

E911 ☐
PARCEL ☒

DIRECTIONS TO SITE:

FROM RICHMOND:
DEPART RADY CT TOWARD RADY ST. (108 FT). TURN LEFT ONTO RADY ST (0.2 MI). TURN LEFT ONTO MAGNOLIA ST (0.6 MI). TURN RIGHT ONTO US-360 W/ MACHANICSVILLE TURNPIKE (141 FT). TAKE RAMP FOR I-64 W (4.9 MI). AT EXIT 79, TAKE RAMP RIGHT FOR I-64 WEST TOWARD CHARLOTTESVILLE (67.0 MI). AT EXIT 120, TAKE RAMP RIGHT FOR 5TH ST TOWARD CHAROTTESVILLE (0.2 MI). TURN RIGHT ONTO 5TH ST EXT (0.1 MI). KEEP STRAIGHT ONTO 5TH SW (0.3 MI). TURN RIGHT ONTO BENT CREEK RD. SITE IS BEHIND WEGMANS ADJACENT TO I-64

verizon

FRY'S SPRING
100 WEGMANS WAY
CHARLOTTESVILLE, VA 22902

PROJECT DESCRIPTION

INSTALLATION AND OPERATION OF ANTENNAS AND ASSOCIATED
EQUIPMENT IN A RAWLAND SITE

UTILITIES INFORMATION:
POWER: DOMINION VIRGINIA POWER
(888) 667-3000
TELEPHONE: EMBARQ
(434) 974-6928



2 WORKING DAYS
BEFORE YOU DIG
811
TOLL FREE
MISS UTILITY

EMERGENCY INFORMATION:
LOCAL FIRE AND EMERGENCY SERVICES
(434) 296-5833
LOCAL EMERGENCY POLICE DISPATCH
(434) 296-5807

PROJECT TEAM

REAL ESTATE:	CHAD FRECKMAN	PHONE NUMBER	(434) 996-4473
ZONING:	STEPHEN WALLER	PHONE NUMBER	(434) 825-0617
CONSTRUCTION:	STEVE POOLE	PHONE NUMBER	(540) 290-6704
UTILITIES:	RICK GLISSON	PHONE NUMBER	(804) 658-6871
ENVIRONMENTAL CONSULTANT:	ANDREW HENDRICKS	PHONE NUMBER	(703) 478-0055

REV. NO.	DESCRIPTION	BY	DATE	REV. NO.	DESCRIPTION	BY	DATE
1	PRELIMINARY SITE PLAN	JYY	06/02/17				
2	PRELIMINARY CONSTRUCTION DRAWINGS	JYY	07/27/17				
3	FINAL CONSTRUCTION DRAWINGS	JYY	03/30/18				

A & E CONSULTING TEAM

ARCHITECTURE AND ENGINEERING:
CLARK NEXSEN
8000 TOWERS CRESCENT DRIVE, SUITE 1350
VIENNA, VA 22182
PROJECT MANAGER:
JUSTIN YOON, PE
(703) 822-4846

PROJECT SUMMARY

PROPERTY OWNER:
5TH STREET STATION VENTURES, LLC
5 WEST BOARD STREET, SUITE B
FAIRBURN GA, 30213
APPLICANT INFORMATION:
VERIZON WIRELESS
1831 RADY COURT
RICHMOND, VA 23222
CONTACT:
TELEPHONE:
FAX NUMBER:

MARC CORNELL
(804) 548-4079
(804) 321-0398

SUBJECT:
CAUSEWAY CONSULTANTS, P.C.
LAND SURVEYOR'S
P.O. BOX 15039
CHESAPEAKE, VA 23328
CONTACT:
TELEPHONE:

ED WHITE, LS
(757) 482-0474

PROJECT DATA:
ZONING:
TAX MAP#
ACREAGE
JURISDICTION
SITE TYPE
TOWER TYPE
TOWER HEIGHT
OVERALL HEIGHT
LEASE AREA
AREA OF LAND DISTURBANCE

POSC
076M1-00-00-00200
47.6826 AC
ALBEMARLE COUNTY
RAWLAND
MONOPOLE
103± AGL
105± AGL
1150± SF
2200± SF

GEOGRAPHIC COORDINATES:
LATITUDE:
LONGITUDE:
ELEVATION:

38° 00' 29.2267" N (NAD 83)
78° 29' 55.9827" W (NAD 83)
431.6' (NAD 88)

ADA COMPLIANCE:
FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION.
SITE WILL NOT BE SERVED BY CITY SEWER OR WATER.

INDEX OF DRAWINGS

Sheet Number	Sheet Title
GENERAL	
G-1	COVER SHEET
G-2	GENERAL NOTES AND CONCRETE EQUIPMENT DETAILS
CIVL	
C-1	SITE PLAN
C-1A	TREE INVENTORY
C-1B	AREA MAP
C-2	ENLARGED SITE PLAN
C-3	ELEVATION VIEW
C-4	GRADING PLAN
C-4A	GRADING DETAILS AND NOTES
C-5	FENCE AND SINKAGE DETAILS
C-6	ICE BRIDGE DETAILS
C-7	LP PIPING DIAGRAM
C-8	EQUIPMENT LAYOUT AND NOTES
C-9	CONCRETE PAD DETAILS
ELECTRICAL	
E-1	ELECTRICAL SITE PLAN
E-2	GROUNDING PLAN
E-3	GROUNDING SITE PLAN
E-4	CONDUIT CONNECTION

SHEET TOTAL:
18

CLARK NEXSEN
1111 E. Main Street,
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804.644.4690

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1831 RADY COURT
RICHMOND, VA 23222



SITE INFO:

FRY'S SPRING
RAWLAND

100 WEGMANS WAY
CHARLOTTESVILLE, VA
22902

ALBEMARLE COUNTY

DESIGN: JYY
DRAWN: WMDD/RLG
REVIEW: JYY
TTV DATE: 02/14/17
COMM. NO. 5833-572

SUBMITTALS

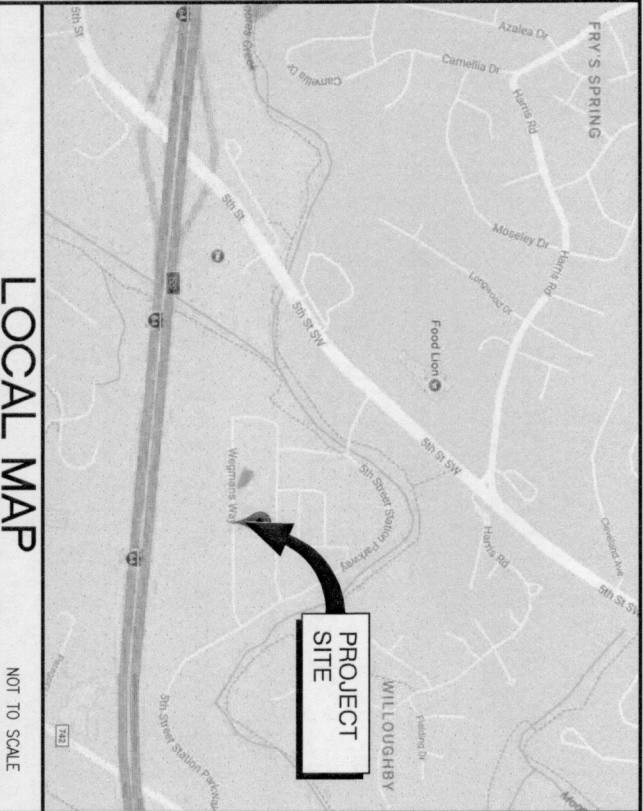
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SHEET NAME:

COVER SHEET

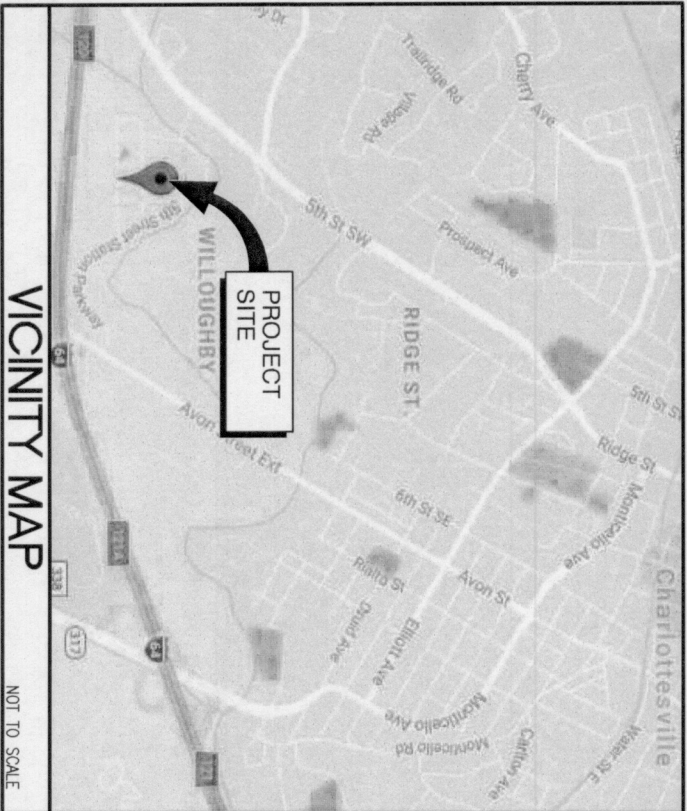
SHEET NO.:

G-1



LOCAL MAP

NOT TO SCALE



VICINITY MAP

NOT TO SCALE



GENERAL NOTES

- COORDINATE THE WORK OF OTHER TRADES INCLUDING, BUT NOT LIMITED TO, THE REQUIREMENTS FOR SLEEVES, INSERTS, HOLES, AND ANCHORS.
- REPORT DISCREPANCIES IN DIMENSIONS BETWEEN DIFFERENT DRAWINGS TO THE ENGINEER PRIOR TO BEGINNING WORK IN AREAS THAT WILL BE AFFECTED.
- DETAILS APPLY NOT ONLY WHERE SPECIFICALLY INDICATED OR REFERENCED, BUT ALSO IN ALL OTHER CASES WHERE THE NATURE OF THE CONSTRUCTION REQUIRES THEIR USE. DETERMINE APPLICABILITY FROM DESCRIPTIVE TITLES OR FROM THE SIMILARITY OF A CONSTRUCTION CONDITION TO ANOTHER CONDITION WHERE THE DETAIL IS SPECIFICALLY INDICATED OR REFERENCED.
- CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, AND SUPERVISION OF THE WORK ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- REPRODUCTION OF CONTRACT DRAWINGS SHALL NOT BE USED AS SHOP DRAWINGS UNDER ANY CIRCUMSTANCE.

EXCAVATION NOTES

- SELECT FILL MATERIAL: ASTM D 2487 SOIL CLASSIFICATION GROUPS GW, GP, GM, SW, SP, AND SM, OR A COMBINATION OF THESE GROUP SYMBOLS; FREE OF WASTE, FROZEN MATERIALS, AND VEGETATION, WITH LESS THAN 5 PERCENT BY WEIGHT OF STONE. STONES SHALL BE NO LARGER THAN 1-1/2 INCHES IN ANY DIRECTION.
- FOUNDATIONS SHALL NOT BE PLACED ON FROZEN GROUND.
- DESIGN ALLOWABLE SOIL BEARING PRESSURE IS 2000 PSF ON SUITABLE RESIDUAL SOIL. OR PROPERLY COMPACTED SELECT FILL. THE ALLOWABLE SOIL BEARING PRESSURE IS AN ASSUMED VALUE. A GEOTECHNICAL INVESTIGATION WAS NOT CONDUCTED AS PART OF THIS PROJECT. SELECT FILL SHALL BE COMPACTED TO A MINIMUM OF 95% OF THE STANDARD PROCTOR MAXIMUM DRY DENSITY (ASTM D-698).
- PRIOR TO PLACING FOUNDATION CONCRETE, THE CONTRACTOR SHALL HIRE A TESTING LABORATORY AND GEOTECHNICAL ENGINEER LICENSED IN THE COMMONWEALTH OF VIRGINIA. THE LICENSED ENGINEER SHALL VERIFY THE SUPPORTING SOILS ARE CAPABLE OF SUPPORTING THE DESIGN ALLOWABLE SOIL BEARING PRESSURE AND SUBMIT A TEST REPORT FOR APPROVAL PRIOR TO CONSTRUCTION.

