Environmental Consulting & Technology, Inc.
6640 Southpoint Parkway, Suite 130, Jacksonville , Florida 32216

FDEP Environmental Resource Permit Application

EDF RENEWABLES DISTRIBUTED SOLUTIONS

Lake Placid, FL

December 2018

ECT No. 180487-0300

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December 10, 2018
180487-0300

Mr. Daniel Sensi, Environmental Manager
Submerged Lands and Environmental Resource Program
South District Office
Florida Department of Environmental Protection
2295 Victoria Avenue, Suite 364
Fort Myers, Florida 33901

Re: EDF Renewables Distributed Solutions
Lake Placid Solar Project
Environmental Resource Permit Application

Dear Mr. Sensi:

Environmental Consulting & Technology, Inc. (ECT) is pleased to submit the Application for Environmental Resource Permit on behalf of EDF Renewables Distributed Solutions, (EDF). EDF has undertaken an initiative to develop solar photovoltaic (PV) projects in Florida. The Lake Placid Solar Project is one such project. The Lake Placid Solar Project is a proposed approximately 45-megawatt (MW) solar project near Lake Placid, in Highlands County, Florida. The proposed Lake Placid Solar energy generation facility will employ photovoltaic (PV) panels that absorb sunlight and directly produce electricity. The project area encompasses approximately 460 acres located north of U.S. Highway 27 along both sides of St. Johns Street in Section 24, Township 36 south, Range 29 east and Section 19, Township 36 south, Range 30 east in unincorporated Highlands County, Florida. The site, currently owned by Cow Slough, Inc., and Price Groves, LLC, is leased by EDF. The site is used for citrus production, while surrounding adjacent properties are in agricultural use and industrial/commercial development, including a permitted yard waste disposal facility.

EDF and consultants conducted detailed analyses on the project site including onsite field studies such as environmental site assessments, wetland delineations, listed species surveys, etc. EDF and consultants designed a site plan that specifically avoided impacts to wetlands and surface waters. The construction of the proposed solar power plant will not impact wetlands or other surface waters. Construction or maintenance activities should not have any significant impact on vegetation, wildlife, or aquatic life.

6440 Southpoint Parkway, Suite 130 Jacksonville, FL 32216

(904) 296-0544

FAX (904) 296-2473

Stormwater management has been designed for all new impervious areas including; access roads; the parking area and O&M building; and the onsite switchyard. Stormwater management consists of providing shallow swales for treatment and attenuation. Grading on the site will be limited to areas that exceed the maximum array slope tolerance of 7% as shown on the plans. It is not anticipated that these minor grading changes will affect the overall drainage patterns of the site.

EDF contracted with ECT to provide engineering design and environmental consulting services for preparation of the Environmental Resource Permit application for the project, respectively. ECT is the designated Consultant for the project.

Attached is the ERP Application. This application is submitted in electronic format only. Once application is received, ECT will pay the associated fee via check or credit card. If you should have any questions or require any additional information, please do not hesitate to contact me directly at (904) 861-0232. Thank you for your kind attention and expeditious response to this matter.

Sincerely,

ENVIRONMENTAL CONSULTING & TECHNOLOGY, INC. (ECT)

Michael Savage
Senior Scientist | Office Manager

Chris R. Fagerstrom, P.E.
Principal Engineer | Branch Manager

Attachments

Section A:
General Information for All Activities

Part 1: Name, Application Type, Location, and Description of Activity

A. Name of project, including phase if applicable:

Lake Placid Solar

B. This is for (check all that apply):

☑ Construction and operation of **new** works, activities, and/ or a stormwater management system

☐ **Conceptual Approval** of proposed works, activities and/ or a stormwater management system

☐ Modification or alteration of **existing** works, activities, and/or a stormwater management system. Provide the existing DEP or WMD permit #, if known: Note: Minor modifications do not require completion of this form, and may instead be requested by letter in accordance with section 6.2 of Applicant's Handbook Volume I.

☐ **Maintenance or repair** of works, activities, and/ or a stormwater management system previously permitted by the DEP or WMD. Provide existing permit #, if known:

☐ Abandonment or removal of works, activities, and/ or a stormwater management system.

Provide existing DEP or WMD permit #, if known:

☐ Operation of an **existing unpermitted** work, activity, and/or stormwater management system.

☐ Construction of additional phases of a permitted work, activity, or system.

Provide the existing DEP or WMD permit #, if known:

C. **List the type of activities proposed. Check all that apply**, **and provide the supplemental information requested in each of the referenced application sections.** Please also reference Applicant's Handbook Volumes I and II for the type of information that may be needed.

☐ Activities associated with one single-family residence, duplex, triplex, or quadruplex that do not qualify for an exemption or a General Permit: **Provide the information requested in Section B. Do not complete Section C.**

☐ Activities within wetlands or surface waters, or within 25 feet of a wetland or surface water, (not including the activities associated with an individual single-family residence). Examples include dredging, filling, outfall structures, docks, piers, over-water structures, shoreline stabilization, mitigation, reclamation, and restoration/enhancement. **Provide the information requested in Section C.**

☐ Activities within navigable or flowing surface waters such as a multi-slip dock or marina, dry storage facility, dredging, bridge, breakwaters, reefs, or other offshore structures: **In addition to Section C, also provide the information requested in Section D.**

☐ Activities that are (or may be) located within, on, or over state-owned submerged lands (See Chapter 18-21, F.A.C. https://www.flrules.org/gateway/ChapterHome.asp?Chapter=18-21): **In addition to Section B or C, also provide the information requested in Section F.**

☑ Construction or alteration of a stormwater management system serving residential, commercial, transportation, industrial, agricultural, or other land uses, or a solid waste facility (excluding mines that are regulated by DEP). **Provide the information requested in Section E.**

☐ Creation or modification of a Mitigation Bank (refer to Chapter 62-342, F.A.C. https://www.flrules.org/gateway/ChapterHome.asp?Chapter=62-342): **Provide the information requested in Section G.**

☐ Mines (as defined in Section 2.0 of Applicant's Handbook Volume I) that are regulated by the DEP: **Provide the information requested in Section H.**

☐ Other, describe: Please contact the Agency to determine which additional sections of the application are needed. See Attachment 2 for Agency contacts.

D. Describe in general terms the proposed project, system, works, or other activities. For permit modifications, please briefly describe the changes requested to the permit:
The Lake Placid Solar Project is a proposed approximately 45-megawatt (MW) solar project near Lake Placid, Florida. The proposed Lake Placid Solar energy generation facility will employ photovoltaic (PV) panels that absorb sunlight and directly produce electricity. The project area encompasses approximately 460 acres located north of U.S. Highway 27 along both sides of St. Johns Street in Section 24, Township 36 south, Range 29 east and Section 19, Township 36 south, Range 30 east in unincorporated Highlands County, Florida. The site, currently owned by Cow Slough, Inc., and Price Groves, LLC, is used for citrus production, while surrounding adjacent properties are in agricultural use and industrial/commercial development, including a permitted yard waste disposal facility. Most of the site drains northeast into Lake Apthorpe, while a smaller portion of the site drains to a small, unnamed lake in the northwest corner of the site

E. Project/Activity Street/Road Address or other location (if applicable):
City: Lake Placid County(ies): Highlands Zip: 33852

Note: For utility, road, or ditch/canal activities, provide a starting and ending point using street names and nearest house numbers or provide length of project in miles along named streets or highways.

F. Project location map and Section, Township, and Range information (use additional sheets if needed):

Please attach a location map showing the location and boundaries of the proposed activity in relation to major intersections or other landmarks. The map should also contain a north arrow and

a graphic scale; show Section(s), Township(s), and Range(s); and must be of sufficient detail to allow a person unfamiliar with the site to find it.

Section(s): Township: Range: Land Grant name, if applicable

Section(s): 24 Township:36 Range:29

Section(s): 19 Township:36 Range:30

G. Latitude (DMS) 27° 20’01.04’N Longitude (DMS) 81° 22’08.12”W (Taken from central location of the activity). Explain source for obtaining latitude and longitude (i.e. U.S.G.S. Quadrangle Map, GPS, online resource):

H. Tax Parcel Identification Number(s): C-13-36-29-A00-0020-0000, C-24-36-29-A00-0010-0000, C-24-36-29-A00-0050-0000, C-18-36-30-A00-0010-0000, C-19-36-30-A00-0110-0000, C-19-36-30-A00-0120-0000

[Number may be obtained from property tax bill or from the county property appraiser’s office; if on multiple parcels, provide multiple Tax Parcel Identification Numbers]

I. Directions to Site (from major roads; include distances and landmarks as applicable): South on FL-60 for 14.9 miles, south on US 27 for 45.6 miles toward Avon Park, north on St. John Street for 1.2 miles, pass Oak Hill Cemetery, east on to Walker Road for.6 miles. .

J. Project area or phase area: 329.82 acres

K. Name of waterbody(ies) (if known) in which activities will occur or into which the system will discharge:

Grassy Creek waterbody

The following questions (M-O) are not applicable to activities related to an individual single-family residence, including a dock, pier, and/or seawall associated with that residence.

L. Is it part of a larger plan of development or sale? ☐ yes ☑ no

M. Impervious or semi-impervious area excluding wetlands and other surface waters (if applicable):

4.87 acres or 212,039 square feet

N. Volume of water the system is capable of impounding (if applicable):

Normal Pool: 0 acre-feet	Depth: 0 ft
Maximum Pool: .4012 acre-feet	Depth: 1ft

Part 2: Supplemental Information, and Permit History

A. Is this an application to modify an existing Environmental Resource Permit or to construct or implement for part of a multi-phase project, such as a project with a Conceptual Approval permit? ☐ Yes ☑ No

(If you answered "yes", please provide permit numbers below*):*

Agency	Date	Location	Meeting Attendees

B. Indicate if there have been any **pre-application meeting(s)** with the DEP, WMD, or delegated local government, or other discussions, meetings, or coordination with other stakeholders or agencies about the proposed project, system or activity. If so, please provide the date(s), location(s) of the meeting, and the name(s) of Agency staff that attended the meeting(s):

Agency	Date	Location	Meeting Attendees
FDEP	11/14/18	FDEP South District Office: 2295 Victoria Ave Suite 364 Fort Myers, FL 33901	FDEP: Nolin Moon, Alison Egbon, Daniel Sensi, Jonathan Guinn ,and Chadd Chustz EDF Renewables Distributed Solutions: Jordana Jusidman, Lincoln Lande, Tom Payne Environmental Consulting & Technology, Inc: Michael Savage and Chris Fagerstrom

C. **Attach a depiction (plan and section views), which clearly shows the works or other activities proposed to be constructed.** Use multiple sheets, if necessary, a scale sufficient to show the location and type of works, and include a north arrow and a key to any symbols used. **Specific information to be included in the plans is based on the activities proposed and is further described in Sections B-H**. However, supplemental information may be required based on the specific circumstances or location of the proposed works or other activities.

D. Processing Fee: **Please submit the application processing fee along with this application form and supplemental information.** Processing fees vary based on the size of the activity, the type of permit applied for, and the reviewing Agency. Please reference Appendix D of Applicant's Handbook Volume I to determine the appropriate fee.

Part 3: Applicant and Associated Parties Information

Instructions: Please complete the following sections. For corporations, list a person who is a registered agent or officer of the corporation who has the legal authority to bind the corporation.

A. Applicant (Entity Must Have Sufficient Real Property Interest)

☑ **This is a Contact Person for Additional Information**

Last Name: Viens | First Name: Rod | Middle Initial:
Title: Executive Vice President | Company: EDF Renewables Distributed Solutions
Address: 5 Commerce Ave
City: Lebanon | State: NH | Zip:03784
Home Telephone | Work Telephone: (802) 698-3060
Cell Phone: (802) 698-3060
Email address: Lincoln.lande@edf-re.com

Correspondence will be sent via email, unless you check here to receive it via US Mail: ☐

B. Land Owner(S) (If Different or in Addition to Applicant)

☐ **Check here if land owner is also a co-applicant**

Last Name: Smoak, III | First Name: John | Middle Initial:
Title: Owner | Company: Cow Slough, Inc
Address: 1025 CR 17N
City: Lake Placid | State: Fl | Zip:33852
Home Telephone | Work Telephone: (863) 441-7912
Cell Phone:
Email address: john@smoakgroves.com

Correspondence will be sent via email, unless you check here to receive it via US Mail: ☐

C. Operation and Maintenance Entity(see Applicant's Handbook I, Section 12.3)

Last Name: Payne | First Name: Tom | Middle Initial:
Title: Senior Project Manager | Company: EDF Renewables Distributed Solutions
Address: 9175 Guilford Road, Suite 202
City: Columbia | State: MD | Zip: 21046
Home Telephone: | Work Telephone (802) 359-6521
Cell Phone: (443) 477-7497
Email address: thomas.payne@edf-re.com

Correspondence will be sent via email, unless you check here to receive it via US Mail: ☐

D. Co-Applicant (If Different or In Addition to Applicant and Owner)

Last Name: Price | First Name: Bryan | Middle Initial:
Title: Managing Member | Company: Price Groves, LLC
Address:212 Huntly Oaks Blvd
City: Lake Placid | State: FL | Zip: 32169
Home Telephone | Work Telephone:
Cell Phone:
Email address:

Correspondence will be sent via email, unless you check here to receive it via US Mail: ☐

E. Registered Professional Consultant

☑ **This is a contact person for additional information**

Last Name: Fagerstrom | First Name: Chris | Middle Initial:
Title: Principal Engineer | Company: Environmental Consulting & Technology, Inc.
Address: 707 East Third Avenue
City: New Smyrna Beach | State: FL | Zip: 32169
Home Telephone | Work Telephone: (386) 427-0694 Ext. 305

Cell Phone: (386) 852-0387
Email address: cfagerstrom@ectinc.com

Correspondence will be sent via email, unless you check here to receive it via US Mail: ☐

F. Environmental Consultant **This is a contact person for additional information**

☑ **This is a contact person for additional information**

Last Name: Savage | First Name: Michael | Middle Initial:
Title: Project Manager | Company: Environmental Consulting & Technology, Inc.
Address: 6440 Southpoint Parkway, Suite 130
City: Jacksonville | State: FL | Zip: 32216
Home Telephone | Work Telephone: (904)861-0232
Cell Phone: 830-708-6515
Email address: msavage@ectinc.com

Correspondence will be sent via email, unless you check here to receive it via US Mail: ☐

G. Agent Authorized to Secure Permit (If Different from Consultant)

Last Name: | First Name: | Middle Initial:
Title: | Company
Address:
City: | State: | Zip:
Home Telephone | Work Telephone:
Cell Phone:
Email address:

Correspondence will be sent via email, unless you check here to receive it via US Mail: ☐

If necessary, please add additional pages for other contacts and property owners related to this project.

H. Real Property Interest

a. Permits are only issued to entities having sufficient real property interest as described in Section 4.2.3(d) of Applicant's Handbook Volume I**. Please attach evidence of the applicant's real property interest over the land upon which the activities subject to the application will be conducted, including mitigation areas (if applicable).** Refer to Sections 4.2.3(d)-(e) for sufficient real property interest documentation.

b. For activities that require a recorded notice in accordance with rule 62-330.090(7), F.A.C., please provide either the complete legal description of the property or a copy of the pages of the document recorded in the public records that contains the complete legal description. If the land upon which the proposed activities are to occur is not owned by the applicant, the applicant must also provide copies of any right-of-way, leases, easements, or other legal agreement which authorizes the applicant to perform the

Part 4: Signatures and Authorization to Access Property

Instructions: For multiple applicants please provide a separate Part 4 for each applicant. For corporations, the application must be signed by a person authorized to bind the corporation. A person who has sufficient real property interest (see Section 4.2.3(d) of Applicant's Handbook Volume I) is required in (B) to authorize access to the property, except when the applicant has the power of eminent domain.

A. By signing this application form, I am applying for the permit and any proprietary authorizations identified above, according to the supporting data and other incidental information filed with this application. I am familiar with the information contained in this application and represent that such information is true, complete and accurate. I understand this is an application and not a permit, and that work prior to approval is a violation. I understand that this application and any permit issued or proprietary authorization issued pursuant thereto does not relieve me of any obligation for obtaining any other required federal, state, water management district, or local permit prior to commencement of construction. I agree to operate and maintain the permitted system unless the permitting agency authorizes transfer of the permit to a different responsible operation and maintenance entity. I understand that knowingly making any false statement or representation in this application is a violation of Section 373.430, F.S. and 18 U.S.C. Section 1001.

Rod Viens
Typed/Printed Name of Applicant or Applicant's Authorized Agent

Signature of Applicant or Applicant's Authorized Agent

Date 12/7/18

(Corporate Title if applicable)

B. Certification of Sufficient Real Property Interest And Authorization For Staff To Access The Property:

I certify that:

☑ **I possess sufficient real property interest in or control, as defined in Section 4.2.3 (d) of Applicant's Handbook Volume I,** over the land upon which the activities described in this application are proposed and I have legal authority to grant permission to access those lands. I hereby grant permission, evidenced by my signature below, for staff of the Agency to access, inspect, and sample the lands and waters of the property as necessary for the review of the proposed works and other activities specified in this application, upon advance notice. I authorize these agents or personnel to enter the property as many times as may be necessary to make such review, inspection, and/ or sampling. Further, if a permit is granted, upon advance notice, I agree to provide entry to the project site for such agents or personnel with proper identification to determine compliance with permit conditions and permitted plans and specifications.

OR

☐ I represent an entity having **the power of eminent domain and condemnation authority**, and I/we shall make appropriate arrangements to enable staff of the Agency to legally access, inspect, and sample the property as described above.

Typed/Printed Name Rod Viens

Signature

Date 12/7/18

(Corporate Title if applicable)

(Corporate Title if applicable)

C. Designation of Authorized Agent (If Applicable):

I hereby designate and authorize to act on my behalf, or on behalf of my corporation, as the agent in the processing of this application for the permit and/or proprietary authorization indicated above~~;~~ and to furnish, on request, supplemental information in support of the application. In addition, I authorize the above-listed agent to bind me, or my corporation, to perform any requirements which may be necessary to procure the permit or authorization indicated above. I understand that knowingly making any false statement or representation in this application is a violation of Section 373.430, F.S.~~,~~ and 18 U.S.C. Section 1001.

_____ _____

Typed/Printed Name of Applicant Signature of Applicant Date

(Corporate Title if applicable)

Section E: Supplemental Information Required for Works or Other Activities Involving a Stormwater Management System
(Other Than a Single-Family Project)

Instructions: The information listed in the checklists below represents the level of information that is usually required to evaluate an application. Information can be provided within reports, plans, and documents. The level of information required for a specific project will vary depending on the nature and location of the site and the activity proposed. Conceptual approvals generally do not require the same level of detail as a construction permit. However, providing a greater level of detail will reduce the need to submit additional information at a later date. If an item does not apply to your project, proceed to the next item. The supplemental information required by this section is in addition to the information required by Section A of the application.

Part 1: Stormwater Management System Summary

Provide drainage calculations, signed and sealed by an appropriate registered professional, and supporting documentation demonstrating that the proposed project meets the conditions for issuance under 62-330.301(1)(a),(b),(c),(e), F.A.C. The drainage calculations should include, but not necessarily be limited to, the following:

1. General Site Information:

   a. ☒ Provide pre-development and post-development drainage map(s), as appropriate, that include drainage patterns and basin boundaries with acreage served by each hydraulically separate system, showing the direction of flows, including any off-site runoff being routed through or around the system; topographic information; and connections between wetlands and other surface waters. **See Hydrology Report in Appendix D.**

   b. ☒ Provide the results of any percolation tests, where appropriate, and soil borings that are representative of the actual site conditions. Identify the wet season high water table elevations, soil profiles, and hydraulic conductivity. Include dates, datum, and methods used to determine these soil parameters. **See Hydrology Report in Appendix D.**

   c. ☒ Identify the onsite hydrologic soil classification (e.g. Type A, B/D, D). Reference the source, such as the USDA/NRCS Soil Survey, used in estimating the onsite hydrologic soil classification. Provide maps, as appropriate, with the project limits delineated. **See Hydrology Report in Appendix D.**

   d. ☒ Identify the seasonal high water or mean high tide elevation for receiving waters/wetlands into which runoff will be discharged. Include dates, datum, and methods used to determine these elevations. **See Hydrology Report in Appendix D.**

   e. ☒ Identify the name of each receiving waterbody to which the proposed stormwater management system will discharge: **Most of the site drains northeast into Lake Apthorpe, while a smaller portion of the site drains to a small, unnamed lake in the northwest corner of the site.**

   f. ☒ Indicate the existing land use and land cover. **Citrus Groves**

   g. ☒ Provide the acreage and percentages of the total project, of the following:
      1. Impervious surfaces (excluding buildings, wetlands, and other surface waters);

2. Buildings;
3. Pervious surfaces (green areas not including wetlands);
4. Lakes, canals, retention areas, other open water areas; and
5. Wetlands (Please compare to Section C to ensure consistency in wetland acreages).
See Hydrology Report in Appendix D.

h. ☒ Provide the location and description of any nearby existing offsite features (such as wetlands and other surface waters, stormwater management ponds, and buildings or other structures) which might be affected by or affect the proposed construction or development.
See Hydrology Report in Appendix D.

2. Water Quality Analysis:

a. ☒ Provide a description of the proposed stormwater treatment methodology that addresses the type of treatment, pollution abatement volumes, and recovery analysis.
See Hydrology Report in Appendix D.

b. ☒ Is the receiving waterbody known to be impaired and/or have an established Total Maximum Daily Load (TMDL) or Basin Management Action Plan (BMAP)? If so, please provide specific descriptions of all water quality parameters for which the waterbody is known to be impaired. For more information about water quality, impaired waters, and to determine whether a TMDL has been adopted in your project area, refer to: https://floridadep.gov/dear/water-quality-evaluation-tmdl/content/final-tmdl-reports. To determine whether a BMAP exists, or is being developed in your project area, refer to: https://floridadep.gov/dear/water-quality-restoration/content/basin-management-action-plans-bmaps.

☒ yes ☐ no ☐ don't know

If yes, provide calculations demonstrating that the proposed project will not contribute to violations of state water quality standards in accordance with the applicable Applicant's Handbook, Vol. II. **Project located in WBID 1932 Grassy Creek. Parameter: Dissolved Oxygen. Status: Study List. Project will remove existing citrus groves from the site and replace with solar facility, decreasing the nutrient loads which can impact DO.**

c. ☒ Does the project have a direct discharge to ~~a~~ Class I or II waters; Outstanding Florida Waters (OFW); or Class III waters, which are approved, conditionally approved, restricted, or conditionally restricted for shellfish harvesting? *To determine whether your project is within or will discharge to an OFW, or for more information about OFWs in general, refer to: https://floridadep.gov/dear/water-quality-standards/content/outstanding-florida-waters.*

☐ yes ☒ no ☐ don't know

If yes, additional treatment in accordance with the applicable Applicant's Handbook, Vol. II, may be required.

d. ☒ Provide construction plans and calculations that address the required treatment volume and recovery, as well as stage-storage and design elevations, which demonstrate compliance with the appropriate water quality treatment criteria in the applicable Applicant's Handbook, Vol. II.
See Hydrology Report in Appendix D.

e. ☒ Provide a description of the engineering methodology, assumptions, and references for the parameters listed above and a copy of all ~~such~~ computations, engineering plans, and specifications used to analyze the system. If a computer program is used for the analysis, provide the name of the program, a description of the program, input and output data, and justification for model selection.
See Hydrology Report in Appendix D.

3. Water Quantity Analysis:

Provide calculations and documentations demonstrating that the project, as proposed, meets the applicable design criteria as indicated in the applicable Applicant's Handbook, Vol. II. Typically, the information would include, at a minimum, but ~~is~~ not necessarily limited to, the following: **See Hydrology Report in Appendix D.**

a. ☒ For projects requiring pre-development analysis, provide an analysis of the pre-development peak rate of discharge and–/–or volume of runoff~~,~~ for all design storm events. Account for all onsite depressional storage and offsite contributing area. Please refer to the applicable Applicant's Handbook, Vol. II for the design storm event(s) that apply to your project.

b. ☒ Provide an analysis of the post-development peak rate of discharge and–/–or volume of runoff for all applicable design storm events. Account for all onsite storage and offsite contributing area. Please refer to the applicable Applicant's Handbook, Vol. II for the design storm event(s) and criteria that apply to your project.

