

### SITE OVERVIEW

TYPE OF OCCUPANCY: TELECOMMUNICATIONS  
 SITE TYPE: RAWLAND  
 TOWER TYPE: MONOPALM STEALTH TOWER  
 TOWER HEIGHT: 100-FT +/-  
 TOWER LATITUDE: 17° 46' 27.007" N (17.774169°)  
 TOWER LONGITUDE: 64° 46' 27.767" W (-64.77438°)  
 GROUND ELEVATION: 838.5-FT +/- AMSL (NAVD 88)  
 ZONING JURISDICTION: DPNR, US VIRGIN ISLANDS  
 PARCEL ID: 201207052500  
 ZONED: R-1  
 PROJECT AREA: 0.11 ACRES (4,774 SF)  
 DISTURBED AREA: 0.1 ACRES (4,192 SF)  
 POWER COMPANY: VIRGIN ISLANDS WATER AND POWER AUTHORITY (WAPA)  
 PHONE: (340) 773-2250  
 TELCO/FIBER COMPANY: TBD

### PROJECT CONTACT DIRECTORY

LAND OWNER: HILLTOP PROPERTIES, LLC  
 1215 KING CROSS STREET,  
 CHRISTIANSTED, USVI 00820  
 CARRIER: LIBERTY PR  
 996 SAN ROBERTO STREET, MONACILLOS  
 RIO PIEDRAS, PR 00926  
 APPLICANT: INFRA TOWERS, LLC  
 1800 DIAGONAL ROAD, STE 600  
 ALEXANDRIA, VA 22314  
 SITE ENGINEER: DELTA OAKS GROUP, PLLC  
 4904 PROFESSIONAL COURT  
 RALEIGH, NC 27609  
 CONTACT: WILLIAM RHETT BUTLER, PE  
 (919) 342-8247  
 SURVEYOR: THE GREEN PIECE ENGINEERING + ENVIRONMENT, LLC  
 5001-12 CHANDLERS WHARF  
 CHRISTIANSTED, VIRGIN ISLANDS 00820  
 PHONE: (340) 778-7474  
 EMAIL: JEFF@THEGREENPIECE.US

### 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:

- |  |   |
|--|---|
| 1. ANSI/TIA/EIA-222-G                  | 8. 2018 INTERNATIONAL MECHANICAL CODE           |
| 2. LOCAL BUILDING CODE                 | 9. 2018 INTERNATIONAL FUEL GAS CODE             |
| 3. CITY/COUNTY ORDINANCES              | 10. 2018 INTERNATIONAL ENERGY CONSERVATION CODE |
| 4. 2018 INTERNATIONAL RESIDENTIAL CODE | 11. 2020 NATIONAL ELECTRICAL CODE               |
| 5. 2018 INTERNATIONAL BUILDING CODE    |   |
| 6. 2018 INTERNATIONAL FIRE CODE        |   |
| 7. 2018 INTERNATIONAL PLUMBING CODE    |   |

### GENERAL NOTES

- THE FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION, THEREFORE HANDICAP ACCESS IS NOT REQUIRED.
- A TECHNICIAN WILL VISIT THE SITE AS REQUIRED FOR ROUTINE MAINTENANCE APPROX. ONE TRIP PER MONTH.
- THE PROJECT WILL NOT RESULT IN A SIGNIFICANT DISTURBANCE OR EFFECT ON DRAINAGE.
- NO SANITARY SEWER SERVICE, POTABLE WATER, OR TRASH DISPOSAL IS REQUIRED
- NO COMMERCIAL SIGNAGE IS PROPOSED.



USVI 811, INC.  
 CALL 811  
 48 HOURS BEFORE YOU DIG



### SHEET INDEX

SHEET NO.	DESCRIPTION	SHEET NO.	DESCRIPTION
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S-2	SURVEY SHEET 2	E-2	ELECTRICAL DETAILS
C-1	OVERALL PARCEL VIEW	E-3	UTILITY LAYOUTS
C-2	SITE PLAN	G-1	GROUNDING DETAILS
C-3	GRADING AND EROSION CONTROL PLAN	G-2	GROUNDING PLAN
C-4	COMPOUND LAYOUT	G-3	GROUNDING DETAILS
C-5	EQUIPMENT PLAN	GN-1	GENERAL NOTES
C-6	TOWER ELEVATION AND ANTENNA CONFIG	-	-
C-7	CIVIL DETAILS (ICE BRIDGE & SILT FENCE)	-	-
C-8	CIVIL DETAILS (COMPOUND SECTION)	-	-
C-9	CIVIL DETAILS (COMPOUND FENCE)	-	-
C-10	CIVIL DETAILS (EROSION CONTROL NOTES)	-	-
C-11	ANTENNA, RRU & EQUIPMENT SPECS	-	-
C-12	CONSTRUCTION DETAILS	-	-
C-13	CONSTRUCTION DETAILS	-	-
C-14	SITE SIGNAGE	-	-
C-15	CIVIL DETAILS (STABILIZATION MATTING)	-	-

# CONSTRUCTION DRAWINGS

## PROPOSED 100-FT MONOPALM STEALTH TOWER



INFRA TOWERS, LLC  
 1800 DIAGONAL ROAD, STE 600  
 ALEXANDRIA, VA 22314

**SITE NAME**  
 CLAIRMONT

**SITE ID**  
 VI020

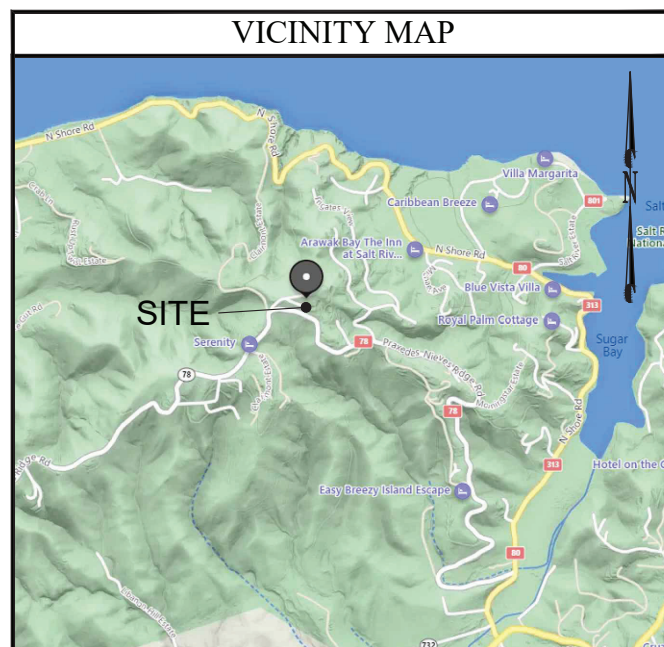
**SITE COORDINATES**

17° 46' 27.007" N, 64° 46' 27.767" W

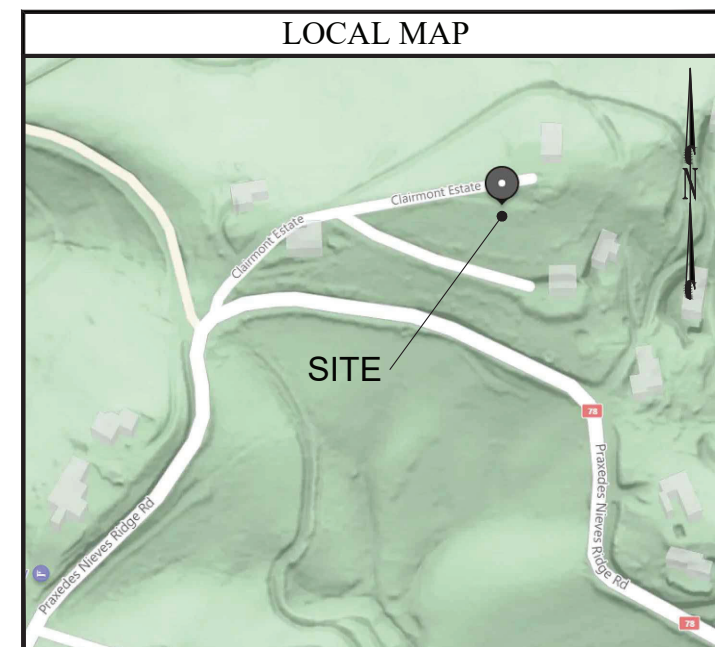
**SITE ADDRESS**

73 CLAIRMONT  
 CHRISTIANSTED, USVI 00820

### VICINITY MAP



### LOCAL MAP



### DIRECTIONS

FROM HENRY E. ROHLSSEN AIRPORT:

DEPART AND HEAD SOUTHEAST ON HENRY E ROHLSSEN AIRPORT. TURN LEFT ONTO VI-64 / W AIRPORT RD. ROAD NAME CHANGES TO VI-65. BEAR RIGHT ONTO VI-652. KEEP STRAIGHT TO GET ONTO VI-707. TURN LEFT ONTO VI-75 / QUEEN ST. TURN LEFT ONTO VI-313 / VI-80 / N SHORE RD. TURN LEFT ONTO VI-78 / PRAXEDES NIEVES RIDGE RD. TAKE A SHARP RIGHT ONTO CLAIRMONT ESTATE. ARRIVE AT CLAIRMONT ESTATE ON THE RIGHT.

PREPARED FOR:



INFRA TOWERS, LLC  
 1800 DIAGONAL ROAD, STE 600  
 ALEXANDRIA, VA 22314  
 PHONE: (571) 336-1720

CARRIER:



PREPARED BY:



DELTA OAKS GROUP  
 4904 PROFESSIONAL COURT  
 RALEIGH, NC 27609  
 PHONE: (919) 342-8247  
 WWW.DELTAOAKSGROUP.COM



MICHAEL LLOYD LASSITER, P.E. 10/14/22  
 USVI LICENSE NO. #0-26018-1B

DRAWN BY: JL  
 CHECKED BY: BJW  
 PROJECT NO: AES22-12323

### SUBMITTALS

DATE	DESCRIPTION	REV	ISSUED BY
05/12/22	PRELIMINARY	A	JL
6/17/22	PRELIMINARY	B	JL
7/06/22	FOR CONSTRUCTION	0	JL
10/14/22	CLIENT COMMENT	1	JL
11/11/22	CLIENT COMMENT	2	JL
11/21/22	CLIENT COMMENT	3	JL

THE INFORMATION CONTAINED IN THIS SET OF DOCUMENTS IS PROPRIETARY BY NATURE. REPRODUCTION OR CAUSING TO BE REPRODUCED THE WHOLE OR ANY PART OF THESE DRAWINGS WITHOUT THE PERMISSION OF THE DELTA OAKS GROUP, PLLC IS PROHIBITED.

**SITE NAME:**  
 CLAIRMONT

**SITE ADDRESS:**  
 73 CLAIRMONT  
 CHRISTIANSTED, USVI 00820

**SITE ID:**  
 VI020

**SHEET TITLE**  
 TITLE SHEET

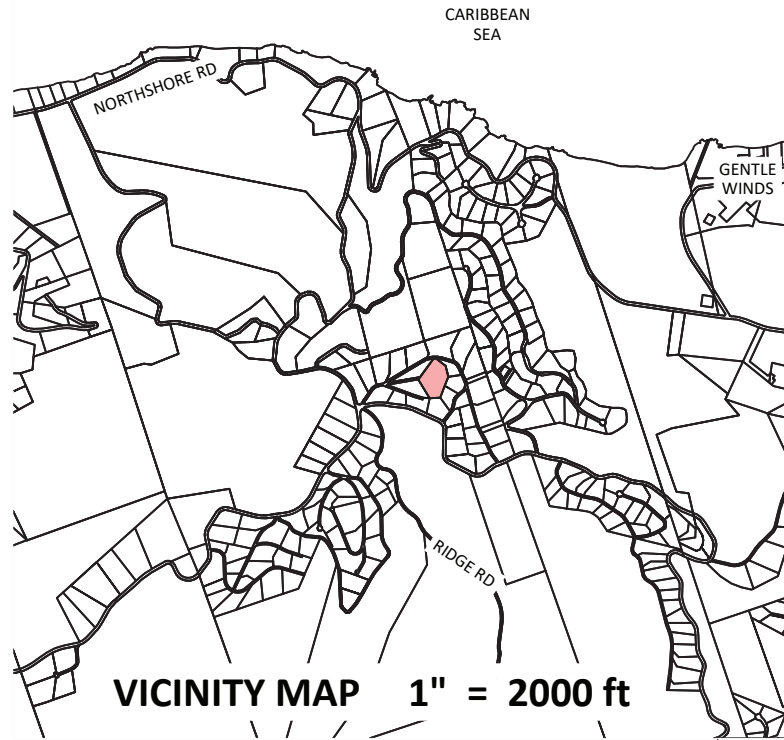
**SHEET NUMBER**  
 T-1

**Survey Certificate**

I, Jeffrey Bateman, do hereby certify to Infra Towers, LLC, a Delaware limited liability company with its headquarters address at 1800 Diagonal Road, Suite 600, Alexandria, VA 22314, Infra Holdings, LLC, a Delaware limited liability company, Infra Intermediate Holdings, LLC, a Delaware limited liability company, Infra Intermediate Holdings, LLC, a Delaware limited liability company, and each of their affiliates and lenders, the Federal Aviation Administration, Island Title Services Corporation, Lowenstein Sandler LLP, Stewart Title Guaranty Company, Fidelity National Title Insurance Company, Old Republic National Title Insurance Company and the successors and assigns of each of the foregoing, that this survey was made on the ground under my personal supervision and that this plat is a true, correct and accurate representation of the facts as found at the time of the survey.

***I do hereby certify that the survey conforms to the conditions and stipulations as checked (x) below.***

- (  ) 1. The boundary lines and dimensions of the Infra Towers' Leased Area, Access and Utility easements (collectively, the "Easements") indicated hereon is correct.
- (  ) 2. To the extent the Lease Area and Easements indicated hereon are part of a parent parcel, such Lease Parcel and Easements are located within the boundaries of the record title legal description of such parent parcel. The location of said Lease Parcel and Easements relative to an approximation of the location of the boundaries of the parent tract is illustrated on the inset shown hereon.
- ( ) 3a. Stakes are set at each proposed Lease Area corner.
- ( ) 3b. Stakes are set at proposed tower location.
- ( ) 3c. Stakes are set in the centerline of proposed Access Road.
- ( ) 3d. Stakes are set at each proposed guy anchor point (if applicable).
- (  ) 3e. No stakes are set.
- (  ) 4. The distance from the nearest intersecting public street or road is as shown hereon.
- (  ) 5. Shows the location and dimension of all alleys, streets, roads, rights-of-way, easements and other matters of record which the surveyor has been advised affects the Lease Area and/or Easements (each has been identified by instrument volume and page number if available).
- (  ) 6. Except as shown, there are no visible easements, rights-of-way, party walls or conflicts affecting the Lease Area and/or Easements; further, this survey is not subject to any easements or rights-of-way not visible on the ground.
- (  ) 7. The location of all buildings, structures and other improvements of visible items affecting the Lease Parcel and Easements, if shown, are as indicated hereon. The location of all other buildings, structures and other improvements of visible items on the parent tract, if shown hereon, are approximate in nature, except that the Lease Area and Easements are entirely located within the boundaries of the parent parcel, as shown on the inset.
- (  ) 8. Except as shown, there are no visible protrusions on adjoining premises, streets or alleys by any building, structure or other improvements situated on the Lease Area and/or Easements.
- (  ) 9. Except as shown, there are no visible encroachments onto the Lease Area and/or Easements by any building, structure or other improvements situated on adjoining premises.



- ( ) 10a. Shows the location and acres contained in all portions of the Lease Area and Easements which are located in an area designated as a "FLOOD PRONE AREA (ZONE A)" as defined by the U.S. Department of Housing and Urban Development pursuant to the Flood Disaster Act of 1973; NONE, FIRM Community Panel No.
- (  ) 10b The site Lease Area and Easements are located in an area designated as a Flood Zone X as defined by the U.S. Department of Housing and Urban Development pursuant to the Flood Disaster Act of 1973 FIRM Community Panel No 780000 0059G.
- (  ) 11. Describes and shows the location of all public streets and roads visibly providing access to and from the subject property, and correctly sets forth the municipal address of the subject property.
- (  ) 12. Depicts the latitudinal and longitudinal coordinates of the proposed tower(s) location(s), to the nearest tenth of a second, the elevation above mean sea level of the base and tip of each tower, plus or minus 20 feet, the elevation of the tip of each tower as measured from ground level, and additionally, the elevation of the tip of the highest appurtenance on the tower as measured from ground level, if such appurtenance is higher in elevation than the highest point of the tower structure itself, to the nearest foot, on the survey drawing and on a separate 8-1/2" x 11" certified letterhead.
- (  ) 13. Survey of the Lease Area and Easements meets or exceeds the minimum technical standards for Land Boundary surveys set forth by Virgin Islands Law.
- (  ) 14. The subject property is currently zoned R-1.



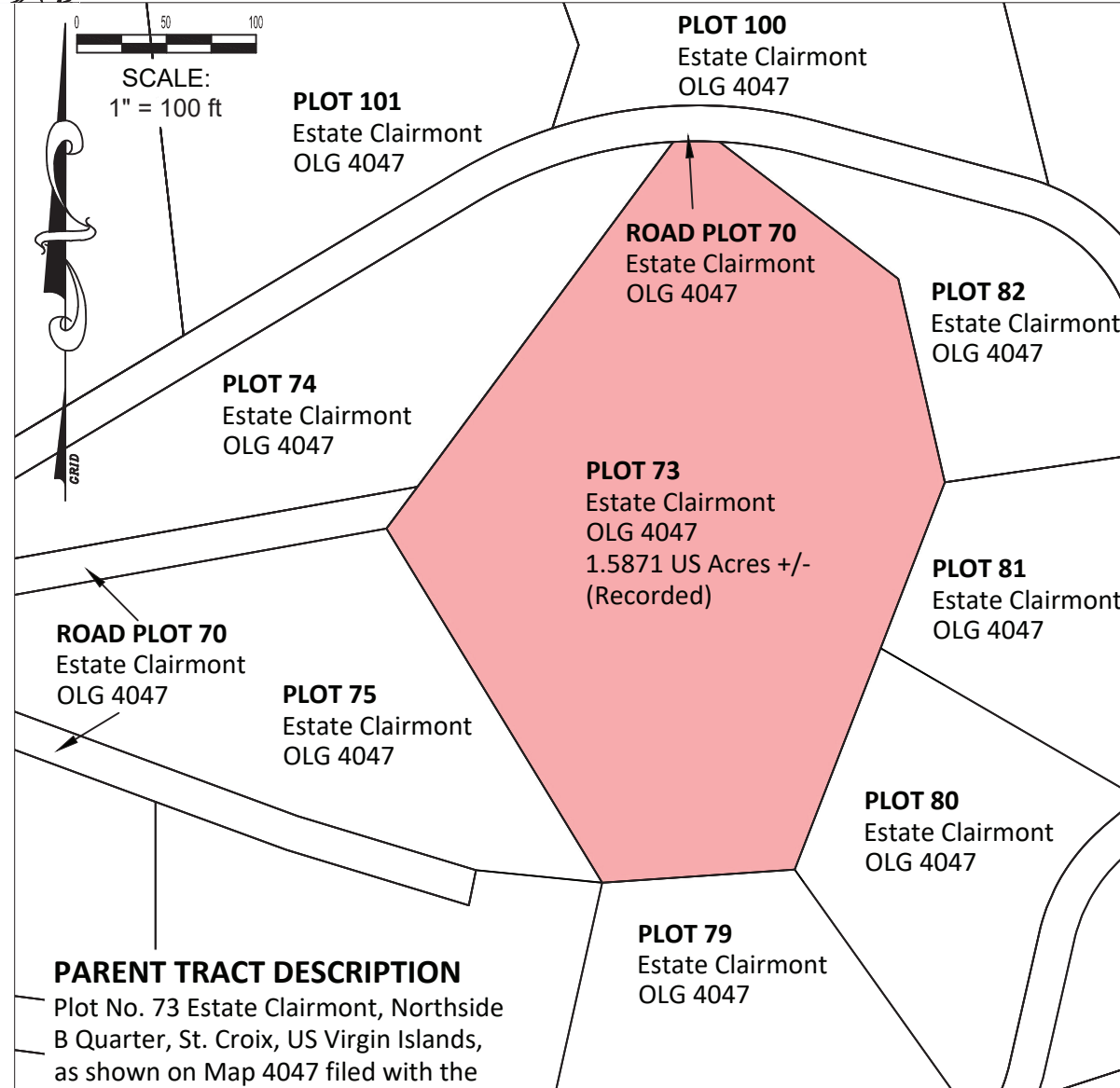
March 18, 2022  
 Jeffrey L. Bateman, PLS  
 The Green Piece Engineering + Environment, LLC

**GENERAL NOTES**

1. THIS SURVEY WAS PREPARED BY BCSC DOSPIVA, LLC., UNDER THE SUPERVISION OF JEFFREY BATEMAN, PLS.
2. THIS PLAN HAS BEEN PREPARED FOR LAYOUT AND PERMITTING PURPOSES ONLY.
3. THIS IS NOT A BOUNDARY SURVEY. PROPERTY LINES SHOWN WERE TAKEN FROM EXISTING FIELD EVIDENCE, EXISTING DEEDS AND PLATS OF PUBLIC RECORD, AND INFORMATION SUPPLIED TO THE SURVEYOR BY THE CLIENT.
4. VERTICAL DATUM, LATITUDE, LONGITUDE AND STATE PLANE COORDINATES, IF SHOWN, ARE GIVEN IN NORTH AMERICAN DATUM OF 1983 (NAD83) AND ARE DERIVED BY OPUS SOLUTION BASED ON ZONE 5200.
5. FIELD EQUIPMENT USED: TRIMBLE GNSS GPS.
6. ALL DISTANCES ARE HORIZONTAL GROUND DISTANCES AND ALL BEARINGS ARE PUERTO RICO / US VIRGIN ISLANDS COORDINATE SYSTEM UNLESS OTHERWISE SHOWN.
7. PROPERTY OWNER: HILLTOP PROPERTIES, LLC.
8. THIS MAP IS NOT A CERTIFIED SURVEY AND HAS NOT BEEN REVIEWED BY A LOCAL GOVERNMENT AGENCY FOR COMPLIANCE WITH ANY APPLICABLE LAND DEVELOPEMENT REGULATIONS.
9. THE PROPERTY LIES IN ZONE "X", PER NATIONAL FLOOD INSURANCE PROGRAM FLOOD INSURANCE RATE MAP 7800000059G, DATED APRIL 16, 2007 AND IS ZONED R-1.

**ISLAND TITLE SERVICES CORP REPORT IT-21-0035 05/20/2020 EXCEPTIONS**

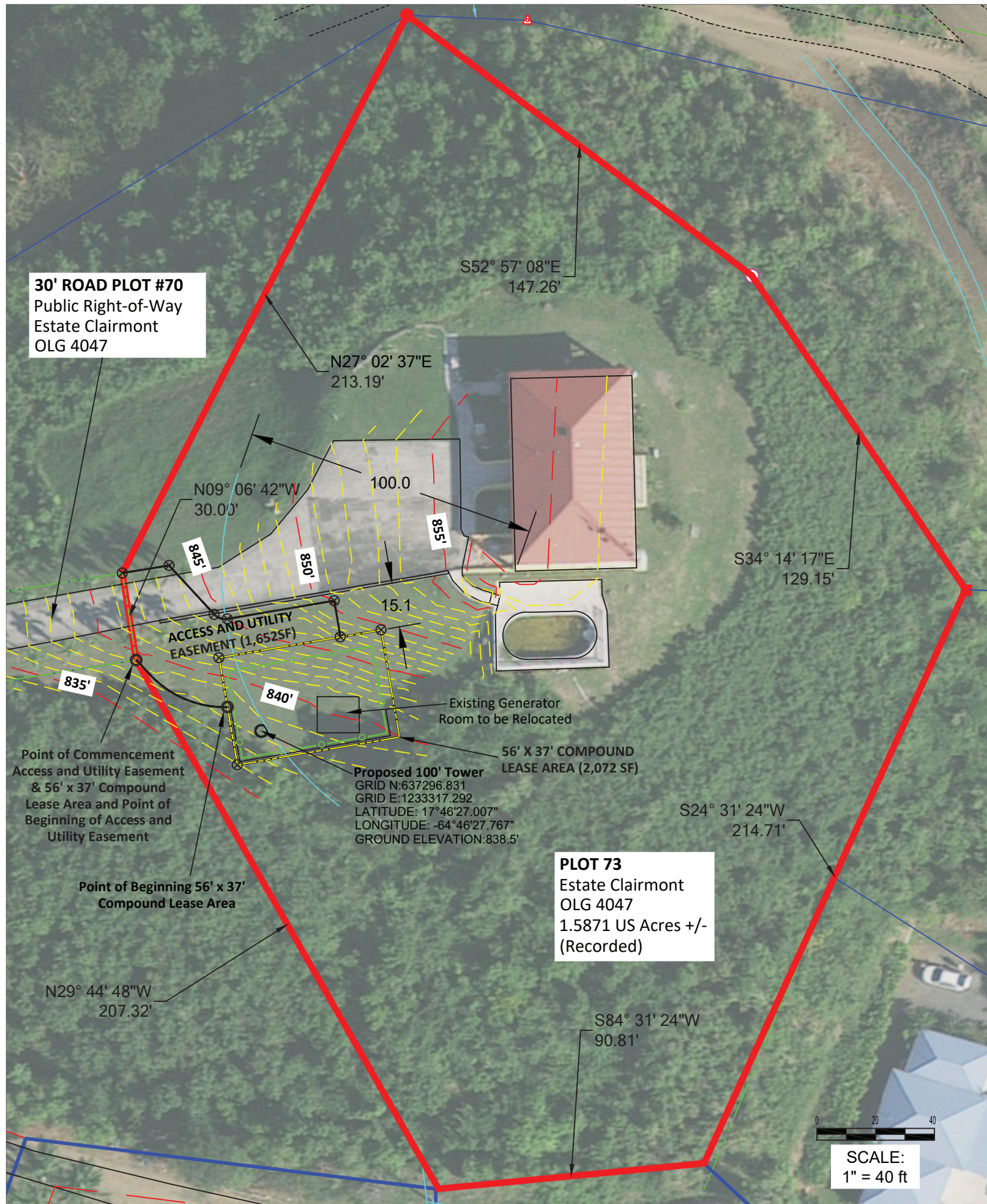
- A - AS SHOWN ON MAP
- B - 20' SETBACK APPLIES TO PERIMETER OF PLOTS 73, 74 & 75 (COMMON OWNERSHIP)
- C - NOT A SURVEY ITEM
- D - NOT A SURVEY ITEM
- E - DOES NOT AFFECT THE LEASE AREA OR ACCESS/UTILITY EASEMENTS
- F - DOES NOT AFFECT THE LEASE AREA OR ACCESS/UTILITY EASEMENTS



**PARENT TRACT DESCRIPTION**  
 Plot No. 73 Estate Clairmont, Northside B Quarter, St. Croix, US Virgin Islands, as shown on Map 4047 filed with the Office of the Lt. Governor.

Source: USVI GIS Property Lines

SITE NAME: CLAIRMONT		
SITE NUMBER: VI 020		
SITE ADDRESS: 73 CLAIRMONT CHRISTIANSTED ST CROIX, VI 00820		
AREA: ST CROIX US VIRGIN ISLANDS		
SITE OWNER: INFRA TOWERS, LLC 1800-600 DIAGONAL ROAD ALEXANDRIA, VA 22314		
PROPERTY OWNER: HILLTOP PROPERTIES, LLC		
1A LOCATION LATITUDE: N 17° 46' 27.007" NAD83 LONGITUDE: W 64° 46' 27.767" NAD83 ELEVATION: 838.5' VIVD09		
<b>LEGEND</b> 		
NO.	REVISION/ISSUE	DATE
1	PER COMMENTS	03/26/22
<b>The Green Piece Engineering + Environment, LLC</b> 5001-12 Chandler's Wharf Christiansted, Virgin Islands 00820 Ph: 340.778.7474 www.thegreenpiece.us		
PREPARED FOR: <b>Infra Towers, LLC</b> 1800-600 Diagonal Road Alexandria, VA 22314		
PROJECT NUMBER: 22X049		SHEET
SITE SURVEY		S-1



### 56' x 37' COMPOUND LEASE AREA

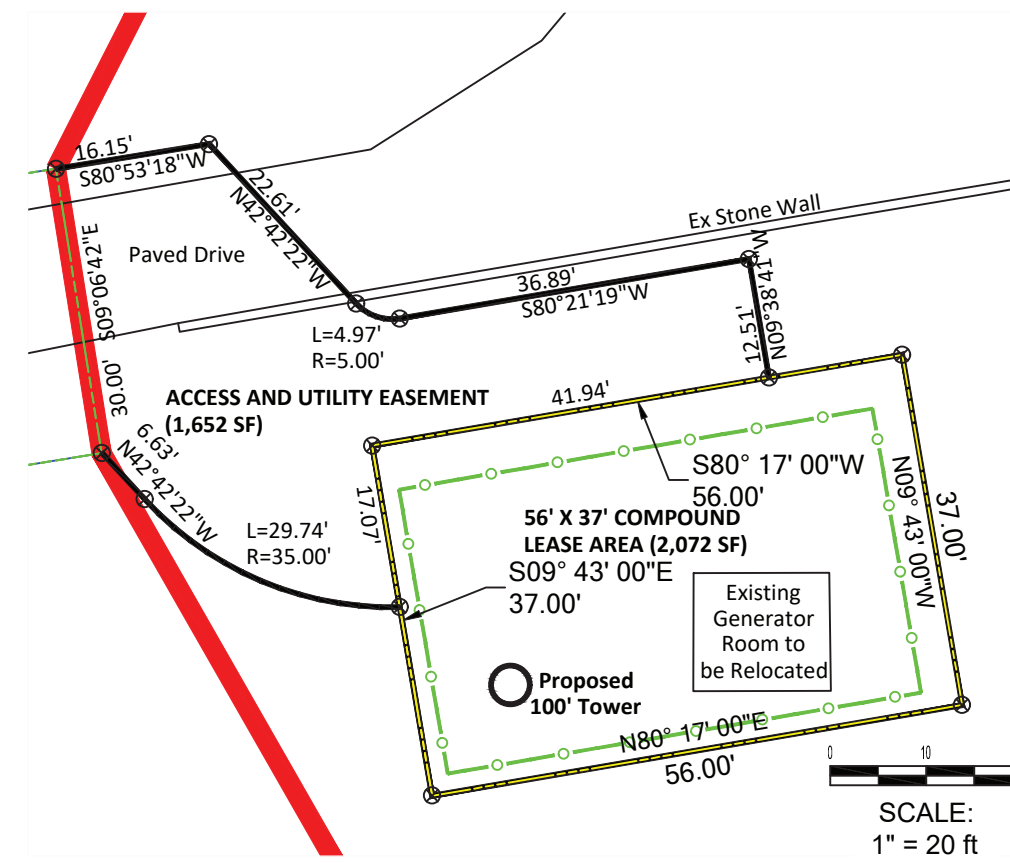
All that certain parcel of land, situate on the island of Saint Croix in Estate Clairmont, Northside B Quarter, being on the lands as described in Public Works Drawing 4047, Virgin Islands Cadastral Records as Plot 73, and being more particularly described as follows:

Beginning at a point on the referenced drawing of the herein described 56' x 37' Compound Lease Area and as described in the Access and Utility Easement, thence N09°43'00"W 17.07' to a point, thence N80°17'00"E 56.00' to a point, thence S09°43'00"E 37.00' to a point, thence S80°17'00"W 56.00' to a point, thence N09°43'00"W 19.93' to a point, said point being the Point of Beginning of the herein described 56' x 37' Compound Lease Area, said Lease Area contains 2,072 square feet, more or less.