STEEL NOTES

- ALL STRUCTURAL STEEL WORK SHALL BE IN ACCORDANCE WITH THE AISC, "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS" DATED JUNE 22, 2010, INCLUDING CURRENT REVISIONS AND "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES" DATED APRIL 14, 2010.
- STRUCTURAL STEEL SHALL BE IN ACCORDANCE WITH THE FOLLOWING:

WIDE FLANGE SHAPES

SQUARE AND RECTANGULAR HSS

ROUND HSS

CHANNELS, PLATES AND ANGLES

THREADED ROD

HIGH STRENGTH BOLTS

ANCHOR RODS

PIPE

ASTM A992

ASTM A500 GRADE B Fy=46 KSI

ASTM A500 GRADE B Fy=42 KSI

ASTM A36

ASTM A36

ASTM A36

ASTM A325

ASTM F1554 GRADE 36

ASTM A53 GRADE B

CONCRETE NOTES

- CONCRETE CONSTRUCTION SHALL COMPLY WITH PROVISIONS OF THE FOLLOWING CODES, SPECIFICATIONS, AND STANDARDS: AMERICAN CONCRETE INSTITUTE (ACI) 301-10, SPECIFICATIONS FOR STRUCTURAL CONCRETE; ACI 318-11, "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE".
- CONCRETE SHALL BE NORMAL WEIGHT, 6% PLUS OR MINUS 1.5% AIR ENTRAINED AND HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 4000 PSI UNLESS OTHERWISE NOTED.
- CONCRETE MATERIALS SHALL BE IN ACCORDANCE WITH THE FOLLOWING:

PORTLAND CEMENT

FLY ASH

ASTM C 150, TYPE 1

ASTM C 618, CLASS F (NOT TO EXCEED 15% OF CEMENT BY WEIGHT)

ASTM C 33

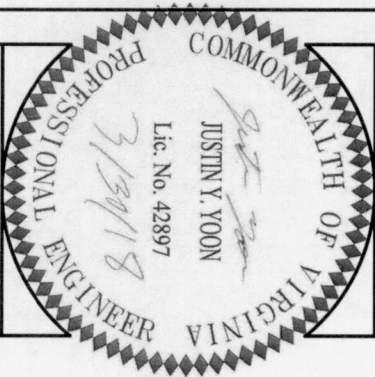
POTABLE

CLARK NEXSEN

1111 E. Main Street,
Suite 1505
Richmond, VA 23219
804.644.4650



1831 RADY COURT
RICHMOND, VA 23222



SITE INFO:

FRY'S SPRING
RAWLAND

100 WEGMANS WAY
CHARLOTTEVILLE, VA
22902

ALBEMARLE COUNTY

DESIGN: -
DRAWN: -
REVIEW: -
TIV DATE: 02/14/17
COMM. NO. 5833-572

SUBMITTALS		
SYM.	DESCRIPTION	DATE
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Δ	PRELIMINARY CONSTRUCTION DRAWINGS	07/27/17
Δ	FINAL CONSTRUCTION DRAWINGS	03/30/18
Δ		
Δ		
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SHEET NAME:

GENERAL NOTES
AND CONCRETE
EQUIPMENT
DETAILS

SHEET NO.:

G-2



1. TOPOGGRAPHIC SURVEY PERFORMED BY CAUSEWAY CONSULTANTS, P.C., P. O. BOX 15039, CHEMSAPEAKE, VIRGINIA, 23328-50394. PHONE: 757-482-0474. SURVEY DATE: APRIL 19, 2017.
2. COORDINATES AND ELEVATIONS SHOWN WERE ESTABLISHED USING STATIC GPS OBSERVATIONS, POST PROCESSED THROUGH NOAA'S OPUS WEBSITE AND CONVERTED TO NAD 83 AND MD 83. U.S. SURVEY FOOT, FOR THE VERTICAL DATUM AND HORIZONTAL COORDINATES, RESPECTIVELY USING U.S. ARMY CORPS OF ENGINEERS CORRESPOND SOFTWARE, VERSION 6.01.
3. NO SUB-SURFACE INVESTIGATION WAS PERFORMED BY CAUSEWAY CONSULTANTS, P.C. THIS SURVEY DOES NOT GUARANTEE THE "EXISTENCE OR NONEXISTENCE" OF UNDERGROUND UTILITIES. PRIOR TO ANY CONSTRUCTION OR EXCAVATION, CONTACT MISS UTILITY AT 1-800-552-7901 TO CONFIRM THE LOCATION OR EXISTENCE OF UNDERGROUND UTILITIES.
4. THIS SURVEY WAS DONE WITHOUT THE BENEFIT OF A TITLE REPORT AND MAY NOT DEPICT ANY OR ALL EASEMENTS THAT MAY AFFECT THE PROPERTY.
5. PROPERTY IS SUBJECT TO ALL EASEMENTS AND RESTRICTIONS OF RECORD.
6. THIS SURVEY DOES NOT REPRESENT A BOUNDARY SURVEY. THE RIGHT-OF-WAY, PROPERTY LINE AND/OR EASEMENTS SHOWN HEREON REPRESENT A COMPILATION OF RECORDED DEEDS, PLATS, G.I.S. RECORDS AND TAX MAPS.
7. THE AREA OF THE PROPOSED GENERATOR APPEARS TO LIE WITHIN FLOOD ZONE "X" ACCORDING TO THE FEDERAL EMERGENCY MANAGEMENT AGENCY - NATIONAL FLOOD INSURANCE COMMUNITY NUMBER 110036, 0407.D, DATED FEBRUARY 4, 2005.
8. THE EXISTENCE OF HAZARDOUS WASTE, VEGETATED WETLANDS, OR TIDAL WETLANDS, WAS NEITHER INVESTIGATED, NOR CONFIRMED DURING THE PERFORMANCE OF THIS SURVEY.

1. NEW VERIZON WIRELESS NON-EXCLUSIVE VARIABLE WIDTH INGRESS/EGRESS AND UTILITY EASEMENT

EXISTING	NEW
CONC.	
	PROPERTY LINE
	LEASE AREA
	EASEMENT
	BUILDING (FOOTPRINT)
	FENCE
	TREELINE
	EDGE OF PAVEMENT
	EDGE OF GRAVEL
	CONTOURS
	MONOPOLE
	LIGHT POLE

FOR 22" X 34" PLOT - 1" = 150'
FOR 11" X 17" PLOT - 1" = 300'

verizon[✓]
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RICHMOND, VA 23222



100 WEGMANS WAY
CHARLOTTEVILLE, VA
22902

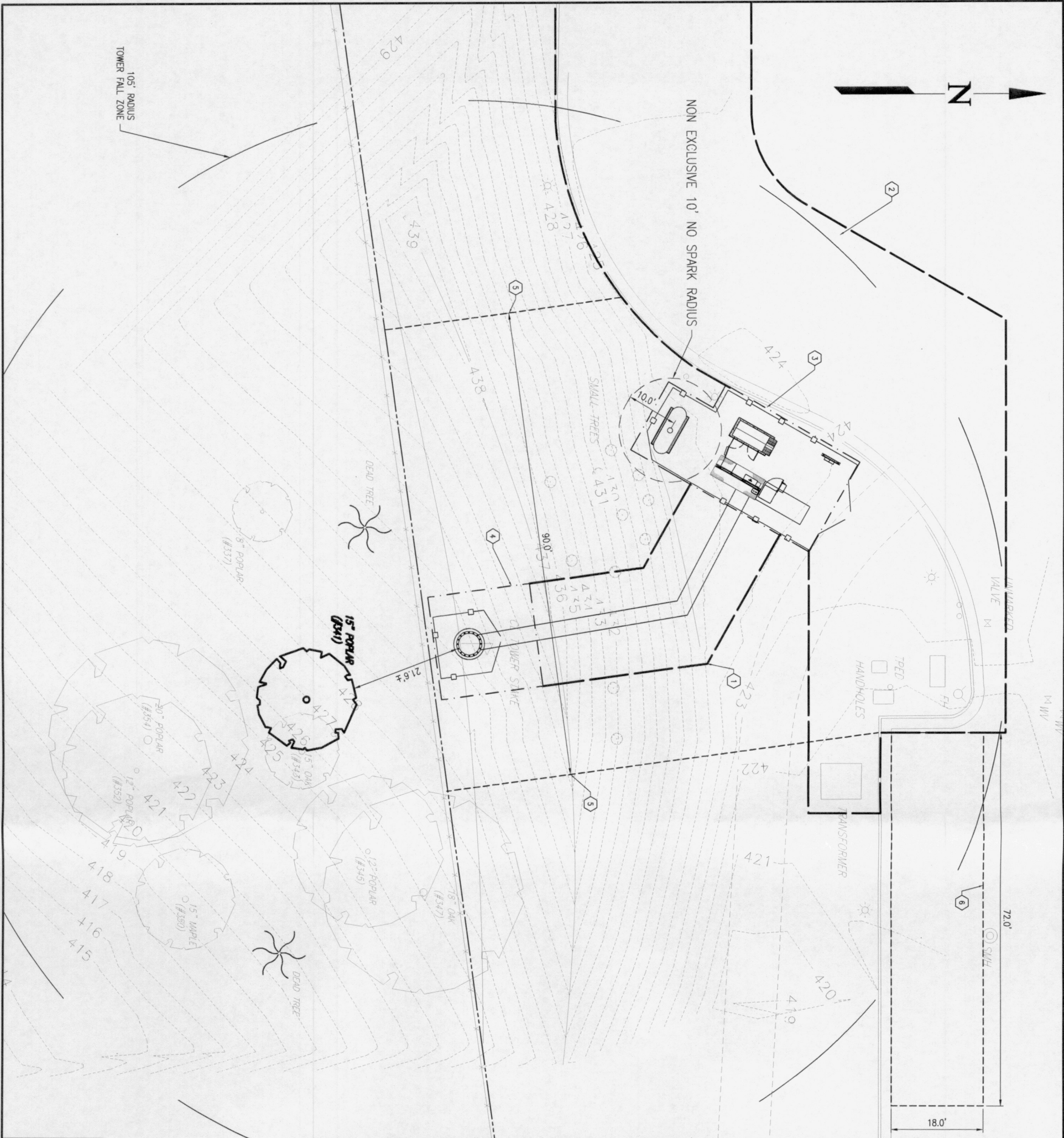
ALBEMARLE COUNTY

DESIGN:	JYY
DRAWN:	WMID/RLC
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TTV DATE:	02/14/17
COMM. NO.	5833-572
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4		
5		
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7		
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10		

SITE PLAN

SHEET NO.:



NOTES

1. EXTREME CARE SHALL BE TAKEN NOT TO DAMAGE EXISTING TREES THAT ARE TO REMAIN
2. CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACEMENT OR COMPENSATION OF DAMAGED TREES
3. SITE SHALL BE MAINTAINED IN ACCORDANCE WITH A TREE CONSERVATION PLAN TO BE PREPARED BY A CERTIFIED ARBORIST, AS REQUIRED BY SEC. 5.1.40(C)(4)
4. TRIM EXISTING BRANCHES THAT ENROACH INTO THE FENCED IN COMPOUND AREA.

LEASE NOTES

1. NEW VERIZON WIRELESS NON-EXCLUSIVE 20' WIDE ACCESS AND UTILITY EASEMENT
2. NEW VERIZON WIRELESS NON-EXCLUSIVE VARIABLE WIDTH INGRESS/EGRESS AND UTILITY EASEMENT
3. NEW VERIZON WIRELESS 750 SF LANDSPACE FOR GROUND EQUIPMENT
4. NEW VERIZON WIRELESS 20'x20' LANDSPACE FOR MONOPOLE TOWER
5. NEW VERIZON WIRELESS 90' WIDE TEMPORARY CONSTRUCTION STAGING AREA
6. NEW VERIZON WIRELESS TEMPORARY CONSTRUCTION STAGING AREA ON EXISTING 8 PARKING SPACES (APPROXIMATELY 72' X 18')

TREE INVENTORY

NUMBER	SPECIES	CALIPER	AGL. HEIGHT	CANOPY HEIGHT
(337)	POPLAR	8"	57'	487' AMSL
(341)	POPLAR	15"	98'	525' AMSL
(343)	OAK	15"	92'	518' AMSL
(345)	POPLAR	12"	87'	509' AMSL
(347)	OAK	18"	86'	512' AMSL
(350)	MAPLE	15"	100'	520' AMSL
(352)	POPLAR	12"	94'	517' AMSL
(354)	POPLAR	20"	107'	530' AMSL

*TOTAL TREES TO BE REMOVED: NONE

NOTES:

1. REFERENCE TREE IS IDENTIFIED ABOVE IN BOLD.
2. TREE DAPPLINES ARE DRAWN TO SCALE.

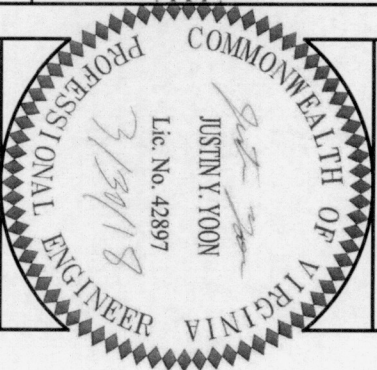
GRAPHIC SCALE(S)

FOR 22" X 34" PLOT - 1" = 10' 0 5' 10' 20'
FOR 11" X 17" PLOT - 1" = 20'

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1111 E. Main Street,
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verizon

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RICHMOND, VA 23222



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RAWLAND

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22902

ALBEMARLE COUNTY

DESIGN: JYY
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Δ	FINAL CONSTRUCTION DRAWINGS	03/20/18
Δ		
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SHEET NAME:

TREE INVENTORY

SHEET NO.:

C-1A



CONSTRUCTION NOTES

- 1. Ⓢ OF TOWER:
LATITUDE: N. 38°-00'-29.2267" (NAD 83)
LONGITUDE: W. 78°-29'-55.9827" (NAD 83)
ELEVATION: 431.6 (NAD 88)
- 2. 2000' RADIUS FROM Ⓢ OF TOWER
- 3. EXISTING DWELLING/BUILDING (TYP)

GRAPHIC SCALE(S)

FOR 22" X 34" PLOT - 1" = 2500' 0 1250' 2500' 5000'

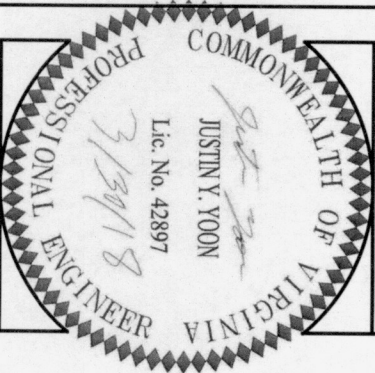
FOR 11" X 17" PLOT - 1" = 5000'

