

Commission of Architectural Review Submission Application

City of Richmond, Room 510 – City Hall 900 East Broad Street, Richmond, Virginia 23219 PHONE: (804) 646-6335 FAX: (804) 646-5789

12 COPIES OF SUPPORTING DOCUMENTATION ARE REQUIRED FOR PRO	DCESSING YOUR SUBMISSION
LOCATION OF WORK: 3012 MONUMENT AVE	DATE: 05/25/2016
OWNER'S NAME: WALLD M. DANIEL AND ADDRESS: 3904 LONGVIEW LANDING CT CITY, STATE AND ZIPCODE: PICHMOIND, VA 23223	TEL NO.:
ARCHITECT/CONTRACTOR'S NAME: TRENT SVARR NBTC AND ADDRESS: 4435 WATRAFRONT DR STE 100 CITY, STATE AND ZIPCODE: GUEN AUEN, VA 2300 00 Would you like to receive your staff report via email? Yes No	TEL. NO.: EMAIL: <u>\SYQYT@NDCI</u> \C · COV
REQUEST FOR CONCEPTUAL REVIEW	
I hereby request Conceptual Review under the provisions of Chapter 114, Article I Richmond City Code for the proposal outlined below in accordance with ma understand that conceptual review is advisory only.	X, Division 4, Section 114-930.6(d) of the aterials accompanying this application. I
APPLICATION FOR CERTIFICATE OF APPROPRIATENE	SS
I hereby make application for the issuance of a certificate under the provisions of C Historic Districts) of the Richmond City Code for the proposal outlined below in a accompanying this application.	Chapter 114, Article IX, Division 4 (Old and accordance with plans and specifications
DETAILED DESCRIPTION OF PROPOSED WORK STATE HOW THE DESIGN REVIEW GUIDELINES INFORM THE PROPOSED. (Include additional sheets of description if necessary, and 12 co the project. The 12 copies are not required if the project is being reviewed for an instruction sheet for requirements.)	E DESIGN OF THE WORK popies of artwork helpful in describing
PLEASE SEE ATTACHED.	
Signature of Owner or Authorized Agent: X Name of Owner or Authorized Agent (please print legibly): MEUSSA	Hames de noche com
(Space below for staff use only)	12.0310
RECEIVED Received by Commission Secretary APPLICATION I	NO
DATE MAY 2 5 2016 SCHEDULED F	OR

Note: CAR reviews all applications on a case-by-case basis.



Secretary, C.A.R. City Hall Room 510 900 East Broad Street Richmond, VA 23219

May 25, 2016

Re: C.A.R. Submission for 3012 Monument Avenue

To Whom It May Concern:

Please find attached an application for review for a project located at 3012 Monument Avenue. The project consists of installing a small cell antenna and associated equipment on the building.

The antenna will be located at near the front of the building at the southeast corner. A faux chimney made of RF friendly material and designed to blend into the building will be installed to camouflage the antenna.

The equipment will be installed in the basement of the building and will not be visible at all. The coax cables will run along the outside of the building and be painted to match. That side of the building currently has utility meters and cables of other kinds running along it. Great effort will be taken to hide the cables as much as possible.

Along with the application form, there are twelve sets of the following:

Complete construction drawings Structural letter Photo simulations

If there are any questions or you would like any more information, please don't hesitate to contact me.

4435 Waterfront Drive Suite 100 Glen Allen, VA 23060 www.networkbuilding.com



Best Regards,

Melissa Harreld Zoning Manager

NB+C, LLC

mharreld@nbcllc.com

(m) 804.892.0310



August 7, 2015

Alan Gummo Verizon Wireless 1831 Rady Court Richmond, VA 23222

Re: Structural Evaluation Letter for Verizon Network Node Project Site Address: 3012 Monument Avenue, Richmond, VA 23221 Verizon Site Name: Richmond Fan NO24 "Lord Fairfax"

Dear Mr. Gummo:

Pursuant to your request, Network Building + Consulting Engineering Services ("NB+C ES") has evaluated the structural impact of installing one (1) proposed Commscope-Andrew NH180QS-DG-FOM antenna and two (2) 7/8"ø coax on the building's brick parapet on an 35' AGL tall apartment building at a centerline elevation of 37" AGL. Verizon will also installing one (1) proposed RRH4x30-B25, one (1) proposed RRH 2x60, one (1) DBC0051F2V51 Diplexer, and one (1) proposed Cube-SC1042NNN3 equipment (with battery backup) cabinet on the building's basement brick wall.

NB+C ES has reviewed the site walk notes and photos by NB+C ES dated June 2, 2015, Lease Exhibit Drawings by NB+C ES dated June 17, 2015, and RF Design Sheet provided by Verizon Wireless dated August 3, 2015 for this site. The proposed antenna will be installed inside a RF friendly chimney on a 2-3/8"ø SCH 80 pipe with (2) Site Pro 1 wall mounts (P/N WWM01) connected to the brick parapet using four (4) 1/2"ø threaded rods with a 8.5"x8.5"x3/8" thick backing plate. The proposed RRHs and equipment cabinet will be attached using unistrut connected to the brick basement wall using at least four (4) 1/2"ø bolts with HILTI HIT-IC Inserts into Hilti HIT-SC screen with a drilled hole diameter of 7/8". Use an embedment depth of 3-3/4" for the screen and a 3-1/8" embedment for the steel anchor in HLTI HIT-HY 70 epoxy. Proposed RF friendly chimney to be designed by others.

Based on an evaluation of the existing conditions and per the provisions of 2012 International Building Code and Structural Standards for Steel Antenna Towers and Antenna Supporting Structures ANSI/TIA-222-G for applied gravity and lateral loads, NB+C ES has determined that the existing structure and proposed antenna and equipment mounts are <u>adequate</u> and can support the proposed installation without any structural modification to the Structure. Please see the construction drawings prepared by NB+C ES for additional details. Any deterioration or damage to the existing mounts or localized damage or distress to the structure should be documented and reported to the engineer and repaired by the contractor prior to the installation of the proposed equipment. No structural qualification is made or implied by this report for existing structural members not supporting the proposed installation. Should you have any question or require additional information, please feel free to contact us.

