

MARK WILLIAMS
COMMISSIONER

A.G. 'SPUD' WOODWARD
DIRECTOR

AUG 17 2017

Jacob Shalack
University of Georgia Marine Institute
Sapelo Island, GA 31327

Re: Letter of Permission (LOP) for Repairing a Walkway, Factory Creek Tributary, Sapelo Island, McIntosh County, Georgia. (GPS 31.444083N/-81.283458W)

Dear Mr. Shalack:

This Letter of Permission (LOP) is in response to your request dated July 18, 2017 for replacing a walkway that leads to a flux tower. This project involves replacing ~600ft. of a 722ft. x 1.16ft. walkway that was damaged during Hurricane Matthew. According to the request, the project will include replacing ~200ft. of walkway that was recovered and rebuilding ~400ft. of walkway. Walkway sections will utilize the original 0.5ft x 0.5ft. foundation posts that are still intact. The project will begin 15 days after authorization is issued and will be completed no later than 6 months from the date of this letter.

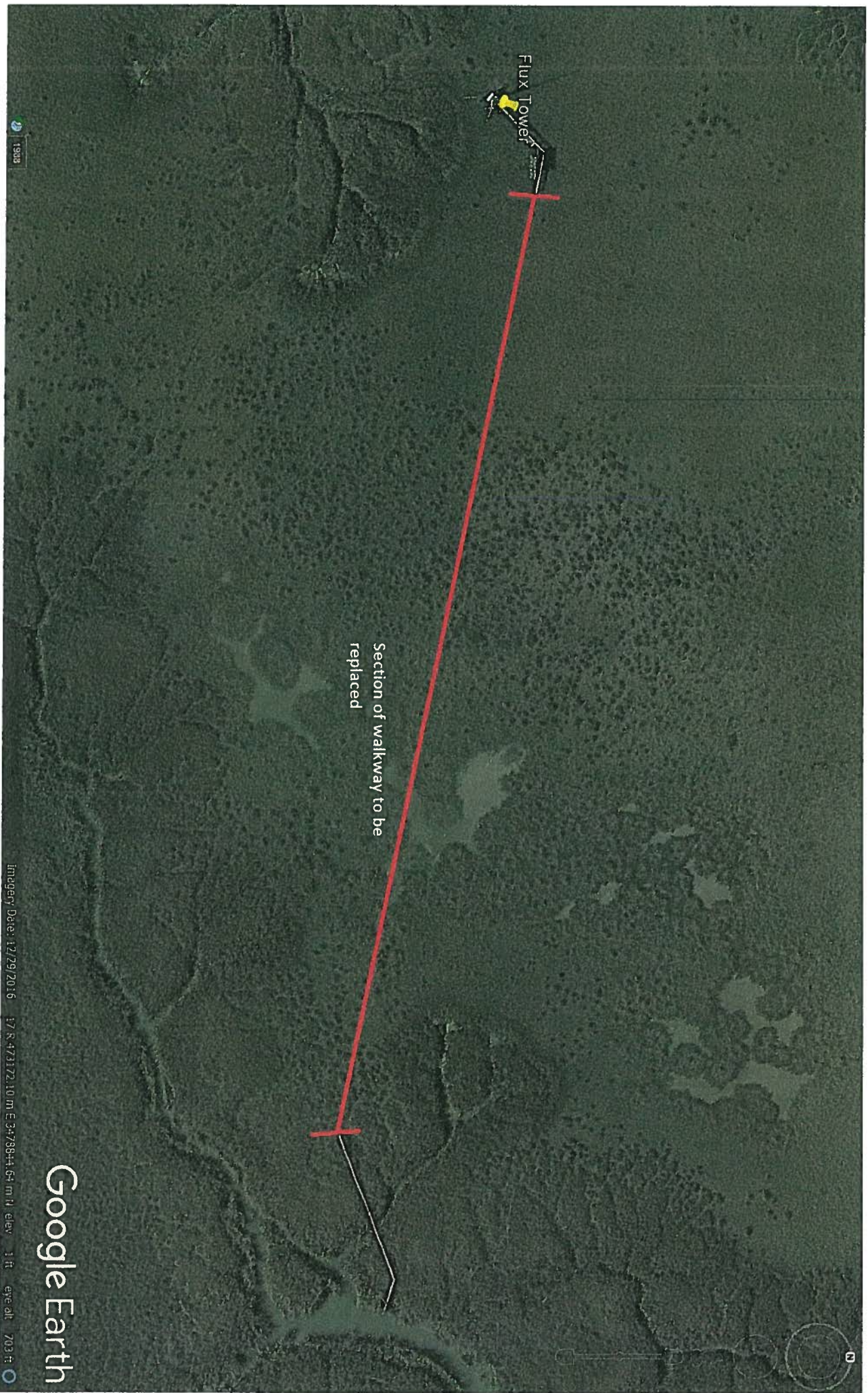
The Department authorizes the repair/replacement of the walkway as depicted in the attached description provided all Best Management Practices (BMPs) are used to prevent any erosion and sedimentation at the site and to protect coastal marshlands. All work will be done by the use of small hand tools to minimize impacts to coastal marshland. During repairs/replacement equipment, materials, or debris may **not** be placed in, disposed of, or stored in marsh jurisdictional areas. Any visible alterations in marsh topography will be restored immediately using low-impact hand tools. Any damage to the marsh vegetation that has not recovered naturally during the next growing season will be repaired by a method acceptable to the Department.

This authorization does not relieve you from obtaining any other required federal, state, or local permits. Tidal water bottoms and marshlands of coastal Georgia are public trust lands controlled by the State, except for such lands where a validated Crown Grant or State Grant exists. If you have any questions you may contact Paul Tobler at (912) 264-7218.