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RICHMOND, VA 23222



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22902

ALBEMARLE COUNTY

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DRAWN:	WMD
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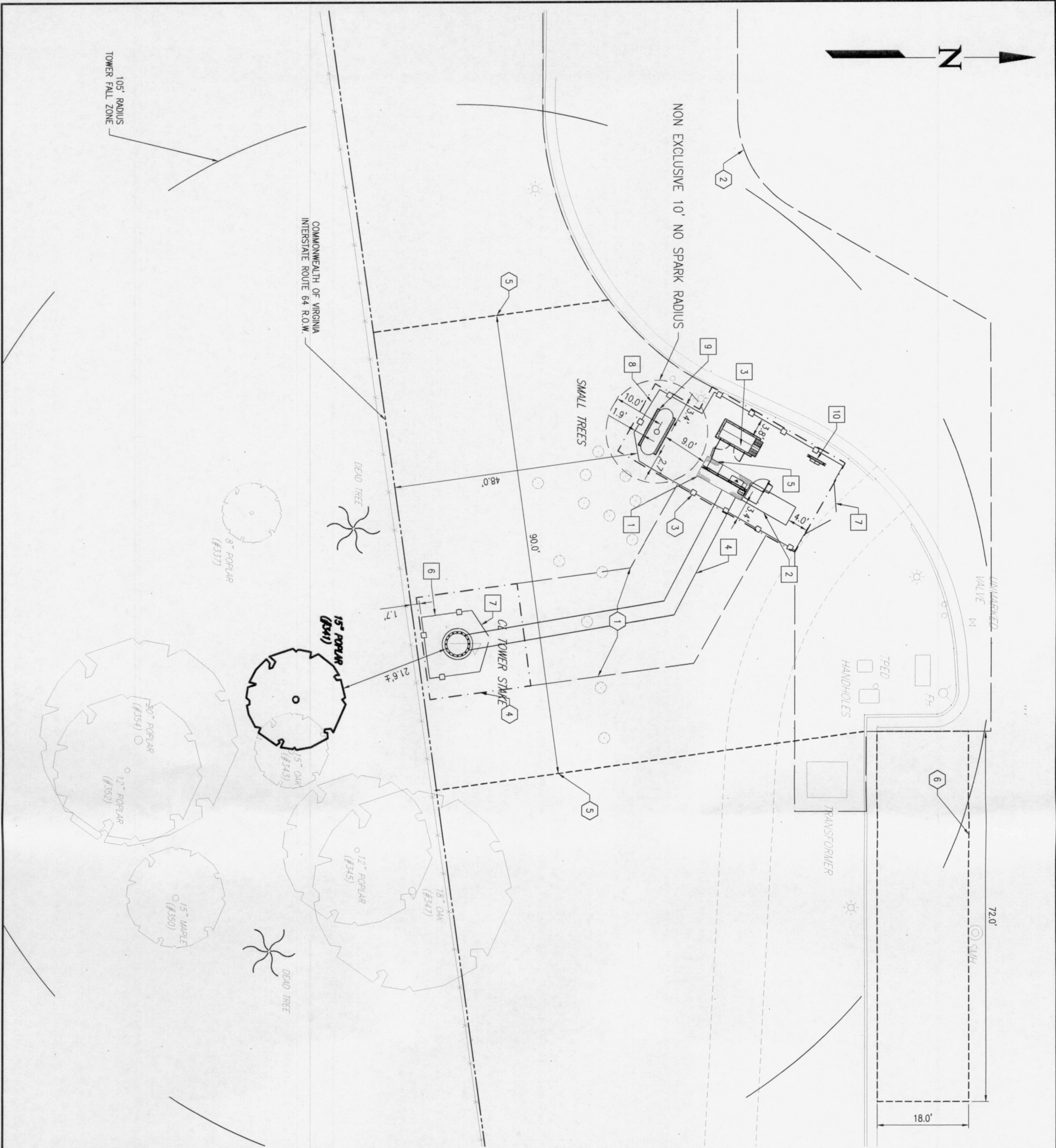
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SM#	DATE
Δ PRELIMINARY SITE PLAN	08/02/17
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Δ FINAL CONSTRUCTION DRAWINGS	03/30/18
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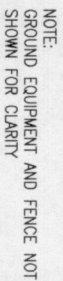
SHEET NAME:

AREA MAP

SHEET NO.:

C-1B





NOT TO SCALE



ENLARGED VIEW
NO SCALE

1. NO COMMERCIAL ADVERTISING MATERIAL WILL BE USED IN CONJUNCTION WITH THE NEW TOWER.
2. LIGHTNING ROD WILL NOT EXCEED 2' ABOVE THE TOWER AND WILL BE 1" DIAMETER
3. MONOPOLE, ANTENNAS, MOUNTS AND ALL NEW GROUND EQUIPMENT WILL BE PAINTED TO COUNTY APPROVED COLOR, SHERWIN WILLIAMS (#6099) JAVA BROWN
4. NO POINT ON THE BACK OF THE ANTENNA SHALL BE MORE THAN 26 INCHES FROM THE FACE OF THE MONOPOLE, AS DETAILED IN THE ANTENNA PLAN VIEW PROVIDED ON THIS SHEET
5. ALL VERTICAL CABLES, WIRES, AND SIMILAR ATTACHMENTS SHALL BE RUN VERTICALLY WITHIN THE MONOPOLE'S STRUCTURE

1. ANTENNAS WILL BE INSTALLED USING A MODIFIED FLUSH-DESIGN WITH LOW-PROFILE MOUNTING BRACKETS.
2. FINAL MOUNTING DESIGN MAY VARY SLIGHTLY DEPENDING ON AVAILABILITY AND SPECIFIC MANUFACTURER.

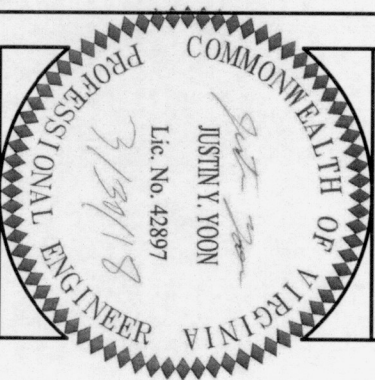
SUBMITTALS

ELEVATION VIEW

SHEET NO.:

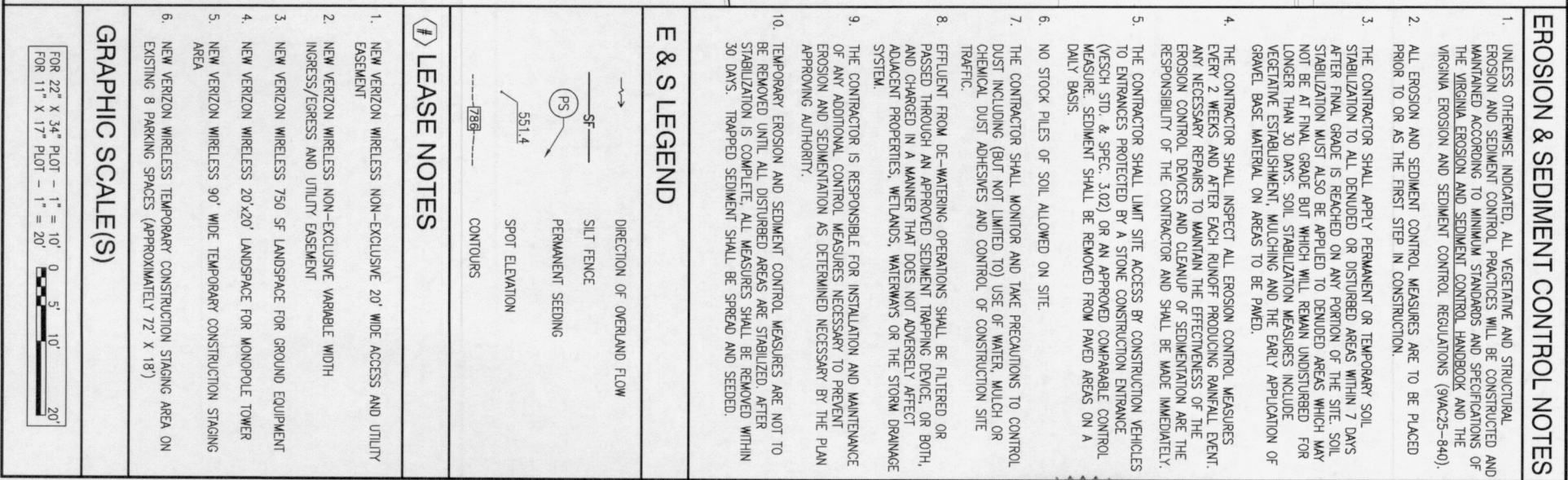


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FRY'S SPRING
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1831 BABY COURT
RICHMOND, VA 23222

COMMONWEALTH OF VIRGINIA

Justin Y. Yoon

Lic. No. 42897

3/13/18

PROFESSIONAL ENGINEER

SITE INFO:

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RAWLAND

100 WEGMANS WAY
CHARLOTTEVILLE, VA
22902

ALBEMARLE COUNTY

DESIGN: JTY
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SHEET NAME:

GRADING PLAN

SHEET NO.: C-4

TEMPORARY SILT FENCE

NO SCALE

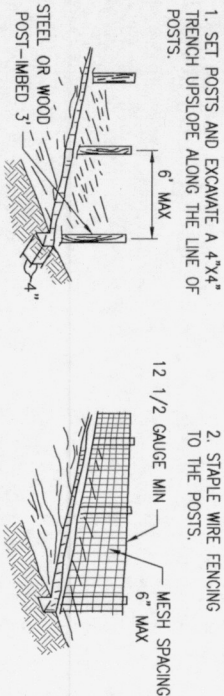
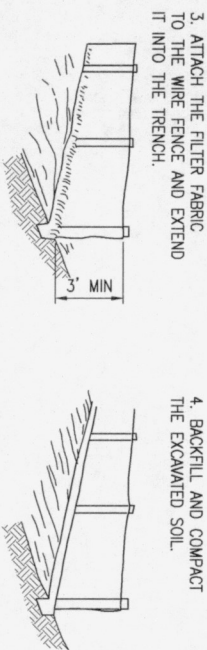
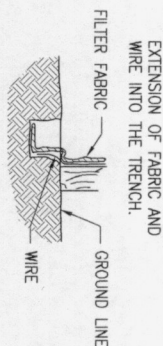


TABLE 3.31-B (Revised June 2003) TEMPORARY SEEDING SPECIFICATIONS QUICK REFERENCE FOR ALL REGIONS		
APPLICATION DATES	SEED SPECIES	APPLICATION RATES
Sept. 1–Feb. 15	50/50 Mix of Annual Ryegrass (lolium multi-florum) & Cereal (Winter) Rye (Secale cereale)	50–100 (lbs/acre)
Feb. 16–Apr. 30	Annual Ryegrass (lolium multi-florum)	60–100 (lbs/acre)
May, 1–Aug. 31	German Millet	50 (lbs/acre)

FERTILIZER & LIME

- Apply 10–10–10 FERTILIZER at a rate 450 lbs./acre (or 10 lbs./1,000sq ft
- Apply PULVERIZED AGRICULTURAL LIMESTONE at a rate of 2 tons/acre (or 90 lbs./1,000 sq ft)

NOTE:

- A soil test is necessary to determine the actual amount of lime required to adjust the soil pH of site.
- Incorporate the lime and fertilizer into the top 4–6 inches of the soil by disking or by other means.
- When applying Slowly Available Nitrogen, use rates available in Erosion & sediment Control Technical Bulletin #4, 2003 Nutrient Management for Development Sites at <http://www.dcr.state.va.us/sw/e&ss.htm#nubas>

TABLE 3.32-E
(Revised June 2003)
PERMANENT SEEDING SPECIFICATIONS FOR PIEDMONT AREA

LAND USE	SEED SPECIES	APPLICATION PER ACRE
Minimum Care Lawn (Commercial or Residential)	Tall Fescue Perennial Ryegrass Kentucky Bluegrass	95–100% 0–5% 0–5% TOTAL: 175–200 lbs
High-Maintenance Lawn	Tall Fescue	TOTAL: 200–250 lbs
General Slope (3:1 or less)	Tall Fescue Red Top Grass or Creeping Red Fescue Seasonal Nurse Crop	128 lbs 2 lbs 20 lbs Total: 150 lbs
LOW-Maintenance Slope (Steeper than 3:1)	Tall Fescue Red Top Grass or Creeping Red Fescue Seasonal Nurse Crop Crownvetch	108 lbs 2 lbs 20 lbs 20 lbs Total: 150 lbs

- When selecting varieties of turfgrass, use the Virginia Crop Improvement Association (VCA) recommended turfgrass variety list. Quality seed will bear a label indicating that they are approved by VCA. A current turfgrass variety list is available at the local County Extension office or through VCA at 804-746-4884 or at <http://saudon.cses.wt.edu/hmt/Lturf/Lturfpublicatons2.html>
- Use seasonal nurs crop in accordance with seeding dates as stated below:

February 16th – April..... Annual Rye
May 1st – August 15th..... Foxtail Millet
August 16th – October..... Annual Rye
November – February 15th..... Winter Rye
- Substitute Sericea Lespedeza for Crownvetch east of Farmville, VA. (May through September use hulled seed, all other periods, use unhulled Sericea). If Fodpao is used, increase to 30 lbs/acre. If weeping lovegrass is used, including in any slope or low maintenance mixture during warmer seeding periods, increase to 30–40 lbs/acre.

FERTILIZER & LIME

- Apply 10–20–10 fertilizer at a rate of 500 lbs./acre (or 12 lbs./1,000 sq. ft.)
 - Apply Pulverized Agricultural Limestone to a rate of 2 tons/acre (or 90 lbs./1,000 sq. ft.)
- NOTE:
- A soil test is necessary to determine the actual amount of lime required to adjust the soil pH of the site.
 - Incorporate the lime and fertilizer into the top 4–6 inches of the soil by disking or by other means.
 - When applying Slowly Available Nitrogen, use rates available in Erosion & Sediment Control Technical Bulletin #4, 2003 Nutrient Management for Development Sites at <http://www.dcr.state.va.us/sw/e&ss.htm#nubas>

EROSION AND SEDIMENT CONTROL CONSTRUCTION SEQUENCE

PRE-CONSTRUCTION PHASE:

- CONDUCT A PRE-CONSTRUCTION MEETING BEFORE LAND-DISTURBING ACTIVITIES ARE INITIATED.
- FIELD SURVEY THE LIMITS OF DISTURBANCE.
- CLEARLY DESIGNATE AND PROTECT AREAS OUTSIDE OF THE LIMITS OF DISTURBANCE AS BUFFER ZONES.
- INSTALL INITIAL EROSION AND SEDIMENT CONTROL MEASURES (SILT FENCE).

NOTES:

- THE PRE-CONSTRUCTION MEETING SHOULD DISCUSS THE ESC MEASURES, METHODS OF INSTALLATION, SEQUENCE OF OPERATION, MAINTENANCE, AND INSPECTIONS WITH THE ESC INSPECTOR.
- IF CONSTRUCTION DOES NOT COMMENCE FOR 180 DAYS FOLLOWING THE PRE-CONSTRUCTION MEETING, OR IF THE PROJECT IS DORMANT FOR 180 DAYS DURING THE CONSTRUCTION PHASE, A NEW PRE-CONSTRUCTION MEETING IS REQUIRED PRIOR TO RESTARTING CONSTRUCTION.

- LAND DISTURBING ACTIVITIES INCLUDE ALL MAN-MADE CHANGE TO THE LAND SURFACE THAT POTENTIALLY CHANGES ITS RUNOFF CHARACTERISTICS INCLUDING CLEARING, GRADING OR EXCAVATION.
- ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED IN ACCORDANCE WITH THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK, THIRD EDITION (1992).

