

CORPORATE

Signed, acknowledged and notarized on this _____ day of _____, 20____.

WITNESSES:

OWNER:

Sign: _____

Print: _____

Name of Corporation

Sign: _____

Print: _____

By: _____

Name: _____

Title: _____

Address: _____

Note: Florida Statutes requires one of the following: corporate officer's signature attested by the corporate secretary and corporate seal applied; or, corporate seal applied and one witness; or corporate officer's signature and two witnesses.

STATE OF _____

COUNTY OF _____

I HEREBY CERTIFY that the foregoing Unity of Title was acknowledged before me this _____ day of _____, _____, by _____ (name of officer/agent and title) of _____ (name of corporation) He or she () is personally known to me or () has produced _____ as identification.

NOTARY PUBLIC

Name:

State of _____ at large

My commission expires: _____

[STAMP]

*Martin County Growth Management Department
2401 S. E. Monterey Road, Stuart, FL 34996
772-288-5501 www.martin.fl.us*

**EXHIBIT A
(Legal Description)**

Designed:	M.G.C.	xxxxxx
Drawn:	D.W.	
Checked:	M.G.C.	
Approved:	M.G.C.	
Date:	xxxxxx	
Project:	xxxxxx	
File:		
		LEGAL_DESCRIPTION.dwg

[illegible]

A							No.	Date:	Revision:
B									
C									
D									
E									
F									
G									

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1-800-432-4770



FLORIDA STATE AND CO. OF FLORIDA, INC.

The MilCor Group, Inc.
6526 S Kanner Hwy, #236, Stuart, FL 34997
Ph: (772)223-8650 Fax: (772) 223-8651
Web: www.themilcorgroup.com
Certificate of Authorization: 26246

LEGAL DESCRIPTION

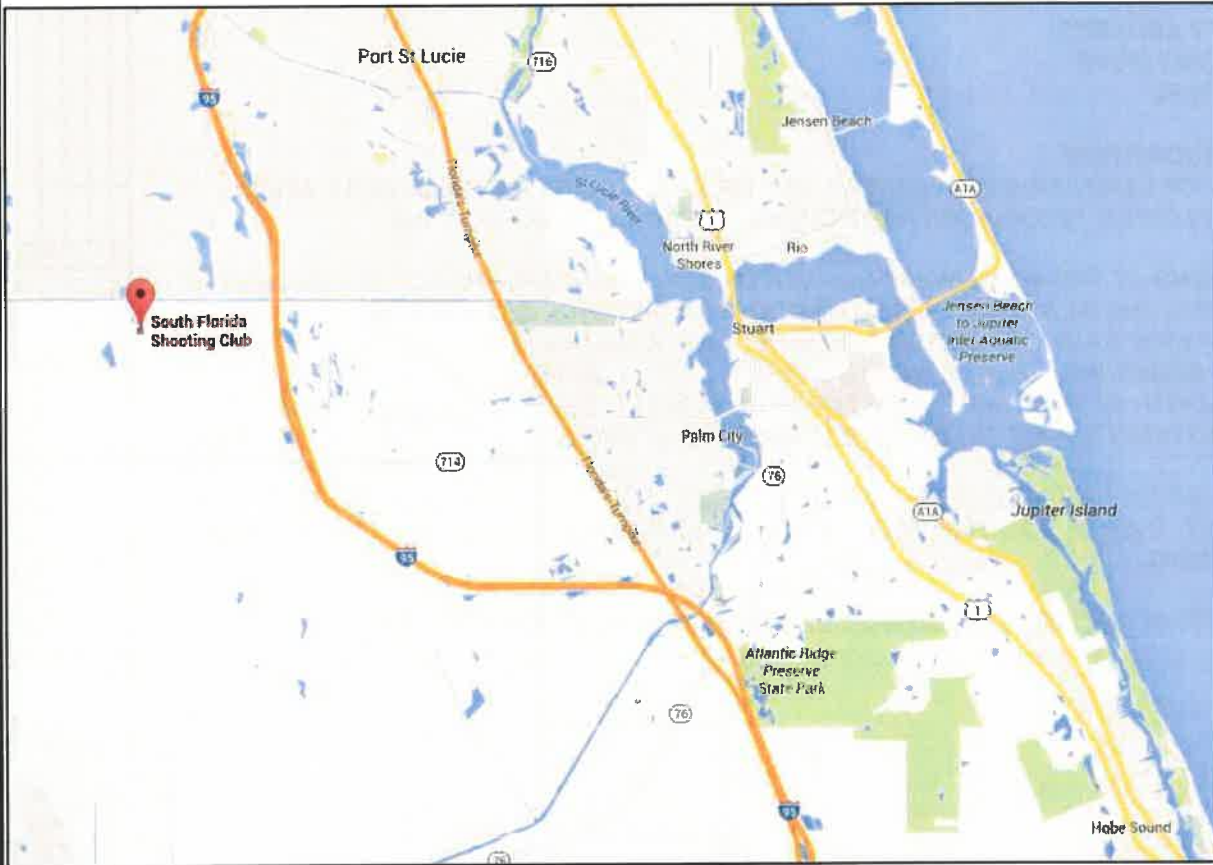
SOUTH FLORIDA SHOOTING CLUB

MARTIN COUNTY, FLORIDA

Sheet No.

1

CONTAINING IN ALL 1,860,858 SQUARE FEET OF 42.72 ACRES, MORE OR LESS.



Designed: M.S.C. Drawn: D.W. Checked: M.S.C. Approved: M.S.C. Date: 11/14/2015 Project: 1402 File:	Location Map.dwg By:
Revision:	
No. Date:	
CALL 88 HOURS BEFORE YOU DIG IT'S THE LAW! 1-800-432-4770 SHOWN EXISTING ONE CALL OF FLORIDA, INC.	
The MilCor Group, Inc. 6526 S. Kerner Hwy. #206, Stuart, FL 34987 Ph: (772) 223-8850 Fax: (772) 223-8851 Web: www.milcorgroup.com Certificate of Authorization: 28248	
LOCATION MAP	
SOUTH FLORIDA SHOOTING CLUB MARTIN COUNTY, FLORIDA	
Sheet No.	
1	

February 2, 2016

South Florida Shooting Grounds

*Engineering
a sustainable
environment*

ADEQUATE PUBLIC FACILITIES

A Certificate of Public Facilities Reservation is requested.

6526 South
Kanner Highway
#236
Stuart
Florida
34997

Phone
772-223-8850
Fax
772-223-8851

Email
marketing@
themilcorgroup.
com

Web
www.
themilcorgroup.
com





**MARTIN COUNTY ENGINEERING DEPARTMENT
ENGINEER'S OPINION OF PROBABLE EXCAVATION, FILL, AND HAULING**

(To be submitted with applications for Master Site Plan or Final Site Plan approval or Excavation and Fill Permits)

NAME OF FINAL SITE PLAN: South Florida Shooting Grounds

TYPE OF APPLICATION

If more than 10,000 cubic yards are hauled to or from the site, the application must be filed as a Major Development

1) Net cubic yards to be excavated: 0
2) Net cubic yards to be filled: 940
3) Cubic yards to be hauled *from* site: 0 (subtract line 2 from line 1)

TYPE OF APPLICATION: MINOR

HAULING FEE CALCULATION

The hauling fee for fill hauled *from* the site is calculated at \$0.21 per cubic yard and is due upon approval of the Final Site Plan application or issuance of the Excavation and Fill Permit

HAULING FEE: \$0.00

Prepared by:

Melissa G. Corbett, P.E.

Professional Engineer's Name

[Signature]
Professional Engineer's Signature / Seal

59292

P.E. No.

12-9-15

Date

The MilCor Group, Inc. #28246

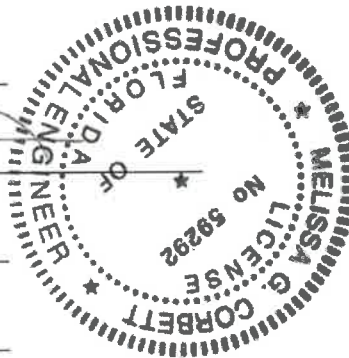
Firm's Name and Certificate of Authorization No. (if applicable)

6526 South Kanner Highway, Stuart, FL 34997

Address

772-223-8850

Phone No.



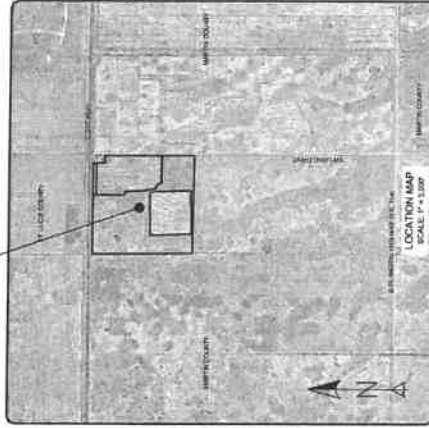
County Engineer's (or designee) Acceptance

CONSTRUCTION PLANS AND SPECIFICATIONS FOR SOUTH FLORIDA SHOOTING CLUB SECTION 04, TOWNSHIP 38 S, RANGE 39 E MARTIN COUNTY, FLORIDA

LOCATION MAP



PROJECT LOCATION



VICINITY MAP

INDEX OF SHEETS

1. COVER
2. OVERALL SITE PLAN
3. LAND CLEARING & DEMOLITION PLAN
4. STORMWATER POLLUTION PREVENTION PLAN
5. HORIZONTAL CONTROL, PAVING, GRADING, DRAINAGE & STRIPING PLAN 1
6. HORIZONTAL CONTROL, PAVING, GRADING, DRAINAGE & STRIPING PLAN 2
7. UTILITY PLAN
8. PAVING, GRADING, DRAINAGE & SEPTIC SYSTEM DETAILS
9. SPECIFICATIONS

LEGAL DESCRIPTION
SECTION 04, TOWNSHIP 38 SOUTH, RANGE 39 EAST, MARTIN COUNTY, FLORIDA, LESS AN UNMARKED ONE-HALF INTEREST IN THE SOUTH FLORIDA SHOOTING CLUB, A FLORIDA CORPORATION MORE PARTICULARLY DESCRIBED AS FOLLOWS:
BEGIN AT THE SOUTH FLORIDA WATER MANAGEMENT DISTRICT'S EASEMENT MARKER IN THE NE CORNER OF SECTION 4 AND RUN NORTH 89 DEGREES 00' 00" WEST 100 FEET, THENCE RUN WEST 100 FEET, THENCE RUN NORTH 89 DEGREES 00' 00" WEST 100 FEET, THENCE RUN EAST TO THE POINT OF BEGINNING.
TOGETHER WITH A NON-EXCLUDING ASSIGNMENT OF RIGHT OF ACCESS AS SHOWN IN TWO CERTAIN ACCESS AND UTILITY EASEMENT RECORDS IN G.C. BOOK 182, PAGE 1162, PUBLIC RECORDS OF MARTIN COUNTY, FLORIDA,
CONTAINING 27,248.230 SQUARE FEET, BEABOUT ACRES, MORE OR LESS.