These analyses should include:

1. ☒ Runoff characteristics, including area, runoff curve number or runoff coefficient, and time of concentration for each drainage basin in the pre-development and post-development condition;
2. ☒ Design storms used including rainfall depth, duration, frequency, and distribution;
3. ☒ Runoff hydrograph(s) for each drainage basin~~,~~ for all required design storm event(s);
4. ☒ Stage-storage computations for any area, such as a reservoir, closed basin, detention area, or channel, used in storage routing;
5. ☒ Stage-discharge computations for any storage areas at a selected control point, such as control structure or natural restriction;
6. ☒ Flood routings through on-site conveyance and storage areas;
7. ☒ Water surface profiles in the primary drainage system for each required design storm event(s);
8. ☒ Runoff peak rates and volumes discharged from the site for each required design storm event(s);
9. ☒ Design tailwater elevation(s) for each storm event at all points of discharge (include source or method of estimate); and
10. ☐ Pump specifications and operating curves for range of possible operating conditions (if used in system). **N/A**

c. ☒ Provide a description of the engineering methodology, assumptions, and references for the parameters listed above, and a copy of all such computations, engineering plans, and specifications used to analyze the system. If a computer program is used for the analysis, provide the name of the program, input and output data, justification for model selection, and, if necessary, a description of the program. **See Hydrology Report in Appendix D.**

4. Floodplain Analysis (where applicable).

a. ☒ If the project is in a known floodplain of a stream or other water course, identify the appropriate floodplain boundary and approximate flooding elevations of any lake, stream, or other watercourse located on or adjacent to the site. **See Hydrology Report in Appendix D.**

b. ☐ For traversing works, in accordance with the applicable Applicant's Handbook, Vol. II, provide:

1. ☐ Hydraulic calculations for all proposed traversing works; **N/A** and
2. ☐ Water surface profiles showing upstream impact of traversing works. **N/A**

c. ☐ For impacts to regulated floodplains, in accordance with the applicable Applicant's Handbook, Vol. II, provide:

1. ☐ Location and volume of encroachment within regulated floodplain(s); **N/A** and
2. ☐ Plans and calculations for compensating floodplain storage, if necessary, and calculations required for determining minimum building and road flood elevations. **N/A**

Part 2: Construction Plans

1. Provide clear, construction level detailed plans for the system. The plans must be signed and sealed by an appropriate registered professional as required by law. These plans should include cumulative information from all applicable sections, as well as the following:

See Construction Plans in Appendix B for items requested below.

a. ☒ Project area boundary and total land area (as defined in A.H. Vol. I, subsection 2.0(a)(107), including distances and orientation from roads or other landmarks.

b. ☒ Existing topography extending at least 100 feet off the project area. All topography shall include location and description of benchmarks, reference to NGVD 1929 or NAVD 1988 along with the conversion factor.

c. ☒ Proposed site plan with acreage, including the following:
   1. ☒ plan view of proposed development, including impervious surfaces and water management areas;
   2. ☒ land cover and natural communities*;
   3. ☒ wetlands and other surface waters*;
   4. ☒ undisturbed uplands*;
   5. ☒ aquatic communities*;
   6. ☒ proposed buffers*;
   7. ☐ proposed impacts to wetlands and other surface waters, and any proposed connections/outfalls to other surface waters or wetlands, (if applicable); **N/A** and
   8. ☐ onsite wetland mitigation areas*. **N/A**
   9. ☐ For phased projects, provide a master development plan clearly delineating the limits of each phase of construction. **N/A**

   *Information should reflect that provided in Section C.

d. ☒ Paving, Grading, and Drainage Information, which includes, but is not necessarily limited to, the following:
   1. ☒ Existing topography;
   2. ☒ Boundaries of wetlands and other surface waters and upland buffers (see Section C);
   3. ☒ Plan view of proposed development;
   4. ☒ Proposed elevations and/or profiles, including:
      a) ☒ roadway, parking, and pavement grades;
      b) ☐ floor slabs, walkways, and other paved surfaces; **N/A**
      c) ☐ earthwork grades for pervious landscaped areas; **N/A** and
      d) ☒ perimeter site grading, tying back into existing grades.
   5. ☒ Location of all water management areas, including elevations, dimensions, side slopes, and design water depths;
   6. ☒ Location, size, and invert elevations of existing and proposed stormwater conveyance systems;
   7. ☒ Vegetative cover plan for all on-site and off-site earth surfaces disturbed by construction; and
   8. ☒ Rights-of-way and easements for the system, including all on-site and off-site areas to be reserved for water management purposes (including access), and rights-of-way and easements for the existing drainage system, if any.

e. ☒ Stormwater detail information, including but not necessarily limited to, the following:
   1. ☒ Cross section of all stormwater management areas, including elevations, dimensions, side slopes, and proposed stabilization measures (with location of the cross section(s) shown on the corresponding plan view);
   2. ☐ Detail of all proposed control structures, including elevations, dimensions, and skimmer, where applicable; and
   3. ☒ Details of proposed stormwater management systems, such as underdrains, exfiltration trenches, vaults, and other proposed Best Management Practices (BMPs).

f. ☒ Location and description of any nearby existing offsite features (such as wetland and other surface waters, stormwater management ponds, and building or other structures) which might be affected by or affect the proposed construction or development.

Part 3: Construction Schedule and Techniques

Provide a construction schedule, and a description of construction techniques, sequencing, and equipment. This information should include, as applicable, the following.
See Construction Plans in Appendix B.

a. ☒ Access and staging of equipment;

b. ☒ Location and details of the erosion, sediment, and turbidity control measures to be implemented during each phase of construction and all permanent control measures to be implemented in post-development conditions.

c. ☐ The location of disposal site(s) for any excavated material, including temporary and permanent disposal sites.

d. ☒ A demolition plan for any existing structures to be removed.

e. ☐ Dewatering plan details. If dewatering is required, detail the dewatering proposal including the methods that are proposed to contain the discharge, methods of isolating dewatering areas, and indicate the period dewatering structures will be in place.

f. ☐ Methods for transporting equipment and materials to and from the work site. If barges are required for access, provide the low water depths and draft of the fully loaded barge **N/A**;

Part 4: Operation and Maintenance and Legal Documentation:

a. ☒ Describe the overall maintenance and operation schedule for the proposed system. **EDF Renewables Distributed Solutions (EDF) will provide overall operation and maintenance of the site and drainage system. Stormwater system will be visually inspected every 6-months (+/-) and following major storm events.**

b. ☒ Identify the entity (or entities) that will be responsible for operating and maintaining the system (or parts of the system) to demonstrate that the entity (or entities) meet(s) the requirements of section 12.3 of the Applicant's Handbook, Vol. I. **EDF will be the responsible party.**

1. ☐ If different from the permittee, provide a draft document enumerating the enforceable affirmative obligations on the entity to properly operate and maintain the system for its expected life and documentation of the entity's financial responsibility for long-term maintenance. **N/A**
2. ☐ If the proposed operation and maintenance entity is not a property owner's association, provide proof of the existence of an entity or the future acceptance of the system by an entity which will operate and maintain the system. **N/A**

c. ☐ Provide drafts of all proposed conservation easements, stormwater management system easements, draft property owner's association documents, and plats for the property containing the proposed system. **N/A**

d. ☐ Provide legal reservations for access to the treatment system for maintenance and operation by future maintenance entities for subdivided projects. **N/A**

e. ☐ Provide indication of how water and wastewater service will be supplied. **N/A**

f. ☒ Provide a copy of the boundary survey and/or legal description and acreage of the total land area of contiguous property owned/controlled by the applicant. **See Appendix H-Property Boundary Survey**

g. ☐ If any associated land agreements are required to implement the proposed activities, such as flowage easements across lands not owned by the applicant, include such documentation. If negotiations are underway, but not yet concluded, regarding such land use agreements, please indicate that and provide an anticipated date for providing that documentation. A permit cannot be issued for an activity to use lands that are not owned by the applicant or for which the applicant does not hold a sufficient real property interest to use those lands. **N/A**

Part 5: Water Use

a. ☒ Describe how irrigation will be provided to the project. Will the surface water system be used for water supply, including landscape irrigation, or recreation? **Irrigation for planted buffer areas to be determined. Surface water systems will not be used for irrigation.**

b. ☒ If a Consumptive Use or Water Use permit has been issued for the project, state the permit number: **6162.11**

c. ☐ If a Consumptive Use or Water Use permit has not been issued for the project, indicate if such a permit will be required. ☐ yes ☐ no ☐ don't know **N/A**
If yes, please indicate when the application for a permit will be submitted:

d. ☒ Indicate how any existing wells located within the project site will be utilized or abandoned. **Existing wells onsite in developed areas to be capped and abandoned.**

Part 6: Special Basin Information

a. Is your project within a special basin as described in the applicable Applicant's Handbook, Vol. II?

☐ yes ☒ no ☐ don't know

b. If yes, please demonstrate that the project will meet the applicable special basin criteria.

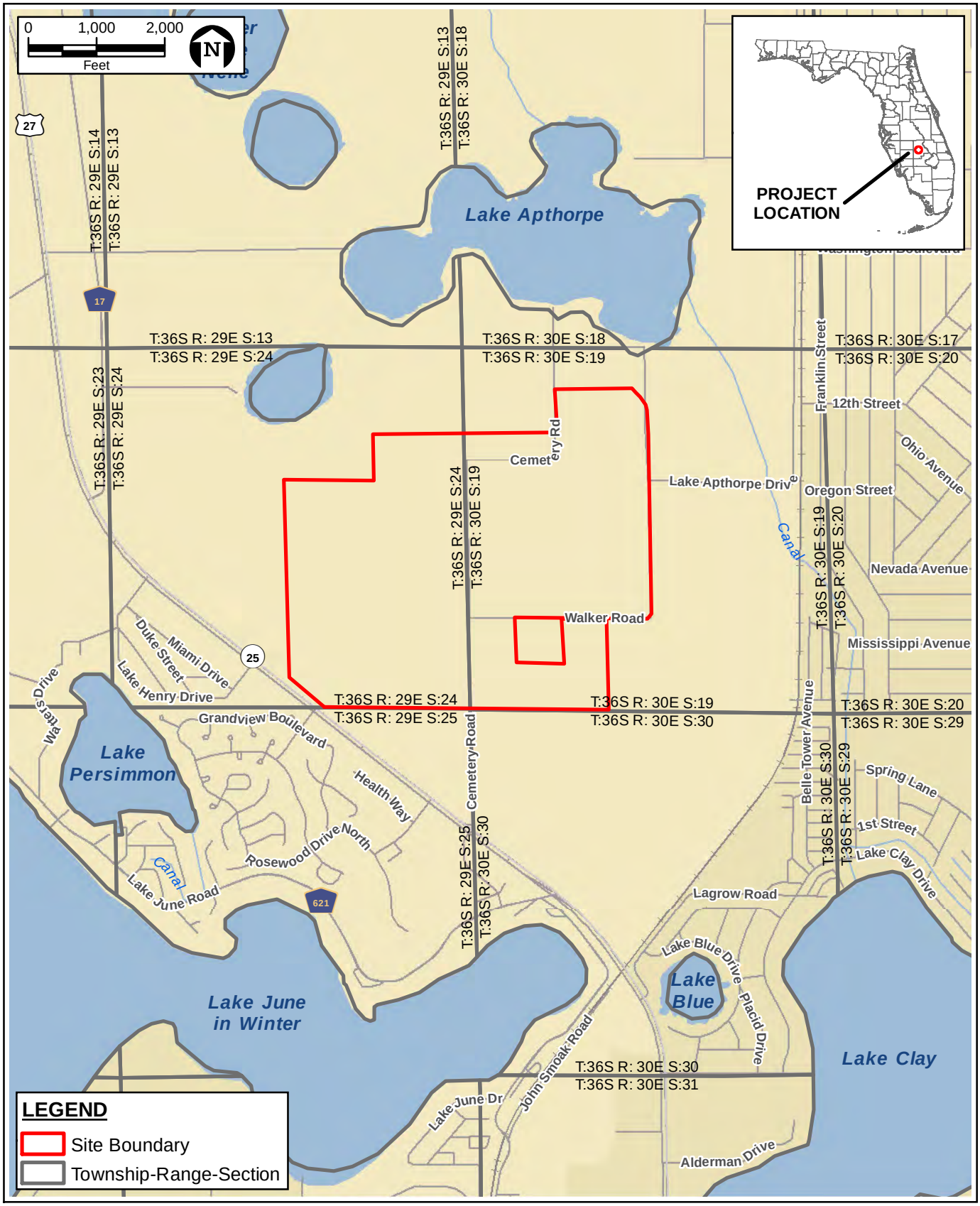

FIGURE 1.
SITE LOCATION MAP
LAKE PLACID SOLAR
HIGHLANDS COUNTY, FLORIDA

Sources: USGS, 2018; ESRI, 2018; ECT, 2018.

ECT Environmental Consulting & Technology, Inc.

LAKE PLACID SOLAR

PREPARED FOR

9175 Guilford Road, Suite 202
Columbia, Maryland 21046
Tel: (802) 359-6521 E-mail: thomas.payne@edf-re.com
Contact: Thomas Payne, Sr. Project Manager

BY

Environmental Consulting & Technology, Inc.

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New Smyrna Beach, Florida 32169
Tel: (386) 427-0694 Fax: (386) 427-0889
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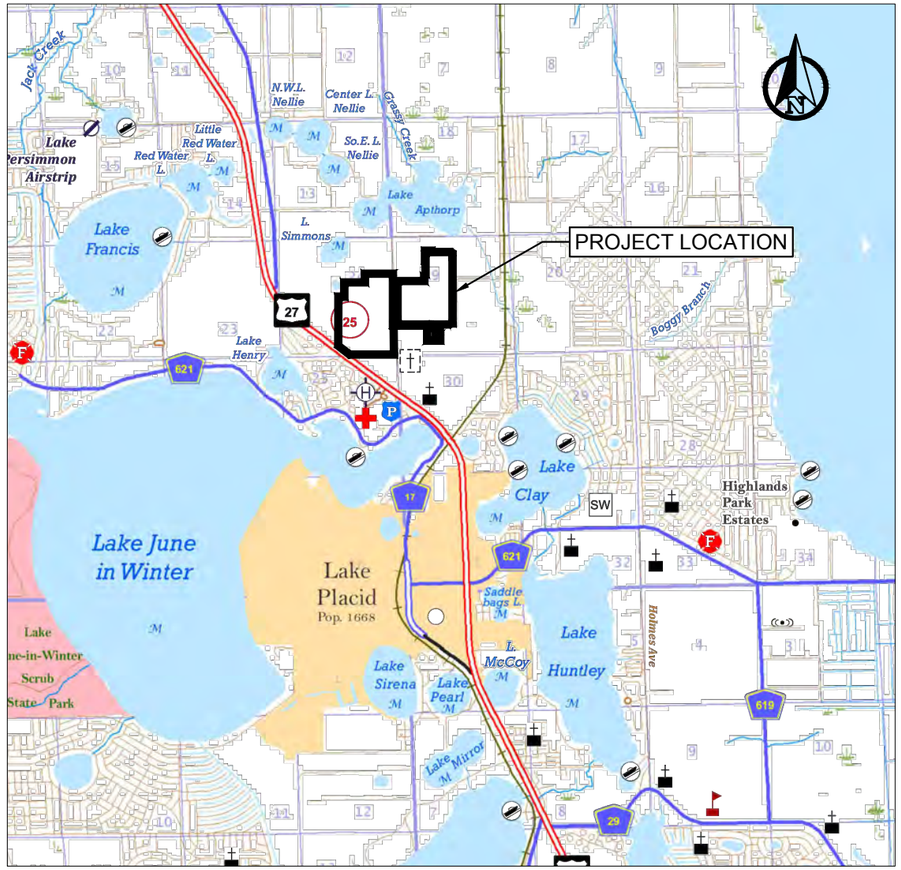
http://www.ectinc.com

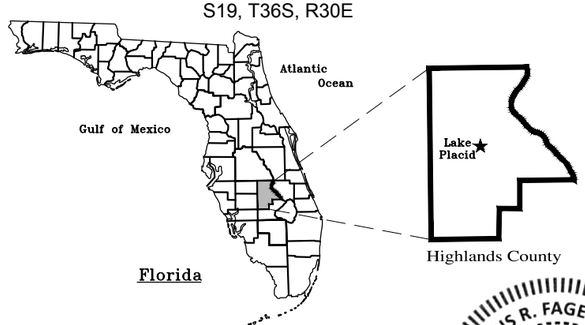
PERMIT SET
DECEMBER 2018

INDEX OF DRAWINGS



PROJECT LOCATION MAP

HIGHLANDS COUNTY, FLORIDA
S24, T36S, R29E
S19, T36S, R30E



CHRIS R. FAGERSTROM, LICENSE No. 63045 STATE OF FLORIDA PROFESSIONAL ENGINEER

CHRIS R. FAGERSTROM, P.E.
FLORIDA P.E. No. 63045

NOT APPROVED FOR CONSTRUCTION
UNLESS SIGNED AND SEALED BY ENGINEER

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Dec 10, 2018 - 11:56am by kgruber

GENERAL CONSTRUCTION NOTES

1. ALL WORK SHALL BE IN ACCORDANCE WITH THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION PERMIT, THE ARMY CORPS OF ENGINEERS PERMIT AND ANY SPECIFIC INSTRUCTIONS. THE CONTRACTOR SHALL NOTIFY THE OWNER OF ANY CONFLICTS BETWEEN THE CONSTRUCTION DRAWINGS AND THE REGULATORY AGENCY CRITERIA.
2. THE CONTRACTOR SHALL HAVE AT LEAST ONE SET OF APPROVED CONSTRUCTION DRAWINGS, SPECIFICATIONS, ENVIRONMENTAL RESOURCE PERMIT, AND STORMWATER POLLUTION PREVENTION PLAN AT THE SITE AT ALL TIMES.
3. BEFORE BEGINNING WORK, THE CONTRACTOR WILL DESIGNATE A PROJECT SUPERINTENDENT FAMILIAR WITH THE TYPE OF WORK SHOWN ON THE CONSTRUCTION DRAWINGS. THE SUPERINTENDENT SHALL MAINTAIN PROGRESS REPORTS AND PROVIDE THESE TO THE OWNER OR THE OWNER'S DESIGNATED REPRESENTATIVE ON A SPECIFIED BASIS.
4. ALL WORK SHALL BE PERFORMED BY A FLORIDA LICENSED CONTRACTOR AND FLORIDA LICENSED SUBCONTRACTORS.
5. THE ENGINEER WILL SECURE A ERP PERMIT, OTHER PERMITS MAY BE REQUIRED. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ANY ADDITIONAL CONSTRUCTION RELATED PERMITS.
6. THE CONTRACTOR SHALL NOTIFY THE OWNER A MINIMUM OF 24 HOURS BEFORE BEGINNING WORK, AND A MINIMUM OF 24 HOURS BEFORE PERFORMING TESTS.
7. ALTHOUGH MEASUREMENTS ARE SHOWN IN THE DRAWINGS, THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING ALL MATERIAL QUANTITIES IN ACCORDANCE TO THE CONTRACT DOCUMENTS.
8. ANY DEVIATIONS FROM THE CONSTRUCTION DRAWINGS MUST BE APPROVED BY THE OWNER PRIOR TO CONSTRUCTION.
9. ANY PUBLIC OR PRIVATE PROPERTY DISTURBED DURING CONSTRUCTION SHALL BE RESTORED BY THE CONTRACTOR TO ITS ORIGINAL CONDITION, UNLESS OTHERWISE NOTED ON THE PLANS. THE COST OF RESTORATION SHALL BE INCLUDED IN THE BID PRICE.
10. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING ALL NEW OR RESTORED VEGETATION UNTIL ACCEPTANCE OF THE JOB BY THE OWNER.
11. THE CONTRACTOR SHALL DEVELOP A MAINTENANCE OF TRAFFIC PLAN. THE PLAN SHALL MANAGE ON SITE TRAFFIC AND ALL INGRESS AND EGRESS TRAFFIC INCLUDING ANY OFFSITE CONTROLS.
12. THE CONTRACTOR SHALL PROVIDE CLEARING AND GRUBBING OF THE ENTIRE RIGHT-OF-WAY. ALL WASTE MATERIALS RESULTING FROM CLEARING, GRUBBING OR CONSTRUCTION ACTIVITIES SHALL BE DISPOSED OF AS DIRECTED BY THE APPROPRIATE LOCAL PUBLIC AGENCY. THE COST OF DISPOSAL SHALL BE INCLUDED AS PART OF THE BID PRICE.
13. CONTRACTOR SHALL PROVIDE TO THE OWNER A CERTIFIED "AS-BUILT" SURVEY PERFORMED BY A REGISTERED PROFESSIONAL SURVEYOR FOR THE ENTIRE PROJECT AREA. CONTRACTOR SHALL OBTAIN BEFORE AND AFTER TOP OF ROAD ELEVATIONS AT MAXIMUM 50' O.C. ALONG THE CENTER LINE OF THE ROAD. CONTRACTOR TO PROVIDE THREE (3) SIGNED/SEALED AS-BUILT SURVEYS AND ELECTRONIC COPY IN AUTOCAD FORMAT AT THE END OF THE PROJECT SHOWING THE LOCATION, ELEVATION AT CENTER LINE AND AREA (IN SF) OF EACH IMPROVEMENT. FINAL ACCEPTANCE SHALL NOT BE GRANTED UNTIL THE AS-BUILTS ARE SUBMITTED AND REVIEWED BY THE OWNER.
14. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO BE FAMILIAR WITH THE OSHA SAFETY STANDARDS AND TO ABIDE BY THEM AS COVERED UNDER THE FLORIDA TRENCH SAFETY ACT.
15. UTILIZATION OF LOW GROUND PRESSURE EQUIPMENT WILL BE REQUIRED. HIGH FLOTATION TIRES, RUBBERIZED TRACT EQUIPMENT, OR WETLAND MATS WILL BE USED IN ALL WETLANDS OR ANY AREAS WITH STANDING WATER AT THE TIME OF CONSTRUCTION.
16. CONTRACTOR SHALL MAINTAIN ALL WATER FLOW THROUGH THE PROJECT AREA WITHOUT ADVERSELY AFFECTING UPSTREAM AND DOWNSTREAM FLOWS AND STAGES.
17. PLACEMENT OF ALL ROADWAY EMBANKMENT AND BACKFIELD MATERIAL AND THEIR COMPACTION SHALL BE IN ACCORDANCE WITH THE FDOT STANDARD SPECIFICATION 120. FINISHED ROAD ELEVATIONS IN WETLAND AREAS SHALL BE EXISTING GRADES.
18. SILT FENCE AND TURBIDITY BOOMS TO BE INSTALLED AND MAINTAINED BY THE CONTRACTOR. CONTRACTOR SHALL NOT START WORK UNTIL EROSION PROTECTION IS INSTALLED AND COMPLIANCE WITH EROSION AND SEDIMENT CONTROL PLAN IS VERIFIED.
19. SILT FENCE SHALL BE TYPE III AND SHALL MEET FDOT STANDARD SPECIFICATIONS, AS-SHOWN ON THE PLAN. SILT FENCE DESIGNATED "STAKED" SHALL BE AER-FLO TOUGH GUY STAKED TURBIDITY BARRIER (YELLOW) AND SHALL MEET MANUFACTURES' MATERIAL AND INSTALLATION SPECIFICATION, AS SHOWN ON PLAN. TYPE SHOWN ON PLANS SHALL BE CONFIRMED BY REPRESENTATIVE PRIOR TO INSTALLATION.
20. THE CONTRACTOR SHALL SUBMIT A SIGNED AND SEALED STRUCTURAL DESIGN PACKAGE FOR ANY PROPOSED BRIDGE. THE PACKAGE SHALL DEMONSTRATE THAT THE BRIDGE IS CAPABLE OF SUPPORTING THE LOADING FROM THE HEAVIEST PIECE OF EQUIPMENT USED ON THE PROJECT.