### ACCESS AND UTILITY EASEMENT

All that certain parcel of land, situate on the island of Saint Croix in Estate Clairmont, Northside B Quarter, being on the lands as described in Public Works Drawing 4047, Virgin Islands Cadastral Records as Plot 73, and being more particularly described as follows:

Beginning at a point at the Southwest corner of said Plot 73, said point also being the southeast corner of Road Plot 70, thence S42°42'22"E 6.63' to a point, thence along a 35.00' foot radius curve concave to the northeast an arc length of 29.74' to a point, said point also being the Point of Beginning for the herein described 56' X 37' Compound Lease Area, thence N09°43'00"W 17.07' to a point, thence N80°17'00"E 41.94' to a point, thence N09°38'41"E 12.51' to a point, thence S80°21'19"W 36.89' to a point, thence along a 5.00' foot radius curve concave to the northeast an arc length of 4.97' to a point, thence N42°42'22"W 22.61' to a point, thence S80°53'18"E 16.15' to a point, thence S09°06'42"E 30.00' to a point, said point being the Point of Beginning of the herein described Access and Utility Easement Area, said Easement Area contains 1,652 square feet, more or less.



SITE NAME:	CLAIRMONT
SITE NUMBER:	VI 020
SITE ADDRESS:	73 CLAIRMONT CHRISTIANSTED ST CROIX, VI 00820
AREA:	ST CROIX US VIRGIN ISLANDS
SITE OWNER:	INFRA TOWERS, LLC 1800-600 DIAGONAL ROAD ALEXANDRIA, VA 22314
PROPERTY OWNER:	HILLTOP PROPERTIES, LLC
1A LOCATION	LATITUDE: N 17° 46' 27.007" NAD83 LONGITUDE: W 64° 46' 27.767" NAD83 ELEVATION: 838.5' VIVD09

**LEGEND**

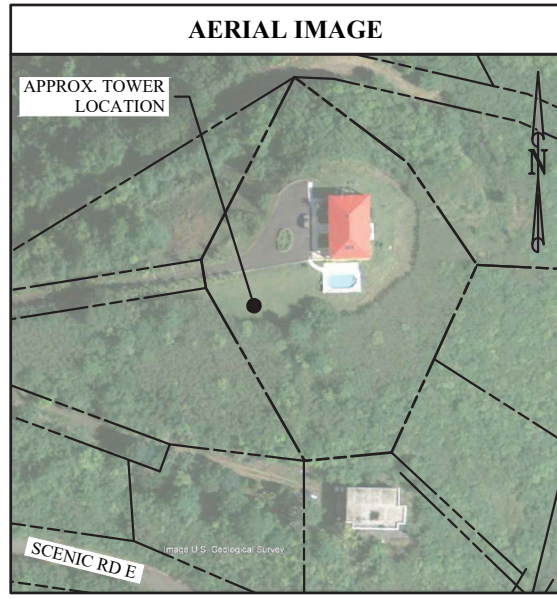
- ⊕ EXIST. UTILITY POLE
- ⊕ EXIST. TELE PED
- IRON FOUND
- ⊙ CHISEL MARK FOUND
- ⊗ COMPUTED POINT

NO.	REVISION/ISSUE	DATE
1	PER COMMENTS	03/26/22
2	REVISE ACCESS	11/28/22

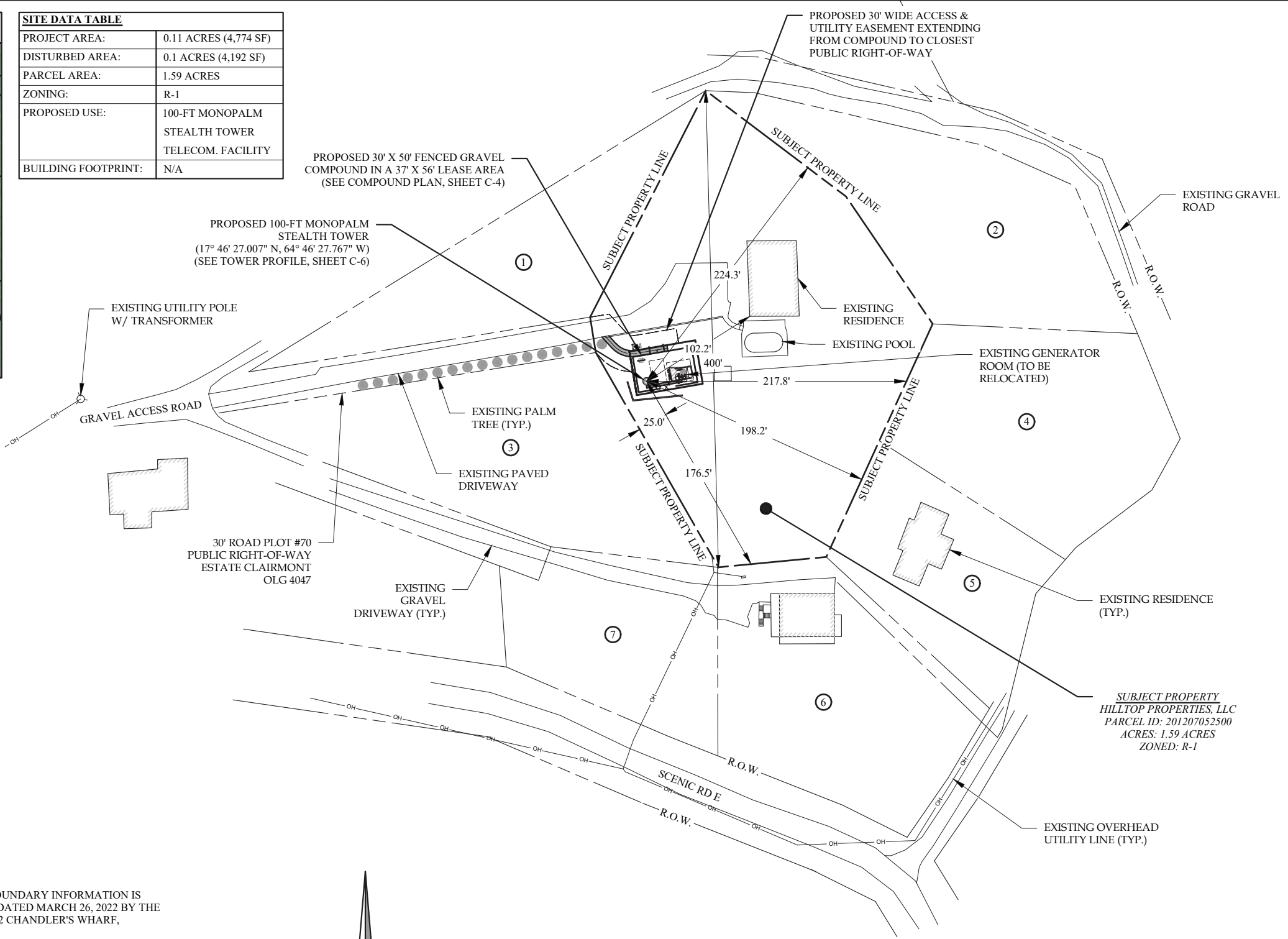
**The Green Piece Engineering + Environment, LLC**  
5001-12 Chandler's Wharf  
Christiansted, Virgin Islands 00820  
Ph: 340.778.7474  
www.thegreenpiece.us

PREPARED FOR:  
**Infra Towers, LLC**  
1800-600 Diagonal Road  
Alexandria, VA 22314

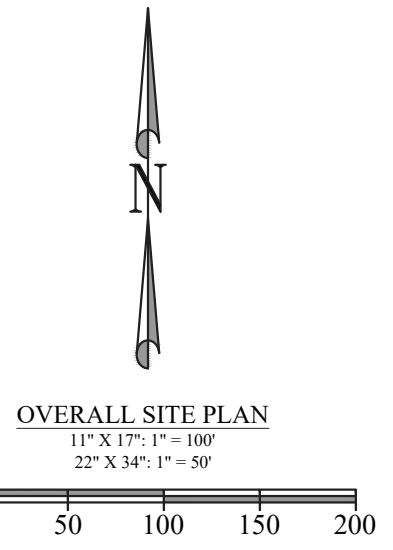
PROJECT NUMBER:	22X049
SITE SURVEY	SHEET S-2



SITE DATA TABLE	
PROJECT AREA:	0.11 ACRES (4,774 SF)
DISTURBED AREA:	0.1 ACRES (4,192 SF)
PARCEL AREA:	1.59 ACRES
ZONING:	R-1
PROPOSED USE:	100-FT MONOPALM STEALTH TOWER TELECOM. FACILITY
BUILDING FOOTPRINT:	N/A



- NOTES**
- SEE GENERAL NOTES ON SHEET GN-1
  - EXISTING TOPOGRAPHIC, UTILITY, PLANIMETRIC, AND BOUNDARY INFORMATION IS TAKEN FROM A DRAWING ENTITLED "CLAIRMONT" AND DATED MARCH 26, 2022 BY THE GREEN PIECE ENGINEERING + ENVIRONMENT, LLC. 5001-12 CHANDLER'S WHARF, CHRISTIANSTED, USVI 00820; (340) 778-7474
  - THE SITE SHALL BE GRADED TO CAUSE SURFACE WATER TO FLOW AWAY FROM THE PROPOSED EQUIPMENT & TOWER AREA.
  - AUTHORIZATION FOR WORK WITHIN PUBLIC R.O.W. SHALL BE OBTAINED BY THE CONTRACTOR.
  - EROSION CONTROL MEASURES SHALL BE INSTALLED IN CONFORMANCE WITH LOCAL, COUNTY, AND STATE GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL.
  - THE PROPOSED PROJECT WILL NOT RESULT IN A SIGNIFICANT AREA OF DISTURBANCE AND WILL NOT SIGNIFICANTLY INCREASE STORM WATER RUNOFF.
  - NO SIGNIFICANT NOISE, SMOKE, DUST, OR ODOR WILL RESULT FROM THIS FACILITY.
  - THE SITE WILL GENERATE APPROX. 1 TRIP PER MONTH BY TECHNICIANS PERFORMING ROUTINE MAINTENANCE.
  - THE FACILITY IS UNMANNED AND NOT INTENDED FOR HUMAN HABITATION. THERE IS NO HANDICAP ACCESS REQUIRED.
  - THE FACILITY DOES NOT REQUIRE WATER OR SANITARY SEWER SERVICE.
  - THE PROPOSED TOWER LEASE AREA IS NOT LOCATED WITHIN A SPECIAL FLOOD HAZARD ZONE PER FEMA FIRM #7800000059G WITH EFFECTIVE DATE OF APRIL 16, 2017.
  - THERE ARE NO WETLANDS WITHIN THE PROJECT AREA PER US FISH AND WILDLIFE SERVICE NATIONAL WETLANDS INVENTORY.
  - THE FACILITY DOES NOT GENERATE SOLID WASTE REQUIRING ON-SITE STORAGE OR DISPOSAL SERVICES.



ADJOINING PROPERTY OWNERS					
#	PARCEL ID	PROPERTY ADDRESS	OWNER NAME	ACRES	ZONED
①	201207095600	74 CLAIRMONT	HILLTOP PROPERTIES LLC	0.54	R-1
②	201200025900	82 CLAIRMONT	LANDBACK, JEFFREY CHRISTOPHER	0.75	R-1
③	201206095500	75 CLAIRMONT	HILLTOP PROPERTIES LLC	0.81	R-1
④	201200027100	81 CLAIRMONT	SUEHLE, ROBERT J & TAYLOR R.	0.75	R-1
⑤	201200024500	80 CLAIRMONT	ROBBINS, MARJORIE P	0.52	R-1
⑥	201200023000	79 CLAIRMONT	FRANKS, RYAN & SARAH	0.86	R-1
⑦	201200023600	78 CLAIRMONT	FRANKS, RYAN & SARAH	0.57	R-1

PREPARED FOR:  
**INFRA TOWERS**  
 INFRA TOWERS, LLC  
 1800 DIAGONAL ROAD, STE 600  
 ALEXANDRIA, VA 22314  
 PHONE: (571) 336-1720

CARRIER:  
  
**LIBERTY LATIN AMERICA**

PREPARED BY:  
  
**DELTA OAKS GROUP**  
 4904 PROFESSIONAL COURT  
 RALEIGH, NC 27609  
 PHONE: (919) 342-8247  
 WWW.DELTAOAKSGROUP.COM

MICHAEL LLOYD LASSITER  
 U.S. VIRGIN ISLANDS

MICHAEL LLOYD LASSITER, P.E. 10/14/22  
 USVI LICENSE NO. #0-26018-1B  
 DRAWN BY: JL  
 CHECKED BY: BJW  
 PROJECT NO: AES22-12323

SUBMITTALS				
DATE	DESCRIPTION	REV	ISSUED BY	
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11/21/22	CLIENT COMMENT	3	JL	

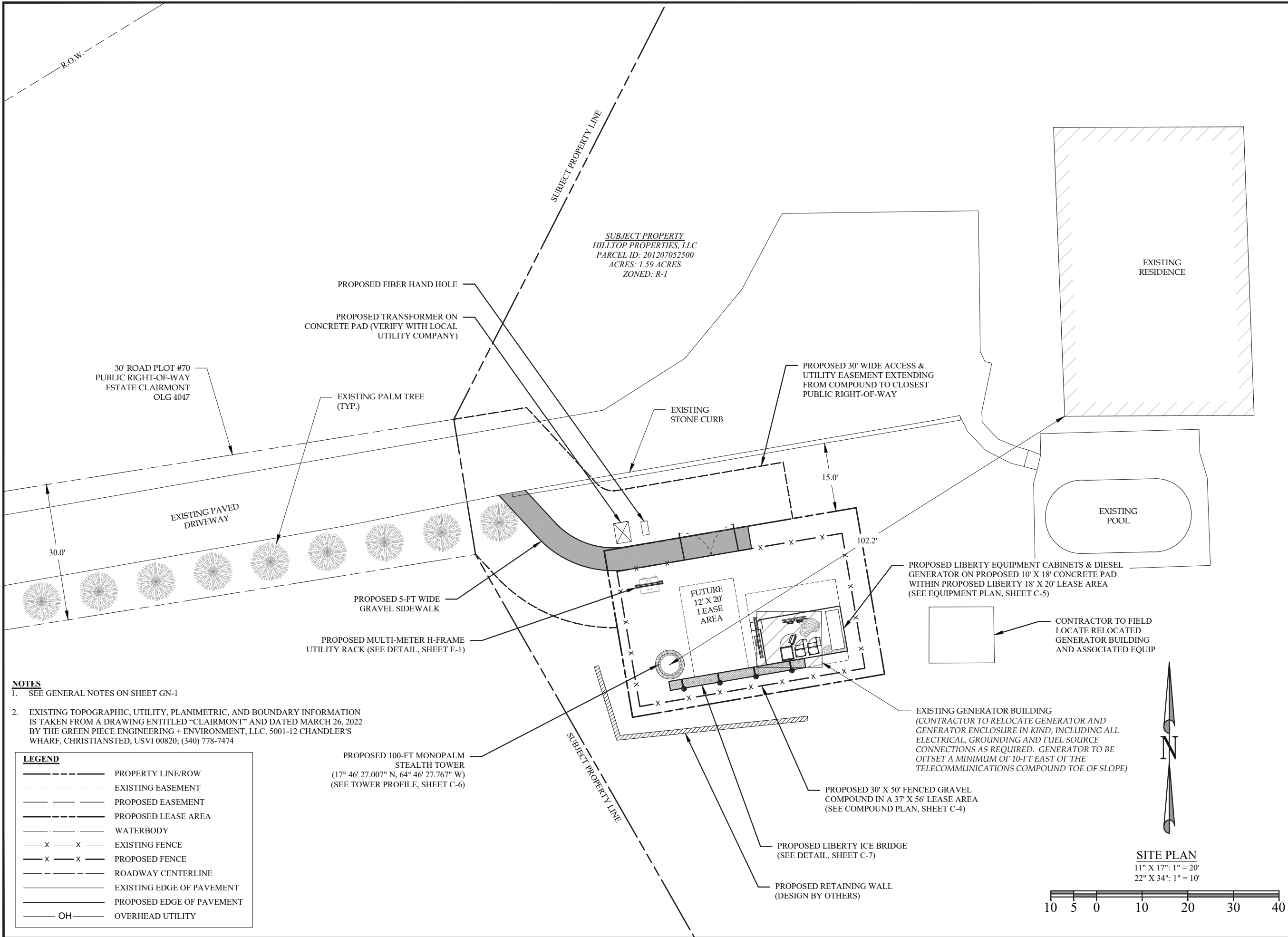
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**SITE NAME:**  
 CLAIRMONT  
**SITE ADDRESS:**  
 73 CLAIRMONT  
 CHRISTIANSTED, USVI 00820

**SITE ID:**  
 VI020

**SHEET TITLE**  
 OVERALL SITE PLAN

**SHEET NUMBER**  
 C-1



- NOTES**
- SEE GENERAL NOTES ON SHEET GN-1
  - EXISTING TOPOGRAPHIC, UTILITY, PLANIMETRIC, AND BOUNDARY INFORMATION IS TAKEN FROM A DRAWING ENTITLED "CLAIRMONT" AND DATED MARCH 26, 2022 BY THE GREEN PIECE ENGINEERING + ENVIRONMENT, LLC. 5001-12 CHANDLER'S WHARF, CHRISTIANSTED, USVI 00820; (340) 778-7474