CONSTRUCTION PHASE:

- PERFORM SITE CLEARING TO THE LIMITS SHOWN ON THE PLANS.
- ROUGH GRADE THE SITE.
- INSTALL PERMANENT SEED, MULCH AND FERTILIZER OVER OTHER AREAS NOT RECEIVING GRAVEL.
- COMPLETE FINAL GRADING.
- INSTALL BELOW-GROUND UTILITIES.
- PLACE GRAVEL OVER DRIVEWAY AND IN THE COMPOUND AREA.
- ENSURE THAT ALL DISTURBED BARE-SOIL AREAS ARE STABILIZED WITH EITHER GRAVEL OR SEEDING TO ESTABLISH VEGETATION.
- INSTALL WOOD FENCING.
- INSTALL WIRELESS COMPONENTS, STRUCTURAL, MONOPOLE (BY OTHERS), GROUND EQUIPMENT, ELECTRICAL ETC.

NOTES:

- FOLLOWING APPROVAL OF THE ESC MEASURES BY THE ESC INSPECTOR, CLEAR ONLY THE LIMITS OF DISTURBANCE. NO ONSITE DISPOSAL OF TREES, BRUSH OR OTHER DEBRIS IS PERMITTED.
- IMMEDIATELY AFTER FINAL GRADE IS ESTABLISHED, INSTALL SEED, MULCH, AND FERTILIZER TO ESTABLISH PERMANENT VEGETATION.

ONGOING ACTIVITIES:

- PERFORM ESC INSPECTION ACTIVITIES BY QUALIFIED PROFESSIONAL AS REQUIRED.
- PERFORM MAINTENANCE OF ESC'S INCLUDING: SILT FENCE, TREE PROTECTION & SEEDED AREAS AS REQUIRED.
- MITIGATE AREAS OF CONCENTRATED RUNOFF THAT COULD POTENTIALLY CAUSE EROSION, IF ENCOUNTERED.
- INSTALL ADDITIONAL ESC MEASURES, IF NECESSARY TO PREVENT DISCHARGE OF SEDIMENT TO OFFSITE AREAS.
- DISPOSE EXCAVATED MATERIAL OFFSITE.

NOTES:

- INSTALL SILT FENCE AT 10' LATERALLY FROM THE TOE OF SLOPE AROUND ALL STOCKPILES.
- DISPOSAL OF EXCAVATED MATERIAL OUTSIDE OF THE LIMITS OF DISTURBANCE IS NOT PERMITTED.
- SITE RESTORATION ACTIVITIES:

- COMPLETE FINAL SITE RESTORATION WORK AND VERIFY THAT FINAL STABILIZATION (PERMANENT VEGETATION OR GRAVEL) IS ACHIEVED OVER PREVIOUSLY-DISTURBED AREAS.

MAINTENANCE INSTRUCTIONS

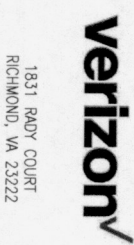
- ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSPECTED WEEKLY AND AFTER EACH SIGNIFICANT RAINFALL. THE INSPECTOR WILL EVALUATE THAT EACH MEASURE IS CONSTRUCTED AND MAINTAINED ACCORDING TO MINIMUM STANDARDS AND SPECIFICATIONS OF THE MESH HANDBOOK. A SUMMARY OF THE INSPECTION ITEMS INCLUDE THE FOLLOWING:

1. SILT FENCE SHALL BE INSPECTED FOR UNDERMINING OR DETERIORATION OF THE FABRIC. SEDIMENT SHALL BE REMOVED WHEN THE LEVEL OF SEDIMENT DEPOSITION REACHES HALFWAY TO THE TOP OF THE BARRIER TO REDUCE PRESSURE ON THE FENCE AND ALLOW ENOUGH SPACE FOR ACCUMULATION FROM FUTURE RAINFALLS.

2. REAPPLY SEED, MULCH AND FERTILIZER IN AREAS WHERE TEMPORARY SEEDING SEEDLING EMERGENCE IS POOR OR WHERE EROSION OCCURS, AS SOON AS POSSIBLE. DO NOT MOW THE AREAS WHERE TEMPORARY SEEDING IS PRESENT, AND PROTECT FROM TRAFFIC AS MUCH AS POSSIBLE.

3. PERMANENT SEEDING SHALL BE INSPECTED FOR FAILURE AND REPAIRS SHALL BE MADE WITHIN THE SAME PLANTING SEASON, IF POSSIBLE. RE-EVALUATE PLANTING MATERIALS, QUANTITIES OF LIME, AND FERTILIZER IF INADEQUATE COVERAGE IS PRODUCED.

CLARK N E X S E N
1111 E. Main Street,
Suite 1905
Richmond, VA 23219
804.644.4690



SITE INFO:
FRY'S SPRING
RAWLAND

100 WEGMANS WAY
CHARLOTTEVILLE, VA
22902

ALBEMARLE COUNTY

DESIGN: JYY
DRAWN: WMD
REVIEW: JYY
TTY DATE: 02/14/17
COMM NO: 5833-572

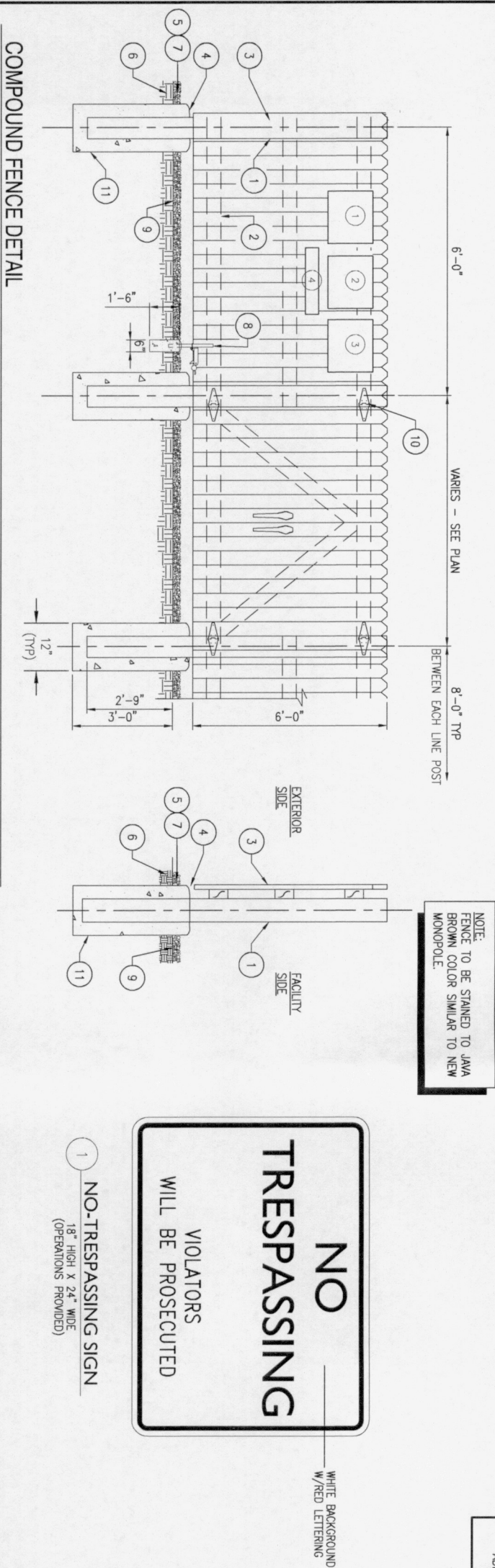
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SYM	DESCRIPTION
Δ	PRELIMINARY SITE PLAN
Δ	PRELIMINARY CONSTRUCTION DIMENSIONS
Δ	FINAL CONSTRUCTION DIMENSIONS
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GRADING
DETAILS AND
NOTES

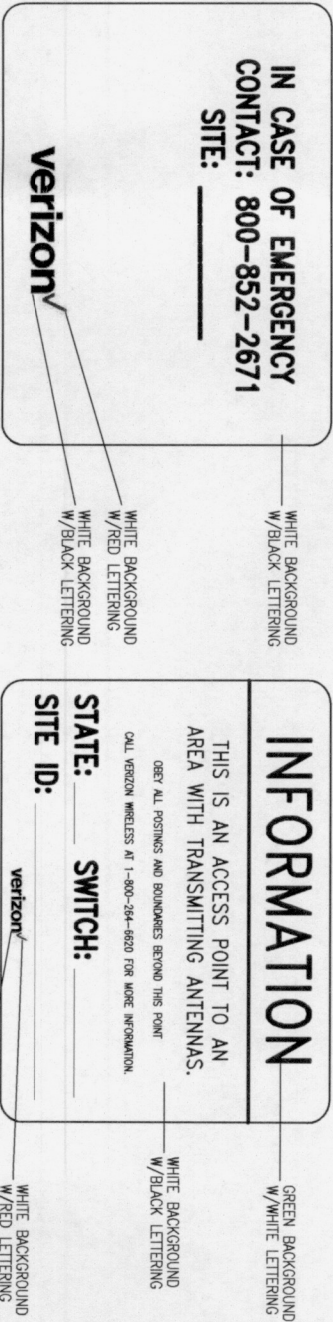
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#	CONSTRUCTION NOTES	GENERAL NOTES
1.	GATE, CORNER, END OR PULL POST 6" x 6" TREATED LUMBER SPACING FOR LINE POSTS IS 8'-0" @ TO @ MAX	1. INSTALL FENCING PER ASTM F--567
2.	TOP RAIL & BRACE RAIL: 2" x 4" TREATED LUMBER	2. INSTALL SWING GATES PER ASTM F--900
3.	1" (NOMINAL) x 6" -8' DOG EARED FENCE BOARDS, CEDAR PREFERRED, #1 TREATED ACCEPTABLE	3. LOCAL ORDINANCE OF BARBED WIRE PERMIT REQUIREMENT SHALL BE COMPLIED IF REQUIRED.
4.	1 1/2" MAXIMUM CLEARANCE FROM GRADE	4. USE GALVANIZED (OR BETTER) NUTS, BOLTS AND WASHERS TO MOUNT ALL SIGNS (SECURED THROUGH FENCE BOARDS).
5.	2" FINISH OR AS DETERMINED BY CONSTRUCTION MANAGER DURING BID WALK	
6.	4" COMPACT 95% BASE MATERIAL OR AS DETERMINED BY CONSTRUCTION MANAGER DURING BID WALK	

1.	SIGNS SHALL BE FABRICATED FROM CORROSION RESISTANT PRESSED METAL AND PAINTED WITH LONG LASTING UV RESISTANT COATINGS.
2.	SIGNS (EXCEPT WHERE NOTED OTHERWISE) SHALL BE MOUNTED TO THE TOWER, GATE, AND FENCE USING A MINIMUM OF 9 GAUGE ALUMINUM WIRE, HOG RINGS (AS UTILIZED IN FENCE INSTALLATIONS) OR BRACKETS WHERE NECESSARY. BRACKETS SHALL BE OF SIMILAR METAL AS THE STRUCTURE TO AVOID GALVANIC CORROSION.
3.	VERIZON WIRELESS SITE ID SIGN SHALL BE MOUNTED ON OUTDOOR EQUIPMENT AS DIRECTED BY VERIZON WIRELESS CONSTRUCTION MANGER. TWO-SIDED TAPE SHALL BE UTILIZED AT EACH CORNER ON THE BACKSIDE TO AID PLACEMENT UNIT ADHESIVE SETS.

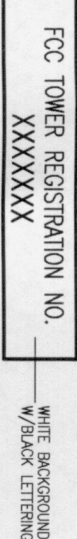


COMPOUND FENCE DETAIL
NO SCALE



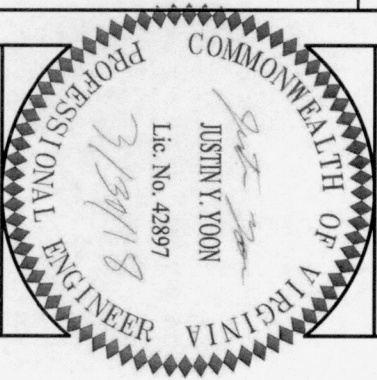
2 VERIZON WIRELESS-SITE ID SIGN
18" HIGH X 24" WIDE
(OPERATIONS PROVIDED)

3 INFORMATION SIGN
18" HIGH X 24" WIDE
(OPERATIONS PROVIDED)



4 FCC REGISTRATION SIGN

TYPICAL SIGNS AND SPECIFICATIONS
NO SCALE



SITE INFO:

FRY'S SPRING
RAWLAND

100 WEGMANS WAY
CHARLOTTEVILLE, VA
22902

ALBEMARLE COUNTY

DESIGN: JYY
DRAWN: WMD
REVIEW: JYY
TTV/DATE: 02/14/17
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SUBMITTALS

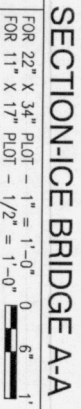
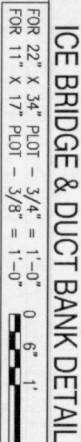
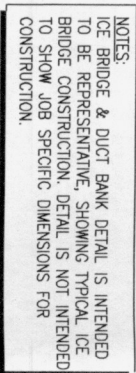
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Δ	PRELIMINARY CONSTRUCTION DIMENSIONS	07/27/17
Δ	FINAL CONSTRUCTION DIMENSIONS	03/29/18
Δ		
Δ		
Δ		

SHEET NAME:

FENCE AND
SINGAGE
DETAILS

SHEET NO.:

C-5



ICE BRIDGE DETAILS

100 WEGMANS WAY
CHARLOTTEVILLE, VA
22902

ALBEMARLE COUNTY

DESIGN: μ

DRAWN:	WM
REVIEW:	WM

TV DATE: 02/14/17

COMM. NO. 5833-572

SUBMITALS

PRELIMINARY SITE PLAN

PRELIMINARY CONSTRUCTION DRAWINGS	07/27
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FINAL CONSTRUCTION DRAWINGS	03/30
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ICE BRIDGE