Sincerely,

Jill Andrews
Chief
Coastal Management Section

Enclosures: Description, Location Map, Original Authorization
cc: USACOE, McIntosh County Building Inspector
File: LOP20170181



Flux Tower

Section of walkway to be replaced

Google Earth

Imagery Date: 12/29/2016 17° N 473172.10 m E 3479844.64 m N elev 1 ft eye alt 203 ft

Post Storm

15388 5/20/14 9:10 AM

Flux Tower

Google Earth

Imagery Date: 5/16/2014 17 R 473172.10 m E 347884.64 m H elev 1 ft eye alt 703 ft

RILL STORM





Stockel, Skye

From: Jacob Shalack <shalack@uga.edu>
Sent: Friday, July 21, 2017 11:29 AM
To: Stockel, Skye
Subject: Re: Permit 673 Repair
Attachments: Flux Tower boardwalk current status.jpg; Flux Tower boardwalk after original construction.jpg

Hey Skye,

I have attached an image denoting the sections to be replaced and an image of how the boardwalk looked directly after the initial construction. Please let me know if these won't work.

All of the pilings are still intact. They are under the platform that holds the actual tower.

We just need to replace a section of the walkway. The legs go about 2 ft into the ground. We will be able to carry the replacement pieces along the first part of the boardwalk that is still in place.

Thanks!

Jacob Shalack
Sapelo Field Research Coordinator
Georgia Coastal Ecosystems LTER
Assistant Director for Operations
University of Georgia Marine Institute
Sapelo Island, GA 31327
GCE Office (912) 485-2204
UGAMI Office (912) 485-2225
shalack@uga.edu

From: Stockel, Skye <Skye.Stockel@dnr.ga.gov>
Sent: Friday, July 21, 2017 11:15 AM
To: Jacob Shalack
Subject: RE: Permit 673 Repair

Jacob,

Thanks for providing the photo and information below. To move forward with processing your repair request please provide a project drawing. This can be the drawings from the original permit with the missing sections to be replaced isolated. Are all of the piling still intact? Below you describe that construction will be offsite and sections will be carried in. Will you be able to access any portion of the site from the existing portions of the of the boardwalk? Please let me know if you have any questions.

Sincerely,

Skye Stockel

Coastal Permit Coordinator

[Coastal Resources Division](#)

(912) 262-3127 | M: (912) 266-0277

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From: Jacob Shalack [mailto:shalack@uga.edu]
Sent: Tuesday, July 18, 2017 12:46 PM
To: Stockel, Skye <Skye.Stockel@dnr.ga.gov>
Subject: Permit 673 Repair

Hey Skye,

I hope you are well. We would like to request a repair authorization for the boardwalk that was damaged during the hurricane last year. You can see in the picture, the large section that is missing now (~600ft). We have been able to locate about 200 ft and will reinstall that. The additional 400 ft we will have to construct again. We will do most of the construction offsite and carry sections to the marsh for installation. We will use a boat to get the pieces to the marsh and then carry them by hand to their final location. I expect the work to take about 3 months. We will start upon receiving the repair authorization.

Please let me know what other information you will need to proceed. Thanks for your assistance with this!

Jacob Shalack
Sapelo Field Research Coordinator
Georgia Coastal Ecosystems LTER
Assistant Director for Operations
University of Georgia Marine Institute
Sapelo Island, GA 31327
GCE Office (912) 485-2204
UGAMI Office (912) 485-2225
shalack@uga.edu



MARK WILLIAMS
COMMISSIONER

A.G. 'SPUD' WOODWARD
DIRECTOR

DEC 26 2012

Dr. Daniela DiIorio
Dep't of Marine Sciences, UGA
250 Marine Sciences Bldg.
Athens, GA 30602-3636

**RE: Coastal Marshlands Protection Act Permit# 673, State of Georgia,
Installation and Maintenance of Scientific Monitoring Equipment, Sapelo
Island National Estuarine Research Reserve, Duplin River, McIntosh County,
Georgia. SAS 2012-00542, NWP #5.**

Dear Dr. DiIorio,

The Coastal Marshlands Protection Committee considered and approved permit #673 referenced above under the Coastal Marshlands Protection Act O.C.G.A. 12-5-280 *et seq.* The permit and permit conditions are attached to this letter. All decision documents, as well as all other plans, documents and materials submitted during the application process become terms of this permit and are now enforceable conditions.

This letter and attachments are to be held by you for your files and for inspection by any authorized persons. The expiration date for the permit is five (5) years from the date of issuance. However, no construction may commence within the area of jurisdiction of the Act until the expiration of thirty (30) days following the date of issuance, provided there is no legal appeal of this permit, you have all other necessary federal, state and local authorizations and you have met all of the standard and special conditions as required by this permit.

Permitted Project Description:

Installation and maintenance of an Eddy Covariance Flux Tower ("flux tower") approximately 30' tall erected on a 5' x 5' (25 sq. ft.) platform supported by 6" x 6" foundation posts and powered by two solar panel structures approximately 2' x 12' (24 sq. ft.). The platform will be accessed by a 722' by 14" (843 sq. ft.) boardwalk. Total impacts to jurisdictional coastal marshlands from all structures are approximately 892 sq. ft. (0.02 acre). **and Special conditions apply to this permit.**

Marsh Component:

The marsh component of the project is the 30' tall "flux tower" erected on a 5' x 5' (25 sq. ft.) platform supported by 6" x 6" foundation posts, the two solar panel structures approximately 2' x 12' (24 sq. ft.) and the approximately 722' by 14" (843 sq. ft.) access boardwalk.

DEC 26 2012

Permit Placard:

Enclosed is the permit placard to be posted at the work site (within 24 hours) for the duration of the construction activity.

Post Construction Requirements: Compliance Certification and File Maintenance

Also enclosed is a *Certification of Compliance* that must be submitted to us within 30 days following completion of the permitted activity. Please include this compliance form with the post-construction survey, if required under the special conditions. Department staff will assess compliance and provide you with a written verification of project completion and compliance.

Conveyance of Ownership Interest:

If you as the permit holder sell, lease, rent, or otherwise convey the land or any portion of the land for which the permit was issued, you must notify the Department within 30 days of this transfer or conveyance. The permit shall continue in force in favor of the new owner, lessee, tenant, or other assignee so long as there is no change in the use of the land as set forth in the original application. The Department will transfer the permit to the new owner with all of the original terms and conditions.