4435 Waterfront Drive Suite 100 Glen Allen, VA 23060 www.networkbuilding.com



Respectfully Prepared by: Lesley Read

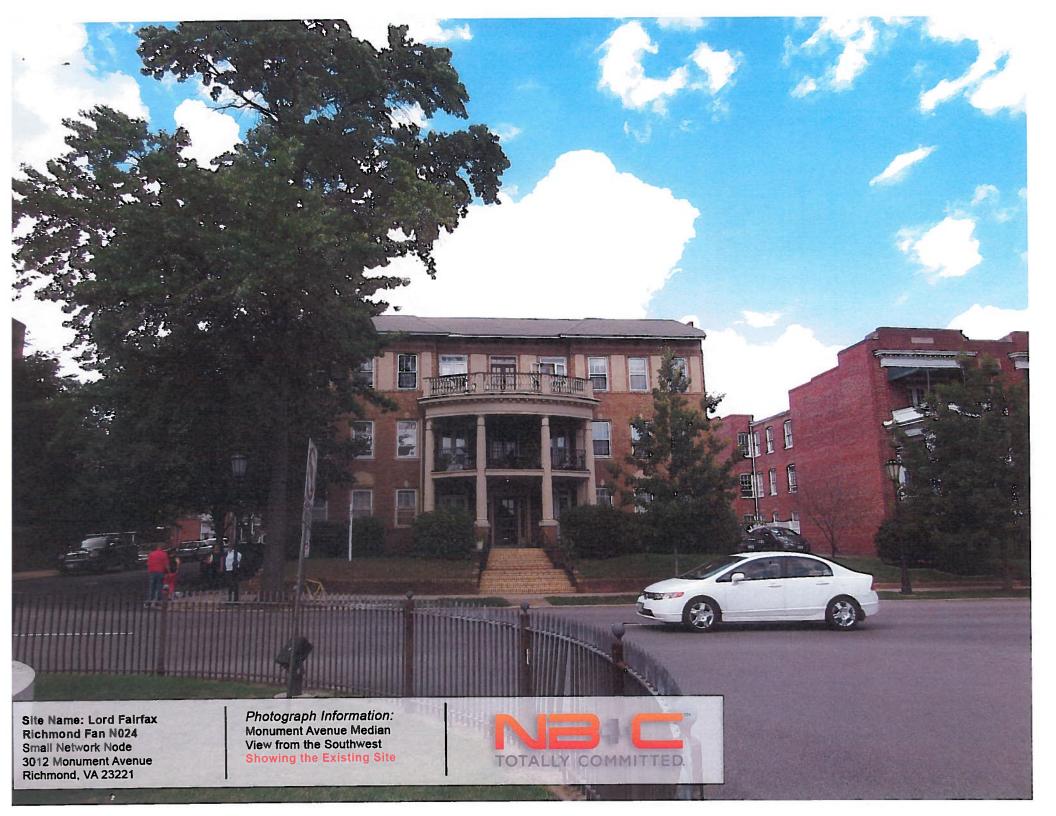
NB+C ENGINEERING SERVICES, LLC

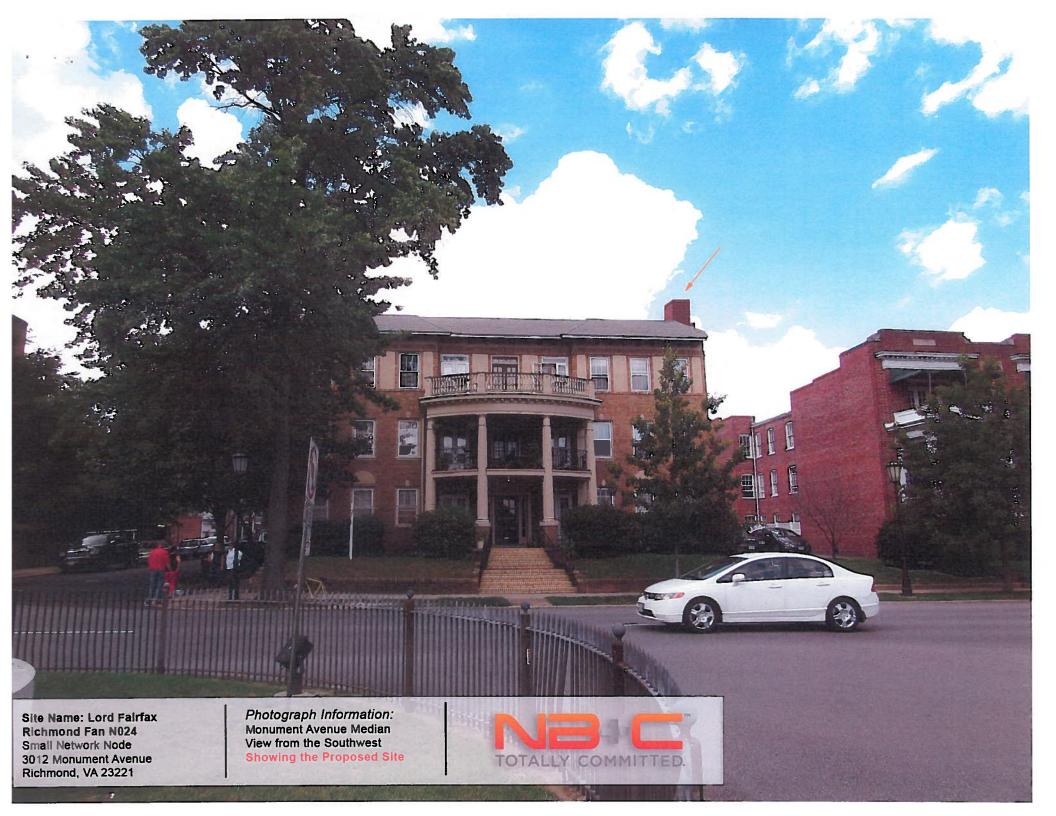
Trent Snarr, P.E. Engineering Manager - South VA PE # 49978











REFER TO THE EES/NIC FOR PROPER MANAGEMENT OF THE ACMS AND LBP. IF DISTURBANCE IN NEEDED.

SITE INFORMATION



POLYGON NAME: RICHMOND FAN N024 SITE NAME: LORD FAIRFAX

3012 MONUMENT AVENUE RICHMOND, VA 23221 CITY OF RICHMOND

VICINITY MAP



Call before you dig.

DRAWING INDEX TITLE SHEET T-1 Z-1 SITE PLAN C-1 ROOFTOP PLAN C-2 ELEVATION S-1 STRUCTURAL DETAILS & NOTES A-1 ANTENNA PLAN, SCHEDULE & DETAILS A-2 ANTENNA WIRING DIAGRAM E-1 **ELECTRICAL PLAN & DETAILS** E-2 ELECTRICAL PANEL SCHEDULE, DIAGRAM & NOTES

DO NOT SCALE DRAWINGS

GROUNDING PLAN, DETAILS & NOTES

GROUNDING RISER DIAGRAM & DETAILS

G-1

G-2

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 DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR MATERIAL ORDERS OR BE RESPONSIBLE FOR THE SAME. CONTRACTOR SHALL USE BEST MANAGEMENT PRACTICE TO PREVENT STORM WATER POLLUTION DURING CONSTRUCTION

SITE DEVELOPMENT TEAM

SITE ACQUISITION:	ZELIC JONES, (804) 901-5580
CONSTRUCTION MANAGER:	MIKE WHORTON, (804) 873-8114
ZONING MANAGER	MELISSA HARRELD, (804) 892-0310
RF ENGINEER:	JEFF DUBIEL, (804) 218-5477
PROJECT MANAGER:	SHANA SUTTON, (443) 838-0300

TOTALLY COMMITTED. NB+C ENGINEERING SERVICES, LLC.

Verionwireless 1831 RADY COURT

RICHMOND, VA 23222

RICHMOND FAN N024 "LORD FAIRFAX" NB+C PROJ. # 27758 3012 MONUMENT AVENUE RICHMOND, VA 23221 CITY OF RICHMOND

		R	EVISIONS	
DESIGN RECORD	2 1 0	10/16/15 08/13/15 08/03/15	REVISED FINAL PRELIMINARY DESCRIPTION	PJ TW TW
	KEV	DATE	DESCRIPTION	B

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

TITLE SHEET

STREET ADDRESS: 3012 MONUMENT AVENUE RICHMOND, VA 23221 GOOGLE EARTH LONGITUDE (NAD 83): W 77" 28' 28.46" GROUND ELEVATION: 212.0' (AMSL) JURISDICTION: CITY OF RICHMOND PARCEL ID W0001369017 ZONING R-48 - RESIDENTIAL (MULTI-FAMILY) ACREAGE PARCEL OWNER: 3904 LONGVIEW LANDING COURT RICHMOND, VA 23223 STRUCTURE TYPE: ROOFTOP STRUCTURE HEIGHT 35.0' (AGL) ANTENNA RAD CENTER 37.0' (AGL) AUGUST 2015 STRUCTURAL ANALYSIS: LEASE AREA 21 SQ. FT. USE GROUP: CONSTRUCTION GROUP:

CHANGE OF USE

OCCUPANCY LOAD

FLOODPLAN:

STEALTH JOB#

APPLICANT:

PROJECT MANAGEMENT FIRM.

VERIZON WIRELESS

1831 RADY COURT RICHMOND, VA 23222

NETWORK BUILDING + CONSULTING, LLC. 4435 WATERFRONT DRIVE

SUITE 100 GLEN ALLEN, VA 23060

ENGINEERING FIRM NB+C ENGINEERING SERVICES, LLC. 4435 WATERFRONT DRIVE

PROJECT TEAM

GLEN ALLEN, VA 23060 (804) 548-4079 tsnarr@nbcilc.com

CODE COMPLIANCE

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
- 2011 NATIONAL ELECTRICAL 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 81

Buz and Ned's Real Barbecus

- IEEE C2 NATIONAL ELECTRIC SAFETY CODE LATEST EDITION
- TELECORDIA GR-1275
- ANSI/T 311

DIRECTIONS VZ15-01200W-17R0

DEPART RADY CT TOWARD RADY ST, TURN LEFT ONTO RADY ST, TURN LEFT ONTO MAGNOLIA ST, TURN RIGHT ONTO MECHANICSVILLE TURNPIKE/US-360 W. TAKE RAMP RIGHT ONTO 1-84 W. AT EXIT 78, TAKE RAMP RIGHT TOWARD BOULEVARD. TURN LEFT ONTO HERMITAGE RD. TURN RIGHT ONTO ROBIN HOOD RD. TURN LEFT ONTO VA-161 / N BOULEVARD, TURN RIGHT ONTO MONUMENT AVENUE, 3012 MONUMENT AVE IS ON THE RIGHT.

ALL WORK AND MATERIALS SHALL BE PERFORMED AND INSTALLED IN ACCORDANCE WITH THE CURRENT EDITIONS OF

Franklin ton

SITE

CONSTRUCTION MANAGER	MIKE WHORTON, (804) 873-8114
ZONING MANAGER:	MELISSA HARRELD, (804) 892-0310
RF ENGINEER:	JEFF DUBIEL, (804) 218-5477



GENERAL NOTES

- THIS PLAN IS SUBJECT 10 ALL EASEMENTS AND RESTRICTIONS OF RECORD.
- 2. NO SIGNIFICANT NOISE, SMOKE, DUST, OR ODOR WILL RESULT FROM THIS FACILITY.
- 3. THE FACILITY IS UNMANNED AND NOT INTENDED FOR HUMAN HABITATION. THERE IS NO HANDICAP ACCESS REQUIRED.
- THE FACILITY IS UNMANNED AND DOES NOT REQUIRE POTABLE WATER OR SANITARY SERVICE.

PARCEL INFORMATION. OWNER: DANIEL M WALID

PARCEL ID: W0001369017

ZONING CLASS: R-48 - RESIDENTIAL (MULTI-FAMILY) ACREAGE 0.138

ELEVATION 2120' AMSL



NB+C ENGINEERING SERVICES, LLC.
44 35 WATERFRONT DRIVE. BUITE 100
GLEN ALLEN. VA 27000

veri onwireless

1831 RADY COURT RICHMOND, VA 23222

RICHMOND FAN N024 "LORD FAIRFAX" NB+C PROJ. # 27758 3012 MONUMENT AVENUE RICHMOND, VA 23221 CITY OF RICHMOND

REVISIONS 10/16/15 08/13/15 DESCRIPTION REV DATE

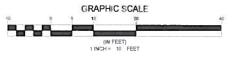
TRENT T. SNARR, P.E. VA PROFESSIONAL ENGINEER LIC. #49978