GRADING AND STORMWATER MANAGEMENT SYSTEM NOTES

1. SHOP DRAWINGS AND DESIGN CALCULATIONS FOR EACH PRECAST STRUCTURE SHALL BE SUBMITTED TO THE ENGINEER BY THE CONTRACTOR FOR THE ENGINEER'S REVIEW PRIOR TO PURCHASE. THE CONTRACTOR SHALL SUBMIT THE SIGNED AND SEALED DESIGN CALCULATIONS AND DRAWINGS REFERENCING STATEMENT OF RESPONSIBILITY PER FLORIDA ADMINISTRATIVE CODE RULE No. 21H-19.001.
2. IF STRUCTURES ARE FABRICATED BEFORE THE ENGINEER HAS APPROVED THE SHOP DRAWINGS IT SHALL BE AT THE SOLE RISK OF THE CONTRACTOR. NO STRUCTURE WHICH DOES NOT CONFORM TO THE PLANS AND APPROVED SHOP DRAWINGS SHALL BE INSTALLED
3. ALL CONSTRUCTION TO BE IN ACCORDANCE WITH THE LATEST STANDARDS AND REQUIREMENTS OF THE SWPPP.
4. THE CONTRACTOR SHALL ABIDE BY THE EROSION AND SEDIMENT CONTROL PLAN /SWPPP APPROVED FOR THE PROJECT UNLESS OTHERWISE APPROVED BY THE ENGINEER. THE EROSION AND SEDIMENT CONTROL MEASURES SHOWN ON THE CONSTRUCTION DRAWING AND THE SWPPP SHALL BE CONSIDER THE MINIMUM CONTROLS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ACTIVELY IDENTIFY EROSION AND SEDIMENT CONTROL ISSUES AND ADDRESS THEM IN AN APPROPRIATE MANNER.
5. MAXIMUM PERMISSIBLE SIDE SLOPE IS 2:1 (HORIZONTAL:VERTICAL) FOR ANY FINISHED GRADING UNLESS OTHERWISE INDICATED.
6. REINFORCED CONCRETE PIPE (RCP) SHALL BE INSTALLED PER REQUIREMENTS OF ASTM C-1479 AND TESTED PER REQUIREMENTS OF ASTM C-497.
7. CONTRACTOR SHALL BACKFILL OR PROTECT ALL TRENCHES AT THE END OF EACH DAY. NO TRENCH SHALL BE LEFT OPEN OR UNPROTECTED FOR LONG PERIODS OF TIME OR OVERNIGHT.
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY TEMPORARY CONTROLS STRUCTURES REQUIRED TO MAINTAIN SUITABLE AND SAFE WORKING CONDITIONS AT ALL TIMES.
9. THE CONTRACTOR SHALL STORE CONSTRUCTION EQUIPMENT AND MATERIALS IN AREAS APPROVED BY THE OWNER. SECURITY OF EQUIPMENT AND MATERIALS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
10. ALL DISTURBED UNPAVED UPLAND AREAS SHALL BE SEEDED UNLESS OTHERWISE NOTED ON THE PLANS OR IN THE SPECIFICATIONS.

UTILITY NOTES

1. CONTRACTOR SHALL COORDINATE DIRECTLY WITH EACH UTILITY OWNER IN REGARD TO THE LOCATIONS AND RELOCATION DETAILS AND SCHEDULES ASSOCIATED WITH THEIR FACILITIES.
2. THE CONTRACTOR SHALL VERIFY THE LOCATION OF THE UNDERGROUND UTILITIES BEFORE BEGINNING CONSTRUCTION, AND IS RESPONSIBLE FOR ANY DAMAGES THAT OCCUR DUE TO THE CONTRACTOR'S FAILURE TO PROPERLY LOCATE THESE UTILITIES. IT IS THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE VARIOUS UTILITY COMPANIES WHICH MAY HAVE BURIED OR AERIAL UTILITIES WITHIN OR NEAR THE CONSTRUCTION AREA A MINIMUM OF 72 HOURS BEFORE BEGINNING WORK.
3. LOCATIONS, ELEVATIONS, AND DIMENSIONS OF EXISTING UTILITIES, STRUCTURES AND OTHER FEATURES ARE SHOWN UTILIZING THE BEST INFORMATION AT THE TIME AND ARE NOT TO BE ASSUMED TO BE ABSOLUTELY CORRECT. THERE MAY BE OTHER IMPROVEMENTS, UTILITIES, ETC. WITHIN THE PROJECT AREA. THE CONTRACTOR SHALL VERIFY PRIOR TO CONSTRUCTION THE LOCATIONS, ELEVATIONS, AND DIMENSIONS OF ALL EXISTING UTILITIES, STRUCTURES AND OTHER FEATURES (SHOWN OR NOT SHOWN) AFFECTING THE PROPOSED WORK.
4. THE INTERRUPTION OF UTILITY SERVICES SHALL BE MINIMIZED BY THE CONTRACTOR. WHEN AN INTERRUPTION IS NECESSARY, THE CONTRACTOR SHALL NOTIFY THE ENGINEER, LOCAL UTILITY AND THE OWNER AT LEAST 7 DAYS IN ADVANCE. THE CONTRACTOR SHALL PERFORM UTILITY SERVICE WORK PER THE REQUIREMENTS OF THE AFFECTED UTILITY, AND THE COSTS OF UTILITY SERVICE WORK SHOULD BE INCLUDED IN THE CONTRACTORS BID PRICE.
5. CONTRACTOR SHALL HAND EXCAVATE WHEN CONSTRUCTION IS WITHIN 10 FEET OF EXISTING UTILITIES.
6. CONTRACTOR IS RESPONSIBLE FOR BRACING, SHORING, OR PROVIDING OTHER MEANS NECESSARY TO PROTECT AND SUPPORT ADJACENT UTILITIES EXPOSED OR UNEXPOSED DURING CONSTRUCTION.
7. THE CONTRACTOR SHALL VERIFY THAT ALL REQUIRED CLEARANCES CAN BE MET, AND IF ANY CANNOT BE MET, NOTIFY THE OWNER WITHIN 15 DAYS.
8. CONTRACTOR SHALL NOTIFY THE ENGINEER IN WRITING IMMEDIATELY WHEN CONFLICTS ARE DISCOVERED.

THE LOCATION(S) OF THE UTILITIES SHOWN IN THE PLANS ARE BASED UPON LIMITED INVESTIGATION TECHNIQUES AND SHOULD BE CONSIDERED APPROXIMATE ONLY AT THE POINT SHOWN. INTERPOLATIONS BETWEEN THESE POINTS HAVE NOT BEEN VERIFIED. UTILITIES SHALL REMAIN UNLESS OTHERWISE NOTED.

THE CONTRACTOR SHALL NOTIFY UTILITY OWNERS THROUGH SUNSHINE ONE CALL OF FLORIDA INC (1-800-432-4770) AND UTILITY OWNERS LISTED ON THE COVER 48 HOURS IN ADVANCE OF BEGINNING CONSTRUCTION ON THE JOB SITE.

LEGEND

(P) AT-GRADE ACCESS ROAD

(P) CONCRETE

(P) CONSTRUCTION LAYDOWN

(E) DIRT ROADS

(P) SOLAR PANELS

(P) SWALES

(P) SPOT ELEVATION — 28.0'

(E) SPOT ELEVATION — +28.0'

(P) PROJECT BOUNDARY

(P) DRAINAGE PIPE — SD —

MATCHLINE — MATCH LINE —

MATCHLINE — P/L — P/L —

PROPERTY LINE

(P) SILT FENCE

(P) FENCE

(P) STORM WATER FLOW

(P) MEDIUM VOLTAGE CABLE — MV — MV —

(P) REQUIRED SETBACKS

(P) PROPOSED EASEMENT — ESMT —

STANDARD ABBREVIATIONS

(P) – PROPOSED
(E) – EXISTING
INV – INVERT ELEVATION
SS – SANITARY SEWER
RW – REUSE WATER
EWM – EXISTING WATER MAIN
ERW – EXISTING REUSE WATER MAIN
WM – WATER MAIN
MV – MEDIUM VOLTAGE UNDERGROUND CABLE
CONC – CONCRETE
FM – FORCE MAIN
CB – CATCH BASIN
STP – STORM PIPE
TYP – TYPICAL
EL. – ELEVATION
T.C. – TOP OF CONCRETE
MES – MITERED END SECTION
M.E. – MATCH EXISTING

CALL 48 HOURS BEFORE YOU DIG
IT'S THE LAW!
1-800-432-4770
SUNSHINE STATE ONE CALL OF FLORIDA, INC.

ECT Environmental Consulting & Technology, Inc.
707 East Third Ave., New Smyrna Beach, FL 32169
Phone: (386) 427-0694 Fax: (386) 427-0889

LAKE PLACID SOLAR

NOTES & LEGEND

SCALE:	N/A
PROJECT NO.:	18-0487
PROJECT DATE:	12-2018

DESIGNED BY:	CRF & RJ
DRAWN BY:	KNG
CHECKED BY:	CRF & RJ
APPROVED BY:	CRF

REVISION:	DATE: XX-XX-XXXX
REVISION:	DATE: XX-XX-XXXX
REVISION:	DATE: XX-XX-XXXX
REVISION:	DATE: XX-XX-XXXX

G - 1

CHRIS R. FAGERSTROM LICENSE No. 63045 STATE OF FLORIDA PROFESSIONAL ENGINEER

Chris Fagerstrom, P.E. No. 63045
12-5-2018
Date

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Phone: (386) 427-0694 Fax: (386) 427-0889

LAKE PLACID SOLAR

EXISTING CONDITIONS & DEMOLITION PLAN

SCALE:	1" = 600' @ 11" x 17"
PROJECT NO.:	18-0487
PROJECT DATE:	12-2018

DESIGNED BY:	CRF
DRAWN BY:	KNG
CHECKED BY:	CRF & RJ
APPROVED BY:	CRF

0 150 300 600

REVISION:	DATE: XX-XX-XXXX
REVISION:	DATE: XX-XX-XXXX
REVISION:	DATE: XX-XX-XXXX
REVISION:	DATE: XX-XX-XXXX

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STATE OF FLORIDA PROFESSIONAL ENGINEER
CHRIS R. FAGERSTROM LICENSE No. 63045
12-5-2018

Chris Fagerstrom, P.E. No. 63045

Received Electronically December 10, 201 South District

LAKE SIMMONS

25' SETBACK FROM EDGE PROPERTY LINES

ABANDON EXISTING DIRT ROAD

PROJECT BOUNDARY

ALL EXISTING ORANGE GROVES WITHIN PROJECT PROPERTY TO BE CLEARED AND ROOT RAKED FOR CONSTRUCTION, INCLUDING REMOVAL OF ALL SURFACE DRIP IRRIGATION LINES

EXISTING OVERHEAD ELECTRIC LINES TO WITHIN PROJECT BOUNDARY TO BE RELOCATED OR REMOVED

ABANDON EXISTING DIRT ROADS

ABANDON EXISTING DIRT ROADS WITHIN PROJECT BOUNDARY

EXISTING WELLS TO BE CAPPED BY FARMER IN ACCORDANCE WITH WATER USE PERMIT, CONTRACTOR RESPONSIBLE FOR WELL HOUSE REMOVAL

25' SETBACK FROM EDGE PROPERTY LINES

PROJECT BOUNDARY

EXISTING WELLS TO BE CAPPED BY FARMER IN ACCORDANCE WITH WATER USE PERMIT, CONTRACTOR RESPONSIBLE FOR WELL HOUSE REMOVAL

ST. JOHNS STREET

25' SETBACKS FROM EDGE PROPERTY LINES

WALKER ROAD

PROJECT BOUNDARY

EXISTING OVERHEAD ELECTRIC LINES TO REMAIN

U.S. 27

ABANDON EXISTING DIRT ROADS WITHIN PROJECT BOUNDARY

25' SETBACK FROM EDGE PROPERTY LINES

80' SETBACK FROM U.S. 27 RIGHT-OF-WAY

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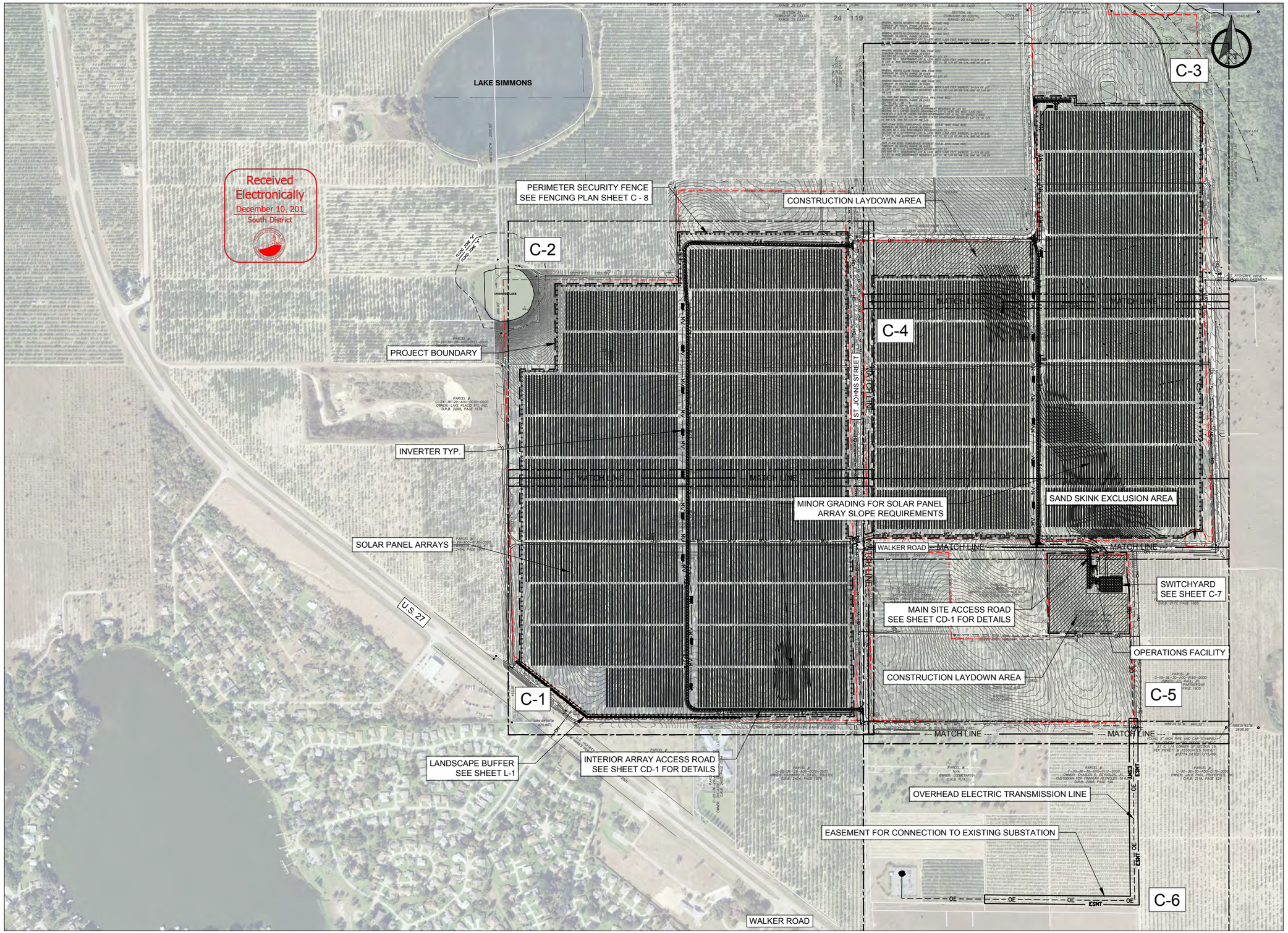

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Phone: (386) 427-0694 Fax: (386) 427-0889

LAKE PLACID SOLAR

OVERALL SITE PLAN

SCALE:	1" = 700' @ 11" x 17"
PROJECT NO.:	18-0487
PROJECT DATE:	12-2018

DESIGNED BY:	CRF
DRAWN BY:	KNG
CHECKED BY:	CRF & RJ
APPROVED BY:	CRF

0 175 350 700

REVISION:	DATE: XX-XX-XXXX
REVISION:	DATE: XX-XX-XXXX
REVISION:	DATE: XX-XX-XXXX
REVISION:	DATE: XX-XX-XXXX

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CHRIS R. FAGERSTROM LICENSE No. 63045 STATE OF FLORIDA PROFESSIONAL ENGINEER

Chris Fagerstrom, P.E. No. 63045

12-5-2018
Date

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SEE SHEET C - 2

SEE SHEET C - 4

SEE SHEET C - 5

(P) MEDIUM VOLTAGE UNDERGROUND CABLE

(P) ROADSIDE SWALE
SEE SHEET CD-1

(P) INTERIOR ARRAY ACCESS ROAD
SEE SHEET CD-1

(P) MEDIUM VOLTAGE UNDERGROUND CABLE
TRENCH UNDER ST. JOHNS STREET
SEE SHEET CD-3

(E) DIRT ROAD TO BE ABANDONED

(P) MEDIUM VOLTAGE UNDERGROUND CABLE

25' REQUIRED SETBACK FROM PROPERTY LINES

PROJECT BOUNDARY

(P) INVERTERS TYP.

(E) PUBLIC DIRT ROAD
CONTRACTOR TO MAINTAIN
AND RESTORE IF NECCESARY

(P) SOLAR PANEL ARRAYS TYP.

(P) MEDIUM VOLTAGE UNDERGROUND CABLE

80' REQUIRED SETBACK FROM U.S. 27 RIGHT OF WAY

(P) INTERIOR ARRAY ACCESS ROAD
SEE SHEET CD-1

(P) ACCESS GATE
SEE SHEET CD-2

(P) ROADSIDE SWALE
SEE SHEET CD-1

(P) 7' PERIMETER SECURITY FENCE
SEE SHEET CD-2

25' REQUIRED SETBACK FROM PROPERTY LINES

ST. JOHNS STREET

Received
Electronically
December 10, 201
South District

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Phone: (386) 427-0694 Fax: (386) 427-0889

LAKE PLACID SOLAR

GRADING & DRAINAGE PLAN

SCALE:	1" = 100'
PROJECT NO.:	18-0487
PROJECT DATE:	12-2018

DESIGNED BY:	CRF
DRAWN BY:	KNG
CHECKED BY:	KNG
APPROVED BY:	CRF

0 50 100 200

REVISION:	DATE:	XX-XX-XXXX
REVISION:	DATE:	XX-XX-XXXX
REVISION:	DATE:	XX-XX-XXXX
REVISION:	DATE:	XX-XX-XXXX

C - 1

CHRIS R. FAGERSTROM LICENSE No. 63045 STATE OF FLORIDA PROFESSIONAL ENGINEER

Chris Fagerstrom, P.E. No. 63045
12-5-2018
Date

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Electronically
December 10, 201
South District

PROJECT BOUNDARY

(P) 7' PERIMETER SECURITY FENCE

(P) INTERIOR ARRAY ACCESS ROAD
SEE SHEET CD-1

(P) ACCESS GATE
SEE SHEET CD-2

LAKE

PIPE

(P) INVERTERS TYP.

(P) SOLAR PANEL ARRAYS TYP.

SEE SHEET C - 3
MATCH LINE

(E) DIRT ACCESS ROAD

(P) MEDIUM VOLTAGE UNDERGROUND CABLE

25' REQUIRED OFFSET LINE FROM EXPANDED
ST. JOHN STREET RIGHT-OF-WAY

(P) ROADSIDE SWALE
SEE SHEET CD-1

(P) EXPANDED ST. JOHN STREET RIGHT-OF-WAY

(P) INTERIOR ARRAY ACCESS ROAD
SEE SHEET CD-1

(E) PUBLIC DIRT ROAD
CONTRACTOR TO MAINTAIN
AND RESTORE IF NECCESARY

SEE SHEET C - 4
MATCH LINE

MATCH LINE — MATCH LINE — MATCH LINE — MATCH LINE — MATCH LINE — MATCH LINE — MATCH LINE — MATCH LINE

SEE SHEET C - 1

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Phone: (386) 427-0694 Fax: (386) 427-0889

LAKE PLACID SOLAR

GRADING & DRAINAGE PLAN

SCALE:	1" = 100'
PROJECT NO.:	18-0487
PROJECT DATE:	12-2018

DESIGNED BY:	CRF
DRAWN BY:	KNG
CHECKED BY:	KNG
APPROVED BY:	CRF

0 50 100 200

REVISION:	1	DATE: XX-XX-XXXX
REVISION:	2	DATE: XX-XX-XXXX
REVISION:	3	DATE: XX-XX-XXXX
REVISION:	4	DATE: XX-XX-XXXX

C - 2

CHRIS R. FAGERSTROM
LICENSE
No. 63045
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

Chris Fagerstrom, P.E. No. 63045
12-5-2018
Date

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Dec 10, 2018 - 11:57am by kgruber

SW 1/4.

MINERAL RIGHTS DEED (O.R.B. 340, PAGE 531)
TOWNSHIP 36 SOUTH, RANGE 30 EAST:
SECTION 18 – U.S. GOVERNMENT RESURVEY LOT 27.
SECTION 19 – GOVERNMENT LOT 2, LESS WEST 1,320 FEET THEREOF; S–3/4 OF LOT 3; LOT 4; AND GOVERNMENT RESURVEY LOT 11; SE 1/4 OF NW 1/4, AND NE 1/4 OF SW 1/4.

MINERAL RIGHTS CLAIM (O.R.B. 498, PAGE 700)
TOWNSHIP 36 SOUTH, RANGE 30 EAST:
SECTION 18 – U.S. GOVERNMENT RESURVEY LOT 27.

MINERAL RIGHTS CLAIM (O.R.B. 498, PAGE 701)
TOWNSHIP 36 SOUTH, RANGE 30 EAST:
SECTION 19 – GOVERNMENT LOT 2, LESS WEST 1,320 FEET THEREOF; S–3/4 OF LOT 3; LOT 4; AND GOVERNMENT RESURVEY LOT 11; SE 1/4 OF NW 1/4, AND NE 1/4 OF SW 1/4.

OIL, GAS AND MINERAL LEASE (O.R.B. 664, PAGE 893)
TOWNSHIP 36 SOUTH, RANGE 29 EAST:
SECTION 24 – SE 1/4
TOWNSHIP 36 SOUTH, RANGE 30 EAST:
SECTION 18 – UNITED STATES GOVERNMENT RESURVEY OF LOT 27.
SECTION 19 – UNITED STATES GOVERNMENT LOT 2, LESS THE WEST 1,320 FEET THEREOF; S 3/4 OF UNITED STATES GOVERNMENT LOT 3; ALL OF UNITED STATES GOVERNMENT LOT 4; ALL OF UNITED STATES GOVERNMENT RESURVEY LOT 11; SE 1/4 OF NW 1/4, AND NE 1/4 OF SW 1/4.

QUIT CLAIM DEED, SUBSURFACE INTEREST (O.R.B. 1685, PAGE 825)
TOWNSHIP 36 SOUTH, RANGE 30 EAST:
SECTION 18 – U.S. GOVERNMENT RESURVEY LOT 27.
SECTION 19 – GOVERNMENT LOT 2, LESS WEST 1,320 FEET THEREOF; S–3/4 OF LOT 3; LOT 4; AND GOVERNMENT RESURVEY LOT 11; SE 1/4 OF NW 1/4, AND NE 1/4 OF SW 1/4.

QUIT CLAIM DEED, SUBSURFACE INTEREST (O.R.B. 2015, PAGE 785)
TOWNSHIP 36 SOUTH, RANGE 30 EAST:
SECTION 18 – U.S. GOVERNMENT RESURVEY LOT 27.
SECTION 19 – GOVERNMENT LOT 2, LESS WEST 1,320 FEET THEREOF; S–3/4 OF LOT 3; LOT 4; AND GOVERNMENT RESURVEY LOT 11; SE 1/4 OF NW 1/4, AND NE 1/4 OF SW 1/4.

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(P) ACCESS GATE SEE SHEET CD-2

(P) 7' PERIMETER SECURITY FENCE

(P) INTERIOR ARRAY ACCESS ROAD WITH TURN AROUND AREA SEE SHEET CD-1

(P) SOLAR PANEL ARRAYS TYP.

(P) MEDIUM VOLTAGE UNDERGROUND CABLE

(E) DIRT ACCESS ROAD

(E) PUBLIC DIRT ROAD CONTRACTOR TO MAINTAIN AND RESTORE IF NECCESARY

(P) ACCESS GATE SEE SHEET CD-2

(P) INVERTERS TYP.

(P) TEMPORARY LAYDOWN AREA SEE SHEET CD-1

(P) INTERIOR ARRAY ACCESS ROAD SEE SHEET CD-1

(P) ROADSIDE SWALE SEE SHEET CD-1

ST JOHN STREET (F.K.A. CEMETERY ROAD)
66' WIDE R/W PER O.R.B. 15, PAGE 215

SOUTH BOULEVARD
(O.R.B. 110, PAGE 365)

SEE SHEET C - 2

SEE SHEET C - 4

MATCH LINE

ECT Environmental Consulting & Technology, Inc.
707 East Third Ave., New Smyrna Beach, FL 32169
Phone: (386) 427-0694 Fax: (386) 427-0889

LAKE PLACID SOLAR

GRADING & DRAINAGE PLAN

SCALE:	1" = 100'
PROJECT NO.:	18-0487
PROJECT DATE:	12-2018

DESIGNED BY:	CRF
DRAWN BY:	KNG
CHECKED BY:	KNG
APPROVED BY:	CRF

0 50 100 200

REVISION:	DATE: XX-XX-XXXX
REVISION:	DATE: XX-XX-XXXX
REVISION:	DATE: XX-XX-XXXX
REVISION:	DATE: XX-XX-XXXX

C - 3

CHRIS R. FAGERSTROM LICENSE No. 63045 STATE OF FLORIDA PROFESSIONAL ENGINEER

Chris Fagerstrom, P.E. No. 63045
12-5-2018
Date

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SEE SHEET C - 3

SEE SHEET C - 2

SEE SHEET C - 1

SEE SHEET C - 5

MATCH LINE

(P) MEDIUM VOLTAGE UNDER GROUND CABLE

(E) DIRT ACCESS ROAD TO BE ABANDONED

(P) INVERTERS TYP.

