

GOVERNMENT OF THE VIRGIN ISLANDS OF THE UNITED STATES

Project No.	Sheet No.	Total Sheets
PW-13	A1	7

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DEPARTMENT OF PUBLIC WORKS

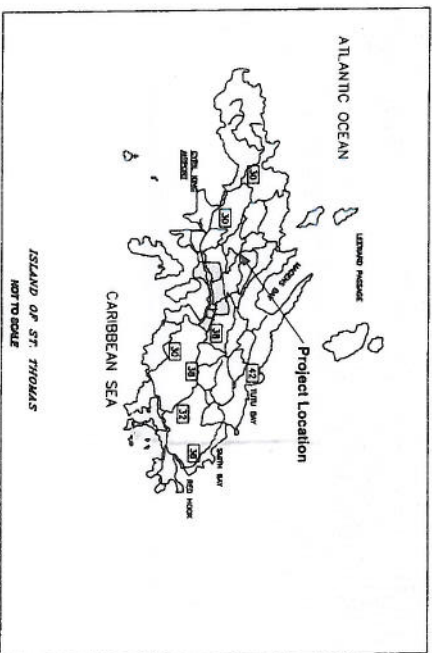
PLANS FOR THE CONSTRUCTION OF
FEMA PROJECT NO. 1948 DRVI PUBLIC WORKS
PW-13 (LILIENTDAL ROAD)

DESCRIPTION OF PROJECT
The project within these pages is in response to various damages done to island of St. Thomas due to the hurricane season of 2010. Liliendal and Marthenhof have suffered a partial collapse of their road.

PROJECT LENGTHS: 70 Linear Feet

LEGEND

- WATER VALVE/METER
- MANHOLE
- SANITARY MANHOLE
- TELEPHONE UTILITY MANHOLE
- UTILITY POLE
- FENCE LINE
- GUARD RAIL
- BOUNDARY MARKER
- UTILITY VAULT
- SIGN
- MONITORING WELL
- CONCRETE SIDEWALK
- PAVED WATERWAY TYPE IV
- RIP RAP
- CONCRETE DRIVE PAD
- FILL DEPTH PAVEMENT
- MILL AND OVERLAY
- NORTH ARROW



DEPARTMENT OF PUBLIC WORKS
DIVISION OF ENGINEERING
8244 SUB BASE
ST. THOMAS, USVI 00002

Approved: _____
Date: _____
Checked: _____
Drawn: _____
Designed: _____
Reviewed: _____
Department of Public Works, Division of Engineering

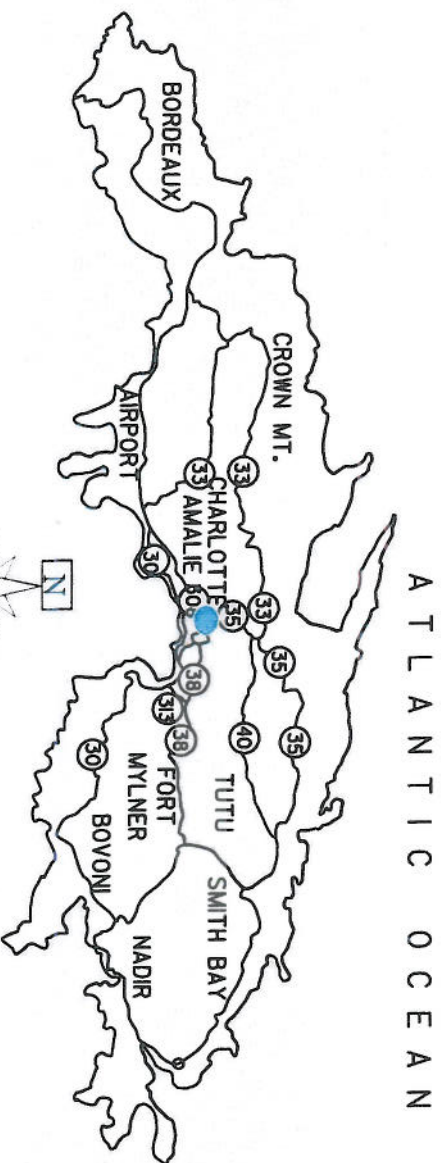
**FEMA Project No. 1948 DRVI Public Works
PW-13 (Liliendal Road)**



