

SUBMIT BID TO:
PROCUREMENT SERVICES
UNIVERSITY OF FLORIDA
971 ELMORE DRIVE
PO BOX 115250
GAINESVILLE, FL 32611

Phone: (352) 392-1331 - FAX: (352) 392-8837

Web Address: <https://procurement.ufl.edu/>



INVITATION TO BID

Construction

Acknowledgment Form

Page 1 of 28 pages		BID WILL BE OPENED: May 26, 2022 at 3:00 PM local time and may not be withdrawn within 45 days after such date and time. Pre-bid: May 10, 2022 at 1:00 PM local time.		BID NO.: ITB22KO-135	
DATE: 4/26/2022		PROCUREMENT AGENT: KO		BID TITLE: Site Work at IFAS Dairy Unit in Hague, FL	
VENDOR NAME					
VENDOR MAILING ADDRESS		REASON FOR NOT SUBMITTING BID			
CITY - STATE - ZIP CODE		<p align="center">POSTING OF BID TABULATIONS</p> <p>Bid tabulations with intended award(s) will be posted electronically for review by interested parties at https://procurement.ufl.edu/ and will remain posted for a period of 72 hours excluding Saturdays, Sundays, or state holidays. Failure to file a protest in accordance with Board of Governors (BOG) Regulation 18.002 or failure to post the bond or other security as required in the BOG regulations 18.002 and 18.003(3), shall constitute a waiver of protest proceedings.</p>			
AREA CODE	TELEPHONE NO.				
	FAX NO.				
	WEB ADDRESS				
	EMAIL ADDRESS				

I certify that this bid is made without prior understanding, agreement, or connection with any corporation, firm or person submitting a bid for the same materials, supplies, or equipment and is in all respects fair and without collusion or fraud. I agree to abide by all conditions of this bid and certify that I am authorized to sign this bid for the vendor and that the vendor is in compliance with all the requirements of the Invitation to Bid, including but not limited to, certification requirements. In submitting a bid on behalf of the Board of Trustees, hereinafter known as the University, the vendor offers and agrees that if the bid is accepted the vendor will convey, sell, assign, or transfer to the University all rights, title and interest in and to all causes of action it may now or hereafter acquire under the Anti-trust laws of the United States and the University for price fixing relating to the particular commodities or services purchased or acquired by the University. At the University's discretion, such assignment shall be made and become effective at the time the purchasing agency tenders final payment to the vendor.

 AUTHORIZED SIGNATURE (MANUAL)

 NAME AND TITLE (TYPED)

GENERAL CONDITIONS

SEALED BIDS: All bid sheets and this form must be executed and submitted in a sealed envelope. (DO NOT INCLUDE MORE THAN ONE BID PER ENVELOPE.) The face of the envelope shall contain, in addition to the above address, the date, and time of the bid opening and the bid number. Bids not submitted on the attached bid form shall be rejected. All bids are subject to the conditions specified herein. Those which do not comply with these conditions are subject to rejection.

1. **EXECUTION OF BID:** Bid must contain an original manual signature of authorized representative in the space provided above. Bid must be typed or printed in ink. Use of erasable ink is not permitted. All corrections to prices made by vendor must be initialed.

2. **NO BID:** If not submitting a bid, respond by returning only this vendor acknowledgment form, marking it "NO BID", and explain the reason in the space provided above. Failure to respond to a procurement solicitation without giving justifiable reason for such failure, nonconformance to contract conditions, or other pertinent factors deemed reasonable and valid shall be cause for removal of the supplier's name from the bid mailing list. NOTE: To qualify as a respondent, vendor must submit a "NO BID", and it must be received no later than the stated bid opening date and hour.

3. **BID OPENING:** Shall be public, on the date, location and the time specified on the bid form. It is the vendor's responsibility to assure that the bid is delivered at the proper time and place of the bid opening. Bids which for any reason are not so delivered will not be considered. A bid may not be altered after opening of the bids. NOTE: Bid tabulations will be posted electronically at <https://procurement.ufl.edu/>. Bid tabulations will not be provided by telephone.

4. **PRICES, TERMS AND PAYMENT:** Firm prices shall be bid and will include all packing, handling, shipping charges, and delivery to the destination shown herein.

(a) **TAXES:** The University does not pay Federal Excise and Sales taxes on direct purchases of tangible personal property or services. The Florida Tax Exempt Number is 11-06-024056-57C. This exemption does not apply to purchases of tangible personal property or services made by vendors who use the tangible personal property or services in the performance of contracts for the improvement of University-owned real property as defined in Chapter 192, F.S.