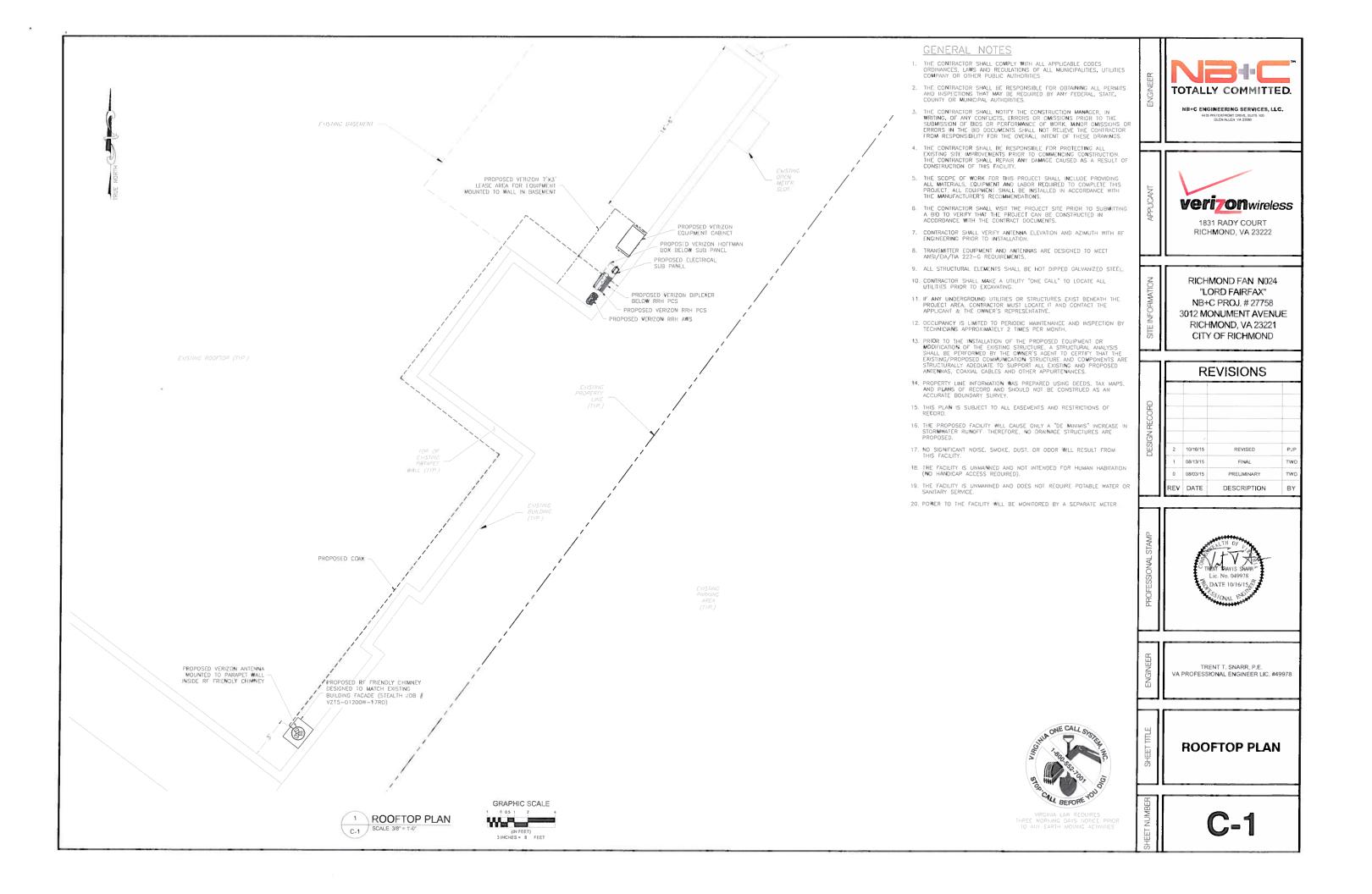
SITE PLAN

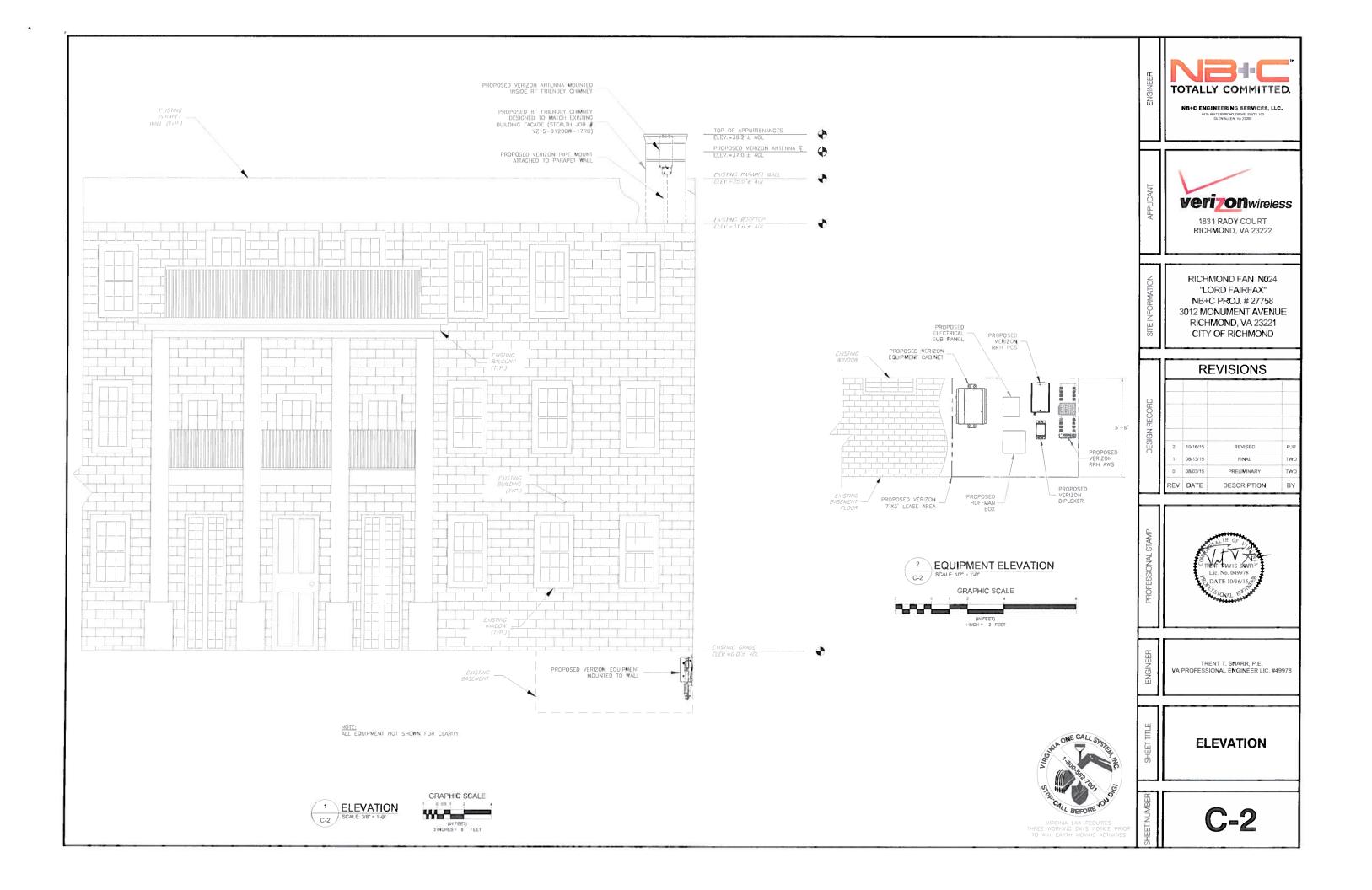
Z-1

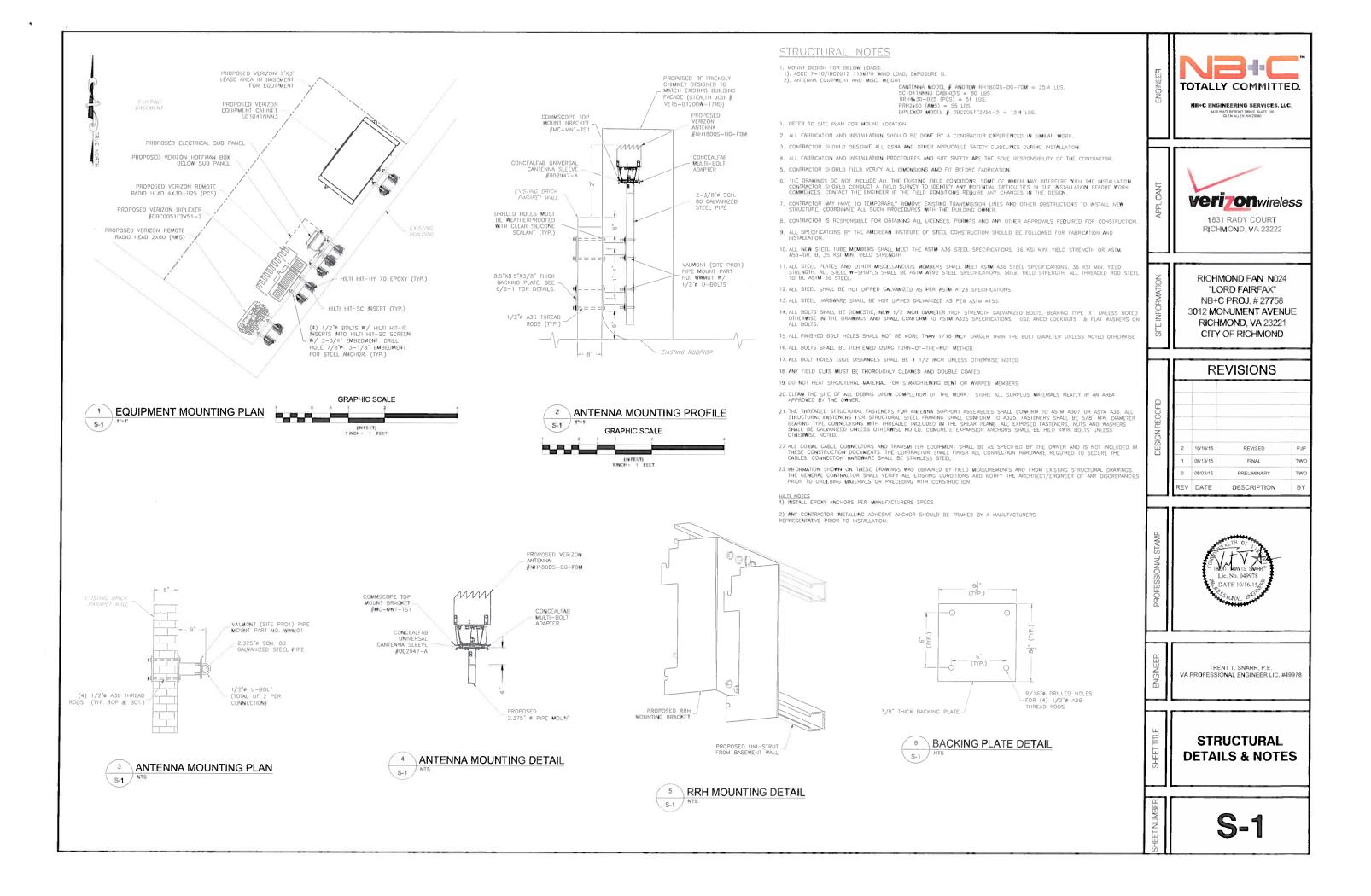
Know what's below. Call before you dig.