DETAILS

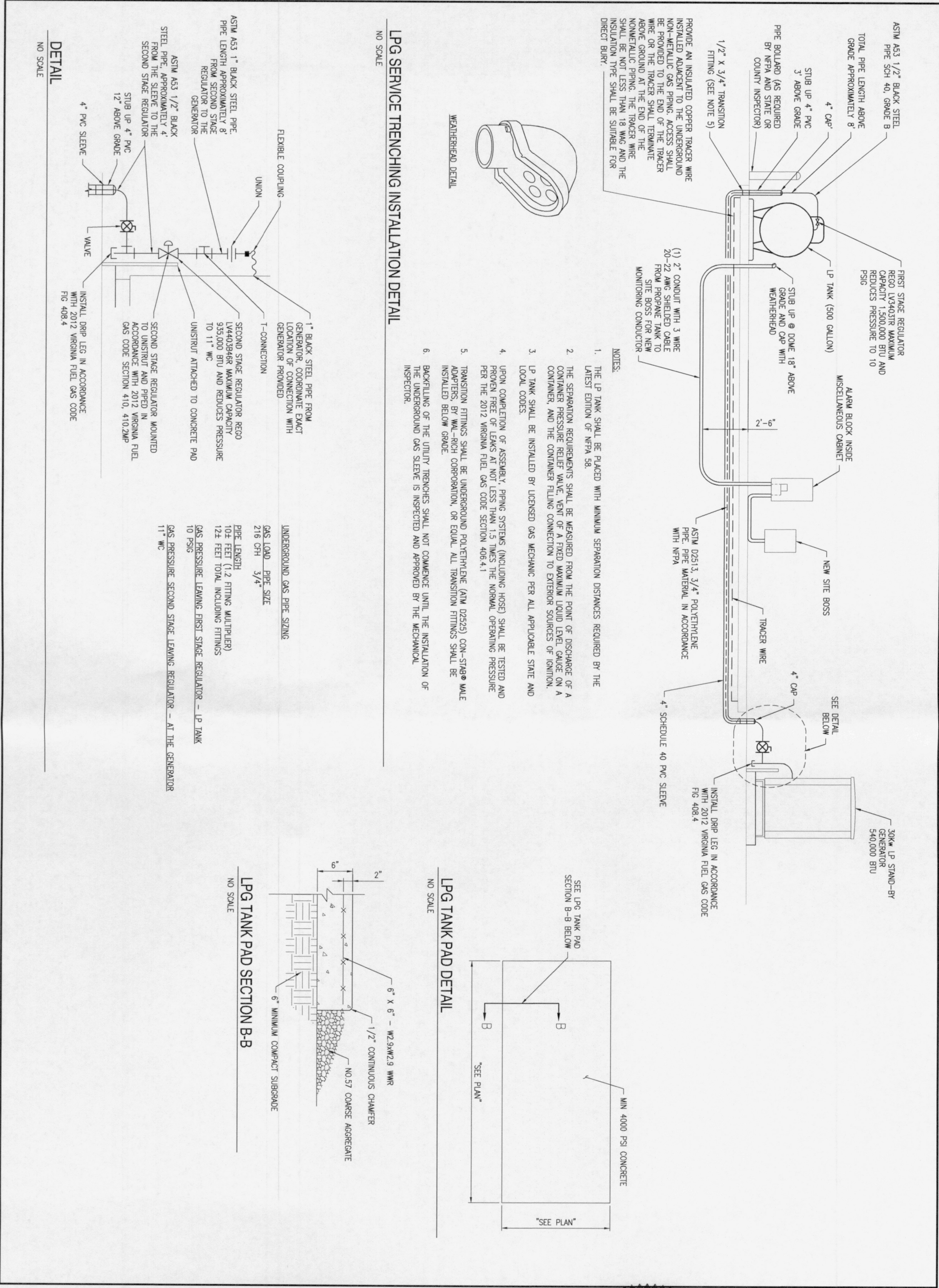
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SHEET NO.:

2

5.

3



CLARK NEXSEN

1111 E. Main Street,
Suite 1805
Richmond, VA 23219
804.644.4690

verizon

1831 RADY COURT
RICHMOND, VA 23222

COMMONWEALTH OF VIRGINIA

PROFESSIONAL ENGINEER

JUSTIN Y. YOON
Lic. No. 42897
3/30/18

SITE INFO:

FRYS SPRING
RAWLAND

100 WEGMANS WAY
CHARLOTTEVILLE, VA
22902

ALBEMARLE COUNTY

DESIGN: JYY
DRAWN: WMD
REVIEW: JYY
TIV DATE: 02/14/17
CONTR. NO. 5833-572

SUBMITTALS

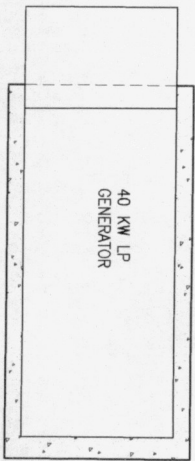
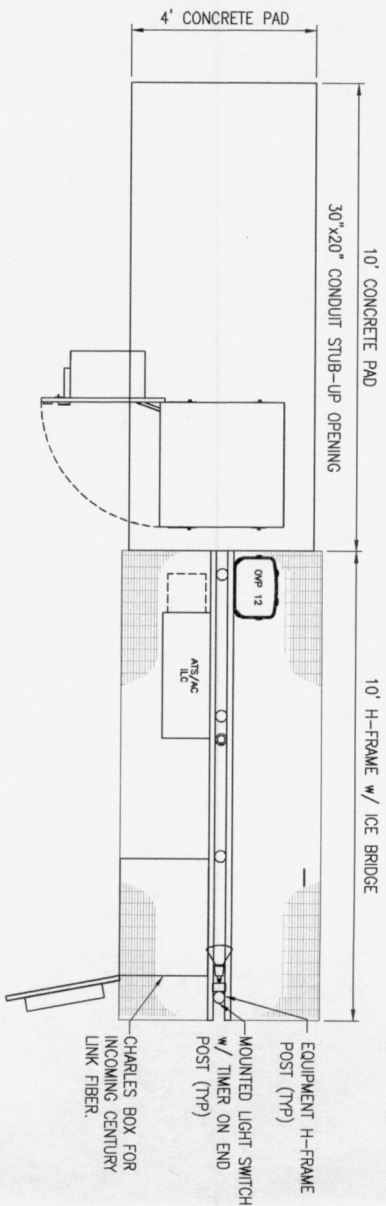
SYM.	DESCRIPTION	DATE
△	PRELIMINARY SITE PLAN	06/02/17
△	PRELIMINARY CONSTRUCTION DRAWINGS	07/27/17
△	FINAL CONSTRUCTION DRAWINGS	03/30/18

SHEET NAME:

LP PIPING
DIAGRAM

SHEET NO.:

C-7



- VERIZON WIRELESS EQUIPMENT:
- CHARLES INDUSTRIES CUBE - SS4B231PX2 EQUIPMENT WITH BATTERY CABINET
 - RAYCAP OVP - 12 (RCMDC-6627-PF-48)

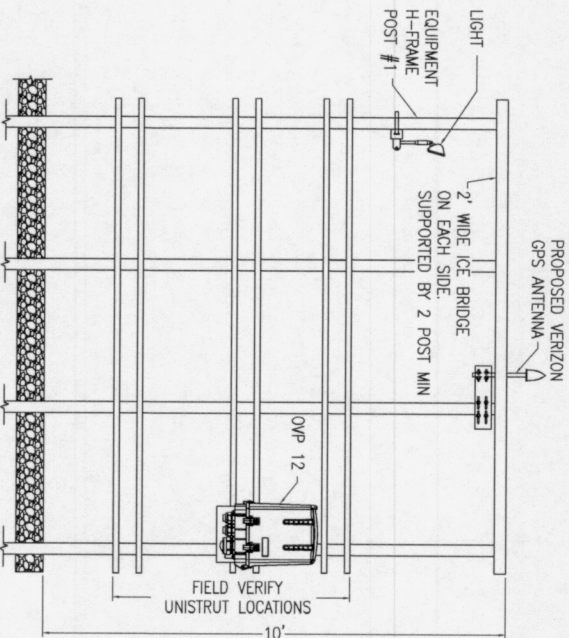
CONTRACTOR PROVIDED EQUIPMENT:

* THIS IS NOT A COMPREHENSIVE LIST. IT SHOULD BE ASSUMED BY THE CONTRACTOR THAT ALL OTHER ITEMS DETAILED IN THIS SET OF DRAWINGS SHALL BE PROVIDED BY THE CONTRACTOR.

- 18"x18" FIBER JUNCTION BOX, NEMA 3R, CABINET ENCLOSURE WITH WOODEN BACKBOARD, PADLOCK LATCH, AND COMBINATION LOCK. (USE FOR DARK FIBER SITES)
- 32" WIDE X 59" TALL X 12" DEEP, ASCO D300L SERIES POWER TRANSFER LOAD CENTER MODEL AA300G-1PH-N-3R - INTEGRATED LOAD CENTER "ILC" WITH COMBINATION PADLOCK.
- 22" WIDE X 26" TALL X 20" DEEP, CHARLES INDUSTRIES CUBE-RL1003C-A WITH HEAT EXCHANGER (120V) WITH TRIPP-LITE UPS PART #SM1500RMXL2UT4A INSIDE (ONLY REQUIRED WHEN VZI PROVIDES UT FIBER. UTILITY COORDINATOR MUST VERIFY IF THIS IS NEEDED)
- COORDINATE ADDITIONAL ENTRY GATE LOCK(S) WITH CONSTRUCTION MANAGER.

EQUIPMENT LAYOUT PLAN

SCALE: N.T.S.



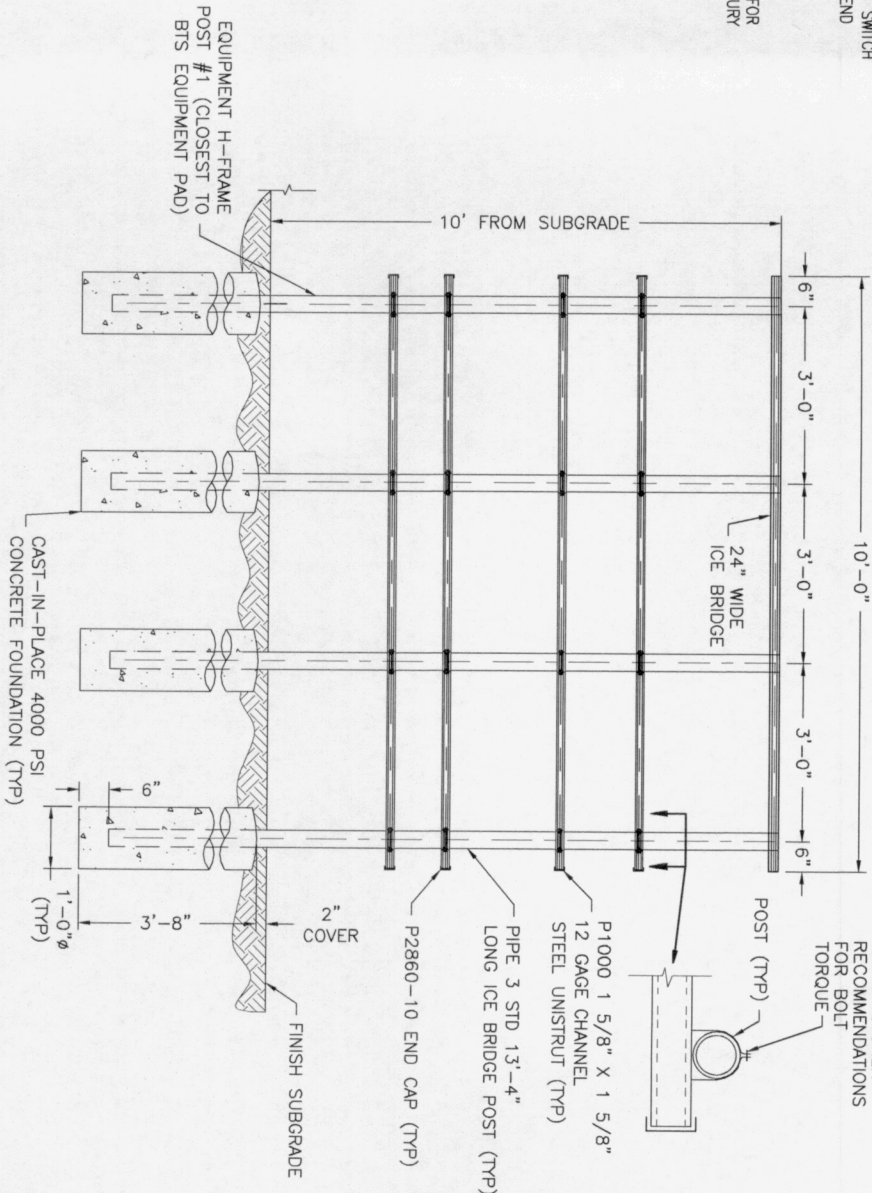
NOTE:
USE OF OUTDOOR LIGHTING SHALL ONLY BE PERMITTED DURING MAINTENANCE PERIODS

SIDE A

- NOTE:
1. SEE CONDUIT CONNECTIONS FOR CABLE/CONDUIT ROUTINGS.

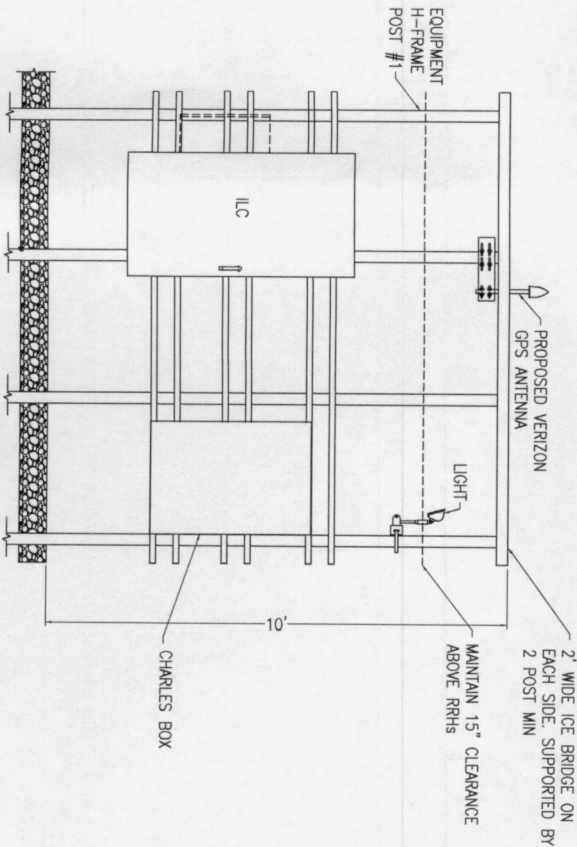
H-FRAME RISER DETAILS

SCALE: N.T.S.



H-FRAME DETAIL

SCALE: N.T.S.



