIT FROM REAR OF PTLC CABINET TO LIGHT SWITCH.

- N. PROVIDE 2" CONDUIT FROM SERVICE DISCONNECT TO BOTTOM OF PTLC.
- P. PROVIDE 1-1.5" CONDUIT FROM THE BOTTOM OF EACH OF 3 DCD BOXES TO THE BOTTOM OF EACH OF 3 CVP'S.
- PROVIDE 2" CONDUIT FROM SIDE OF 9712 CABINET PLINTH TO SIDE OF EZBFo CABINET.

- U. PROVIDE 1.5" CONDUIT FROM BOTTOM OF SITE BOSS CABINET TO REAR SIDE PLINTH OF 9712 CABINET.

- Y. PROVIDE 1.5" CONDUIT FROM FRONT BOTTOM PLINTH OF 9712 CABINET TO BOTTOM OF TELCO CABINET.



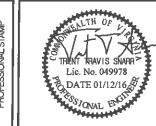
NB+C ENGINEERING SERVICES, LLC.



1831 RADY COURT RICHMOND, VA 23222

"SEMINOLE SQUARE" VERIZON COLLOCATION NB+C PROJ. #27074 195 GEORGETOWN RD CHARLOTTESVILLE, VA 22901 ALBEMARLE COUNTY

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TRENT T. SNARR, P.E. VA PROFESSIONAL ENGINEER LIC. #49978

ELECTRICAL CONDUIT **SCHEMATIC**

E-4

GROUNDING NOTES:

- ALL GROUNDING DEVICES SHALL BE U.L. APPROVED OR LISTED FOR THEIR INTENDED USE.

- GROUNDING CONNECTIONS TO GROUND BARS ARE TO BE TWO-HOLE BRASS MECHANICAL CONNECTORS WITH STAINLESS STEEL HARDWARE (INCLUDING SCREW SET) CLEAN GROUND BAR TO SHINY METAL. AFTER MECHANICAL CONNECTION, TREAT WITH PROTECTIVE ANTIOXIDANT COATING.
- GROUND COAXIAL CABLE SHIELDS AT BOTH ENDS WITH MANUFACTURER'S GROUNDING KITS.
- ROUTE GROUNDING CONDUCTORS THE SHORTEST AND STRAIGHTEST PATH POSSIBLE, BEND GROUNDING LEADS WITH A MINIMUM 12" RADIUS.
- 8. INSTALL #2 AWG GREEN—INSULATED STRANDED WIRE FOR ABOVE GRADE GROUNDING AND #2 TINNED SOLID COPPER WIRE FOR BELOW GRADE GROUNDING UNLESS OTHERWISE NOTED.
- . REFER TO GROUNDING PLAN FOR GROUND BAR LOCATIONS. GROUNDING CONNECTIONS SHALL BE EXCIPIENT TYPE ("CADWELDS") TO ANTENNA MOUNTS AND GROUND RING. REMAINING GROUNDING CONNECTIONS TO GROUND BARS SHALL BE MADE WITH TWO-HOLE LUGS.
- 10. THE GROUND ELECTRODE SYSTEM SHALL CONSIST OF DRIVEN GROUND RODS POSITION ACCORDING TO GROUNDING PLAN. THE GROUND RODS SHALL BE 5/8"X10"-0" COPPER CLAD STEEL INTERCONNECTED WITH \$12 THANED SOLID COPPER WIRE BURIED 36" BELOW GRADE. BURY GROUND RODS A MAXIMUM OF 15" APART, AND A MINIMUM OF 8" APART.