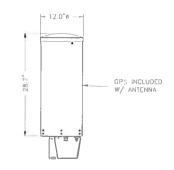




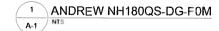


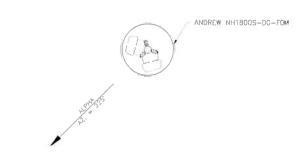


- 1. ANTENNA RAD CENTER IS IN REFERENCE TO ELEVATION 0'-0" (EXISTING GRADE).
- 2. CONTRACTOR IS TO VERIFY ALL ANTENNA MODELS AZIMUTHS WITH THE VZW CONSTRUCTION MANAGER PRIOR TO CONSTRUCTION.





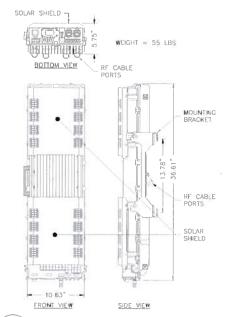




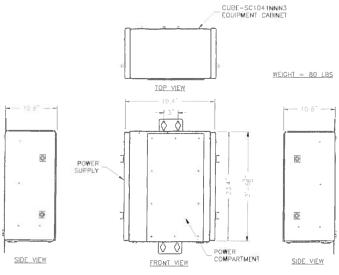
² PROPOSED ANTENNA ORIENTATION PLAN A-1

REAR VIEW





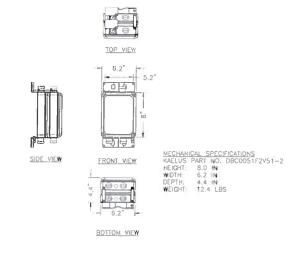
3 AWS RRH 2x60 (REMOTE RADIO HEAD) A-1

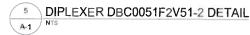


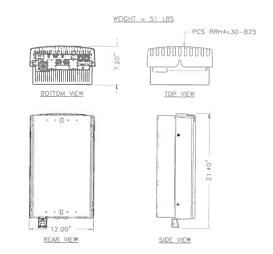




BOTTOM VIEW







6 PCS RRH4x30-B25 (REMOTE RADIO HEAD) A-1

	PROPOSED ANTENNA INFORMATION								
SECTOR	STATUS	ANTENNA MANUFACTURER	ANTENNA MODEL	RAD CENTER	AZIMUTH	DOWN TILT	RRH QUANTITY & MODEL	CABLE SIZE & QUANTITY	
ALPHA	PROPOSED	ANDREW	NH180QS-DG-FOM	37.0	225"	N/A	(1) PCS RRH4*30-B25 (1) AWS RRH2*60	(2) 7/8" COAX 100'± LONG	
BETA	72	÷	3,	=.	770	N/A	N/A	131	
GAMMA	Œ	-	_	-	-	N/A	N/A	17.	
GP5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	

NOTES:
1. CONTRACTOR TO VERIFY PROPOSED ANTENNA INFORMATION IS THE MOST CURRENT DATA AT TIME OF CONSTRUCTION.
2. CONTRACTOR TO CONFIRM CABLE LENGTHS PRIOR TO CONSTRUCTION.
3. CONTRACTOR IS RESPONSIBLE TO BUILD FROM THE LATEST RF SHEET.
4. CONTRACTOR SHALL PROVIDE SIGNAGE AS SHOWN IN THE EME STUDY, WHICH WILL BE PROVIDED BY THE CONSTRUCTION MANAGER IN THE BID PACKAGE.



verizonwireless 1831 RADY COURT

RICHMOND, VA 23222

RICHMOND FAN N024 "LORD FAIRFAX" NB+C PROJ. # 27758 3012 MONUMENT AVENUE RICHMOND, VA 23221 CITY OF RICHMOND

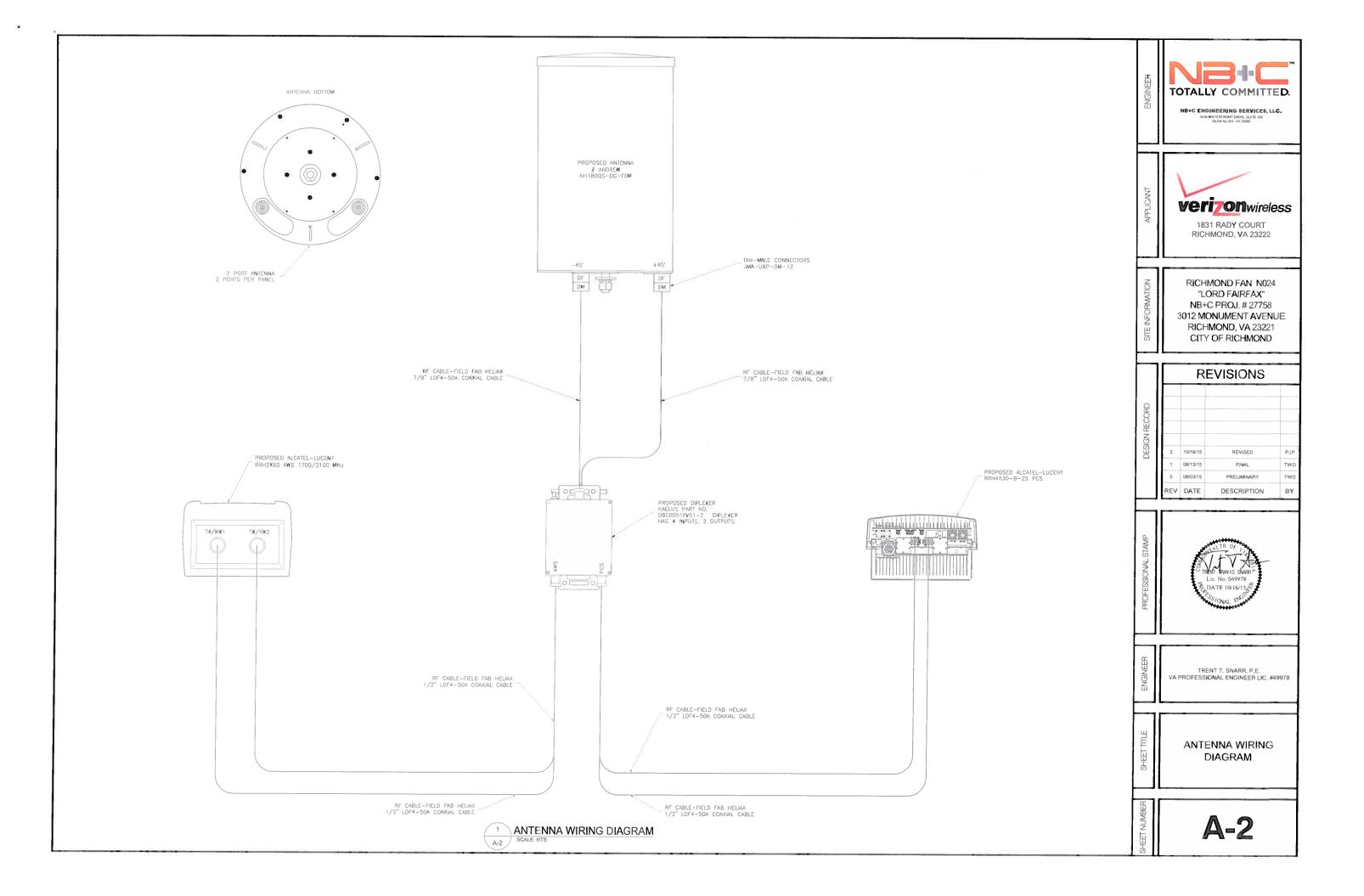
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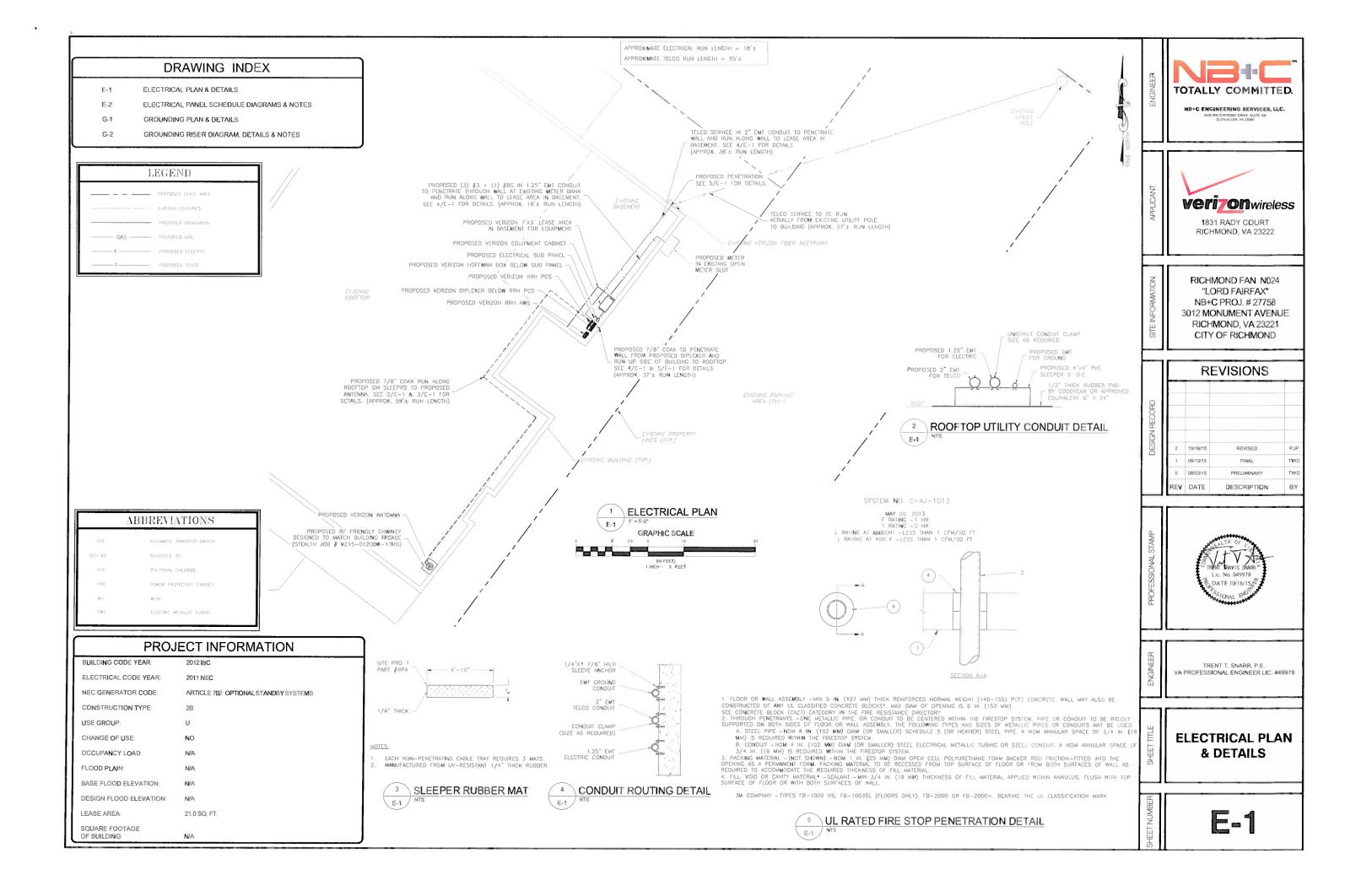
PHOFESSIONAL STAMP	TRUST TRAVIS SURPRED Lic. No. 049978 DATE 10'16'15'
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-000	NGINEER	TRENT T. SNARR, P.E. VA PROFESSIONAL ENGINEER LIC. #4997
1	EN .	