We ask that you carefully read through this document and attachments and comply with the terms and conditions of this permit. Feel free to contact me if you need clarification of any of these conditions or for assistance with this project.

Sincerely,



Brad Gane
Chief
Ecological Services Section

Enclosures: CMPC Permit #673 and Permit Conditions, Compliance Certificate, Permit Placard, Drawings

cc: Mr. Mark Padgett, Savannah District Corps of Engineers
PO Box 889
Savannah, GA 3140

File #(051612.0000am_CMPA#673)



MARK WILLIAMS
COMMISSIONER

A.G. 'SPUD' WOODWARD
DIRECTOR

Coastal Marshlands Protection Committee Permit # 673
Final Conditions
December 19, 2012

State of Georgia

Installation and Maintenance of Scientific Monitoring Equipment

Sapelo Island National Estuarine Research Reserve

Duplin River, McIntosh County, Georgia

Project Description: Installation and maintenance of an Eddy Covariance Flux Tower (“flux tower”) approximately 30’ tall erected on a 5’ x 5’ (25 sq. ft.) platform supported by 6” x 6” foundation posts and powered by two solar panel structures approximately 2’ x 12’ (24 sq. ft.). The platform will be accessed by a 722’ by 14” (843 sq. ft.) boardwalk. Total impacts to jurisdictional coastal marshlands from all structures are approximately 892 sq. ft. (0.02 acre). **Standard and Special conditions apply to this permit.**

Marsh Component:

The marsh component of the project is the 30’ tall “flux tower” erected on a 5’ x 5’ (25 sq. ft.) platform supported by 6” x 6” foundation posts, the two solar panel structures approximately 2’ x 12’ (24 sq. ft.) and the approximately 722’ by 14” (843 sq. ft.) access boardwalk.

COASTAL MARSHLANDS PROTECTION ACT STANDARD CONDITIONS

1. The project must comply, as applicable, for areas permitted herein, with all other federal, state, and local statutes, ordinances, and regulations and the applicant must obtain all licenses and permits prior to commencement of construction.
2. This permit does not resolve actual or potential disputes regarding ownership of, rights in or over the property upon which the subject project is proposed, and shall not be construed as recognizing or denying any such rights or interests.
3. All plans, documents and materials contained in this permit application, required by Coastal Marshlands Protection Act of 1970, as amended O.C.G.A. § 12-5-280 *et seq.* are a part of this permit and conformance to such plans, documents, and materials are a condition of this permit. No change or deviation from these plans, documents, and materials shall be permitted without prior notification and approval by the Department or CMPC.
4. No further encroachment or construction shall take place within state jurisdiction, except as permitted by the CMPC. Any modification of the plans or structure in the jurisdictional area must be reviewed and approved by the Department or the CMPC, as necessary, prior to construction.

5. No construction or alteration of a project may commence until the expiration of 30 days following the date on which the application is approved; provided however that if a timely appeal is filed, no construction or alteration may commence until all administrative and judicial proceedings are terminated.
6. The permit must be posted onsite within twenty-four (24) hours of beginning construction.
7. A copy of these and all permit conditions must be supplied to the person in charge of construction. All contractors and subcontractors are responsible for strict adherence to all permit conditions.
8. All Best Management Practices (BMPs) should be used to prevent any erosion and sedimentation at the site. No equipment, materials, or debris may be placed in, disposed of, or stored in jurisdictional areas. Any visible alterations in the marsh topography will be restored immediately using low-impact hand tools. Any damage to the marsh vegetation that has not recovered naturally during the next growing season will be repaired by a method acceptable to the Department.
9. If the permitted improvements are damaged, fall into disrepair, become dilapidated, or are not meeting their expected usefulness and are not maintained at a serviceable level, it is the responsibility of the owner to remove the improvements. A new permit will be required to retain and repair the structure, improvement, or asset if it loses its structural integrity and is no longer serviceable.
10. The CMPC is not bound in the future to protect any improvement or asset authorized by the permit.

SPECIAL CONDITIONS

1. The permittee shall adhere to standard manatee conditions and procedures for aquatic construction as approved by the Savannah District Office of the US Army Corps of Engineers, US Fish and Wildlife Service, and the Georgia Department of Natural Resources.
2. Should unreasonable damage to the marsh surface occur, preexisting elevations shall be restored using hand tools. Such restoration must be coordinated with the Department prior to conducting.
3. There shall be no disposal of excavated material in coastal marshlands.
4. Permittee may be required to provide a post-construction survey to the Georgia Department of Natural Resources, Coastal Resources Division within 30 days of completion of the permitted activity. Such survey shall comply with the Georgia Plat Act O.C.G.A. 15-6-67 *et seq.*

Georgia Coastal Marshlands Protection Committee

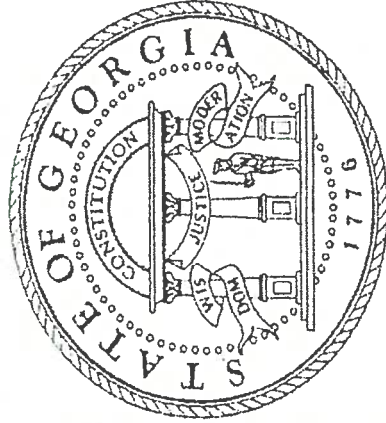
PERMIT

Issued Pursuant to O.C.G.A. 12-5-280

To: State of Georgia

For: Installation and maintenance of an Eddy Covariance Flux Tower ("flux tower") approximately 30' tall erected on a 5' x 5' (25 sq. ft.) platform supported by 6" x 6" foundation posts and powered by two solar panel structures approximately 2' x 12' (24 sq. ft.). The platform will be accessed by a 722' by 14" (843 sq. ft.) boardwalk. Total impacts to jurisdictional coastal marshlands from all structures are approximately 892 sq. ft. (0.02 acre). **Standard and Special conditions apply to this permit.**