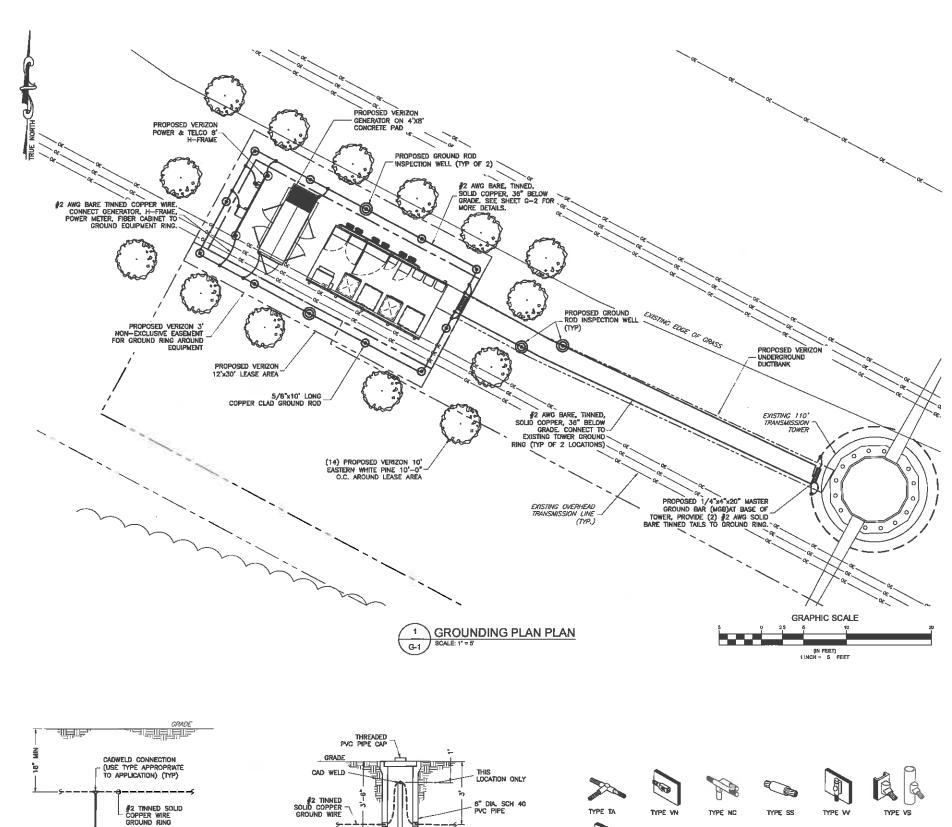
- 13. CONSTRUCTION OF GROUND RING AND CONNECTIONS TO EXISTING GROUND RING SYSTEM SHALL BE DOCUMENTED WITH PHOTOGRAPHS PRIOR TO BACKFILLING SITE. PROVIDE PHOTOS TO THE VERIZON CONSTRUCTION MANAGER.
- 14. ALL GROUND LEADS EXCEPT THOSE TO THE EQUIPMENT ARE TO BE #2 TINNED SOLID COPPER WIRE. ALL EXTERIOR GROUND BARS TINNED COPPER.
- 15. PRIOR TO INSTALLING LUGS ON GROUND WIRES, APPLY THOMAS & BETTS KOPK—SHIELD (TM OF JET LUBE INC.). PRIOR TO BOLTING GROUND WIRE LUGS TO GROUND BARS, APPLY KOPR—SHIELD OR EQUAL
- S. ENGAGE AN INDEPENDENT ELECTRICAL TESTING FIRM TO TEST AND VERIFY THAT IMPEDANCE ODES NOT EXCEED FIVE OHIMS TO GROUND BY MEANS OF "FALL OF POTENTIAL TEST". TEST SHALL BE WITNESSED BY A VERIFOON REPRESENTATIVE, AND RECORDED ON THE "GROUND RESISTANCE TEST" FIRM
- 17. WHERE BARE COPPER GROUND WIRES ARE ROUTED FROM ANY CONNECTION ABOVE GRADE TO GROUND RING, INSTALL WIRE IN 3/4" PVC SLEEVE, FROM 1' BELOW GRADE AND SEAL TOP WITH SILICONE
- 18. PREPARE ALL BONDING SURFACES FOR GROUNDING CONNECTIONS BY REMOVING ALL PAINT AND CORROSION DOWN TO SHINY METAL. FOLLOWING CONNECTION, APPLY APPROPRIATE ANTI-OXIDIZATION
- 19. ANY SITE WHERE THE EQUIPMENT (BTS, CABLE BRIDGE, PPC, GENERATOR, ETC.) IS LOCATED WITHIN 8 FEET OF METAL FENCING, THE GROUND RING SHALL BE BONDED TO THE NEAREST FENCE POST USING (3) RUNS OF #2 BARE TINNED COPPER WIRE.

1 COMPRESSION FITTING CONNECTION EXOTHERMIC WELD CONNECTION 5/8"X10" COPPER-CLAD STEEL GROUND ROD • 5/8"X10" COPPER-CLAD STEEL GROUND ROD WITH INSPECTION WELL

GROUNDING LEGEND

0 H--3H CGB

PROPOSED GROUND WIRING EXISTING GROUND WIRING TINNED COPPER GROUND BAR 1/4"X4"X12" OR 1/4"X4"X20" COLLECTOR GROUND BAR MAIN GROUND BAR MGB



5/8" DIA, COPPER CLAD GROUND ROD, TOTAL DEPTH IN SOIL TO

G-1

3 INSPECTION WELL DETAIL

TYPICAL GROUND ROD DETAIL

G-1/

9

TYPE VB

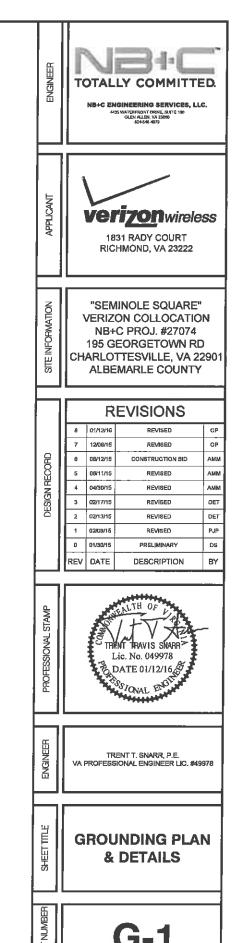
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TYPE PT

TYPE GT

TYPE GY

CADWELD GROUNDING CONNECTION DETAILS



G-1

TYPE GL

TYPE GR

NOTES THIS SHEET ONLY:

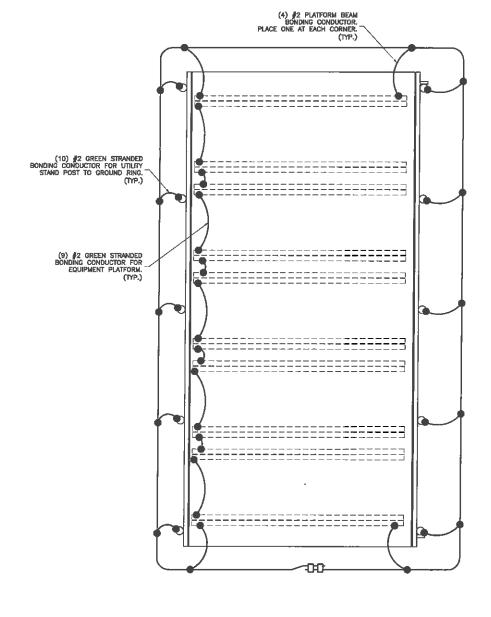
1. BELOW GRADE CROUND RING BONDS AND CONNECTIONS WILL BE EXOTHERMIC WELDS, NO EXCEPTIONS.