ANTENNA PLAN, **SCHEDULE** & DETAILS

A-1





ELECTRICAL NOTES

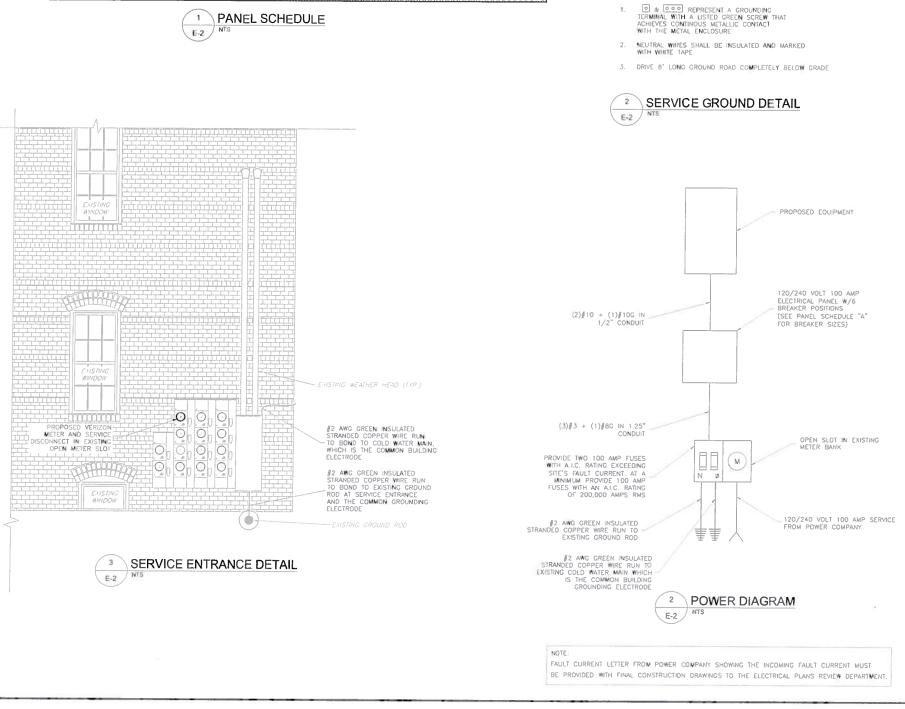
- SUBMITTAL OF BID INDICATES THAT THE CONTRACTOR IS COGNIZANT OF ALL JOB SITE CONDITIONS AND WORK TO BE PERFORMED UNDER THIS CONTRACT
- CONTRACTOR SHALL PERFORM ALL VERIFICATIONS, OBSERVATION TESTS, AND EXAMINATION WORK PRIOR TO ORDERING OF ANY EQUIPMENT AND THE ACTUAL CONSTRUCTION, CONTRACTOR SHALL 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.
- THESE PLANS ARE DIAGRAMMATIC ONLY, FOLLOW AS CLOSELY AS POSSIBLE. MAKE REVISIONS AS REQUIRED TO MEET PROJECT INTENT.
- 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
- 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 LABLE. "J" WHERE SUBJECT TO SUCH APPROVAL, MATERIALS SHALL MEET WITH APPROVAL OF ALL GOVERNING BODIES HAVING JURISDICTION OVER THE CONSTRUCTION, MATERIALS SHALL BE MANUFACTURED IN ACCORDANCE WITH ALL CURRENT APPLICABLE STRANDROS 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 FOUN TO BE FAULTY DURING THAT PERIOD SHALL BE CORRECTED AT ONCE, UPON WRITTEN NOTIFICATION, AT THE EXPENSE OF THE CONTRACTOR.
- 10. PROPERLY SEAL ALL PENETRATIONS. PROVIDE UL LISTED FIRE—STOPS WHERE PENETRATIONS ARE MADE THROUGH FIRE—RATED ASSEMBLIES. WHATER—TIGHT USING SILCONE SEALANT.
- 11. DELIVER ALL BROCHURES, OPERATING MANUALS, CATALOGS AND SHOP DRAWINGS TO THE PROJECT MANAGER AT JOB COMPLETION. PROVIDE MANTENANCE 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 THAW, RATED IN ACCORDANCE WITH NEC 110-14(C).
- 13. 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 UTILITY COMPANY STANDARDY.
- 15 CONDUIT-
- A RIGID CONDUIT SHALL BE U.L. LABEL GALVANZED 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, LMT SHALL BE USED ONLY FOR INTERIOR
- 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 10 WALLS, FLOOR, CEILING, OR BEAMS, VERIFY EXACT ROTTING OF ALL EXPOSED CONDUIT WITH THE PROJECT MANAGER PRIOR 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.
- 16. 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.
- 17. 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.
- 18. 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 TEMS INDICATED ON THE DRAWINGS TO THE OWNER IN GOOD CONDITION. OBTAIN SIGNED RECEIPT UPON DELIVERY.
- 19. 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.
- 20. VERIFY ALL EXISTING CIRCUITRY PRIOR TO REMOVAL AND NEW WORK, MAINTAIN POWER TO ALL OTHER AREAS & CIRCUITS NOT SCHEDULED FOR REMOVAL.
- 21. RED LINED AS-BUILT PLANS SHALL BE PROVIDED TO THE CONSTRUCTION
- 22. INDOOR CONDUCTORS SHALL BE INSTALLED IN EMT UNLESS NOTED OTHERWISE.

 OUTDOOR CONDUCTORS SHALL BE INSTALLED IN RIGID GALVANIZED STEEL

 CONDUIT UNLESS NOTED OTHERWISE.
- 23. SEAL AROUND PENETRATIONS RESULTING FROM CONDUIT ROUTING WITH FIRE— STOPPING FOAM SEALANT HAVING A UL-LISTED RATING OF 2 HOURS. HAMMER-DRILLING IS NOT PERMITTED. CORE-DRILLING TO BE COORDINATED WITH BUILDING OWNER'S REPRESENTATIVE.