(b) **DISCOUNTS:** Vendors are encouraged to reflect trade discounts in the unit prices quoted; however, vendors may offer a discount for prompt payment. Prompt payment discounts will not be considered in the bid award. However, every effort will be made to take the discount within the time offered.

(c) **MISTAKES:** Vendors are expected to examine the specifications, delivery schedule, bid prices, extensions, and all instructions pertaining to supplies and services. Failure to do so will be at vendor's risk. In case of a mistake in extensions the unit price will govern.

(d) **INVOICING AND PAYMENT:** Payment will be made by the University of Florida after the items awarded to a vendor have been received, inspected, and found to comply with award specifications, free of damage or defect and properly invoiced. All invoices shall bear the purchase order number. Payment for partial shipments shall not be made unless specified. An original invoice shall be submitted. Failure to follow these instructions may result in delay in processing invoices for payment. Payment shall be made in accordance with Section 215.422 (1) (2) F.S. VENDOR OMBUDSMAN: The University's vendor ombudsman, whose duties include acting as an advocate for vendors may be experiencing problems in obtaining payment from the University, may be contacted at 352-392-1241.

(e) **ANNUAL APPROPRIATIONS:** The University's performance and obligation to pay under any contract awarded is contingent upon an annual appropriation by the Legislature.

(f) **CONDITION AND PACKAGING:** It is understood and agreed that any item offered or shipped as a result of this bid shall be a new, current standard production model available at the time of this bid. All containers shall be suitable for storage or shipment, and all prices shall include standard commercial packaging.

(g) **SAFETY STANDARDS:** Unless otherwise stipulated in the bid, all manufactured items and fabricated assemblies shall comply with applicable requirements of Occupational Safety and Health Act and any standards hereunder.

5. **CONFLICT OF INTEREST:** The award hereunder is subject to the provisions of Chapter 112, F.S. All vendors must disclose with their bid the name of any officer, director, or agent who is also an employee of the University of Florida. Further, all vendors must disclose the name of any University employee who owns, directly or indirectly, an interest of five percent (5%) or more in the vendor's firm or any of its branches.

6. **AWARDS:** As the best interest of the University may require, the right is reserved to make award(s) by individual item, group of items, all or none or a combination thereof; to reject any and all bids or waive any minor irregularity or technicality in bids received. When it is determined there is no competition to the lowest responsible vendor, evaluation of other bids are not required. Vendors are cautioned to make no assumptions unless their bid has been evaluated as being responsive.

7. INTERPRETATIONS/DISPUTES: Any questions concerning conditions or specifications shall be directed in writing to Procurement Services. Inquiries must reference the date of bid opening and bid number. No interpretations shall be considered binding unless provided in writing by the University in response to requests in full compliance with this provision.

8. NOTICE OF BID PROTEST BONDING REQUIREMENT: Any person or entity who files an action protesting a decision or an intended decision pertaining to a competitive solicitation shall at the time of filing the formal protest, post with the University a bond payable to the University in an amount equal to: 10% of the estimated value of the protestor's bid or proposal; 10% of the estimated expenditure during the contract term; \$10,000.00; or whichever is less. The bond shall be conditioned upon the payment of all costs which may be adjudged against the person or entity filing the protest action. In lieu of a bond, the University may accept a cashier's check, bank official check or money order in the amount of the bond. **FAILURE OF THE PROTESTING PERSON OR ENTITY TO FILE THE REQUIRED BOND, CASHIER'S CHECK, BANK OFFICIAL CHECK OR MONEY ORDER AT THE TIME OF THE FILING THE FORMAL PROTEST SHALL RESULT IN DENIAL OF THE PROTEST.**

9. GOVERNMENTAL RESTRICTIONS: In the event any governmental restrictions may be imposed which would necessitate alteration of the material, quality, workmanship or performance of the items offered in this bid prior to their delivery, it shall be the responsibility of the successful vendor to notify the purchaser at once, indicating in writing the specific regulation which requires an alteration. The University reserves the right to accept any such alteration, including any price adjustments occasioned thereby, or to cancel the contract at no expense to the University.

10. LEGAL REQUIREMENTS: Applicable provision of all Federal, State, county and local laws, and of all ordinances, rules and regulations shall govern development, submittal and evaluation of all bids received in response hereto and shall govern any and all claims and disputes which may arise between person(s) submitting a bid response hereto and the University, by and through its officers, employees and authorized representatives, or any other person, natural or otherwise; and lack of knowledge by any vendor shall not constitute a cognizable defense against the legal effect thereof.