2. GROUND CONDUCTORS FROM GROUND RING TO PLATFORM OR EQUIPMENT WILL BE RUN IN 3/4" PVC CONDUIT AND SEALED WITH SILICONE.

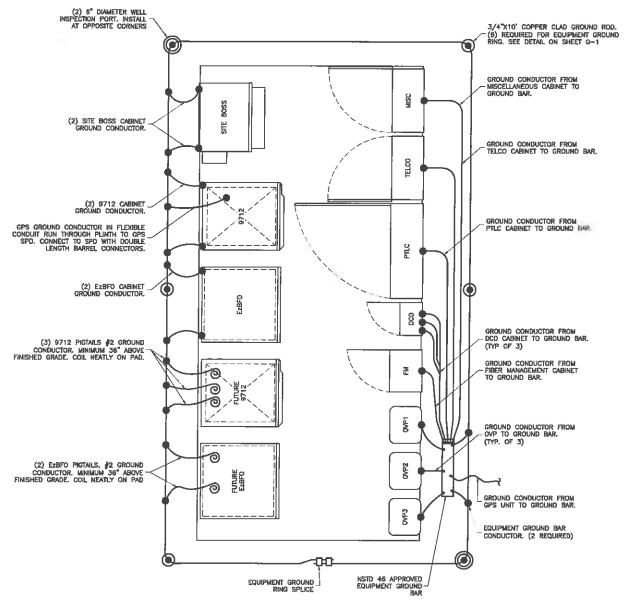
3. CONNECTIONS TO GROUND BAR WILL BE HIGH PRESSURE CRIMPED LONG BARREL 2—HOLE LUG.

NOTES:

1. RRH'S NOT SHOWN FOR CLARITY
2. RRH'S TO BE GROUNDED TO EQUIPMENT GROUND BAR



\PLATFORM BONDING TO GROUND RING DETAILS G-2



2 EQUIPMENT GROUNDING DETAILS G-2

TOTALLY COMMITTED.

NB+C ENGINEERING SERVICES, LLC.