SIDE B

- NOTE:
1. SEE CONDUIT CONNECTIONS FOR CABLE/CONDUIT ROUTINGS.

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SITE INFO:
FRY'S SPRING
RAWLAND

100 WEGMANS WAY
CHARLOTTEVILLE, VA
22902

ALBEMARLE COUNTY

DESIGN: JY
DRAWN: MBL
REVIEW: JY
TTY DATE: 02/14/17
COMPL NO. 5833-572
SUBMITTALS

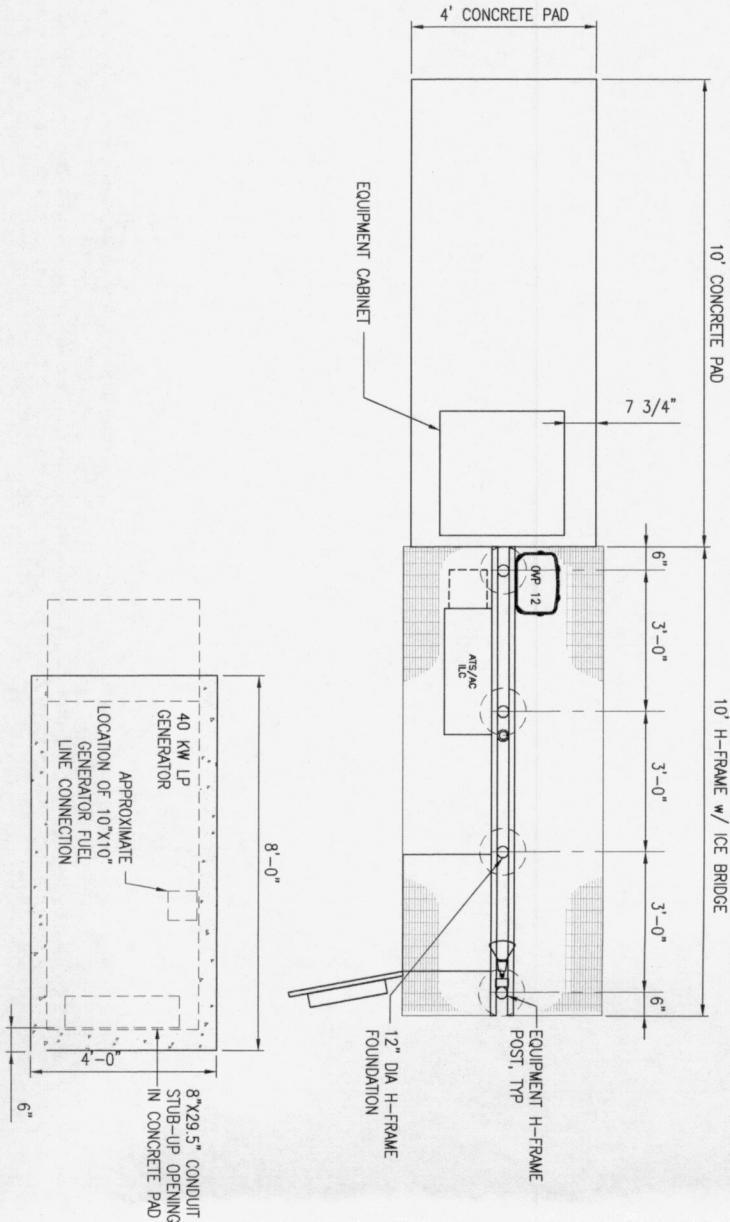
SYM	DESCRIPTION	DATE
Δ	PRELIMINARY SITE PLAN	06/02/17
Δ	PRELIMINARY CONSTRUCTION DRAWINGS	07/27/17
Δ	FINAL CONSTRUCTION DRAWINGS	03/30/18
Δ		
Δ		
Δ		
Δ		

SHEET NAME:

EQUIPMENT
LAYOUT AND
NOTES

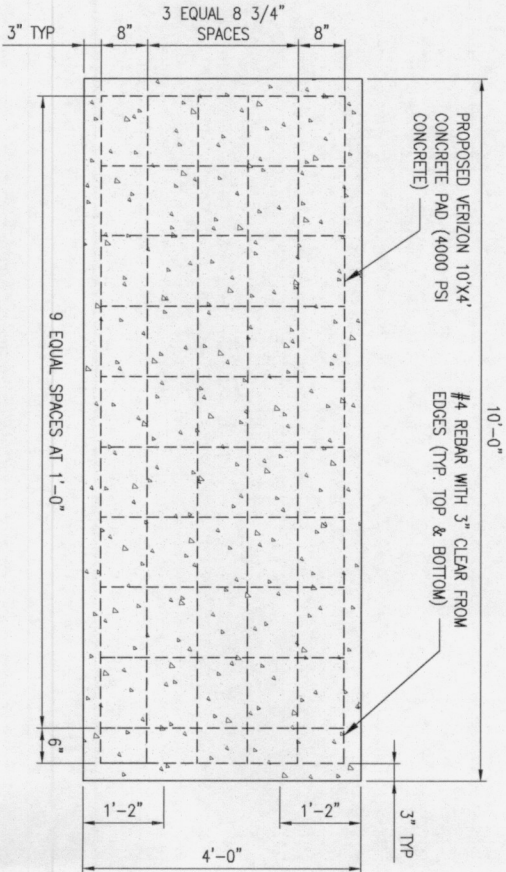
SHEET NO.:

C-8



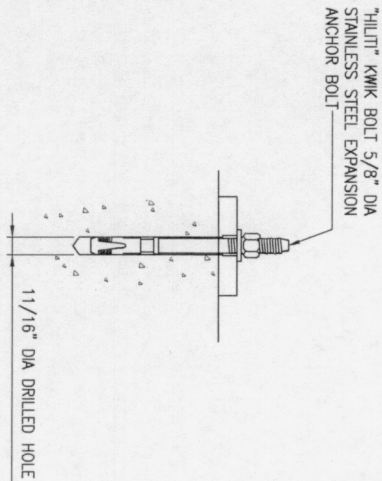
EQUIPMENT PLAN

SCALE: N.T.S.



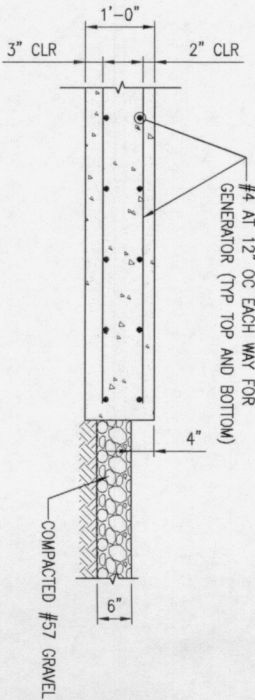
EQUIPMENT PAD DESIGN

SCALE: N.T.S.



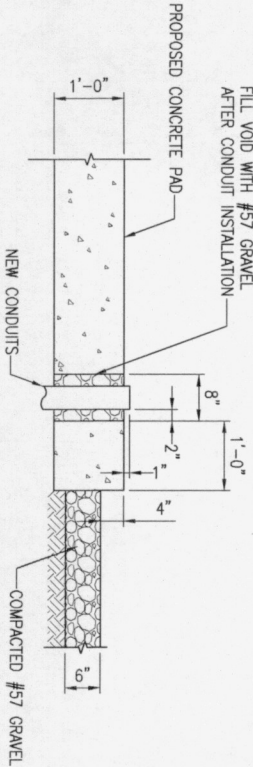
EXPANSION ANCHOR DETAIL

SCALE: N.T.S.



EQUIPMENT PAD FOUNDATION

SCALE: N.T.S.



GENERATOR CONDUIT ROUTING DETAIL

SCALE: N.T.S.

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Δ		
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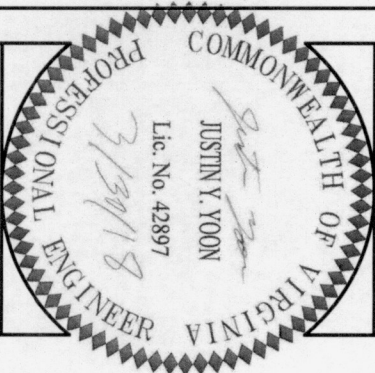
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CONCRETE PAD
DETAILS

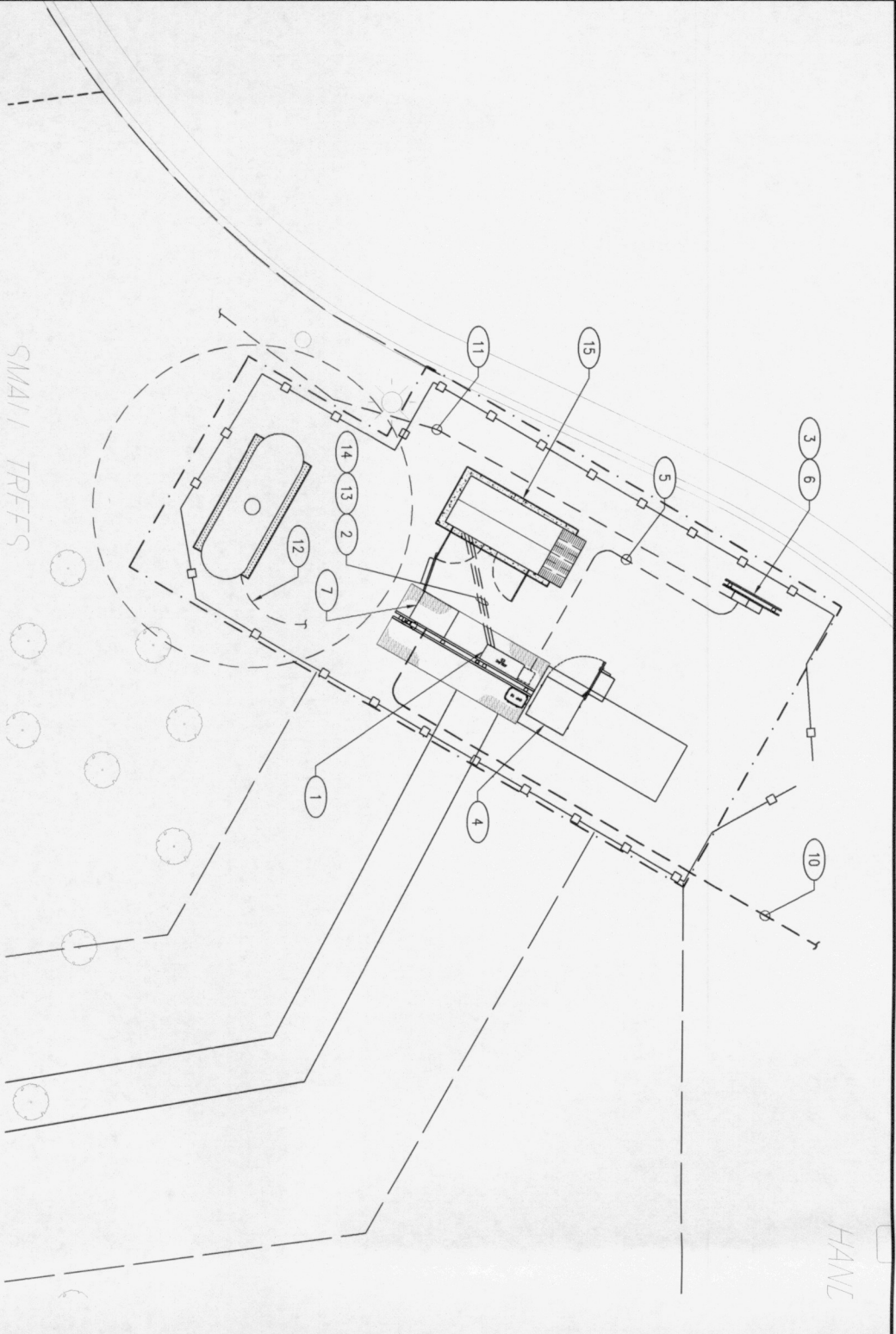
SHEET NO.:

C-9

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SITE PLAN

FOR 22" X 34" PLOT - 1" = 5'
FOR 11" X 17" PLOT - 1" = 10'



ELECTRICAL NOTES

- 200A NEMA 3R PULC ENCLOSURE CONTAINING 120/240V, 1Ø-3WIRE, PANELBOARD PP-1, 200A ATS AND SURGE PROTECTION DEVICE.
- 1" PVC (SCH 40) FROM VERIZON WIRELESS ATS TO GENERATOR FOR CONTROL AND ALARMS CIRCUITS. RUN MIN 30" BELOW FINISHED GRADE.
- 400A RATED, 120/240V, 2 GANG METER SOCKET/CIRCUIT BREAKER, AS MANUFACTURED BY SQUARE D. PROVIDE WITH INTEGRAL PULBOX AND MIN 200A CIRCUIT BREAKER FRAMES. MOUNT TO H-FRAME STRUCTURE.
- VERIZON WIRELESS EQUIPMENT CABINET.
- 3Ø/0, 1Ø6 GND, 2" C FOR VERIZON ELECTRICAL SERVICE IN CONDUIT.
- VERIZON 200A/2P SERVICE DISCONNECT CIRCUIT BREAKER AND UTILITY METER. COORDINATE METER INSTALLATION WITH LOCAL UTILITY. COORDINATE SCA AT INSTALLATION LOCATION WITH POWER COMPANY. PROVIDE EQUIPMENT/DEVICE AIC RATINGS GREATER THAN SCA.
- CENTURY LINK CHARLES BOX, MOUNTED ON H-FRAME.
- (2) 2" PVC CONDUIT, WITH 3-WAY INNERDUCT WITH PULL STRINGS IN EACH INNERDUCT FOR TELEPHONE SERVICE TO VZW EQUIPMENT. RUN MIN 30" BELOW FINISHED GRADE.
- 3Ø4 AND 1Ø6 IN 1-1/2" CONDUIT. PROVIDE 60A-2P CIRCUIT BREAKER IN PP-1.
- (2) 2" PVC CONDUIT FOR TELCO SERVICE FEEDER. RUN MIN 30" BELOW FINISHED GRADE. STUB UP MIN 12" ABOVE FINISH GRADE OUTSIDE OF FENCE. COORDINATE FINAL TERMINATIONS WITH TELCO PRIOR TO INSTALLATION.
- (2) 4" PVC CONDUIT FOR LOCAL UTILITY CONNECTION. INSTALL 36" BELOW GRADE. CAP FOR FUTURE USE. COORDINATE FINAL TERMINATION LOCATION WITH LOCAL UTILITY PRIOR TO INSTALLATION.
- PROPANE TANK ALARM CIRCUITS. SEE CIVIL DETAIL, "LP SERVICE TRENCHING INSTALLATION DETAIL."
- 3Ø3/0, 1Ø6 GND IN 2" C FOR STANDBY POWER GENERATOR SERVICE.
- (2) 2Ø10, 1Ø10 GND BRANCH CIRCUITS IN 1" PVC CONDUIT FOR GENERATOR CHARGER AND JACKET HEATER. PROVIDE CONNECTION TO SPARE 200A/1P CB IN PANEL PP-1 FOR EACH BRANCH CIRCUIT.
- GENERATOR PROVIDED BY VERIZON WIRELESS. COORDINATE FINAL ELECTRICAL CONNECTIONS WITH VERIZON WIRELESS. SEE PAD DETAIL ON CIVIL PLANS FOR STUB UP LOCATIONS.