11. LOBBYING: Vendor is prohibited from using funds provided under any contract or purchase order for the purpose of lobbying the Legislature or any official, officer, commission, board, authority, council, committee, or department of the executive branch or the judicial branch of state government.

12. ADVERTISING: In submitting a bid, the vendor agrees not to use the results therefrom as a part of any commercial advertising. Vendor may not use the names, logos, or trademarks of the University, its employees, or affiliates without the prior written consent of the University.

13. ASSIGNMENT: Any contract or purchase order issued pursuant to this Invitation to Bid and the monies which may become due hereunder are not assignable except with the prior written approval of the purchaser.

14. LIABILITY: The vendor agrees to indemnify and save the University of Florida, the State of Florida and the Florida Board of Governors, their officers, agents, and employees harmless from any and all judgments, orders, awards, costs and expenses, including attorney's fees, and also all claims on account of damages to property, including loss of use thereof, or bodily injury (including death) which may be hereafter sustained by the vendor, its employees, its subcontractors, or the University of Florida, the State of Florida and the Florida Board of Governors, their officers, agents, or employees, or third persons, arising out of or in connection with any contract awarded and which are the result of the vendor's breach of contract or of the negligent acts of the vendor, its officers, agents, and employees. This clause does not apply to contracts between government agencies.

15. FACILITIES: The University reserves the right to inspect the vendor's facilities at any time with prior notice.

16. ADDITIONAL QUANTITIES: For a period not exceeding ninety (90) days from the date of acceptance of any offer by the University of Florida, the right is reserved to acquire additional quantities up to but not exceeding those shown on bid or the bid level at the prices bid in this invitation. If additional quantities are not acceptable, the bid sheets must be noted "BID IS FOR SPECIFIED QUANTITY ONLY".

17. SERVICE AND WARRANTY: Unless otherwise specified, the vendor shall define any warranty service and replacements that will be provided during and subsequent to this contract. Vendors must explain on an attached sheet to what extent warranty and service facilities are provided.

18. SAMPLES: Samples of items, when called for, must be furnished free of expense, on or before bid opening time and date, and if not destroyed, may upon request, be returned at the vendor's expense. Each individual sample must be labeled with vendor's name, manufacturer's brand name and number, bid number and item reference. Request for return of samples shall be accompanied by instructions which include shipping authorization and name of carrier and must be received with the bid. If instructions are not received within this time, the commodities shall be disposed of by the University.

19. INSPECTION, ACCEPTANCE AND TITLE: Inspection and acceptance will be at destination unless otherwise provided. Title and risk of loss or damage of all items shall be the responsibility of the contract supplier until accepted by the University, unless loss or damage results from negligence by the University. The contract supplier shall be responsible for filing, processing and collecting all damage claims. However, to assist him in the expeditious handling of damage claims, the University will:

- (a) Record any evidence of visible damage on all copies of the delivering carrier's Bill of Lading.

- (b) Report damage (Visible or Concealed) to the carrier and contract supplier confirming such reports in writing within 15 days of delivery, requesting that the carrier inspect the damaged merchandise.
- (c) Retain the item and its shipping container, including inner packing material until inspection is performed by the carrier, and disposition given by the contract supplier.
- (d) Provide the contract supplier with a copy of the carrier's Bill of Lading and damage inspection report.

20. PATENTS, COPYRIGHTS, TRADEMARKS, ROYALTIES and other Intellectual Property: The vendor, without exception, shall indemnify and save harmless the University and its employees from liability of any nature or kind, including cost and expenses for or on account of any copyrighted, patented, or unpatented invention, process, or article manufactured or used in the performance of the contract, including its use by the University of Florida. If the vendor uses any design, device, or materials covered by letters, patent or copyright, it is mutually agreed and understood without exception that the bid prices shall include all royalties or costs arising from the use of such design, device, or materials in any way involved in the work.

21. CONFLICT BETWEEN DOCUMENTS: If any terms and conditions contained within the documents that are a part of this ITB or resulting contract are in conflict with any other terms and conditions contained therein, then the various documents comprising this ITB or resulting contract, as applicable, shall govern in the following order of precedence: change order, purchase order, addenda, special conditions, general conditions, specifications, departmental description of work, and bid.