Verizonwireless

1831 RADY COURT RICHMOND, VA 23222

"SEMINOLE SQUARE" VERIZON COLLOCATION NB+C PROJ. #27074 195 GEORGETOWN RD CHARLOTTESVILLE, VA 22901 ALBEMARLE COUNTY

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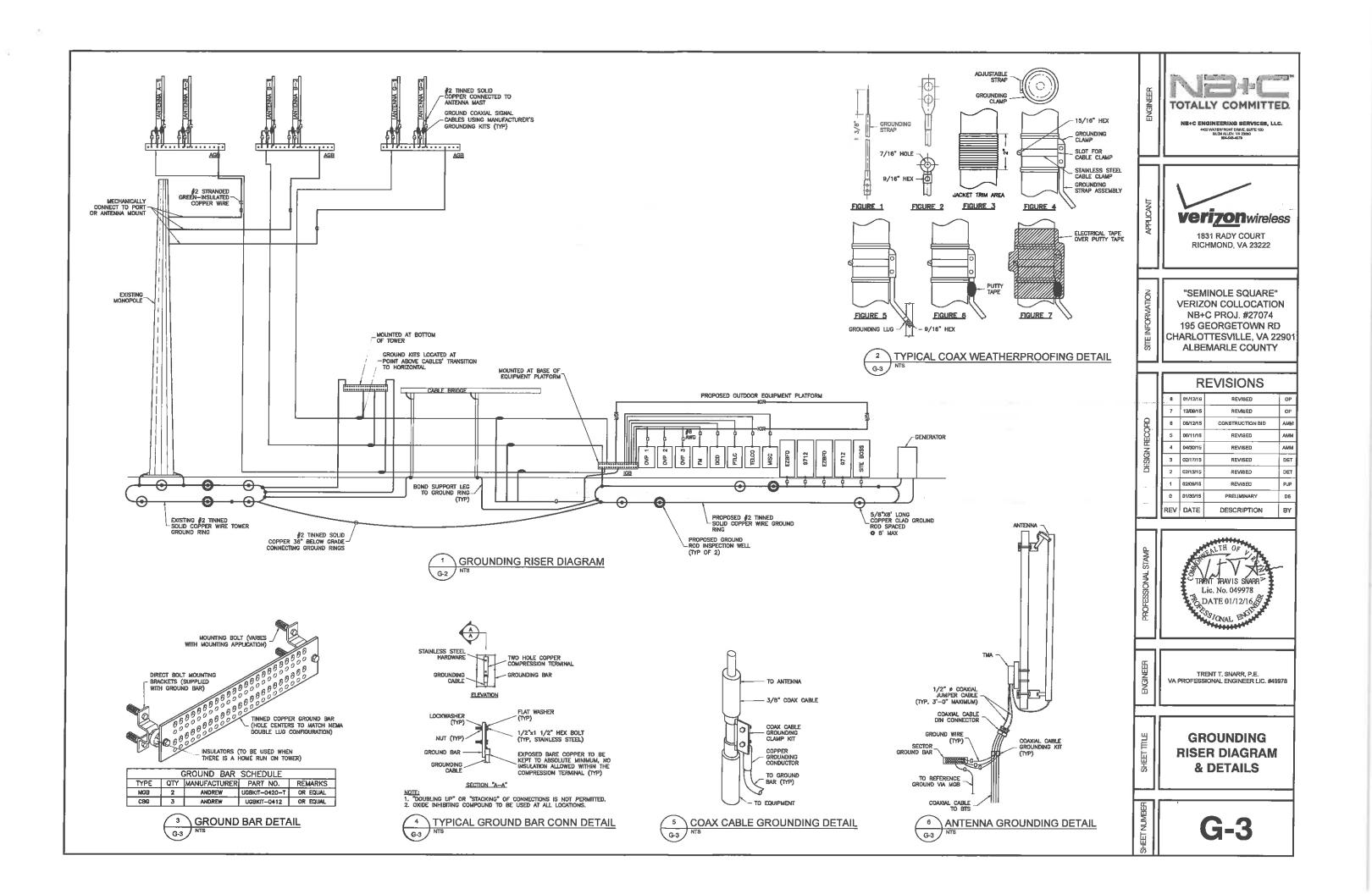
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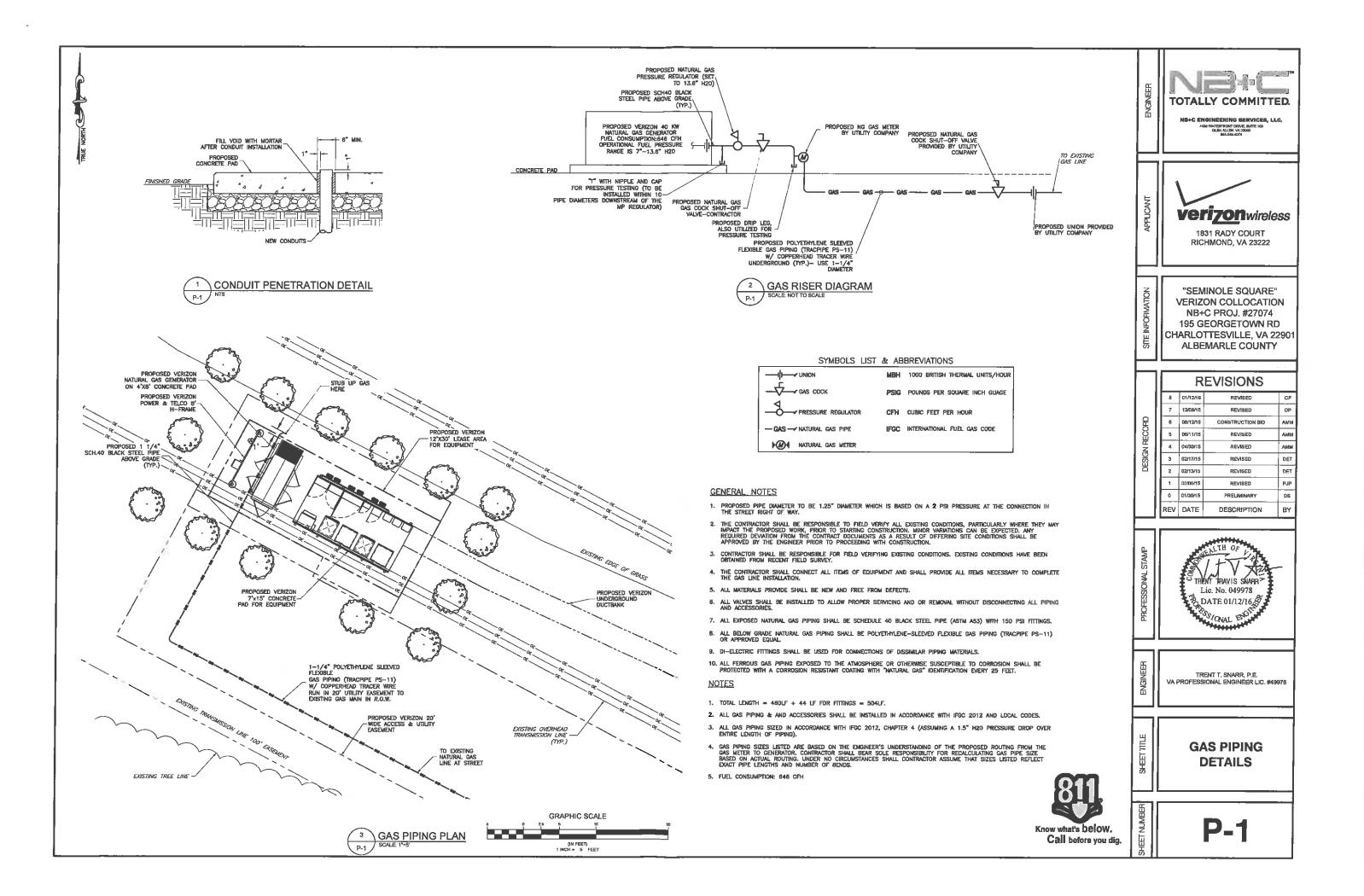
TRENT T. SNARR, P.E. VA PROFESSIONAL ENGINEER LIC. #49978