			P	ANEL	S	Ch	IE.	DU	LE "A	\''			
VOLTS: 120/240 PHASE: 1	WIRE: 3 RMS 65 AMP: 100 MAIN CE		RAL BAR JND BAR				CK:			TYPE: 1 TING SURFACE	MER TOD		
WATTS B	CIRCUIT DESCR	PTION COND	UCTOR	POLES	B R K	C K T	C K T	B R K	POLES	CONDUCTOR	CIRCUIT DESCRIPTION	W/	115 B
2000	CHARLES CUBE #SC	1041NNN3 (2)#10-	(1)#10G	1	30	1	2		1	=:	SPARE	-	*****
360	EXTERIOR GFCI O	UTLET (2)#12	(1)#120	1	20	3	4		1	4	SPARE	*****	1124
- 💥	SPÄRC	- 6		- 1	-	5	6		1	= 1	SPARE	=	****
2000 360	- TOTAL										TOTAL -	0	0
LOAD DESCRIPTION	CONNECTED LOAD	DEMAND FACTOR	DE	MAND L	DAD	Т				TOTAL CO	ONNECTED LOAD BY PHASE		
LIGHTS	0	1,00	1	0		7	PHASE A WATTS = 2000						
EQUIPMENT	2000	1,00		2000		十	PHASE B WATTS = 360						
RECEPTACLES	360	1,00		360		360 TOTAL CON		CONNECTED LOAD KVA = 2.36					
MISC	0	1:00	0			TOTAL PANEL LOADING KVA = 2.36		ANEL LOADING KVA = 2.36					
HVAC	0	1.00		0		T				TOTAL PA	NEL CAPACITY KVA = 24.0		
TOTAL	2360	************	X	2360		-	∞	\times	*****	********	***************************************	*****	******





INSULATED NEUTRAL BLOCK

NEW SERVICE

DISCONNECT SWITCH

#2 AWG GREEN INSULATED STRANDED COPPER RUN FROM NEW GROUND BAR

TO PROPOSED GROUND RODS (TYP. OF 2)

5/8" x 8' COPPER-CLAD STEEL GROUND RODS

6" APART BY EXISTING METER BANK

0000

BONDING BUSHING WITH

#1-0 IN RGS

LISTED GREEN SET SCREW

NEUTRAL BLOCK BONDED TO ENCLOSURE WITH LISTED -GREEN SCREW CONNECTION

GROUNDED SUPPLY NEUTRAL

NOTES

TOTALLY COMMITTED.

NB+C ENGINEERING SERVICES, LLC.

Veri7onwireless

1831 RADY COURT

RICHMOND, VA 23222

RICHMOND FAN N024

"LORD FAIRFAX"

NB+C PROJ, # 27758 3012 MONUMENT AVENUE

RICHMOND, VA 23221 CITY OF RICHMOND

REVISIONS

REVISED

DESCRIPTION

TRENT T SNARR DE VA PROFESSIONAL ENGINEER LIC. #49978

ELECTRICAL

PANEL SCHEDULE.

DIAGRAM & NOTES

E-2

BY

10/16/15

08/13/15

EV DATE

GROUNDING NOTES:

- 1. GROUNDING SHALL COMPLY WITH ARTICLE 250 OF THE NATIONAL ELECTRICAL CODE.
- 2. ALL GROUNDING DEVICES SHALL BE U.L. APPROVED OR LISTED FOR THEIR INTENDED USE.
- 3. ALL WIRES SHALL BE AWG THHN/THWN COPPER UNLESS NOTED OTHERWISE.
- 4 GROUNDING CONNECTIONS TO GROUND RODS, GROUND RING WIRE, TOWER BASE AND FENCE, POSTS STALL BE EXCHIERMIC ("CADWILLDS") UNLESS NOTED OTHERWISE, CLEAN SURFACES TO SHINY METAL, WHERE GROUND WIRES ARE CADWELDED TO GALVANIZED SURFACES, SPRAY CADWELD WITH GALVANIZING PAINT.
- 5. 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.
- 6, 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 ABOYE GRADE GROUNDING AND #2 TINNED SOLID COPPER WIRE FOR BELOW GRADE GROUNDING UNLESS OTHERWISE NOTED.
- 9. REFER TO GROUNDING PLAN FOR GROUND BAR LOCATIONS, GROUNDING CONNECTIONS SHALL BE EXCTHERMIC TYPE ("CADWELDS") TO ANTENNA MOUNTS AND GROUND RING, REMAINING GROUNDING CONNECTIONS SHALL BE COMPRESSION FITTINGS, CONNECTIONS TO GROUND BARS SHALL BE MADE WITH TWO-HOLE LUGS.
- 10. THE GROUND ELECTRODE SYSTEM SHALL CONSIST OF DRIVEN CROUND RODS POSITION ACCORDING TO GROUNDING PLIN, THE GROUND RODS SHALL BE 5/8/x10'-0' COPPER CLAD STEEL INTERCONNECTED WITH #2 TINNED SOULD COPPER WHER BURIED 36" BELOW GRADE, BURY GROUND RODS A MAXIMUM OF 15' APART, AND A MINIMUM OF 8' APART.
- 11. IF ROCK IS ENCOUNTERED GROUND RODS SHALL BE PLACED AT AN OBLIQUE ANGLE NOT TO EXCEED 45.
- 12. EXOTHERMIC WELDS SHALL BE MADE IN ACCORDANCE WITH ERICO PRODUCTS BULLETIN A-AT.
- 1.3. 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 LUCS ON GROUND WIRES, APPLY THOMAS & BETTS KOPR-SHELD (TM OF JET LUBE NGC.). PRIOR TO BOLTING GROUND WIRE LUCS TO GROUND BARS, APPLY KOPR-SHELD OR EQUAL.
- 16. IF A SINGLE GROUND ROD CAN BE PROVEN TO HAVE A RESISTANCE TO THE EARTH OF 25 OHMS OR LESS, A SECOND GROUND ROD IS NOT REQUIRED. A 3RD PARTY MUST CONDUCT THE TEST AND PROVIDE. RESULTS TO VERIZON CONSTRUCTION MANAGER.
- 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 MATERIAL.
- 18 PREPARE ALL BONDING SURFACES FOR GROUNDING CONNECTIONS BY REMOVING ALL PAINT AND CORROSION DOWN TO SHINY METAL. FOLLOWING CONNECTION, APPLY APPROPRIATE ANTI-OXIDIZATION PAINT.
- 19. ANY SITE WHERE THE EQUIPMENT (BTS, CABLE BRIDGE, PPC, GENERATOR, ETC.) IS LOCATED WITHIN 6 FEET OF METAL FENCING, THE GROUND RING SHALL BE BONDED TO THE NEAREST FENCE POST USING (3) RUNS OF #2 BARE TINNED COPPER WIRE.