**LEGEND**

---	PROPERTY LINE/ROW
- - - -	EXISTING EASEMENT
- · - · -	PROPOSED EASEMENT
- · - · -	PROPOSED LEASE AREA
~~~~~	WATERBODY
- x - x -	EXISTING FENCE
- x - x -	PROPOSED FENCE
- - - -	ROADWAY CENTERLINE
---	EXISTING EDGE OF PAVEMENT
---	PROPOSED EDGE OF PAVEMENT
OH	OVERHEAD UTILITY

PREPARED FOR:

**INFRA TOWERS**

INFRA TOWERS, LLC  
1800 DIAGONAL ROAD, STE 600  
ALEXANDRIA, VA 22314  
PHONE: (571) 336-1720

CARRIER:

**LIBERTY LATIN AMERICA**

PREPARED BY:

**DELTA OAKS GROUP**

DELTA OAKS GROUP  
4904 PROFESSIONAL COURT  
RALEIGH, NC 27609  
PHONE: (919) 342-8247  
WWW.DELTAOAKSGROUP.COM



MICHAEL LLOYD LASSITER, P.E. 10/14/22  
USVI LICENSE NO. #0-26018-1B

DRAWN BY: JL  
CHECKED BY: BJW  
PROJECT NO: AES22-12323

**SUBMITTALS**

DATE	DESCRIPTION	REV	ISSUED BY
05/12/22	PRELIMINARY	A	JL
6/17/22	PRELIMINARY	B	JL
7/06/22	FOR CONSTRUCTION	0	JL
10/14/22	CLIENT COMMENT	1	JL
11/11/22	CLIENT COMMENT	2	JL
11/21/22	CLIENT COMMENT	3	JL

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**SITE NAME:**  
CLAIRMONT

**SITE ADDRESS:**  
73 CLAIMONT  
CHRISTIANSTED, USVI 00820

**SITE ID:**  
VI020

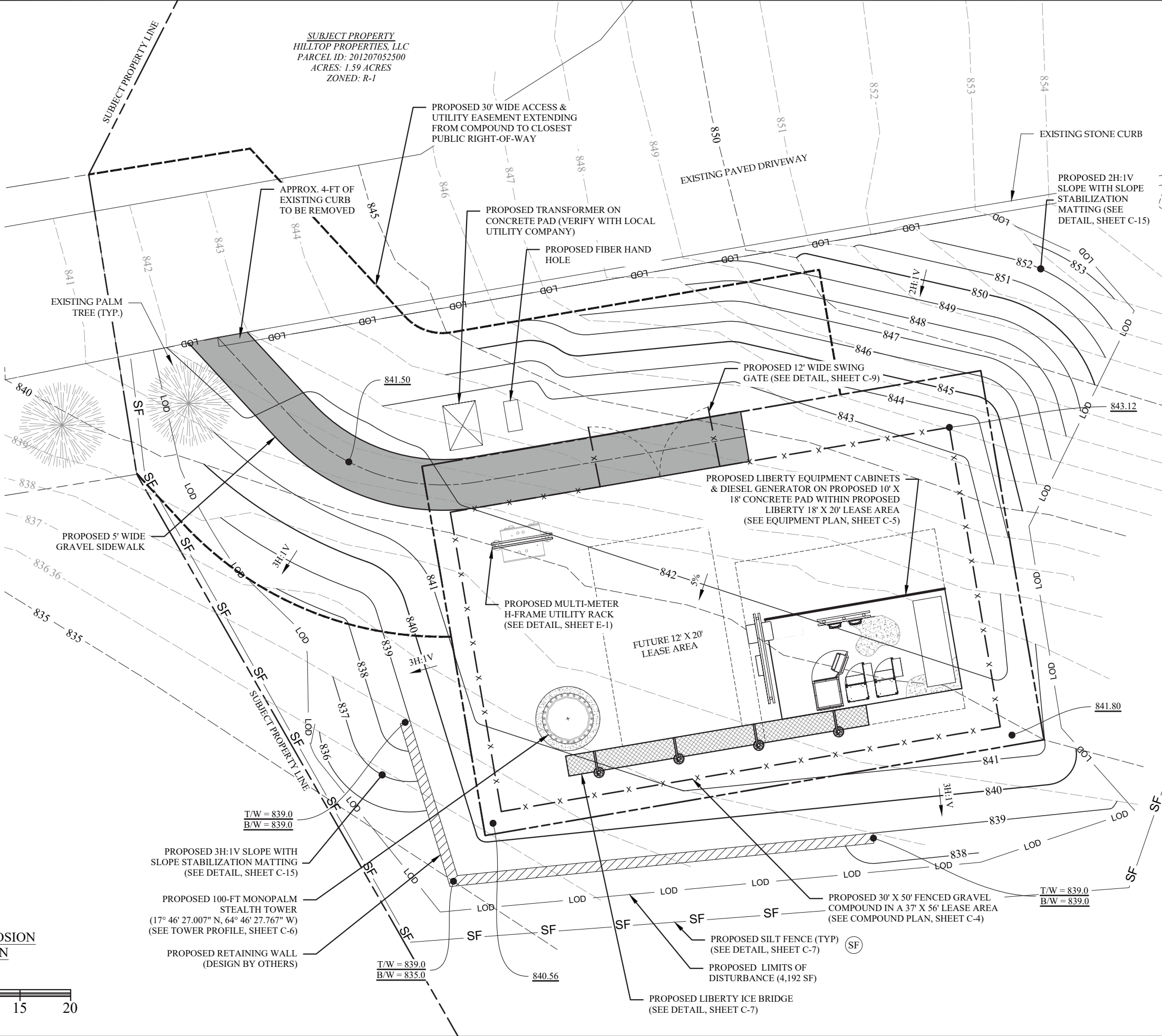
**SHEET TITLE**  
SITE PLAN

**SHEET NUMBER**  
C-2

- LEGEND**
- 846 --- EXISTING CONTOUR (MINOR)
  - 845 --- EXISTING CONTOUR (MAJOR)
  - 846 --- PROPOSED CONTOUR (MINOR)
  - 845 --- PROPOSED CONTOUR (MAJOR)
  - --- PROPERTY LINE/ROW
  - --- EXISTING EASEMENT
  - --- PROPOSED EASEMENT
  - --- PROPOSED LEASE AREA
  - --- WATERBODY
  - X --- EXISTING FENCE
  - X --- PROPOSED FENCE
  - --- ROADWAY CENTERLINE
  - --- EXISTING EDGE OF PAVEMENT
  - --- PROPOSED EDGE OF PAVEMENT
  - OH --- OVERHEAD UTILITY
  - --- EXISTING SLOPE/DRAINAGE
  - 5% --- PROPOSED SLOPE/DRAINAGE
  - --- PROPOSED DITCH
  - 843.12 --- PROPOSED SPOT ELEV
  - × 843.20 --- EXISTING SPOT ELEV

- EROSION AND SEDIMENT CONTROL LEGEND**
- SF --- SF --- (SF) --- PROPOSED SILT FENCE
  - LOD --- LIMITS OF DISTURBANCE

- NOTES**
- SEE GENERAL NOTES ON SHEET GN-1
  - ALL FILL SLOPES SHOULD HAVE A MAXIMUM GRADE OF 3H:1V.
  - ALL CUT SLOPES SHOULD HAVE A MAXIMUM GRADE OF 2H:1V.
  - SEE SEEDING SCHEDULE ON SHEET C-10
  - EXISTING VEGETATION WILL BE USED TO SCREEN GROUND EQUIPMENT FROM ADJACENT PROPERTIES.



**GRADING AND EROSION CONTROL PLAN**  
 11" X 17": 1" = 10'  
 22" X 34": 1" = 5'



PREPARED FOR:  
**INFRA TOWERS**  
 INFRA TOWERS, LLC  
 1800 DIAGONAL ROAD, STE 600  
 ALEXANDRIA, VA 22314  
 PHONE: (571) 336-1720

CARRIER:  
  
**LIBERTY LATIN AMERICA**

PREPARED BY:  
  
**DELTA OAKS GROUP**  
 4904 PROFESSIONAL COURT  
 RALEIGH, NC 27609  
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**PROFESSIONAL ENGINEER**  
 MICHAEL LLOYD LASSITER  
 0-26018-1B  
 U.S. VIRGIN ISLANDS

MICHAEL LLOYD LASSITER, P.E. 10/14/22  
 USVI LICENSE NO. #0-26018-1B  
 DRAWN BY: JL  
 CHECKED BY: BJW  
 PROJECT NO: AES22-12323

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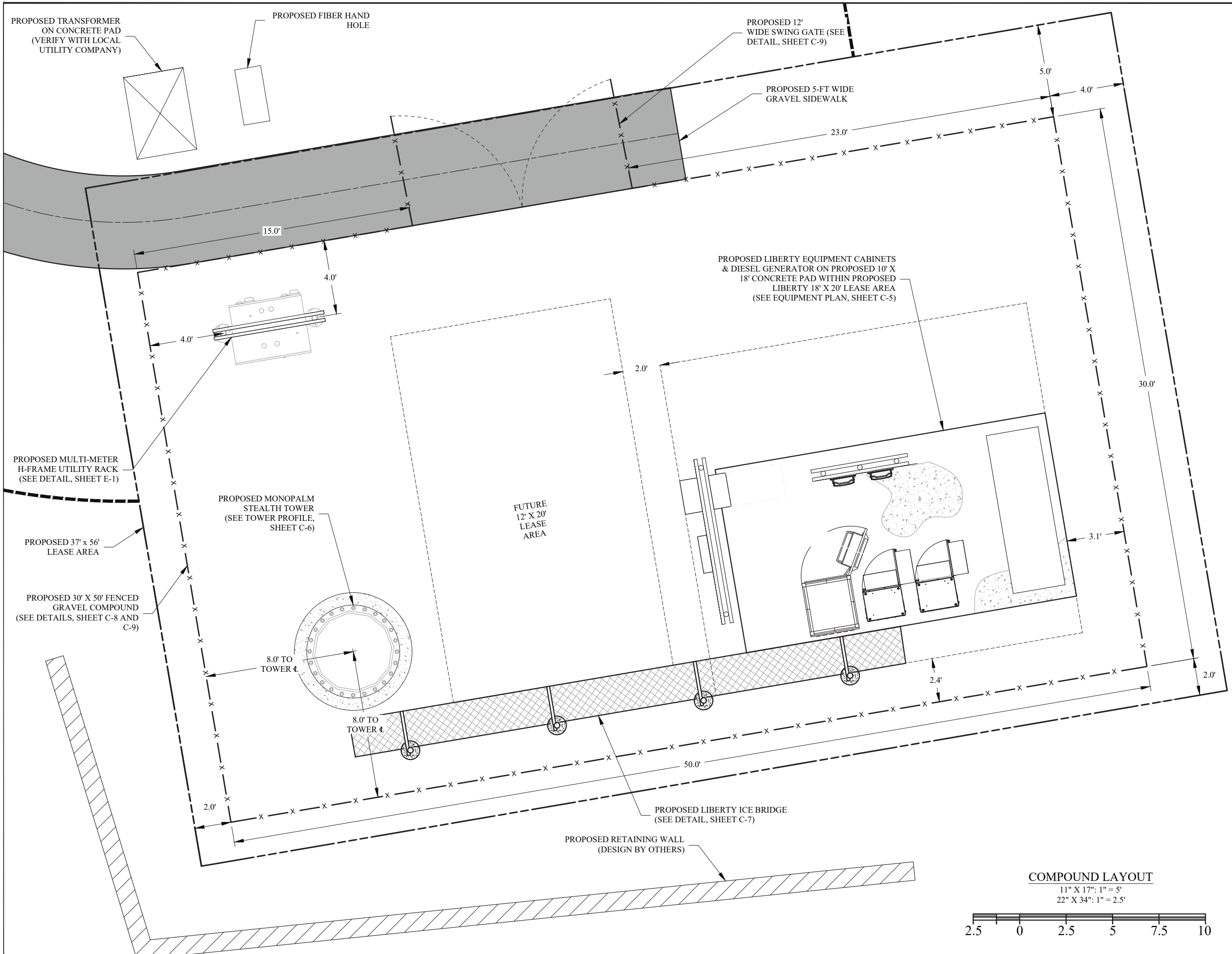
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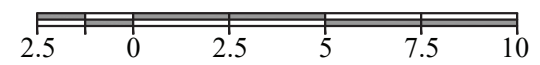
**SITE ID:**  
 VI020

**SHEET TITLE**  
 GRADING AND EROSION CONTROL PLAN

**SHEET NUMBER**  
 C-3



**COMPOUND LAYOUT**  
 11" X 17": 1" = 5'  
 22" X 34": 1" = 2.5'



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 MICHAEL LLOYD LASSITER  
 0-26018-1B

MICHAEL LLOYD LASSITER, P.E. 10/14/22  
 USVI LICENSE NO. #0-26018-1B

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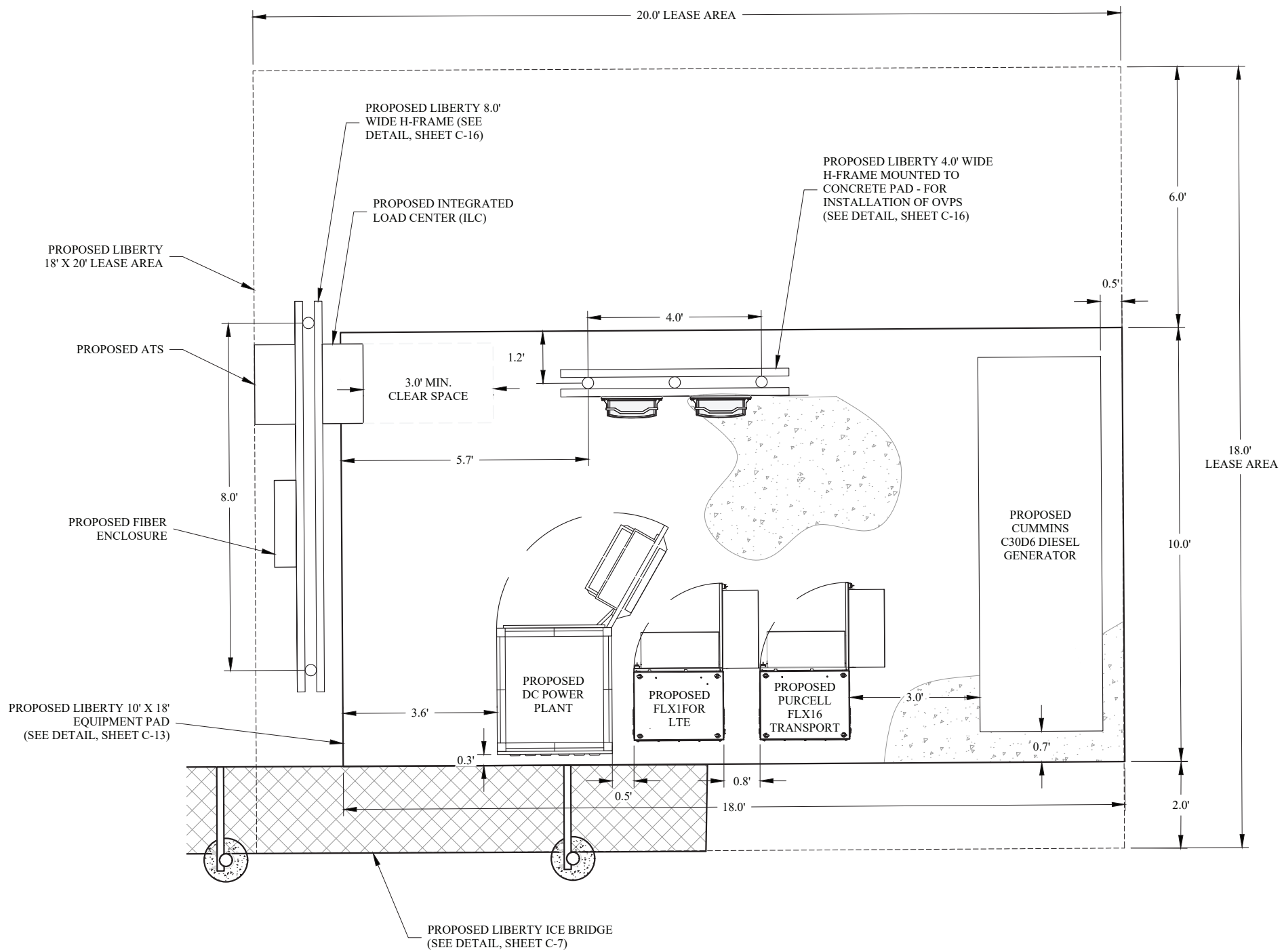
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**SITE ID:**  
 VI020

**SHEET TITLE**  
 COMPOUND LAYOUT

**SHEET NUMBER**  
 C-4



**EQUIPMENT PLAN**  
 11" X 17": 1" = 3'  
 22" X 34": 1" = 1.5'



PREPARED FOR:

**INFRA TOWERS**

INFRA TOWERS, LLC  
 1800 DIAGONAL ROAD, STE 600  
 ALEXANDRIA, VA 22314  
 PHONE: (571) 336-1720

CARRIER:

**LIBERTY LATIN AMERICA**

PREPARED BY:

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*Michael Lloyd Lassiter*

PROFESSIONAL ENGINEER  
 MICHAEL LLOYD LASSITER  
 0-26018-1B  
 U.S. VIRGIN ISLANDS

MICHAEL LLOYD LASSITER, P.E. 10/14/22  
 USVI LICENSE NO. #0-26018-1B

DRAWN BY: JL  
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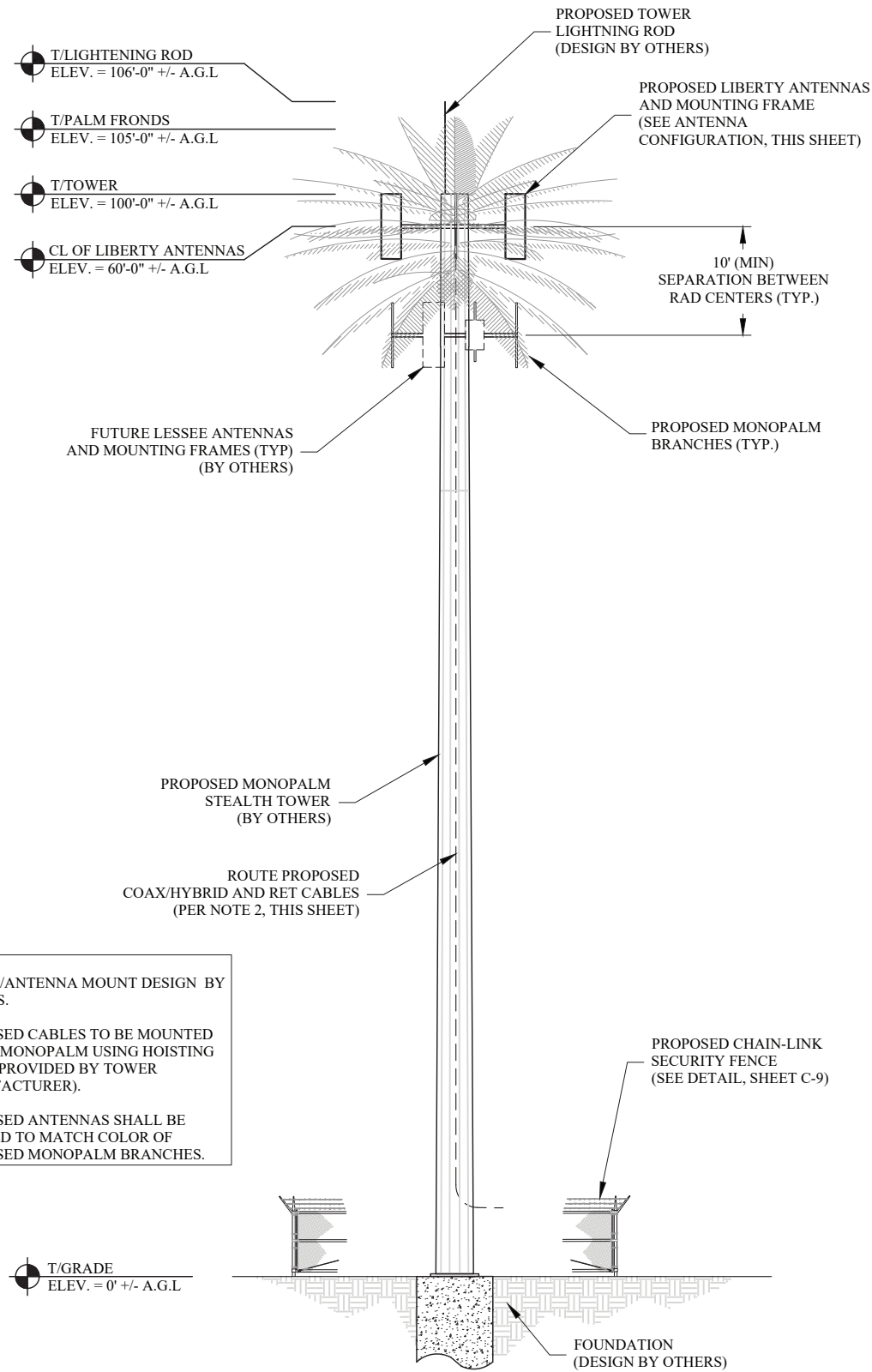
**SITE ID:**  
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**SHEET TITLE**  
 EQUIPMENT PLAN

**SHEET NUMBER**  
 C-5

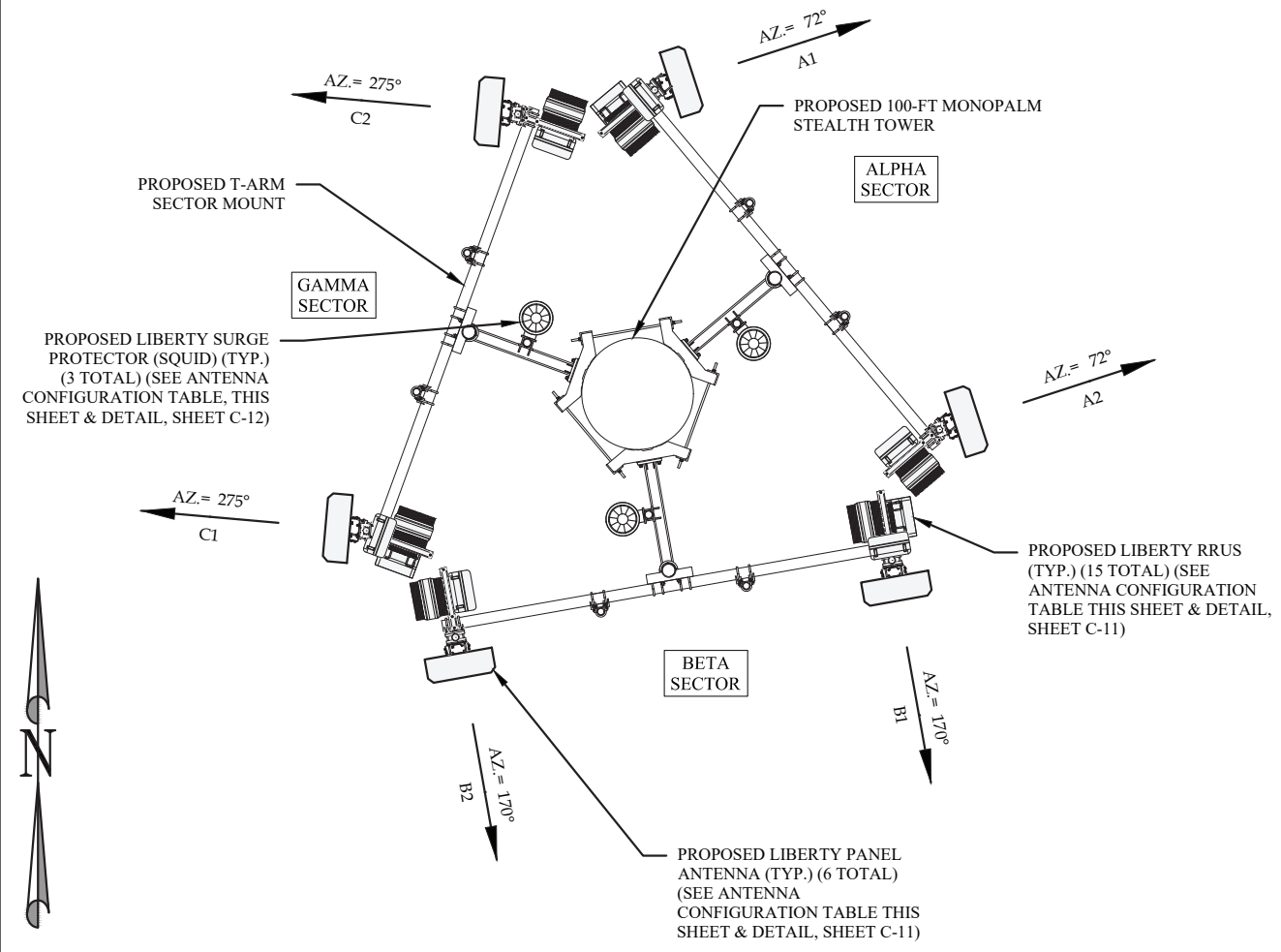


**TOWER PROFILE**  
NTS

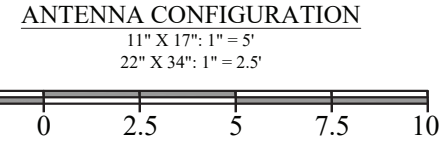


- NOTES:**
1. TOWER/ANTENNA MOUNT DESIGN BY OTHERS.
  2. PROPOSED CABLES TO BE MOUNTED INSIDE MONOPALM USING HOISTING GRIPS (PROVIDED BY TOWER MANUFACTURER).
  3. PROPOSED ANTENNAS SHALL BE PAINTED TO MATCH COLOR OF PROPOSED MONOPALM BRANCHES.

**NOTES**  
I. MONOPALM BRANCHES NOT SHOWN FOR CLARITY.



PROPOSED ANTENNA CONFIGURATION AND CABLE SCHEDULE								
SECTOR	RAD CL	AZIMUTH	POSITION	ANTENNA		RRUS (QTY.)	DC SURGE AND DISTRIBUTION (QTY.)	CABLES
				MANUFACTURER	MODEL			
ALPHA	97'	72°	A1	QUINTEL	QD66512-2	(1) ERICSSON 4449 B5/B12 (1) ERICSSON 4415 B30 (1) ERICSSON 4426 B66	(3) DC9-48-60-24-8C-EV	(3) 24 PAIR FIBER TRUNKS (9) 6AWG DC POWER TRUNKS
			A2	QUINTEL	QD66512-2	(1) ERICSSON 4478 B14 (1) ERICSSON 4460 B25/B66		
BETA	97'	170°	B1	QUINTEL	QD66512-2	(1) ERICSSON 4449 B5/B12 (1) ERICSSON 4415 B30 (1) ERICSSON 4426 B66		
			B2	QUINTEL	QD66512-2	(1) ERICSSON 4478 B14 (1) ERICSSON 4460 B25/B66		
GAMMA	97'	275°	G1	QUINTEL	QD66512-2	(1) ERICSSON 4449 B5/B12 (1) ERICSSON 4415 B30 (1) ERICSSON 4426 B66		
			G2	QUINTEL	QD66512-2	(1) ERICSSON 4478 B14 (1) ERICSSON 4460 B25/B66		



PREPARED FOR:

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INFRA TOWERS, LLC  
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ALEXANDRIA, VA 22314  
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CARRIER:

**LIBERTY LATIN AMERICA**

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0-26018-1B  
U.S. VIRGIN ISLANDS

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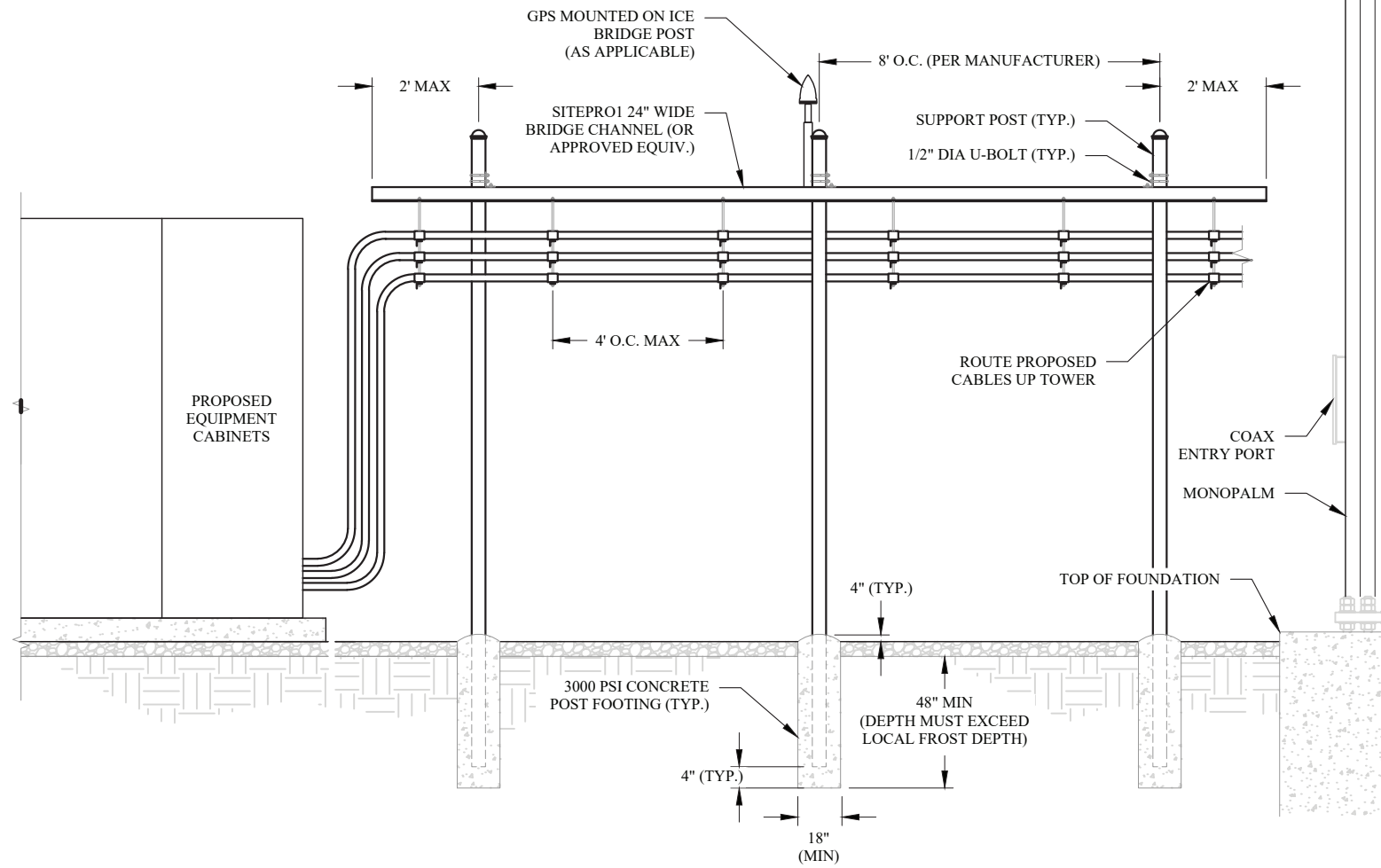
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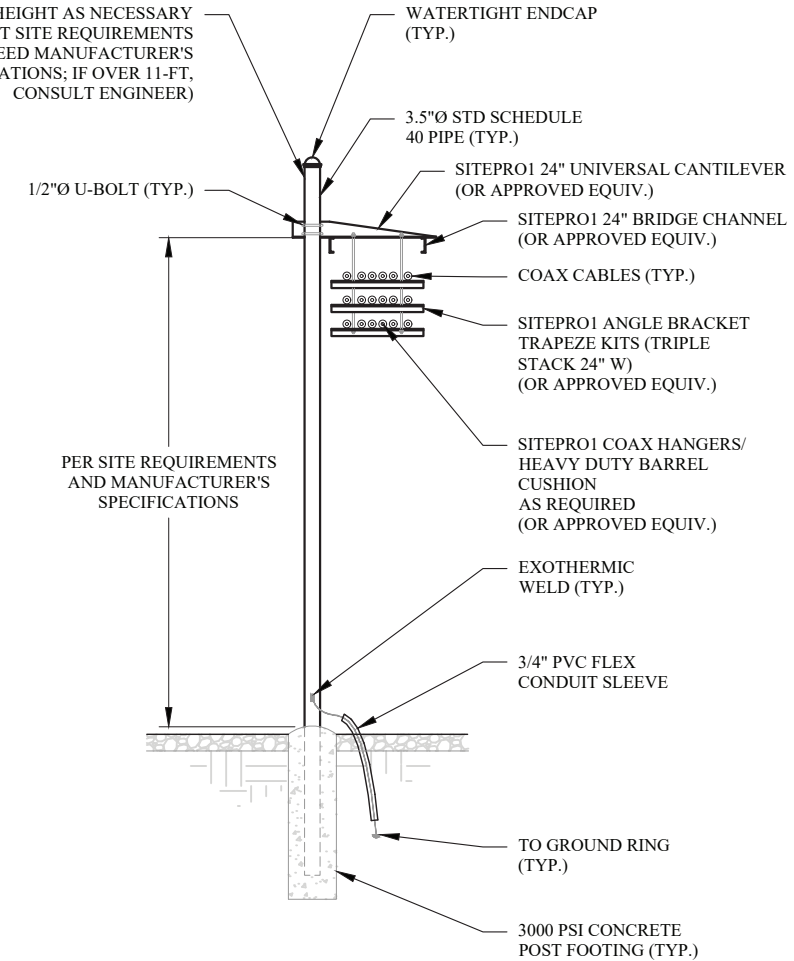
**SHEET TITLE**  
TOWER ELEVATION AND  
ANTENNA CONFIGURATION

**SHEET NUMBER**  
C-6

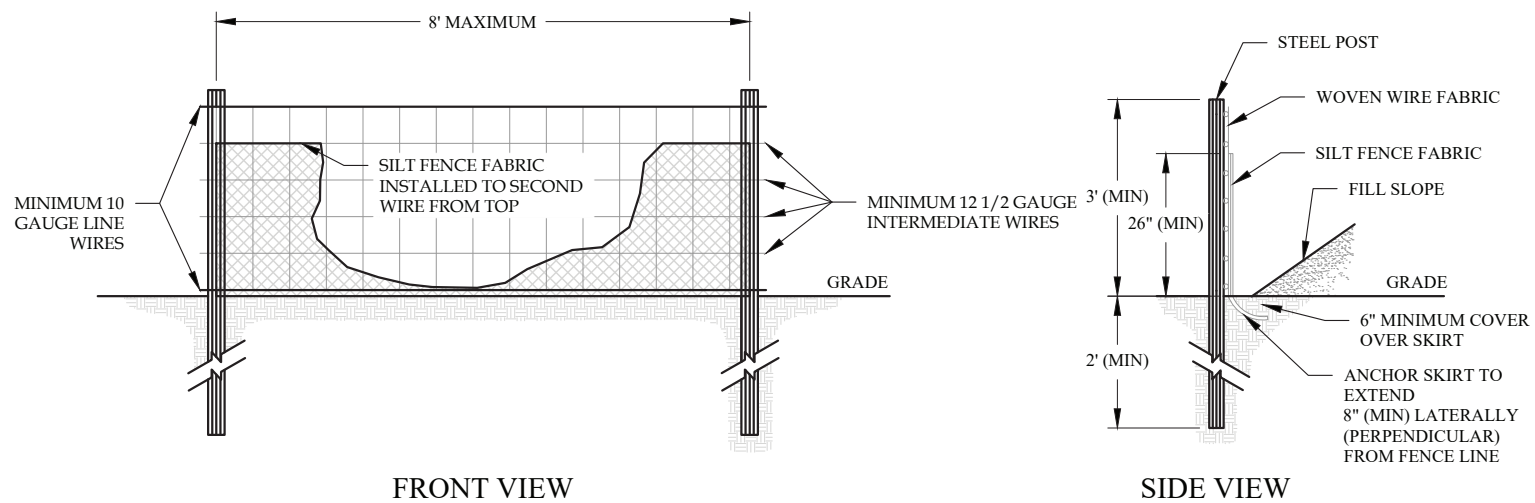
### ICE BRIDGE DETAIL



MODIFY HEIGHT AS NECESSARY TO MEET SITE REQUIREMENTS (DO NOT EXCEED MANUFACTURER'S RECOMMENDATIONS; IF OVER 11-FT, CONSULT ENGINEER)

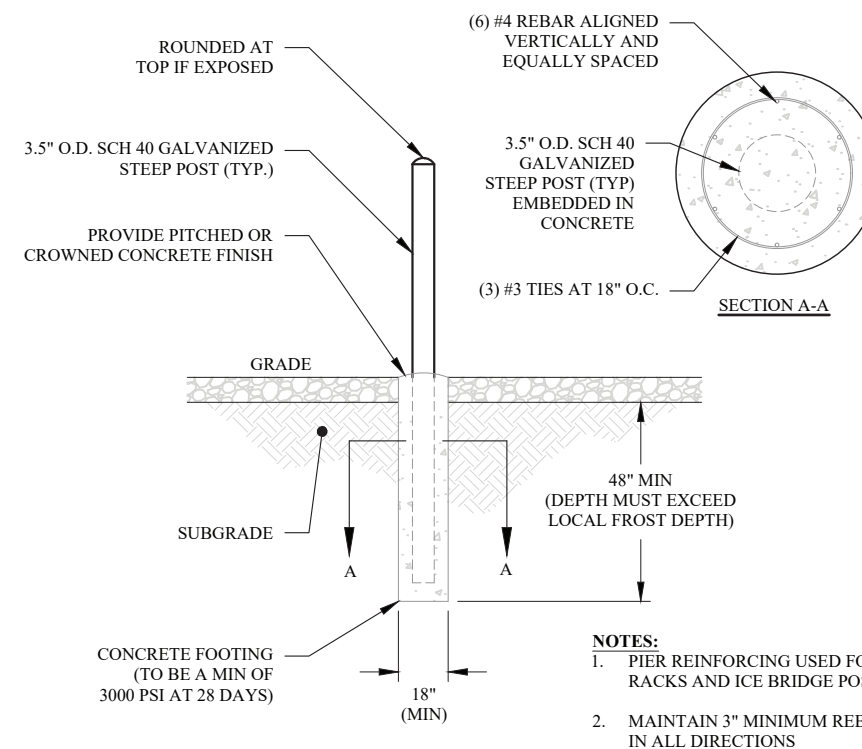


### TEMPORARY SILT FENCE



- NOTE:
- USE SILT FENCE ONLY WHEN DRAINAGE AREA DOES NOT EXCEED 1/4 ACRE AND NEVER IN AREAS OF CONCENTRATED FLOW.

### ICE BRIDGE POST/BOLLARD



PREPARED FOR:



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1800 DIAGONAL ROAD, STE 600  
ALEXANDRIA, VA 22314  
PHONE: (571) 336-1720

CARRIER:



PREPARED BY:



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4904 PROFESSIONAL COURT  
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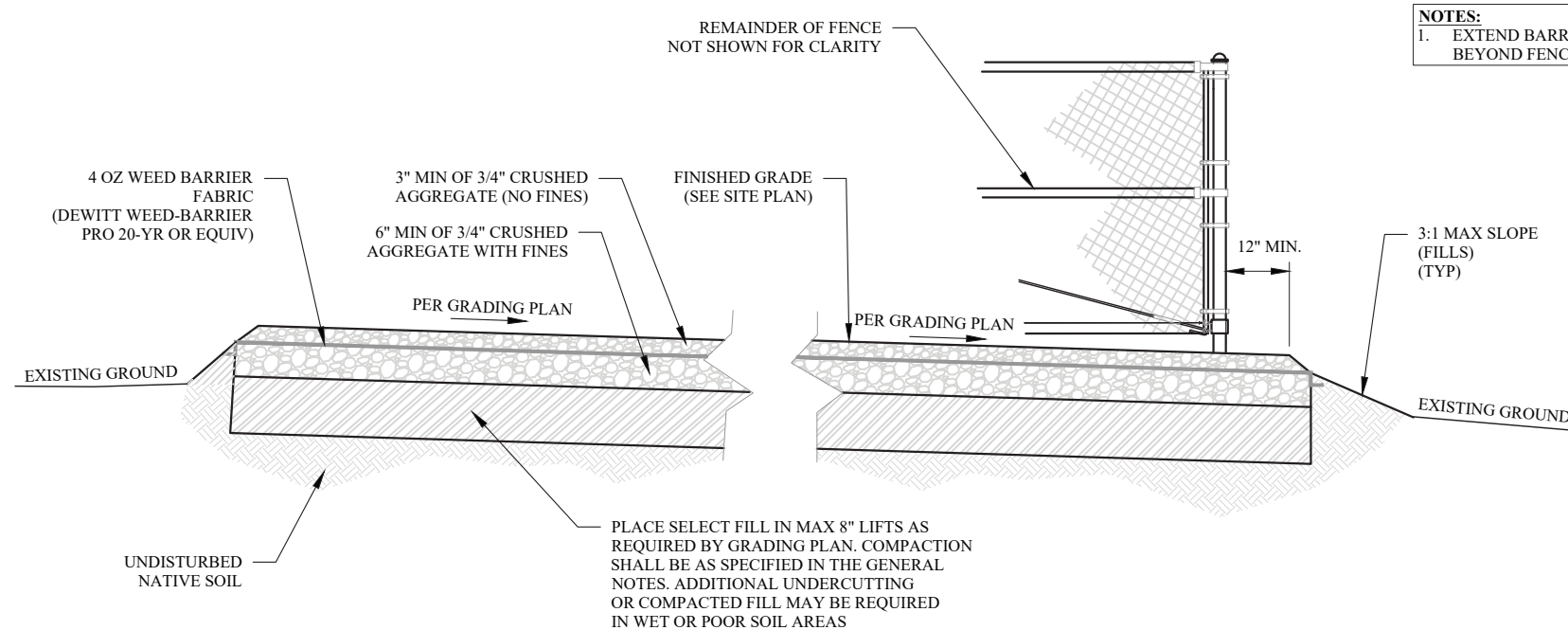
**SITE ADDRESS:**  
73 CLAIMONT  
CHRISTIANSTED, USVI 00820

**SITE ID:**  
VI020

**SHEET TITLE**  
CIVIL DETAILS  
(ICE BRIDGE & SILT FENCE)

**SHEET NUMBER**  
C-7

**COMPOUND SECTION**



**NOTES:**  
 1. EXTEND BARRIER & STONE 12" BEYOND FENCE ON ALL 4 SIDES.

**DETAIL NOT USED**

PREPARED FOR:



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 1800 DIAGONAL ROAD, STE 600  
 ALEXANDRIA, VA 22314  
 PHONE: (571) 336-1720

CARRIER:



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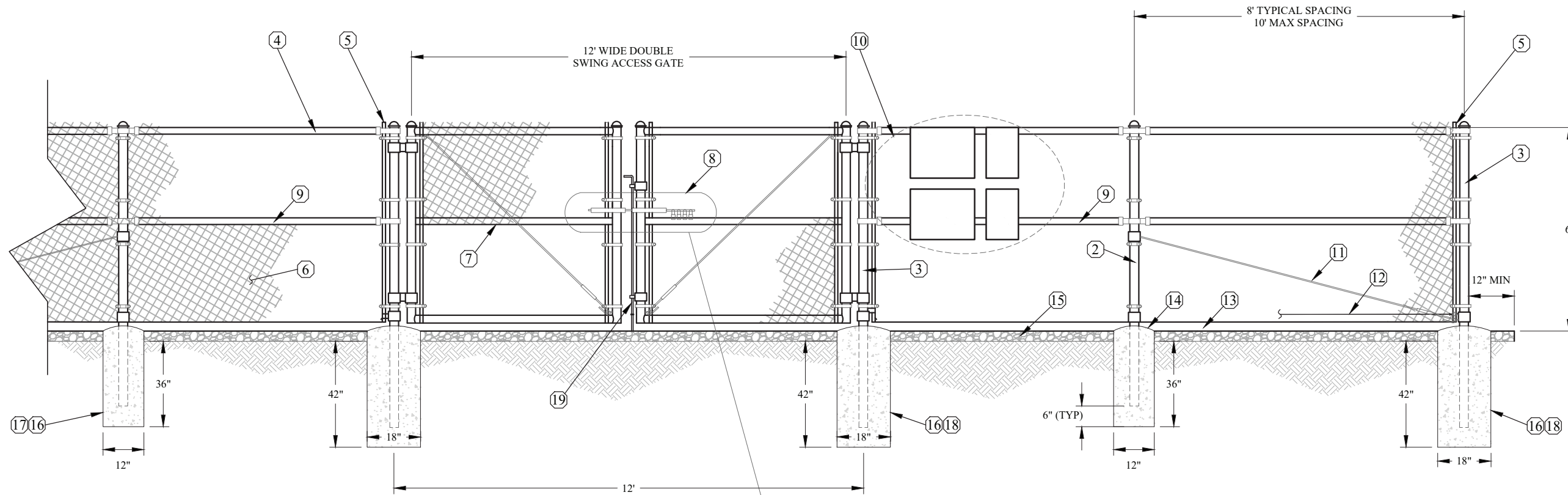
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**SITE ID:**  
 VI020

**SHEET TITLE**  
 CIVIL DETAILS  
 (COMPOUND SECTION)

**SHEET NUMBER**  
 C-8

# COMPOUND FENCE

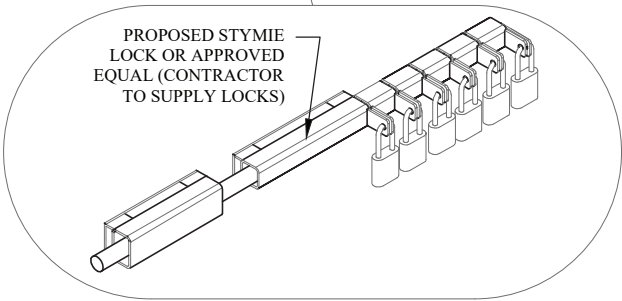


**KEYNOTES:**

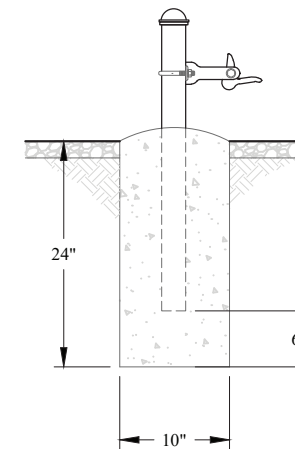
- ① NOT USED
- ② 2-1/2" NOMINAL GALVANIZED STEEL, SCHEDULE 40 INTERMEDIARY LINE POSTS (PER ASTM-F1083). LINE POSTS SHALL BE EQUALLY SPACED AT MAXIMUM 10' O.C.
- ③ 3" O.D. GALVANIZED STEEL SCHEDULE 40 CORNER AND GATE POSTS (PER ASTM-F1083). IF GATE LEAF WIDTH GREATER THAN OR EQUAL TO 10-FT OR IF FENCE FABRIC EXTENDED OVER 6-FT AND GATE LEAF WIDTH OVER 6-FT, GATE POST SHALL BE 4" O.D. GALVANIZED STEEL SCHEDULE 40 (PER ASTM-F1083).
- ④ 1-5/8" O.D. SCHEDULE 40 ROUND TOP/BRACE RAIL (PER ASTM-F1083)
- ⑤ STRETCHER BAR TO EXTEND FULL HEIGHT OF FENCE FABRIC; NOT LESS THAN 3/16" X 3/4" CROSS SECTION; PLACE ON ALL GATES AND POSTS
- ⑥ 9 GAUGE 2" x 2" FENCE FABRIC (TO CONFORM TO ASTM-A392)
- ⑦ GATE FRAME BRACE
- ⑧ STYMIE LOCK OR OTHER APPROVED MULTI-TENANT LOCKING DEVICE
- ⑨ 1-5/8" DIAMETER POST BRACE (AS REQUIRED)
- ⑩ GATE SIGNS (SEE DETAIL, SHEET C-14)
- ⑪ 3/8" DIAGONAL BRACE ROD WITH GALVANIZED STEEL TURNBUCKLE OR DIAGONAL THREADED ROD
- ⑫ 9 GAUGE ALUMINUM TIE WIRE. PROVIDE HOG RING FABRIC TIES SPACED 12" O.C. FOR POSTS AND GATES AND 24" O.C. FOR RAILS AND WIRE.
- ⑬ MAINTAIN A 1" MAXIMUM CLEARANCE FROM FINISHED GRADE
- ⑭ PROVIDE CROWNED/PITCHED FINISH FOR FENCE POST PIER FOUNDATIONS
- ⑮ COMPOUND SECTION AND MATERIALS (SEE DETAIL, SHEET C-5)  
CONCRETE PIER FOUNDATION; TO ACHIEVE A MINIMUM STRENGTH OF 3000 PSI AT 28 DAYS. CONCRETE DEPTH TO BE AS SPECIFIED HEREIN, AS SPECIFIED BY MANUFACTURER, OR A MINIMUM OF 6" BELOW FROST LINE; WHICHEVER IS GREATER
- ⑯ LINE POST CONCRETE PIER FOUNDATION
- ⑰ CORNER/GATE POST CONCRETE PIER FOUNDATION
- ⑱ COMMERCIAL GRADE DROP ROD AND CENTERSTOP (HOOVER FENCE OR EQUIV)

**NOTES:**

1. FENCE DESIGN AND INSTALLATION NOTES ARE INDUSTRY STANDARDS AND/OR MINIMUM REQUIREMENTS AND ARE FOR GENERAL GUIDANCE ONLY. REFER TO MANUFACTURER'S RECOMMENDATIONS OF THE SPECIFIED PRODUCT AND APPLICABLE GOVERNING CODES FOR FULL INSTALLATION DETAILS. IN THE EVENT OF DISCREPANCIES, MANUFACTURER'S RECOMMENDATIONS OR APPLICABLE CODE SHALL GOVERN, WHICHEVER IS MORE STRINGENT.
2. ALL FENCING TO BE INSTALLED PER ASTM F-567. ALL SWING GATES TO BE INSTALLED PER ASTM F-900.