Date: December 19, 2012
Expiration Date: December 19, 2017
Permit Number: 673
Authorized By: B. Gane



For further information, please contact the DNR Coastal Resources Division at (912) 264-7218



STATE OF GEORGIA
5-YEAR REVOCABLE LICENSE REQUEST

APPLICANTS NAME(S): Fred Hay

MAILING ADDRESS: PO Box 15 Sapelo Is, GA 31327
(Street) (City) (State) (Zip)

PROJECT ADDRESS/LOCATION: Sapelo Island

COUNTY: McIntosh WATERWAY: Duclin River DATE: 5-6-12

LOT, BLOCK & SUBDIVISION NAME FROM DEED: _____

Georgia Department of Natural Resources
Coastal Resources Division
One Conservation Way
Brunswick, Georgia 31520-8687

I am making application for a permit with the U.S. Department of the Army, Corps of Engineers, Savannah District. I understand that the issuance of such a permit will not relieve me of the obligation to obtain authorization from the State of Georgia since the proposed project would constitute an encroachment on the beds of tidewaters which are State-owned property. Accordingly, I hereby request that I be granted a revocable license from the State of Georgia. Attached hereto and made a part of this request is a copy of the plans and description of the project that will be the subject of such a license. I certify that all information submitted is true and correct to the best of my knowledge and understand that willful misrepresentation or falsification is punishable by law.

I understand that if permission from the State is granted, it will be a revocable license and will not constitute a license coupled with an interest. I acknowledge that this revocable license does not resolve any actual or potential disputes regarding the ownership of, or rights in, or over the property upon which the subject project is proposed, and shall not be construed as recognizing or denying any such rights or interests. I acknowledge that such a license would relate only to the property interests of the State and would not obviate the necessity of obtaining any other State license, permit or authorization required by State law. I further acknowledge that I will have no liveaboards, nor allow them to occur, at this structure. I recognize that I waive my right of expectation of privacy and I do not have the permission of the State of Georgia to proceed with such project until the Commissioner of DNR has signed a copy of this request.

Sincerely,

By: FRED HAY, SAPELO ISLAND MGR. / GA DNR/WPD
(Applicant), title if applicable

By: _____
(Applicant), title if applicable

Attachment

The State of Georgia hereby grants you a revocable license not coupled with an interest as provided in your request. This area may now or in the future be utilized by boats employing power drawn nets under the provisions for commercial or sport bait shrimping. In its occupancy and use of the premises, licensee shall not discriminate against any person on the basis of race, gender, color, national origin, religion, age, or disability. This covenant by licensee may be enforced by termination of this license, by injunction, and by any other remedy available at law to the Department. The project proposed for this license must be completed within 5 years of the date of issuance of the license and must be maintained in serviceable condition. Otherwise, action will be initiated to revoke this license and all structure must be removed immediately at the licensee's expense.

GA DNR / HMP
MAY 14 2012

STATE OF GEORGIA
Office of the Governor

By: B. Coome
For: Mark Williams, Commissioner-DNR

DATE: DEC 19 2012



MARK WILLIAMS
COMMISSIONER

A.G. 'SPUD' WOODWARD
DIRECTOR

CERTIFICATION OF COMPLIANCE
FOR THE CONSTRUCTION AND MAINTENANCE
OF PROJECTS PERMITTED UNDER
THE COASTAL MARSHLAND PROTECTION ACT

PERMITTEE:

Name: State of Georgia

City or Town: Sapelo Island National Estuarine Research Reserve

Island or Waterway: Duplin River

County: McIntosh

Permit Number: 673

Within 30 days of completion of the activity authorized by this permit, sign this certification and return to the Habitat Management Program of the Ecological Services Section at the address listed below.

Please note that your permitted activity is subject to compliance inspections by DNR representatives before and after completion of the project. If you fail to comply with the permit terms and conditions it may be subject to suspension, modification, or revocation.

Permittee Statement

"I hereby certify that the work authorized by the above referenced permit has been completed in accordance with the terms and conditions of the said permit."

Signature of Permittee:

Date: _____

Site Overhead View

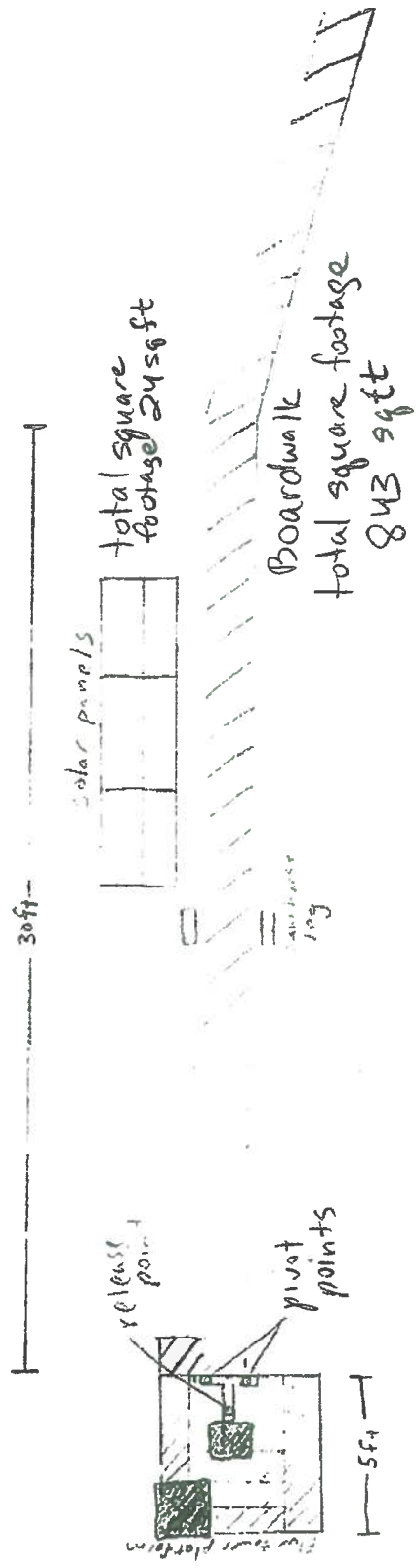
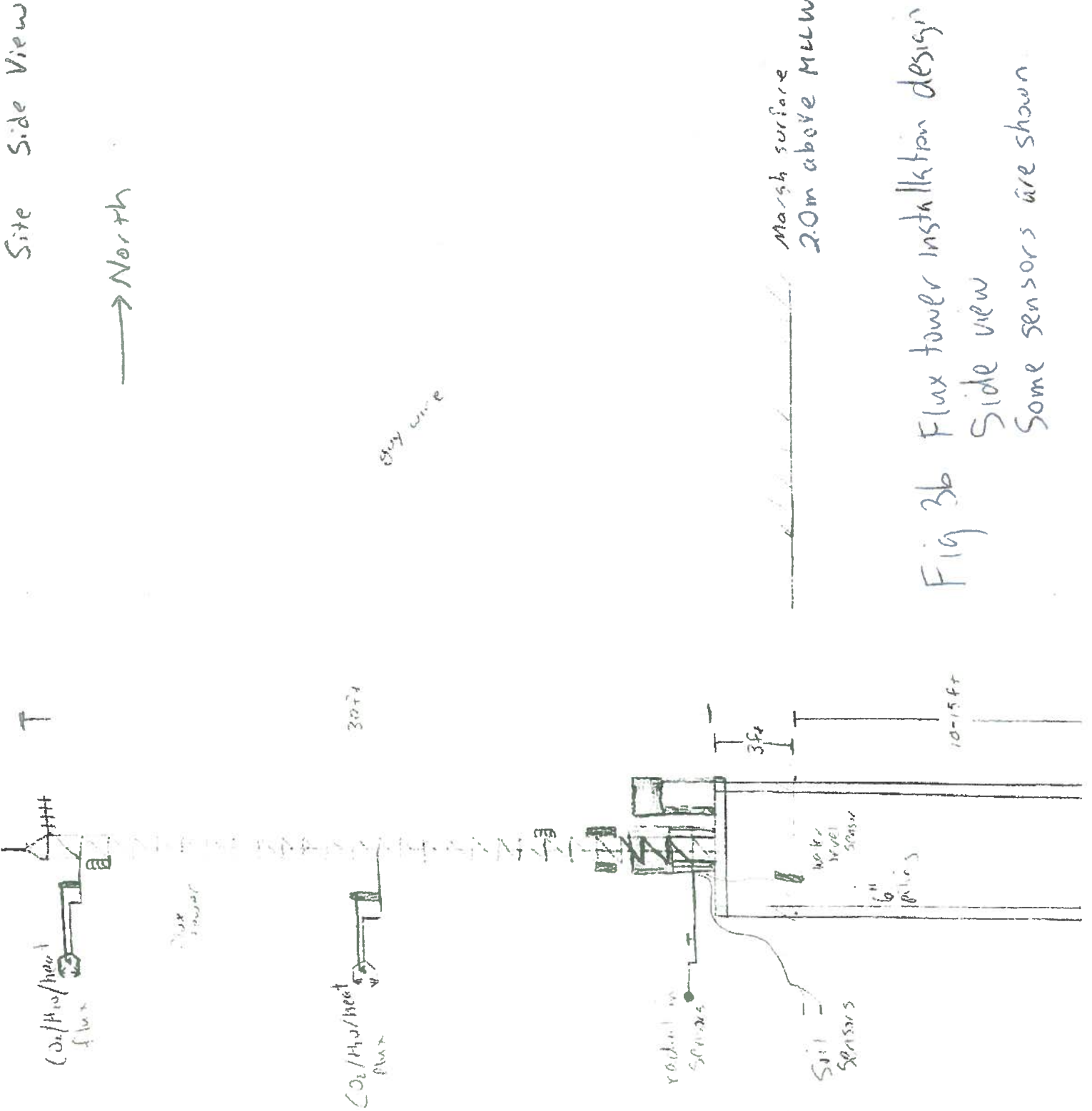