(P) INTERIOR ARRAY ACCESS ROAD SEE SHEET CD-1

(P) SOLAR PANEL ARRAYS TYP.

(P) ROADSIDE SWALE SEE SHEET CD-1

(P) 7' PERIMETER SECURITY FENCE

SAND SKINK EXCLUSION AREA

(P) MEDIUM VOLTAGE UNDER GROUND CABLES FROM ARRAYS TO SWITCHYARD

(P) ACCESS GATE SEE SHEET CD-2

(P) MEDIUM VOLTAGE UNDERGROUND CABLES TRENCH UNDER WALKER ROAD SEE SHEET CD-3

TANK

PUMP HOUSE

TANK

WALKER ROAD 50' WIDE PER RESOLUTION O.R.B. 140, PAGE 305

30' ELECTRICAL EASEMENT O.R.B. 1987, PAGE 181

S89°26'55"E 6567.79'

Received Electronically December 10, 2018 South District

ECT Environmental Consulting & Technology, Inc.

707 East Third Ave., New Smyrna Beach, FL 32169
Phone: (386) 427-0694 Fax: (386) 427-0889

LAKE PLACID SOLAR

GRADING & DRAINAGE PLAN

SCALE:	1" = 100'
PROJECT NO.:	18-0487
PROJECT DATE:	12-2018

DESIGNED BY:	CRF
DRAWN BY:	KNG
CHECKED BY:	KNG
APPROVED BY:	CRF

0 50 100 200

REVISION:	DATE: XX-XX-XXXX
REVISION:	DATE: XX-XX-XXXX
REVISION:	DATE: XX-XX-XXXX
REVISION:	DATE: XX-XX-XXXX

C - 4

CHRIS R. FAGERSTROM LICENSE No. 63045 STATE OF FLORIDA PROFESSIONAL ENGINEER

Chris Fagerstrom, P.E. No. 63045

12-10-2018

Date

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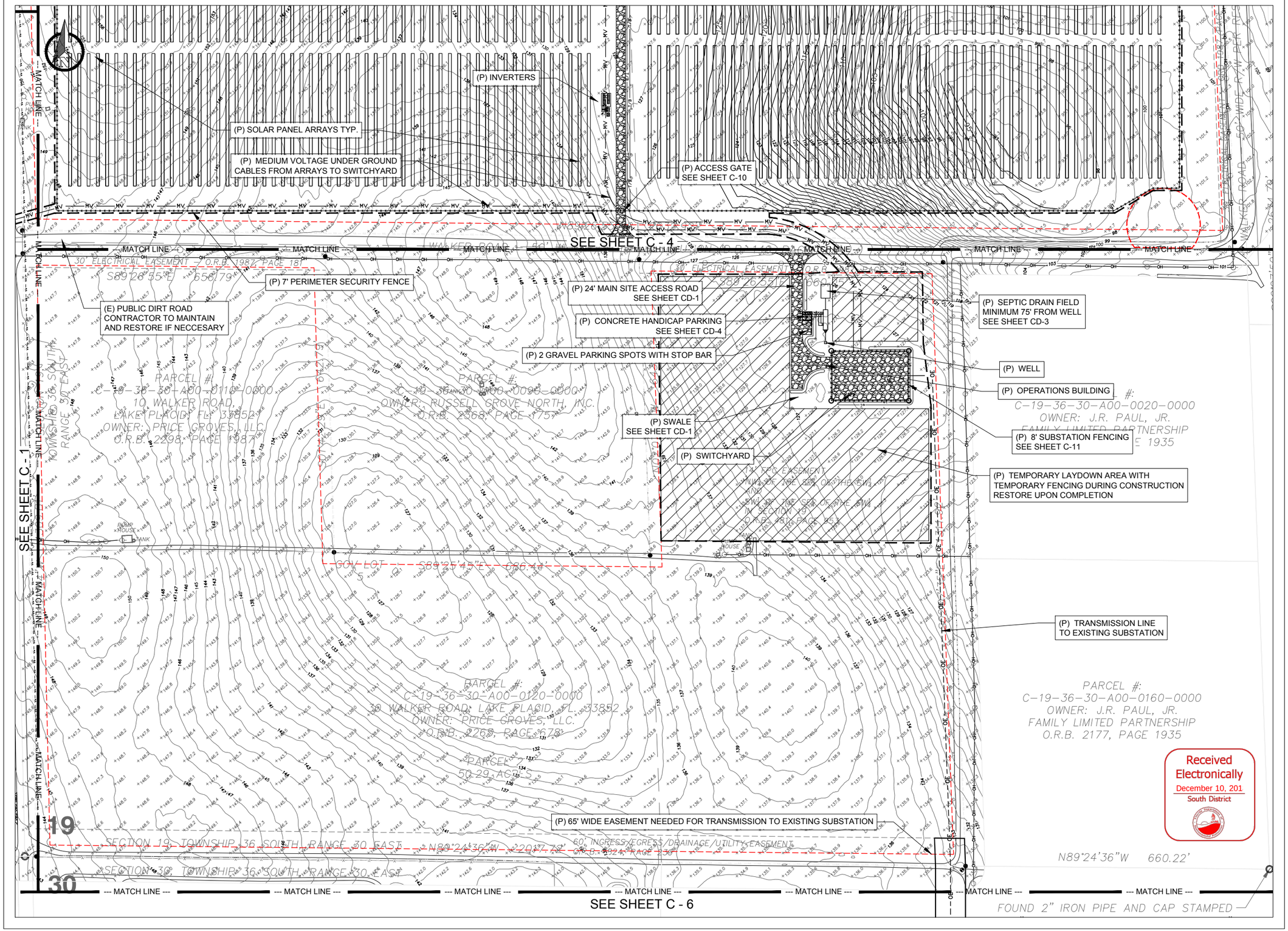

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707 East Third Ave., New Smyrna Beach, FL 32169
Phone: (386) 427-0694 Fax: (386) 427-0889

LAKE PLACID SOLAR

GRADING & DRAINAGE PLAN

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DESIGNED BY:	CRF
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0 50 100 200

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REVISION:	DATE: XX-XX-XXXX
REVISION:	DATE: XX-XX-XXXX
REVISION:	DATE: XX-XX-XXXX

C - 5

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CHRIS R. FAGERSTROM LICENSE No. 63045 STATE OF FLORIDA PROFESSIONAL ENGINEER

Chris Fagerstrom P.E. No. 63045
12-5-2018
Date

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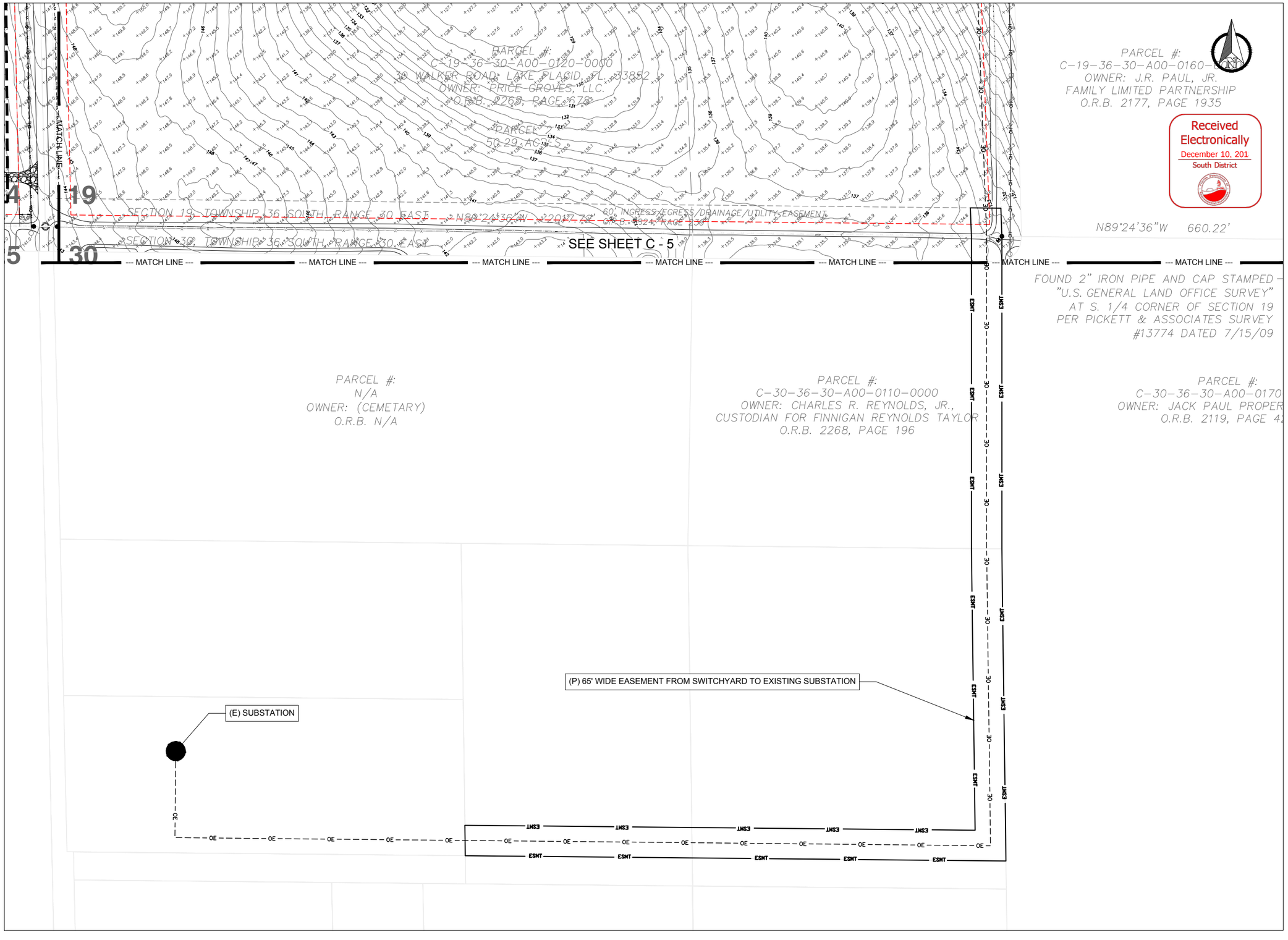

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Phone: (386) 427-0694 Fax: (386) 427-0889

LAKE PLACID SOLAR

GRADING & DRAINAGE PLAN

SCALE:	1" = 100'
PROJECT NO.:	18-0487
PROJECT DATE:	12-2018

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CHECKED BY:	KNG
APPROVED BY:	CRF

0 50 100 200

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REVISION:	⚠	DATE: XX-XX-XXXX
REVISION:	⚠	DATE: XX-XX-XXXX
REVISION:	⚠	DATE: XX-XX-XXXX

C - 6

CHRIS R. FAGERSTROM LICENSE No. 63045 STATE OF FLORIDA PROFESSIONAL ENGINEER

Chris Fagerstrom, P.E. No. 63045

12-5-2018
Date

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(P) MAIN SITE ACCESS ROAD
TO EXTEND 50' INSIDE PERIMETER FENCE
SEE SHEET CD-1

(P) AT-GRADE CONCRETE PARKING AREA & SIDEWALK
MINIMUM 6" THICK

(P) 2 - 9' X 18' GRAVEL PARKING SPACES WITH WHEEL STOP BAR

(P) MEDIUM VOLTAGE UNDERGROUND CABLE

(P) 20' X 30' SEPTIC DRAIN FIELD

(P) OPERATIONS BUILDING
10' X 44' OFFICE TRAILER WITH RESTROOM

(P) ADA COMPLIANT RAMP

(P) WELL FOR WATER SERVICE TO OPERATIONS BUILDING
75' MINIMUM DISTANCE FROM SEPTIC DRAIN FIELD

(P) SUBSTATION ACCESS GATE
SEE SHEET CD-3

(P) TREATMENT SWALES

(P) SUBSTATION FENCE
SEE SHEET C-11

PROJECT BOUNDARY

REQUIRED SETBACK FROM PROPERTY LINE

M.E.

20.0'

6.0'

127.5'

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707 East Third Ave., New Smyrna Beach, FL 32169
Phone: (386) 427-0694 Fax: (386) 427-0889

LAKE PLACID SOLAR

GRADING AND DRAINAGE PLAN

SCALE:	1" = 40' @ 11" x 17"
PROJECT NO.:	18-0487
PROJECT DATE:	12-2018

DESIGNED BY:	CRF
DRAWN BY:	KNG
CHECKED BY:	CRF & RJ
APPROVED BY:	CRF

0 10 20 40

REVISION:	1	DATE: XX-XX-XXXX
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C - 7

CHRIS R. FAGERSTROM LICENSE No. 63045 STATE OF FLORIDA PROFESSIONAL ENGINEER

Chris Fagerstrom, P.E. No. 63045
12-5-2018
Date

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LAKE SIMMONS

CORNER POST
N: 1,092,384
E: 538,420

CORNER POST
N: 1,092,329
E: 539,289

CORNER POST
N: 1,092,283
E: 539,359

CORNER POST
N: 1,092,384
E: 538,139

CORNER POST
N: 1,092,328
E: 538,420

CORNER POST
N: 1,091,953
E: 538,139

CORNER POST
N: 1,091,953
E: 538,157

(P) 7' PERIMETER FENCE ACCESS GATE

CORNER POST
N: 1,091,369
E: 535,468

CORNER POST
N: 1,091,369
E: 536,713

CORNER POST
N: 1,091,295
E: 538,106

(P) 7' PERIMETER FENCE ACCESS GATE

CORNER POST
N: 1,091,311
E: 538,159

CORNER POST
N: 1,090,981
E: 534,553

CORNER POST
N: 1,090,982
E: 535,477

UNNAMED LAKE

CORNER POST
N: 1,091,043
E: 536,922

CORNER POST
N: 1,091,042
E: 538,108

CORNER POST
N: 1,090,344
E: 534,289

CORNER POST
N: 1,090,343
E: 534,554

(P) 7' PERIMETER FENCE

(P) 7' PERIMETER FENCE ACCESS GATE

CORNER POST
N: 1,089,161
E: 539,301

CORNER POST
N: 1,089,112
E: 536,922

CORNER POST
N: 1,089,112
E: 539,217

CORNER POST
N: 1,089,094
E: 536,713

CORNER POST
N: 1,089,161
E: 539,359

CORNER POST
N: 1,089,094
E: 536,745

U.S. 27

(P) 8' SUBSTATION FENCE ACCESS GATE

(P) 8' SUBSTATION FENCE

CORNER POST
N: 1,088,169
E: 534,288

CORNER POST
N: 1,087,777
E: 534,788

(P) 7' PERIMETER FENCE ACCESS GATE

CORNER POST
N: 1,087,777
E: 536,756

FOUND 2" IRON PIPE AND CAP STAMPED "LCS GENERAL LAND OFFICE SURVEY" AT S. 1/4 CORNER OF SECTION 19 PER PICKETT & ASSOCIATES SURVEY.

ECT Environmental Consulting & Technology, Inc.

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LAKE PLACID SOLAR

SITE FENCING PLAN

SCALE:	1" = 600' @ 11" x 17"
PROJECT NO.:	18-0487
PROJECT DATE:	12-2018

DESIGNED BY:	CRF
DRAWN BY:	KNG
CHECKED BY:	CRF & RJ
APPROVED BY:	CRF

0 150 300 600

REVISION:	DATE: XX-XX-XXXX
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CHRIS R. FAGERSTROM LICENSE No. 63045 STATE OF FLORIDA PROFESSIONAL ENGINEER 12-5-2018

Chris Fagerstrom, P.E. No. 63045

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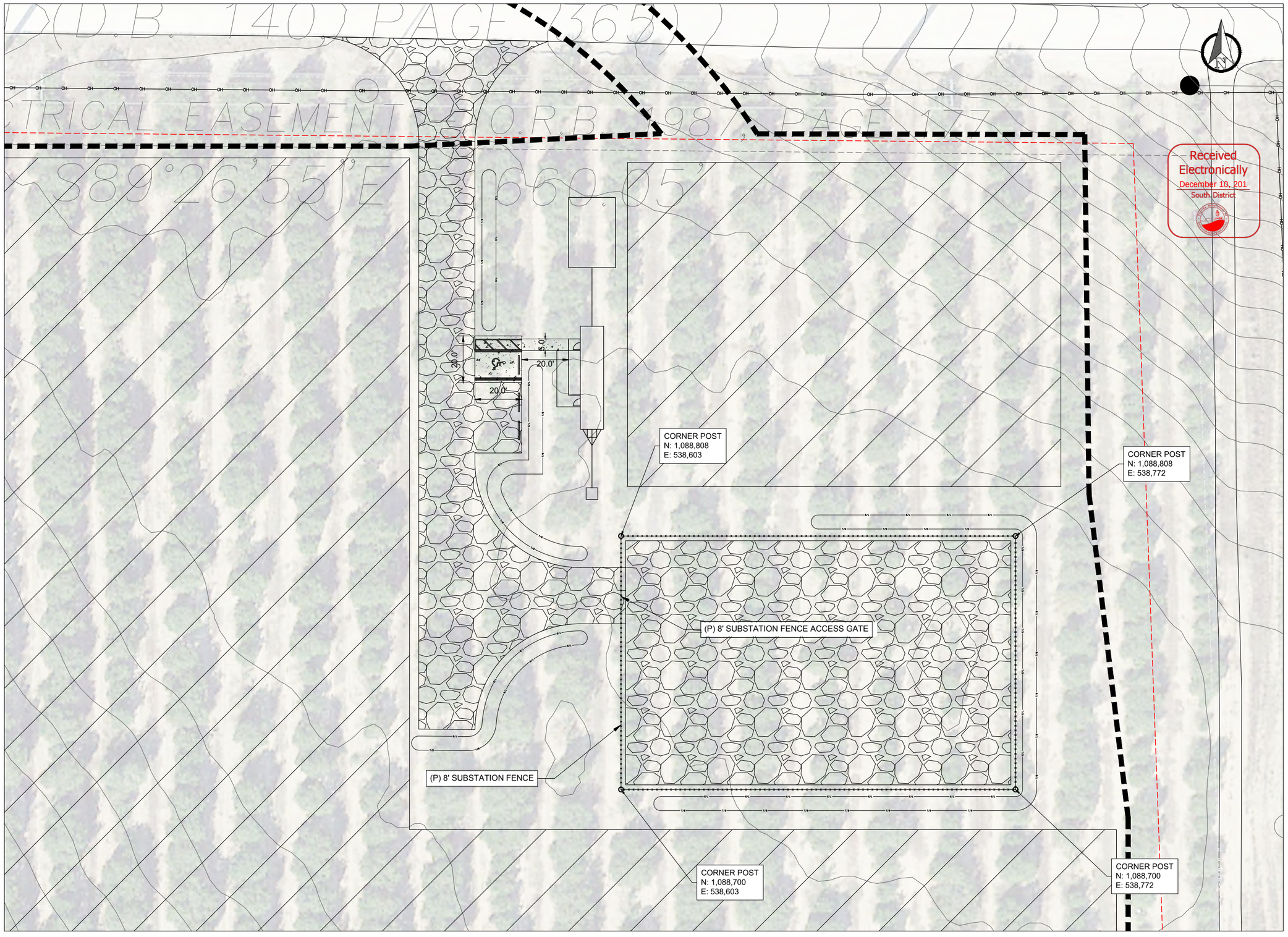

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Phone: (386) 427-0694 Fax: (386) 427-0889

LAKE PLACID SOLAR

SUBSTATION FENCING PLAN

SCALE:	1" = 40' @ 11" x 17"
PROJECT NO.:	18-0487
PROJECT DATE:	12-2018

DESIGNED BY:	CRF
DRAWN BY:	KNG
CHECKED BY:	CRF & RJ
APPROVED BY:	CRF

0 10 20 40

REVISION:	DATE: XX-XX-XXXX
REVISION:	DATE: XX-XX-XXXX
REVISION:	DATE: XX-XX-XXXX
REVISION:	DATE: XX-XX-XXXX

C - 9

CHRIS R. FAGERSTROM LICENSE No. 63045 STATE OF FLORIDA PROFESSIONAL ENGINEER

Chris Fagerstrom, P.E. No. 63045
12-5-2018
Date

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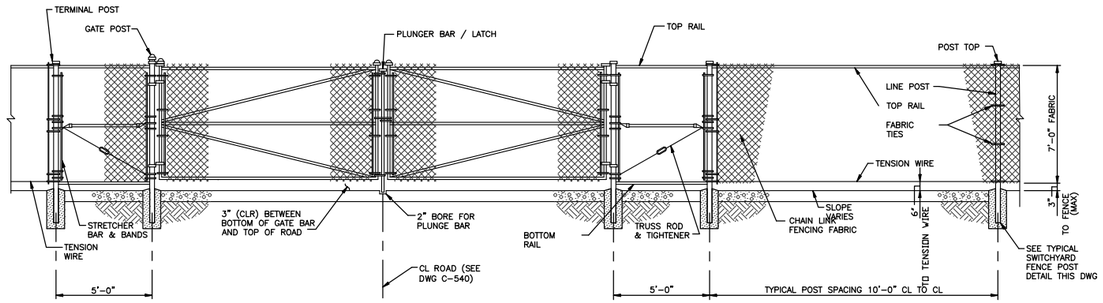
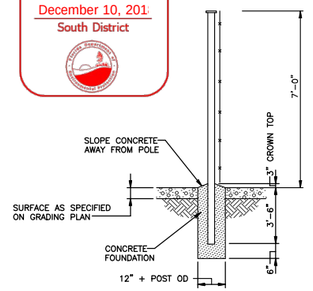
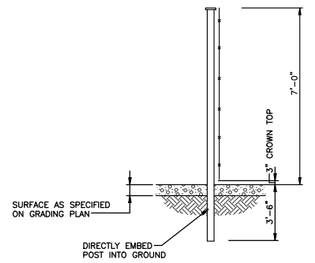


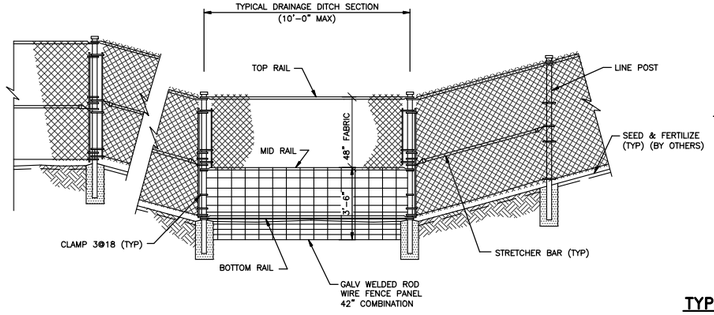
TYPICAL PERIMETER FENCE WITH SWING GATE DETAIL
NTS



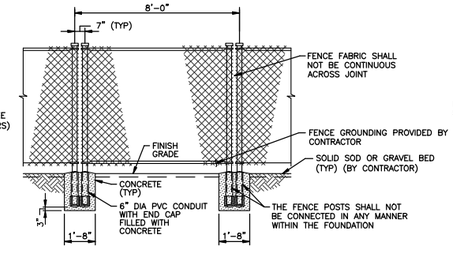
TYPICAL CORNER FENCE POST DETAIL
NO SCALE



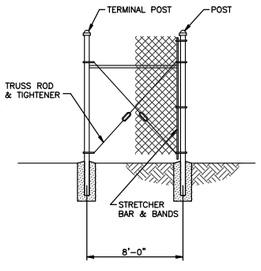
TYPICAL INLINE FENCE POST DETAIL
NO SCALE



TYPICAL FENCE SECTION THROUGH DRAINAGE SWALE
NO SCALE



TYPICAL FENCE ISOLATION JOINT DETAIL
NO SCALE



TYPICAL FENCE TERMINATION DETAIL
NO SCALE

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707 East Third Ave., New Smyrna Beach, FL 32169
Phone: (386) 427-0694 Fax: (386) 427-0889