ALL ELEVATIONS SHOWN HEREIN
REFERENCE THE NORTH AMERICAN
VERTICAL DATUM 1983



ALL ELEVATIONS SHOWN HEREIN
REFERENCE THE NORTH AMERICAN
VERTICAL DATUM 1983

LEGAL DESCRIPTION

SECTION 14, TOWNSHIP 30 NORTH, RANGE 30 EAST, MARTIN COUNTY, FLORIDA, LIES UNIMPROVED
ONE HALF INTEREST BY SUBORDINATE, INC., A FLORIDA CORPORATION MORE PARTICULARLY DESCRIBED
AS FOLLOWS: BEING THAT PORTION OF THE LAND MORE PARTICULARLY DESCRIBED AS BEING
OF SECTION 14 AND TOWNSHIP 30 NORTH, RANGE 30 EAST, MARTIN COUNTY, FLORIDA, LIES UNIMPROVED
THIRTEEN (13) ACRES TO THE POINT OF BEGINNING
TOGETHER WITH A NON-EXCLUSIVE ASSIGNMENT OF RIGHT OF ACCESS AS GRANTED IN THAT CERTAIN
DEED TO THE PUBLIC RECORDS IN CUBA BOOK 1052, PAGE 118, PUBLIC RECORDS OF MARTIN
COUNTY, FLORIDA

FUTURE LAND USE
ZONING: AGRICULTURAL
AGRICULTURAL DISTRICT: AGRICULTURAL DISTRICT
GROSS SITE AREA: 628.8 ACRES
AGRICULTURAL OPERATIONAL: 252.8 ACRES
AGRICULTURAL CORNMENTS: 84.4 ACRES
SHOOTING COURSE: 238.4 ACRES
SHOOTING RANGE: 43.0 ACRES

WETLAND NUMBER	WETLAND ACREAGE	APPROX. ACREAGE	50' BUFFER ACREAGE
WETLAND 8	0.35	0.35	0.72
WETLAND 9	4.10	4.10	2.02
WETLAND 12	0.53	0.53	1.05
WETLAND 13	0.30	0.30	1.24
WETLAND 20	0.87	0.87	0.85
WETLAND 21	1.31	1.31	0.88
WETLAND 22	1.75	1.75	0.89
WETLAND 24	1.75	1.75	1.01
WETLAND 25A	0.45	0.45	0.77
WETLAND 25B	0.77	0.77	1.09
WETLAND 25C	0.33	0.33	0.94
TOTAL	12.81 AC		10.56 AC



EDC
ENGINEERS & SURVEYORS
PORT SAINT LUCIE, FL 34957
1230 AVENUE PARKWAY
SUITE 201
ST. LUCIE, FL 34957
888-242-2426

OVERALL SITE PLAN

SOUTH FLORIDA SHOOTING CLUB

MARTIN COUNTY

PROJECT NO. S188-007


19-SFSC

2 OF 9

DEVELOPMENT TEAM
OWNER: SOUTH FLORIDA SHOOTING CLUB, INC.
DESIGNER: SOUTH FLORIDA SHOOTING CLUB, INC.
ARCHITECT: SOUTH FLORIDA SHOOTING CLUB, INC.
ENGINEER: SOUTH FLORIDA SHOOTING CLUB, INC.
LANDSCAPE ARCHITECT: SOUTH FLORIDA SHOOTING CLUB, INC.
PLANNING: SOUTH FLORIDA SHOOTING CLUB, INC.
CIVIL ENGINEER: SOUTH FLORIDA SHOOTING CLUB, INC.
ELECTRICAL ENGINEER: SOUTH FLORIDA SHOOTING CLUB, INC.
MECHANICAL ENGINEER: SOUTH FLORIDA SHOOTING CLUB, INC.
STRUCTURAL ENGINEER: SOUTH FLORIDA SHOOTING CLUB, INC.
ENVIRONMENTAL ENGINEER: SOUTH FLORIDA SHOOTING CLUB, INC.
GEOLOGICAL ENGINEER: SOUTH FLORIDA SHOOTING CLUB, INC.
HYDROLOGICAL ENGINEER: SOUTH FLORIDA SHOOTING CLUB, INC.
METEOROLOGICAL ENGINEER: SOUTH FLORIDA SHOOTING CLUB, INC.
SOILS ENGINEER: SOUTH FLORIDA SHOOTING CLUB, INC.
WATER RESOURCES ENGINEER: SOUTH FLORIDA SHOOTING CLUB, INC.
TRANSPORTATION ENGINEER: SOUTH FLORIDA SHOOTING CLUB, INC.
TRAFFIC ENGINEER: SOUTH FLORIDA SHOOTING CLUB, INC.
URBAN ENGINEER: SOUTH FLORIDA SHOOTING CLUB, INC.
RURAL ENGINEER: SOUTH FLORIDA SHOOTING CLUB, INC.
CIVIL ENGINEER: SOUTH FLORIDA SHOOTING CLUB, INC.
ELECTRICAL ENGINEER: SOUTH FLORIDA SHOOTING CLUB, INC.
MECHANICAL ENGINEER: SOUTH FLORIDA SHOOTING CLUB, INC.
STRUCTURAL ENGINEER: SOUTH FLORIDA SHOOTING CLUB, INC.
ENVIRONMENTAL ENGINEER: SOUTH FLORIDA SHOOTING CLUB, INC.
GEOLOGICAL ENGINEER: SOUTH FLORIDA SHOOTING CLUB, INC.
HYDROLOGICAL ENGINEER: SOUTH FLORIDA SHOOTING CLUB, INC.
METEOROLOGICAL ENGINEER: SOUTH FLORIDA SHOOTING CLUB, INC.
SOILS ENGINEER: SOUTH FLORIDA SHOOTING CLUB, INC.
WATER RESOURCES ENGINEER: SOUTH FLORIDA SHOOTING CLUB, INC.
TRANSPORTATION ENGINEER: SOUTH FLORIDA SHOOTING CLUB, INC.
TRAFFIC ENGINEER: SOUTH FLORIDA SHOOTING CLUB, INC.
URBAN ENGINEER: SOUTH FLORIDA SHOOTING CLUB, INC.
RURAL ENGINEER: SOUTH FLORIDA SHOOTING CLUB, INC.

811
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PORT SAINT LUCIE OFFICE
10250 SHOREWAY DRIVE
SUITE 201
PORT SAINT LUCIE, FL 34987
888-772-4524

DATE: _____

PROJECT NO.: _____

PROJECT NAME: _____

PROJECT LOCATION: _____

PROJECT DESCRIPTION: _____

FLORIDA

SOUTH FLORIDA SHOOTING CLUB

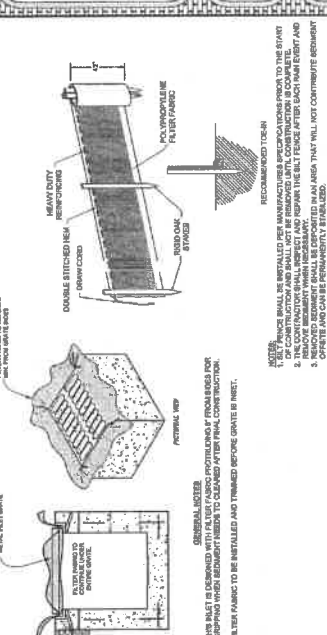
STORMWATER POLLUTION PREVENTION PLAN

MARTIN COUNTY

18-SFSC

4 OF 9

SILT FENCE DETAIL



GENERAL NOTES:

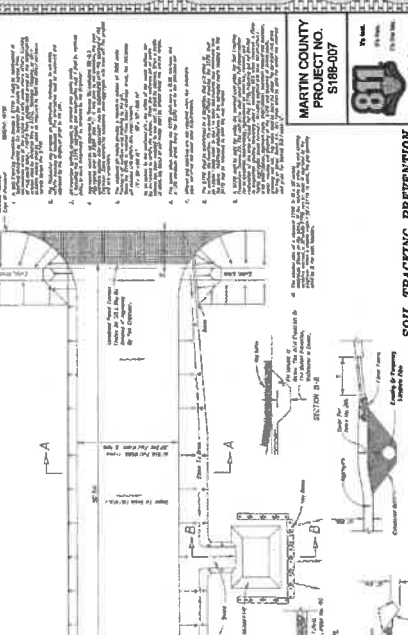
- THIS SILT FENCE IS DESIGNED WITH FILTER FABRIC AND POSTS TO BE INSTALLED AND TYPED AS SHOWN IN PLAN.
- THE SILT FENCE IS TO BE INSTALLED AND TYPED AS SHOWN IN PLAN.

SECTION

ELEVATION

NOTE: SILT FENCE TO BE PAID FOR UNDER THE CONTRACT UNIT PRICE FOR STACKED SILT FENCE (U/P).


SOIL TRACKING PREVENTION DEVICE TYPE 'A'



SECTION A-A

SECTION B-B

SILT FENCE DETAIL



GENERAL NOTES:

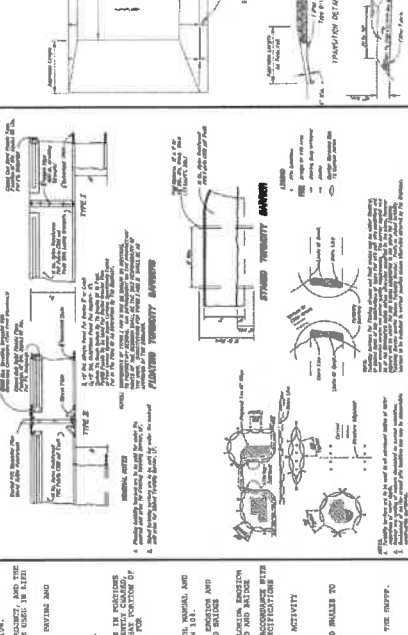
- THIS SILT FENCE IS DESIGNED WITH FILTER FABRIC AND POSTS TO BE INSTALLED AND TYPED AS SHOWN IN PLAN.
- THE SILT FENCE IS TO BE INSTALLED AND TYPED AS SHOWN IN PLAN.

SECTION

ELEVATION

NOTE: SILT FENCE TO BE PAID FOR UNDER THE CONTRACT UNIT PRICE FOR STACKED SILT FENCE (U/P).


SOIL TRACKING PREVENTION DEVICE TYPE 'A'



SECTION A-A

SECTION B-B

SILT FENCE DETAIL



GENERAL NOTES:

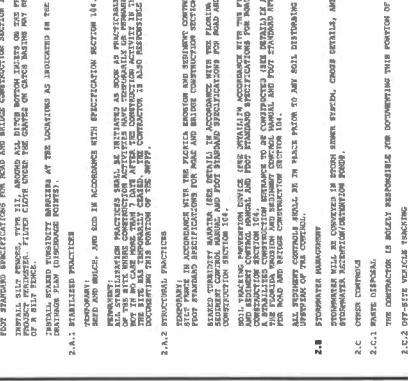
- THIS SILT FENCE IS DESIGNED WITH FILTER FABRIC AND POSTS TO BE INSTALLED AND TYPED AS SHOWN IN PLAN.
- THE SILT FENCE IS TO BE INSTALLED AND TYPED AS SHOWN IN PLAN.