3. POST & GATE PIPE SIZES ARE INDUSTRY STANDARDS. ALL PIPE TO BE GALVANIZED (HOT DIP, ASTM A120 GRADE "A" STEEL). ALL GATE FRAMES SHALL BE WELDED. ALL WELDINGS SHALL BE COATED WITH (3) COATS OF GOLD GALV. (OR EQUAL). ALL OPEN POSTS SHALL HAVE END-CAPS.
4. ALL SIGNS MUST BE MOUNTED ON INSIDE OF FENCE FABRIC USING GALVANIZED HOG-RING WIRE.
5. ALL SIGNS AND SIGN PLACEMENT SHALL ADHERE TO THE REQUIREMENTS OF OSHA 1910.145 AND 1910.200 AND ALL APPLICABLE FCC CODES
6. DROP ROD AND CENTERSTOP REQUIRED FOR GATE. GENERAL CONTRACTOR RESPONSIBLE FOR GATE LOCK.



## GATE KEEPER



PREPARED FOR:



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1800 DIAGONAL ROAD, STE 600  
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CARRIER:



**LIBERTY**  
LATIN AMERICA

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CLAIRMONT

**SITE ADDRESS:**

73 CLAIRMONT  
CHRISTIANSTED, USVI 00820

**SITE ID:**

VI020

**SHEET TITLE**

CIVIL DETAILS  
(COMPOUND FENCE)

**SHEET NUMBER**

C-9

## PERMANENT SEEDING SPECIFICATION

### SEEDING SCHEDULE

1. SHAPE ALL AREAS TO TYPICAL CROSS SECTION AND DRESS SAME AS REQUIRED.
2. SPREAD THE TOPSOIL EVENLY OVER THE AREA. THE TOPSOIL SHOULD BE FERTILE, FREE OF LITTER, ROCKS, AND OBJECTIONABLE WEEDS, AND CONTAIN NO TOXIC SUBSTANCES. A PH OF 5.0 TO 7.5 IS MOST DESIRABLE, AND SOLUBLE SALTS SHOULD NOT EXCEED 500 PARTS PER MILLION (PPM). ORDINARILY, A TOPSOIL DEPTH OF 3 TO 6 INCHES, AFTER SETTLING, IS CONSIDERED ADEQUATE FOR ESTABLISHING GRASSES. ON UN-GRADED AREAS WHERE THE EXPOSED SOIL IS UNSUITABLE FOR GROWING OF VEGETATION, SPREAD A 2- TO 6-INCH LAYER OF GOOD TOPSOIL BEFORE PLANTING.
3. SPREAD FERTILIZER AND PREPARE SEED BED (SEE GENERAL NOTES, SHEET GN-1). THE REQUIRED FERTILIZER AND AGRICULTURAL LIMESTONE SHALL BE SPREAD UNIFORMLY OVER THE AREA TO BE TOP SEEDED. AFTER THE FERTILIZER AND LIMESTONE HAS BEEN SPREAD, THE AREA SHALL BE THOROUGHLY PULVERIZED AND THE FERTILIZER INCORPORATED IN THE TOP FOUR (4) INCHES OF THE GRADED AREAS.
4. FERTILIZER AND AGRICULTURAL LIMESTONE SHALL BE APPLIED AT THE FOLLOWING RATES:  
COMBINATION FERTILIZER (13-13-13) - 800 LBS. PER ACRE  
AGRICULTURAL LIMESTONE - 2 TONS PER ACRE
5. SEEDING AND/OR SODDING IS REQUIRED ON DISTURBED AREAS. ALL AREAS SHOULD RECEIVE SEEDING PER TABLE B.2:

**Table B.2.** Suitable grass species for seeding and planting in the Caribbean (USDA-SCS, 1990b).

Plant Species	Propagation	Adaptation
<i>-----Widely Adapted Grasses-----</i>		
Carpetgrass	8 lbs. per acre	Wet and shaded areas
Common bermuda grass	80 lbs. per acre	Throughout the island
Guinea grass	30 pounds per acre or vegetative	Dry areas & alkaline soils; shady areas; Intolerant to wet and acid soils
Paragrass	Vegetative	Throughout the island, especially wetlands and other wet areas
Pangolagrass	Vegetative	Throughout islands, except dry areas
Vetiver	Vegetative	Especially adapted to granitic soils
<i>-----Grasses Especially Adapted to Dry Sites-----</i>		
Angleton grass	Natural seeding	All dry sites
Buffel grass	4 lbs. per acre	All dry sites
<i>-----Grasses Especially Adapted to Saline Sites-----</i>		
Beach Grass (Sporobolus virginicus)	Vegetative	

6. FOR AREAS WHERE EROSION CONTROL MATTING IS NOT SPECIFIED, ALL AREAS SHALL BE COVERED WITH A BALED STRAW MULCH (OAT, WHEAT, RICE, BARLEY, ETC.) AT THE RATE OF 1.5 TO 2.0 TONS PER ACRE. THE MULCH SHALL BE DRY AND FREE OF WEEDS. THE MULCH SHALL BE SPREAD AND ANCHORED IN SUCH A MANNER AS TO GIVE A UNIFORM COVER OVER THE ENTIRE AREA.
7. SIXTY (60) DAYS AFTER THE GRASS HAS BEEN PLANTED, VEGETATED AREAS SHALL RECEIVE ADDITIONAL FERTILIZER.
8. THE CONTRACTOR SHALL MAINTAIN THE GRASSED AREAS IN A SATISFACTORY MANNER UNTIL A GOOD GROWTH IS ASSURED AND FINAL ACCEPTANCE IS MADE BY THE GOVERNING AUTHORITY. MAINTENANCE WORK SHALL INCLUDE WATERING (WHEN NECESSARY), RESTORING/ REPLACING GRASS, FILLING WASHES AND MOWING, IF NECESSARY.
9. WHEN GRASS OR GRASSES HAVE OVERLAPPING GROWTH, THE AREA SHALL BE CONSIDERED TO HAVE SATISFACTORY GROWTH.

### GRADING NOTES:

1. ALL CUT SLOPES SHALL HAVE A MAXIMUM GRADE OF 2H:1V. ALL FILL SLOPES SHOULD HAVE A MAXIMUM GRADE OF 3H:1V, UNLESS OTHERWISE INDICATED.
2. SEE GENERAL NOTES SHEET (GN-1) FOR ADDITIONAL GRADING NOTES.

## CONSTRUCTION SEQUENCE

### CONSTRUCTION SEQUENCE

1. PROJECT STAKEHOLDERS TO CONDUCT PRE-CONSTRUCTION MEETINGS AS REQUIRED BY THE GOVERNING AUTHORITY
2. INSTALL SILT FENCE (AS SHOWN ON THE PLANS AND DOWNSTREAM OF ALL EXCAVATED AREAS) AND/OR SOIL STOCKPILING AREAS PRIOR TO THE COMMENCEMENT OF GRADING
3. CLEAR AND GRUB REMAINING AREAS AND PROCEED WITH ROUGH GRADING (INCLUDING DITCHES AND SWALES); INSTALL ADDITIONAL EROSION CONTROL MEASURES AFTER GRADING BEGINS AS REQUIRED
4. INSTALL ON-SITE UTILITIES AND TEMPORARY STABILIZATION AS SHOWN ON PLANS
5. CONSTRUCT TOWER FOUNDATION, COMMUNICATION FACILITIES, AND RETAINING WALL AS APPLICABLE
6. FINISH GRADE PROPOSED ACCESS AND TOWER COMPOUND
7. STABILIZE GRAVEL AND PAVED AREAS PER PLANS, TOPSOIL AND PERMANENTLY SEED DENUDED CUT/FILL SLOPES AND INSTALL EROSION CONTROL MATTING, DITCH LINING, RIP-RAP APRONS, ETC. AS SPECIFIED ON PLANS (PERMANENT COVER SHOULD BE INSTALLED WITHIN 7-DAYS AFTER FINISHED GRADES HAVE BEEN ESTABLISHED)
8. MAINTAIN PERIMETER SILT FENCE AND OTHER PERIMETER SOIL EROSION CONTROL MEASURES AS APPLICABLE UNTIL PERMANENT GROUND COVER IS ESTABLISHED
9. REMOVE ANY EROSION CONTROL MEASURES FROM AREAS THAT HAVE BEEN PERMANENTLY STABILIZED AND STABILIZE AREAS OF THE DEVICE(S) REMOVAL

## EROSION AND SEDIMENT CONTROL NOTES

1. THE DENUDED AREA IS 4,192 SQUARE FEET.
2. THE RECEIVING WATERCOURSE IS SALT RIVER.
3. THE PROJECT AREA IS NOT LOCATED IN A FEMA SPECIAL FLOOD HAZARD AREA PER FIRM #7800000059G WITH EFFECTIVE DATE APRIL 16, 2017.
4. CUT AND FILL SLOPES SHOULD BE STABILIZED WITHIN 14 DAYS DURING ANY PHASE OF GRADING
5. STREETS ADJACENT TO THE PROJECT SHALL BE KEPT CLEAN AT ALL TIMES FROM SEDIMENT OR OTHER CONSTRUCTION GENERATED MATERIAL OR A WASH STATION WILL BE REQUIRED
6. THE CONTRACTOR SHALL COMPLY WITH ALL GOVERNING REGULATIONS REGARDING EROSION AND SEDIMENT CONTROL FOR THE AGENCY HAVING JURISDICTION OVER CLEARING AND GRADING PROCEDURES. UTILIZE BEST MANAGEMENT PRACTICES (BMPS) DESCRIBED IN THE GOVERNING AGENCY'S OR APPLICABLE STATE'S CODE IN ORDER TO BOTH PREVENT/MINIMIZE CONCENTRATED FLOWS THROUGH OR ACROSS UNSTABILIZED/DENUDED AREAS AND PREVENT/MINIMIZE SEDIMENT LADEN STORMWATER RUNOFF FROM LEAVING THE CONSTRUCTION SITE. SPECIFIC BMP EXAMPLES INCLUDE SILT FENCE, CONSTRUCTION ENTRANCE(S), PERIMETER DIVERSION SWALES, INLET PROTECTION, AND OTHER APPLICABLE MEASURES.
7. CONTRACTOR AND/OR OWNER SHALL BE RESPONSIBLE FOR THE IMPLEMENTATION AND MAINTENANCE OF ALL EROSION AND SEDIMENT CONTROL DEVICES SPECIFIED HEREIN AND ANY ADDITIONAL CONTROLS THAT MAY BECOME NECESSARY IN ORDER TO ENSURE THE PROTECTION OF ADJACENT PROPERTIES AND WATERWAYS. ALL TEMPORARY DEVICES SHALL BE APPROPRIATELY MAINTAINED UNTIL ALL EARTH DISTURBING ACTIVITIES HAVE CEASED AND THE PROJECT IS STABILIZED AND APPROVED.
8. EROSION CONTROL MEASURES SHALL BE CHECKED DAILY AND IMMEDIATELY FOLLOWING ANY RAINFALL EVENTS. ANY NOTED DEFICIENCIES WILL BE CORRECTED IMMEDIATELY (NO LATER THAN THE END OF EACH DAY). IMMEDIATELY UPON THE DISCOVERY OF UNFORESEEN CIRCUMSTANCES THAT POSE THE POTENTIAL FOR ACCELERATED EROSION AND/OR SEDIMENT POLLUTION, THE CONTRACTOR SHALL IMPLEMENT APPROPRIATE BMPS TO MINIMIZE THE POTENTIAL FOR EROSION AND SEDIMENTATION.
9. ALL DENUDED CUT/FILL SLOPES STEEPER THAN OR EQUAL TO 3:1 SHALL BE PROTECTED WITH NORTH AMERICAN GREEN SC250 OR EQUIVALENT UNLESS ALTERNATIVE SLOPE PROTECTION MEASURES ARE APPROVED
10. ALL CONSTRUCTION TRAFFIC SHALL ENTER AND EXIT THE SITE VIA THE CONSTRUCTION ENTRANCES
11. ALL DENUDED AREAS NOT DESIGNATED FOR PROTECTION BY STRUCTURAL STABILIZATION MEASURES OR EROSION CONTROL BLANKETS SHALL BE SEEDED & MULCHED IMMEDIATELY UPON REACHING GRADE AND IN ACCORDANCE WITH THE GOVERNING JURISDICTION'S REQUIREMENTS
12. FOR ANY DENUDED AREA TO BE CONSIDERED PERMANENTLY STABILIZED, THE DENUDED AREA SHOULD BE UNIFORMLY COVERED IN PERENNIAL VEGETATION WITH A DENSITY OF 70% OR GREATER, OR COVERED IN OTHER NON-VEGETATIVE MATERIAL WITH A DENSITY SUFFICIENT TO RESIST ACCELERATED EROSION

PREPARED FOR:



INFRA TOWERS, LLC  
1800 DIAGONAL ROAD, STE 600  
ALEXANDRIA, VA 22314  
PHONE: (571) 336-1720

CARRIER:



PREPARED BY:



DELTA OAKS GROUP  
4904 PROFESSIONAL COURT  
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MICHAEL LLOYD LASSITER, P.E. 10/14/22  
USVI LICENSE NO. #0-26018-1B

DRAWN BY: JL  
CHECKED BY: BJW  
PROJECT NO: AES22-12323

SUBMITTALS			
DATE	DESCRIPTION	REV	ISSUED BY
05/12/22	PRELIMINARY	A	JL
6/17/22	PRELIMINARY	B	JL
7/06/22	FOR CONSTRUCTION	0	JL
10/14/22	CLIENT COMMENT	1	JL
11/11/22	CLIENT COMMENT	2	JL
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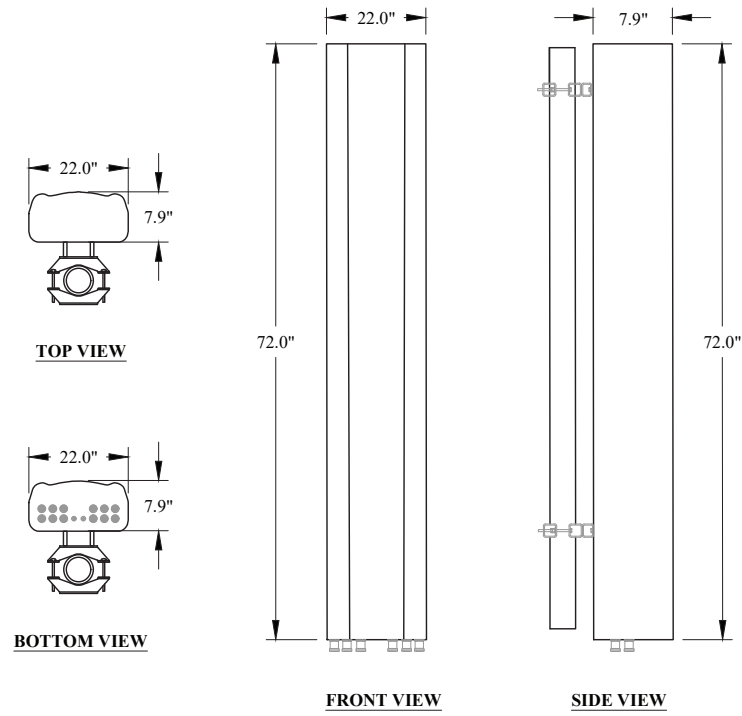
**SITE ADDRESS:**  
73 CLAIRMONT  
CHRISTIANSTED, USVI 00820

**SITE ID:**  
VI020

**SHEET TITLE**  
CIVIL DETAILS  
(EROSION CONTROL NOTES)

**SHEET NUMBER**  
C-10

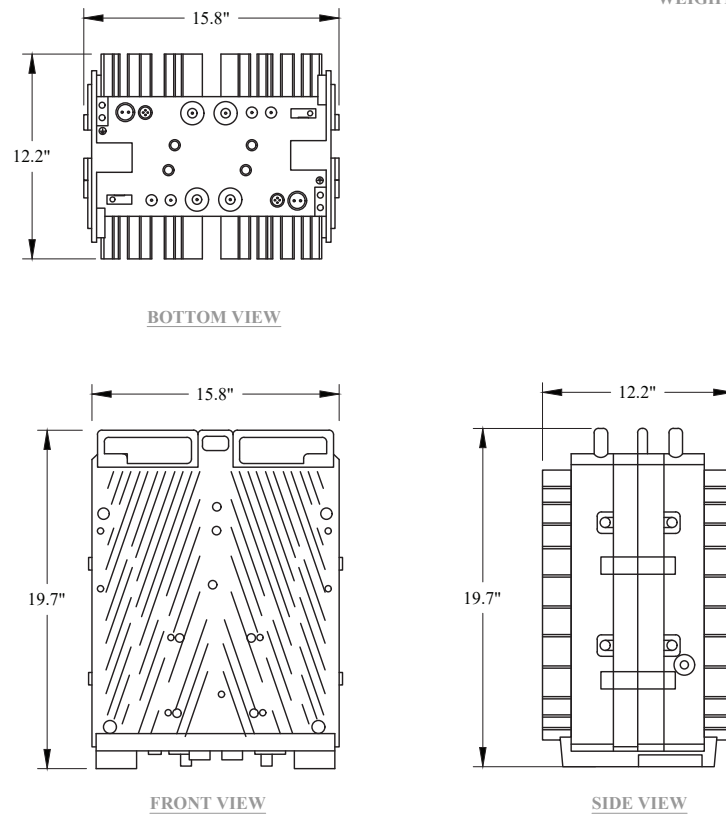
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**QINTEL QD66512-2 ANTENNA DETAIL**

NTS

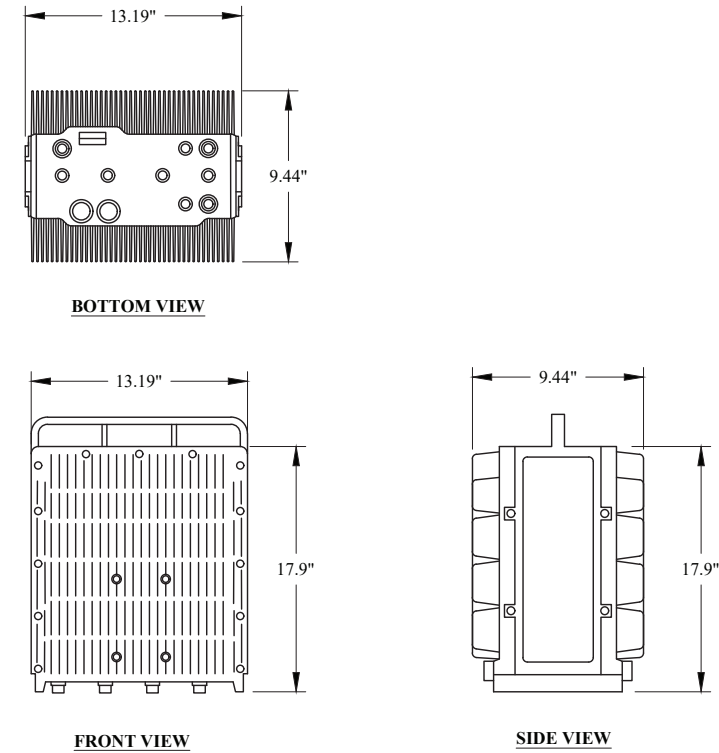
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**ERICSSON RRUS-4460 B25/B66 RADIO DETAIL**

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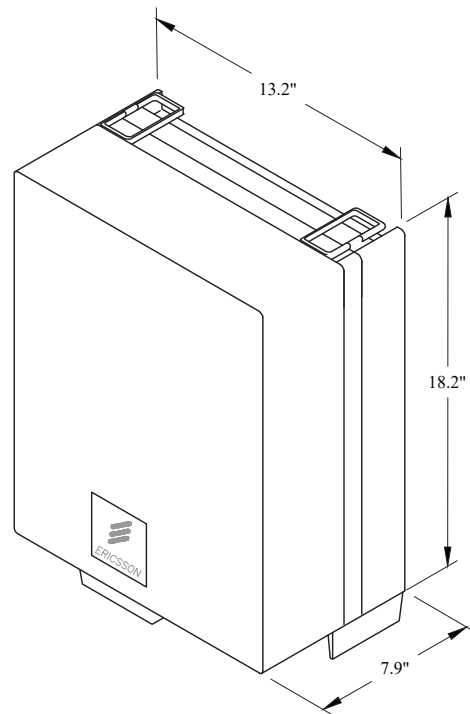
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**ERICSSON RRUS-4449 B5/B12 RADIO DETAIL**

NTS

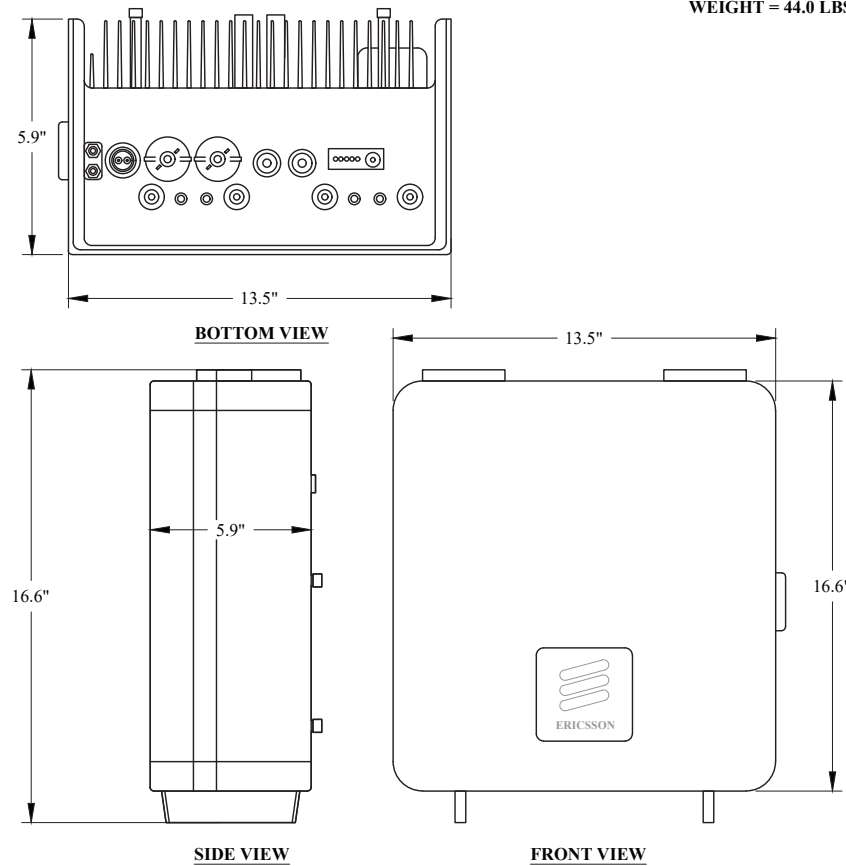
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**ERICSSON RRUS-4478 B14 RADIO DETAIL**

NTS

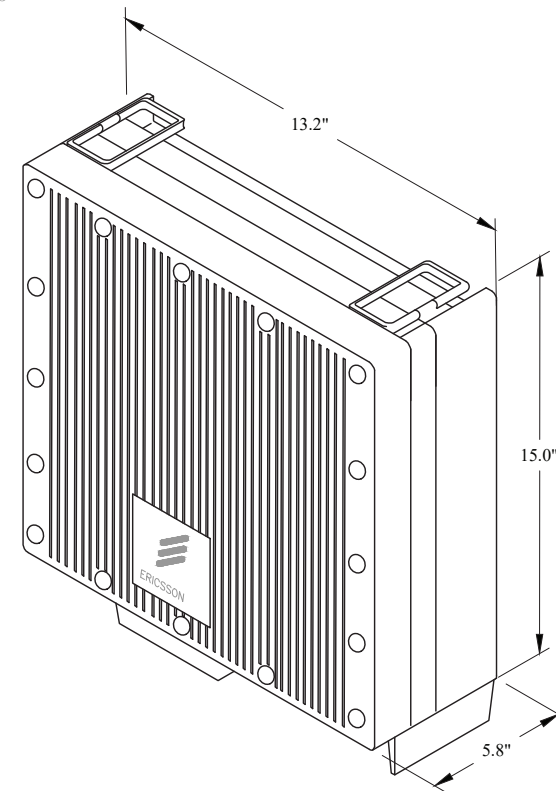
WEIGHT = 44.0 LBS



**ERICSSON RRUS-4415 B30 RADIO DETAIL**

NTS

WEIGHT = 48.4 LBS



**ERICSSON RRUS-4426 B66 RADIO DETAIL**

NTS

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CARRIER:



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MICHAEL LLOYD LASSITER, P.E. 10/14/22  