LAKE PLACID SOLAR

PERIMETER SECURITY FENCE DETAILS

SCALE:	N/A
PROJECT NO.:	18-0487
PROJECT DATE:	12-2018

DESIGNED BY:	CRF
DRAWN BY:	KNG
CHECKED BY:	KNG
APPROVED BY:	CRF

REVISION:	1	DATE: XX-XX-XXXX
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CHRIS R. FAGERSTROM LICENSE No. 63045 STATE OF FLORIDA PROFESSIONAL ENGINEER
Chris Fagerstrom, P.E. No. 63045
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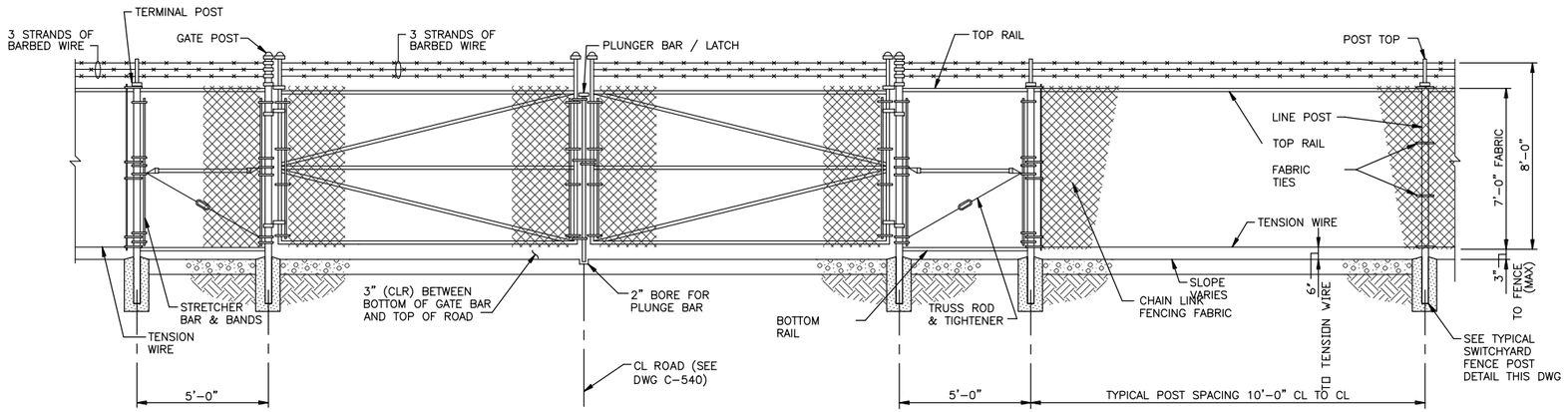
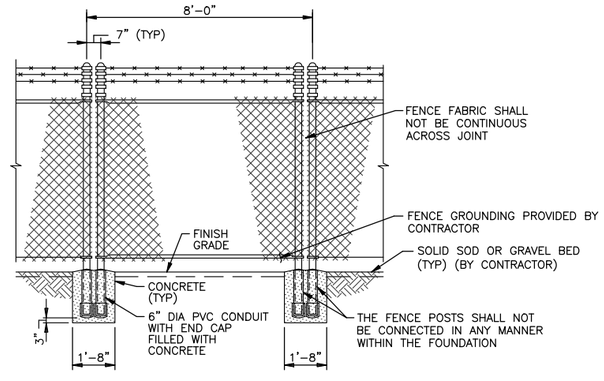


TYPICAL SWITCHYARD FENCE WITH SWING GATE DETAIL
NTS



TYPICAL FENCE ISOLATION JOINT DETAIL
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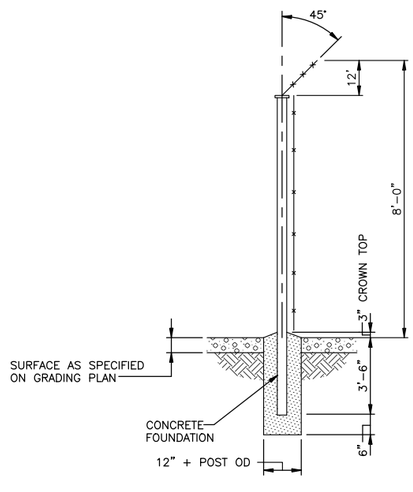

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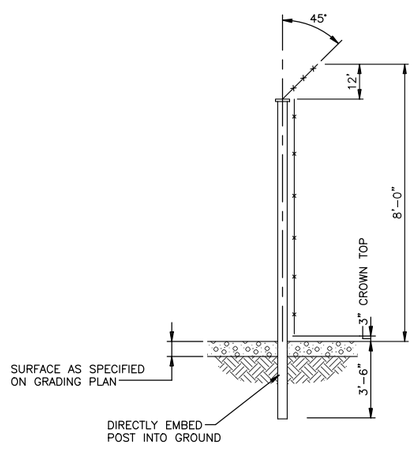

TYPICAL INLINE FENCE POST DETAIL
NO SCALE

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707 East Third Ave., New Smyrna Beach, FL 32169
Phone: (386) 427-0694 Fax: (386) 427-0889

LAKE PLACID SOLAR

SWITCHYARD FENCE DETAILS

SCALE:	N/A
PROJECT NO.:	18-0487
PROJECT DATE:	12-2018

DESIGNED BY:	CRF
DRAWN BY:	KNG
CHECKED BY:	KNG
APPROVED BY:	CRF

REVISION:	1	DATE: XX-XX-XXXX
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C - 11

CHRIS R. FAGERSTROM LICENSE No. 63045 STATE OF FLORIDA PROFESSIONAL ENGINEER
Chris Fagerstrom, P.E. No. 63045
12-5-2018
Date

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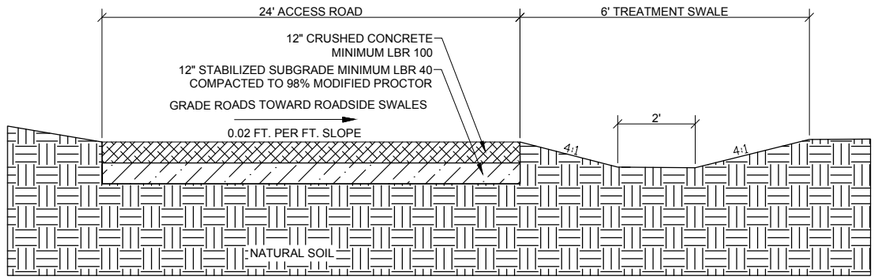
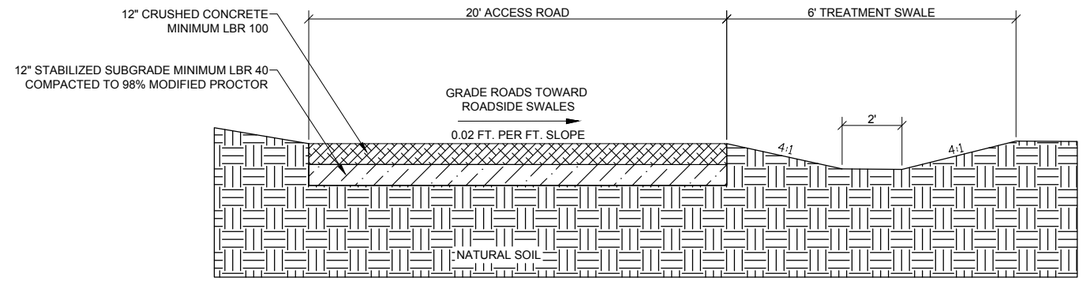


MAIN SITE ACCESS ROADS
NTS



INTERIOR ARRAY ACCESS ROAD
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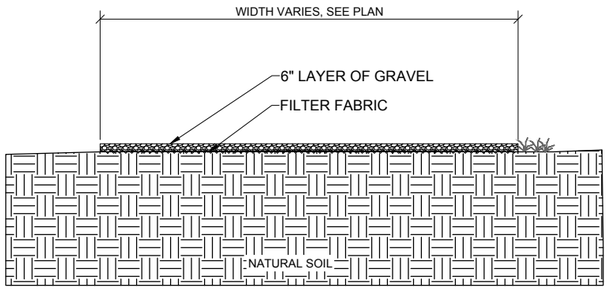
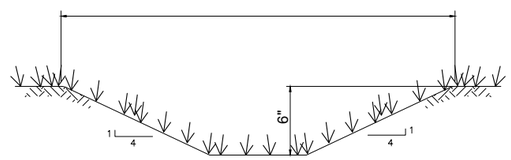


TEMPORARY CONSTRUCTION LAYDOWN AREAS
NTS

NOTES:

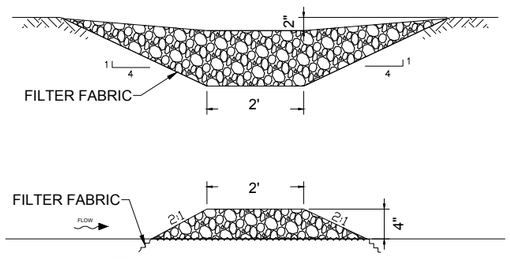
1. CONTRACTOR TO REMOVE AND RESTORE FOLLOWING CONSTRUCTION



NOTES:

1. SWALES SHALL HAVE 4:1 MAXIMUM SIDE SLOPES, WITH 2' BOTTOM WIDTH
2. SWALES SHALL BE GRASSED AND CHECK DAMS PLACED AS NEEDED TO CONTROL OVERFLOWS AND VELOCITIES.

TYPICAL SHALLOW GRASSED TREATMENT SWALE
NTS



NOTES:

1. CONTRACTOR TO PROVIDE EVERY 200' WITHIN TREATMENT SWALE

TYPICAL STONE CHECK DAM
NTS

ECT Environmental Consulting & Technology, Inc.
707 East Third Ave., New Smyrna Beach, FL 32169
Phone: (386) 427-0694 Fax: (386) 427-0889

LAKE PLACID SOLAR

DETAILS
&
CROSS SECTIONS

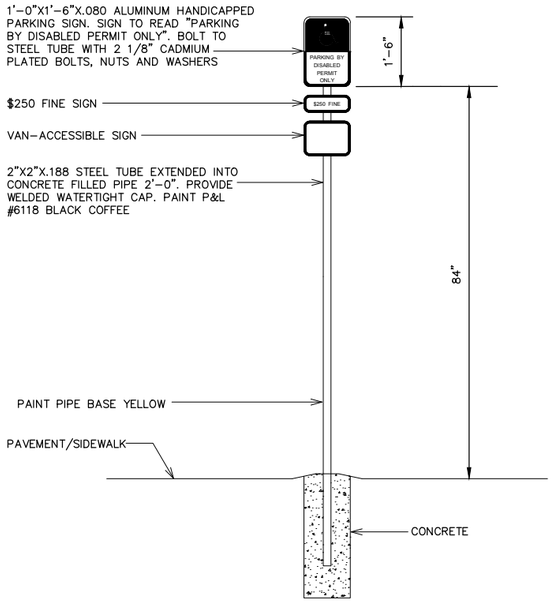
SCALE:	N/A
PROJECT NO.:	18-0487
PROJECT DATE:	12-2018

DESIGNED BY:	CRF
DRAWN BY:	KNG
CHECKED BY:	KNG
APPROVED BY:	CRF

REVISION:	1	DATE: XX-XX-XXXX
REVISION:	2	DATE: XX-XX-XXXX
REVISION:	3	DATE: XX-XX-XXXX
REVISION:	4	DATE: XX-XX-XXXX

CD - 1

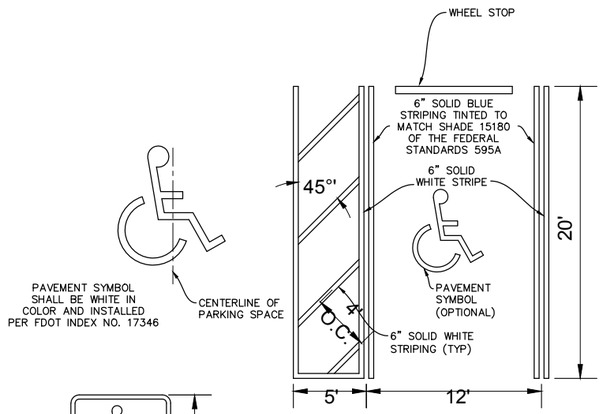
CHRIS R. FAGERSTROM LICENSE No. 63045 STATE OF FLORIDA PROFESSIONAL ENGINEER
Chris Fagerstrom, P.E. No. 63045
12-5-2018
Date

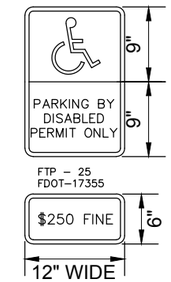


NOTE:

1. HANDICAPPED PARKING SIGN SHALL CONFORM WITH CURRENT STATE AND LOCAL AND FEDERAL CODES AND REGULATIONS.
2. ALL SIGNS SHALL BE DESIGNED TO WITHSTAND 100 M.P.H. WINDLOAD.

HANDICAPPED SIGN





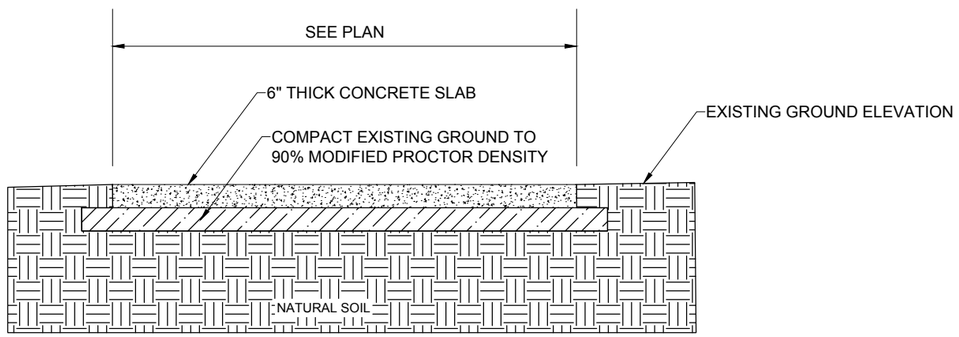
SUPPLEMENTAL PLATE WITH 1" BLUE OR BLACK LEGEND AND A 1/2" BLUE OR BLACK BORDER ON A WHITE BACKGROUND.

PARKING SPACE NOTES:

1. TOP PORTION OF FTP-25 SHALL HAVE A REFLECTIVE BLUE BACKGROUND WITH WHITE REFLECTIVE SYMBOL AND BORDER. BOTTOM PORTION SHALL HAVE A REFLECTIVE WHITE BACKGROUND WITH BLACK OPAQUE LEGEND AND BORDER.
2. PERPENDICULAR AND DIAGONAL HANDICAPPED PARKING STALLS WILL BE 12 FT. WIDE AND 20 FT. LONG WITH A 5 FT. WIDE ACCESS AISLE ADJACENT TO EACH STALL. THE 5 FT. WIDE ACCESS AISLE MAY BE SHARED BY TWO ADJACENT HANDICAPPED PARKING STALLS.
3. PARALLEL HANDICAPPED PARKING STALLS WILL BE 12 FT. WIDE AND 22 FT. LONG WITH A 5 FT. WIDE ACCESS AISLE ADJACENT TO EACH STALL.
4. ALL HANDICAPPED PARKING STALLS, 5 FT. WIDE ACCESS AISLES, HANDICAPPED RAMPS, AND ACCESSIBLE ROUTES MUST BE PAVED.
5. ALL HANDICAPPED RAMPS SHALL BE A MINIMUM OF 22" WIDE EXCLUSIVE OF THE FLARED SIDES WITH A MAXIMUM SLOPE OF 12:1 RAMPS TO BE CONSTRUCTED IN ACCORDANCE WITH FDOT INDEX NO. 304.
6. ONE FTP-25 OR FTP-26 SIGN WITH SUPPLEMENTAL SIGN IS REQUIRED FOR EACH HANDICAPPED PARKING STALL.
7. BOTTOM EDGE OF SIGN TO BE 7'-0" ABOVE PAVEMENT.
8. BLUE STRIPING SHALL BE TINTED TO MATCH SHADE 15180 OF THE FEDERAL STANDARDS 595C.

HANDICAPPED PARKING SPACE

N.T.S



HANDICAP PARKING AREA

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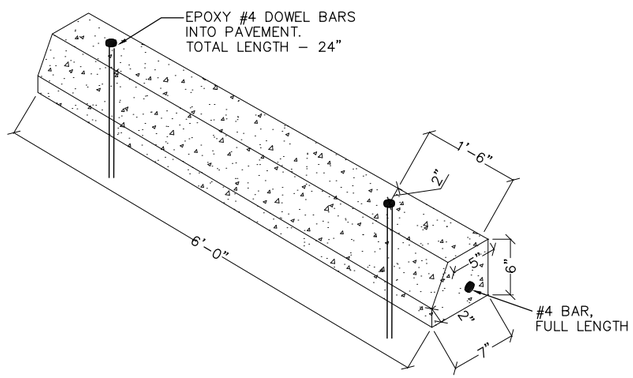

CONCRETE WHEEL STOP DETAIL

NTS

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Phone: (386) 427-0694 Fax: (386) 427-0889

LAKE PLACID SOLAR

PARKING DETAILS

SCALE:	N/A
PROJECT NO.:	18-0487
PROJECT DATE:	12-2018

DESIGNED BY:	CRF
DRAWN BY:	KNG
CHECKED BY:	KNG
APPROVED BY:	CRF

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CD - 2

CHRIS R. FAGERSTROM LICENSE No. 63045 STATE OF FLORIDA PROFESSIONAL ENGINEER
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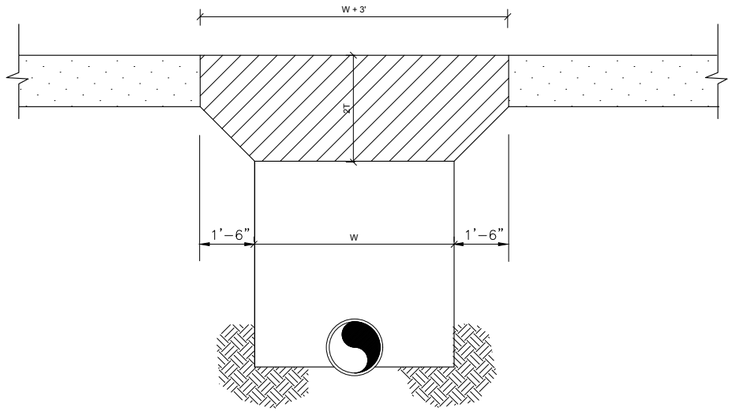

TRENCH IN EXISTING UNPAVED ROAD

N.T.S.

1. THE NEW ROAD MATERIAL SHALL BE THE SAME AS THE EXISTING MATERIAL AND SHALL BE TWICE THE THICKNESS OF THE ORIGINAL MATERIAL. IT SHALL BE COMPACTED TO 100 PERCENT OF THE MAXIMUM DENSITY PER AASHTO T–180.

2. ALL TRENCH BACKFILL UNDER THE ROAD AND WITHIN 5 FEET OUTSIDE OF THE EDGES OF THE ROAD SHALL BE COMPACTED PER ASSHTO T–180.

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TRENCHING

1. UNDER NO CIRCUMSTANCES SHALL PIPE/CABLE BE LAID IN A WET TRENCH OR SEWAGE PUMPING STATION BE CONSTRUCTED IN A WET EXCAVATION. DEWATERING SHALL BE INCLUDED IN THE CONTRACTOR'S BID PRICE.

2. ALL FILL OR BACKFILL PLACED UNDER OR WITHIN 5 FEET OF PAVED SURFACES OR STRUCTURES (INCLUDING DIRT OR MARL/GRAVEL ROADS AND DRIVEWAYS) SHALL BE COMPACTED TO A MINIMUM 98 PERCENT MAXIMUM DRY DENSITY, PER AASHTO T-180. ALL OTHER FILL OR BACKFILL MATERIAL SHALL BE COMPACTED TO MINIMUM 95 PERCENT MAXIMUM DRY DENSITY, PER AASHTO T-180.

3. CABLE BURIAL DEPTH SHALL BE 36 INCHES, MINIMUM, UNLESS SHOWN OTHERWISE ON THE CONSTRUCTION DRAWINGS. WHERE TOP OF CABLE ELEVATIONS ARE SHOWN ON THE CONSTRUCTION DRAWINGS, THE CABLE SHALL BE LAID TO THESE ELEVATIONS. IF THE CABLE IS NOT LAID TO THE ELEVATIONS SHOWN ON THE DRAWINGS, THE ENGINEER MAY REQUIRE THE CONTRACTOR TO REINSTALL THE CABLE TO THE DESIGN ELEVATIONS, AT THE CONTRACTOR'S EXPENSE.

4. THE CONTRACTOR MUST COMPLY WITH THE FLORIDA TRENCH SAFETY ACT (FLORIDA STATUTES 553.60 - 553.64, INCLUSIVE). THE CONTRACTOR SHALL ALSO COMPLETE THE FLORIDA TRENCH SAFETY ACT STATEMENT PROVIDED IN THE BIDDING AND CONTRACT DOCUMENTS.

5. THE CONTRACTOR SHALL BACKFILL ALL TRENCHES AT THE END OF EACH DAY'S WORK. NO TRENCH SHALL BE LEFT OPEN FOR LONG PERIODS OF TIME OR OVERNIGHT. TRENCHES SHALL BE ROUGH GRADED TO DRAIN.

6. CONTRACTOR MAY OPT TO INSTALL SHEETING AND BRACING IN ORDER TO LIMIT CONSTRUCTION DISTURBANCES. CONTRACTOR SHALL PROVIDE ADEQUATE SHEETING AND BRACING IN ACCORDANCE WITH CURRENT OSHA STANDARDS AND THE TRENCH SAFETY ACT. IN THE EVENT SHEETING AND BRACING ARE TO BE PROVIDED, CONTRACTOR SHALL SUBMIT A SHEETING AND BRACING PLAN TO THE ENGINEER AS A SHOP DRAWING, PREPARED BY AN ENGINEER REGISTERED IN THE STATE OF FLORIDA.

7. UNDERGROUND DIRECT-BURIED CABLES THAT ARE NOT ENCASED OR PROTECTED BY CONCRETE AND ARE BURIED 750 MM (30 IN.) OR MORE BELOW GRADE SHALL HAVE THEIR LOCATION IDENTIFIED BY A WARNING RIBBON THAT IS PLACED IN THE TRENCH AT LEAST 300 MM (12 IN.) ABOVE THE CABLES.