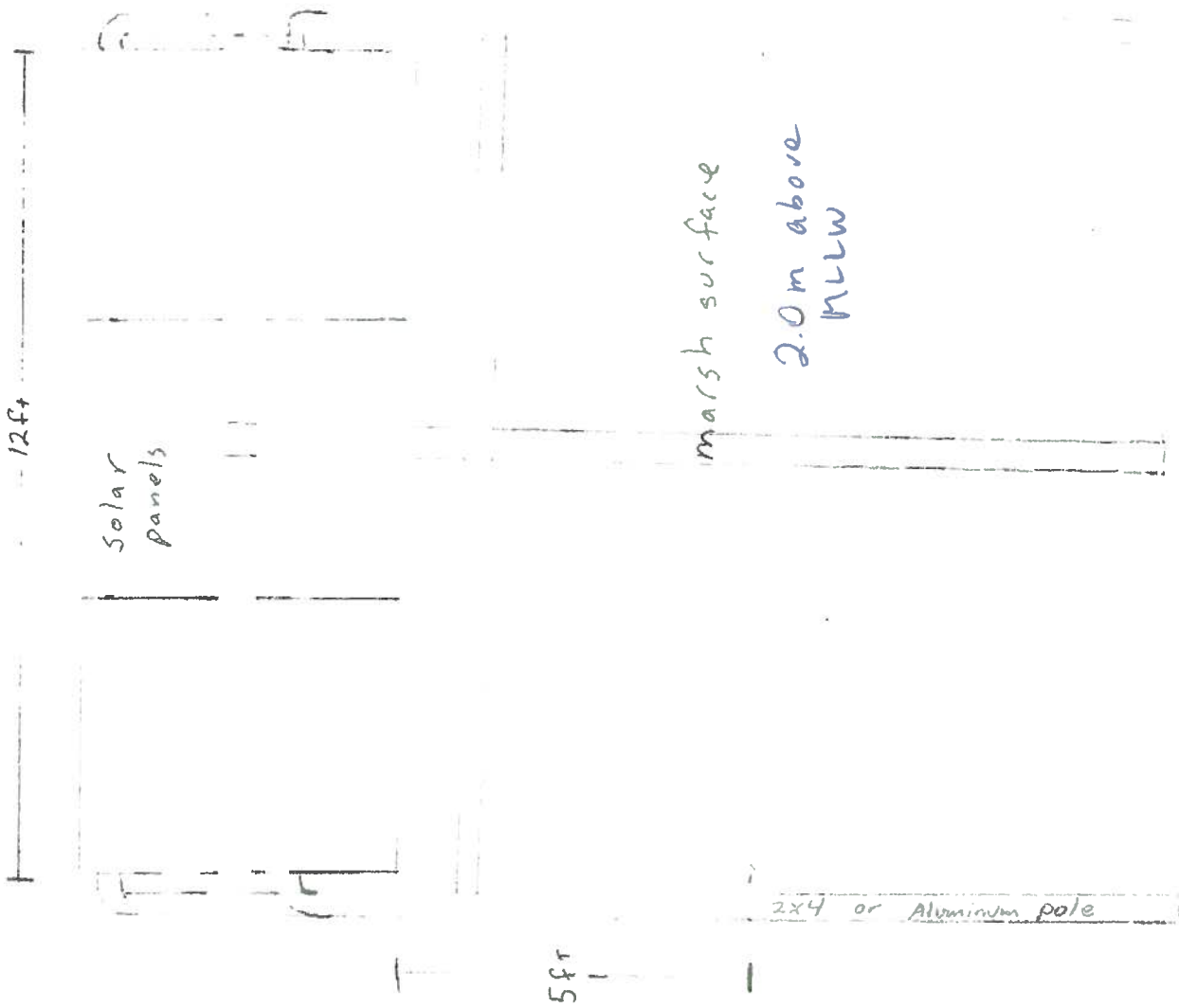
Fig 3a. Flux tower installation design
 Overhead view
 Total area over marsh surface is
 approximately 892 sqft