USVI LICENSE NO. #0-26018-1B

DRAWN BY: JL  
CHECKED BY: BJW  
PROJECT NO: AES22-12323

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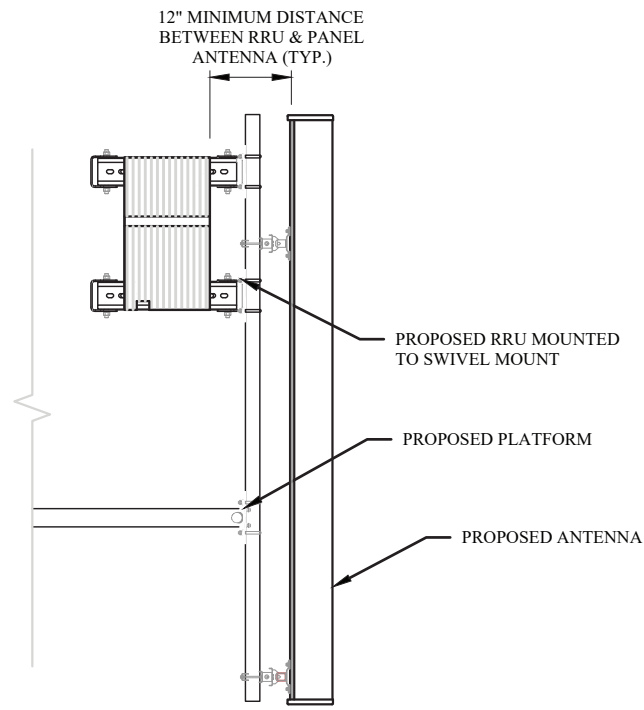
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73 CLAIRMONT  
CHRISTIANSTED, USVI 00820

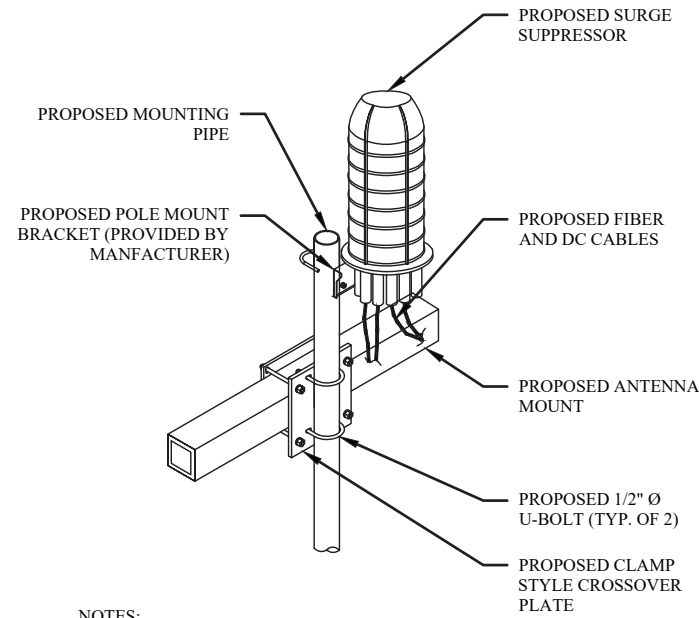
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VI020

**SHEET TITLE**  
ANTENNA, RRU & EQUIPMENT  
SPECIFICATIONS

**SHEET NUMBER**  
C-11

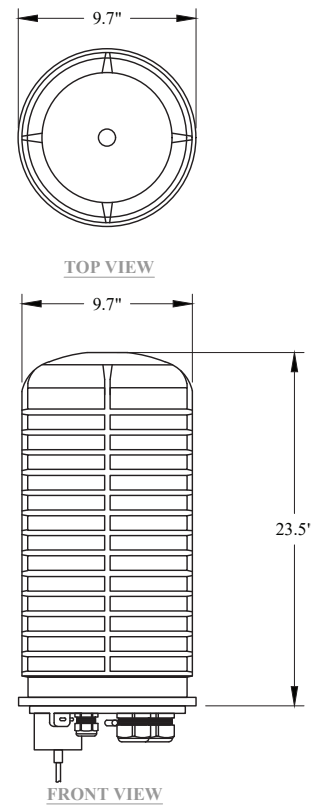


**RRU INSTALLATION DETAIL**  
NTS



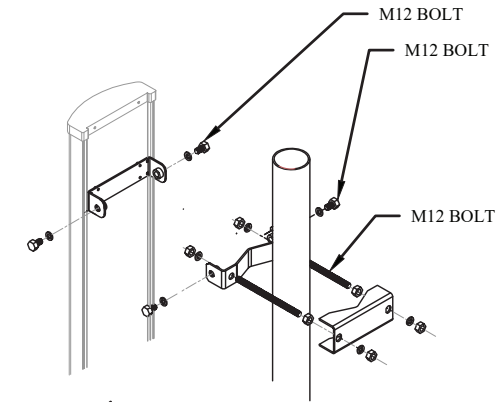
**NOTES:**  
1. UNIT SHALL BE MOUNTED AS PER MANUFACTURER'S RECOMMENDATIONS.  
2. CONTRACTOR SHALL TIGHTEN ALL BOLTS TO A "SNUG TIGHT" CONDITION AS DEFINED BY AISC.  
3. CONTRACTOR SHALL INSTALL RAYCAP DISTRIBUTION UNIT WITHIN 15 FEET FROM ALL RRU'S.

**SURGE MOUNTING DETAIL**  
NTS

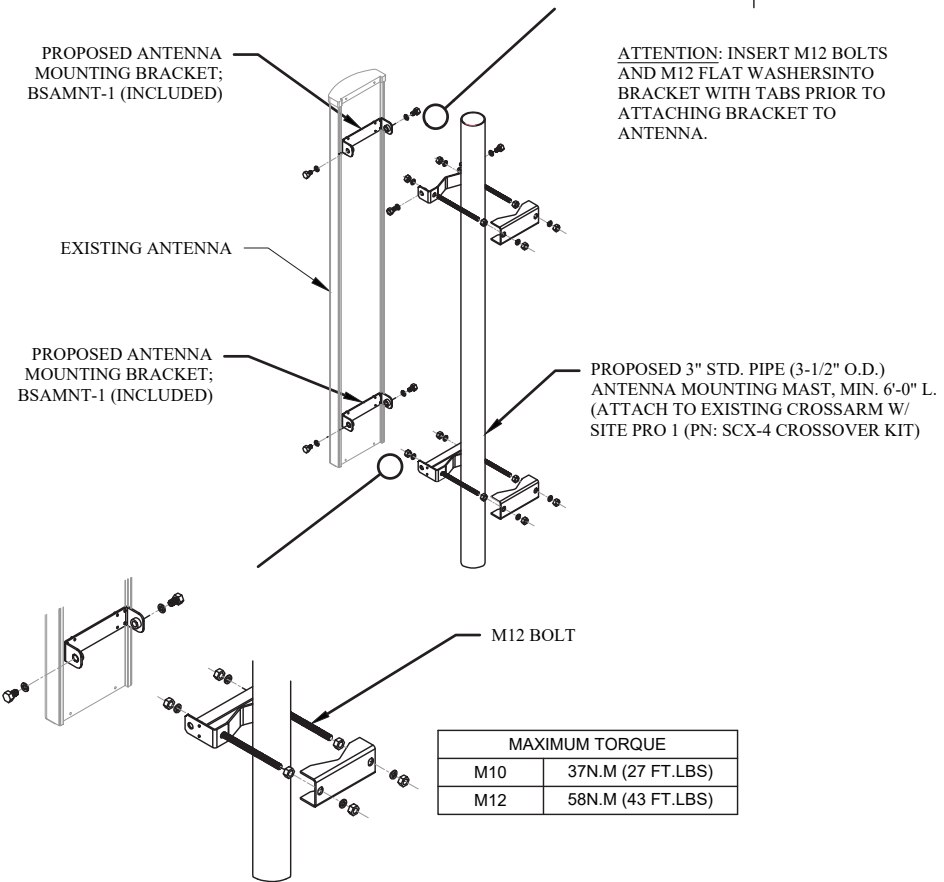


**RAYCAP DC9-48-60-24-8C-EV**  
**DETAIL**  
NTS

MAXIMUM TORQUE	
M8	15N.M (20 FT.LBS)
M10	37N.M (27 FT.LBS)
M12	58N.M (43 FT.LBS)

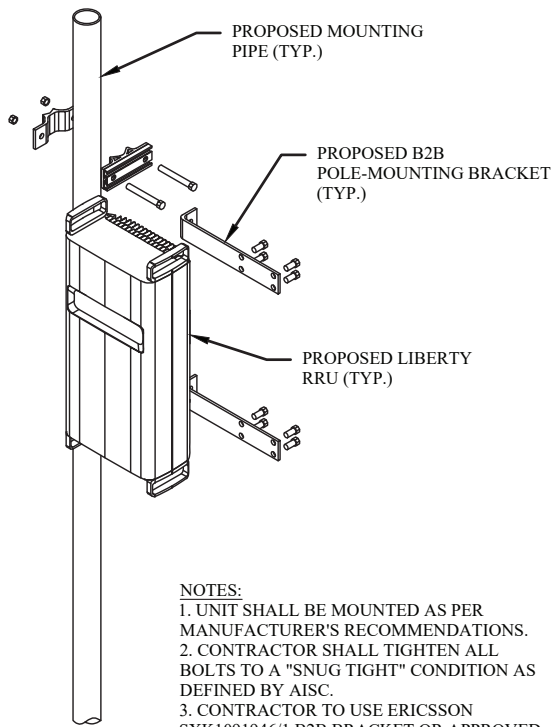


**ATTENTION:** INSERT M12 BOLTS AND M12 FLAT WASHERS INTO BRACKET WITH TABS PRIOR TO ATTACHING BRACKET TO ANTENNA.



MAXIMUM TORQUE	
M10	37N.M (27 FT.LBS)
M12	58N.M (43 FT.LBS)

**ANTENNA MOUNTING DETAIL**  
NTS



**NOTES:**  
1. UNIT SHALL BE MOUNTED AS PER MANUFACTURER'S RECOMMENDATIONS.  
2. CONTRACTOR SHALL TIGHTEN ALL BOLTS TO A "SNUG TIGHT" CONDITION AS DEFINED BY AISC.  
3. CONTRACTOR TO USE ERICSSON SXX1091946/1 B2B BRACKET OR APPROVED EQUAL.

**RRU MOUNTING DETAIL**  
NTS

PREPARED FOR:



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1800 DIAGONAL ROAD, STE 600  
ALEXANDRIA, VA 22314  
PHONE: (571) 336-1720

CARRIER:



PREPARED BY:



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MICHAEL LLOYD LASSITER, P.E. 10/14/22  
USVI LICENSE NO. #0-26018-1B

DRAWN BY: JL  
CHECKED BY: BJW  
PROJECT NO: AES22-12323

SUBMITTALS			
DATE	DESCRIPTION	REV	ISSUED BY
05/12/22	PRELIMINARY	A	JL
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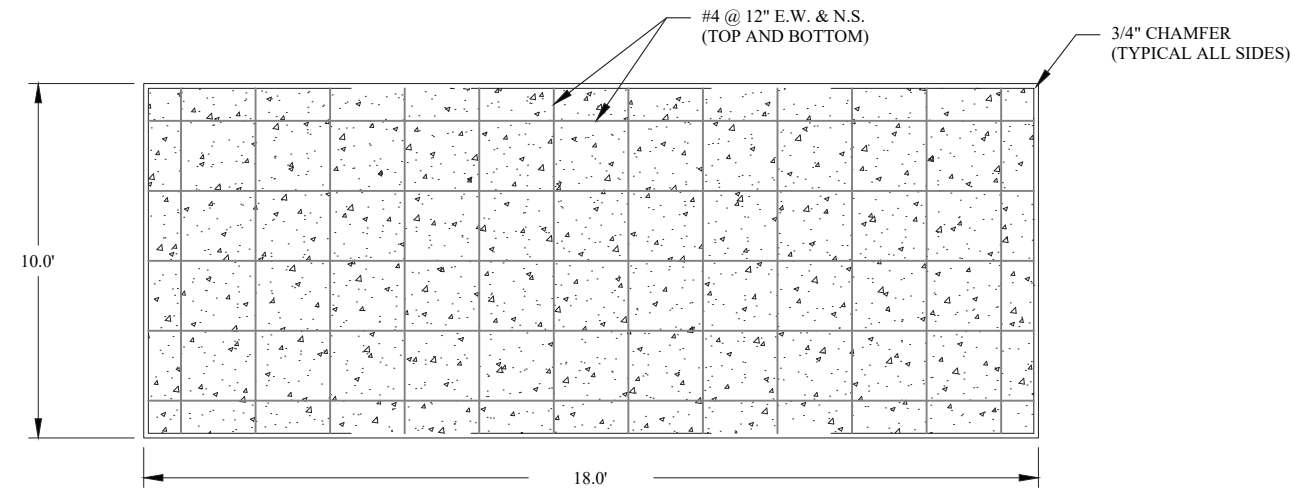
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VI020

**SHEET TITLE**  
CONSTRUCTION DETAILS

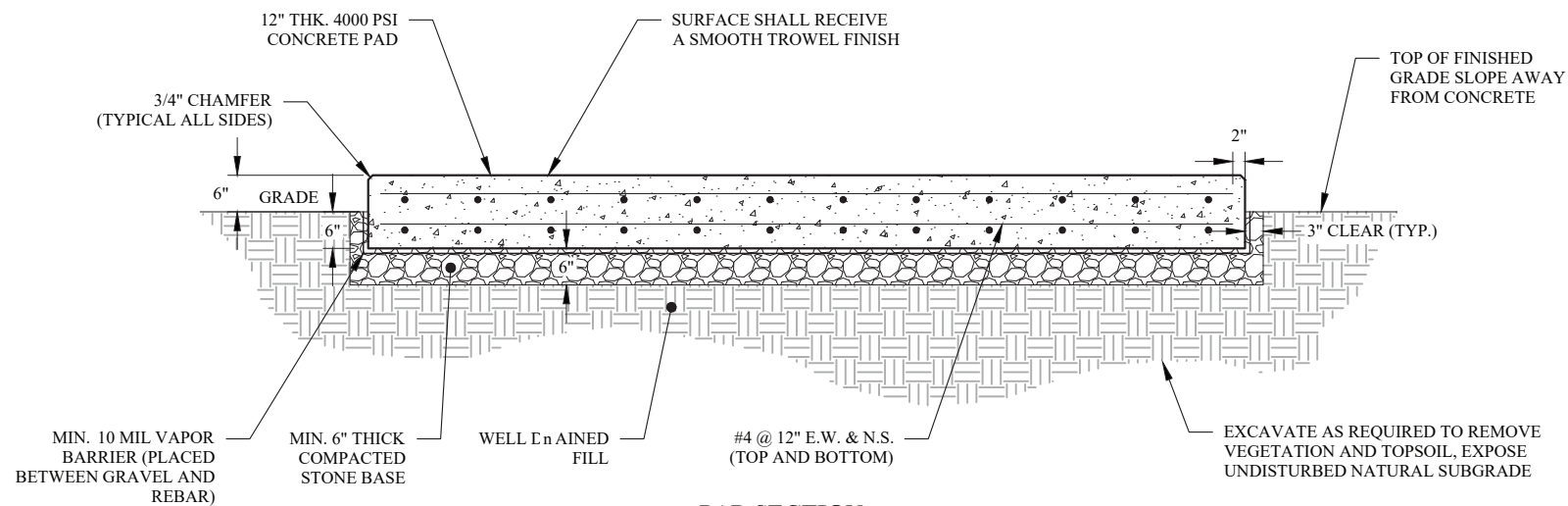
**SHEET NUMBER**  
C-12

# CONCRETE EQUIPMENT PAD

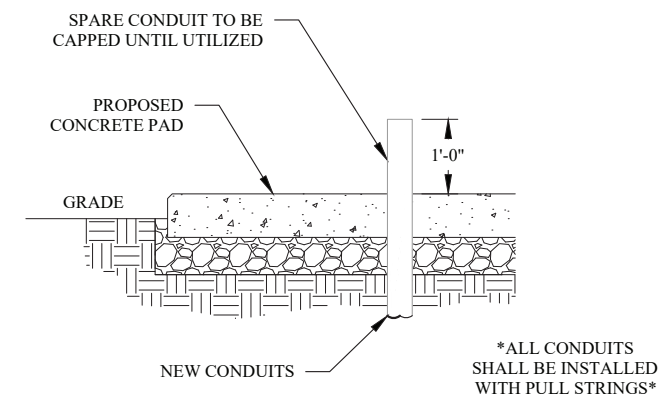
NTS



**PLAN**



**PAD SECTION**



**CONDUIT PENETRATION DETAIL**  
NTS

PREPARED FOR:



INFRA TOWERS, LLC  
1800 DIAGONAL ROAD, STE 600  
ALEXANDRIA, VA 22314  
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CARRIER:



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MICHAEL LLOYD LASSITER, P.E. 10/14/22  
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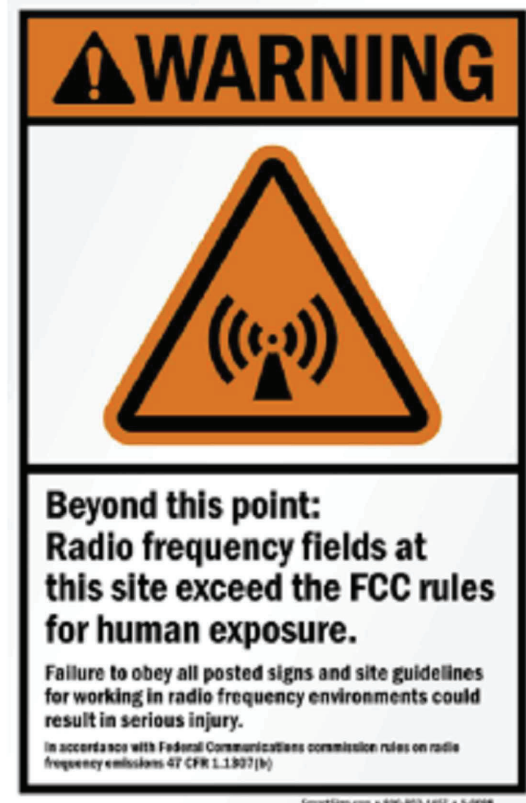
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**SITE ID:**  
VI020

**SHEET TITLE**  
CONSTRUCTION DETAILS

**SHEET NUMBER**  
C-13





1'-00"

8 1/2"



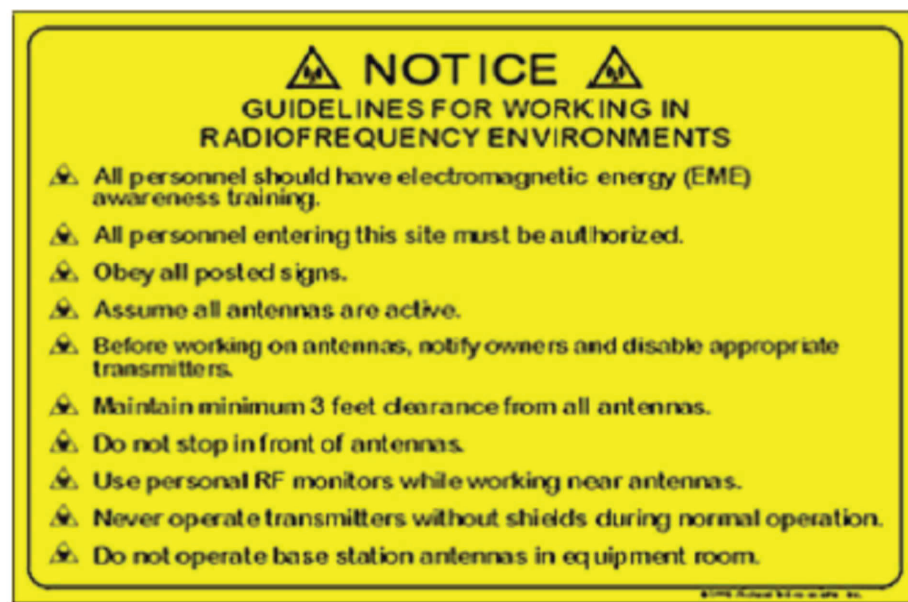
1'-00"

8"



1'-00"

18"



8 1/2"

11 1/2"

- NOTES:**
- ALL SIGNS TO BE HUNG ON FENCE USING HOG RINGS OR ALUMINUM FENCE TIES, ZIP TIES OR REBAR WIRE WILL NOT BE ACCEPTABLE.
  - THE RED WARNING SIGN SHALL BE PLACED ON THE TOWER IDEALLY IN A CONSPICUOUS PLACE NEAR THE BASE.

**TYPICAL SIGNAGE**

PREPARED FOR:

**INFRA TOWERS**  
 INFRA TOWERS, LLC  
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 ALEXANDRIA, VA 22314  
 PHONE: (571) 336-1720

CARRIER:

**LIBERTY LATIN AMERICA**

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*Michael Lloyd Lassiter*

**PROFESSIONAL ENGINEER**  
 MICHAEL LLOYD LASSITER  
 0-26018-1B  
 U.S. VIRGIN ISLANDS

MICHAEL LLOYD LASSITER, P.E. 10/14/22  
 USVI LICENSE NO. #0-26018-1B

DRAWN BY: JL  
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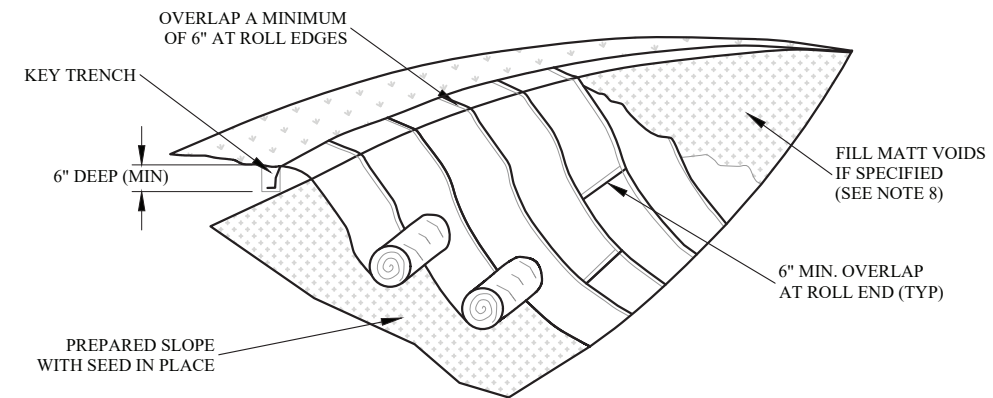
**SITE ID:**  
VI020

**SHEET TITLE**  
SITE SIGNAGE

**SHEET NUMBER**  
C-14

**DETAIL NOT USED**

**PERMANENT SOIL STABILIZATION MATTING -  
SLOPE**



**ISOMETRIC VIEW**

\*\* MATTING INSTALLATION NOTES ARE MINIMUM REQUIREMENTS AND ARE FOR GENERAL GUIDANCE ONLY. REFER TO MANUFACTURER'S RECOMMENDATIONS OF THE SPECIFIED PRODUCT FOR FULL INSTALLATION DETAILS. IN THE EVENT OF DISCREPANCIES, MANUFACTURER'S RECOMMENDATIONS SHALL GOVERN.

**NOTES:**

1. USE PERMANENT NORTH AMERICAN GREEN ROLLMAX ERONET P300 OR APPROVED EQUAL.
2. SECURE MATTING USING STEEL STAPLES. STAPLES MUST BE "U" OR "T" SHAPED STEEL WIRE HAVING A MINIMUM GAUGE OF NO. 11 AND NO. 8 RESPECTIVELY. "U" SHAPED STAPLES MUST AVERAGE 1 TO 1 1/2 INCHES WIDE AND BE A MINIMUM OF 6 INCHES LONG. "T" SHAPED STAPLES MUST HAVE A MINIMUM 8 INCH MAIN LEG, A MINIMUM 1 INCH SECONDARY LEG, AND MINIMUM 4 INCH HEAD. WOOD STAKES MUST BE ROUGH-SAWN HARDWOOD, 12 TO 24 INCHES IN LENGTH, 1x3 INCH IN CROSS SECTION, AND WEDGE SHAPE AT THE BOTTOM.
3. PERFORM FINAL GRADING, TOPSOIL APPLICATION, SEEDBED PREPARATION, AND PERMANENT SEEDING IN ACCORDANCE WITH SPECIFICATIONS. PLACE MATTING WITHIN 48 HOURS OF COMPLETING SEEDING OPERATIONS, UNLESS END OF WORKDAY STABILIZATION IS SPECIFIED ON THE APPROVED EROSION AND SEDIMENT CONTROL PLAN.
4. UNROLL MATTING IN DIRECTION OF WATER FLOW, CENTERING THE FIRST ROLL ON THE CHANNEL CENTER LINE. WORK FROM CENTER OF CHANNEL OUTWARD WHEN PLACING ROLLS. LAY MATTING SMOOTHLY AND FIRMLY UPON THE SEEDED SURFACE. AVOID STRETCHING THE MATTING.
5. OVERLAP OR ABUT EDGES OF MATTING ROLLS PER MANUFACTURER RECOMMENDATIONS. OVERLAP ROLL ENDS BY 6 INCHES (MINIMUM), WITH THE UPSTREAM MAT OVERLAPPING ON TOP OF THE NEXT DOWNSTREAM MAT.
6. KEY IN THE TOP OF SLOPE END OF MAT 6 INCHES (MINIMUM) BY DIGGING A TRENCH, PLACING THE MATTING ROLL END IN THE TRENCH, STAPLING THE MAT IN PLACE, REPLACING THE EXCAVATED MATERIAL, AND TAMPING TO SECURE THE MAT END IN THE KEY.
7. STAPLE/STAKE MAT IN A STAGGERED PATTERN ON 4 FOOT (MAXIMUM) CENTERS THROUGHOUT AND 2 FOOT (MAXIMUM) CENTERS ALONG SEAMS, JOINTS, AND ROLL ENDS.
8. IF SPECIFIED BY THE DESIGNER OR MANUFACTURER AND DEPENDING ON THE TYPE OF MAT BEING INSTALLED, ONCE THE MATTING IS KEYED AND STAPLED IN PLACE, FILL THE MAT VOIDS WITH TOP SOIL OR GRANULAR MATERIAL AND LIGHTLY COMPACT OR ROLL TO MAXIMIZE SOIL/MAT CONTACT WITHOUT CRUSHING MAT.

PREPARED FOR:



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CARRIER:



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LATIN AMERICA

PREPARED BY:



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RALEIGH, NC 27609  
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MICHAEL LLOYD LASSITER, P.E. 10/14/22  
USVI LICENSE NO. #0-26018-1B

DRAWN BY: JL

CHECKED BY: BJW

PROJECT NO: AES22-12323

**SUBMITTALS**

DATE	DESCRIPTION	REV	ISSUED BY
05/12/22	PRELIMINARY	A	JL
6/17/22	PRELIMINARY	B	JL
7/06/22	FOR CONSTRUCTION	0	JL
10/14/22	CLIENT COMMENT	1	JL
11/11/22	CLIENT COMMENT	2	JL
11/21/22	CLIENT COMMENT	3	JL

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CLAIRMONT

**SITE ADDRESS:**

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CHRISTIANSTED, USVI 00820

**SITE ID:**

VI020

**SHEET TITLE**

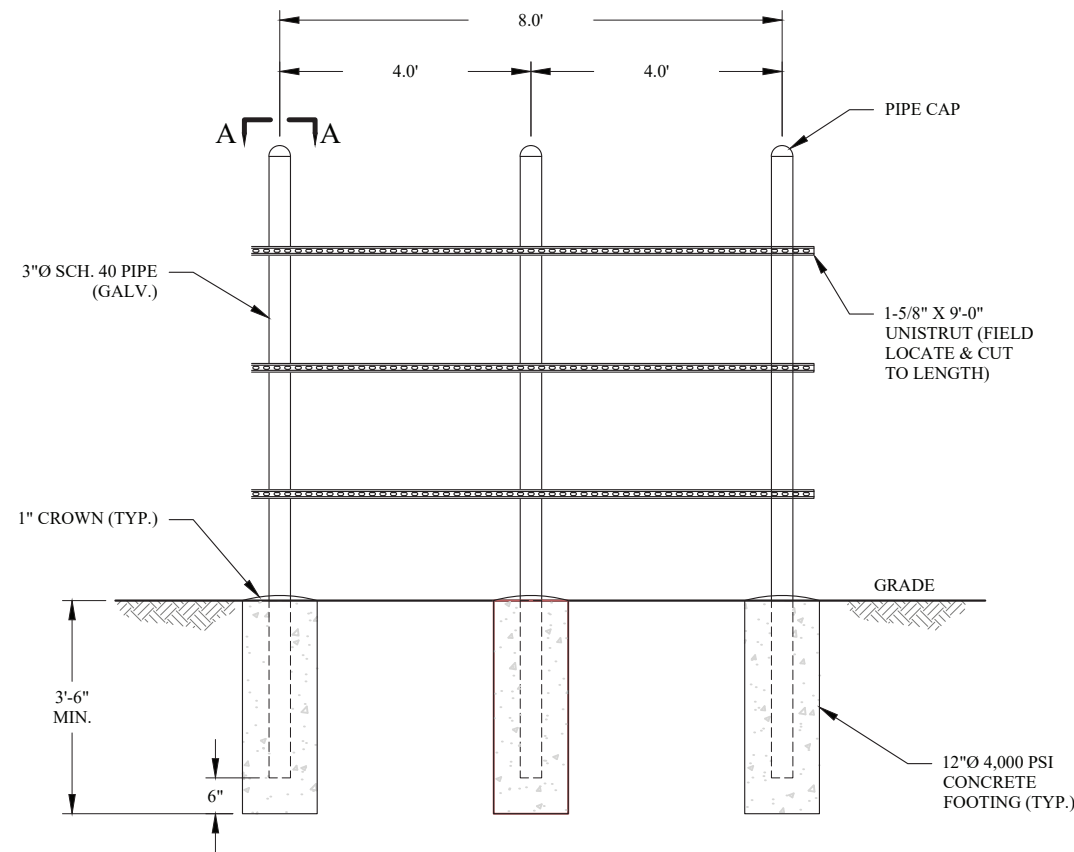
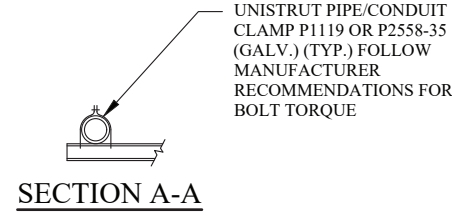
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(STABILIZATION MATTING)

**SHEET NUMBER**

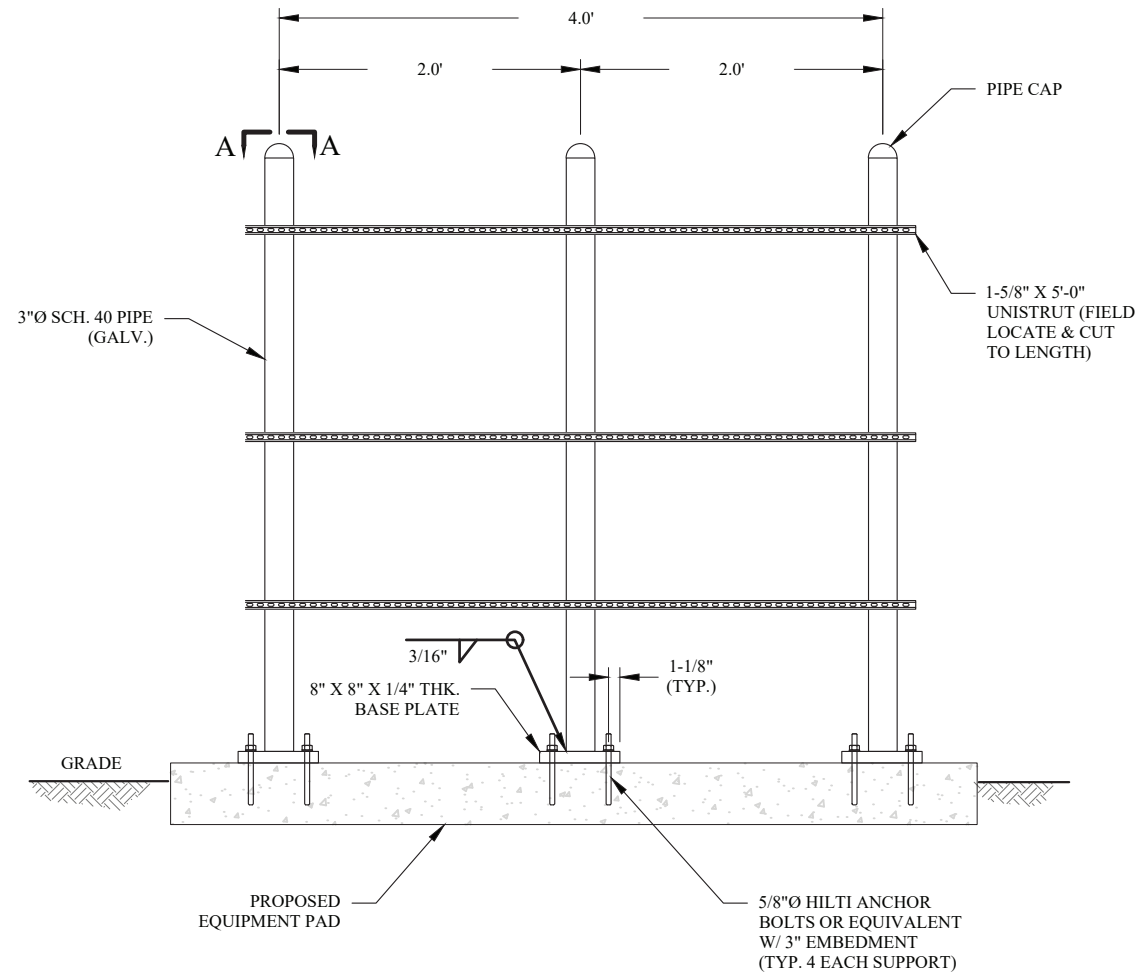
C-15

**H-FRAME NOTES:**

1. IF IT IS NECESSARY TO EXTEND THE H-FRAME, AN ADDITIONAL POST WILL ALWAYS BE REQUIRED.
2. PROPOSED UNISTRUTS TO BE FIELD CUT AND SHOULD NOT EXTEND MORE THAN 6 INCHES BEYOND THE LAST POST.
3. SPRAY ENDS OF UNISTRUT WITH COLD GALVANIZING SPRAY PAINT, ALLOW TO DRY, THEN COVER WITH RUBBER PROTECTIVE CAPS FOR SAFETY.
4. UNISTRUT TO BE CUT FLUSH WITH NO SHARP OR JAGGED EDGES.
5. ALL PROPOSED HARDWARE TO BE MOUNTED PER MANUFACTURERS SPECS.



**TYPICAL H-FRAME DETAIL W/ POSTS**  
NTS



**TYPICAL H-FRAME DETAIL W/ BASE PLATE**  
NTS

PREPARED FOR:



INFRA TOWERS, LLC  
1800 DIAGONAL ROAD, STE 600  
ALEXANDRIA, VA 22314  
PHONE: (571) 336-1720

CARRIER:



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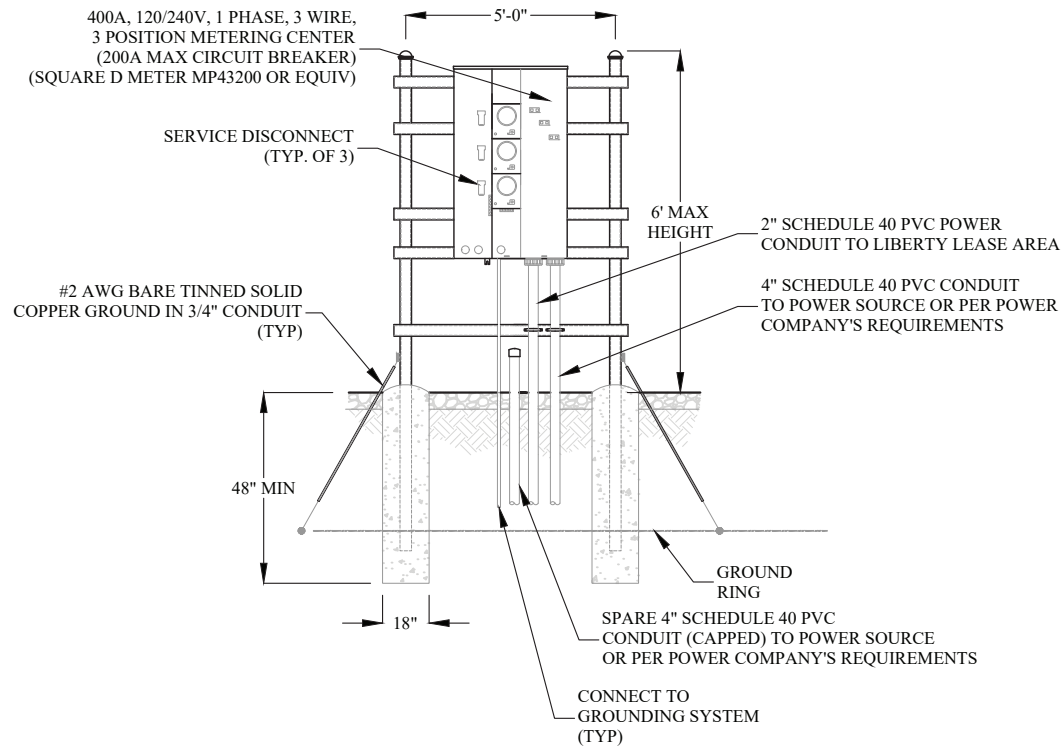
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VI020

**SHEET TITLE**  
CONSTRUCTION DETAILS

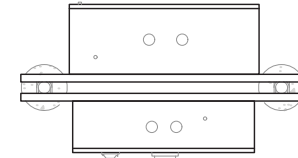
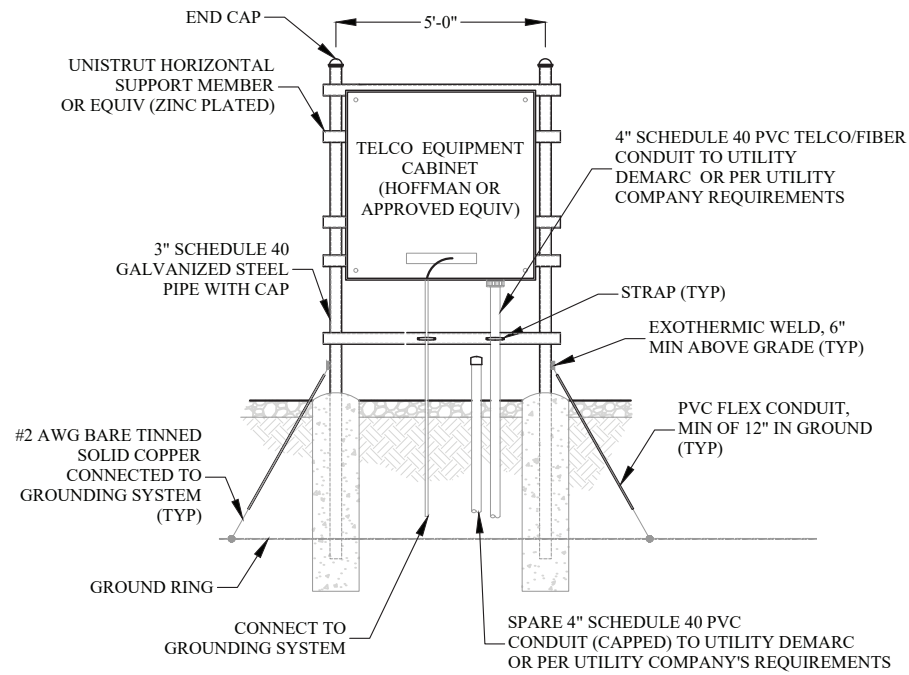
**SHEET NUMBER**  
C-16

# H-FRAME UTILITY RACK

**FRONT VIEW**



**REAR VIEW**



**PLAN VIEW**

**NOTES:**

- EXACT LAYOUT AND COMPONENTS OF UTILITY RACK MAY CHANGE BASED ON OWNER/TENANT REQUIREMENTS. CONTRACTOR TO COORDINATE WITH OWNER PRIOR TO BID REGARDING POTENTIAL MODIFICATIONS.
- CONTRACTOR TO MAINTAIN 3'-0" MINIMUM CLEARANCE FROM METERING CENTER TO NEAREST OBSTRUCTION
- CONCRETE PIER FOUNDATION TO ACHIEVE A MINIMUM STRENGTH OF 3000 PSI AT 28 DAYS. CONCRETE DEPTH TO BE A MINIMUM OF 6" BELOW FROST LINE (48" MINIMUM, TYP.)
- ELECTRIC SERVICE: 240/120V, 1Ø, 3W, 600A UNDERGROUND SERVICE TO POLE RISER
- USE COPPER STRANDED, 600V, TYPE THW/THWN, WITH CROSS-LINKED POLYETHYLENE INSULATION FOR #8 AWG AND LARGER WIRE
- UNDERGROUND CONDUITS SHALL BE SCHEDULE 40 PVC (MEET UL STANDARDS G51 AND NEMA TC2-1990) EXPOSED GALVANIZED STEEL. ALL CONDUIT BENDS SHALL BE A MIN. OF 24" RADIUS OR AS SPECIFIED BY THE LATEST EDITION OF THE NEC, WHICHEVER IS GREATER
- GROUNDING CONDUCTOR SHALL BE #2 AWG SOLID BARE TINNED COPPER UNLESS OTHERWISE NOTED
- 4" PVC CONDUIT INSTALLED 30" (MIN) BELOW GRADE FOR INCOMING SERVICE BY TELEPHONE COMPANY. PROVIDE PULL STRING - 200 LB TEST POLYETHYLENE CORD

PREPARED FOR:



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ALEXANDRIA, VA 22314  
PHONE: (571) 336-1720

CARRIER:



LIBERTY  
LATIN AMERICA

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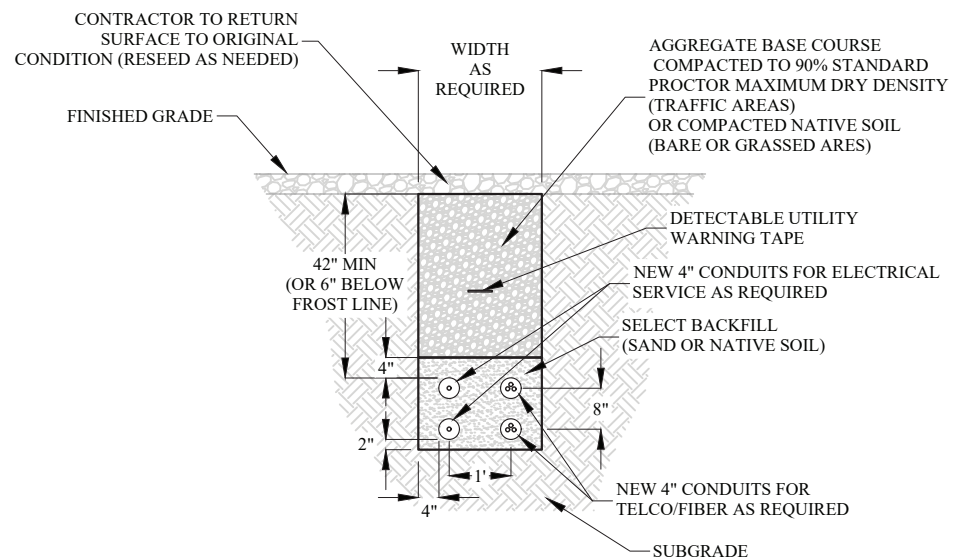
**SITE ID:**  
VI020

**SHEET TITLE**  
ELECTRICAL DETAILS

**SHEET NUMBER**

E-1

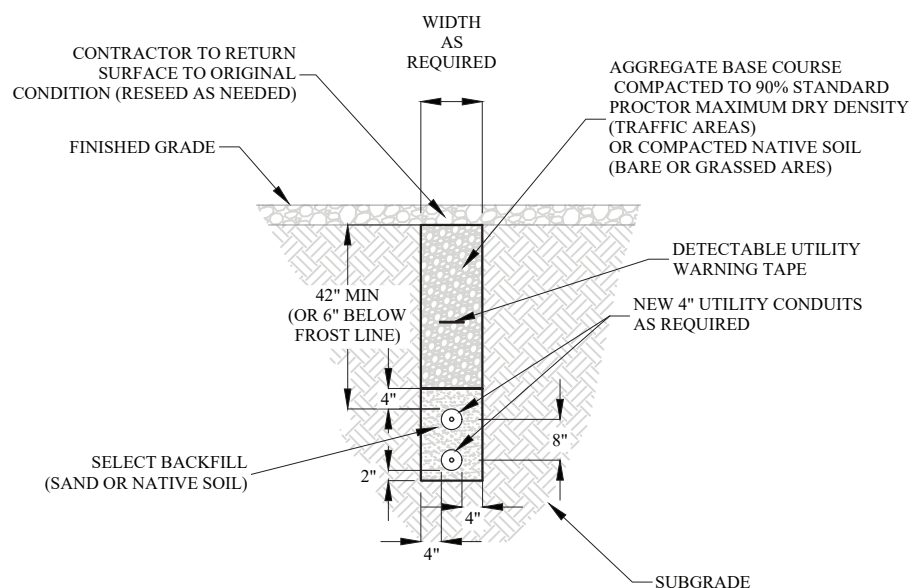
## JOINT UTILITY TRENCH



**NOTES:**

- CONDUIT TYPE, SIZE, QUANTITY, AND SEPARATION TO BE VERIFIED WITH LOCAL UTILITY PROVIDER REQUIREMENTS.