SECTION

ELEVATION

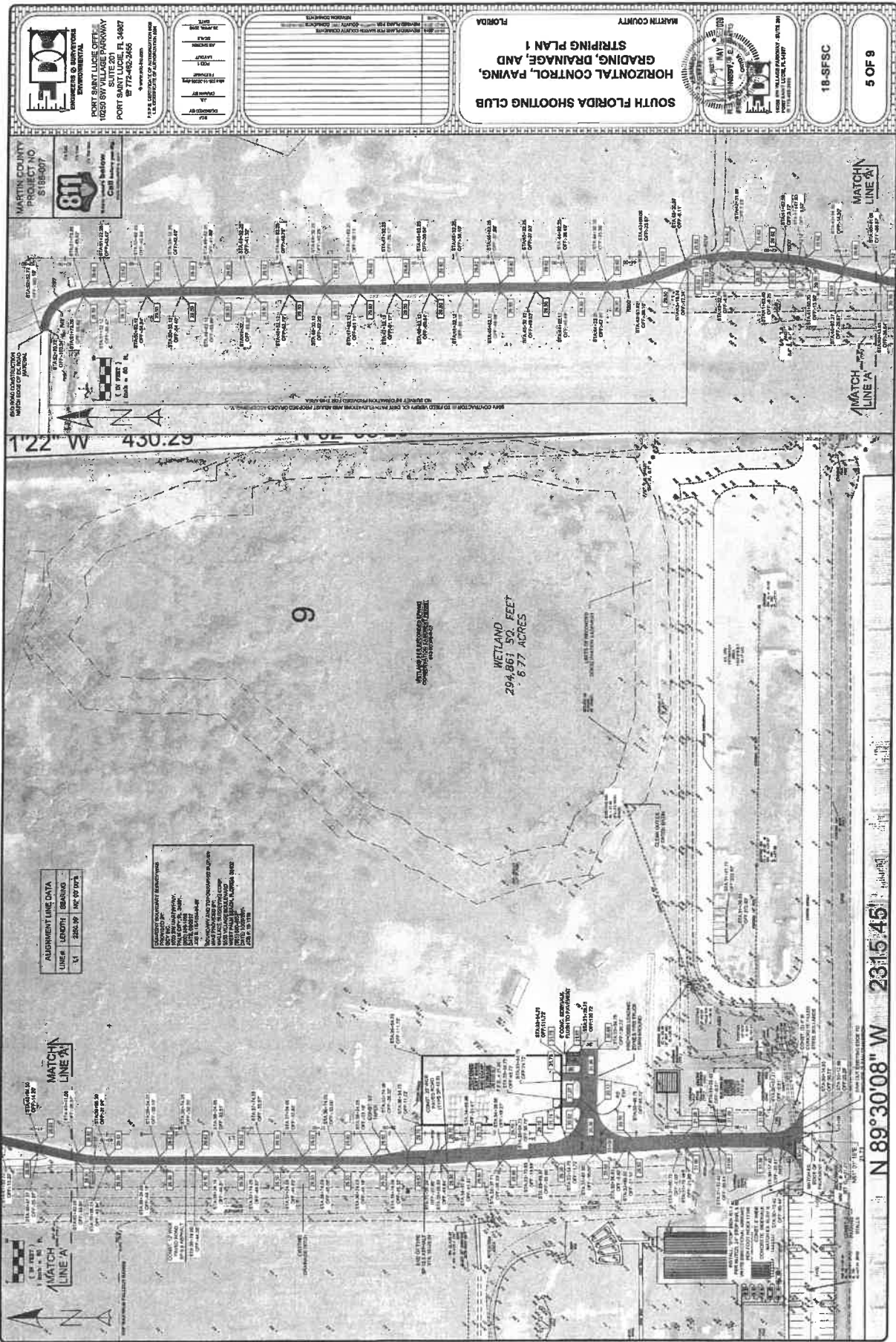
NOTE: SILT FENCE TO BE PAID FOR UNDER THE CONTRACT UNIT PRICE FOR STACKED SILT FENCE (U/P).

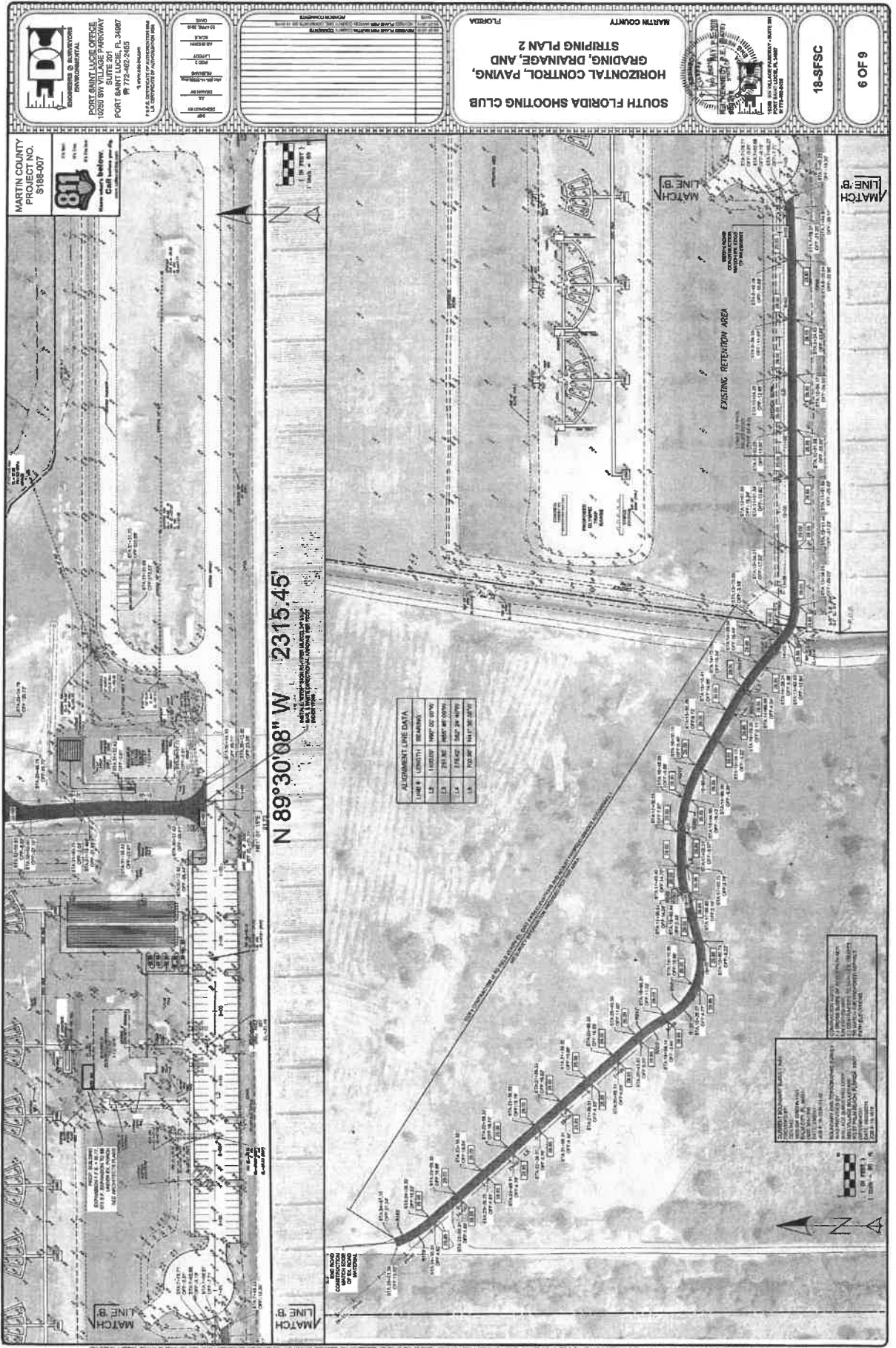
SOIL TRACKING PREVENTION DEVICE TYPE 'A'



SECTION A-A

SECTION B-B





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 10250 SW VILLAGE PARKWAY
 SUITE 201
 PORT SAINT LUCIE, FL 34987
 888-772-4826
 888-772-4826

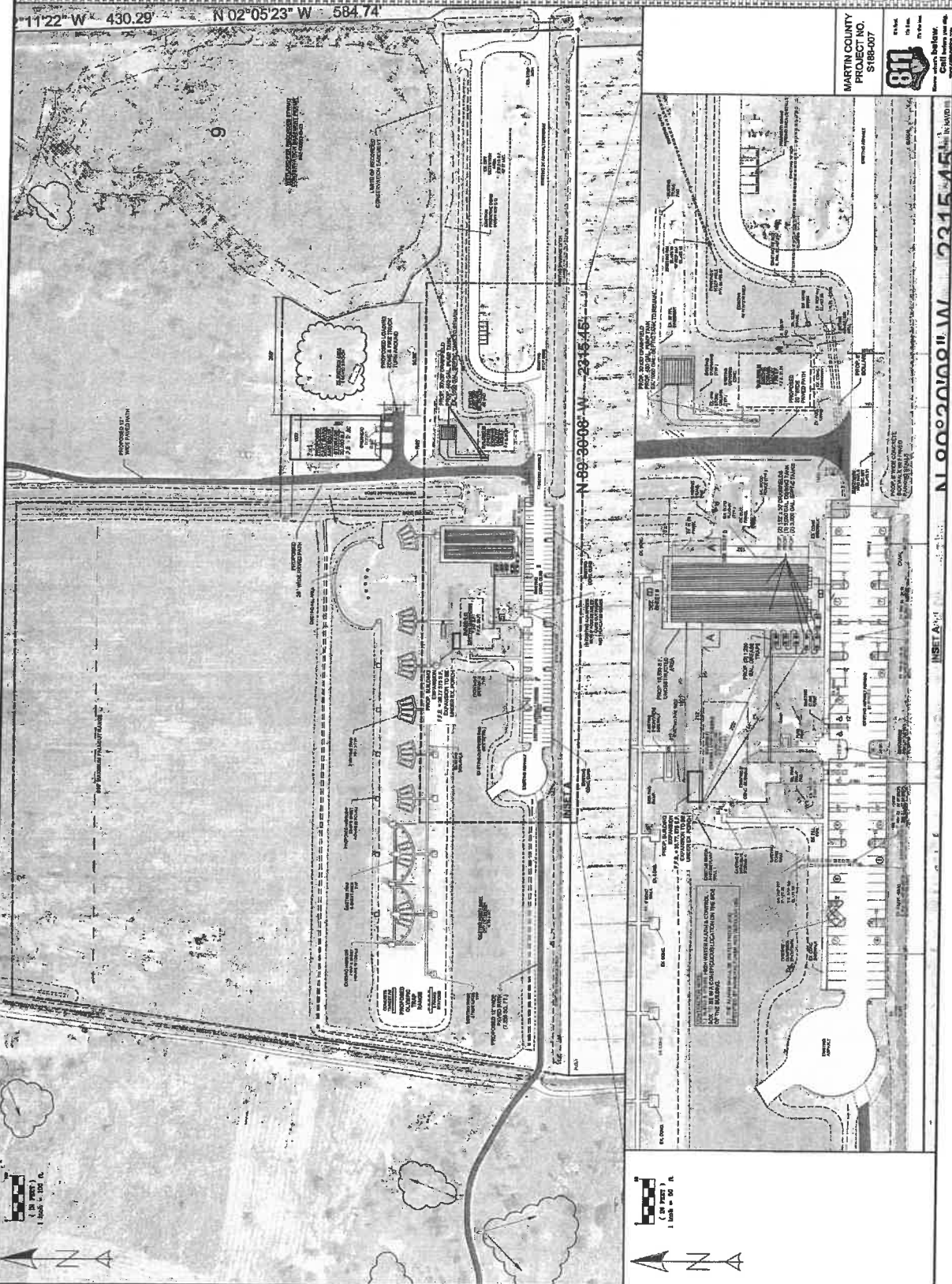
DATE	10/11/2011
BY	EDC
REVISION	
NO.	
DESCRIPTION	

DATE	10/11/2011
BY	EDC
REVISION	
NO.	
DESCRIPTION	

UTILITY PLAN
SOUTH FLORIDA SHOOTING CLUB
 MARTIN COUNTY
 FLORIDA



18-SFSC
7 OF 9



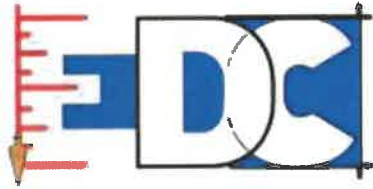
MARTIN COUNTY
 PROJECT NO.
 S188-007



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1396



ENGINEERS SURVEYORS ENVIRONMENTAL

May 15, 2020

VIA: Hand Delivery

Peter Walden, Senior Planner
Martin County Growth Management Department
Development Review Division
2401 SE Monterey Road
Stuart FL, 34996

RE: South Florida Shooting Grounds - Martin County Project #S188-007
Revised Major Final Site Plan - Response to Staff Report #2

Dear Mr. Walden,

We are in receipt of the staff report generated in January of 2020 prior to the subsequently completed text amendment for the South Florida Shooting Grounds. In light of the completion of the 2018 text amendment and in response to the previously generated staff report for the Revised Major Final Site plan, we respectfully offer the following in response:

A-E: Acknowledged.

F. Determination of compliance with Comprehensive Growth Management Plan requirements - Growth Management Department

Item #1 – The application for the waiver is attached.