GA DNR / HMP
 MAY 14 2012

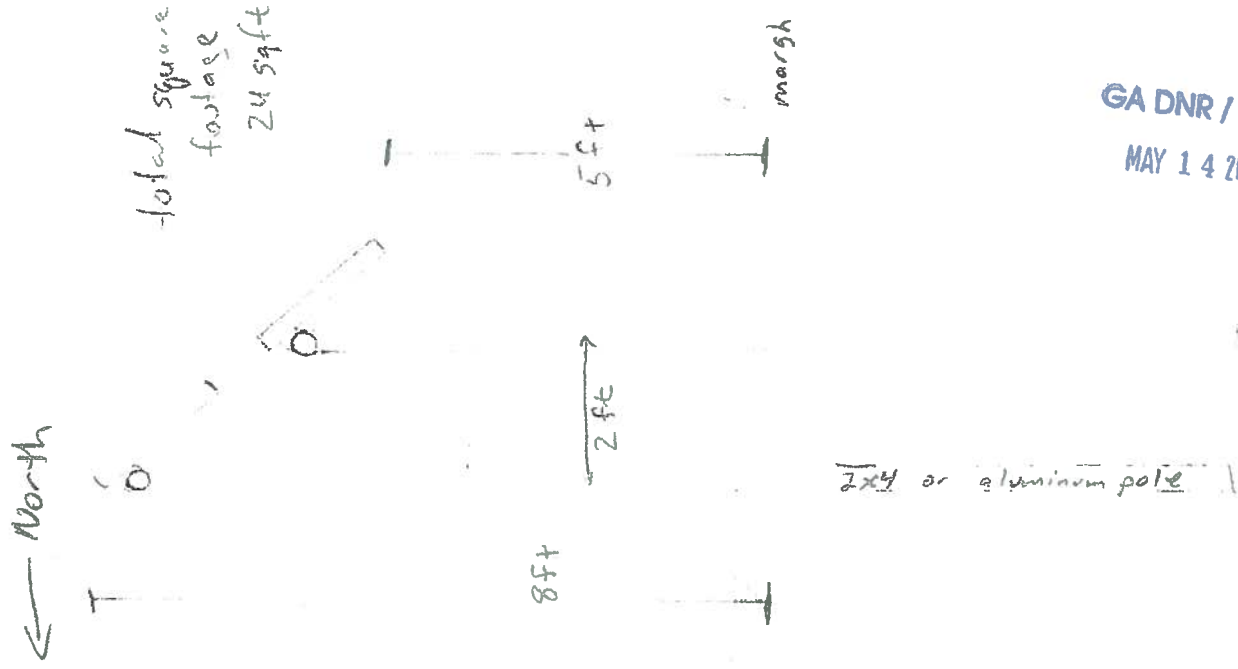
GA DNR / HMP
MAY 14 2012



Solar Panel front view

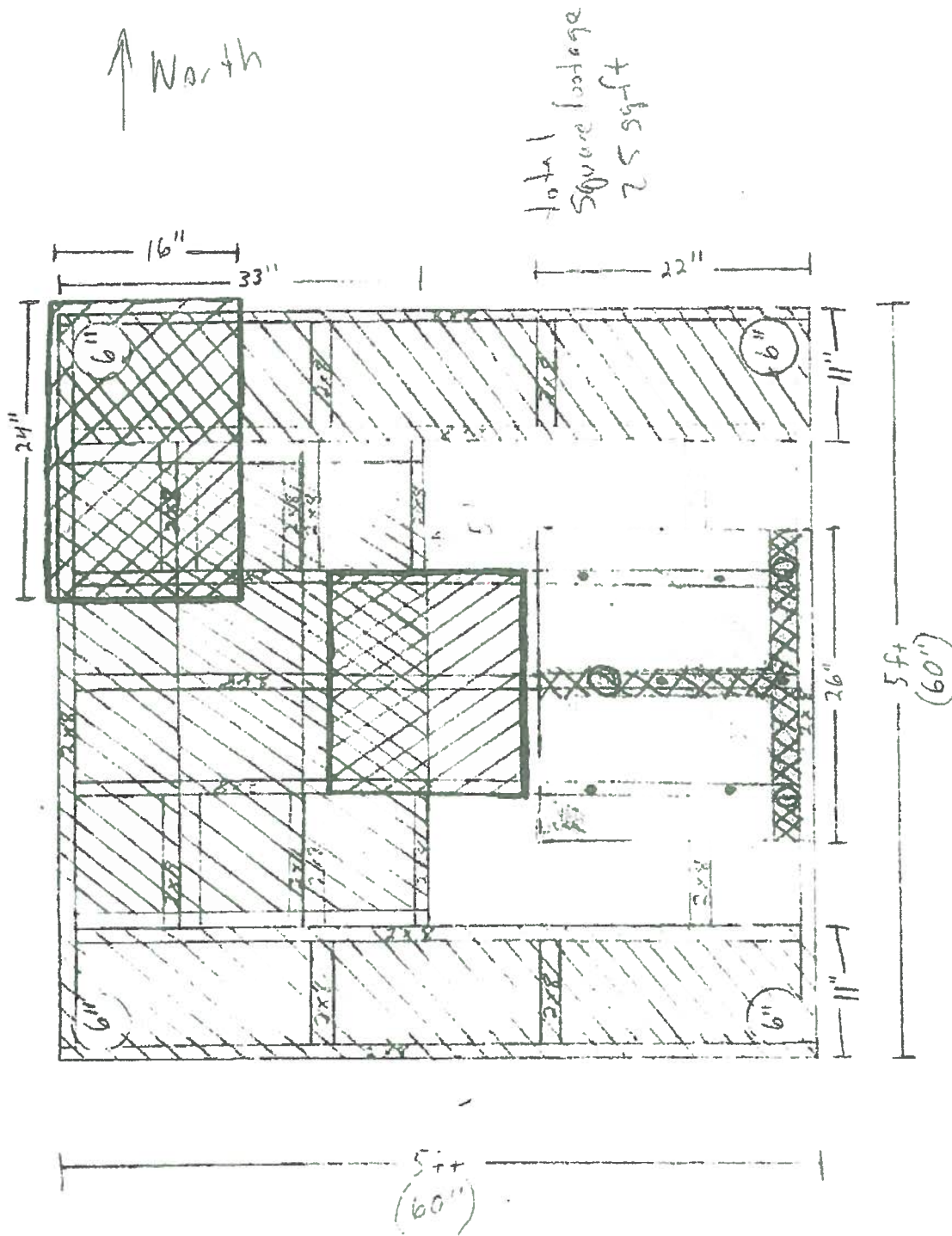


Solar Panel - Side View



GA DNR / HMP
MAY 14 2012

Fig 3e. Solar Panel mounting frame - front and side views







-  Three Flow decking
-  Five Tower base plate
-  Stainless steel plate
-  Battery box and Gas cylinder housings

Fig 3c Flux Tower Platform
Over head structural view

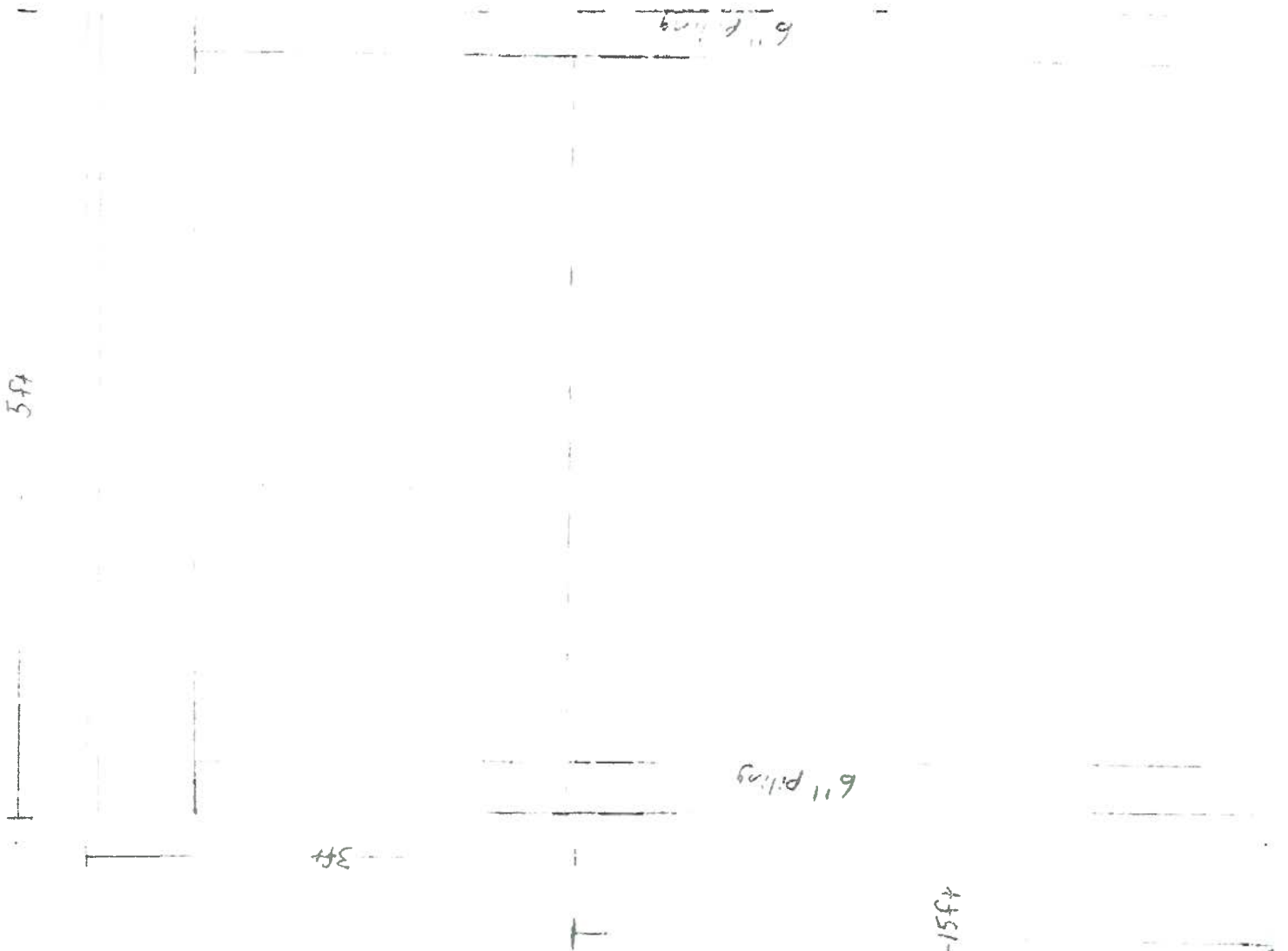
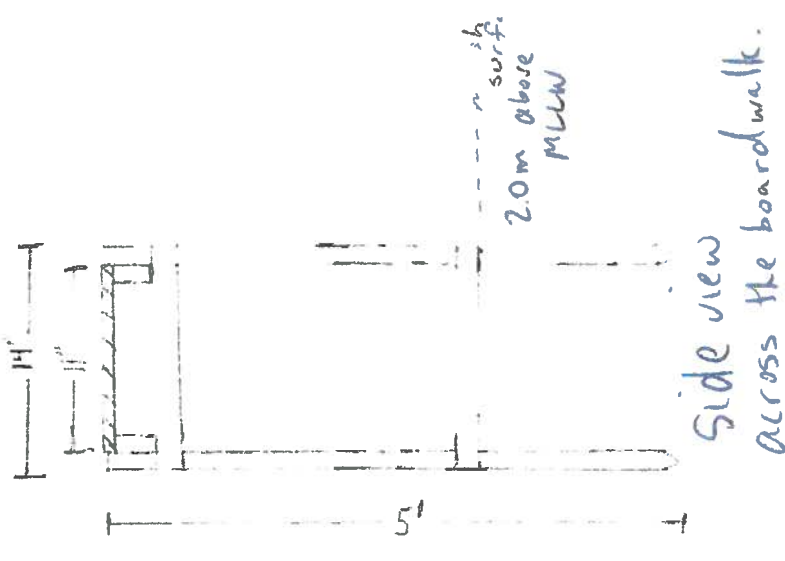