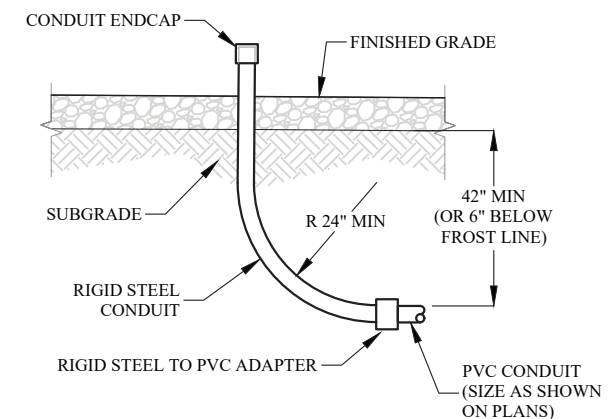
## SINGLE UTILITY TRENCH



**NOTES:**

- CONDUIT TYPE, SIZE, QUANTITY, AND SEPARATION TO BE VERIFIED WITH LOCAL UTILITY PROVIDER REQUIREMENTS.

## CONDUIT STUB-UP



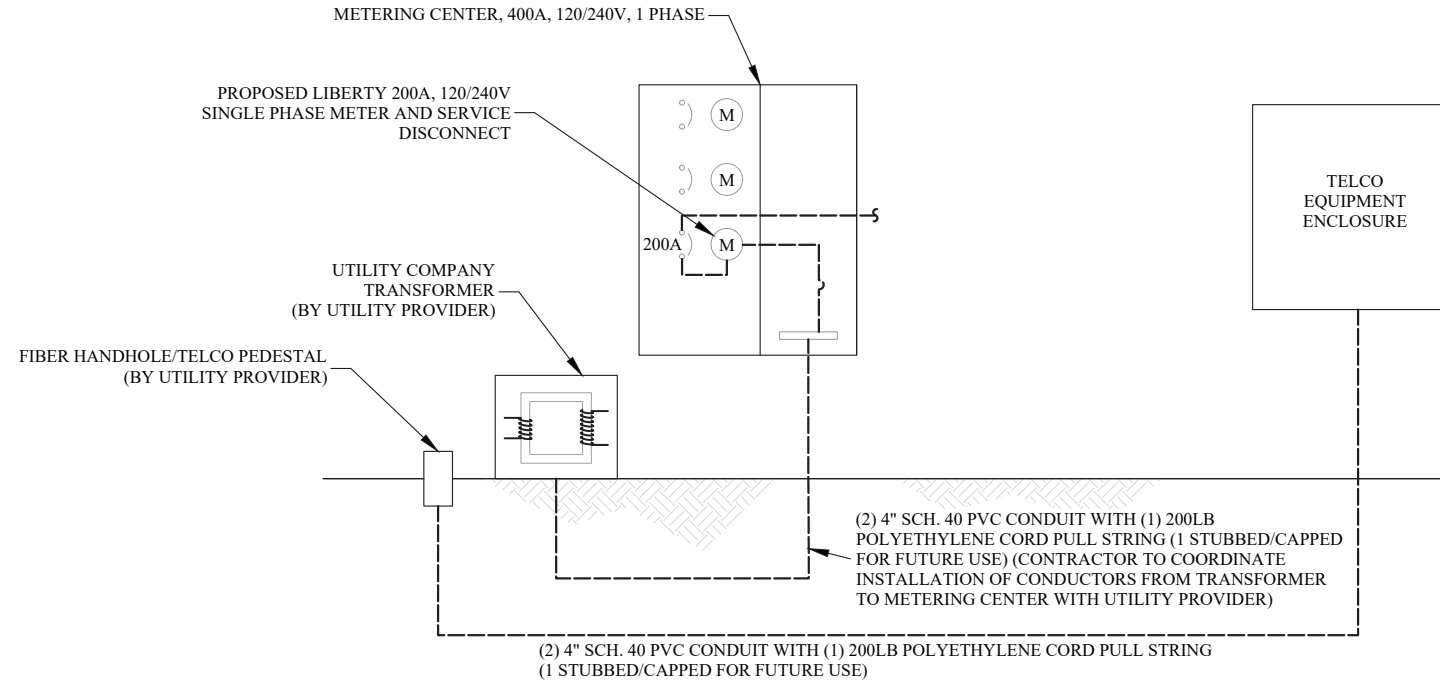
## ELECTRICAL NOTES

- 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.
- VERIFY HEIGHTS WITH PROJECT MANAGER PRIOR TO INSTALLATION.
- THESE PLANS ARE DIAGRAMMATIC ONLY, FOLLOW AS CLOSELY AS POSSIBLE.
- 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.
- 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 OVER 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.
- 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 CONTRACTOR.
- PROPERLY SEAL ALL PENETRATIONS. PROVIDE UL LISTED FIRE-STOPS WHERE PENETRATIONS ARE MADE THROUGH FIRE-RATED ASSEMBLIES. WATER-TIGHT USING SILICONE SEALANT.
- 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.
- 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.
- THE ENTIRE ELECTRICAL INSTALLATION SHALL BE GROUNDED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE; ARTICLES 250 & 810 AND THE UTILITY COMPANY STANDARDS.
- CONDUIT:
  - 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.
  - ELECTRICAL METALLIC TUBING SHALL HAVE U.L. LABEL, FITTINGS SHALL BE GLAND RING COMPRESSION TYPE. EMT SHALL BE USED ONLY FOR INTERIOR RUNS.
  - 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.
  - 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 PRIOR TO INSTALLING.
  - 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.
- 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.
- 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 ITEMS INDICATED ON THE DRAWINGS TO THE OWNER IN GOOD CONDITION. OBTAIN SIGNED RECEIPT UPON DELIVERY.
- 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.
- VERIFY ALL EXISTING CIRCUITRY PRIOR TO REMOVAL AND NEW WORK. MAINTAIN POWER TO ALL OTHER AREAS & CIRCUITS NOT SCHEDULED FOR REMOVAL.
- RED LINED AS-BUILT PLANS SHALL BE PROVIDED TO THE CONSTRUCTION MANAGER.

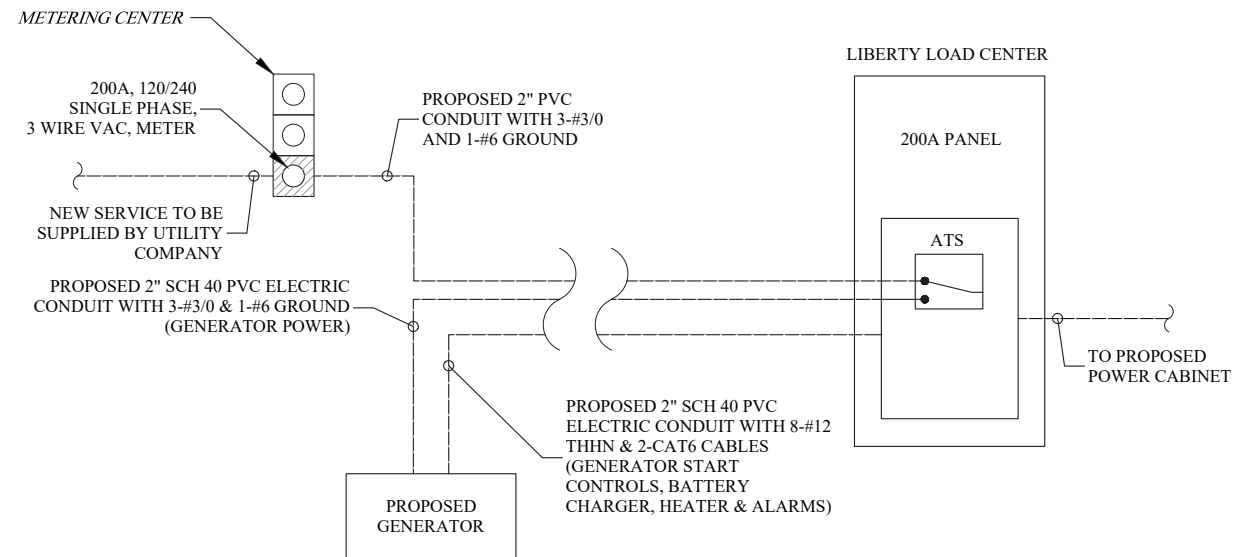
## UTILITY SINGLE LINE DIAGRAM

### NOTES:

- EXACT LAYOUT AND COMPONENTS OF UTILITY RACK MAY CHANGE BASED ON OWNER/TENANT REQUIREMENTS. CONTRACTOR TO COORDINATE WITH OWNER PRIOR TO BID REGARDING POTENTIAL MODIFICATIONS.



## LIBERTY SINGLE LINE DIAGRAM



### NOTE:

- LIBERTY POWER DIAGRAM AND PANEL SCHEDULE DETAILED ON THIS SHEET ARE AS DESIGNED AND LIBERTY.

PREPARED FOR:



INFRA TOWERS, LLC  
1800 DIAGONAL ROAD, STE 600  
ALEXANDRIA, VA 22314  
PHONE: (571) 336-1720

CARRIER:



PREPARED BY:



DELTA OAKS GROUP  
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USVI LICENSE NO. #0-26018-1B

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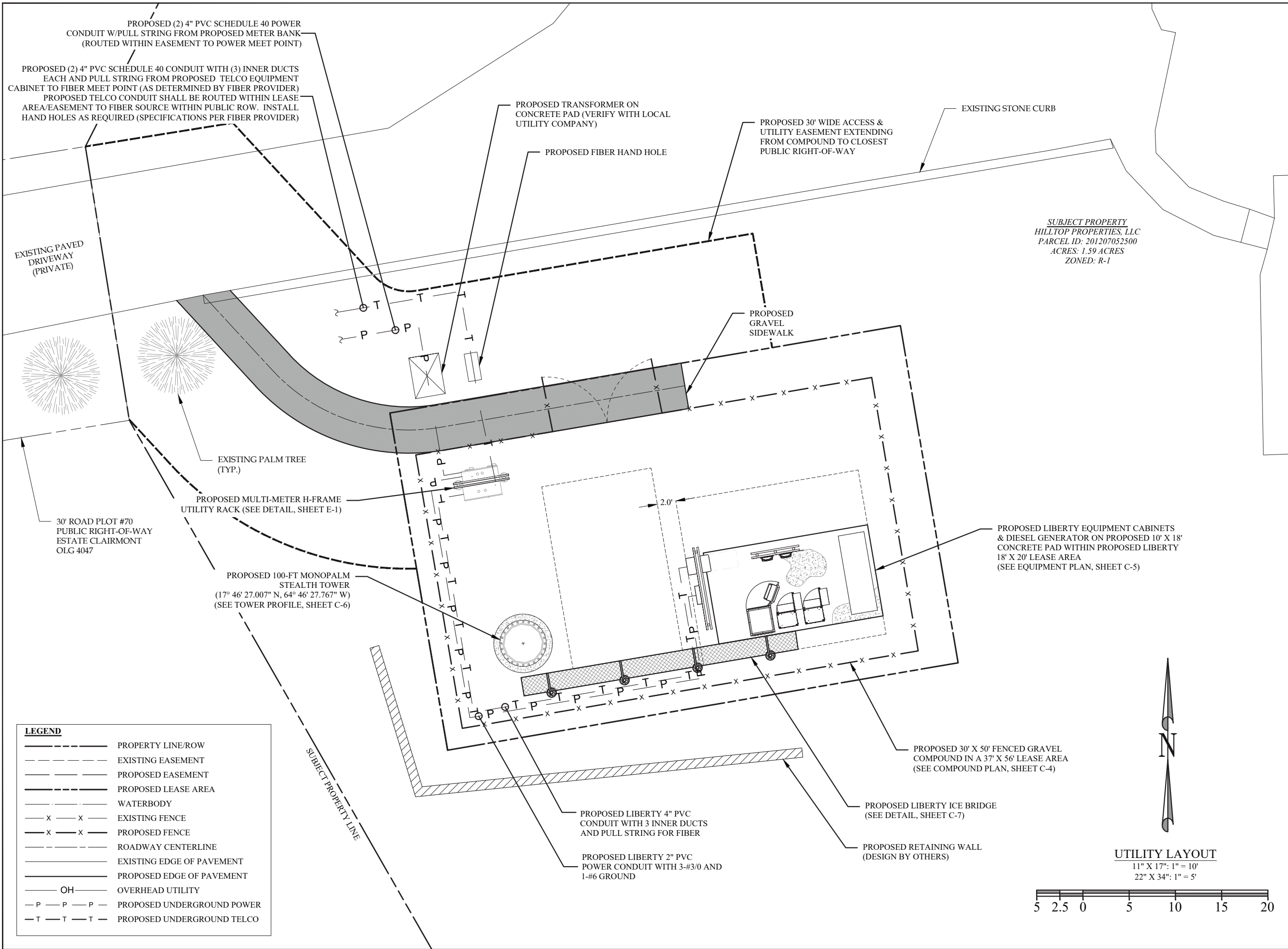
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### SHEET TITLE

ELECTRICAL DETAILS

### SHEET NUMBER

E-2



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**INFRA TOWERS**  
INFRA TOWERS, LLC  
1800 DIAGONAL ROAD, STE 600  
ALEXANDRIA, VA 22314  
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CARRIER:

**LIBERTY LATIN AMERICA**

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*Michael Lloyd Lassiter*

PROFESSIONAL ENGINEER  
MICHAEL LLOYD LASSITER  
0-26018-1B  
U.S. VIRGIN ISLANDS

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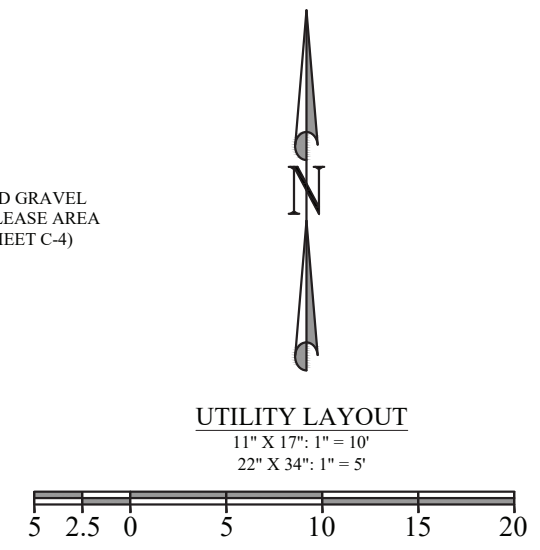
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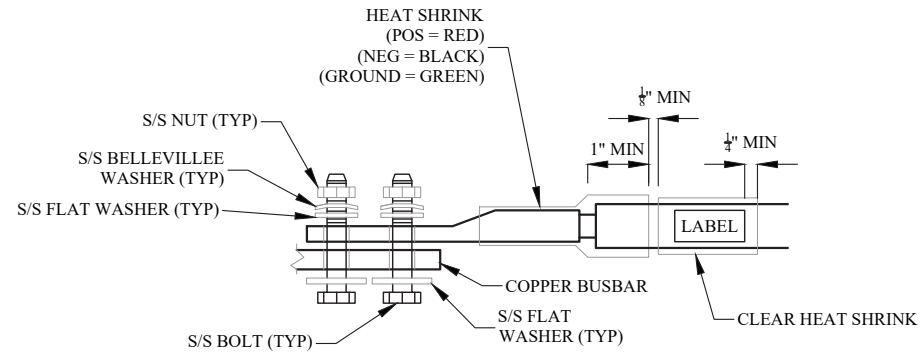
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**SHEET TITLE**  
UTILITY LAYOUT

**SHEET NUMBER**  
E-3

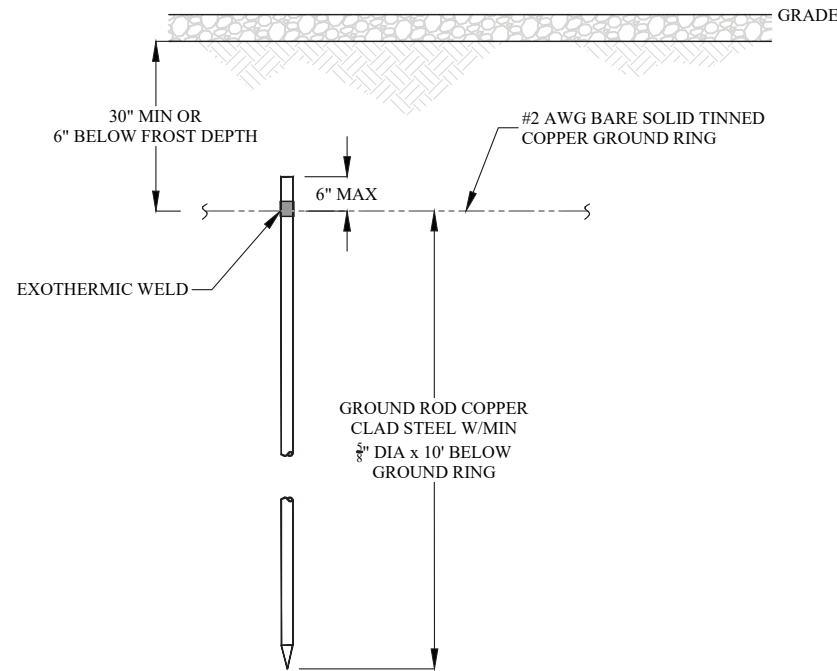


### GROUND LUG DETAIL



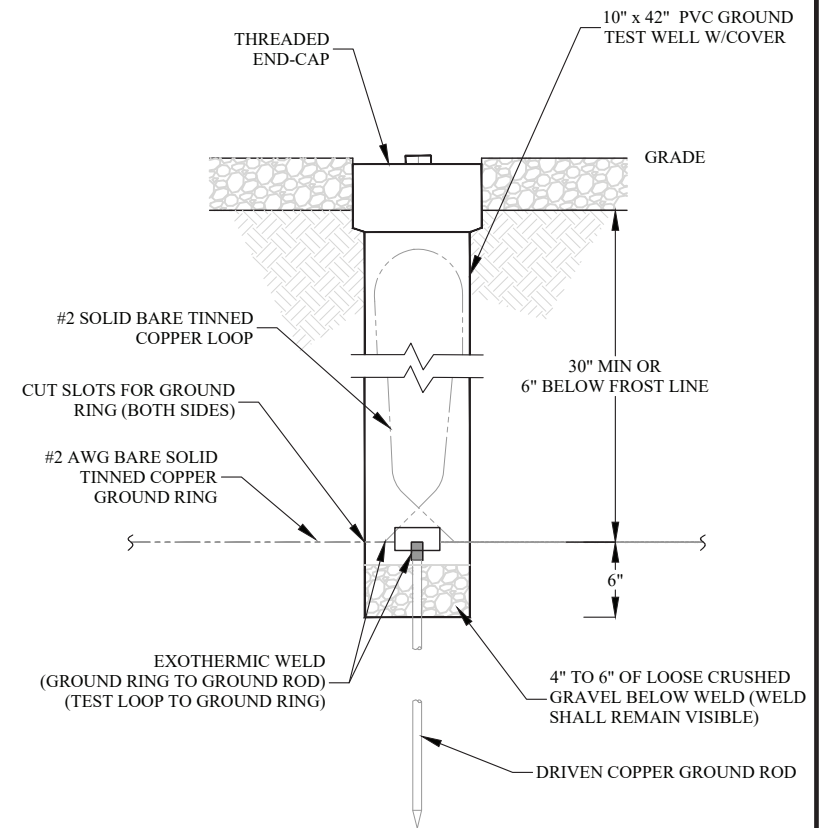
- NOTES:**  
 1. ALL GROUNDING SYSTEM COMPONENTS SHOULD ADHERE TO THE SPECIFICATIONS SET FORTH IN THE LATEST VERSION OF TIA-607 OR THE NATIONAL ELECTRIC CODE, WHICHEVER IS MORE STRINGENT

### GROUND ROD DETAIL



- NOTES:**  
 1. ALL GROUNDING SYSTEM COMPONENTS SHOULD ADHERE TO THE SPECIFICATIONS SET FORTH IN THE LATEST VERSION OF TIA-607 OR THE NATIONAL ELECTRIC CODE, WHICHEVER IS MORE STRINGENT  
 2. GROUND RODS SHALL BE Laterally SPACED NO CLOSER THAN A DISTANCE EQUAL TO THEIR LENGTH, BUT NO GREATER THAN TWICE THEIR LENGTH  
 3. GROUND RODS SHALL BE DRIVEN VERTICALLY, NOT TO EXCEED 30 DEGREES FROM VERTICAL  
 4. ALL BONDING CONNECTIONS SHALL BE MADE VIA EXOTHERMIC WELDING

### GROUND ROD TEST WELL DETAIL



- NOTES:**  
 1. ALL GROUNDING SYSTEM COMPONENTS SHOULD ADHERE TO THE SPECIFICATIONS SET FORTH IN THE LATEST VERSION OF TIA-607 OR THE NATIONAL ELECTRIC CODE, WHICHEVER IS MORE STRINGENT

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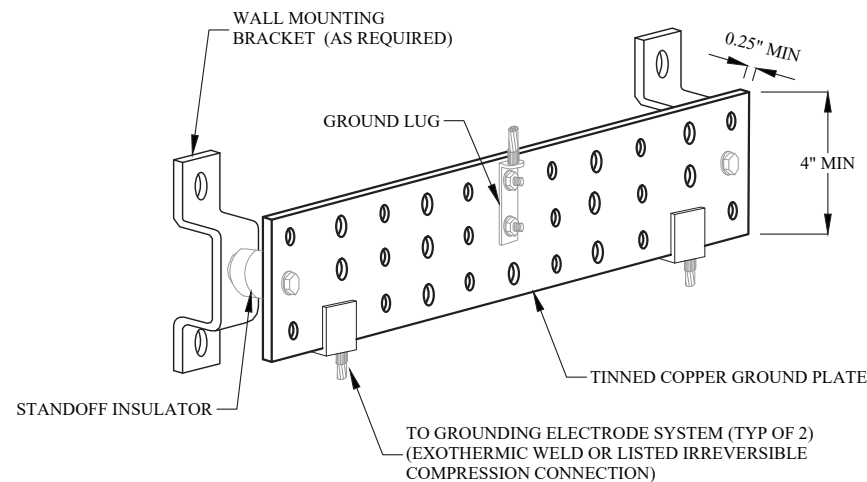
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**SHEET TITLE**  
 GROUNDING DETAILS

**SHEET NUMBER**  
 G-1

### EXTERIOR GROUND BUSBAR



- NOTES:**  
**ALL BUSBARS**  
 1. ALL GROUNDING SYSTEM COMPONENTS SHOULD ADHERE TO THE SPECIFICATIONS SET FORTH IN THE LATEST VERSION OF TIA-607 OR THE NATIONAL ELECTRIC CODE, WHICHEVER IS MORE STRINGENT  
 2. GROUNDING CONDUCTORS SHALL NOT HAVE A RADIUS LESS THAN 8" OR AN ANGLE OF BEND LESS THAN 90 DEGREES.  
 3. WHEN MOUNTED ON WALLS OR OTHER SOLID SURFACES, GROUND BUSBAR(S) SHALL HAVE A MINIMUM 2" SEPARATION FROM THE SURFACE TO WHICH IT IS MOUNTED TO ALLOW ACCESS TO THE REAR OF THE BAR.  
 4. SHOULD BE CONNECTED DIRECTLY TO THE GROUNDING ELECTRODE SYSTEM VIA EXOTHERMIC WELD OR LISTED IRREVERSIBLE COMPRESSION CONNECTION. ALL BONDING CONNECTIONS SHALL BE MADE VIA EXOTHERMIC WELDING OR LISTED IRREVERSIBLE COMPRESSION OR MECHANICAL CONNECTORS. MECHANICAL AND COMPRESSION CONNECTORS SHOULD ONLY BE USED ABOVE GROUND.

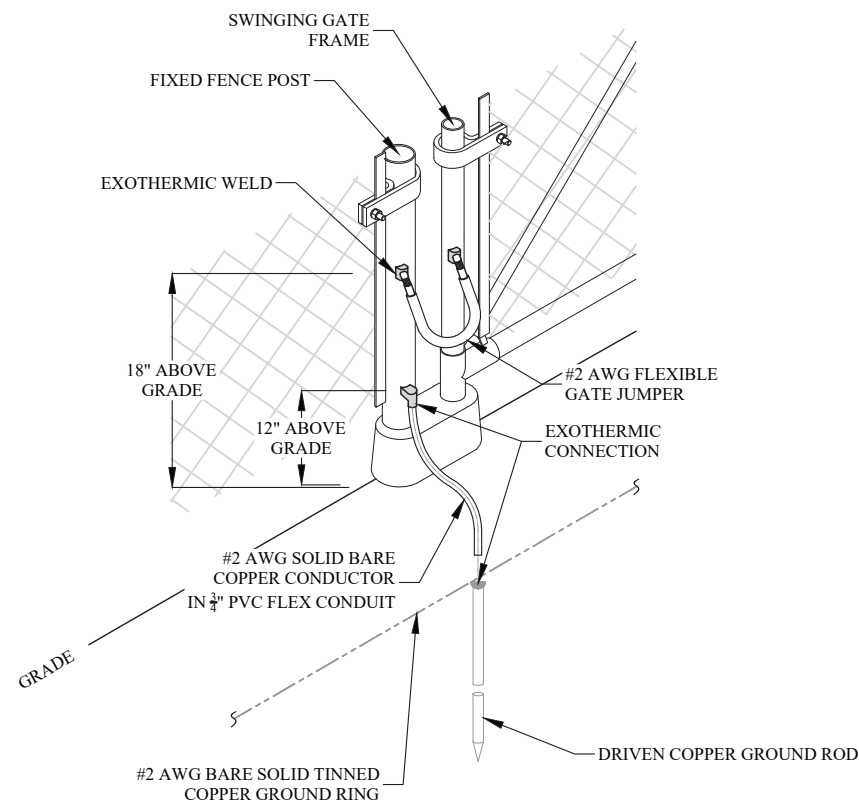
**EXTERNAL SHELTER/EQUIPMENT BUSBAR**

5. SHALL BE CONNECTED DIRECTLY TO THE GROUNDING ELECTRODE SYSTEM VIA NO. 2 AWG OR LARGER BARE, SOLID, TINNED COPPER CONDUCTOR.

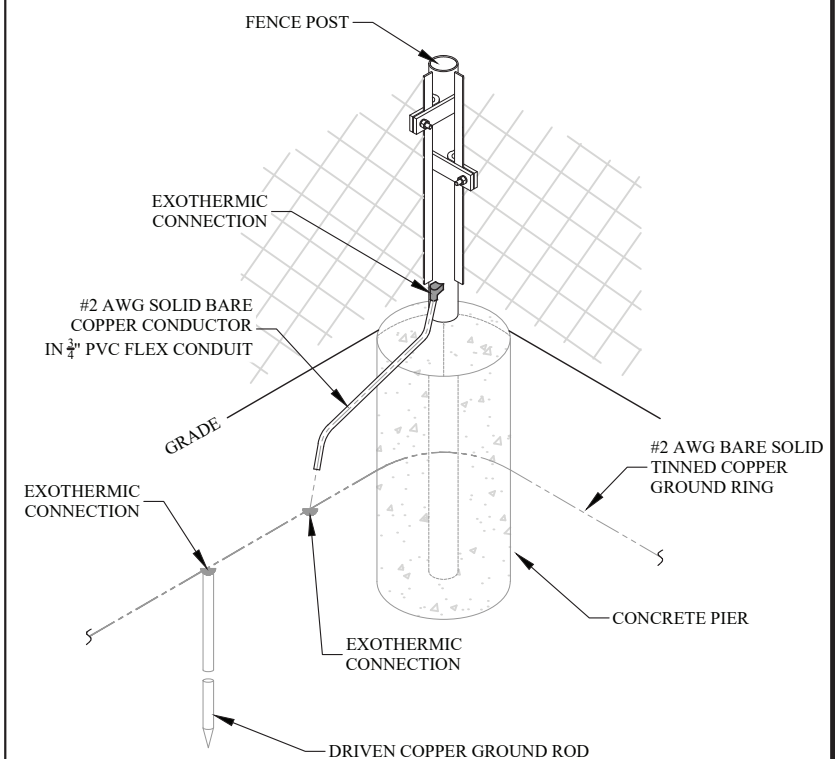
**TOWER BUSBAR**

6. SHALL BE DIRECTLY BONDED TO THE TOWER.  
 7. SHALL BE INSTALLED AT THE TOP AND BOTTOM OF THE TOWER; WHEN TOWER IS GREATER THAN 200-FT IN HEIGHT, BUSBARS SHALL BE INSTALLED EVERY 50-FT AND BONDED TO THE TOWER AND TRANSMISSION LINE CABLE SHIELDS  
 8. SHALL BE CONNECTED DIRECTLY TO THE GROUNDING ELECTRODE SYSTEM VIA #2 AWG OR LARGER BARE, SOLID, TINNED COPPER CONDUCTOR.

### GATE GROUNDING DETAIL



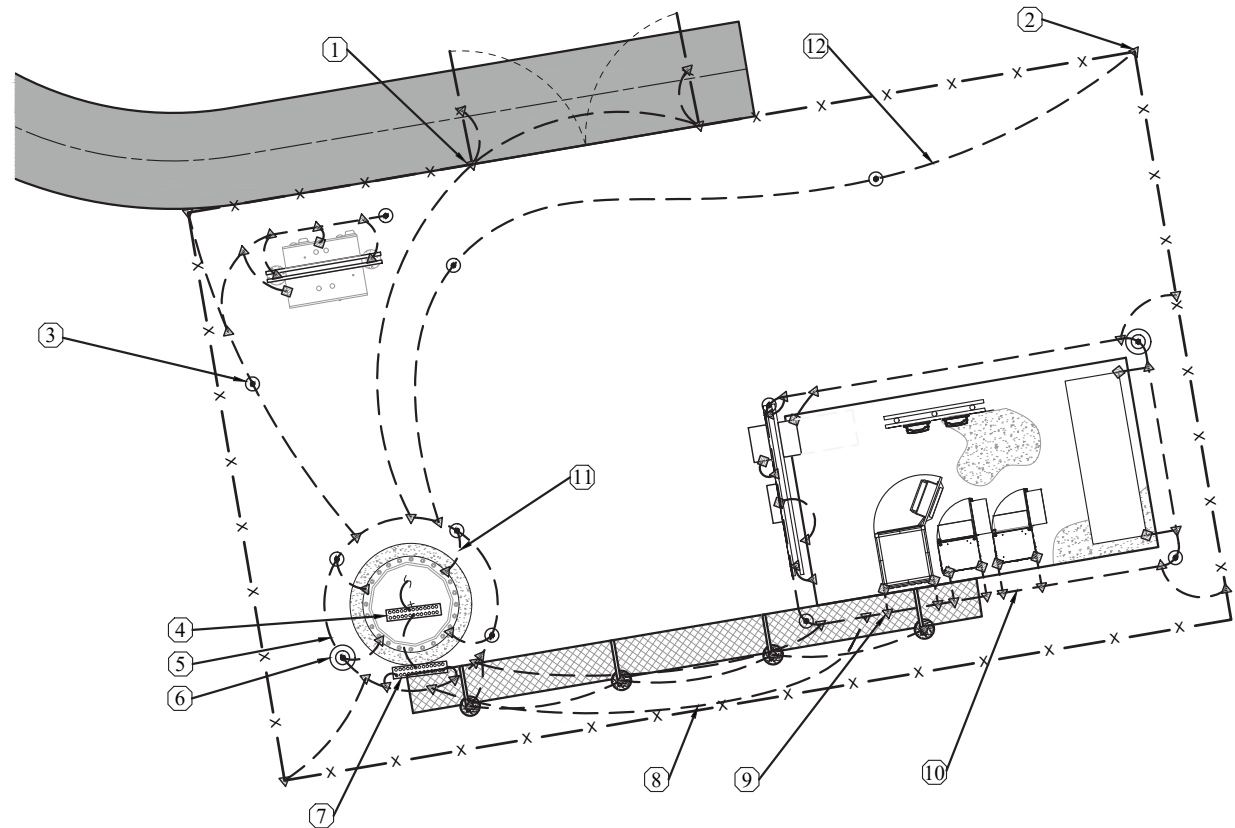
### FENCE POST GROUNDING DETAIL



LEGEND	
---	PROPOSED GROUND WIRE
⊙	COPPER CLAD GROUND ROD
⊙	COPPER CLAD GROUND ROD WITH INSPECTION WELL
⊙	CADWELD CONNECTION
△	EXOTHERMIC WELD CONNECTION
⊠	COMPRESSION FITTING CONNECTION
▬	GROUND BAR

**GROUNDING PLAN NOTES:**

- ① PROPOSED GATE GROUNDING (TYP.) (SEE DETAIL, SHEET G-1)
- ② PROPOSED FENCE POST GROUNDING (TYP.) (SEE DETAIL, SHEET G-1)
- ③ PROPOSED 5/8" X 10' LONG COPPER CLAD GROUND ROD (TYP.) (SEE DETAIL, SHEET G-1) SPACED MAXIMUM OF 20' APART AND NO CLOSER THAN 10' APART
- ④ PROPOSED GROUND BAR AT TOP OF TOWER
- ⑤ PROPOSED TOWER GROUND RING, #2 AWG BARE, TINNED SOLID COPPER WIRE APPROX. LENGTH 40', MIN. 36" BELOW GRADE
- ⑥ PROPOSED GROUND ROD WITH INSPECTION WELL (TYP.) (SEE DETAIL, SHEET G-1)
- ⑦ PROPOSED GROUND BAR AT TOWER BASE
- ⑧ PROPOSED BOND FROM PROPOSED EQUIPMENT PAD GROUND RING TO PROPOSED TOWER RING (TYP. 2 PLACES)
- ⑨ PROPOSED EQUIPMENT BOND TO PROPOSED GROUND RING (TYP.)
- ⑩ PROPOSED EQUIPMENT PAD GROUND RING, #2 AWG BARE, TINNED SOLID COPPER WIRE
- ⑪ PROPOSED #2 AWG BARE, TINNED SOLID COPPER WIRE IN 3/4" PVC FLEX CONDUIT. MINIMUM 3, EQUALLY SPACED (SEE DETAIL, SHEET G-3)
- ⑫ PROPOSED FENCE GROUNDING #2 AWG BARE, TINNED SOLID COPPER WIRE 36" BELOW GRADE, CONNECT TO THE PROPOSED TOWER GROUNDING



**GROUNDING PLAN**  
 11" X 17": 1" = 10'  
 22" X 34": 1" = 5'



**NOTES:**

1. ALL GROUNDING SYSTEM SCHEMATICS/DIAGRAMS ARE INTENDED TO REPRESENT TYPICAL INSTALLATION SCENARIOS. VARYING SITE CONDITIONS MAY REQUIRE MODIFICATION OF THE DETAILS PRESENTED HEREIN. ALL GROUNDING SYSTEM GUIDELINES AND COMPONENTS SHOULD ADHERE TO THE SPECIFICATIONS SET FORTH IN THE LATEST VERSION OF TIA-607 OR THE NATIONAL ELECTRIC CODE, WHICHEVER IS MORE STRINGENT
2. SITE GROUNDING SYSTEM MUST ACHIEVE A RESISTANCE OF 5 OHMS OR LESS
3. ALL GROUND RINGS SHALL BE INSTALLED AT A MINIMUM DEPTH OF 2.5-FT BELOW GRADE OR 6-INCHES BELOW THE FROST LINE, WHICHEVER IS GREATER
4. ALL GROUND RODS SHALL BE INSTALLED TO A MINIMUM DEPTH OF 10-FT BELOW THE GROUND RING
5. TOWER GROUND RING SHALL BE BONDED TO SHELTER/EQUIP PAD GROUND RING AND PERIMETER GROUND RING IN (2) LOCATIONS. SHELTER/EQUIPMENT PAD GROUND RING SHALL BE BONDED TO THE PERIMETER GROUND RING IN (2) LOCATIONS.
6. ALL SHELTER, EQUIPMENT PAD, AND TOWER FOUNDATIONS SHALL HAVE REBAR ELECTRICALLY CONNECTED TO THEIR ASSOCIATED GROUND RING (TOWER, SHELTER/EQUIP PAD) PER NEC 250.52(3)(A). FOUNDATION GROUNDING CONNECTIONS SHALL HAVE A MINIMUM COVER OF 3" OF CONCRETE AND SHALL BE MADE TO A MINIMUM 6' LENGTH OF REBAR (20' IS PREFERABLE).
7. GROUND ALL CORNER FENCE POSTS, GATE POSTS, AND GATE FRAME TO THE GROUND RING VIA EXOTHERMIC WELD. GROUND ANY GATE POST WITHIN 6' OF A SHELTER/EQUIPMENT PAD OR 25-FT OF THE TOWER TO THE GROUND RING VIA EXOTHERMIC WELD.
8. FOR TOWERS NOT EXCEEDING 5-FT IN BASE WIDTH, A MINIMUM OF (2) GROUND RODS SHOULD BE INCLUDED IN THE TOWER GROUND RING, SPACED OPPOSITE EACH OTHER.
9. FOR SELF SUPPORT TOWERS EXCEEDING 5-FT IN BASE WIDTH, A MINIMUM OF ONE GROUND ROD PER TOWER LEG SHOULD BE INCLUDED IN THE TOWER GROUND RING.
10. FOR MONOPOLES EXCEEDING 5-FT IN BASE WIDTH, THE GROUND RING SHOULD INCLUDE (4) GROUND RODS, EQUALLY SPACED; THERE SHOULD ALSO BE (4) BONDING CONDUCTORS CONNECTED TO THE MONOPOLE TOWER, EQUALLY SPACED.
11. BOND PROPANE TANK(S), GENERATOR(S), AND ALL MISCELLANEOUS METALLIC EQUIPMENT TO THE SITE GROUNDING SYSTEM.
12. GROUND ALL EXPOSED METALLIC OBJECTS ON THE BUILDING/SHELTER EXTERIOR