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LAKE PLACID SOLAR

TRENCHING DETAILS

SCALE:	N/A
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CD - 3

CHRIS R. FAGERSTROM LICENSE No. 63045 STATE OF FLORIDA PROFESSIONAL ENGINEER

Chris Fagerstrom, P.E. No. 63045
12-5-2018
Date

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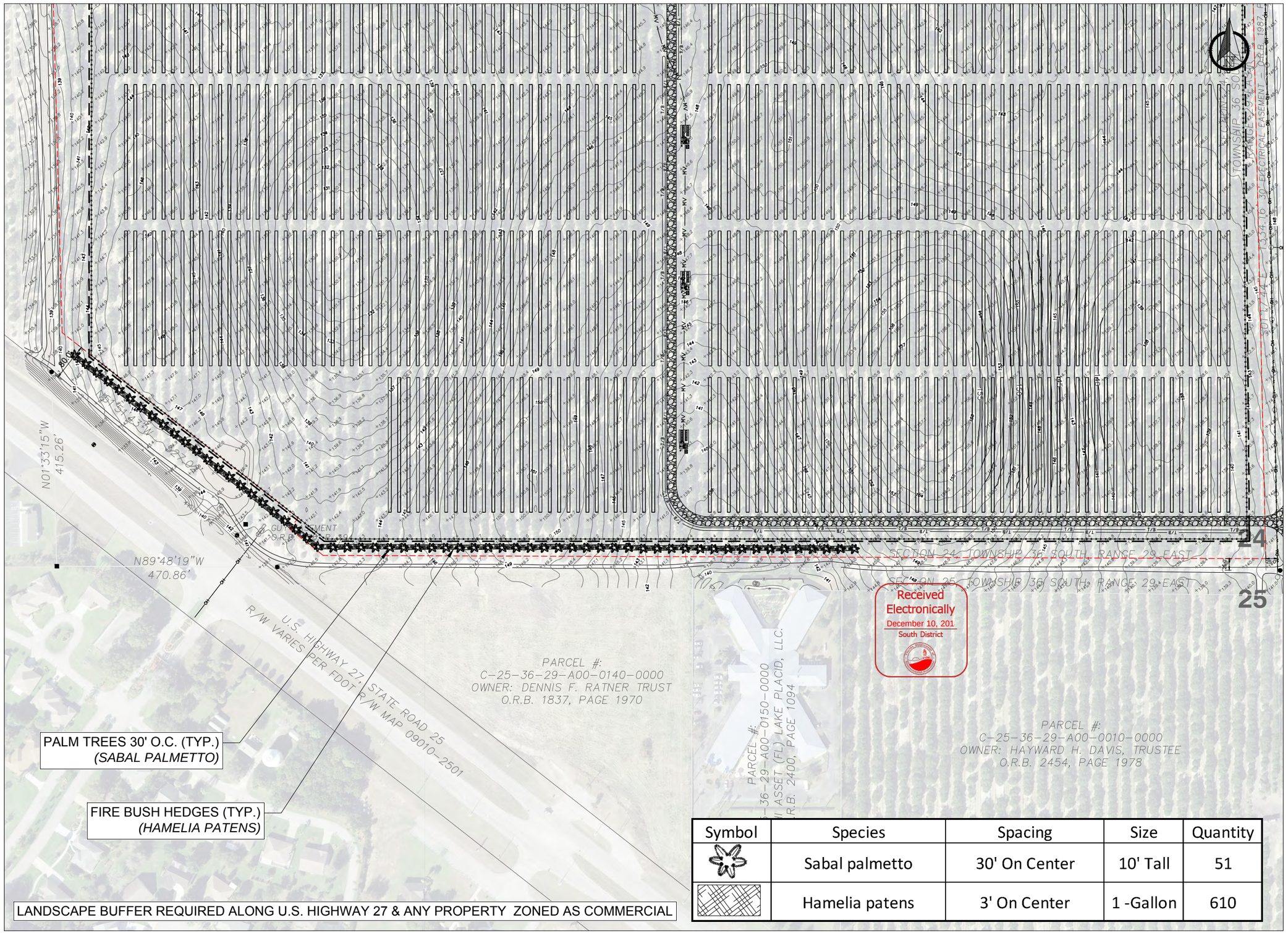

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Electronically
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South District

Symbol	Species	Spacing	Size	Quantity
	Sabal palmetto	30' On Center	10' Tall	51
	Hamelia patens	3' On Center	1 -Gallon	610

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LAKE PLACID SOLAR

LANDSCAPING PLAN

SCALE:	1" = 100'
PROJECT NO.:	18-0487
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DESIGNED BY:	CRF
DRAWN BY:	KNG
CHECKED BY:	KNG
APPROVED BY:	CRF

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REVISION:	DATE: XX-XX-XXXX
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CHRIS R. FAGERSTROM LICENSE No. 63045 STATE OF FLORIDA PROFESSIONAL ENGINEER
Chris Fagerstrom, P.E. No. 63045
12-5-2018
Date

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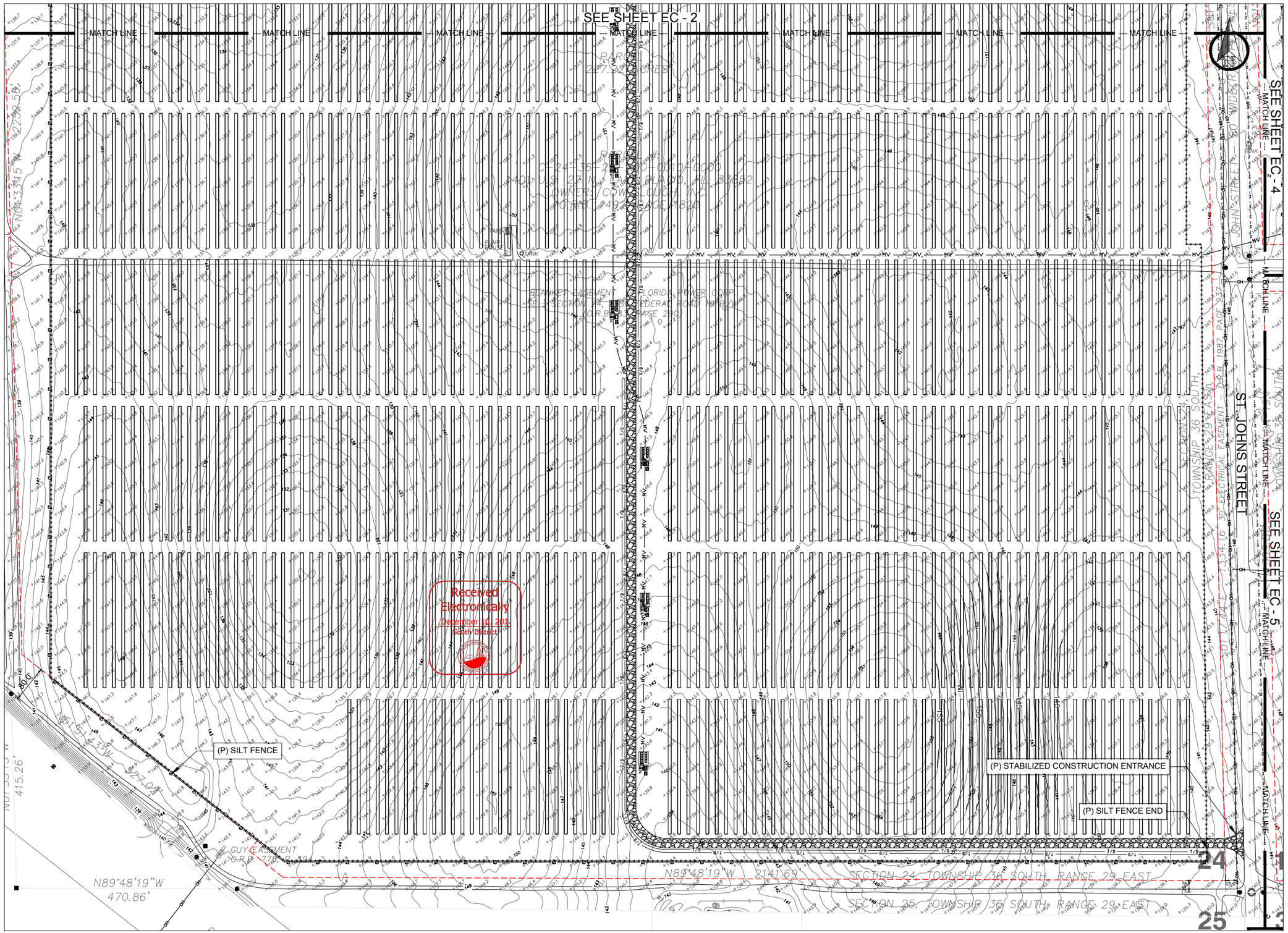

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707 East Third Ave., New Smyrna Beach, FL 32169
Phone: (386) 427-0694 Fax: (386) 427-0889

LAKE PLACID SOLAR

EROSION & SEDIMENT CONTROL PLAN

SCALE:	1" = 100'
PROJECT NO.:	18-0487
PROJECT DATE:	12-2018

DESIGNED BY:	CRF
DRAWN BY:	KNG
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CHRIS R. FAGERSTROM LICENSE No. 63045 STATE OF FLORIDA PROFESSIONAL ENGINEER
12-5-2018
Chris Fagerstrom, P.E. No. 63045

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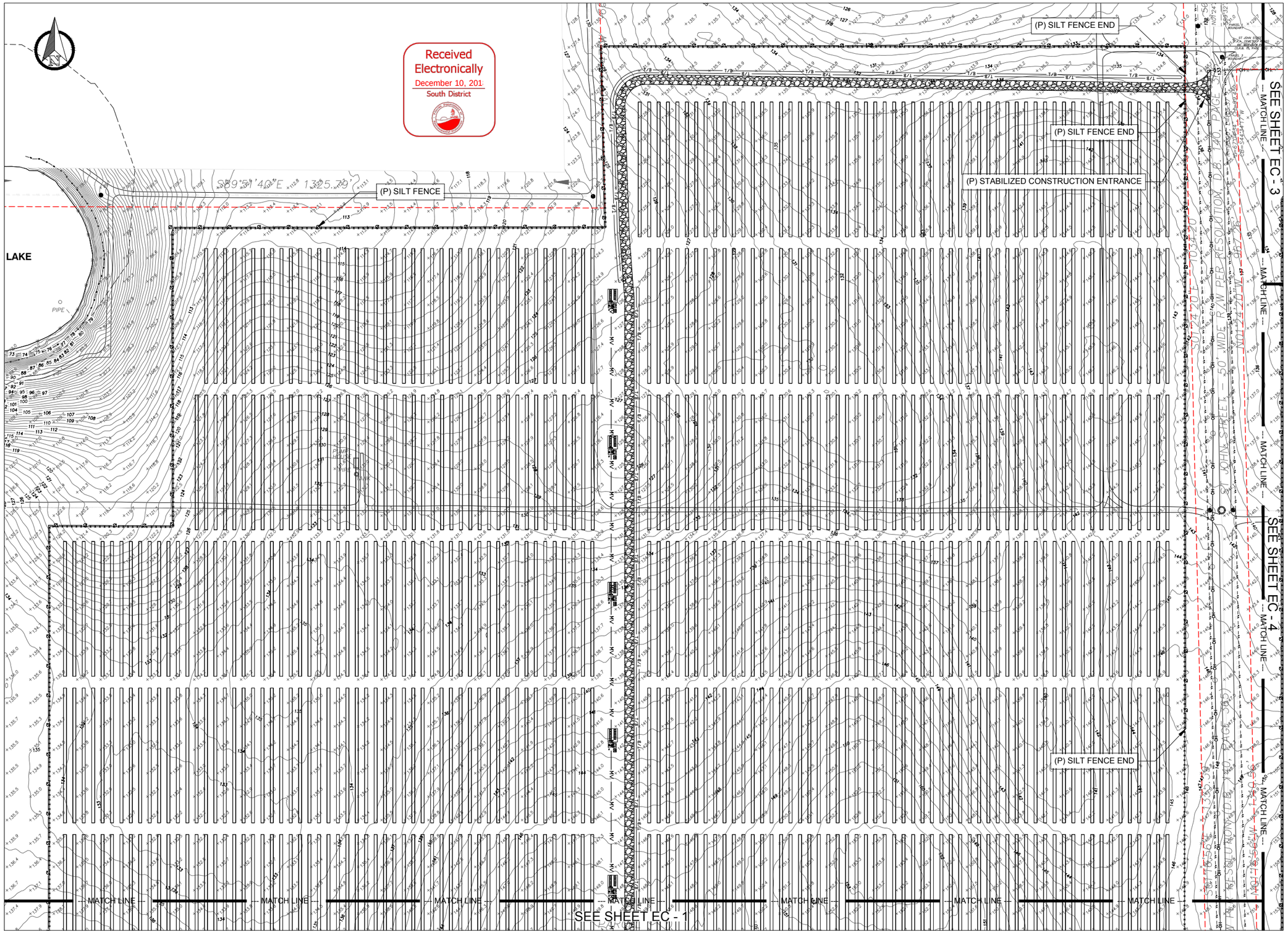

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LAKE PLACID SOLAR

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EC - 2

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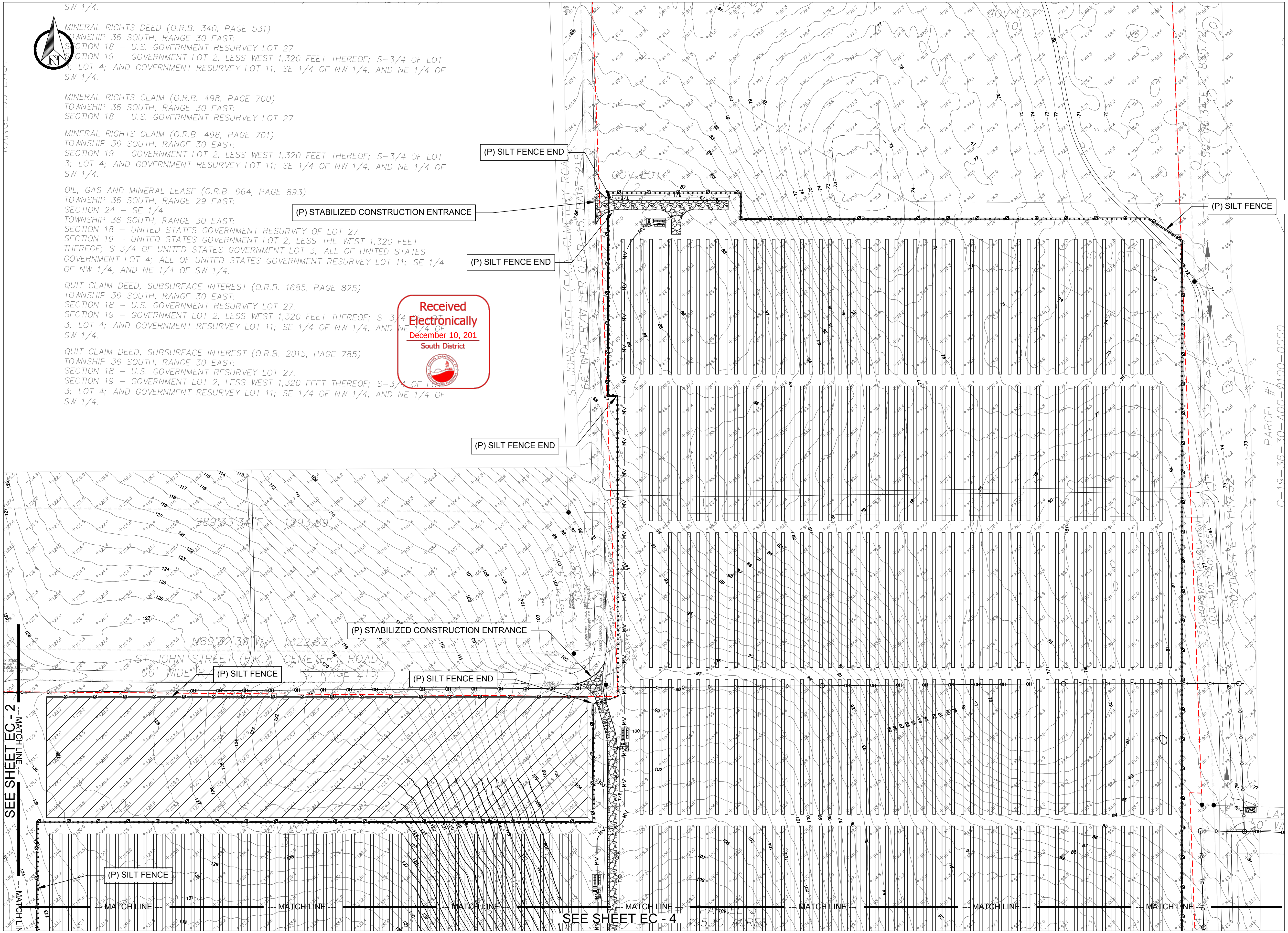

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LAKE PLACID SOLAR

EROSION & SEDIMENT CONTROL PLAN

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EC - 3

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Chris Fagerstrom, P.E. No. 63045
12-5-2018
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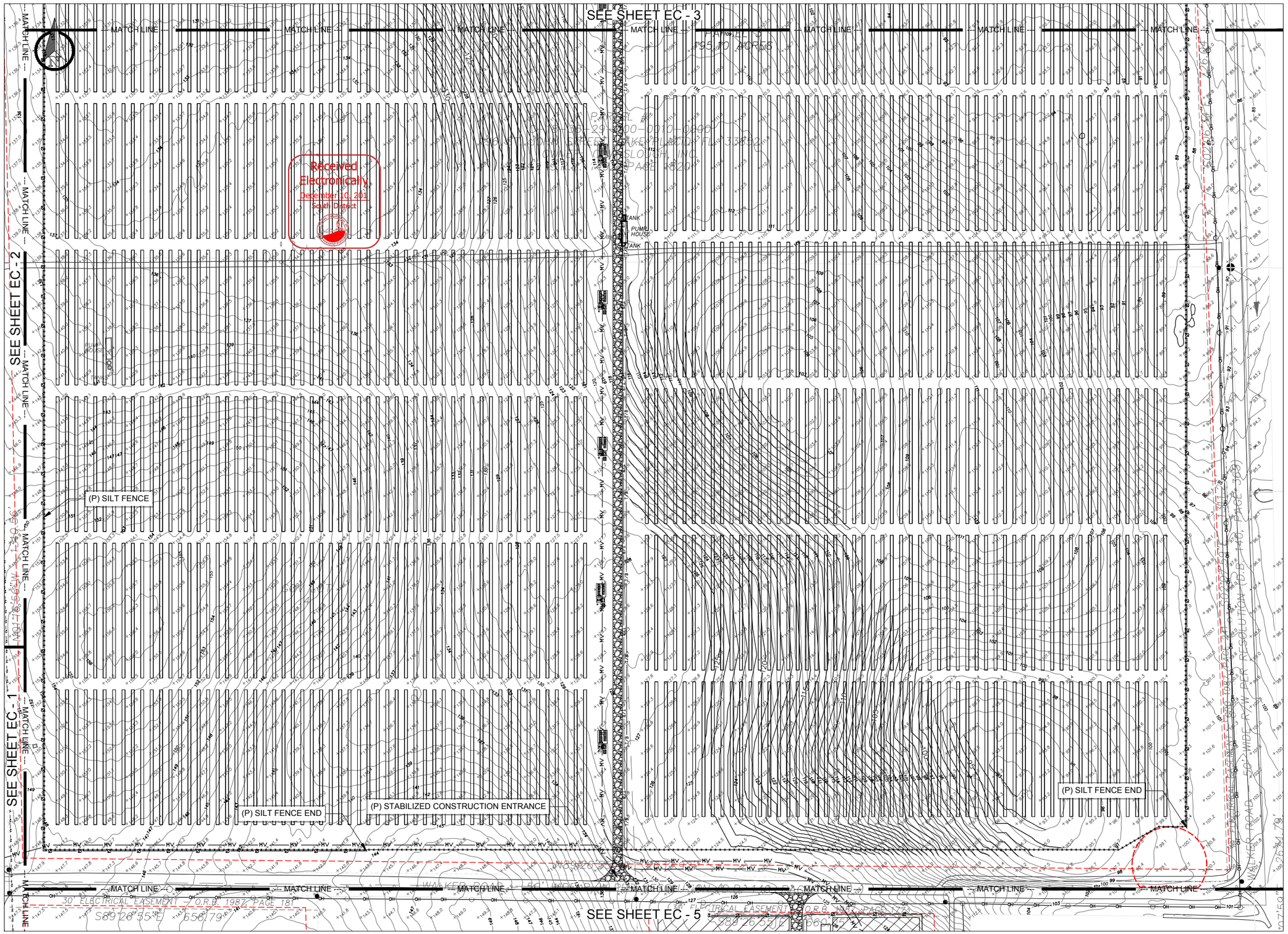

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LAKE PLACID SOLAR

EROSION & SEDIMENT CONTROL PLAN

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EC - 4

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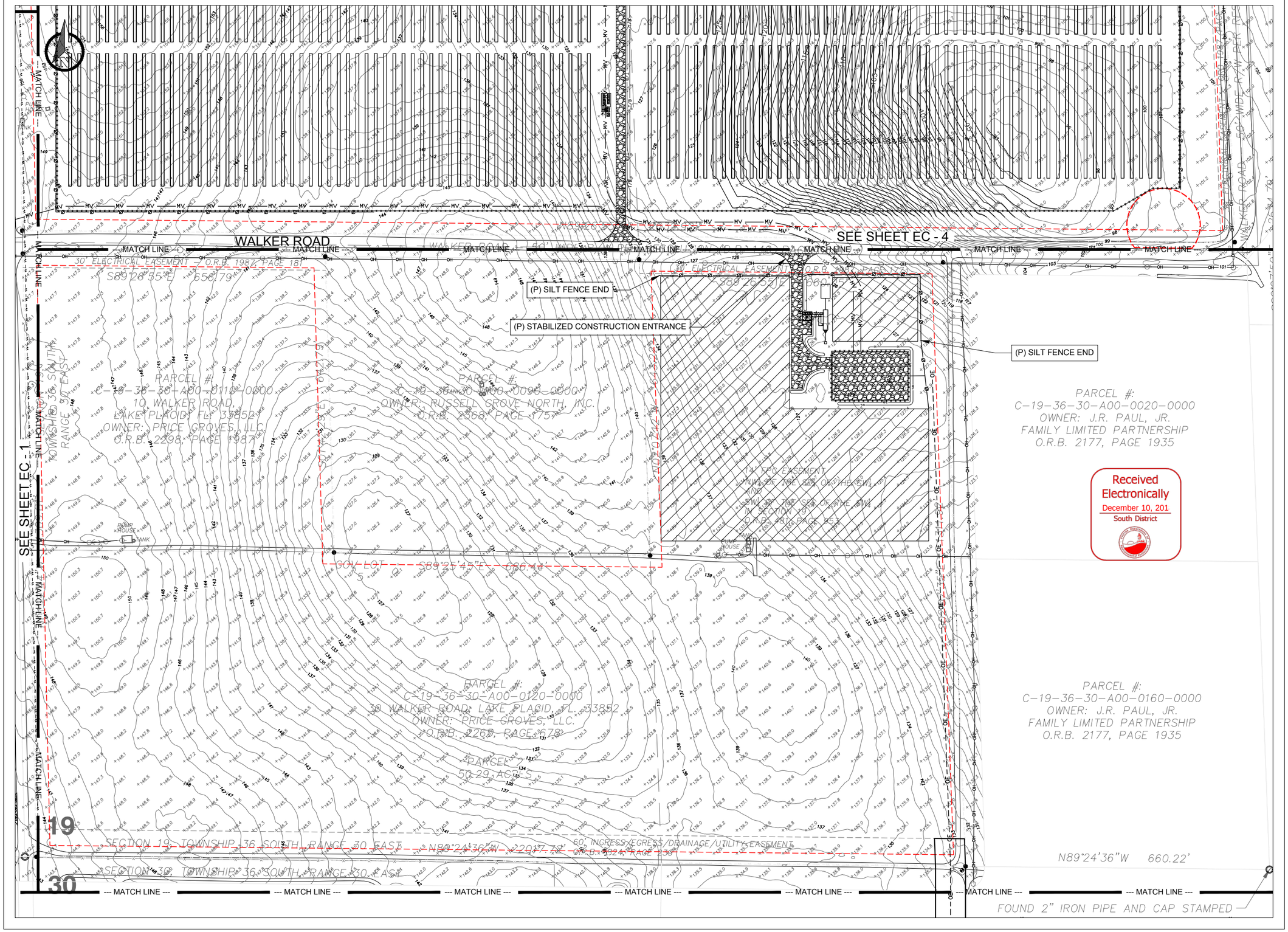

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LAKE PLACID SOLAR

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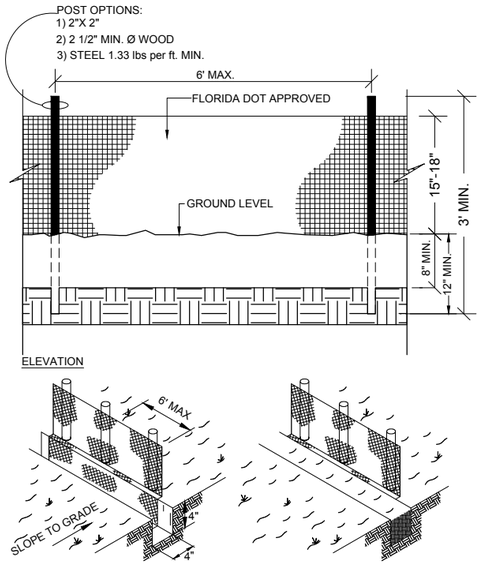
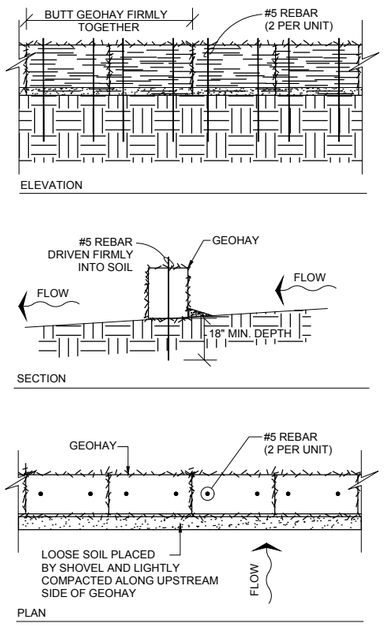
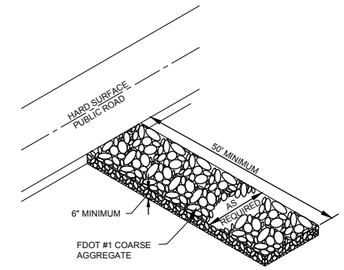


NOTES:
1.MATERIALS, CONSTRUCTION METHODS AND MAINTENANCE SHALL BE IN ACCORDANCE WITH THE FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS AND DESIGN STANDARDS CURRENT EDITION.
2. SILT FENCE SECTION SHALL BE JOINTED BY PLACING ONE END OF ONE FENCE BEHIND THE END OF THE OTHER POST AND ROTATING BOTH POSTS AT LEAST 180 DEGREES IN A CLOCKWISE DIRECTION TO CREATE A TIGHT SEAL WITH FABRIC MATERIAL. THEN DRIVE BOTH POSTS INTO THE GROUND AND BURY THE FLAP.