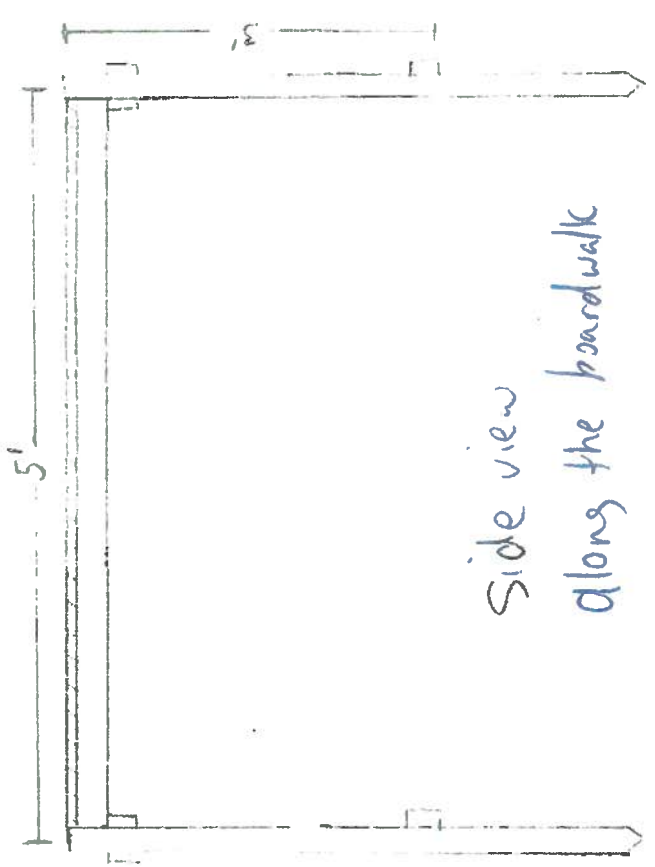
Fig 3d Flux Tower Platoon
Side structural View

GA DNR / HMP
MAY 14 2012



Boardwalk design

Thru Flow decking

total square footage: 842 sqft

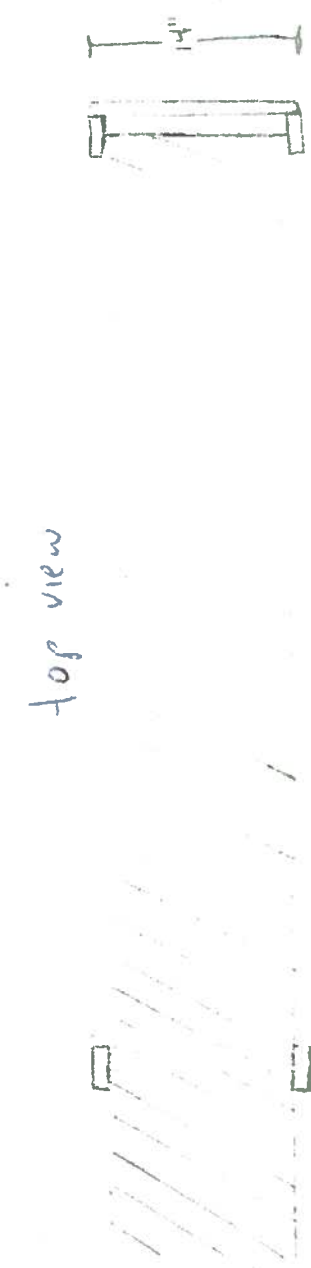


Fig 3f. Boardwalk design