ABBREVIATIONS

- | | |
|------|---|
| A | AMPERE |
| AIC | AVAILABLE INTERRUPTING CURRENT |
| ATS | AUTOMATIC TRANSFER SWITCH |
| C | CONDUIT |
| GRS | GALVANIZED RIGID STEEL |
| GND | GROUND |
| KWH | KILO WATT HOUR |
| Ø | PHASE |
| P | POLE |
| PVC | POLYVINYL CHLORIDE |
| SCA | AVAILABLE SHORT CIRCUIT CURRENT |
| TBOW | TINNED BARE COPPER WIRE |
| THHN | THERMOPLASTIC HIGH HEAT-RESISTANT NYLON-COATED THHN |
| TYP | TYPICAL |
| UN | UNLESS OTHERWISE NOTED |
| W | WIRE |

LEGEND

- | | |
|---|-----------------------|
| ● | GROUND ROD |
| ⊙ | INSPECTION PORT |
| ■ | CADWELDED CONNECTION |
| ⊗ | UTILITY METER |
| ① | NOTE REFERENCE NUMBER |
| ⊙ | GENERATOR |
| □ | DISCONNECT SWITCH |

GENERAL NOTES

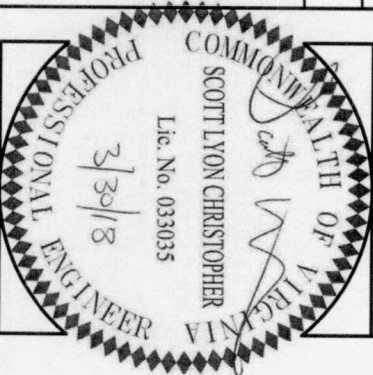
- ALL EMPTY CONDUIT SHALL HAVE PULL STRING INSTALLED AND SHALL BE CLEANED OF ALL DEBRIS AND CAPPED (WEATHER TIGHT) AT BOTH ENDS.
- PRIOR TO ANY EXCAVATION, CONTRACTOR SHALL CONTACT "MISS UTILITIES" AT 811 AND HAVE THEM LOCATE ALL UNDERGROUND UTILITIES 72 HOURS BEFORE DIGGING. ALL DAMAGE RESULTING FROM FAILURE TO CONTACT "MISS UTILITIES" WILL BE AT THE CONTRACTOR'S EXPENSE.
- CONTRACTOR SHALL REPAIR TO ITS ORIGINAL CONDITION, ALL EXCAVATIONS CREATED BY THE UTILITY COMPANY AFTER INITIAL TRENCHING HAS BEEN BACKFILLED AND SETTLEMENT OR COMPACTION OCCURS.
- ALL PERSONNEL WORKING ON THE TOWER MUST COMPLY WITH VERIZON WIRELESS RF EMISSIONS GUIDELINE POLICY.
- CONTRACTOR SHALL VERIFY THE EXISTING FIELD CONDITIONS.
- APPROXIMATE CONDUIT RUNS ARE SHOWN. CONTRACTOR SHALL CHANGE THE CONDUIT ROUTE TO MEET REQUIREMENTS.
- CONDUITS UNDER DRIVEWAYS AND PARKING AREAS SHALL BE SLEEVED IN 4" GRS CONDUIT.
- WORK TO BE DONE IN ACCORDANCE WITH THE 2011 NATIONAL ELECTRICAL CODE.
- PROVIDE COPPER XHHW FOR UNDERGROUND CONDUCTORS.
- PROVIDE COPPER THHN/THWN ABOVE GROUND CONDUCTORS.
- INSTALL UNDERGROUND CONDUITS MIN 30" BELOW GRADE IN SCHED 40 PVC CONDUIT UNLESS OTHERWISE NOTED
- COORDINATE AVAILABLE FAULT SHORT CIRCUIT AMPS AT SERVICE ENTRANCE EQUIPMENT LOCATION WITH UTILITY. PROVIDE AIC RATING FOR SERVICE ENTRANCE EQUIPMENT GREATER THAN AVAILABLE FAULT AT INSTALLATION LOCATION.
- PROVIDE COPPERHEAD REINFORCED TRACER WIRE ADJACENT TO TELECOMMUNICATION CONDUITS. DO NOT INSTALL TRACER WIRE IN CONDUIT. TRACER WIRE IS NOT REQUIRED FOR ALARM OR CONTROL CONDUITS. PROVIDE A TRACER WIRE TEST POINT BOX AT EACH END OF THE TRACE WIRE RUN AT THE POINT THE CONDUIT STUBS UP.

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FRY'S SPRING
RAWLAND

100 WEGMANS WAY
CHARLOTTEVILLE, VA
22902

ALBEMARLE COUNTY

DESIGN: JYF
DRAWN: MBL
REVIEW: SLC
TTY DATE: 02/14/17
COMM. NO: 5833-572

SUBMITTALS	
SYM	DESCRIPTION
△	PRELIMINARY SITE PLAN
△	PRELIMINARY CONSTRUCTION DIMENSIONS
△	FINAL CONSTRUCTION DIMENSIONS

DATE	DATE
06/02/17	
07/22/17	
09/30/18	

ELECTRICAL SITE
PLAN

POWER/TELEPHONE RISER DIAGRAM

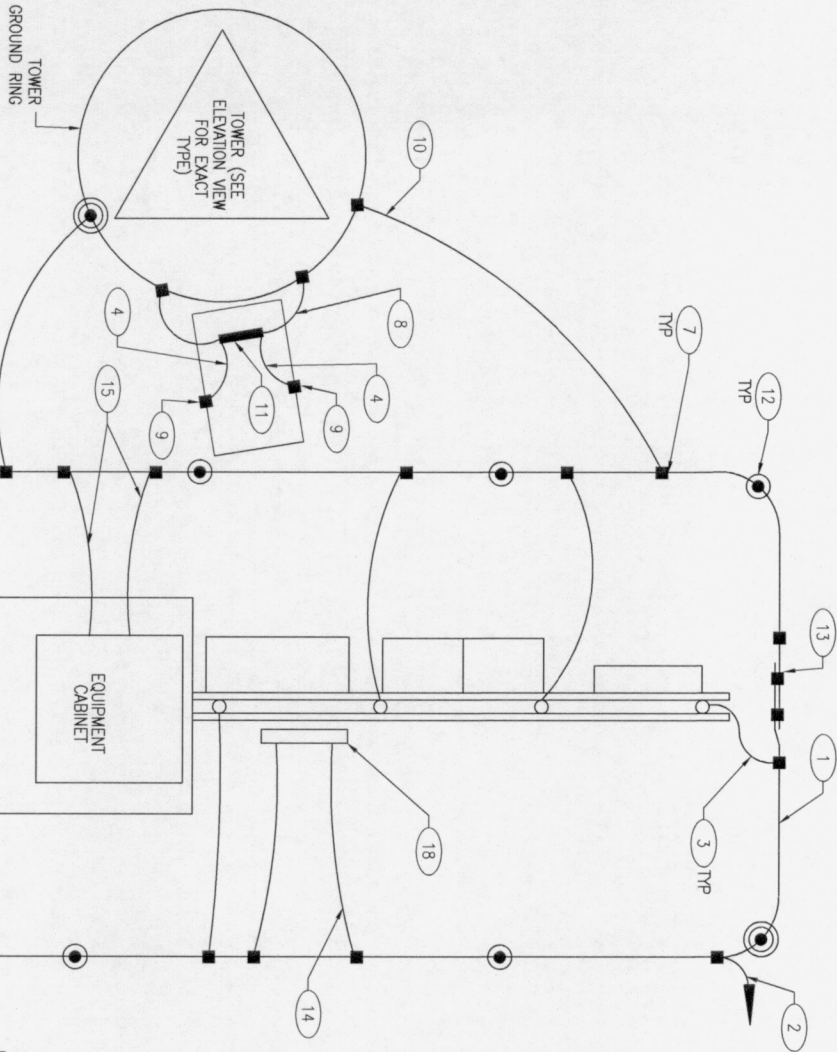
NO SCALE

E-1

NOTES THIS SHEET ONLY
1. BELOW GRADE GROUND RING BONDS AND CONNECTIONS WILL BE EXOTHERMIC WELDS, NO EXCEPTIONS.
2. GROUND CONDUCTORS FROM GROUND RING TO FRAME 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.

1. #2 BARE, TINNED SOLID COPPER GROUND 30" BELOW GRADE (MIN).
2. CONNECT TO PERIMETER GROUND RING.
3. BOND EACH POST OF EQUIPMENT FRAME TO GROUND RING.
4. LEAD FROM ICE BRIDGE TO BOTTOM OF TOWER GROUND BAR.
5. #2 GROUND CONDUCTOR TO GENERATOR GROUND BAR.
6. INSPECTION PORT 6" DIA PVC SCHEDULE 40 WITH COUPLING & CAP (2 REQ'D) OPPOSITE ENDS (TYP OF 2). SEE DETAIL, THIS SHEET.
7. CADWELD CONNECTION (TYP).
8. CADWELD TO TOWER GROUND RING (TYP OF TWO).
9. CADWELD TO EACH ICE BRIDGE POST (TYP).
10. CADWELD TO TOWER GROUND RING (TYP OF TWO).
11. TIN COATED TOWER GROUND BAR FASTENED WITH THEFT PROOF STAINLESS STEEL HARDWARE.
12. GROUND ROD. SEE DETAIL THIS SHEET.
13. UNDERGROUND GROUND RING SPICE, SEE DETAIL THIS SHEET.
14. #2 EQUIPMENT GROUND BAR CONDUCTOR (TYP OF 2).
15. #2 EQUIPMENT CABINET CONDUCTOR (TYP OF 2).
16. #2 BARE, TINNED SOLID COPPER GROUND 30" BELOW GRADE (MIN). BOND GENERATOR GROUND RING TO EQUIPMENT GROUND RING.
17. EQUIPMENT PAD.
18. GROUND BAR.
19. #2 GROUND CONDUCTOR TO PROPANE TANK TO PERIMETER GROUND.

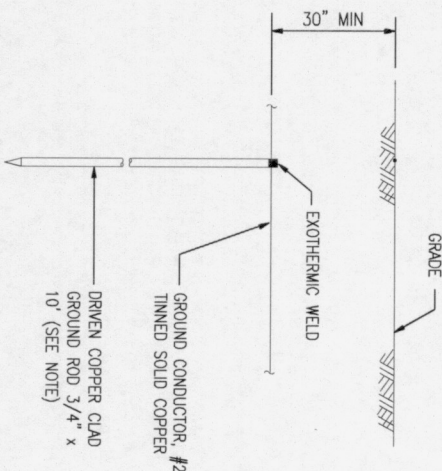
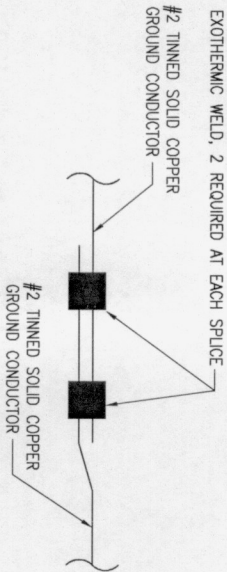
PLATFORM GROUND RING PLAN NOTES



NOTE: BOND METALLIC OBJECTS LOCATED WITHIN 6' OF VERIZON WIRELESS EQUIPMENT.

UNDERGROUND RING SPICE DETAIL

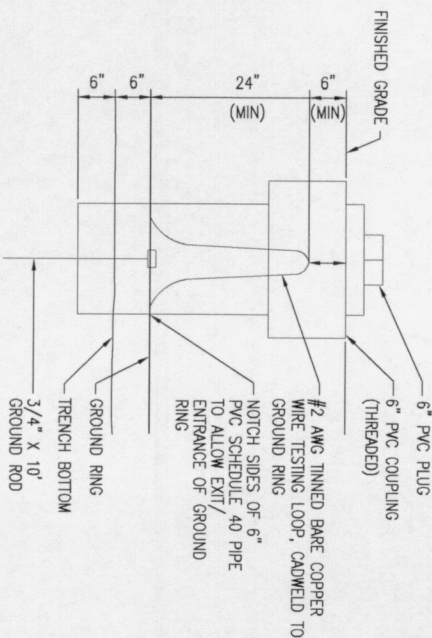
NO SCALE



NOTE: PROVIDE ADDITIONAL GROUND RODS AS REQUIRED TO ACHIEVE MAXIMUM 5 OHMS RESISTANCE.