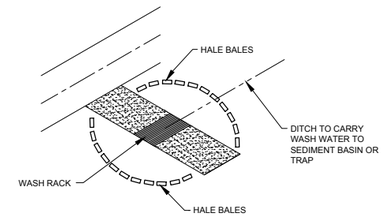
TYPICAL SILT FENCE DETAIL
NTS

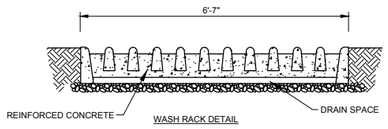


HAY DETAIL
NTS



GRAVEL CONSTRUCTION ENTRANCE
N.T.S.





WASH RACK DETAIL

GRAVEL CONSTRUCTION ENTRANCE
W/ WASH RACK (IF REQUIRED)

DEFINITION

A STONE STABILIZED PAD LOCATED AT POINTS OF VEHICULAR INGRESS AND EGRESS ON A CONSTRUCTION SITE.

PURPOSE

TO REDUCE THE AMOUNT OF SEDIMENT TRANSPORTED ONTO PUBLIC ROADS BY MOTOR VEHICLES OR RUNOFF.

CONDITIONS WHERE PRACTICE APPLIES

WHEREVER TRAFFIC WILL BE LEAVING A CONSTRUCTION SITE AND MOVES DIRECTLY ONTO A PUBLIC ROAD OR OTHER PAVED AREA.

PLANNING CONSIDERATIONS

CONSTRUCTION ENTRANCES PROVIDE AN AREA WHERE MUD CAN BE REMOVED FROM CONSTRUCTION VEHICLE TIRES BEFORE THE ENTER A PUBLIC ROAD. IF THE ACTION OF THE VEHICLE TRAVELING OVER THE GRAVEL PAD IS NOT SUFFICIENT TO REMOVE THE MAJORITY OF THE MUD, THEN THE TIRES MUST BE WASHED BEFORE THE VEHICLE ENTERS A PUBLIC ROAD. IF WASHING IS USED, PROVISIONS MUST BE MADE TO INTERCEPT THE WASH WATER AND TRAP THE SEDIMENT BEFORE IT IS CARRIED OFF-SITE. CONSTRUCTION ENTRANCES SHOULD BE USED IN CONJUNCTION WITH THE STABILIZATION OF CONSTRUCTION ROADS TO REDUCE THE AMOUNT OF MUD PICKED UP BY CONSTRUCTION VEHICLES.

DESIGN CRITERIA

AGGREGATE SIZE

FDOT AGGREGATE NO. 1 (1.5 - 3.5 INCH STONE) SHOULD BE USED.

ENTRANCE DIMENSIONS

AGGREGATE LAYER MUST BE AT LEAST 6 INCHES THICK. IT MUST EXTEND THE FULL WIDTH OF THE VEHICULAR INGRESS AND EGRESS AREA. THE LENGTH OF THE ENTRANCE MUST BE AT LEAST 50 FEET. (SEE DETAIL).

WASHING

IF CONDITIONS OF THE SITE ARE SUCH THAT THE MAJORITY OF THE MUD IS NOT REMOVED BY THE VEHICLES TRAVELING OVER THE GRAVEL, THEN THE TIRES OF THE VEHICLES MUST BE WASHED BEFORE ENTERING A PUBLIC ROAD. WASH WATER MUST BE CARRIED AWAY FROM THE ENTRANCE TO A SETTLING AREA TO REMOVE SEDIMENT. A WASH RACK MAY ALSO BE USED TO MAKE WASHING MORE CONVENIENT AND EFFECTIVE. SEE DETAIL.

LOCATION

THE ENTRANCE SHOULD BE LOCATED TO PROVIDE FOR MAXIMUM UTILITY BY ALL CONSTRUCTION VEHICLES.

CONSTRUCTION SPECIFICATIONS

THE AREA OF THE ENTRANCE SHOULD BE CLEARED OF ALL VEGETATION, ROOTS AND OTHER OBJECTIONABLE MATERIAL. THE GRAVEL SHALL BE PLACED TO THE SPECIFIED DIMENSIONS. ANY DRAINAGE FACILITIES REQUIRED BECAUSE OF WASHING SHOULD BE CONSTRUCTED ACCORDING TO SPECIFICATIONS. IF WASH RACKS ARE USED, THEY SHOULD BE CONSTRUCTED ACCORDING TO SPECIFICATIONS. IF WASH RACKS ARE TO MANUFACTURER'S SPECIFICATIONS.

MAINTENANCE

THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OF FLOW OF MUD ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH 2-INCH STONE, AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY STRUCTURES USED TO TRAP SEDIMENT. ALL MATERIALS SPILLED, DROPPED, WASHED OR TRACKED FROM VEHICLES ONTO ROADWAYS OR INTO STORM DRAINS MUST BE REMOVED IMMEDIATELY.

STANDARD CONSTRUCTION DETAIL
TEMPORARY GRAVEL CONSTRUCTION ENTRANCE

ECT Environmental Consulting & Technology, Inc.
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LAKE PLACID SOLAR

EROSION & SEDIMENT CONTROL DETAILS

SCALE:	1" = 100'
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PROJECT DATE:	12-2018

DESIGNED BY:	CRF
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0 50 100 200

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12-5-2018
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EROSION AND SEDIMENTATION CONTROL NOTES

CONSTRUCTION ACTIVITIES CAN RESULT IN THE GENERATION OF SIGNIFICANT AMOUNTS OF POLLUTANTS WHICH MAY REACH SURFACE OR GROUND WATERS. ONE OF THE PRIMARY POLLUTANTS OF SURFACE WATERS IS SEDIMENT DUE TO EROSION. EXCESSIVE QUANTITIES OF SEDIMENT WHICH REACH WATER BODIES OF FLOODPLAINS HAVE BEEN SHOWN TO ADVERSELY AFFECT THEIR PHYSICAL, BIOLOGICAL, AND CHEMICAL PROPERTIES. TRANSPORTED SEDIMENT CAN OBSTRUCT STREAM CHANNELS, REDUCE HYDRAULIC CAPACITY OF WATER BODIES OF FLOODPLAINS, REDUCE THE DESIGN CAPACITY OF CULVERTS AND OTHER WORKS, AND ELIMINATE BENTHIC INVERTEBRATES AND FISH SPAWNING SUBSTRATES BY SILTATION. EXCESSIVE SUSPENDED SEDIMENTS REDUCE LIGHT PENETRATION AND THEREFORE, REDUCE PRIMARY PRODUCTIVITY.

MINIMUM STANDARDS:

1. SEDIMENT BASIN AND TRAPS, PERIMETER DIKES, SEDIMENT BARRIERS AND OTHER MEASURES INTENDED TO TRAP SEDIMENT SHALL BE CONSTRUCTED AS A FIST STEP IN ANY LAND-DISTRIBUTING ACTIVITY AND SHALL BE MADE FUNCTIONAL BEFORE UNSLOPE LAND DISTURBANCE TAKES PLACE.

2. ALL SEDIMENT CONTROL MEASURES ARE TO BE ADJUSTED TO MEET FIELD CONDITIONS AT THE TIME OF CONSTRUCTION AND BE CONSTRUCTED PRIOR TO ANY GRADING OF DISTURBANCE OF EXISTING SURFACE MATERIAL ON BALANCE OF SITE. PERIMETER SEDIMENT BARRIERS SHALL BE CONSTRUCTED TO PREVENT SEDIMENT OF TRASH FROM FLOWING OR FLOATING ON TO ADJACENT PROPERTIES.

3. PERMANENT OF TEMPORARY SOIL STABILIZATION SHALL BE APPLIED TO DENUDED AREAS WITHIN SEVEN DAYS AFTER FINAL GRADE IS REACHED ON ANY PORTION OF THE SITE. TEMPORARY SOIL STABILIZATION SHALL BE APPLIED WITHIN SEVEN DAYS TO DENUDED AREAS THAT MAY NOT BE AT FINAL GRADE BUT WILL REMAIN UNDISTURBED FOR LONGER THAN 30 DAYS. PERMANENT STABILIZATION SHALL BE APPLIED TO AREAS THAT ARE TO BE LEFT UNDISTURBED FOR MORE THAN ONE YEAR.

4. DURING CONSTRUCTION OF THE PROJECT, SOIL STOCKPILES SHALL BE STABILIZED OR PROTECTED WITH SEDIMENT TRAPPING MEASURES. THE APPLICANT IS RESPONSIBLE FOR THE TEMPORARY PROTECTION AND PERMANENT STABILIZATION OF ALL SOIL STOCKPILES ON SITE AS WELL AS SOIL INTENTIONALLY TRANSPORTED FROM THE PROJECT SITE.

5. A PERMANENT VEGETATIVE COVER SHALL BE ESTABLISHED ON DENUDED AREAS NOT OTHERWISE PERMANENTLY STABILIZED. PERMANENT VEGETATION SHALL NOT BE CONSIDERED ESTABLISHED UNTIL A GROUND COVER IS ACHIEVED THAT, IN THE OPINION OF THE REVIEWER, IS UNIFORM, MATURE ENOUGH TO SURVIVE AND WILL INHIBIT EROSION.

6. STABILIZATION MEASURES SHALL BE APPLIED TO EARTHEN STRUCTURES SUCH AS DAMS, DIKES AND DIVERSIONS IMMEDIATELY AFTER INSTALLATION.

7. SURFACE RUNOFF FROM DISTURBED AREAS THAT IS COMPRISED OF FLOW FROM DRAINAGE AREAS GREATER THAN OR EQUAL TO THREE ACRES SHALL BE CONTROLLED BY A SEDIMENT BASIN. THE SEDIMENT BASIN SHALL BE DESIGNED AND CONSTRUCTED TO ACCOMMODATE THE ANTICIPATED SEDIMENT LOADING FROM THE LAND-DISTURBING ACTIVITY. THE OUTFALL DEVICE OR SYSTEM DESIGN SHALL TAKE INTO ACCOUNT THE TOTAL DRAINAGE AREA FLOWING THROUGH THE DISTURBED AREA TO BE SERVED BY THE BASIN.

8. AFTER ANY SIGNIFICANT RAINFALL, SEDIMENT CONTROL STRUCTURES WILL BE INSPECTED FOR INTEGRITY. ANY DAMAGE DEVICES SHALL BE CORRECTED IMMEDIATELY.

9. CONCENTRATED RUNOFF SHALL NOT FLOW DOWN CUT OR FILL SLOPES UNLESS CONTAINED WITHIN AN ADEQUATE TEMPORARY OR PERMANENT CHANNEL, FLUME OR SLOPE DRAIN STRUCTURE.

10. WHENEVER WATER SEEPS FROM A SLOPE FACE, ADEQUATE DRAINAGE OR OTHER PROTECTION SHALL BE PROVIDED.

11. SEDIMENT WILL BE PREVENTED FROM ENTERING ANY STORM DRAIN SYSTEM, DITCH OR CHANNEL. ALL STORM SEWER INLETS THAT ARE MADE OPERABLE DURING CONSTRUCTION SHALL BE PROTECTED SO THAT SEDIMENT-LADEN WATER CANNOT ENTER THE CONVEYANCE SYSTEM WITHOUT FIRST BEING FILTERED OR OTHERWISE TREATED TO REMOVE SEDIMENT.

12. BEFORE TEMPORARY OR NEWLY CONSTRUCTED STORMWATER CONVEYANCE CHANNELS ARE MADE OPERATION, ADEQUATE OUTLET PROTECTION AND ANY REQUIRED TEMPORARY OR PERMANENT CHANNEL LINING SHALL BE INSTALLED IN BOTH THE CONVEYANCE CHANNEL AND RECEIVING CHANNEL.

13. WHEN WORK IN A LIVE WATERCOURSE IS PERFORMED, PRECAUTIONS SHALL BE TAKEN TO MINIMIZE ENCROACHMENT, CONTROL SEDIMENT TRANSPORT AND STABILIZE THE WORK AREA TO THE GREATEST EXTENT POSSIBLE DURING CONSTRUCTION. NONERODIBLE MATERIAL SHALL BE USED FOR THE CONSTRUCTION OF CAUSEWAYS AND COFFERDAMS. EARTHEN FILL MAY BE USED FOR THESE STRUCTURES IF ARMORED BY NONERODIBLE COVER MATERIALS.

14. WHEN A LIVE WATERCOURSE MUST BE CROSSED BY CONSTRUCTION VEHICLES, A TEMPORARY STREAM CROSSING CONSTRUCTED OF NONERODIBLE MATERIAL SHALL BE PROVIDED.

15. THE BED AND BANKS OF A WATERCOURSE SHALL BE STABILIZED IMMEDIATELY AFTER WORK IN THE WATERCOURSE IS COMPLETED.

16. PERIODIC INSPECTION AND MAINTENANCE OF ALL SEDIMENT CONTROL STRUCTURES MUST BE PROVIDED TO ENSURE INTENDED PURPOSE IS ACCOMPLISHED. THE DEVELOPER, OWNER AND/OR CONTRACTOR SHALL BE CONTINUALLY RESPONSIBLE FOR ALL SEDIMENT LEAVING THE PROPERTY. SEDIMENT CONTROL MEASURES SHALL BE IN WORKING CONDITION AT THE END OF EACH WORKING DAY.

17. UNDERGROUND UTILITY LIENS SHALL BE INSTALLED IN ACCORDANCE WITH THE FOLLOWING STANDARDS IN ADDITION TO OTHER APPLICABLE CRITERIA:

17.1. NO MORE THAT 500 LINEAR FEET OF TRENCH MAY BE OPENED AT ONE TIME.

17.2. EXCAVATED MATERIAL SHALL BE PLACED ON THE UPHILL SIDE OF TRENCHES.

17.3. EFFLUENT FROM DEWATER OPERATIONS SHALL BE FILTERED OR PASSED THROUGH AN APPROVED SEDIMENT TRAPPING DEVICE, OR BOTH, AND DISCHARGED IN A MANNER THAT DOES NOT ADVERSELY AFFECT FLOWING STREAMS OR OFF-SITE PROPERTY.

17.4. RESTABILIZATION SHALL BE ACCOMPLISHED IN ACCORDANCE WITH THESE REGULATIONS.

18. WHERE CONSTRUCTION VEHICLE ACCESS ROUTES INTERSECT PAVED PUBLIC ROADS, PROVISIONS SHALL BE MADE TO MINIMIZE THE TRANSPORT OF SEDIMENT BY TRACKING ONTO THE PAVED SURFACE, WHERE SEDIMENT IS TRANSPORTED ONTO A PUBLIC ROAD SURFACE WITH CURBS AND GUTTERS, THE ROAD SHALL BE CLEANED THOROUGHLY AT THE END OF EACH DAY. SEDIMENT SHALL BE REMOVED FROM THE ROADS BY SHOVELING OR SWEEPING AND TRANSPORTED TO A SEDIMENT CONTROL DISPOSAL AREA. STREET WASHING SHALL BE ALLOWED ONLY AFTER SEDIMENT IS REMOVED IN THIS MANNER. THIS PROVISION SHALL APPLY TO INDIVIDUAL SUBDIVISION LOTS AS WELL AS TO LARGER LAND-DISTRIBUTING ACTIVITIES.

19. ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED WITHIN 30 DAYS AFTER FINAL SITE STABILIZATION OR AFTER THE TEMPORARY MEASURES ARE NO LONGER NEEDED, IN THE OPINION OF THE REVIEWER. DISTURBED SOIL AREAS RESULTING FROM THE DISPOSITION OF TEMPORARY MEASURES SHALL BE PERMANENTLY STABILIZED TO PREVENT FURTHER EROSION AND SEDIMENTATION.

20. PROPERTIES AND WATERWAYS DOWNSTREAM FROM CONSTRUCTION SITE SHALL BE PROTECTED FROM SEDIMENT DISPOSITION AND EROSION.

21. PHASED PROJECTS SHOULD BE CLEARED IN CONJUNCTION WITH CONSTRUCTION OF EACH PHASE.

22. EROSION CONTROL DESIGN AND CONSTRUCTION SHALL FOLLOW THE REQUIREMENTS IN INDEX NOS. 101, 102, 103 OF FDOT ROADWAY AND TRAFFIC DESIGN STANDARDS.

23. THE REVIEWER MAY APPROVE MODIFICATIONS OR AFTER PLANS TO THESE EROSION CONTROL CRITERIA DUE TO SITE SPECIFIC CONDITIONS.

24. THE CONTRACTOR IS TO PREPARE A STORMWATER POLLUTION PREVENTION PLAN (SWPPP) IN ACCORDANCE WITH NPDES REQUIREMENTS AND THE NOTES ON THESE PLANS PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL SUBMIT COMPLETED NPDES NOTICE OF INTENT (NOI) AND NOTICE OF TERMINATION (NOT) FORMS TO FDEP, WITH COPIES PROVIDED TO THE CITY.

25. PER THE NPDES GENERIC PERMIT (PART II.5), FINAL STABILIZATION OCCURS WHEN VEGETATIVE COVER WITH A DENSITY OF AT LEAST 70% OCCURS.

26. STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE, BUT IN NO CASE MORE THAN 7 DAYS, IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, AS REQUIRED PER THE NPDES GENERIC PERMIT (PART V.D.2.A(1)).

27. NOTE THAT THE INSPECTION FREQUENCY SHOWN IN NOTE 6 ON THE SWPPP IS MORE STRINGENT THAN THE FREQUENCY REQUIRED BY THE NPDES GENERIC PERMIT (THE REQUIRED FREQUENCY IS ONCE EVERY 7 DAYS AND WITHIN 24 HOURS OF ANY RAINFALL AMOUNT MEASURING 0.5 INCHES OR GREATER).

<u>FDEP 62-621.300(4)(A) PART V. STORMWATER POLLUTION PREVENTION PLAN</u>

A. A STORMWATER POLLUTION PREVENTION PLAN SHALL BE DEVELOPED AND IMPLEMENTED FOR EACH CONSTRUCTION SITE COVERED BY THIS PERMIT. STORMWATER POLLUTION PREVENTION PLANS SHALL BE PREPARED IN ACCORDANCE WITH GOOD ENGINEERING PRACTICES. EQUIVALENT EROSION AND SEDIMENT CONTROL PLANS PREPARED AS AN ENVIRONMENTAL RESOURCE PERMIT REQUIREMENT UNDER PART IV, CHAPTER 373, F.S., MAY SERVE AS THE POLLUTION PREVENTION PLAN PROVIDED ALL OF THE ELEMENTS OF THIS SECTION ARE INCLUDED IN SUCH AN ALTERNATIVE PLAN. THE PLAN SHALL IDENTIFY POTENTIAL SOURCES OF POLLUTION THAT MAY REASONABLY BE EXPECTED TO AFFECT THE QUALITY OF STORMWATER DISCHARGE ASSOCIATED WITH CONSTRUCTION ACTIVITY. IN ADDITION, THE PLAN SHALL DESCRIBE AND ENSURE THE IMPLEMENTATION OF BEST MANAGEMENT PRACTICES WHICH WILL BE USED TO REDUCE THE POLLUTANTS IN STORMWATER DISCHARGE ASSOCIATED WITH CONSTRUCTION ACTIVITY AND TO ASSURE COMPLIANCE WITH THE TERMS AND CONDITIONS OF THIS PERMIT. FACILITIES MUST IMPLEMENT THE PROVISIONS OF THE STORMWATER POLLUTION PREVENTION PLAN REQUIRED UNDER THIS PART AS A CONDITION OF THIS PERMIT. FAILURE TO DEVELOP AND IMPLEMENT A STORMWATER POLLUTION PREVENTION PLAN IN ACCORDANCE WITH THE REQUIREMENTS OF THIS PART SHALL BE DEEMED A VIOLATION OF THIS PERMIT AND THE PERMITTEE SHALL BE SUBJECT TO ENFORCEMENT ACTION.

B. DEADLINES FOR PLAN PREPARATION AND COMPLIANCE.
   1. THE POLLUTION PREVENTION PLAN SHALL:
      A. BE COMPLETED (INCLUDING CERTIFICATION BY THE OPERATOR IN ACCORDANCE WITH PART VII.C.) PRIOR TO THE SUBMITTAL OF AN NOI TO BE COVERED UNDER THIS PERMIT AND UPDATED AS APPROPRIATE;
      B. THE PLAN SHALL PROVIDE FOR COMPLIANCE WITH THE TERMS AND SCHEDULE OF THE PLAN BEGINNING WITH THE INITIATION OF CONSTRUCTION ACTIVITIES.

C. KEEPING PLANS CURRENT.
   1. THE PERMITTEE SHALL AMEND THE PLAN WHENEVER THERE IS A CHANGE IN DESIGN, CONSTRUCTION, OPERATION, OR MAINTENANCE, WHICH HAS A SIGNIFICANT EFFECT ON THE POTENTIAL FOR THE DISCHARGE OF POLLUTANTS TO SURFACE WATERS OF THE STATE OR AN MS4, INCLUDING THE ADDITION OF OR CHANGE IN LOCATION OF STORMWATER DISCHARGE POINTS, AND WHICH HAS NOT OTHERWISE BEEN ADDRESSED IN THE PLAN. THE PERMITTEE ALSO SHALL AMEND THE PLAN IF IT PROVES TO BE INEFFECTIVE IN ELIMINATING OR SIGNIFICANTLY MINIMIZING POLLUTANTS FROM SOURCES IDENTIFIED UNDER PART V.D.1. OF THIS PERMIT, OR IN OTHERWISE ACHIEVING THE GENERAL OBJECTIVES OF CONTROLLING POLLUTANTS IN STORMWATER DISCHARGE ASSOCIATED WITH CONSTRUCTION ACTIVITY. IN ADDITION, THE PLAN SHALL BE AMENDED TO IDENTIFY ANY NEW CONTRACTOR AND/OR SUBCONTRACTOR THAT WILL IMPLEMENT A MEASURE OF THE STORMWATER POLLUTION PREVENTION PLAN (SEE PART V.D.6.). AMENDMENTS TO THE PLAN SHALL BE PREPARED, SIGNED, DATED AND KEPT AS ATTACHMENTS TO THE ORIGINAL PLAN.

D. CONTENTS OF PLAN.
   1. SITE DESCRIPTION. EACH PLAN SHALL PROVIDE A DESCRIPTION OF POLLUTANT SOURCES AND OTHER INFORMATION AS INDICATED:
      A. A DESCRIPTION OF THE NATURE OF THE CONSTRUCTION ACTIVITY;
      B. A DESCRIPTION OF THE INTENDED SEQUENCE OF MAJOR ACTIVITIES WHICH DISTURB SOILS FOR MAJOR PORTIONS OF THE SITE (E.G., GRUBBING, EXCAVATION, GRADING);
      C. ESTIMATES OF THE TOTAL AREA OF THE SITE AND THE TOTAL AREA OF THE SITE THAT IS EXPECTED TO BE DISTURBED BY EXCAVATION, GRADING, OR OTHER CONSTRUCTION ACTIVITIES;
      D. EXISTING DATA DESCRIBING THE SOIL OR THE QUALITY OF ANY DISCHARGE FROM THE SITE AND AN ESTIMATE OF THE SIZE OF THE DRAINAGE AREA FOR EACH DISCHARGE POINT;
      E. A SITE MAP INDICATING DRAINAGE PATTERNS AND APPROXIMATE SLOPES ANTICIPATED AFTER MAJOR GRADING ACTIVITIES, AREAS OF SOIL DISTURBANCE, AN OUTLINE OF AREAS WHICH MAY NOT BE DISTURBED, THE LOCATION OF MAJOR STRUCTURAL AND NONSTRUCTURAL CONTROLS IDENTIFIED IN THE PLAN, THE LOCATION OF AREAS WHERE STABILIZATION PRACTICES ARE EXPECTED TO OCCUR, SURFACE WATERS, WETLANDS AND LOCATIONS WHERE STORMWATER IS DISCHARGED TO A SURFACE WATER OR MS4; AND
      F. THE LATITUDE AND LONGITUDE OF EACH DISCHARGE POINT AND THE NAME OF THE RECEIVING WATER(S) FOR EACH DISCHARGE POINT.