Cover Page

A 1

LOCATION MAP



CARIBBEAN SEA

ATLANTIC OCEAN

PROJECT

ST. THOMAS
UNITED STATES VIRGIN ISLANDS
NOT TO SCALE



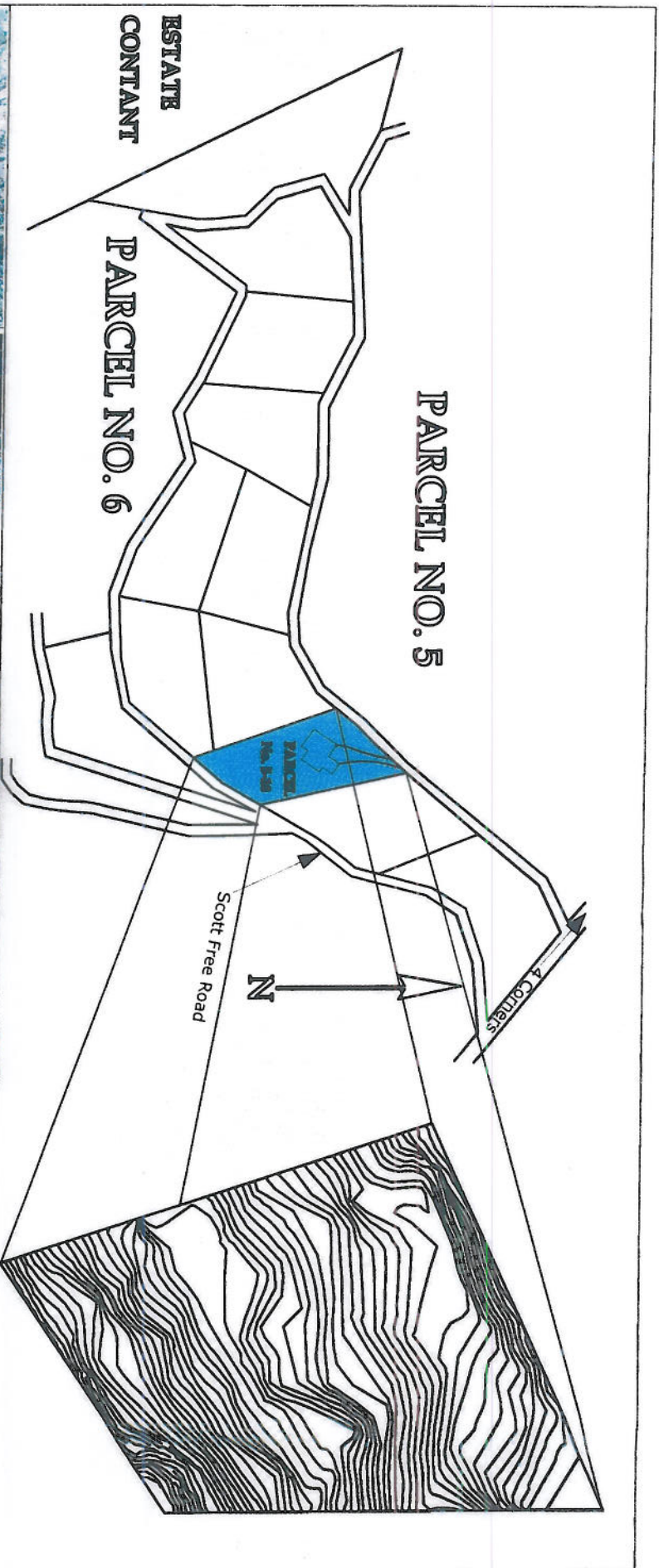
1. Location Map



2. Flood Map



3. Aerial View



ESTATE
CONTANT

PARCEL NO. 6

PARCEL NO. 5

Scott Free Road

N

4 Corners

PROJECT DESCRIPTION

Parcel No 5-18 Liliandal & Marienhof is located along Theodore Boshulte Dr. It is the first left turn after the intesection with Scott Free Road.