GROUND ROD DETAIL

NO SCALE



INSPECTION PORT DETAIL

NO SCALE

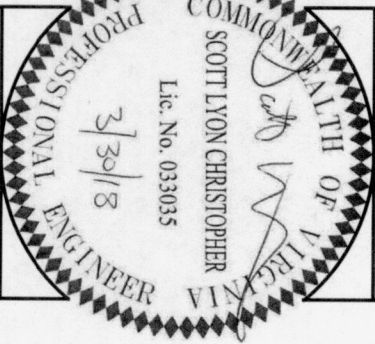
SITE GROUND RING SCHEMATIC

NO SCALE

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SITE INFO:
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RAWLAND

100 WEGMANS WAY
CHARLOTTEVILLE, VA
22902

ALBEMARLE COUNTY

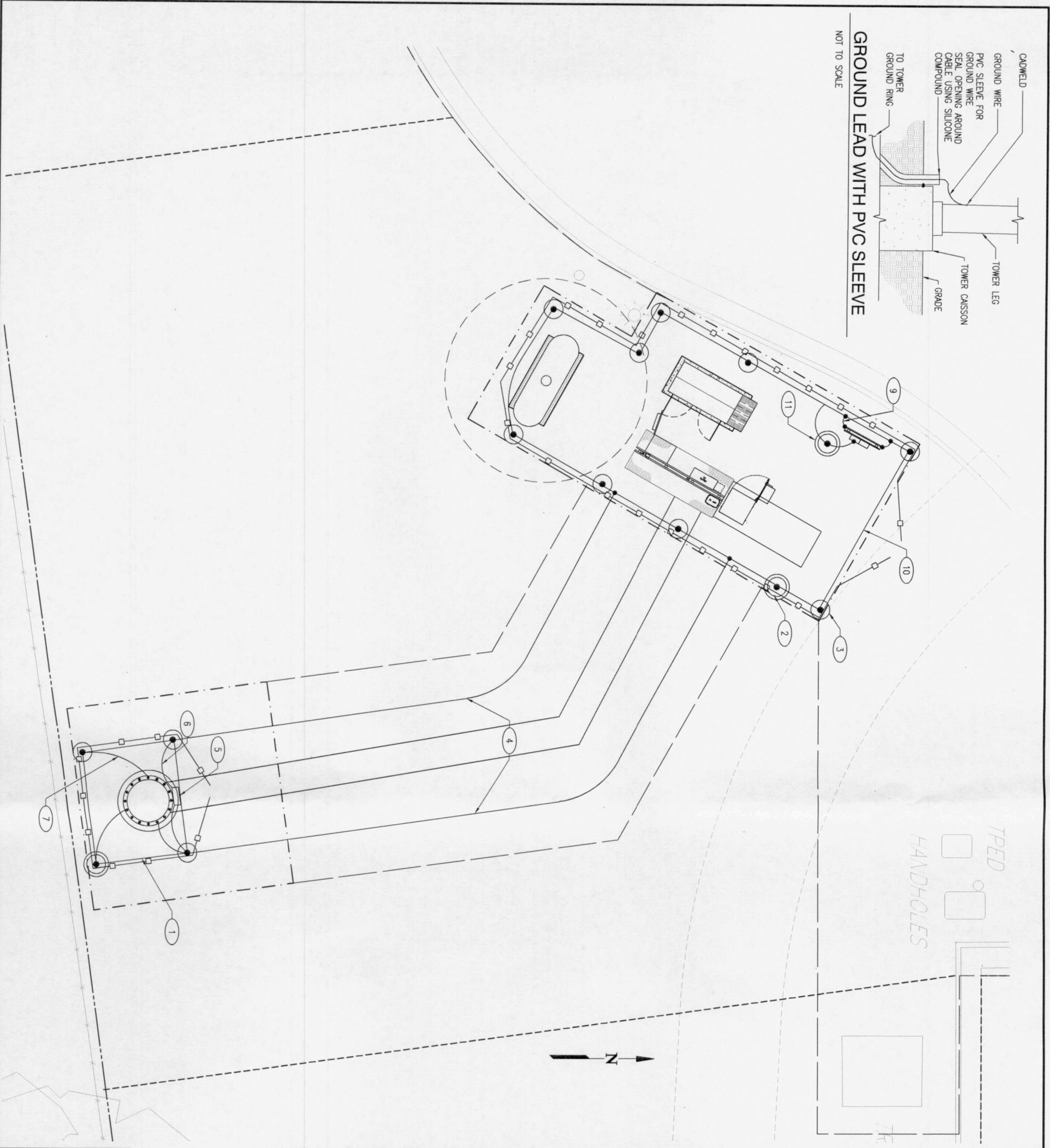
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DRAWN: MBL
REVIEW: SLG
TYP DATE: 02/14/17
CONTR. NO. 5833-572
SUBMITTALS

SYM.	DESCRIPTION	DATE
Δ	PRELIMINARY SITE PLAN	06/02/17
Δ	PRELIMINARY CONSTRUCTION DRAWINGS	07/27/17
Δ	FINAL CONSTRUCTION DRAWINGS	03/30/18
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GROUNDING
PLAN

SHEET NO.

E-2



GENERAL NOTES

- #2 TINNED COPPER GROUND WIRE ABOVE THE GRADE SHALL BE SHEATHED IN 3/4" GRAY PVC CONDUIT, SEAL TOP WITH GRAY 20 YEAR SILICONE CAULK. INSTALL CONDUIT TO CADWELD CONNECTION AT GROUND RING.
- INDICATED DRIVING LOCATIONS ARE FOR SCHEMATIC PURPOSE ONLY. EXACT LOCATION SHOULD BE VERIFIED BY CONTRACTOR.
- GROUND RING TO BE PLACED A MINIMUM DISTANCE OF 2' FROM ANY CONCRETE FOUNDATION.
- FENCE TO BE CONNECTED TO GROUND RING AT CORNERS WITH CADWELD AT FENCE POST AND GROUND ROD.
- TOWER LEG TO BE CONNECTED TO GROUND ROD IN TOWER RING. CADWELD TO TOWER LEG, 3' ABOVE BASE PLATE.
- GATE LEAF TO BE CADWELDED TO GATE POST WITH #2 WELDING CABLE.
- CADWELD A #2 LEAD FROM GATE POST TO GATE POST.
- ALL GROUND LEADS TO GROUND RING CONNECTIONS SHALL BE AT A GROUND ROD.
- PRIOR TO ANY EXCAVATION, CONTRACTOR SHALL CONTACT "THE ONE CALL CENTER" AT 811 72 HOURS BEFORE DIGGING AND HAVE THEM LOCATE ALL UNDERGROUND UTILITIES. ALL DAMAGE RESULTING FROM FAILURE TO CONTACT "MISS UTILITIES" WILL BE AT THE CONTRACTOR'S EXPENSE.

CONSTRUCTION NOTES

- #2 TINNED SOLID COPPER TOWER GROUND RING.
- INSPECTION POINT. SEE DETAIL, SHEET E-2.
- GROUND ROD (TYP). SEE DETAIL, SHEET E-2.
- #2/0 TINNED SOLID COPPER.
- 1/4" x 4" x 12" TOWER BOTTOM TINNED COPPER GROUND BAR, MOUNT AT TOWER CROSSBAR WITH ANTI-THEFT HARDWARE.
- #2 TINNED SOLID COPPER GROUND WIRE FROM GROUND RING TO TOWER GROUND BAR (TYP OF 2).
- #2 TINNED SOLID COPPER GROUND WIRE FROM TOWER GROUND RODS TO TOWER. (TYP OF 3). SEE DETAIL, THIS SHEET.
- NOT USED.
- #2 TINNED SOLID COPPER TO NEW SERVICE STAND (TYP OF EACH POST).
- #2 TINNED SOLID COPPER PERIMETER GROUND RING.
- SERVICE GROUND, SEE POWER/TELCO RISER DIAGRAM ON SHEET E-1.

GRAPHIC SCALE(S)

FOR 22" X 34" PLOT - 1" = 10' 0' 5' 10' 20'
FOR 11" X 17" PLOT - 1" = 20'

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1831 RADY COURT
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SITE INFO:

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22902

ALBEMARLE COUNTY

DESIGN: JYY
DRAWN: MBL
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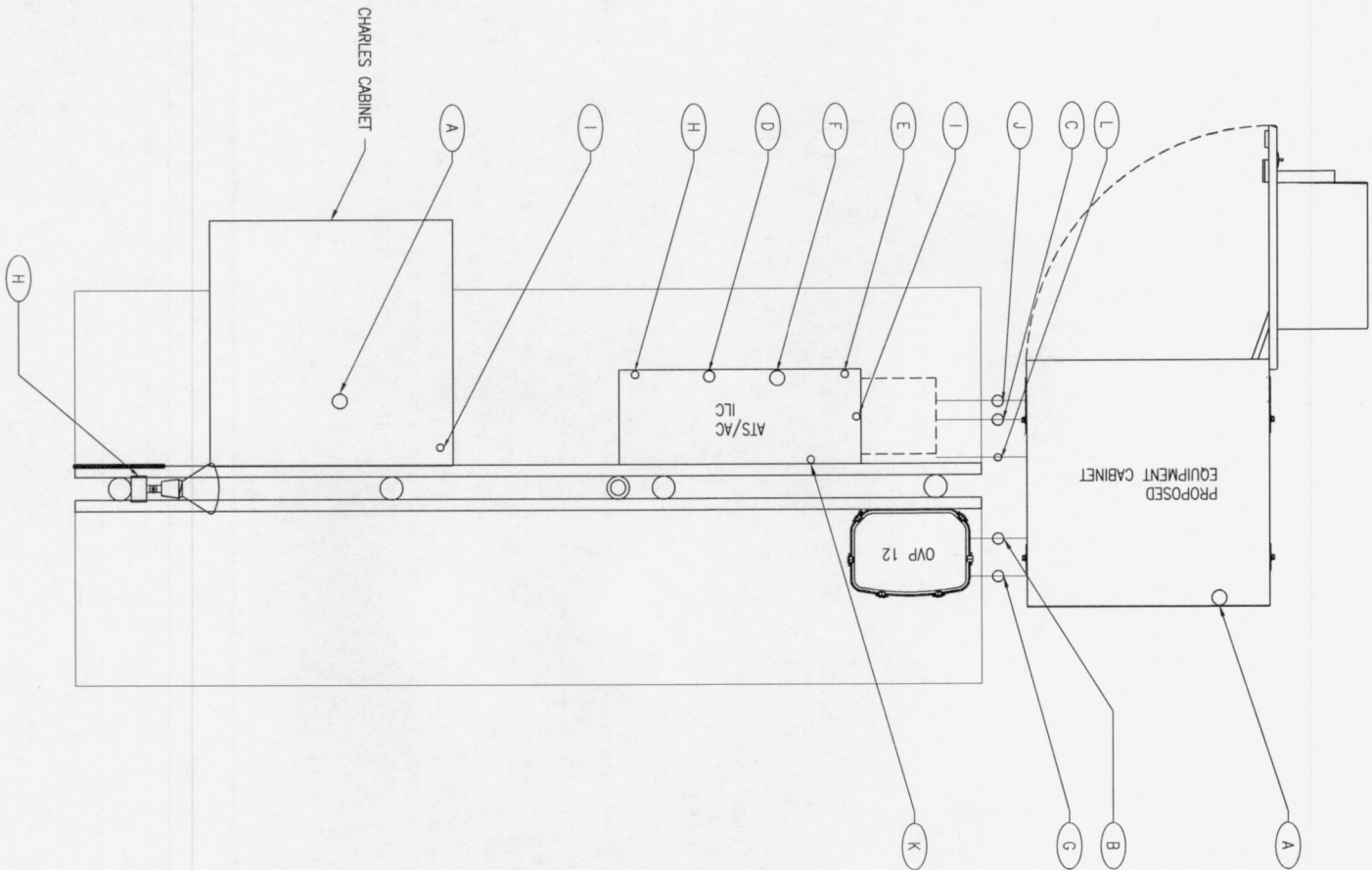
SUBMITTALS

SYM.	DESCRIPTION	DATE
Δ	PRELIMINARY SITE PLAN	06/02/17
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Δ	FINAL CONSTRUCTION DRAWINGS	03/30/18
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Δ		
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SHEET NAME:
GROUNDING SITE
PLAN

SHEET NO.:

E-3



PLATFORM CONDUIT NOTES

FIBER CONDUITS

- A** 2" CONDUIT FROM CHARLES CABINET TO THE EQUIPMENT CABINET.
- B** 1-1/2" CONDUITS FROM EQUIPMENT CABINET TO THE VVP 12.

AC POWER CONDUITS

- C** 1-1/2" CONDUIT FROM THE ILC TO THE EQUIPMENT CABINET.
- D** 1-1/2" CONDUIT FROM GENERATOR TO BOTTOM OF ILC.
- E** 1" CONDUIT FROM THE ILC TO THE GENERATOR HEATER AND CHARGER.
- F** 2" CONDUIT FROM SERVICE DISCONNECT TO BOTTOM OF ILC.
- G** (2) 1-1/2" CONDUIT FROM THE EQUIPMENT CABINET TO THE VVP 12
- H** 1" CONDUIT FROM ILC TO LIGHT SWITCH, LIGHTS AND GFI RECEPTACLE.
- I** 1" CONDUIT FROM ILC TO CHARLES CABINET.
- J** 1-1/2" CONDUIT FROM THE ILC TO THE EQUIPMENT CABINET FOR FUTURE RECTIFIERS.

ALARM/MISCELLANEOUS CONDUITS/CABLES

- K** 1" ALARM CONDUIT FROM ILC TO GENERATOR.
- L** 1" CONDUIT FROM ILC TO EQUIPMENT CABINET.

NOTES:

- ALL EXTERIOR CONDUIT SHALL BE SEALTIGHT (LFMC) OR RIGID GALVANIZED CONDUIT W/WRES HUBS.
- WHEN EQUIPMENT FRAME IS INSTALLED ADJACENT TO CABINET PAD, INTERCONNECTING CONDUITS SHALL BE INSTALLED AT OR ABOVE GRADE.
- BELOW GRADE CONDUIT SHALL BE SCHEDULE 40 PVC. ABOVE GRADE CONDUIT SHALL BE GALVANIZED RIGID CONDUIT. BELOW GRADE PVC CONDUIT SHALL TRANSITION TO GRC PRIOR TO RISING ABOVE GRADE. ALL BENDS SHALL HAVE A MINIMUM 24" RADIUS. ALL FITTINGS SHALL BE SUITABLE FOR USE WITH THREADED RIGID CONDUIT. VERIFY CONDUIT TYPE WITH LOCAL CONSTRUCTION MANAGER AND ADJUST AS NECESSARY. ALL CONDUIT SHALL MEET NEC, STATE, AND LOCAL CODE REQUIREMENTS AS REQUIRED.

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SITE INFO:

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ALBEMARLE COUNTY
DESIGN: JTY
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SUBMITTALS

SYM	DESCRIPTION	DATE
Δ	PRELIMINARY SITE PLAN	06/02/17
Δ	PRELIMINARY CONSTRUCTION DRAWINGS	07/21/17
Δ	FINAL CONSTRUCTION DRAWINGS	03/30/18
Δ		
Δ		
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SHEET NAME:

**CONDUIT
CONNECTION**

SHEET NO.:

E-4