13. ALL CONDUITS CROSSING THE GROUND RING CONDUCTOR SHALL BE BONDED TO THE GROUND CONDUCTOR USING A PIPE CLAMP. DO NOT EXOTHERMICALLY WELD TO CONDUIT.
14. GROUNDING CONDUCTORS SHALL NOT HAVE A RADIUS LESS THAN 8" OR AN ANGLE OF BEND LESS THAN 90 DEGREES.
15. ALL BONDING CONNECTIONS SHALL BE MADE VIA EXOTHERMIC WELDING OR LISTED IRREVERSIBLE COMPRESSION OR MECHANICAL CONNECTORS. ALL BELOW GRADE CONNECTIONS SHOULD BE MADE VIA EXOTHERMIC WELD.
16. ALL ABOVE GRADE CONNECTIONS EXTENDING BENEATH THE GROUND SURFACE SHOULD BE ENCASED IN 3/4" PVC FLEX CONDUIT THAT EXTENDS A MINIMUM 12" BELOW GRADE; ALL FLEX CONDUIT OPENINGS SHALL BE WEATHERPROOFED
17. UNLESS OTHERWISE NOTED, ALL EXTERIOR GROUNDING CONDUCTORS, INCLUDING GROUND RINGS, SHALL BE #2 AWG SOLID BARE TINNED COPPER. CONFIGURE ALL GROUNDING CONNECTIONS AS SHORT AND STRAIGHT AS POSSIBLE. GROUNDING CONDUCTORS SHALL BE ROUTED DOWNWARD TOWARD THE BURIED GROUND RING.
18. ALL GROUND MECHANICAL AND COMPRESSION CONNECTIONS SHALL BE COATED WITH ANTI-OXIDANT AGENT
19. PROVIDE LOCK WASHERS FOR ALL MECHANICAL CONNECTIONS FOR GROUND CONDUCTORS. USE STAINLESS STEEL HARDWARE THROUGHOUT.
20. ALL LUG CONNECTIONS SHALL BE 2 HOLE LONG BARREL COMPRESSION TYPE OR APPROVED EQUAL
21. REMOVAL ALL PAINT AND CLEAN ALL DIRT FROM SURFACES REQUIRING GROUND CONNECTIONS. SURFACES SHOULD BE REPAINTED TO MATCH (AFTER CONNECTION IS MADE) TO MAINTAIN CORROSION RESISTANCE.
22. REPAIR ALL GALVANIZED SURFACES THAT HAVE BEEN DAMAGED BY EXOTHERMIC WELDING; USE SPRAY GALVANIZER
23. WHERE MECHANICAL CONNECTORS ARE USED, APPLY A LIBERAL PROTECTIVE COATING OF AN ANTI-OXIDE COMPOUND ON ALL CONNECTORS
24. THE TOWER BASE GROUND BUSBAR SHALL BE INSTALLED BELOW THE TRANSMISSION LINE GROUND KITS, NEAR THE AREA OF THE TOWER WHERE THE ANTENNA TRANSMISSION LINES TRANSITION FROM THE TOWER TO THE EQUIPMENT/ICE BRIDGE.
25. CONTRACTOR SHALL NOTIFY THE CONSTRUCTION MANAGER WHEN THE GROUND RING IS INSTALLED SO THAT IT CAN BE INSPECTED PRIOR TO BACKFILL

PREPARED FOR:



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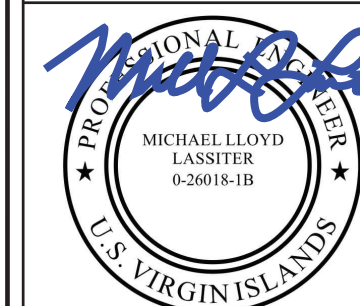
CARRIER:



PREPARED BY:



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MICHAEL LLOYD LASSITER, P.E. 10/14/22  
 USVI LICENSE NO. #0-26018-1B

DRAWN BY: JL  
 CHECKED BY: BJW  
 PROJECT NO: AES22-12323

SUBMITTALS				
DATE	DESCRIPTION	REV	ISSUED BY	
05/12/22	PRELIMINARY	A	JL	JL
6/17/22	PRELIMINARY	B	JL	JL
7/06/22	FOR CONSTRUCTION	0	JL	JL
10/14/22	CLIENT COMMENT	1	JL	JL
11/11/22	CLIENT COMMENT	2	JL	JL
11/21/22	CLIENT COMMENT	3	JL	JL

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**SITE NAME:**  
 CLAIRMONT

**SITE ADDRESS:**  
 73 CLAIRMONT  
 CHRISTIANSTED, USVI 00820

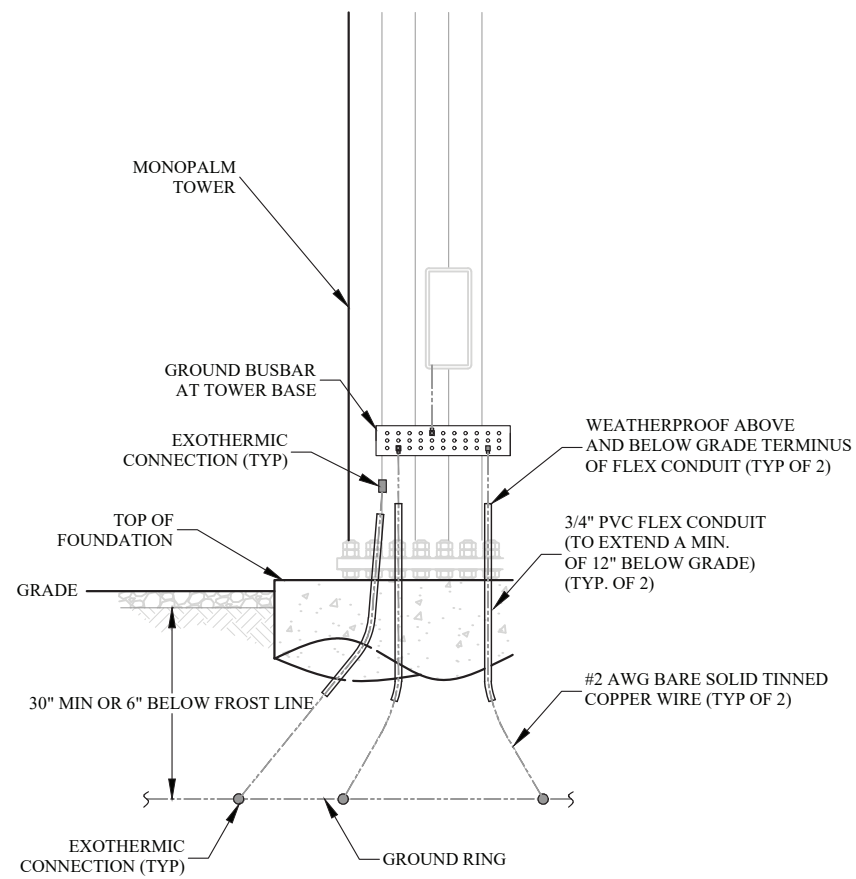
**SITE ID:**  
 VI020

**SHEET TITLE**  
 GROUNDING PLAN

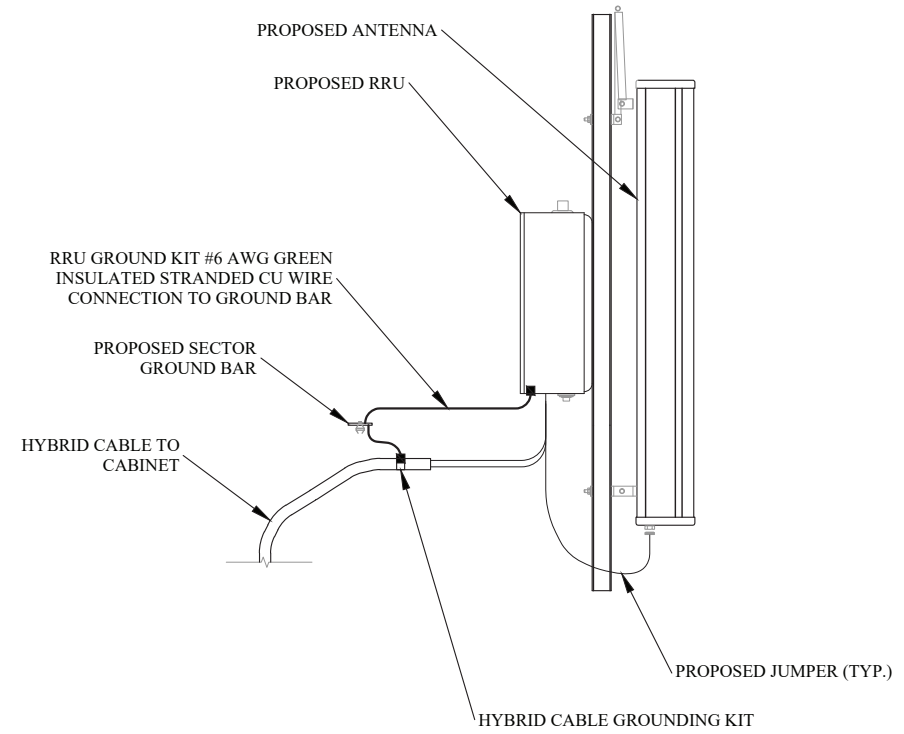
**SHEET NUMBER**  
 G-2



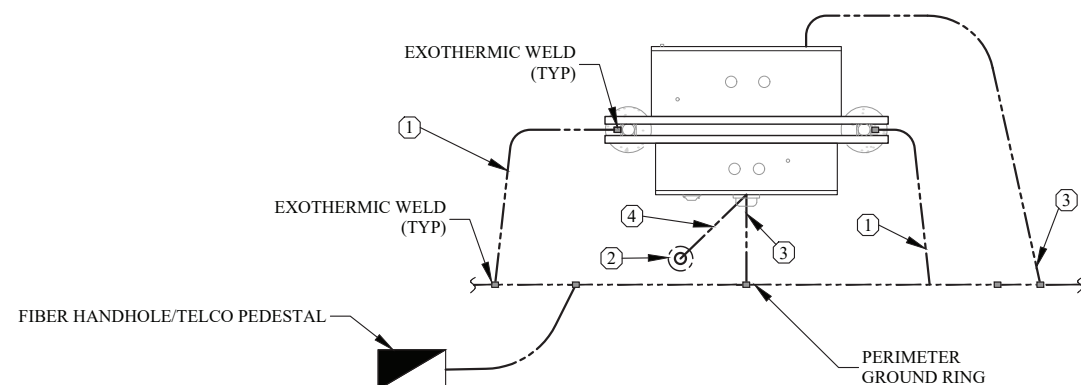
## GROUNDING AT TOWER BASE



## ANTENNA AND CABLE GROUND DETAIL



## UTILITY RACK GROUNDING DIAGRAM



- ① #2 AWG BARE SOLID TINNED COPPER CONDUCTOR FROM H-FRAME TO GROUND RING (TYP)
- ② GROUND ROD AND TEST WELL (TYP)
- ③ #2 AWG BARE SOLID TINNED COPPER CONDUCTOR FROM ALL METAL CABINETS ON BACKBOARD TO GROUND RING (TYP)...GROUND RING CONNECTION EXOTHERMIC, METAL CABINET CONNECTION MECHANICAL
- ④ BOND #6 AWG INSULATED CONDUCTOR FROM METER PANEL AND DISCONNECT TO SEPARATE GROUND

### NOTES:

1. EXACT LAYOUT AND COMPONENTS OF UTILITY RACK GROUNDING MAY CHANGE BASED ON OWNER/TENANT REQUIREMENTS. CONTRACTOR TO COORDINATE WITH OWNER PRIOR TO BID REGARDING POTENTIAL MODIFICATIONS.

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MICHAEL LLOYD LASSITER, P.E. 10/14/22  
USVI LICENSE NO. #0-26018-1B

DRAWN BY: JL

CHECKED BY: BJW

PROJECT NO: AES22-12323

### SUBMITTALS

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### SITE NAME:

CLAIRMONT

### SITE ADDRESS:

73 CLAIRMONT  
CHRISTIANSTED, USVI 00820

### SITE ID:

VI020

### SHEET TITLE

GROUNDING DETAILS

### SHEET NUMBER

G-3

**GENERAL NOTES**

- THE SCOPE OF WORK DEPICTED IN THIS PLANSET MUST BE COMPLETED UNLESS NOTED OTHERWISE. THE CONTRACTOR MUST HAVE SUBSTANTIAL EXPERIENCE IN PERFORMANCE OF WORK SIMILAR TO THAT DESCRIBED HEREIN. BY ACCEPTANCE OF THIS PROJECT, THE CONTRACTOR IS CONFIRMING THAT HE DOES HAVE SUFFICIENT EXPERIENCE AND ABILITY TO COMPLETE THE WORK, THAT HE IS KNOWLEDGEABLE OF THE SCOPE OF WORK TO BE PERFORMED AND THAT HE IS LICENSED AND PROPERLY REGISTERED TO DO THIS WORK IN THE STATE AND/OR COUNTY IN WHICH IT IS TO BE PERFORMED.
- ALL WORK SHALL BE COMPLETED IN ACCORDANCE WITH THE LATEST VERSION OF THE LOCAL AND NATIONAL BUILDING CODE, WHICHEVER IS MORE STRINGENT.
- SHOP DRAWINGS AND/OR MANUFACTURER'S SPECIFICATIONS AND INSTALLATION INSTRUCTIONS REGARDING ANY HARDWARE, INFRASTRUCTURE, OR MATERIALS SPECIFIED HEREIN SHALL BE FOLLOWED EXACTLY AND SHALL SUPERCEDE ANY CONFLICTING INFORMATION CONTAINED HEREIN.
- THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL REQUIRED PERMITS NOT PROVIDED BY OWNER. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH PERMITS AS ISSUED AND ANY AND ALL APPLICABLE STATE, COUNTY, AND LOCAL CODES.
- THE CONTRACTOR SHALL VERIFY ALL EXISTING TOPOGRAPHY, DIMENSIONS, ELEVATIONS, AND EXISTING CONDITIONS ARE AS INDICATED ON THESE DRAWINGS. ADDITIONALLY, THE CONTRACTOR SHALL ESTABLISH THE LOCATION OF UNDERGROUND AND OVERHEAD UTILITIES AND SERVICES. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER AND OWNER'S ENGINEER FOR RESOLUTION AND/OR MODIFICATION PRIOR TO COMMENCEMENT OF THE WORK.
- EXISTING IMPROVEMENTS DAMAGED OR DESTROYED AS A RESULT OF CONSTRUCTION OPERATIONS SHALL BE REPLACED OR RESTORED TO THEIR ORIGINAL CONDITION OR BETTER, AND TO THE SATISFACTION OF THE OWNER OF THE IMPROVEMENTS
- THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL INSPECTIONS, CERTIFICATIONS, AND/OR ANY OTHER REQUIREMENTS WHICH MUST BE MET TO FULFILL THE SCOPE OF WORK AS REPRESENTED IN THIS PLAN SET, OBTAIN A CERTIFICATE OF OCCUPANCY, OR OTHERWISE ALLOW FOR THE FULL INTENDED USE OF THE PROPOSED FACILITY
- THESE PLANS/DRAWINGS DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES. OBSERVATION VISITS TO THE SITE BY THE OWNER AND/OR ENGINEER SHALL NOT INCLUDE INSPECTION OF THE CONSTRUCTION PROCEDURES AND DOES NOT ALLEVIATE CONTRACTOR FROM THE FOREGOING. ENGINEER AND/OR OWNER DISCLAIM ANY ROLE IN THE CONSTRUCTION MEANS AND/OR METHODS ASSOCIATED WITH THE PROJECT AS SET FORTH IN THESE PLANS.
- IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO DETERMINE AND IMPLEMENT BOTH THE ERECTION PROCEDURE AND SEQUENCE TO ENSURE THE SAFETY OF THE STRUCTURE, ALL SURROUNDING INFRASTRUCTURE, WORKSPACE, EMPLOYEES, AND PUBLIC DURING ERECTION AND/OR MODIFICATIONS. THIS INCLUDES BUT IS NOT LIMITED TO TEMPORARY BRACING, GUYS, TIE DOWNS, OR OTHER SUPPORTS THAT MAY BE NECESSARY DURING CONSTRUCTION.
- ALL MATERIALS AND EQUIPMENT FURNISHED SHALL BE NEW AND OF GOOD QUALITY, FREE FROM DEFECTS AND IN CONFORMANCE WITH THE CONTRACT DOCUMENTS. ANY AND ALL SUBSTITUTION MUST BE PROPERLY APPROVED AND AUTHORIZED IN WRITING BY THE OWNER AND ENGINEER PRIOR TO INSTALLATION.
- IF DEVIATIONS FROM THE DRAWINGS OR SPECIFICATIONS ARE DEEMED NECESSARY BY THE CONTRACTOR, DETAILS OF SUCH DEVIATION AND REASONS THEREOF SHALL BE SUBMITTED TO THE OWNER AND ENGINEER FOR REVIEW. NO DEVIATIONS FROM THE CONTRACT DOCUMENTS SHALL BE MADE WITHOUT THE EXPRESS WRITTEN PERMISSION OF THE OWNER AND/OR ENGINEER
- THE CONTRACTOR MUST, AT ALL TIMES, KEEP THE PREMISES FREE FROM ACCUMULATIONS OF WASTE MATERIALS OR RUBBISH CAUSED BY HIM, HIS EMPLOYEES, OR HIS WORK. ALL DEBRIS SHALL BE REMOVED FROM THE PROJECT SITE ON A DAILY BASIS
- CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS (INCLUDING THE GENERAL PUBLIC) AND PROPERTY (INCLUDING ADJOINING PROPERTIES). THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS. CONTRACTOR FURTHER AGREES TO DEFEND, INDEMNIFY, AND HOLD THE OWNER AND DESIGN PROFESSIONAL HARMLESS OF ANY AND ALL LIABILITY REAL OR ALLEGED IN CONNECTION WITH THE PERFORMANCE OF THE WORK ON THIS PROJECT, EXCEPTING LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR DESIGN PROFESSIONAL.

**GENERAL NOTES (CONT.)**

- THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT ALL WORK ASSOCIATED WITH THIS PROJECT COMPLIES WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL SAFETY CODES AND OTHER REGULATIONS GOVERNING THE WORK.
- ACCESS TO THE PROPOSED SITE MAY BE RESTRICTED. THE CONTRACTOR SHALL COORDINATE WITH THE OWNER OR THE OWNER'S REPRESENTATIVE REGARDING ALL CONSTRUCTION ACTIVITY, INCLUDING WORK SCHEDULE AND MATERIAL ACCESS.

**EXISTING INFRASTRUCTURE**

- EXISTING TOPOGRAPHIC, UTILITY, PLANIMETRIC, AND BOUNDARY INFORMATION IS TAKEN FROM A DRAWING ENTITLED "CLAIRMONT" AND DATED MARCH 26, 2022 BY THE GREEN PIECE ENGINEERING + ENVIRONMENT, LLC. 5001-12 CHANDLER'S WHARF, CHRISTIANSTED, USVI 00820; (340) 778-7474
- THE CONTRACTOR SHALL VERIFY THE LOCATION AND ELEVATION OF ALL UNDERGROUND UTILITIES IN THE AREA OF ANY PROPOSED CONSTRUCTION OR PROPOSED DISTURBANCE DUE TO CONSTRUCTION. THE LOCATION OF ALL EXISTING UTILITIES ARE NOT NECESSARILY SHOWN ON THE PLANS AND WHERE SHOWN ARE ONLY APPROXIMATE. THE CONTRACTOR SHALL ON HIS INITIATIVE AND AT NO EXTRA COSTS LOCATE ALL UNDERGROUND LINES AND STRUCTURES AS NECESSARY. NO CLAIMS FOR DAMAGES OR EXTRA COMPENSATION SHALL ACCRUE TO THE CONTRACTOR FROM THE PRESENCE OF SUCH PIPE, OTHER OBSTRUCTIONS OR FROM ANY DELAY DUE TO REMOVAL OR REARRANGEMENT OF THE SAME. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO UNDERGROUND STRUCTURES AND IS RESPONSIBLE FOR CONTACTING ALL NON-SUBSCRIBING UTILITIES. CONTACT ENGINEER IMMEDIATELY IF LOCATION OR ELEVATION IS DIFFERENT FROM THAT SHOWN ON THE PLANS OR IF THERE APPEARS TO BE A CONFLICT BETWEEN EXISTING AND PROPOSED UTILITY LOCATIONS.

**UTILITIES**

- CONTRACTOR SHALL COORDINATE WITH THE OWNER REGARDING THE REQUIREMENTS AND LIMITS OF CLEARANCE FOR OVERHEAD AND/OR UNDERGROUND ELECTRICAL SERVICE