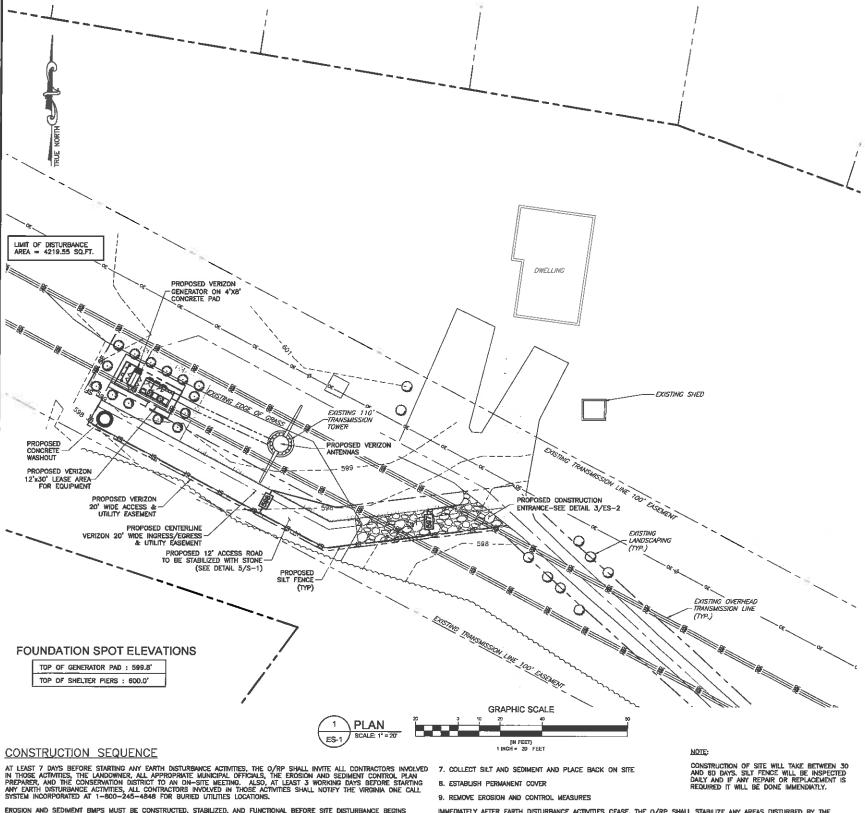
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GROUNDING PLAN

G-2







EROSION AND SEDIMENT BMPS MUST BE CONSTRUCTED, STABILIZED, AND FUNCTIONAL BEFORE SITE DISTURBANCE BEGINS WITHIN THE TRIBUTARY AREAS OF THOSE BMPS.

ALL EARTH DISTURBANCE ACTIVITIES SHALL PROCEED IN ACCORDANCE WITH THE FOLLOWING SEQUENCE. EACH STAGE SHALL BE COMPLETED BEFORE ANY FOLLOWING STAGE IS INITIATED. CLEARING AND GRUBBING SHALL BE LIMITED ONLY TO THOSE AREAS DESCRIBED IN EACH STAGE.

- 2, CONSTRUCT TEMPORARY SOIL EROSION AND SEDIMENT CONTROL MEASURES 3. ROUGH GRADE SITE
- 4. CONSTRUCT AND MAINTAIN TEMPORARY COVER TO STABILIZE DISTURBED AREAS
- 5. INSTALL UTILITIES 6. STABILIZE PROPOSED ACCESS ROAD W/ STONE SUB-BASE

IMMEDIATELY AFTER EARTH DISTURBANCE ACTIVITIES CEASE, THE O/RP SHALL STABILIZE ANY AREAS DISTURBED BY THE ACTIVITIES. DURING NON-CERMINATING PERIODS, MULCH MUST BE APPLIED AT THE SPECIFIED RATES. DISTURBED AREAS WHICH ARE NOT AT FINISHED GRADE AND WHICH WILL BE REDISTURBED WITHIN 1 YEAR MUST BE STABILIZED IN ACCORDANCE WITH THE TEMPORARY VEGETATIVE STABILIZATION SPECIFICATIONS. DISTURBED AREAS WHICH ARE AT FINISHED GRADE OR WHICH WILL NOT BE REDISTURBED WITHIN 1 YEAR MUST BE STABILIZED IN ACCORDANCE WITH THE PERMANENT VEGETATIVE

AN AREA SHALL BE CONSIDERED TO HAVE ACHIEVED FINAL STABILIZATION WHEN IT HAS A MINIMUM UNIFORM 70% PERENNIAL VEGETATIVE COVER OR OTHER PERMANENT NON-VEGETATIVE COVER WITH A DENSITY SUFFICIENT TO RESIST ACCELERATED SURFACE EROSION AND SUBSURFACE CHARACTERISTICS SUFFICIENT TO RESIST SLIDING AND OTHER MOVEMENTS.

AFTER FINAL SITE STABILIZATION HAS BEEN ACHIEVED, TEMPORARY EROSION AND SEDIMENT BMPS MUST BE REMOVED. AREAS DISTURBED DURING REMOVAL OF THE BMPS MUST BE STABILIZED IMMEDIATELY.

GENERAL EROSION AND SEDIMENT CONTROL NOTES:

- THE OWNER/DEVELOPER MUST NOTIFY THE ALBERMARLE COUNTY DEPARTMENT OF PUBLIC WORKS AT (434) 298-5818 AT LEAST 24 HOURS PRIOR TO THE START OF THE CONSTRUCTION IN ACCORDANCE WITH APPLICABLE COUNTY
- APPLICABLE COUNTY
 ORDINANCES AND POLICIES.

 THE OWNER/DEVELOPER GRAINS THE RIGHT-OF-ENTRY ON TO THIS PROPERTY TO THE DESIGNATED
 MERCER COUNTY PERSONAL FOR THE PURPOSE OF INSPECTING AND MONITORING FOR
 COMPLIANCE WITH TITLE 10.01, CHAPTER 5, ARTICLE 4 OF THE CODE OF VIRGINIA, EROSION AND
 SEDIMENT CONTROL LAW AND THE DESIGN AND CONSTRUCTION STANDARDS MANUAL SECTION 750.04.