G. Determination of compliance with land use, site design standards, zoning, and procedural requirements - Growth Management Department

Unresolved Issues: The application for the waiver is attached.

H. Determination of compliance with the urban design and community redevelopment requirements – Community Development Department

All items within section H are in compliance.

I. Determination of compliance with the property management requirements – Engineering Department

All items within section I are in compliance.

J. Determination of compliance with environmental and landscaping requirements - Growth Management Department

Unresolved Issues:

Item#1: Site Data

The upland preserve and native upland habitat acreages shown on the site plan are not consistent with the data in the PAMP. The PAMP identifies 2.328 acres of native upland habitat of which 25% is required to be preserved. That equates to approximately 0.582 acres of native uplands required to be preserved. The PAMP proposes to preserve 1.08 acres of native uplands within the buffer of Wetland 9. Please correct the upland preserve and native upland habitat acreages on the site plan and also show the 1.08 acres of upland preserve within the wetland buffer of Wetland 9 on the site plan.

The tables and data have been corrected. The revised PAMP and revised site plan data sheet is attached.

Item#2: PAMP

Please provide a copy of the wetland jurisdictional determination of the site from the SFWMD. The wetland JD shall be an attachment to the PAMP.

The SFWMD JD is attached to the PAMP.

Landscape

Below comments are from previous review. Have not been addressed with this resubmittal.

Unresolved Issues:

1/07/2020 After three requests the below Comments still have not been addressed. Instead the response states that landscaping will be augmented after approval but prior to construction. This response does not indicate compliance with the previously approved plans only that final tree counts and landscape area will be determined. No revised landscape plans have been submitted. Please address the below comments.

Staff from Cuozzo Design Group met with Martin County staff on site. A revised landscape plan is attached. Please note, While a “shooting range” does qualify as Commercial and Business Use, the “Sporting Clay” designation does not. Based on this, the landscape requirements for the “shooting range” area (Proposed Developed Area) will comply with Martin County requirements .

K. Determination of compliance with transportation requirements - Engineering Department

All items within section I are in compliance.

L. Determination of compliance with county surveyor - Engineering Department

Finding of "compliance" is noted.

M. Determination of compliance with engineering, storm water and flood management requirements - Engineering Department

1. As previously requested, provide a Signed and Sealed Stormwater Management Report, which includes a detailed description of the proposed stormwater management system.

Attached

2. As previously requested, show the limits of the proposed 6' wide concrete sidewalk adjacent to the existing parking area.

The proposed sidewalks are shown on the attached revised plans.

N. Determination of compliance with addressing and electronic file submittal requirements – Growth Management and Information Technology Departments

This section is noted as "in compliance" and it should be noted that a new set of electronic files is attached and submitted.

O. Determination of compliance with utilities requirements - Utilities Department

Attached is the FDOH approved OSTDS system as well as the septic waiver application.

Sections P was determined to be "in compliance".

Q. Determination of compliance with Americans with Disability Act (ADA) requirements - General Services Department

Unresolved issues:

1. As previously requested, provide for an accessible route to the proposed cart barn/ equipment storage building.

The proposed cart barn is for staff use only and is NOT open to the public. Additionally, the building is not raised, has no stairs and access doors are wide enough to comply with ADA requirements. However, the applicant will be providing an ADA parking space adjacent to the southern entrance of the building.

R. Determination of compliance with Martin County Health Department and Martin County School Board

Please note, the Martin County Health Department is currently reviewing the application for the site. Additionally, as the site is non-residential, it was determined to be in compliance with the Martin County School Board.

Sections S and T are noted.

Section U, Post Approval Documentation, is noted.

V. Local, State, and Federal Permits

Item #1: STORMWATER MGMT PERMITS – *Permits will be submitted prior to construction activities.*

W. Fees – *The applicant has paid the application review fees.*

X. General application information – This information continues to be the following:

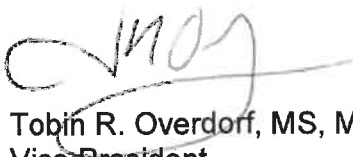
Applicant: South Florida Shooting Grounds, LLC
Joe Fasulo, General Manager
500 SW Long Drive
Palm City, FL 34990

Agent: EDC, Inc.
Toby Overdorf
10250 SW Village Parkway
Suite 201
Port St. Lucie, FL 34987
772-223-5200

Engineer: EDC, Inc.
Rod Kennedy, P.E.
10250 SW Village Parkway
Suite 201
Port St. Lucie, FL 34987
772-223-5200

The applicant has completed their response to the previously generated staff report. Based on this submission and, in light of the modified site plan and text amendment, the applicant is requesting a staff meeting to further discuss and review the project. Please feel free to contact Toby Overdorf at 772-223-5200 or tobyoverdorf@edc-inc.com with any additional questions.

Sincerely,
EDC, Inc.



Tobin R. Overdorf, MS, MBA
Vice President

Cc: Joe Fasulo, South Florida Shooting Club
Robert Raynes, Gunster
File



ENGINEERS • SURVEYORS • ENVIRONMENTAL

10250 SW Village Parkway, Suite 201
Port St. Lucie, Florida 34987
ph: 772-462-2455 fx: 772-408-4208
TobyOverdorf@edc-inc.com

TRANSMITTAL

To	Mr. Pete Walden- Senior Planner	Date	May 15, 2020
	Martin County Growth Management Department	Job #	
	2401 SE Monterey Road	Re:	South Florida Shooting Club
	Stuart, FL 34996	SLC #:	

Enclosed are the following items via: ☐ U.S. Mail ☐ Overnight Exp. ☒ X ☐ Courier ☐ FAX

<input type="checkbox"/>	Prints	<input checked="" type="checkbox"/> X	<input type="checkbox"/>	Plans	<input type="checkbox"/>	Other:
<input type="checkbox"/>	Copy of letter	<input checked="" type="checkbox"/> X	<input type="checkbox"/>	Disks	<input type="checkbox"/>	Other:

Copies	Date	No.	Description
1	5-15-2020	1	Response Letter
1		2	Site Plan
1		3	Stormwater calculations, sealed
1		4	Construction Plans
1		5	Landscape plans
1		6	PAMP
1		7	Utility Waiver
1		8	Thumb Drive

These are transmitted as checked below:

<input type="checkbox"/>	For approval	<input checked="" type="checkbox"/> X	<input type="checkbox"/>	For your use	<input checked="" type="checkbox"/> X	<input type="checkbox"/>	As requested	<input type="checkbox"/>	To keep on file
--------------------------	--------------	---------------------------------------	--------------------------	--------------	---------------------------------------	--------------------------	--------------	--------------------------	-----------------

Released by: 

Signature

Date: May 23, 2018

Tobin R. Overdorf

Print Name

Received by: _____

Signature

Date: _____

Print Name

If enclosures are not as noted, kindly notify us at once.



Stormwater Maintenance Plan for South Florida Shooting Grounds Located at Long Drive in Martin County

The maintenance of your stormwater treatment systems is critical to the performance and directly contributes to the quality of your stormwater runoff leaving your site. It is the responsibility of the **South Florida Shooting Grounds** to maintain the stormwater system and repair any damage in a timely fashion.

SFWMD ERP Permit Number: 43-00093-S-03

Operating Entity Contact: South Florida Shooting Club

c/o Joe Fasulo - Manager

Phone: 772-597-1024

email: joe@southfloridashootingclub.com

Proper operation and maintenance ensures that the structures remain effective at removing pollutants as originally designed and will also...

- Reduce failure, therefore improve water quality
- Maintain the volume of stormwater treated in the long term
- Increase pollutant removal efficiency

Operation and Maintenance Plan: The proper operation and maintenance of a stormwater management structure includes frequent inspection and scheduled maintenance activities. Manpower and budgetary needs to perform the maintenance must be anticipated. Included in this plan are two (2) appendices. The first is a comprehensive schedule of inspection intervals and maintenance items, the second is a comprehensive site evaluation form to be utilized when performing annual or periodic inspections.

Accessibility: All structures must be easily accessible for inspection and needed equipment. Formal access must be provided and permanent easements must be provided to the entity responsible for maintenance when that entity does not own the property.

<p>ENGINEERING DESIGN & CONSTRUCTION, INC. CIVIL ENGINEERS & SURVEYORS SPECIALIZING IN LAND DEVELOPMENT</p>
--

INSPECTION AND MAINTENANCE PLAN FOR STORMWATER MANAGEMENT STRUCTURES (BMPS)		
AREA	SCHEDULE	CORRECTIVE ACTIONS
LANSCAPED AREAS	Annually early spring and after heavy rains	Inspect all slopes and embankments and replant areas of bare soil or with sparse growth
		Armor rill erosion areas with riprap or divert the runoff to a stable area
		Inspect and repair down-slope of all spreaders and turn-outs for erosion
		Mow vegetation as specified for the area
DITCHES, SWALES AND OPEN STORMWATER CHANNELS	Annually spring and late fall and after heavy rains	Remove obstructions, sediments or debris from ditches, swales and other open channels
		Repair any erosion of the ditch lining
		Mow vegetated ditches
		Remove woody vegetation growing through riprap
		Repair any slumping side slopes
		Repair riprap where underlying filter fabric or gravel is showing or if stones have dislodged
CULVERTS	Spring and late fall and after heavy rains	Remove accumulated sediments and debris at the inlet, outlet, or within the conduit
		Remove any obstruction to flow
		Repair any erosion damage at the culvert's inlet and outlet
CATCHBASINS	Annually in the spring	Remove sediments and debris from the bottom of the basin and inlet grates
		Remove floating debris and oils (using oil absorptive pads) from any trap
ROADWAYS AND PARKING AREAS	Annually in the spring or as needed	Clear and remove accumulated winter sand in parking lots and along roadways
		Sweep pavement to remove sediment
		Grade road shoulders and remove accumulated winter sand
		Grade gravel roads and gravel shoulders
		Clean-out the sediment within water bars or open-top culverts
		Ensure that stormwater runoff is not impeded by false ditches of sediment in the
RESOURCE AND TREATMENT BUFFERS	Annually in the spring	Inspect buffers for evidence of erosion, concentrated flow, or encroachment by development
		Manage the buffer's vegetation with the requirements in any deed restrictions
		Repair any sign of erosion within a buffer
		Inspect and repair down-slope of all spreaders and turn-outs for erosion
		Install more level spreaders, or ditch turn-outs if needed for a better distribution of flow
		Clean-out any accumulation of sediment within the spreader bays or turnout pools
		Mow non-wooded buffers no shorter than six inches and less than three times per year
WET PONDS AND DETENTION BASINS	Annually in fall and after heavy rains	Inspect the embankments for settlement, slope erosion, piping, and slumping
		Mow the embankment to control woody vegetation
		Inspect the outlet structure for broken seals, obstructed orifices, and plugged trash racks
		Remove and dispose of sediments and debris within the control structure
		Repair any damage to trash racks or debris guards
		Replace any dislodged stone in riprap spillways
		Remove and dispose of accumulated sediments within the impoundment and forebay
FILTRATION AND INFILTRATION BASINS	Annually in the spring and late fall	Clean the basin of debris, sediment and hydrocarbons
		Provide for the removal and disposal of accumulated sediments within the basin
		Renew the basin media if it fails to drain within 72 hours after a one inch rainfall event
		Till, seed and mulch the basin if vegetation is sparse
		Repair riprap where underlying filter fabric or gravel is showing or where stones have dislodged
PROPRIETARY DEVICES	As specified by manufacturer	Contract with a third-party for inspection and maintenance
		Follow the manufacturer's plan for cleaning of devices
OTHER PRACTICES	As specified for devices	Contact the department for appropriate inspection and maintenance requirements for other drainage control and runoff treatment measures.

COMPREHENSIVE SITE EVALUATIONS

Inspection Results and Follow-up Action		
Date	Site Personnel Performing Inspection	Incidents of Noncompliance

Certification

I, _____ certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designated to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my personal inspection of the stormwater management system, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete.