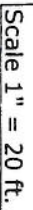
Geometric Coordinates are as followed:

18° 21.074' N

64° 57.134' W



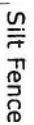
13' 1"



DEPARTMENT OF PUBLIC WORKS

PW-13 (Liliendal Road)

(SECTION A3)



N.T.S

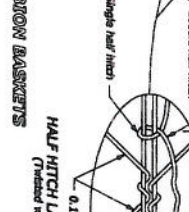
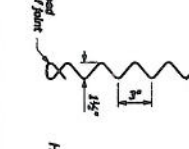
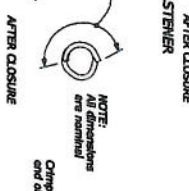
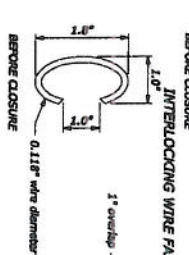
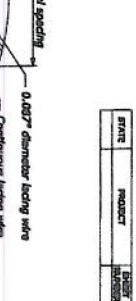
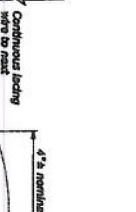
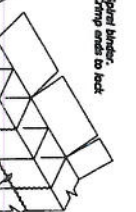
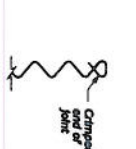
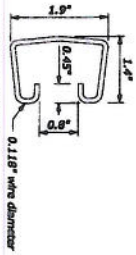
ADDITIONAL INFORMATION

*Please refer to Gabion Detail Page for additional information.

Proposed Construction
(Aerial/Cross Section)

GABION DETAIL

DATE	PROJECT	REVISION



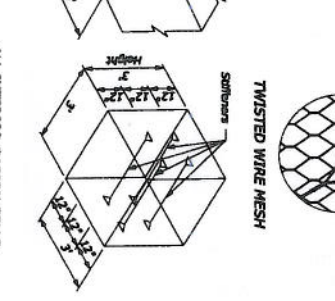
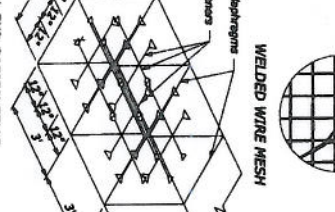
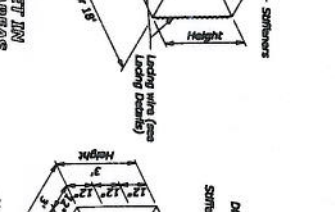
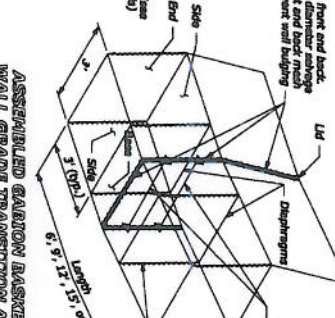
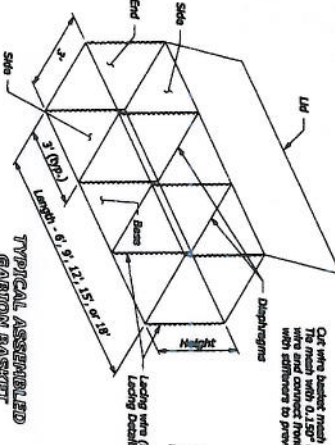
OVERLAPPING RING WIRE FASTENER
(Useful for basket to basket connection)
ALTERNATE TYING FASTENERS

0.150" DIAMETER
SPRAL BINDER

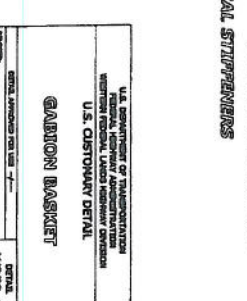
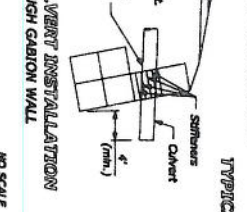
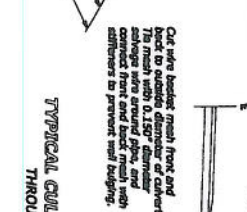
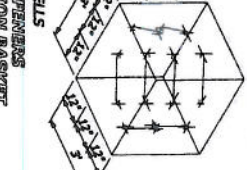
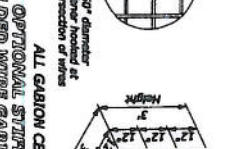
TYPICAL INSTALLATION GABION BASKETS

HALF HITCH LACING DETAIL
(Twisted wire mesh)