   2. CONTROLS. EACH PLAN SHALL INCLUDE A DESCRIPTION OF APPROPRIATE CONTROLS, BMPS AND MEASURES THAT WILL BE IMPLEMENTED AT THE CONSTRUCTION SITE. THE PLAN SHALL CLEARLY DESCRIBE FOR EACH MAJOR ACTIVITY IDENTIFIED IN PART V.D.1.B. APPROPRIATE CONTROL MEASURES AND THE TIMING DURING THE CONSTRUCTION PROCESS THAT THE MEASURES WILL BE IMPLEMENTED. FOR EXAMPLE, PERIMETER CONTROLS FOR ONE PORTION OF THE SITE WILL BE INSTALLED AFTER THE CLEARING AND GRUBBING NECESSARY FOR INSTALLATION OF THE MEASURE, BUT BEFORE THE CLEARING AND GRUBBING FOR THE REMAINING PORTIONS OF THE SITE. PERIMETER CONTROLS SHALL BE ACTIVELY MAINTAINED UNTIL FINAL STABILIZATION OF THOSE PORTIONS OF THE SITE UPWARD OF THE PERIMETER CONTROL. TEMPORARY PERIMETER CONTROLS SHALL BE REMOVED AFTER FINAL STABILIZATION. ALL CONTROLS SHALL BE CONSISTENT WITH THE PERFORMANCE STANDARDS FOR EROSION AND SEDIMENT CONTROL AND STORMWATER TREATMENT AS SET FORTH IN RULE 62-40.432, F.A.C., THE APPLICABLE ENVIRONMENTAL RESOURCE PERMITTING REQUIREMENTS OF THE DEP OR APPROPRIATE WMD RELATING TO PERFORMANCE STANDARDS FOR EROSION AND SEDIMENT CONTROL AND STORMWATER TREATMENT AND THE GUIDELINES CONTAINED IN THE STATE OF FLORIDA EROSION AND SEDIMENT CONTROL DESIGNER AND REVIEWER MANUAL, FDOT, FDEP (2007), INCORPORATED BY REFERENCE IN RULE 62-621.300(4)(A), F.A.C., AND AVAILABLE ON THE DEPARTMENT'S WEBSITE AT HTTP://WWW.DEP.STATE.FL.US/WATER/STORMWATER/NPDES.

      A. EROSION AND SEDIMENT CONTROLS.
         (1) STABILIZATION PRACTICES. EACH PLAN SHALL PROVIDE A DESCRIPTION OF INTERIM AND PERMANENT STABILIZATION PRACTICES, INCLUDING SITE-SPECIFIC SCHEDULING OF THE IMPLEMENTATION OF THE PRACTICES. SITE PLANS SHOULD ENSURE THAT EXISTING VEGETATION IS PRESERVED WHERE ATTAINABLE AND THAT DISTURBED PORTIONS OF THE SITE ARE STABILIZED. STABILIZATION PRACTICES MAY INCLUDE: TEMPORARY SEEDING, PERMANENT SEEDING, MULCHING, GEOTEXTILES, SOD STABILIZATION, VEGETATIVE BUFFER STRIPS, PROTECTION OF TREES, PRESERVATION OF MATURE VEGETATION AND OTHER APPROPRIATE MEASURES. A RECORD OF THE DATES WHEN MAJOR GRADING ACTIVITIES OCCUR, WHEN CONSTRUCTION ACTIVITIES TEMPORARILY OR PERMANENTLY CEASE ON A PORTION OF THE SITE AND WHEN STABILIZATION MEASURES ARE INITIATED SHALL BE INCLUDED IN THE PLAN. STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE, BUT IN NO CASE MORE THAN 7 DAYS, IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED.
         (2) STRUCTURAL PRACTICES. EACH PLAN SHALL INCLUDE A DESCRIPTION OF STRUCTURAL PRACTICES TO DIVERT FLOWS FROM EXPOSED SOILS, STORE FLOWS, RETAIN SEDIMENT ON-SITE OR OTHERWISE LIMIT RUNOFF AND THE DISCHARGE OF POLLUTANTS FROM EXPOSED AREAS OF THE SITE. SUCH PRACTICES MAY INCLUDE SILT FENCES, EARTH DIKES, DIVERSIONS, SWALES, SEDIMENT TRAPS, CHECK DAMS, SUBSURFACE DRAINS, PIPE SLOPE DRAINS, LEVEL SPREADERS, STORM DRAIN INLET PROTECTION, ROCK OUTLET PROTECTION, REINFORCED SOIL RETAINING SYSTEMS, GABIONS, COAGULATING AGENTS AND TEMPORARY OR PERMANENT SEDIMENT BASINS. STRUCTURAL BMPS SHALL BE PLACED ON UPLAND SOILS UNLESS A STATE OF FLORIDA WETLAND RESOURCE MANAGEMENT PERMIT OR ENVIRONMENTAL RESOURCE PERMIT ISSUED PURSUANT TO CHAPTER 373, F.S., AND APPLICABLE REGULATIONS OF THE DEP OR WMD AUTHORIZE OTHERWISE.
         (3) SEDIMENT BASINS.
            (A) FOR DRAINAGE BASINS WITH 10 OR MORE DISTURBED ACRES AT ONE TIME, A TEMPORARY (OR PERMANENT) SEDIMENT BASIN PROVIDING 3,600 CUBIC FEET OF STORAGE PER ACRE DRAINED, OR EQUIVALENT CONTROL MEASURES, SHALL BE PROVIDED WHERE ATTAINABLE UNTIL FINAL STABILIZATION OF THE SITE. THE 3,600 CUBIC FEET OF STORAGE AREA PER ACRE DRAINED DOES NOT APPLY TO FLOWS FROM OFFSITE AREAS AND FLOWS FROM ONSITE AREAS THAT ARE EITHER UNDISTURBED OR HAVE UNDERGONE FINAL STABILIZATION WHERE SUCH FLOWS ARE DIVERTED AROUND BOTH THE DISTURBED AREA AND THE SEDIMENT BASIN. FOR DRAINAGE BASINS WITH 10 OR MORE DISTURBED ACRES AT ONE TIME AND WHERE A TEMPORARY SEDIMENT BASIN PROVIDING 3,600 CUBIC FEET OF STORAGE PER ACRE DRAINED, OR EQUIVALENT CONTROLS IS NOT ATTAINABLE, A COMBINATION OF SMALLER SEDIMENT BASINS AND/OR SEDIMENT TRAPS AND OTHER BMPS SHOULD BE USED. AT A MINIMUM, SILT FENCES OR EQUIVALENT SEDIMENT CONTROLS ARE REQUIRED FOR ALL SIDESLOPE AND DOWNSLOPE BOUNDARIES OF THE CONSTRUCTION AREA.
            (B) FOR DRAINAGE BASINS OF LESS THAN 10 ACRES, SEDIMENT BASINS AND/OR SEDIMENT TRAPS ARE RECOMMENDED BUT NOT REQUIRED. AT A MINIMUM, SILT FENCES OR EQUIVALENT SEDIMENT CONTROLS ARE REQUIRED FOR ALL SIDESLOPE AND DOWNSLOPE BOUNDARIES OF THE CONSTRUCTION AREA.
            (C) AREAS THAT WILL BE USED FOR PERMANENT STORMWATER INFILTRATION TREATMENT (E.G., STORMWATER RETENTION PONDS) SHOULD NOT BE USED FOR TEMPORARY SEDIMENT BASINS UNLESS APPROPRIATE MEASURES ARE TAKEN TO ASSURE REMOVAL OF ACCUMULATED FINE SEDIMENTS, WHICH MAY CAUSE PREMATURE CLOGGING AND LOSS OF INFILTRATION CAPACITY, AND TO AVOID EXCESSIVE COMPACTION OF SOILS BY CONSTRUCTION MACHINERY OR EQUIPMENT.

      B. PERMANENT STORMWATER MANAGEMENT CONTROLS. EACH PLAN SHALL INCLUDE A DESCRIPTION OF STORMWATER MANAGEMENT CONTROLS OR BMPS (E.G., STORMWATER DETENTION OR RETENTION SYSTEMS, VEGETATED SWALES, VELOCITY DISSIPATION DEVICES AT DISCHARGE POINTS) THAT WILL BE INSTALLED DURING THE CONSTRUCTION PROCESS TO CONTROL POLLUTANTS IN STORMWATER DISCHARGES THAT WILL OCCUR DURING CONSTRUCTION AND AFTER CONSTRUCTION OPERATIONS HAVE BEEN COMPLETED. THIS GENERIC PERMIT ONLY ADDRESSES THE INSTALLATION OF STORMWATER MANAGEMENT CONTROLS AND NOT THE ULTIMATE OPERATION AND MAINTENANCE OF SUCH CONTROLS AFTER THE CONSTRUCTION ACTIVITIES HAVE BEEN COMPLETED AND THE SITE HAS UNDERGONE FINAL STABILIZATION. UNDER THIS GENERIC PERMIT, PERMITTEES ARE ONLY RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF STORMWATER MANAGEMENT BMPS PRIOR TO FINAL STABILIZATION OF THE SITE, AND ARE NOT RESPONSIBLE FOR MAINTENANCE AFTER STORMWATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY HAVE BEEN ELIMINATED FROM THE SITE. HOWEVER, ALL STORMWATER MANAGEMENT SYSTEMS AND BMPS SHALL BE OPERATED AND MAINTAINED IN PERPETUITY AFTER FINAL STABILIZATION IN ACCORDANCE WITH REQUIREMENTS SET FORTH IN THE STATE OF FLORIDA ENVIRONMENTAL RESOURCE PERMIT ISSUED UNDER PART IV, CHAPTER 373, F.S.

      C. CONTROLS FOR OTHER POTENTIAL POLLUTANTS.
         (1) WASTE DISPOSAL. THE PLAN SHALL ASSURE THAT WASTE, SUCH AS DISCARDED BUILDING MATERIALS, CHEMICALS, LITTER AND SANITARY WASTE ARE PROPERLY CONTROLLED IN ACCORDANCE WITH ALL APPLICABLE STATE, LOCAL AND FEDERAL REGULATIONS. THIS PERMIT DOES NOT AUTHORIZE THE DISCHARGE OF SOLID MATERIALS, INCLUDING BUILDING MATERIALS, TO SURFACE WATERS OF THE STATE OR AN MS4.
         (2) THE PLAN SHALL ASSURE THAT OFF-SITE VEHICLE TRACKING OF SEDIMENTS AND THE GENERATION OF DUST IS MINIMIZED.
         (3) THE PLAN SHALL BE CONSISTENT WITH APPLICABLE STATE AND LOCAL WASTE DISPOSAL, SANITARY SEWER OR SEPTIC SYSTEM REGULATIONS.
         (4) THE PLAN SHALL ADDRESS THE PROPER APPLICATION RATES AND METHODS FOR THE USE OF FERTILIZERS, HERBICIDES AND PESTICIDES AT THE CONSTRUCTION SITE AND SET FORTH HOW THESE PROCEDURES WILL BE IMPLEMENTED AND ENFORCED. NUTRIENTS SHALL BE APPLIED ONLY AT RATES NECESSARY TO ESTABLISH AND MAINTAIN VEGETATION.
         (5) THE PLAN SHALL ENSURE THAT THE APPLICATION, GENERATION AND MIGRATION OF TOXIC SUBSTANCES ARE LIMITED AND THAT TOXIC MATERIALS ARE PROPERLY STORED AND DISPOSED.

   3. MAINTENANCE. THE PLAN SHALL INCLUDE A DESCRIPTION OF PROCEDURES THAT WILL BE FOLLOWED TO ENSURE THE TIMELY MAINTENANCE OF VEGETATION, EROSION AND SEDIMENT CONTROLS, STORMWATER MANAGEMENT PRACTICES AND OTHER PROTECTIVE MEASURES AND BMPS SO THEY WILL REMAIN IN GOOD AND EFFECTIVE OPERATING CONDITION.

   4. INSPECTIONS. AT LEAST ONCE EVERY SEVEN CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A STORM THAT IS 0.50 INCHES OR GREATER, A QUALIFIED INSPECTOR (PROVIDED BY THE OPERATOR) SHALL INSPECT ALL POINTS OF DISCHARGE INTO SURFACE WATERS OF THE STATE OR AN MS4; DISTURBED AREAS OF THE CONSTRUCTION SITE THAT HAVE NOT BEEN FINALLY STABILIZED; AREAS USED FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION; STRUCTURAL CONTROLS; AND LOCATIONS WHERE VEHICLES ENTER OR EXIT THE SITE AS FOLLOWS:

      A. DISTURBED AREAS AND AREAS USED FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION SHALL BE INSPECTED FOR EVIDENCE OF, OR THE POTENTIAL FOR, POLLUTANTS ENTERING THE STORMWATER SYSTEM. THE STORMWATER MANAGEMENT SYSTEM AND EROSION AND SEDIMENT CONTROL MEASURES IDENTIFIED IN THE PLAN SHALL BE OBSERVED TO ENSURE THAT THEY ARE OPERATING CORRECTLY. DISCHARGE LOCATIONS OR POINTS SHALL BE INSPECTED TO ASCERTAIN WHETHER EROSION AND SEDIMENT CONTROL AND STORMWATER TREATMENT MEASURES ARE EFFECTIVE IN PREVENTING OR MINIMIZING THE DISCHARGE OF POLLUTANTS, INCLUDING RETAINING SEDIMENT ONSITE PURSUANT TO RULE 62-40.432, F.A.C. LOCATIONS WHERE VEHICLES ENTER OR EXIT THE SITE SHALL BE INSPECTED FOR EVIDENCE OF OFFSITE SEDIMENT TRACKING.

      B. BASED ON THE RESULTS OF THE INSPECTION, ALL MAINTENANCE OPERATIONS NEEDED TO ASSURE PROPER OPERATION OF ALL CONTROLS, BMPS, PRACTICES OR MEASURES IDENTIFIED IN THE STORMWATER POLLUTION PREVENTION PLAN SHALL BE DONE IN A TIMELY MANNER, BUT IN NO CASE LATER THAN 7 CALENDAR DAYS FOLLOWING THE INSPECTION. IF NEEDED, POLLUTION PREVENTION CONTROLS, BMPS AND MEASURES IDENTIFIED IN THE PLAN SHALL BE REVISED AS APPROPRIATE, BUT IN NO CASE LATER THAN 7 CALENDAR DAYS FOLLOWING THE INSPECTION. SUCH MODIFICATIONS SHALL PROVIDE FOR TIMELY IMPLEMENTATION OF ANY CHANGES TO THE PLAN WITHIN 7 CALENDAR DAYS FOLLOWING THE INSPECTION.

      C. A REPORT SUMMARIZING THE SCOPE OF THE INSPECTION; NAME(S) AND QUALIFICATIONS OF PERSONNEL MAKING THE INSPECTION; THE DATE(S) OF THE INSPECTION; RAINFALL DATA; MAJOR OBSERVATIONS RELATING TO THE IMPLEMENTATION OF THE STORMWATER POLLUTION PREVENTION PLAN; AND ACTIONS TAKEN IN ACCORDANCE WITH PARAGRAPH V.D.4.B. OF THIS PERMIT, SHALL BE MADE AND RETAINED, IN ACCORDANCE WITH PART VI OF THIS PERMIT, AS PART OF THE STORMWATER POLLUTION PREVENTION PLAN. SUCH REPORTS SHALL IDENTIFY ANY INCIDENTS OF NON-COMPLIANCE. WHERE A REPORT DOES NOT IDENTIFY ANY INCIDENTS OF NON-COMPLIANCE, THE REPORT SHALL CONTAIN A CERTIFICATION THAT THE FACILITY IS IN COMPLIANCE WITH THE STORMWATER POLLUTION PREVENTION PLAN AND THIS PERMIT. THE REPORT SHALL BE SIGNED IN ACCORDANCE WITH PART VII.C. OF THIS PERMIT.

   5. NON-STORMWATER DISCHARGES. EXCEPT FOR FLOWS FROM FIRE FIGHTING ACTIVITIES, SOURCES OF NON-STORMWATER LISTED IN PART IV.A.3. OF THIS PERMIT THAT ARE COMBINED WITH STORMWATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY MUST BE IDENTIFIED IN THE PLAN. THE PLAN SHALL IDENTIFY AND ENSURE THE IMPLEMENTATION OF APPROPRIATE POLLUTION PREVENTION AND TREATMENT MEASURES FOR THE NON-STORMWATER COMPONENT(S) OF THE DISCHARGE.
   6. CONTRACTOR/SUBCONTRACTOR CERTIFICATION.

      A. THE STORMWATER POLLUTION PREVENTION PLAN MUST CLEARLY IDENTIFY, FOR EACH MEASURE IDENTIFIED IN THE PLAN, THE CONTRACTOR(S) AND/OR SUBCONTRACTOR(S) THAT WILL IMPLEMENT THE MEASURE. ALL CONTRACTORS AND SUBCONTRACTORS IDENTIFIED IN THE PLAN MUST SIGN A COPY OF THE CERTIFICATION STATEMENT IN PART V.D.6.B. OF THIS PERMIT. ALL CERTIFICATIONS MUST BE INCLUDED IN THE STORMWATER POLLUTION PREVENTION PLAN.

      B. CERTIFICATION STATEMENT FOR CONTRACTORS/SUBCONTRACTORS. ALL CONTRACTORS AND SUBCONTRACTORS IDENTIFIED IN A STORMWATER POLLUTION PREVENTION PLAN IN ACCORDANCE WITH PART V.D.6.A. OF THIS PERMIT SHALL SIGN A COPY OF THE FOLLOWING CERTIFICATION STATEMENT BEFORE CONDUCTING ANY ACTIVITIES AT THE SITE:

      "I CERTIFY UNDER PENALTY OF LAW THAT I UNDERSTAND, AND SHALL COMPLY WITH, THE TERMS AND CONDITIONS OF THE STATE OF FLORIDA GENERIC PERMIT FOR STORMWATER DISCHARGE FROM LARGE AND SMALL CONSTRUCTION ACTIVITIES AND THIS STORMWATER POLLUTION PREVENTION PLAN PREPARED THEREUNDER."

      THE CERTIFICATION MUST INCLUDE THE NAME AND TITLE OF THE PERSON PROVIDING THE SIGNATURE IN ACCORDANCE WITH PART VII.C. OF THIS PERMIT; THE NAME, ADDRESS AND TELEPHONE NUMBER OF THE CONTRACTING FIRM; AND THE DATE THE CERTIFICATION IS MADE.

PART VI. RETENTION OF RECORDS
A. THE PERMITTEE SHALL RETAIN COPIES OF STORMWATER POLLUTION PREVENTION PLANS AND ALL REPORTS REQUIRED BY THIS PERMIT, AND RECORDS OF ALL DATA USED TO COMPLETE THE NOTICE OF INTENT TO BE COVERED BY THIS PERMIT, FOR A PERIOD OF AT LEAST THREE YEARS FROM THE DATE THAT THE SITE IS FINALLY STABILIZED.

B. THE PERMITTEE SHALL RETAIN A COPY OF THE STORMWATER POLLUTION PREVENTION PLAN AND ALL REPORTS, RECORDS AND DOCUMENTATION REQUIRED BY THIS PERMIT AT THE CONSTRUCTION SITE, OR AN APPROPRIATE ALTERNATIVE LOCATION AS SPECIFIED IN THE NOI, FROM THE DATE OF PROJECT INITIATION TO THE DATE OF FINAL STABILIZATION.

PART VII. STANDARD PERMIT CONDITIONS
A. ANY PERMIT NONCOMPLIANCE CONSTITUTES A VIOLATION OF SECTION 403.161, F. S. AND IS GROUNDS FOR ENFORCEMENT ACTION; FOR PERMIT COVERAGE TERMINATION, OR REVOCATION; OR FOR DENIAL OF PERMIT COVERAGE RENEWAL.

B. ALL OF THE GENERAL CONDITIONS LISTED IN RULE 62-621.250, F.A.C., ARE ADOPTED HEREIN BY REFERENCE.

C. SIGNATORY REQUIREMENTS.
   1. ALL NOTICES OF INTENT, NOTICES OF TERMINATION, STORMWATER POLLUTION PREVENTION PLANS, REPORTS, CERTIFICATIONS OR INFORMATION EITHER SUBMITTED TO THE DEPARTMENT OR THE OPERATOR OF A MUNICIPAL SEPARATE STORM SEWER SYSTEM, OR THAT THIS PERMIT REQUIRES BE MAINTAINED BY THE PERMITTEE, SHALL BE SIGNED AS SET FORTH IN RULE 62-620.305, F.A.C.
   2. INSPECTION REPORTS PREPARED PURSUANT TO PART V.D.4.C. OF THIS PERMIT SHALL BE SIGNED BY THE QUALIFIED INSPECTOR THAT PREPARED THEM AS WELL AS BY A RESPONSIBLE AUTHORITY FOR THE OPERATOR AS SPECIFIED IN PART VII.C.1. ABOVE.
   3. ANY PERSON SIGNING DOCUMENTS UNDER THIS PERMIT, EXCEPT CONTRACTOR/SUBCONTRACTOR CERTIFICATIONS UNDER PART V.D.6., SHALL MAKE THE FOLLOWING 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 DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHERED AND EVALUATED THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS."

PART VIII. TERMINATION OF COVERAGE
A. NOTICE OF TERMINATION.
   1. WHERE A SITE HAS BEEN FINALLY STABILIZED (SEE PART II FOR THE DEFINITION OF FINAL STABILIZATION) AND ALL STORMWATER DISCHARGES AUTHORIZED BY THIS PERMIT ARE ELIMINATED, THE PERMITTEE SHALL SUBMIT A COMPLETED NOTICE OF TERMINATION (DEP FORM 62-621.300(6)), SIGNED IN ACCORDANCE WITH PART VII.C. OF THIS PERMIT, WITHIN 14 DAYS OF FINAL STABILIZATION OF THE SITE TO TERMINATE COVERAGE UNDER THIS PERMIT.
   2. ELIMINATION OF STORMWATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY MEANS THAT ALL DISTURBED SOILS AT THE SITE HAVE BEEN FINALLY STABILIZED AND TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES HAVE BEEN REMOVED OR WILL BE REMOVED AT AN APPROPRIATE TIME, OR THAT ALL STORMWATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY FROM THE SITE THAT ARE AUTHORIZED BY THIS GENERIC PERMIT HAVE OTHERWISE BEEN ELIMINATED.
   3. FOR CONSTRUCTION ACTIVITIES WHERE THE OPERATOR CHANGES, THE EXISTING OPERATOR SHALL FILE AN NOT IN ACCORDANCE WITH THIS PART WITHIN 14 DAYS OF RELINQUISHING CONTROL OF THE PROJECT TO A NEW OPERATOR.

B. WHERE TO SUBMIT.
   1. A PERMITTEE SHALL SUBMIT A NOTICE OF TERMINATION EITHER ELECTRONICALLY OR BY PAPER COPY.
      A. THE DEPARTMENT ENCOURAGES THE ELECTRONIC SUBMISSION OF NOTES THROUGH THE NPDES STORMWATER PROGRAM'S ELECTRONIC PERMITTING APPLICATION AVAILABLE AT HTTP://WWW.DEP.STATE.FL.US/WATER/STORMWATER/NPDES/.
      B. IF THE OPERATOR CHOOSES TO SUBMIT THE NOT BY PAPER COPY, THE NOT SHALL BE SUBMITTED TO THE FOLLOWING ADDRESS:

      NPDES STORMWATER NOTICES CENTER, MS# 2510
      FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
      2600 BLAIR STONE ROAD
      TALLAHASSEE, FLORIDA 32399-2400

   2. PROJECTS THAT DISCHARGED STORMWATER ASSOCIATED WITH CONSTRUCTION ACTIVITY TO A MUNICIPAL SEPARATE STORM SEWER SYSTEM (MS4) SHALL SUBMIT A COPY OF THE NOT TO THE OPERATOR OF THE MS4.

Received Electronically
December 10, 201
South District

ECT Environmental Consulting & Technology, Inc.
707 East Third Ave., New Smyrna Beach, FL 32169
Phone: (386) 427-0694 Fax: (386) 427-0889

LAKE PLACID SOLAR

EROSION & SEDIMENT CONTROL NOTES

SCALE:	N/A
PROJECT NO.:	18-0487
PROJECT DATE:	12-2018

DESIGNED BY:	CRF
DRAWN BY:	KNG
CHECKED BY:	CRF & RJ
APPROVED BY:	CRF

0 150 300 600

REVISION:	1	DATE:	XX-XX-XXXX
REVISION:	2	DATE:	XX-XX-XXXX
REVISION:	3	DATE:	XX-XX-XXXX
REVISION:	4	DATE:	XX-XX-XXXX

EC-7

CHRIS R. FAGERSTROM LICENSE No. 63045 STATE OF FLORIDA PROFESSIONAL ENGINEER
Chris Fagerstrom, P.E. No. 63045
12-5-2018
Date

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