 3. ALL EROSION CONTROL MEASURES SHOWN ON THE APPROVED PLAN MUST BE IN PLACE AND
 INSPECTED AND APPROVED BY THE DEPARTMENT PF PUBLIC WORKS PRIOR TO CLEARING, STRIPPING OF
 TOPSIOL DIG GRADING.

INSPECTED AND APPROVED BY THE DEPARTMENT PF PUBLIC WORKS PRIOR TO CLEARING, STRIPPING OF TOPSOLO OR GRADING.

4. A COPY OF THE APPROVED EROSION AND SEDIMENT CONTROL PLAN AND PERMIT SHALL BE KEPT ON THE SITE AT ALL TIMES.

5. THE DEVELOPER/DEVELOPERS'S REPRESENTATIVE IS RESPONSIBLE FOR THE INSTALLATION OF ANY ADDITIONAL EROSION CONTROL MEASURES NECESSARY TO PREVENT EROSION AND SEDIMENTATION AS DETERMINED BY ALBEMARIE COUNTY.

6. ALL DISTRIBUTED AREAS ARE TO DRAIN TO APPROVED SEDIMENT CONTROL MEASURES AT ALL TIMES DURING LAND DISTURBING ACTIVITIES AND DURING SITE DEVELOPMENT UNTIL COMPLETE AND ADEQUATE STABILIZATION IS ACHIEVED.

STABILIZATION IS ACHIEVED.

7. WATER MUST BE PUMPED INTO AN APPROVED FILTERING DEVICE DURING DEWATERING OPERATIONS.

8. ALL EROSION AND SEDIMENT CONTROL PRACTICES MUST BE CONSTRUCTED AND MAINTAINED ACCORDING TO THE MINIMUM STANDARDS AND SPECIFICATIONS OF THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK AND THE VIRGINIA REGULATIONS VR 628—02—00 EROSION AND SEDIMENT CONTROL REGULATION AND TO THE AUGUSTA COUNTY DESIGN AND CONSTRUCTION STANDARDS MANUAL, THE DEVELOPER/
DEVELOPER'S REPRESENTATIVE WILL BE RESPONSIBLE FOR THE INSTALLATION AND AMAINTEMANCE OF ALL EROSION AND SEDIMENT CONTROL PRACTICES AT ALL TIMES.

9. THE DEVELOPERS/ DEVELOPERS/ SERPRESENTATIVE SHALL INSPECT ALL EROSION AND SEDIMENT CONTROL MEASURES DAILY AND AFTER EACH SIGNIFICANT RAINFALL THE FOLLOWING ITEMS WILL BE CHECKED IN PARTICULAR:

PARTICULAR:

SILT FENCE BARRIERS WILL BE CHECKED RECULARLY FOR UNDERMINING OR DETERIORATION OF THE FABRIC. SEDIMENT SHALL BE REMOVED WHEN THE LEVEL OF SEDIMENT DEPOSITION REACHES HALF WAY TO THE TOP OF THE BARRIER.

D. SEEDED AREAS WILL BE CHECKED REGULARLY TO ENSURE THAT A GOOD STAND IS MAINTAINED AREAS SHOULD BE FERTILIZED AND RESEEDED AS NEEDED.

10. SEDIMENT TRAPPING MEASURES WILL BE INSTALLED AS A FIRST STEP IN GRADING AND WILL BE SEEDED AND MULCHED MIMEDIATELY FOLLOWING INSULATION.

11. PERMANENT SOIL STABILIZATION SHALL BE APPLIED TO DENUDED AREAS WITHIN SEVEN (7) DAYS AFTER FINAL GRADE IS REACHED ON ANY PORTION OF THE SITE.

TEMPORARY SOIL STABILIZATION SHALL BE APPLIED WITH IN SEVEN (7) DAYS TO DENUDED AREAS THAT MAY NOT BE AT FINAL GRADE BUT WILL REMAIN UNDISTURBED FOR LONGER THAN FOURTEEN (14) DAYS.

DAYS.

SEEDING AND SELECTION OF THE SEED MIXTURE SHALL BE IN ACCORDANCE WITH VIRGINIA EROSION AND SEDENERT CONTROL HANDBOOK STANDARD AND SPECIFICATION 3.32.

ROADS AND PARKING AREAS SHALL BE STABILIZED WITH SEVEN (7) DAYS AFTER FINAL GRADE IS SECULD.

REACHED.

REACHE

SEEDING / STABILIZATION SPECIFICATIONS

TOPSOIL STOCKPILE PROTECTION

APPLY GROUND LIMESTONE AT A RATE OF 90LBS. PER 1000 SQ.FT.

APPLY FERTILIZER (10-20-10) AT A RATE 11LBS. PER 1000 SQ.FT.

APPLY PERENNAL RYEGRASS SEED AT 1 LB. PER 1000 SQ.FT. AND ANNUAL RYEGRASS AT 1 LB. PER 1000 SQ.FT.

APPLY PORENNAL RYEGRASS SEED AT 1 LB. PER 1000 SQ.FT. AND ANNUAL RYEGRASS AT 1 LB. PER 1000 SQ.FT.

PROPERLY ENTRENCH A SILT FENCE AT THE BOTTOM OF THE STOCKPILE.