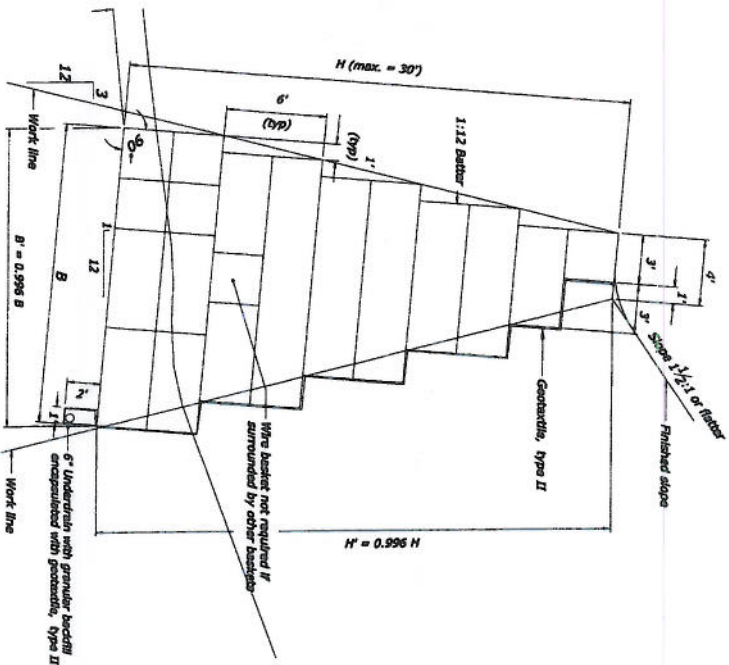
DOUBLE HALF HITCH
Twisted wire mesh



NOMINAL SIZES AND CAPACITY				
Size Code	Size in feet	Depth in feet	Capacity (cu yd)	Capacity (cu m)
A	6	3.0	1.0	0.76
B	9	3.0	1.5	1.14
C	12	3.0	2.0	1.52
D	15	3.0	2.5	1.90
E	18	3.0	3.0	2.28
F	6	4.5	1.5	1.14
G	9	4.5	2.25	1.72
H	12	4.5	3.0	2.28
I	15	4.5	3.75	2.84



GABION COURSES DETAIL



TYPICAL CROSS SECTION

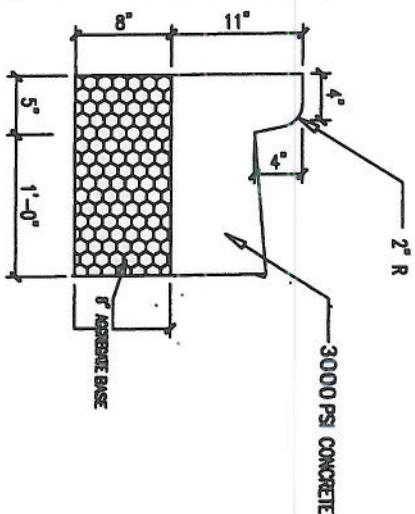
NOTES:
For design and layout, H' and B' may be considered equal to H and B, respectively.

DESIGN DATA

Weight of earth = 120 lbs./cu.ft.
Weight of rock-filled gabions = 110 lbs./cu.ft.
Angle of repose = 34° (1 1/2:1 slope)
Design earth pressure:
Horizontal - 80 lbs./cu.ft. equivalent fluid pressure
Vertical - 40 lbs./cu.ft. equivalent fluid pressure
Fractional height courses (1 or 2 feet) will be permitted only in the top course next to the foundation.
Wire baskets may be omitted from any 3 ft. square section which is surrounded on all four sides by standard baskets and on ends by baskets not less than 6 ft. in length.
Face and compact backfill as the wall is constructed, so that the fill is maintained within 6 ft. of the top of the wall.
Provide underdrain outlets at all low points, and intervals not to exceed 100 feet.

NUMBER OF COURSES	"A" FEET	"B" FEET	GABIONS Cu./yd./lin.ft.
1	3	3	0.333
2	6	6	1.000
3	9	9	2.000
4	12	12	3.000
5	15	15	4.333
6	18	18	5.667
7	21	21	7.333
8	24	24	9.000
9	27	27	11.000
10	30	30	13.000

CURB & GUTTER DETAIL



ASPHALT DETAIL