Name: __

Title: ____

Signature:

Date: __

Drainage Calculations

for

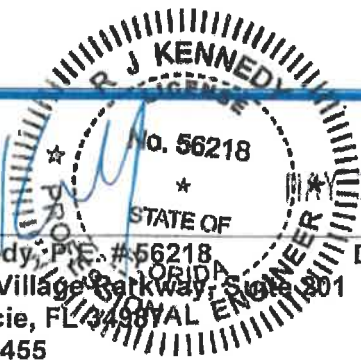
South Florida Shooting Grounds

Prepared By:

Engineering Design & Construction, Inc.

10250 SW Village Parkway, Suite 201
Port St. Lucie, FL 34987

May 2020


R.J. Kennedy, P.E. #56218
10250 SW Village Parkway, Suite 201
Port St Lucie, FL 34987
(772) 462-2455

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Drainage Calculations Summary

Project Description

Located approximately three miles west of Interstate 95 (I-95) and three miles north of State Road 714 (SR-714), in Martin County, is a property known as the South Florida Shooting Grounds, with an associated parcel ID of 04-38-39-000-000-00010-8. The property serves as location where members can practice shooting at clay pigeons. The site currently has an area of approximately 626.62-acres (ac) and is comprised of agricultural land, developed and undeveloped areas, as shown in Table 1.

Table 1: Existing Land Use

	Area (SF)	Area (ac)	Percentage
Total Site	27,296,438	626.64	100%
Developed	2,636,687	60.53	10%
North Ag	6,446,444	147.99	24%
South Ag	4,999,381	114.77	18%
Undeveloped	13,213,926	303.35	48%

Permit History

On December 7, 2017, the South Florida Water Management District (SFWMD) issued Environmental Resource Permit (ERP) number 43-00093-S-03, application number 171102-14, that identified the project area as 60.53-acres. The project area referred to in this permit is for the area of shot fall as indicated by exhibit 2.0., and does not include the previously permitted area of 42.72 acres. This ERP identified new shooting range areas, conservation easements, a monitoring and maintenance plan, best management practices for restoration of the wetland buffer and lead shot reclamation.

On June 3, 2016, ERP number 43-00093-S-03, application number 160415-22, was issued by SFWMD, where The Milcor Group, Inc., submitted a stormwater report for a 42.72-acre project. The report proposed an impervious area of 3.59 acres to include a private cart barn and cart barn storage, a land use break down from the Milcor Group can be seen in Table 2. Utilizing Google Earth to view the project site, as of the aerial, dated January 3, 2018, Figure 1, the proposed cart storage and private cart barns were not constructed.

Table 2: Milcor Group Land Use Assumptions

	Area (SF)	Area (ac)	Percentage
Total Site	1,860,883	42.72	100%
Impervious Area	207,346	4.76	11%
Building	29,621	0.68	2%
Pavement	115,870	2.66	6%
Stabilized Drive	10,890	0.25	1%
Canal - Wet	50,965	1.17	3%
Pervious Area	1,653,538	37.96	89%
Developed Green Space	762,300	17.50	41%
Undeveloped Green Space	891,238	20.46	48%
Total	1,860,883	42.72	100%



Figure 1: South Florida Shooting Grounds
 Courtesy of Google Earth Aerial View (01-03-18)

The Milcor Group drainage report demonstrated that the of the two SFWMD water quality requirements of one inch of runoff over the entire project area and 2.5 inches of runoff over the percent impervious and the Martin County water quality requirement of three inches over the percent impervious, the controlling factor was the one-inch over the project area at 1.76 acre – feet. The existing dry detention system would provide the water quality for 8.73 acre – feet of water quality treatment, exceeding the required amount as determined by The Milcor Group.

On January 22, 2008, SFWMD issued ERP 43-00093-S-03, application number 06-0119-19, that established the initial stormwater management system as designed by CPH. CPH designed a dry detention system to provide 8.73 acre – feet of water quality treatment for the South Florida Shooting Grounds. Prior to this permit, the site was undeveloped with the east portion of the site consisting of grass and brush vegetation and the west consisting of agricultural fields.

Existing Conditions

The South Florida Shooting Grounds is located in flood zone "X", Federal Emergency Management Agency (FEMA) panel 12085C0125G. Within the project boundary are several structures, a parking lot and developed open space, with table 3 illustrating the land use break down. As designed by CPH a dry detention system provides 8.73 acre - feet of water quality treatment between two dry detention areas that are hydraulically connected by means of a stormwater pipe. The stormwater then enters the existing canal system located within the property and ultimately discharges into the C-23 canal.

Table 3: Existing Land Use

	Area (SF)	Area (ac)	Percentage
Total Project Area	1,963,548	45.08	100.00%
Impervious Area	150,137	3.45	7.65%
Building Coverage	37,191	0.85	1.89%
Storage Facility	7,200	0.17	0.37%
Clubhouse	9,991	0.23	0.51%
Cart Barn	20,000	0.46	1.02%
Pavement	92,902	2.13	4.73%
Concrete	20,044	0.46	1.02%
Pervious Area	1,813,411	41.63	92.35%
Dry Det (TOE)	220,489	5.06	11.23%
Dry Det (TOB)	71,438	1.64	3.64%
Undeveloped	1,521,484	34.93	77.49%
Total	1,963,548	45.08	100.00%

Proposed Conditions

The proposed development will satisfy the treatment and attenuation design criteria for SFWMD and Martin County. The project proposes to add an additional approximately 1.07 acres of impervious area to the previous Milcor application, number 160415-22. Table 4 demonstrates the permitted and proposed changes for the project.

Table 4: Proposed Land Use Changes

	Permitted Area (ac)	Proposed Area (ac)	Difference (Proposed - Permitted)	Percentage
Total Project Area	45.08	45.08		100.00%
Total Impervious	4.84	6.21	1.36	13.77%
Building Coverage	0.85	0.87	0.01	1.92%
Storage Facility	0.17	0.17	0.00	0.37%
Club House	0.23	0.24	0.01	0.54%
Cart Barn	0.46	0.46	0.00	1.02%
Pavement	3.53	4.87	1.34	10.81%
Concrete	0.46	0.47	0.01	1.04%
Total Pervious	40.24	38.87	-1.36	86.23%
Dry Det (TOE)	5.06	5.06	0.00	11.23%
Dry Det (TOB)	1.64	1.64	0.00	3.64%
Undeveloped	33.53	32.17	-1.36	71.37%
Total	45.08	45.08		100.00%

Water Quality

As previously stated, the original design of the dry detention system completed by CPH was to provide water quality for 8.73 acre – feet of stormwater runoff and that The Milcor Group added approximately 0.28 acres of impervious area accounted for that was not constructed. To determine if water quality was still met, drainage calculations were performed for the proposed development. Based on the calculations for the proposed development, water quality would need to be provided for an additional 2.47 acre - feet of stormwater runoff, for a total of 4.23 acre – feet of stormwater runoff. This 4.23 acre – feet is less than the originally permitted system which provided water quality treatment for 8.73 acre – feet of runoff. The project does not propose to change the control structures as sufficient water quality is met.

Summary

The proposed project meets the water quality requirements established by SFWMD for the controlling condition of one inch over the entire project area without altering the control structure. CPH originally designed the stormwater management system to provide 8.73 acre – feet of water quality treatment, and with the proposed project required to have 4.23 acre – feet of water quality treatment, there remains 4.50 acre – feet of water quality treatment available for future use before changes to the water management system will need to be modified.

Appendix A: Drainage Calculations

Post Development Stormwater Calculations

Project: **South Florida Shooting Grounds**

Engineer: **SGF**

Project #: **Crossroads - 1541**

Date: **7/22/2019**

Revised:

Land Use Table

Use	Imp. (ac)	Pervious (ac)	Total (ac)
Buildings =	0.874	0.000	0.874
Impervious =	5.347	0.000	5.347
Dry Detention Area =	0.000	6.710	6.710
Wet Detention Area =	0.000	0.000	0.000
Developed Compacted Open Space =	0.000	14.336	14.336
Undeveloped or Preserve Land =	0.000	17.810	17.810
TOTAL =	6.221	38.856	45.077

Stage-Area Table

:see stage-storage chart for information.

Post-Development Water Quality Calculations

Project: **South Florida Shooting Grounds**
 Project #: **Crossroads - 1541**

Engineer: **SGF**
 Date: **7/22/2019**

1-inch Over the Project Area - per SFWMD

$$\text{(Treated Volume)} \quad 1\text{-inch} \quad * \quad 1\text{-ft}/12\text{-in} \quad * \quad \frac{45.077}{\text{PROJECT AREA}} = \frac{3.76}{\text{TREATED VOLUME}} \text{ ac-ft}$$

2.5-inches Times the Percent Impervious - per SFWMD

$$\begin{aligned} \text{(Site Area)} \quad \frac{45.077}{\text{PROJECT AREA (AC)}} - \left(\frac{0.000}{\text{LAKES (AC)}} + \frac{0.874}{\text{ROOFS (AC)}} \right) &= \frac{44.203}{\text{SITE AREA}} \text{ ac} \\ \text{(Impervious Area)} \quad \frac{44.203}{\text{SITE AREA (AC)}} - \frac{38.856}{\text{PERVIOUS AREA (AC)}} &= \frac{5.347}{\text{IMPERVIOUS AREA}} \text{ ac} \\ \text{(% Impervious)} \quad \frac{\text{IMPERVIOUS AREA} * 100\%}{\text{SITE AREA (AC)}} &= 12.10\% \\ \text{(2.5-in * \% Imp.)} \quad 2.5\text{-inches} * \frac{12.10\%}{\text{PERCENT IMPERVIOUS}} &= \frac{0.30}{\text{INCHES TO BE TREATED}} \\ \text{(Treated Volume)} \quad \frac{0.30}{\text{TREATED (IN)}} * 1\text{-ft}/12\text{-in} * \frac{45.08}{\text{PROJECT AREA - LAKES (AC)}} &= \frac{1.14}{\text{TREATED VOLUME}} \end{aligned}$$

3-inches Times the Percent Impervious - per Martin County

$$\begin{aligned} \text{(Site Area)} \quad \frac{45.077}{\text{PROJECT AREA (AC)}} - \left(\frac{0.000}{\text{LAKES (AC)}} + \frac{0.874}{\text{ROOFS (AC)}} \right) &= \frac{44.203}{\text{SITE AREA}} \\ \text{(Impervious Area)} \quad \frac{44.203}{\text{SITE AREA (AC)}} - \frac{38.856}{\text{PERVIOUS AREA (AC)}} &= \frac{5.347}{\text{IMPERVIOUS AREA}} \\ \text{(% Impervious)} \quad \frac{\text{IMPERVIOUS AREA} * 100\%}{\text{SITE AREA (AC)}} &= 12.10\% \\ \text{(3-in * \% Imp.)} \quad 3\text{-inches} * \frac{12.10\%}{\text{PERCENT IMPERVIOUS}} &= \frac{0.36}{\text{INCHES TO BE TREATED}} \\ \text{(Treated Volume)} \quad \frac{0.36}{\text{TREATED (IN)}} * 1\text{-ft}/12\text{-in} * \frac{45.08}{\text{PROJECT AREA - LAKES (AC)}} &= \frac{1.36}{\text{TREATED VOLUME}} \end{aligned}$$

	SFWMD - STND	SFWMD - OFW	MARTIN CO
Required Wet Detention (100%) =	3.76	5.63	2.04
Required Dry Detention (75%) =	2.82	4.23	1.70
Required Retention (50%) =	1.88	2.82	1.36

* An additional 0.5-inch of pretreatment for industrial or commercial projects will be needed.
 ** OFW volume is 150% of the standard SFWMD criteria