GROUNDING LEGEND

COMPRESSION FITTING CONNECTION

5/8"X10' COPPER-CLAD STEEL GROUND ROD WITH INSPECTION WELL

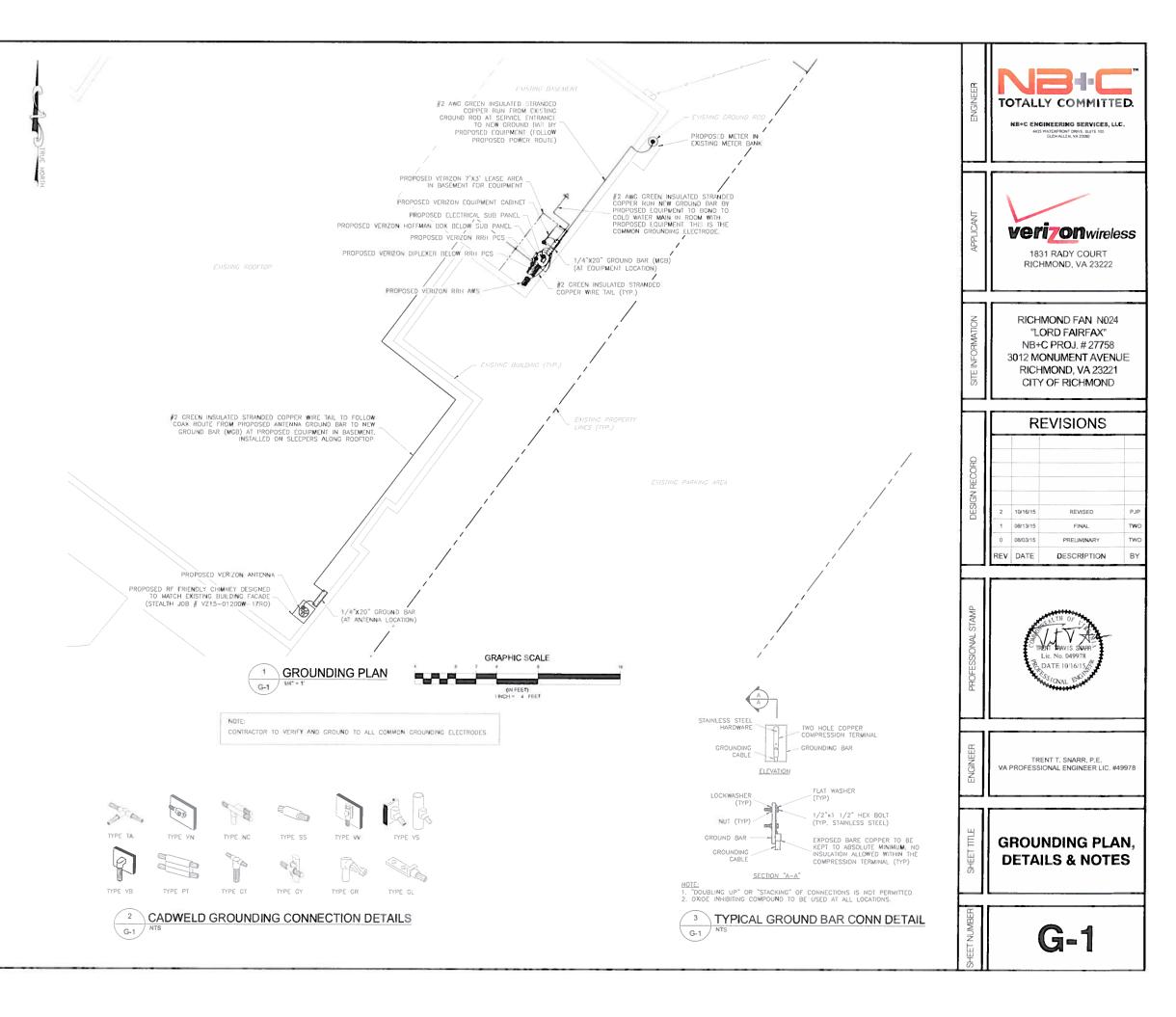
EXOTHERMIC WELD CONNECTION

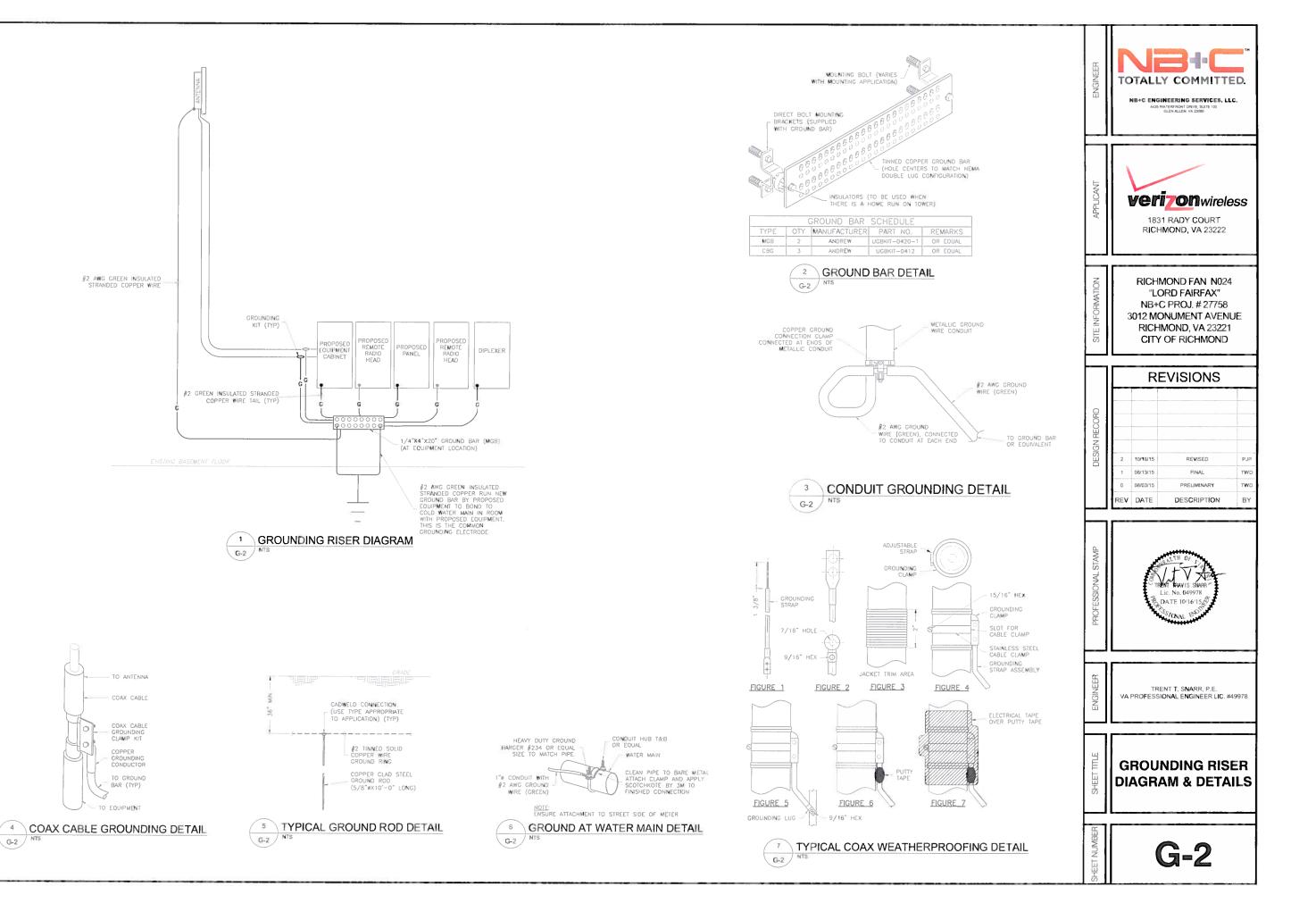
PROPOSED GROUND WIRING

EXISTING GROUND WIRING
TINNED COPPER GROUND BAR
1/4"X4"X12" OR 1/4"X4"X20"

COLLECTOR GROUND BAR MAIN GROUND BAR

CGB





GENERAL

- 1. THE TYPICAL NOTES SHALL APPLY FOR ALL CASES UNLESS OTHERWISE SPECIFICALLY DETAILED WITHIN THE DRAWINGS. SOME NOTES MAY NOT BE APPLICABLE IN PART OR IN WHOLE FOR EVERY PROJECT.
- 2. ANY ITEMS REFERENCED AS BEING ON "HOLD" ARE TO BE INCLUDED IN THE WORK AS SHOWN. HOWEVER, CONSTRUCTION OR FABRICATION IS NOT TO BEGIN UNTIL THE "HOLD" REFERENCE IS
- 3. DIMENSIONS CONTAINED WITHIN MUST BE FIELD VERIFIED AND CUSTOMER APPROVED PRIOR TO FABRICATION OF MATERIALS.
- 4. THE MODIFICATIONS DEPICTED IN THESE DRAWINGS ARE INTENDED TO PROVIDE STRUCTURAL SUPPORT FOR THE ADDITION OF THE ANTENNA SCREENING SYSTEMS OUTLINED WITHIN. THE EXISTING STRUCTURE OR BUILDING SHALL BE ANALYZED AND RETROFITTED AS REQUIRED, BY OTHERS, TO WITHSTAND THE LOADS IMPOSED BY THE NEW STEALTH @ ENCLOSURE SHOWN ON THE DRAWINGS.
- ANTENNA CONCEALMENT PRODUCTS SHALL BE INSTALLED BY A CONTRACTOR EXPERIENCED IN SIMILAR WORK. CARE SHALL BE TAKEN IN THE INSTALLATION OF ANY AND ALL MEMBERS IN ACCORDANCE WITH RECOGNIZED INDUSTRY STANDARDS AND PROCEDURES, ALL APPLICABLE OSHA SAFETY GUIDELINES ARE TO BE FOLLOWED. STEALTH® IS NOT PROVIDING FIELD INSTALLATION SUPERVISION.
- 6. THESE DRAWINGS INDICATE THE MAJOR OPERATIONS TO BE PERFORMED, BUT DO NOT SHOW EVERY FIELD CONDITION THAT MAY BE ENCOUNTERED. THEREFORE, PRIOR TO BEGINNING OF WORK THE CONTRACTOR SHOULD SURVEY THE JOB SITE THOROUGHLY TO MINIMIZE FIELD PROBLEMS.
- PROTECTION OF EXISTING STRUCTURES DURING THE COURSE OF THE CONSTRUCTION SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR.
- 8. THE STRUCTURAL INTEGRITY OF THIS STRUCTURE IS DESIGNED TO BE ATTAINED IN ITS COMPLETED STATE. WHILE UNDER CONSTRUCTION ANY TEMPORARY BRACING OR SHORING WHICH MAY BE REQUIRED TO MAINTAIN STABILITY PRIOR TO COMPLETION SHALL BE THE RESPONSIBILITY OF THE
- 9. THE PLANS AND DETAILS WITHIN DO NOT INCLUDE DETAILS OR DESIGN FOR DRAINAGE FROM OR WATERPROOFING OF EXTERIOR OR INTERIOR SURFACES OF THE EXISTING BUILDING OR STRUCTURE. THESE DETAILS MUST BE COMPLETED BY OTHERS.

DESIGN NOTES:

DESIGN LOADS:

STRUCTURAL DESIGN IS BASED ON THE INTERNATIONAL BUILDING CODE, 2012 EDITION & THE ASCE 7-10 STANDARD

BASIC WIND SPEED: 115 MPH (3-SEC GUST) PER ASCE 7-10 STANDARD IMPORTANCE FACTOR: 1.00 RISK CATEGORY: II EXPOSURE: B

STEALTHSKIN PANELS

- FASTENER HOLES IN STEALTHSKIN FOAM COMPOSITE PANELS ARE NOT FACTORY DRILLED AND MUST BE DRILLED IN THE FIELD.
- PANEL FASTENERS TO BE SPACED 12" O.C. MAX. AND LOCATED 6" MAX. HORIZONTALLY FROM EACH EDGE AT TOP AND BOTTOM OF PANEL. MAINTAIN 1 1/2" MIN. EDGE DISTANCE FROM ALL EDGES. 4' WIDE PANELS REQUIRE (4) FASTENERS TOP AND BOTTOM. 5' WIDE PANELS REQUIRE (4) FASTENERS TOP AND BOTTOM. CORNER PANELS REQUIRE (3) FASTENERS TOP AND BOTTOM PER
- 3. WHEN FASTENER BOLT HEAD OR NUT BEARS DIRECTLY ON SURFACE OF STEALTHSKIN PANEL, TIGHTEN PANEL BOLTS ONLY 1/2 TURN PAST SNUG. APPLY THREAD LOCK COMPOUND TO THE THREADS OF METAL BOLTS. USE THIN BEAD OF EPOXY TO LOCK THE NUTS OF FRP BOLTS AND STEALTH® STAINLESS STEEL PANEL BOLTS. USE WASHER OR FLANGED HEAD BOLT, OR FASTENER WITH LARGE BEARING SURFACE.
- 4. PANELS WILL EXPAND AND CONTRACT DUE TO TEMPERATURE. WHEN INSTALLING PANELS IN COLD TEMPERATURES, EVENLY SPACE PANELS ALONG LENGTH OF SCREEN WALL WITH EQUAL GAPS BETWEEN PANELS TO ALLOW FOR EXPANSION DURING WARM TEMPERATURES.
- 5. ADJACENT FLAT PANELS ARE JOINED BY A VERTICAL FOAM SPLINE THAT IS INSERTED INTO GROOVES CUT INTO THE SIDE OF EACH PANEL. DO NOT LIFT PANELS BY GROOVES, PANELS MUST BE LIFTED WITH FORCE DIRECTED ONTO PANEL SURFACE.
- 6. ADJACENT RADIUS PANELS ARE JOINED BY A VERTICAL H-CHANNEL. INSERT PANELS INTO EACH SIDE OF H-CHANNEL.
- RADIUS PANELS MUST BE EVENLY SPACED ALONG RADIUS SUPPORT, CONTRACTOR TO MEASURE LENGTH OF RADIUS SUPPORT AND DIVIDE BY THE NUMBER OF RADIUS PANELS TO DETERMINE PROPER SPACING. H-CHANNEL CONNECTORS ARE USED TO COVER THE GAP BETWEEN PANELS AND TO ALLOW FOR PANEL EXPANSION AND CONTRACTION
- 8. SURFACES OF PANELS SHALL BE COATED WITH SUITABLE PAINT FOR UV PROTECTION. TOP EDGE OF PANEL MUST BE COVERED TO PREVENT WATER TRAVEL BETWEEN PANELS, USE SHERWIN WILLIAMS "COROTHANE II" OR PRE APPROVED EQUIVALENT.
- EXPOSED TOP AND SIDE FOAM EDGES OF PANELS MUST BE COVERED OR COATED FOR UV PROTECTION. STEALTH® WILL PROVIDE PANEL EDGE CAPS TO BE FIELD APPLIED FOR THIS PURPOSE FOR MOST APPLICATIONS. PANEL EDGE CAPS TO BE SECURED WITH TEK SCREW INSTALLED @ 18" MAXIMUM SPACING ON THE INSIDE FACE OF THE PANEL.