- ALL UNDERGROUND UTILITIES SHALL BE INSTALLED AND TESTED SATISFACTORILY PRIOR TO COMMENCING ANY PAVING ACTIVITY WHERE SUCH UTILITIES ARE WITHIN THE LIMITS OF PAVEMENT
- UNLESS OTHERWISE SPECIFIED HEREIN, MINIMUM COVER FOR CONDUITS SHALL BE 36-INCHES

**GRADING**

- CONTRACTOR IS TO CONTACT USVI 811, INC. FOR UNDERGROUND UTILITY LOCATION 48 HOURS PRIOR TO ANY GROUND DISTURBANCE.
- ALL CONSTRUCTION AREAS ARE TO BE CLEARED, GRUBBED AND STRIPPED OF TOPSOIL, ORGANICS AND UNSUITABLE MATERIALS PRIOR TO GRADING AND IN ACCORDANCE WITH THE RECOMMENDATIONS SET FORTH IN THE GEOTECHNICAL REPORT.
- EXCAVATIONS SHOULD BE SLOPED OR SHORED IN ACCORDANCE AND COMPLIANCE WITH OSHA 29 CFR PART 1926, EXCAVATION TRENCH SAFETY STANDARDS AS WELL AS LOCAL, STATE AND FEDERAL REGULATIONS.
- ALL FILL PLACEMENT INCLUDING SUITABILITY OF FILL MATERIALS AND COMPACTION OF MATERIALS SHOULD BE CONDUCTED IN ACCORDANCE WITH THE RECOMMENDATIONS SET FORTH IN THE GEOTECHNICAL REPORT. IN THE ABSENCE OF FILL SPECIFICATIONS, THE FOLLOWING MINIMUM REQUIREMENTS SHOULD BE ADHERED TO:

- FILL LIFT THICKNESS SHOULD NOT EXCEED 8 INCHES LOOSE.
- FILL MATERIALS SHOULD NOT BE PLACED ON SATURATED OR FROZEN SURFACES
- FILL MATERIALS SHALL BE FREE OF FROZEN PARTICLES, BRUSH, ROOTS, SOD, OR OTHER OBJECTIONABLE MATERIALS THAT WOULD PREVENT THE CONSTRUCTION AND/OR COMPACTION OF SATISFACTORY FILLS. THIS INCLUDES SOFT, MUCKY, OR HIGHLY COMPRESSIBLE MATERIALS
- ALL FILLS SHOULD BE COMPACTED AS REQUIRED TO REDUCE EROSION, SLIPPAGE, SETTLEMENT, SUBSIDENCE, OR OTHER RELATED PROBLEMS. ALL FILL AREAS WITHIN BUILDINGS OR OTHER STRUCTURES, TRAVEL/ACCESS ROUTES, PARKING AREAS AND EXTENDING 5-FT (MINIMUM) OUTSIDE OF THOSE AREAS' FOOTPRINT, SHOULD BE COMPACTED TO +/- 95% OF MAXIMUM DRY DENSITY OF THE MATERIAL AS OBTAINED BY THE STANDARD PROCTOR METHOD.

\* DELTA OAKS GROUP MAKES NO CLAIM TO THE VALIDITY OF THESE RECOMMENDATIONS TO THE SITE'S SPECIFIC GEOTECHNICAL CONDITIONS AND STRONGLY RECOMMENDS A SITE-SPECIFIC GEOTECHNICAL INVESTIGATION BE PERFORMED. ANY AND ALL FILL RECOMMENDATIONS PRESENTED IN SUCH A REPORT WILL TAKE PRECEDENCE OVER THE INFORMATION PRESENTED HEREIN.

**GRADING (CONT.)**

- THE CONTRACTOR SHALL REWORK ALL MATERIALS NOT SUITABLE FOR USE IN THEIR PRESENT STATE DUE TO MOISTURE CONTENT VARIATION. IF THE MATERIAL REMAINS UNSUITABLE AFTER INITIAL REWORKING, THE CONTRACTOR SHALL REMOVE AND REPLACE WITH NEW MATERIAL IN ACCORDANCE WITH THE GEOTECHNICAL REPORT RECOMMENDATIONS.
- IN THE ABSENCE OF A GEOTECHNICAL REPORT A GEOTECHNICAL ENGINEER SHOULD BE RETAINED TO PROVIDE SITE SPECIFIC RECOMMENDATIONS/OVERSIGHT.
- DELTA OAKS GROUP MAKES NO CLAIMS TO THE SUITABILITY OF ANY ON-SITE MATERIALS FOR USE AS FILL TO SUPPORT ANY PROPOSED INFRASTRUCTURE.
- SPOT ELEVATIONS REPRESENT FINISHED GRADE UNLESS OTHERWISE NOTED.
- ALL TEMPORARY AND FINISHED GRADES MUST MAINTAIN ADEQUATE SURFACE DRAINAGE SO THAT RUN-OFF IS DIRECTED TO DEDICATED OFF-SITE AREAS OR TO ON-SITE COLLECTION POINTS SUCH AS SWALES, CATCH BASINS, DROP INLETS, CULVERTS, STORMWATER BMP'S, ETC. TO PREVENT SURFACE PONDING, STANDING WATER, OR EXTENDED PERIODS OF SOIL SATURATION.

**EROSION AND SEDIMENT CONTROL**

- THE DENUDED AREA IS APPROXIMATELY 4,192 SQUARE FEET.
- THE RECEIVING WATER COURSE IS SALT RIVER.
- THIS SITE IS NOT LOCATED IN A FEMA SPECIAL FLOOD HAZARD AREA PER FIRM #780000059G WITH EFFECTIVE DATE APRIL 16, 2017.
- CUT AND FILL SLOPES SHOULD BE STABILIZED WITHIN 15 DAYS DURING ANY PHASE OF GRADING
- STREETS ADJACENT TO THE PROJECT SHALL BE KEPT CLEAN AT ALL TIMES FROM SEDIMENT OR OTHER CONSTRUCTION GENERATED MATERIAL OR A WASH STATION WILL BE REQUIRED
- THE CONTRACTOR SHALL COMPLY WITH ALL GOVERNING REGULATIONS REGARDING EROSION AND SEDIMENT CONTROL FOR THE AGENCY HAVING JURISDICTION OVER CLEARING AND GRADING PROCEDURES. UTILIZE BEST MANAGEMENT PRACTICES (BMPs) DESCRIBED IN THE GOVERNING AGENCY'S OR APPLICABLE STATE'S CODE IN ORDER TO BOTH PREVENT/MINIMIZE CONCENTRATED FLOWS THROUGH OR ACROSS UNSTABILIZED/DENUDED AREAS AND PREVENT/MINIMIZE SEDIMENT LADEN STORMWATER RUNOFF FROM LEAVING THE CONSTRUCTION SITE. SPECIFIC BMP EXAMPLES INCLUDE SILT FENCE, CONSTRUCTION ENTRANCE(S), PERIMETER DIVERSION SWALES, INLET PROTECTION, AND OTHER APPLICABLE MEASURES.
- CONTRACTOR AND/OR OWNER SHALL BE RESPONSIBLE FOR THE IMPLEMENTATION AND MAINTENANCE OF ALL EROSION AND SEDIMENT CONTROL DEVICES SPECIFIED HEREIN AND ANY ADDITIONAL CONTROLS THAT MAY BECOME NECESSARY IN ORDER TO ENSURE THE PROTECTION OF ADJACENT PROPERTIES AND WATERWAYS. ALL TEMPORARY DEVICES SHALL BE APPROPRIATELY MAINTAINED UNTIL ALL EARTH DISTURBING ACTIVITIES HAVE CEASED AND THE PROJECT IS STABILIZED AND APPROVED.
- EROSION CONTROL MEASURES SHALL BE CHECKED DAILY AND IMMEDIATELY FOLLOWING ANY RAINFALL EVENTS. ANY NOTED DEFICIENCIES WILL BE CORRECTED IMMEDIATELY (NO LATER THAN THE END OF EACH DAY). IMMEDIATELY UPON THE DISCOVERY OF UNFORESEEN CIRCUMSTANCES THAT POSE THE POTENTIAL FOR ACCELERATED EROSION AND/OR SEDIMENT POLLUTION, THE CONTRACTOR SHALL IMPLEMENT APPROPRIATE BMPs TO MINIMIZE THE POTENTIAL FOR EROSION AND SEDIMENTATION.
- ALL DENUDED CUT/FILL SLOPES STEEPER THAN OR EQUAL TO 3:1 SHALL BE PROTECTED WITH NORTH AMERICAN GREEN SC125 OR EQUIVALENT UNLESS ALTERNATIVE SLOPE PROTECTION MEASURES ARE APPROVED
- ALL CONSTRUCTION TRAFFIC SHALL ENTER AND EXIT THE SITE VIA THE CONSTRUCTION ENTRANCES

**PANEL SCHEDULE**

- SERVICE BOND IS TO BE MADE BY DEVICES (STRAPS, SCREWS, ETC. SUPPLIED BY EQUIPMENT MANUFACTURER. IF NO SUCH DEVICE IS SUPPLIED, BOND IS TO BE MADE IN ACCORDANCE WITH NEC ARTICLE 250.
- CONDUCTOR OVERCURRENT PROTECTION DEVICES ARE SELECTED IN ACCORDANCE WITH NEC ARTICLE 240-3.
- CONDUCTOR SIZING IS SELECTED FROM NEC ARTICLE 310-16
- ALL LUGS THAT HOLD MORE THAN ONE WIRE SHALL BE LISTED FOR MULTI-BARREL CONNECTIONS
- ALL CONDUCTORS SHALL BE INSULATED THHN WIRE

**INFRA TOWERS REQUIREMENTS**

- UPON ISSUANCE OF BID AWARD, CONTRACTOR WILL BE REQUIRED TO PROVIDE PROOF OF LICENSE TO PERFORM WORK IN APPLICABLE JURISDICTION
- CONTRACTOR WILL PROVIDE A CONSTRUCTION SCHEDULE PRIOR TO COMMENCEMENT OF CONSTRUCTION. SCHEDULE SHALL BE UPDATED IMMEDIATELY AND SUBMITTED TO OWNER IN EVENT OF DELAYS OR REQUIRED TIME EXTENSIONS. ALL DELAYS AND/OR TIME EXTENSIONS WILL BE ACCOMPANIED BY EXPLANATIONS FOR EACH OCCURRENCE.
- DURING CONSTRUCTION, CONTRACTOR SHALL PROVIDE OWNER OR OWNER'S REPRESENTATIVE WITH PHOTOGRAPHS OF MAJOR CONSTRUCTION MILESTONES AS THEY OCCUR.
- CONTRACTOR OR CONTRACTOR'S REPRESENTATIVE SHALL BE PREPARED TO ATTEND WEEKLY CONFERENCE CALLS WHERE SPECIFIC DETAILS, INCLUDING PROGRESS REPORTS, UNFORESEEN SITE CONDITIONS, SCHEDULE CHANGES, SAFETY CONCERNS, ETC. REGARDING THE SITE WILL BE DISCUSSED.
- CONTRACTOR WILL UTILIZE, ADHERE TO, AND SUBMIT (AS REQUIRED) ALL OWNER PROVIDED DOCUMENTATION.
- CONTRACTOR IS RESPONSIBLE FOR CONDUCTION OF ALL CONCRETE COMPRESSIVE STRENGTH TESTING (INCLUDING THE SUBMITTAL OF FINAL TESTING RESULTS AND CLOSE-OUT BOOK)
- CONTRACTOR IS RESPONSIBLE FOR ALL GRADING AND FILL COMPACTION TESTING REQUIRED AS SET FORTH IN THE GEOTECHNICAL REPORT PROVIDED BY OWNER.
- CONTRACTOR IS RESPONSIBLE FOR GROUND MEG TESTING.
- CONTRACTOR SHALL ASSIST IN COORDINATING AND OBTAINING PRIMARY POWER TO THE SITE PRIOR TO TOWER ERECTION. CONTRACTOR SHALL ALSO ASSIST IN COORDINATING AND OBTAINING TELCO/FIBER SERVICE PRIOR TO PROJECT COMPLETION (ON SITE VISITS WITH UTILITY COMPANY REPRESENTATIVES AS NECESSARY).
- CONTRACTOR SHOULD BE PREPARED FOR RANDOM SAFETY INSPECTIONS AT ALL TIMES.
- CONTRACTOR IS EXPECTED TO MAINTAIN PROPER WORKING CONDITIONS AND PROCEDURES PER OSHA STANDARDS AT ALL TIMES.
- CONTRACTOR WILL BE REQUIRED TO OBTAIN ALL NECESSARY CONSTRUCTION AND/OR CLOSE-OUT RELATED PERMITS, INCLUDING ELECTRICAL PERMITS AND INSPECTIONS, CERTIFICATES OF OCCUPANCY, ETC. AS REQUIRED BY JURISDICTION.
- CONTRACTOR IS EXPECTED TO CLOSE-OUT THE JOB SITE AS QUICKLY AS POSSIBLE (OBTAINING A CERTIFICATE OF OCCUPANCY AND GETTING OWNER'S SIGN-OFF ON THE SITE).
- CONTRACTOR WILL PROVIDE A COMPLETED TOWER HEIGHT VERIFICATION FORM AND TAPE DROP WITHIN 24 HOURS OF REACHING OVERALL HEIGHT.

**SEEDBED PREPARATION**

- SCARIFY COMPACTED AREAS AND REMOVE ALL LOOSE ROCK, ROOTS, AND OTHER OBSTRUCTIONS LEAVING SURFACE REASONABLY SMOOTH AND UNIFORM. FILL ANY EXISTING RILLS AND GULLIES
- IMMEDIATELY PRIOR TO SPREADING TOPSOIL, CORRECT PH OF THE SUBSOIL WITH LIME PER RECOMMENDATION OF SOILS TEST OR AT A RATE SUITABLE TO THE SITE CONDITIONS. LOOSEN THE SUBGRADE OF THE SITE TO RECEIVE THE TOPSOIL BY DISKING OR SCARIFYING TO A DEPTH OF AT LEAST 2-INCHES TO ENSURE BONDING OF THE TOPSOIL AND SUBSOIL.
- UNIFORMLY SPREAD TOPSOIL 3-INCHES DEEP IN AREAS AS REQUIRED
- APPLY LIME AND/OR FERTILIZER AS NECESSARY AND TILL SOIL UNTIL A WELL-MIXED, PULVERIZED, FIRM, REASONABLY UNIFORM SEEDBED IS PREPARED. THE PREPARED SEEDBED SHOULD BE 4 TO 6 INCHES DEEP.
- SEED A FRESHLY PREPARED SEEDBED AND COVER SEED LIGHTLY WITH SEEDING EQUIPMENT OR CULTIPACK AFTER SEEDING
- MULCH IMMEDIATELY AFTER SEEDING AND ANCHOR MULCH
- INSPECT ALL SEEDED AREAS AND MAKE NECESSARY REPAIRS OR RESEEDINGS WITHIN THE PLANTING SEASON, IF POSSIBLE. IF STAND SHOULD BE OVER 70% DAMAGED, REESTABLISH FOLLOWING ORIGINAL LIME, FERTILIZER AND SEEDING RATES

PREPARED FOR:



CARRIER:



PREPARED BY:



MICHAEL LLOYD LASSITER, P.E. 10/14/22  
USVI LICENSE NO. #0-26018-1B

DRAWN BY: JL  
CHECKED BY: BJW  
PROJECT NO: AES22-12323

SUBMITTALS			
DATE	DESCRIPTION	REV	ISSUED BY
05/12/22	PRELIMINARY	A	JL
6/17/22	PRELIMINARY	B	JL
7/06/22	FOR CONSTRUCTION	0	JL
10/14/22	CLIENT COMMENT	1	JL
11/11/22	CLIENT COMMENT	2	JL
11/21/22	CLIENT COMMENT	3	JL

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**SITE NAME:**  
CLAIRMONT

**SITE ADDRESS:**  
73 CLAIRMONT  
CHRISTIANSTED, USVI 00820

**SITE ID:**  
VI020

**SHEET TITLE**  
GENERAL NOTES

**SHEET NUMBER**  
GN-1