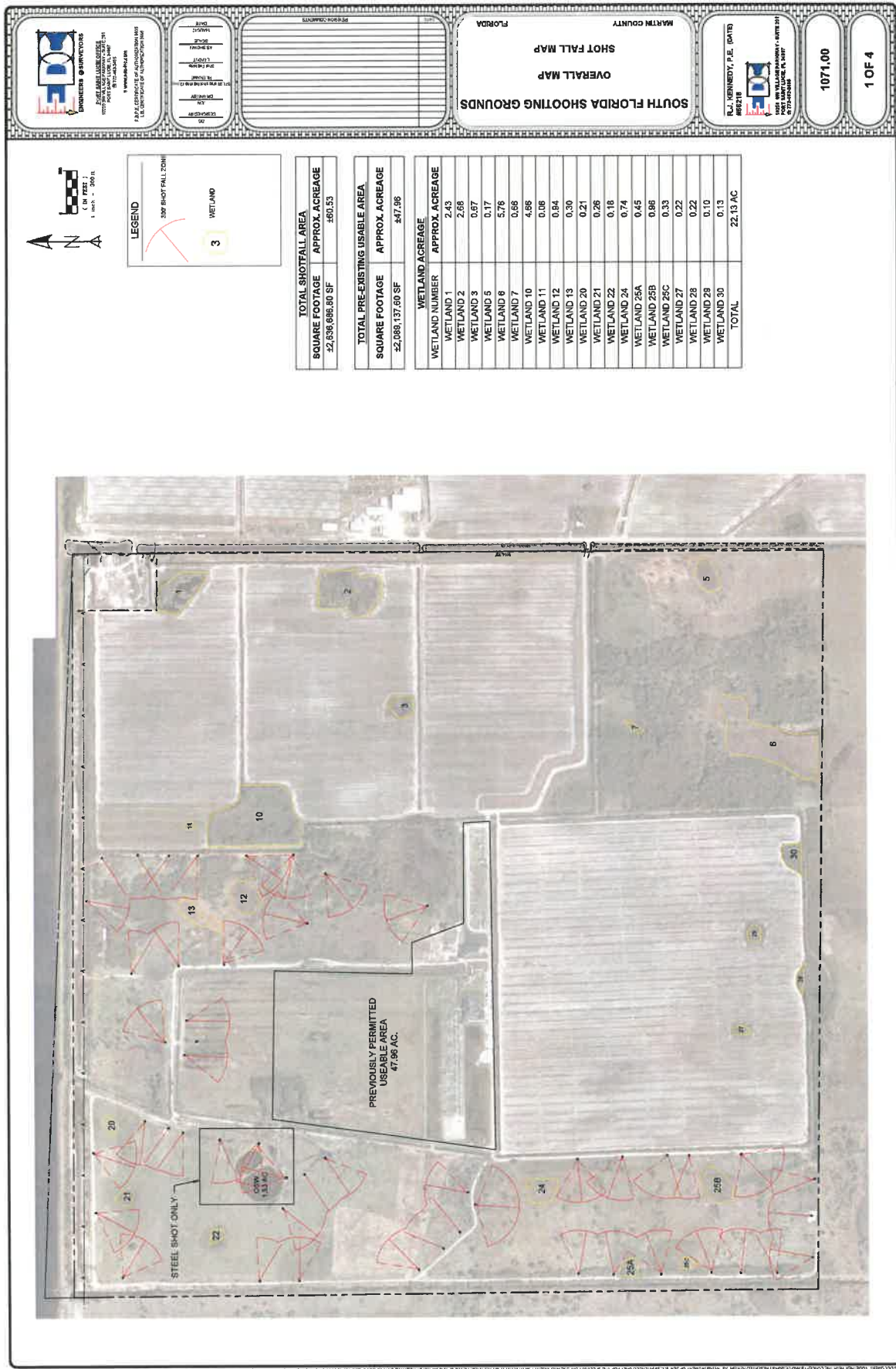
Post Development-Stage Storage Calculations for South Florida Shooting Grounds

Land use Category	Storage Type	Area (ac.)	From Elev.	To Elev.	27.70	28.20	28.70	29.20	29.70	30.20	30.70	31.20	31.70	32.20	32.70	33.20
Dry Detention Bot	Vertical	5.07	27.70	31.00	0.00	2.53	5.07	7.60	10.14	12.67	15.21	17.74	20.28	22.81	25.35	27.88
Dry Detention Slopes	Linear	1.64	27.70	31.00	0.00	0.06	0.25	0.56	0.99	1.55	2.24	3.03	3.85	4.67	5.49	6.31
WATER QUALITY					0.00	2.60	5.32	8.16	11.13	14.23	17.45	20.78	24.13	27.49	30.84	34.20
Asphalt & Concrete	Linear	5.35	20.35	31.80	12.61	14.39	16.28	18.29	20.41	22.65	25.01	27.49	30.08	32.75	35.42	38.10
Open Space	Linear	32.15	27.80	31.80	0.00	0.64	3.25	7.88	14.51	23.15	33.79	46.45	61.12	77.15	93.22	109.30
Sub-Total:		44.2			12.61	17.63	24.85	34.33	46.05	60.03	76.25	94.72	115.33	137.39	159.49	181.59
Building Pads		.87			*Not included in Stage-storage calculations											
Total:		45.08														

ICPR Volume to Area Conversion $A_2 = 2((V_2 - V_1)/(S_2 - S_1)) - A_1$			Set Water Quality Elevation					
Stage	Volume	Area	Total Water Quality Volume Required:	4.23	ac-ft	Retention Volume Required for Net Improvement:	0.00	ac-ft
27.70	12.61	5,070	Bleeder Elevation for Required Retention:	27.70	NAVD			
28.20	17.63	14,988	Detention Water Quality Volume Remaining:	4.23	ac-ft			
28.70	24.85	0.000	Required Water Quality Detention Stage:	28.50	NAVD			
29.20	34.33	37,898	Proposed Water Quality Weir Elevation:	29.28	NAVD			
29.70	46.05	0.000	Water Quality Detention Volume Provided:	8.64	ac-ft			
30.20	60.03	0.000	Total Water Quality Volume Provided:	8.64	ac-ft			
30.70	76.25	0.000						
31.20	94.72	0.000						
31.70	115.33	0.000						
32.20	137.39	0.000						
32.70	159.49	0.000						
33.20	181.59	0.000						

See Water Quality Volume Calculation Sheet
See BMP Trains Calculations
= Total WQTV - Required Retention Volume
Provided Detention Volume between Bleeder and Weir
= Provided Retention + Provided Detention
Sufficient Water Quality Treatment Provided

Appendix B: Supporting Documents





**SOUTH FLORIDA WATER MANAGEMENT DISTRICT
ENVIRONMENTAL RESOURCE PERMIT NO. 43-00093-S-03
DATE ISSUED: December 7, 2017**

PERMITTEE: SOUTH FLORIDA SHOOTING GROUNDS LLC
500 S W LONG DRIVE
PALM CITY, FL 34990

PROJECT DESCRIPTION: The addition of 49 shooting stations encompassing 60.53 acres for a project known as South Florida Shooting Grounds.

PROJECT LOCATION: MARTIN COUNTY, SEC 4 TWP 38S RGE 39E

PERMIT DURATION: See Special Condition No:1.

This is to notify you of the District's agency action for Permit Application No. 171102-14, dated November 2, 2017. This action is taken pursuant to the provisions of Chapter 373, Part IV, Florida Statutes (F.S).

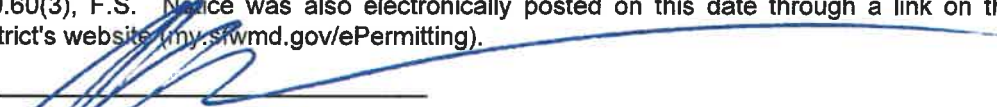
Based on the information provided, District rules have been adhered to and an Environmental Resource Permit is in effect for this project subject to:

1. Not receiving a filed request for a Chapter 120, Florida Statutes, administrative hearing.
2. the attached 18 General Conditions (See Pages : 2 - 4 of 6),
3. the attached 10 Special Conditions (See Pages : 5 - 6 of 6) and
4. the attached 6 Exhibit(s)

Should you object to these conditions, please refer to the attached "Notice of Rights" which addresses the procedures to be followed if you desire a public hearing or other review of the proposed agency action. Please contact this office if you have any questions concerning this matter. If we do not hear from you in accordance with the "Notice of Rights," we will assume that you concur with the District's action.

CERTIFICATE OF SERVICE

I HEREBY CERTIFY THAT this written notice has been mailed or electronically transmitted to the Permittee (and the persons listed in the attached distribution list) this 7th day of December, 2017, in accordance with Section 120.60(3), F.S. Notice was also electronically posted on this date through a link on the home page of the District's website (my.sfwmd.gov/ePermitting).

BY: 
Ricardo A. Valera, P.E.
Bureau Chief - Environmental Resource
Okeechobee Regulatory Office

Certified mail number 7007 2560 0001 2516 1665

Last Date For Agency Action: January 26, 2018

INDIVIDUAL ENVIRONMENTAL RESOURCE PERMIT STAFF REPORT

Project Name: South Florida Shooting Grounds

Permit No.: 43-00093-S-03

Application No.: 171102-14

Application Type: Environmental Resource (Construction/Operation Modification)

Location: Martin County, S4/T38S/R39E

Permittee : South Florida Shooting Grounds

Operating Entity : South Florida Shooting Grounds LLC

Project Area: 60.53 acres

Permit Area: 639.00 acres

Project Land Use: Recreational

Drainage Basin: C-23

Receiving Body: C-23 Canal

Class: CLASS III

Special Drainage District: NA

Total Acres Wetland Onsite: 22.13

Total Acres Wetland Preserved Onsite: 22.13

Total Acres Presv/Mit Compensation Onsite: 23.66

Conservation Easement To District : Yes

Sovereign Submerged Lands: No

PROJECT SUMMARY:

This Environmental Resource Permit Modification authorizes the addition of 49 shooting stations encompassing 60.53 acres for a project known as South Florida Shooting Grounds.

No construction is authorized by this permit.

Issuance of this permit constitutes certification of compliance with state water quality standards in accordance with Rule 62-330.062, F.A.C..

SOUTH FLORIDA SHOOTING GROUNDS

ADDL/REVISED SUBMITTAL

**Stormwater Report
July 2007**

AUG 10 2007


CPH Job No. C10901



**Engineers
Planners
Landscape Architects
Surveyors
Construction Management
Design/Build**

Certificate of Authorization No 00003215

**544 NW University Blvd. 104
Port St Lucie, FL 34986
Ph. 772.283.8704
Fx. 772.283.4681**


H Leroy Turja, P E
20239
P.E. Number
7/26/07
Date

Introduction

The South Florida Shooting Grounds, LLC currently owns 600 +/- acres in the Martin County, most of which is agricultural land and within this area the South Florida Shooting Grounds is proposing a recreational facility. The proposed site is 46.24 acres of the total 600 +/- acres owned by The South Florida Shooting Grounds and includes a main project area of 41.44 acres and an access road area of 4.80 acres. The proposed site is located approximately three miles north of C.R. 714 and three miles west of I-95 in Martin County, Florida. The site is located within Section 4, Township 38 South, Range 39 East. The proposed site will be utilized for construction of the South Florida Shooting Club. The recreational facility will include a number of skeet/trap shooting stations, a club house (9,991 SF), a maintenance building (7,200 SF), shellrock drives and an asphalt parking area.

Drainage Summary

This project proposes construction of two dry stormwater detention ponds (interconnected with equalizer pipe) and a road side swale for treatment and attenuation of the stormwater prior to discharge from the site. The following table summarizes the stormwater design and please note all stormwater calculations are based on the NGVD datum.