DESIGN REACTIONS (ASD):

R = 30 PLF (1.0 DEAD)

V = 40 PLF (0.6 WIND)

APPROXIMATE WEIGHT OF CHIMNEY (EXCLUDING ANTENNAS, MOUNTS, AND STEEL): 175 lbs

THE DESIGN REACTIONS V & R ARE TYPICAL ALONG THE FRP VERTICAL ANGLES. THE DESIGN REACTION 'V' IS CONSIDERED TO ACT IN ANY HORIZONTAL DIRECTION. THE CONNECTION OF THE FRP ANGLES TO THE EXISTING STRUCTURE TO BE BY OTHERS FOR THE DESIGN REACTIONS LISTED ABOVE. THE ADEQUACY OF THE EXISTING STRUCTURE TO SUPPORT THE DESIGN REACTIONS TO BE DETERMINED BY OTHERS.

STRUCTURAL STEEL

- STEEL FABRICATION AND INSTALLATION SHALL BE DONE IN ACCORDANCE WITH THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION MANUAL AND SPECIFICATIONS.
- 2. STEEL I-SHAPE, ANGLE, CHANNEL, AND MISCELLANEOUS MEMBERS SHALL CONFORM TO ASTM A36 (36 KSI MIN. YIELD STRENGTH) STEEL SPECIFICATIONS, U.N.O.
- 3. STEEL PLATE MEMBERS SHALL CONFORM TO ASTM A36 (36 KSI MIN. YIELD STRENGTH) STEEL SPECIFICATIONS U.N.O.
- 4. STEEL PIPE AND ROUND TUBE MEMBERS SHALL CONFORM TO ASTM A500 GRADE B (42 KSI MIN. YIELD STRENGTH) STEEL SPECIFICATIONS, U.N.O.
- 5. STEEL RECTANGULAR AND SQUARE TUBE MEMBERS SHALL CONFORM TO ASTM A500 GRADE B (46 KSI MIN. YIELD STRENGTH) STEEL SPECIFICATIONS, U.N.O.
- 6. STEEL WIDEFLANGE MEMBERS SHALL CONFORM TO ASTM A992 (50 KSI MIN, YIELD STRENGTH) STEEL SPECIFICATIONS U.N.O.
- BOLTS SHALL BE DOMESTIC, NEW HIGH STRENGTH GALVANIZED BOLTS, BEARING TYPE "X" (THREADS EXCLUDED), U.N.O., AND SHALL CONFORM TO ASTM A325 SPECIFICATIONS, U.N.O.
- STRUCTURAL BOLTS SHALL BE TIGHTENED USING TURN-OF-THE-NUT METHOD.
- BOLT HOLE EDGE DISTANCES SHALL BE A MINIMUM 1", U.N.O.
- ALL WELDING SHALL BE PERFORMED IN ACCORDANCE WITH THE SPECIFICATIONS AND PROCEDURES OF THE AMERICAN WELDING SOCIETY (AWS) BY CERTIFIED WELDERS PER AWS D1.1 FOR STEEL AND AWS D1.2 FOR ALUMINUM. ALL WELDING SHALL BE PERFORMED IN A SHOP APPROVED BY THE BUILDING OFFICIAL. STEEL WELDS SHALL BE BY E70XX, LOW HYDROGEN
- 11. STEEL SHALL BE HOT DIP GALVANIZED PER ASTM A123 SPECIFICATIONS AFTER FABRICATION OR PAINTED WITH RUST INHIBITIVE PRIMER.
- 12. STEEL HARDWARE SHALL BE HOT DIP GALVANIZED PER ASTM A153, U.N.O.
- 13. AFTER ANY FIELD HOLE PUNCHING / DRILLING OR CUTTING HAS BEEN COMPLETED, OR FOR ANY DAMAGED STRUCTURAL MEMBER, TOUCH UP ALL BARE MATERIAL AND WELDED AREAS WITH TWO COATS OF GAL-CON OR SIMILAR MATERIAL TO RESTORE THE GALVANIZED PROTECTION ON
- 14. ALL WELDED STEEL ASSEMBLIES AND INDIVIDUAL STEEL PARTS SHOULD HAVE THE PART NUMBER WELDED ONTO THE PART OR ASSEMBLY. THE PART NUMBERS SHOULD BE LOCATED CONSISTENTLY AND AWAY FROM ANY CONNECTION POINT TO AVOID ANY INTERFERENCE ISSUES WITH THE WELD.

FRP STRUCTURAL MEMBERS

- FRP STRUCTURAL SHAPES SHALL BE STEALTH FRP SERIES 1525, MANUFACTURED USING THE PULTRUSION PROCESS
- IF PREFABRICATED MEMBERS DO NOT ASSEMBLE PER PLAN, CONTACT STEALTH ® CONCEALMENT SOLUTIONS, INC. BEFORE CUTTING OR ALTERING FABRICATED MEMBERS.
- FRP STRUCTURAL MEMBERS SHALL BE FABRICATED AND ASSEMBLED AS INDICATED ON THE 3. DRAWINGS.
- 4. THE CONTRACTOR SHALL PROTECT THE FRP STRUCTURAL MEMBERS FROM ABUSE TO PREVENT BREAKAGE, NICKS, GOUGES, ETC. DURING FABRICATION, HANDLING, AND INSTALLATION. 5. FRP BOLTS SHOULD BE TIGHTENED 1/2 TURN PAST SNUG AND LOCKED WITH EPOXY.
- **DISCLAIMERS:**

1. ALL STRUCTURAL COMPONENTS TO BE CONNECTED TOGETHER SHALL BE COMPLETELY FIT UP ON THE GROUND OR OTHERWISE VERIFIED FOR COMPATIBILITY PRIOR TO LIFTING ANY COMPONENT INTO PLACE. REPAIRS REQUIRED DUE TO FIT-UP OR CONNECTION COMPATIBILITY PROBLEMS AFTER PARTIAL ERECTION ARE THE FINANCIAL RESPONSIBILITY OF THE CONTRACTOR.

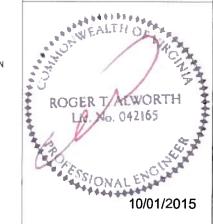
SPECIAL INSPECTIONS & STRUCTURAL OBSERVATION:

- 1. STEEL FABRICATION SHALL BE DONE ON THE PREMISES OF A FABRICATOR REGISTERED AND APPROVED AS REQUIRED BY THE IBC TO PERFORM SUCH WORK WITHOUT SPECIAL INSPECTION.
- 2. NO FIELD WELDING SHALL BE PERMITTED.
- NO STRUCTURAL OBSERVATION IS REQUIRED.



3034-A ASHLEY PHOSPHATE RD. NORTH CHARLESTON, SC 29418 P: (800)-755-0689 F: (843)-207-0207 WWW.STEALTHCONCEALMENT.COM

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DRAWING NOT TO SCALE, UNLESS SPECIFIED OTHERWISE DIMENSIONS SHOWN ARE IN INCHES **TOLERANCES**

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10NUMENT AVE IOND, VA 23221 RICHMOND

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SITE: JOB #: VZ15-01200W-17R0 DRAWN; TPH-VSE REVISION 10/1/15

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COA: 0413000316 ROGER T. ALWORTH, P.E.

	REVISION TABLE								
REVISION	DESIGNER	DATE	SCOPE OF REVISION						
0	TPH-VSE	9/8/2015	FINAL ENGINEERING						
1	TPH-VSE	10/1/2015	REVISED PER CUSTOMER REDLINES						
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ANGULAR X ± 0.5°

TOLERANCES
DECIMALS
X ± 1/16"

XXX ± 0.01" SPECIFICATIONS

FAIRFAX CONSULTING RICHMOND FAN N024; LORD 3012 MONUMENT AVE RICHMOND, VA 23221 ಹ BUILDING NETWORK

SITE: JOB #: VZ15-01200W-17R0
DRAWN: TPH-VSE
DESIGNED: TPH-VSE
REVISED: TPH-VSE

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NOTES

10/1/15

REVISION

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