18. TEMPORARY STABILIZATION SPECIFICATIONS
A. APPLY GROUND LIMESTONE AT A RATE OF 184 LBS. PER 1000 SQ.FT.
B. APPLY FERTILIZER (10-20-10) AT A RATE 11 LBS. PER 1000 SQ.FT.
C. APPLY PERENNIAL RYEGRASS SEED AT 1 LB. PER 1000 SQ.FT. AND ANNUAL RYEGRASS AT 1LB. PER 1000 SQ.FT. AND ANNUAL RYEGRASS AT 1LB. PER 1000 SQ.FT.
D. MULCH STOCKPILE WITH STRAW OR HAY AT A RATE OF 138 LBS. PER 1000 SQ.FT.
E. APPLY A LIQUID MULCH BINDER OR TACK TO STRAW OR HAY MULCH.

DERMANENT STABILIZATION SPECIFICATIONS
APPLY TOPSOIL TO A DEPTH OF 5 INCHES (UNSETTLED)
APPLY GROUND LIMESTONE AT A RATE OF 184 LBS. PER 1000 SQ.FT. AND WORK FOUR INCHES INTO
SOIL.
APPLY FERTILIZER (10—20—10) AT A RATE 11 LBS. PER 1000 SQ.FT.
APPLY HARD FESCUE SEED AT 2.7 LBS. PER 1000 SQ.FT. AND CREEPING RED FESCUE SEED AT 0.7
LBS. PER 1000 SQ.FT. AND PERENNAL RYEGRASS SEED AT 0.25 LBS. PER 1000 SQ.FT.
MULCH STOCKPILE WITH STRAW OR HAY AT A RATE 0F 138 LBS. PER 1000 SQ.FT.
APPLY A LIQUID MULCH BINDER OR TACK TO STRAW OR HAY MULCH.

STORMWATER MANAGEMENT PLAN HAS NOT BEEN PROVIDED AS THE LIMIT OF DISTURBANCE IS UNDER



THREE WORKING DAYS NOTICE PRIOR TO

TOTALLY COMMITTED.

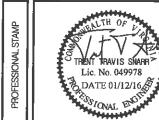
> N#+C ENGINEERING SERVICES, LLC. 4435 WATERFRONT DRIVE, SUITE 100 GLEN ALLEN, VA 2000 BOL-548-4078

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1831 RADY COURT RICHMOND, VA 23222

"SEMINOLE SQUARE" VERIZON COLLOCATION NB+C PROJ. #27074 195 GEORGETOWN RD CHARLOTTESVILLE, VA 22901 ALBEMARLE COUNTY

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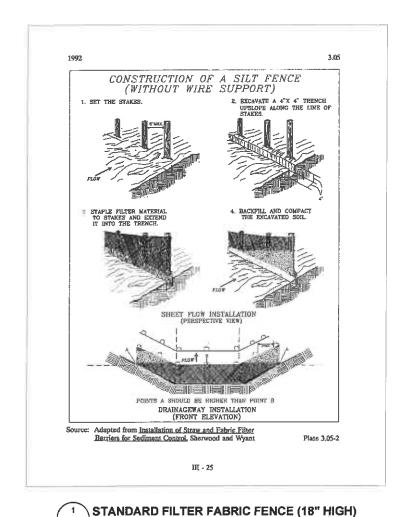


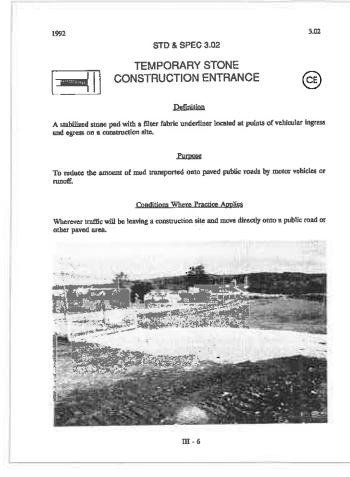
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EROSION & SEDIMENTATION CONTROL PLAN & DETAILS

EET NUMBER

ES-1

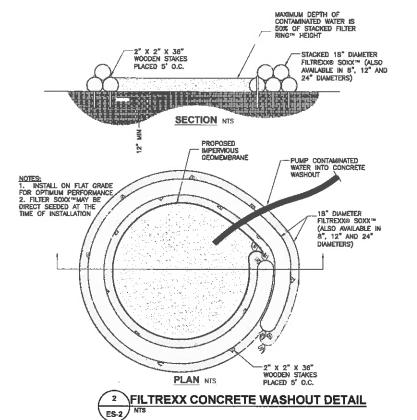


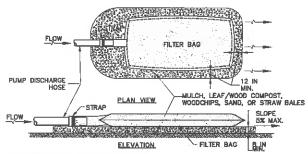


ROCK CONSTRUCTION ENTRANCE

ES-2

NTS





CONSTRUCTION SPECIFICATIONS

- 1. TIGHTLY SEAL SLEEVE AROUND THE PUMP DISCHARGE HOSE WITH A STRAP OR SIMILAR DEVICE.
- 2. PLACE FILTER BAG ON SUITABLE BASE (E.G., MULCH, LEAF/WOOD COMPOST, WOODCHIPS, SAND, OR STRAW BALES) LOCATED ON A LEVEL OR 5% MAXIMUM SLOPING SURFACE. DISCHARGE TO A STABILIZED AREA. EXTEND BASE A MINIMUM OF 12 INCHES FROM EDGES OF BAG.
- CONTROL PUMPING RATE TO PREVENT EXCESSIVE PRESSURE WITHIN THE FILTER BAG IN ACCORDANCE WITH THE MANUFACTURER RECOMMENDATIONS, AS THE BAG FILLS WITH SEDIMENT, REDUCE PUMPING RATE.
- 4. REMOVE AND PROPERLY DISPOSE OF FILTER BAG UPON COMPLETION OF PUMPING OPERATIONS OR AFTER BAG HAS REACHED CAPACITY, WHICHEVER OCCURS FIRST, SPREAD THE DEWATERED SEDIMENT FROM THE BAG IN AN APPROVED UPLAND AREA AND STABILIZE WITH SEED AND MULCH BY THE END OF THE WORK DAY, RESTORE THE SURFACE AREA BENEATH THE BAG TO ORIGINAL CONDITION UPON REMOVAL OF THE DEVICE.
- 5. USE NONWOVEN GEOTEXTILE WITH DOUBLE STITCHED SEAMS USING HIGH STRENGTH THREAD. SIZE SLEEVE TO ACCOMMODATE A MAXIMUM 4 INCH DIAMETER PUMP DISCHARGE HOSE. THE BAG MUST BE MANUFACTURED FROM A NONWOVEN GEOTEXTILE THAT MEETS OR EXCEEDS MINIMUM AVERAGE ROLL VALUES (MARV) FOR THE FOLLOWING:

 REPLACE FILTER BAG IF BAG CLOGS OR HAS RIPS, TEARS, OR PUNCTURES. DURING OPERATION KEEP CONNECTION BETWEEN PUMP HOSE AND FILTER BAG WATER TIGHT. REPLACE BEDDING IF IT BECOMES DISPLACED



GINEER



NB+C ENGINEERING SERVICES, LLC.

4458 WATERFRONT DRIVE, SUITE 100
GLEN ALLEN VA. 23060

504-548-670

PPLICANT



1831 RADY COURT RICHMOND, VA 23222

C

"SEMINOLE SQUARE"
VERIZON COLLOCATION
NB+C PROJ. #27074
195 GEORGETOWN RD
CHARLOTTESVILLE, VA 2290'
ALBEMARLE COUNTY

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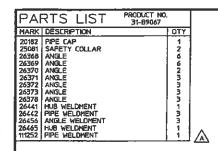
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EROSION & SEDIMENTATION CONTROL DETAILS

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ES-2



HARDWARE LIST PRODUCT NO. 31-89067 SYM OTY DESCRIPTION

ALL BOLTS I6 UNLESS NOTED.

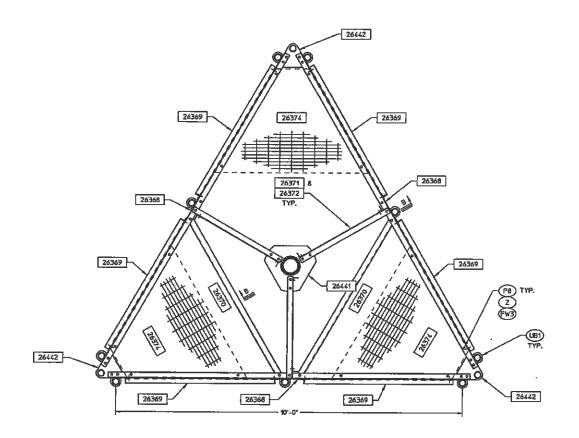
TOTAL GALV. PLATFORM WT. 700#

OPTIONAL GRATING KIT

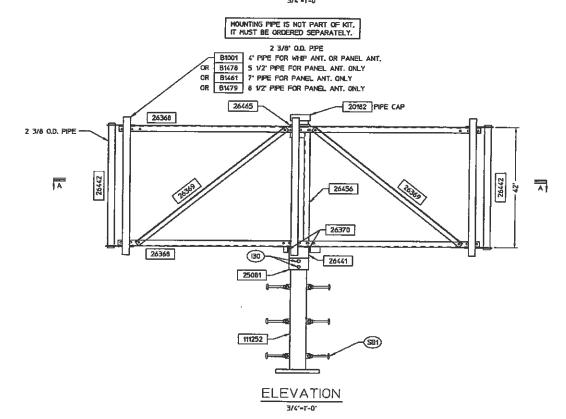
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26374	GRATING			٠.	3 .

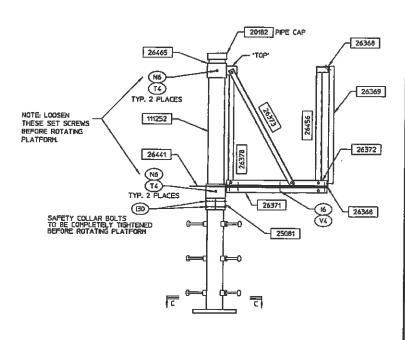
GRATING HARDWARE PRODUCT NO. SYM OTY DESCRIPTION P8 12 3/8# X 2 SOCKET HD BOLT ASSY FW3 12 3/8" FLATWASHER Z 12 "CB" GRATING CLIP W/ 7/16# HOLE

TOTAL GALV. GRATING WT. 130#

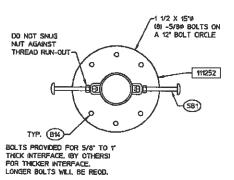








SECTION B-B 3/4"-1"-0"



SECTION C-C 1 1/2"=1"-0"

	ASVPOX	87/Q	ROTA	TABLE	E ANT	ENNA PLATFORM			
	3BAPR02	DATE	PROD	PRODUCT NO. 31-B9067 & 31-					
ĺ	HIGSZ WAS WIRBS	DESCRIPTION		3575 25TH STREET SE SALEN. OR 97302-0905 (503)363-9267 FAX (503) 363-4613					
	ľ		BY MF	CK	AH	D-101985			
			DATE	18JUL	.98	בספוטו -ם			
	4	REY	S.O.			SHEET: 1 OF 1			