STORMWATER DESIGN SUMMARY	
Pre-Development Peak Volume Discharge 3 Yr, 24 hr	273,992 CF
Post-Development Peak Volume Discharge 3 Yr, 24 hr	0.0 CF
Pre-Development Peak Volume Discharge 25 Yr, 72 hr	827,204 CF
Post-Development Peak Volume Discharge 25 Yr, 72 hr	111,514 CF
Required Min. Treatment Volume (Project Area)	1.29 Ac-Ft
Proposed Treatment Volume (Project Area)	8.73 Ac-Ft
Proposed Drawdown (One-half Dry Detention Volume)	44.44 Hrs (4" Per Orifice)
Required Min. Treatment Volume (Access Road Area)	0.21 Ac-Ft
Proposed Treatment Volume (Access Road Area)	0.21 Ac-Ft
10 Year 72 Hour Storm	
Allowable Runoff to Canal - 23	2.28 cfs
Post-Development Peak Discharge Rate	1.43 cfs
25 Year 72 Hour Storm	
Pre-Development Peak Discharge Rate	63.34 cfs
Post-Development Peak Discharge Rate	3.70 cfs
Peak Stage (West Pond)	30.22 Ft
Top of Berm (West Pond)	32.00 Ft
Peak Stage (East Pond)	31.03 Ft
Top of Berm (East Pond)	32.00 Ft

The above summary and calculations contained herein show that the proposed improvements result in a system whose peak discharge rate and discharge volume to offsite areas is less than the pre-development peak discharge rate and volumes to the offsite area for all storms analyzed. In addition, the post development peak discharge rate does not exceed the allowable runoff to Canal - 23 of 31.5 CSM (2.28 cfs) for a 10 year 3 day storm event as required by the SFWMD.

Proposed Improvements

Proposed construction consists of skeet/trap shooting stations, a club house (9,991 SF), a maintenance building (7,200 SF), shellrock drives and an asphalt parking area. Stormwater runoff from the impervious areas (parking area, buildings, and shooting stations) and the semi-pervious shell driveway will be collected in two proposed dry detention ponds called the "west" pond and "east" pond. The two ponds will be interconnected with an equalizer pipe and each pond will have an outfall structure, which will connect the ponds to the existing ditch that drains to the south canal. Note that runoff from the grassed field area north of the west pond will not be collected in the stormwater system for treatment since the proposed ground cover (grass) is an improvement over the mostly bare soil agricultural field and will not adversely impact water quality. Also of note is the access driveway to the site; the proposed driveway will be shell rock, and runoff from the proposed driveway will be directed to a grassed swale that will treat runoff from the access drive

Stormwater Design Criteria

Water Quality

The proposed dry detention ponds have been designed to meet the following criteria:

SFWMD: $WQV = 1" \times \text{Total Area or } 2.5" \times \text{Impervious Area, Whichever is Greater} \times 75\%$
(Dry Detention)

Martin Co. $WQV = (3" \times \text{Impervious Area}) \times 1.25$ (Additional 25%)

Per the calculations on pages 10-14, the total water quality volume required to be provided in the ponds is 1.29 Ac-Ft. The proposed design provides 8.73 Ac-Ft of water quality volume in the three ponds. In addition, the access road requires a total water quality volume 0.21 Ac-Ft and the proposed design provides 0.21 Ac-Ft of water quality volume in the swale.

Stormwater Attenuation

The proposed site has been designed to meet the following stormwater attenuation criteria.

SFWMD: Post-development peak discharge rate must not exceed the allowable runoff to Canal - 23 of 31.5 CSM from a 10 year 3 day storm, resulting with an allowable discharge from this project area of 2.28 cfs.

Analysis	10 Yr 72 Hr Storm
Canal C-23 Allowable Discharge	2.28 cfs
Post-development peak discharge	1.43 cfs

Martin Co.: Post-development peak discharge rate must not exceed the pre-development peak discharge rate from a 25 year 3 day storm

Stormwater Management Report and Calculations

South Florida Shooting Grounds

RECEIVED

APR 15 2016

Okeechobee Service Center

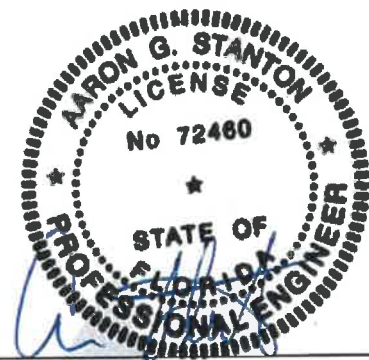
For Review By
Martin County

APPLICATION NUMBER
160415-22

January 2016
Revised March 2016

OKS

- 1 Existing Conditions:
 - 1.1 Location
 - 1.2 Site Conditions
 - 1.3 Soils & Wetlands
 - 1.4 Drainage Pattern
 - 1.5 FEMA Flood Zone
- 2 Proposed Development:
 - 2.1 Project Description
 - 2.2 Control Elevation
 - 2.3 Stormwater Management System
- 3 Modeling:
 - 3.1 Methodology
 - 3.2 Roadway Elevation and Design Storm Model
 - 3.3 Finished Floor Elevation
 - 3.4 Discharge Rate
 - 3.5 Recovery
- 4 Attachments:
 - 4.1 Post Development Drainage Calculations
 - 4.2 Stage-Storage Calculations
 - 4.3 ICPR Model
 - A. Node Map
 - B. Input Report
 - C. Runoff Hydrology Routing
 - 4.4 Soils Map
 - 4.5 SFWMD ERP #43-00093-S-03
 - 4.6 Stormwater Maintenance Plan



Aaron G. Stanton, P.E. #72460
C.A. #28246
April 14, 2016

Notes

1. Calculations performed in Excel, no routing provided
2. The entire report was prepared by the Engineer listed above.

6526
South
Kanner
Highway
#236
Stuart
Florida
34997

Phone
772-223-8850
Fax
772-223-8851

Email
marketing@
themilcorgroup.
com

Web
www.
themilcorgroup.
com

1.5 FEMA Flood Zone

The site is located in Flood Zone X, according to FEMA FIRM No. 12085C0125G, dated 3/16/2015. This map panel was not printed as it is entirely in Flood Zone X.

2 Proposed Development:

2.1 Project Description:

The proposed project consists of modifying the site boundary from 41.44 acres to 42.72 acres to include a rectangular piece along the eastern boundary line. This rectangular piece will be the location of a proposed cart barn of 3,470 sf. Additionally, three (3) private barns of 2,933 sf each will be added for members to park their golf carts in. There will also be improvements to an existing stabilized drive leading to the cart bar, as well as minor stormwater and utility improvements in conjunction with the buildings. The following is the land use breakdown for the project after completion of the improvements:

Land Use	Area (Acres)	Percentage
Bldg	0.68	1.59
Impervious (sidewalk, pavement, curb)	2.66	6.23
Stabilized Drive	0.25	0.59
Canal – wet	1.17	2.73
Developed Green Space	17.50	40.97
Undeveloped Green Space	20.46	47.90
Total Site Area	42.72	100.00

2.2 Control Elevation

The existing site was designed and permitted with 5 basins all at the same control elevation of 28.00 NGVD, which correlates to 26.56 NAVD for this location. Based on a review of the topographical data and existing water levels on site, this control elevation is accurate and is not proposed to change.

2.3 Stormwater Management System

This site is extremely pervious, with more existing detention volume than its impervious surfaces require according to Martin County codes. The existing control structures and outfall piping are not proposed to change and even with the additional impervious area created, the site's stormwater system will still exceed the requirements of Division 9 and 10 of Martin County's LDRs.

With the addition of the private cart barn buildings, 0.02 ac-ft of water quality storage will be lost by filling in a swale, but 650 linear feet of a French drain system with a 2-1/2" slotted opening will be installed at the edge of existing pavement, in front of the buildings to take any runoff from them. This drain will have an outfall into the dry detention pond immediately to the west of the buildings. The following calculations will demonstrate that the existing stormwater system is more than adequate to meet Martin County stormwater and flood regulations.

4.1 South Florida Shooting Grounds Drainage Calculations

A. Acreage

	Area (Acres)	Percentage
Bldg	0.68	1.59%
Impervious	2.66	6.23%
Stabilized Access	0.25	0.59%
Canal - wet	1.17	2.73%
Developed Green Space	17.50	40.97%
Natural Green Space (incl. south canal bank and field north of shooting fields)	20.46	47.90%
Total Site Area	42.72	100.00%

B. Minimum Elevations

Roads and Driveways, 2' above control or as modeled	11.14	Feet NAVD
Perimeter Berm, above 25-yr, 3-day model	11.57	Feet NAVD
Floors, 18" above roads or as calculated	30.71	Feet NAVD

C. Design Storm allowable discharge

The control structure has been designed to meet the Pre-Development Discharge Rate	1.77	cfs
--	------	-----

D. Water Level Elevations

From SFWMD ERP # 43-00093-S-03, issued on January 22, 2008	26.56	Feet
--	-------	------

E. Rainfall Amounts:

Roads Edge of Pavement (10-year, 1-day)	5.75	inches
Perimeter Berm (10-year, 3-day) * for SFWMD	8.50	inches
Perimeter Berm (25-year, 3-day) * for Martin County	9.75	inches
Floors (100-year, 3-day)	11.00	inches

DESIGN CRITERIA:

A. Quality

Greater of
 - the first inch of runoff from the entire site
 - 2.5 inches times the percent impervious

Martin County
 3.0 inches times percent impervious

B. Quantity

The control structure has been designed to meet the Pre-Development Discharge Rate	1.77	cfs
--	------	-----

COMPUTATIONS:

A. Quality

First inch of runoff from the developed site 1in x 1ft / 12in x Project Area (Tot. Site Area - (roofs+nat. green space))	1.76	acre-feet
2.5 inches times percent impervious		
1. Project Area = Total Site Area - (roofs + canal + natural green space)	20.41	acres
2. Impervious Area = Site Area - Pervious Area	2.91	acres
3. Percent Impervious = Impervious Area / Site Area	0.14	14%
4. 2.5 inches times percent impervious	0.36	inches
5. Volume required for treatment = inches to be treated x Site Area	0.61	acre-feet

4.1 South Florida Shooting Grounds Drainage Calculations

Martin County - 3 inches times percent Impervious
(Less lakes & wetlands - must include roofs)

1. Project Area = Total Site Area - (canal - natural green space)	21.09	acres
2. Impervious Area = Site Area - Pervious Area	3.47	acres
3. Percent Impervious = Impervious Area / Site Area	0.16	16%
4. 3.0 inches times percent impervious	0.49	inches
5. Volume required for treatment = inches to be treated x Site Area	0.87	acre-feet
6. Since this is dry detention, the water quality value must be increased by 1.25	1.08	acre-feet
7. The Required Water Quality Volume =	1.76	acre-feet
8. Required Water Quality Volume provided via Dry Detention		

B. SCS Curve Number

Developed Site Drainage Basin	28.40	feet
Average Site Grade	26.56	feet
Average Wet Season Water Table	1.84	feet
Average Depth to Water Table	1.65	inches
Soil Storage (Compacted Flatwood Soils)	17.50	acres
Developed Pervious Area	2.41	acre-feet
Soil Storage = Storage Available X Pervious Area		
Moisture Soil Storage, S =	1.37	inches
S = Available Soil Storage / Developed Area		
SCS Curve Number, CN	87.96	
CN = 1000 / (S + 10)		

C. Stage-Storage - Developed Area

Refer to separate stage-storage calculation sheets.

D. Recovery

Requirement #1: 1/2 treatment volume within 24 hours and five days		
Treatment Volume, TV	1.76	acre-feet
1/2 TV	0.88	acre-feet
Available storage for treatment volume (at TOB 30.20)	25.25	acre-feet
Storage available upon recovery	24.37	acre-feet
Stage at which system recovers	30.14*	
* The system never reaches this recovery stage during the design storm, so, in other words, there is always at least half the treatment volume available w/in the stormwater system during the design storm		
Requirement #2: 90% Volume within 12 days cessation of storm		
Total Volume, TTV	29.47	acre-feet
10% TTV	2.95	acre-feet
Stage at 10% TTV (Recovery stage)	28.21	
Time System Recovers (lookup from ICPR runs)	262.52	hours

Design Storms and Stages:

Parameter	Event	Rainfall
Parking Lot:	5 year, 1 day	5.75 in.
Design:	25 year, 3 day	9.75 in.
Finished Floors:	100 year, 3 day	11.00 in.

Basin Summary:

Basin	Area (Acres)	Control Elev. (Ft NAVD)	Water Quality Volume Req'd (ac-ft)	Water Quality Provided (ac-ft)	10-Yr, 1-Day Storm Peak Stage (ft NAVD)	Min. Road E.O.P. Elev. (ft NAVD)	25-Yr, 3-Day Storm Peak Stage (ft NAVD)	Perimeter Berm Elevation (ft NAVD)	100-yr, 3-day Peak Stage (ft NAVD)	Min. Finished Floor Elev.
Site	42.72	26.56	1.76	25.14	29.51	30.35	30.46	30.50	30.71	30.80

Control Structure Table

	Bleeder			Overflow Grate Elevation
	Size	Shape	Invert	
S-10	3" Dia.	Circular	26.30	29.28
S-11	3" Dia.	Circular	26.32	29.42

Discharge Summary

Basin Site	Pre-Develop Discharge Rate (cfs)	Post Develop Discharge Rate (cfs)
	2.28	1.77

This document may be reproduced upon request in an alternative format by contacting the County ADA Coordinator (772) 320-3131, the County Administration Office (772) 288-5400, Florida Relay 711, or by completing our accessibility feedback form at www.martin.fl.us/accessibility-feedback

DISCLOSURE OF INTEREST AFFIDAVIT

BEFORE ME, the undersigned authority, duly authorized to take acknowledgments and administer oaths, personally appeared the undersigned person on the date set forth below, who, first being duly sworn, deposes and says under penalties of perjury:

1. That the record property owner(s) of the Real Property described in **Exhibit "A"** to this Affidavit is (are) as follows:

Name	Address
South Florida Shooting Grounds LLC	PO Box 236 Mount Vernon, IA 52314

(If more space is needed attach separate sheet)

2. That the following is a list of every natural person and entity with any legal or equitable interest in the property (as defined in Section 10.2.B.3. Land Development Regulations, Martin County Code):

Name	Address	Interest
South Florida Shooting Grounds LLC	209 Commodore Drive Jupiter, FL 33477	100%

(If more space is needed attach separate sheet)

DISCLOSURE OF INTEREST AFFIDAVIT

3. That the following is a list of those, who have any interest in a contract for sale of the property, or a conveyance of any interest in the property, including but not limited to, real estate brokers and salespersons; and any and all mortgagees of the property:

Name	Address	Interest
N/A		

(If more space is needed attach separate sheet)

4. That the following is a list of all other applications for which the applicant has an interest as defined in subsection b. and c. of Section 10.2.B.3. Land Development Regulations, Martin County Code currently pending before Martin County. The list shall include any development applications, waiver applications, road opening applications, and lien reduction requests.

Application Name and/or Project Number	Names & Addresses of Parties Involved	Date	Type of Application	Status of Application ^{1*}
N/A				

(If more space is needed attach separate sheet)

¹ Status defined as: A = Approved P = Pending D = Denied W = Withdrawn

DISCLOSURE OF INTEREST AFFIDAVIT

This Affidavit is given for the purpose of establishing compliance with the provisions of Section 10.2.B.3 Land Development Regulations; Martin County Code.

FURTHER AFFIANT SAYETH NOT.

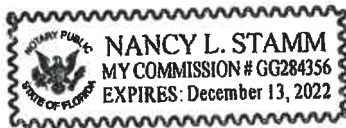
AFFIANT


Signature
Tobin R. "Toby" Overdorf
Print name

STATE OF: Florida

COUNTY OF: St. Lucie

The foregoing Disclosure of Interest Affidavit was sworn to, affirmed and subscribed before me this 18 day of September 20 20, by TOBIN R. OVERDORF, who is personally known to me or have produced _____ as identification.



(Notary Seal)


Signature

Notary Public, State of Florida

Print Name: Nancy L. Stamm

My Commission Expires: 12/13/2022

DISCLOSURE OF INTEREST AFFIDAVIT

Exhibit "A"
**(Disclosure of Interest and Affidavit) (Legal
Description)**

LEGAL DESCRIPTION

SECTION 4, TOWNSHIP 38 SOUTH, RANGE 39 EAST, MARTIN COUNTY, FLORIDA; LESS AN UNDIVIDED ONE-HALF INTEREST BY AGRI-GATORS, INC., A FLORIDA CORPORATION MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BEGIN AT THE SOUTH FLORIDA WATER MANAGEMENT DISTRICT'S EASEMENT MARKER IN THE NE CORNER OF SECTION 4 AND RUN SOUTH 600 FEET, THENCE RUN WEST 400 FEET, THENCE RUN NORTH 600 FEET, THENCE RUN EAST TO THE POINT OF BEGINNING.

TOGETHER WITH A NON-EXCLUSIVE ASSIGNMENT OF RIGHT OF ACCESS AS GRANTED IN THAT CERTAIN ACCESS AND UTILITY EASEMENT RECORDED IN O.R. BOOK 1632, PAGE 1160, PUBLIC RECORDS OF MARTIN COUNTY, FLORIDA.

**Martin County, Florida - Laurel Kelly,
C.F.A**

generated on 9/18/2020 12:49:12 PM EDT

1438

Summary

Parcel ID	Account #	Unit Address	Market Total Value	Website Updated
04-38-39-000-000-00010-8	11774	500 SW LONG DR, PALM CITY	\$6,208,200	9/12/2020

Owner Information

Owner(Current)	SOUTH FLORIDA SHOOTING GROUNDS LLC
Owner/Mail Address	PO BOX 236 MOUNT VERNON IA 52314
Sale Date	4/12/2004
Document Book/Page	<u>1688 1696</u>
Document No.	1605912
Sale Price	2550000

Location/Description

Account #	Map Page No.
11774	
Tax District 5005	Legal Description A PORTION OF SECTION 4-38-39 MARTIN COUNTY FLORIDA BEING MORE PARTICULARLY DESCRIBED IN OR 1688/1696 PUBLIC RECORDS MARTIN COUNTY FLORIDA
Parcel Address 500 SW LONG DR, PALM CITY	
Acres 631.3200	

NOTE: Legal description as shown is not to be used on legal documents. The legal description is intended for general information only. The Property Appraiser assumes no responsibility for the consequences of inappropriate uses or interpretations of the legal description.

Parcel Type

Use Code	5200 Cropland Soil Cpty CLII
Neighborhood	63000 Western Agricultural Areas

Assessment Information

Market Land Value	\$5,021,180
Market Improvement Value	\$1,187,020
Market Total Value	\$6,208,200

RECEIVED

JAN 5 2016

GROWTH MANAGEMENT
DEPARTMENT

Samuel T. Amerson
1124 NW Spruce Ridge Drive
Stuart, FL 34994
772-260-9613

December 30, 2015

Melissa G. Corbett, PE
The MilCorp Group, Inc.
6526 S Kanner Highway, # 236
Stuart, FL 34997

VIA email: melissac@themilcorpgroup.com

REF: South Florida Shooting Grounds Rev Major Final
Project Number S188-007

Dear Ms. Corbett:

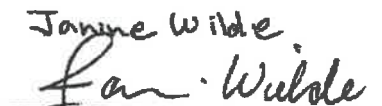
This letter is to certify that the above referenced sign was installed per Martin County requirements. The sign was posted according to and complies with the standards of the notice provisions of Article 10, Section 10.6: Development Review Procedures.

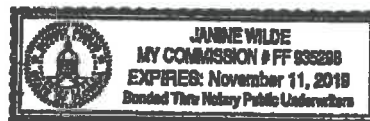

Samuel T. Amerson

12/30/15
Date

State of Florida
County of Martin

Samuel T. Amerson, who is personally known to me, who did not take an oath,
acknowledged the foregoing instrument before me on 12/30/15.


Notary Public, State of Florida



SouthFloridaShootingGrounds_Corbett_20151230

NOTICE

**DEVELOPMENT APPLICATION
SOUTH FLORIDA SHOOTING GROUNDS
REVISED MAJOR FINAL**

**FOR FURTHER INFORMATION CONTACT:-
THE MARTIN COUNTY GROWTH
MANAGEMENT DEPARTMENT
Call 772-288-5495**

PROJECT # S188-007



**BEFORE THE BOARD OF COUNTY COMMISSIONERS
MARTIN COUNTY, FLORIDA
DEVELOPMENT ORDER**

RESOLUTION NUMBER _____

**[REGARDING DENIAL OF REVISED FINAL SITE PLAN
FOR THE SOUTH FLORIDA SHOOTING GROUNDS]**

WHEREAS, this Board has made the following determinations of fact:

1. South Florida Shooting Grounds, LLC, submitted an application for revised final site plan approval for the South Florida Shooting Grounds project (S188-007), located on lands legally described in Exhibit A, attached hereto.
2. The Local Planning Agency was not required to hear this matter.
3. This Board has considered such recommendations.
4. Upon proper notice of hearing this Board held a public hearing on the application on October 13, 2020.
5. At the public hearing, all interested parties were given an opportunity to be heard.

NOW, THEREFORE, BE IT RESOLVED BY THE BOARD OF COUNTY COMMISSIONERS OF MARTIN COUNTY, FLORIDA, THAT:

A. The request for final site plan approval for South Florida Shooting Grounds project is hereby denied, for the following XXXX.

B. This resolution shall be recorded in the public records of Martin County. A copy of this resolution shall be forwarded to the applicant(s) by the Growth Management Department subsequent to recording.

DPQJ-1

Peter W. Walden, AICP
Principal Planner
Martin County Growth Management Department
pwalden@martin.fl.us Office 772-219-4923
2401 SE Monterey Road Stuart, FL 34996

COUNTY
EXHIBIT #2

Experience

Public Sector Work History

Principal Planner, AICP Martin County, FL

2018- present

- Project Coordinator- development application and land development regulation review
- Project Coordinator for all County projects for development review.
- Manage and process all zoning variances.
- Provide assistance with building permitting and zoning inquiries.
- Draft Land Development Regulation amendments.

Senior Planner, Martin County, FL.

2015- 2018

- **Development Review:** Project coordinator for development and zoning applications.
- Provide review of development applications for consistency with the Comprehensive Growth Management Plan and the Land Development Regulations.

Development Compliance Planner, City of Palm Beach Gardens, Palm Beach Gardens, FL.

2014- 2015

- **Development Review:** Review development and permit applications for compliance with land development code. Monitor development construction for compliance with development orders and environmental compliance. Provide related documents; draft time extensions, build out determinations, administrative amendments.

Zoning Compliance, Village of North Palm Beach, NPB, FL.

2012- 2014

- **Plan Review:** Member of the DRC, participate in all development review, focus on zoning regulations and land development policy and compliance. Review building permits for code compliance. Prepare and present projects to the Planning Commission, and maintain all corresponding files.

Private Sector Work History

- Over 20 years' experience in community development and home construction including landscape design and construction, infrastructure development and vertical construction.

Education & Certifications

Florida Atlantic University, Boca Raton, FL

B.P.M. Bachelor of Public Management (Administration), minor in Geography, Magna Cum Laude

Course work in: Urban Planning, GIS, Emergency Management, Program Evaluation, Transportation

Indian River State College, Stuart, FL

A.A, Environmental Science, Magna Cum Laude

Government Internship, Town of Jupiter, FL. 2011 Planning and Zoning, Business Development

Member of the American Institute of Certified Planners, AICP

FILED FOR RECORD
COMMISSION RECORDS
MARTIN COUNTY, FL
Date 10/13/2020
CAROLYN TIMMANN
CLERK OF CIRCUIT COURT
By MKV D.C.