22. MANUFACTURERS' NAMES AND APPROVED EQUIVALENTS: Any manufacturer's names, trade names, brand names, information and/or catalog numbers listed in a specification are for information and not intended to limit competition. If bids are based on equivalent products, indicate on the bid form the manufacturer's name and number. Vendor shall submit with the bid, cuts, sketches, and descriptive literature, and/or complete specifications. Reference to literature submitted with a previous bid will not satisfy this provision. The vendor shall also explain in detail the reasons why the proposed equivalent will meet the specifications and not be considered an exception thereto. The University of Florida reserves the right to determine acceptance of item(s) as an approved equivalent. Bids which do not comply with these requirements are subject to rejection. Bids lacking any written indication of intent to quote an alternate brand will be received and considered in complete compliance with the specifications as listed on the bid form.

23. NONCONFORMANCE TO CONTRACT CONDITIONS: Items may be tested and/or inspected for compliance with specifications by any appropriate testing facilities. Should the items fail, the University may require the vendor to reimburse the University for costs incurred by the University in connection with the examination or testing. The data derived from any tests for compliance with specifications are public records and open to examination thereto in accordance with Chapter 119, F.S. Items delivered not conforming to specifications may be rejected and returned at vendor's expense. These items and items not delivered as per delivery data in bid and/or purchase order may result in vendor being found in default in which event any and all reprourement costs may be charged against the defaulting vendor. Any violation of these conditions may also result in the vendor's name being removed from the University of Florida's vendor file.

24. PUBLIC RECORDS: Any material submitted in response to this Invitation to Bid will become a public document pursuant to Section 119.07 F.S. This includes material which the responding vendor might consider to be confidential or a trade secret. Any claim of confidentiality is waived upon submission, effective after opening pursuant to Section 119.07 F.S.

25. DELIVERY: Unless actual date of delivery is specified (or if specified delivery cannot be met), show number of days required to make delivery after receipt of purchase order in space provided. Delivery time may become a basis for making an award (see Special Conditions). Delivery shall be within the normal working hours of the University of Florida, Monday through Friday, unless otherwise specified.

26. PUBLIC PRINTING - PREFERENCE GIVEN PRINTING WITHIN THE STATE: The University of Florida shall give preference to vendors located within the state when awarding contracts to have materials printed, whenever such printing can be done at no greater expense than, and at a level of quality comparable to, that obtainable from a vendor located outside of the state.

- (a) **CONTRACTS NOT TO BE SUBLET:** In accordance with Class B Printing Laws and Regulations "Printing shall be awarded only to printing firms. No contract shall be awarded to any broker, agent, or independent contractor offering printing manufactured by other firms or persons."
- (b) **DISQUALIFICATION OF VENDOR:** Reasonable grounds for believing that a vendor is involved in more than one bid for the same work will be cause for rejection of all bids in which such vendors are believed to be involved. Any or all bids will be rejected if there is reason to believe that collusion exists between vendors. Bids in which the prices obviously are unbalanced will be subject to rejection.
- (c) **TRADE CUSTOMS:** Current trade customs of the printing industry are recognized unless accepted by Special Conditions or Specifications herein.
- (d) **COMMUNICATIONS:** It is expected that all materials and proofs will be picked up and delivered by the printer or his representative, unless otherwise specified. Upon request, materials will be forwarded by registered mail.
- (e) **RETURN OF MATERIAL:** All copy, photos, artwork, and other materials supplied by the University of Florida must be handled carefully and returned in good condition upon completion of the job. Such return is a condition of the contract and payment will not be made until return is affected.

27. E-VERIFY COMPLIANCE. Agency is obligated to comply with the provisions of Section 448.095, Fla. Stat., "Employment Eligibility." Compliance with Section 448.095, Fla. Stat., includes, but is not limited to, utilization of the E-Verify System to verify the work authorization status of all newly hired employees. Vendor affirms and represents that it is registered with the E-Verify system and is using same, and will continue to use same as required by Section 448.095, Fla. Statute.

END OF SECTION

NOTE: ANY AND ALL SPECIAL CONDITIONS AND SPECIFICATIONS ATTACHED HERETO WHICH VARY FROM THE GENERAL CONDITIONS SHALL HAVE PRECEDENCE.

Bid Number: ITB22KO-135

**Title: Site Work at IFAS Dairy Unit in
Hague, FL**



AUTHORIZED REPRESENTATIVE**UF PROCUREMENT SERVICES:**

Karen Olitsky
 971 Elmore Drive / PO Box 115250
 Gainesville, FL 32611-5250
 (352) 294-1163
kolitsk@ufl.edu

NON-TECHNICAL SPECIFICATIONS TABLE OF CONTENTS**I. Bidding Conditions**

00020 Invitation to Bid
 00100 Instruction to Bidders
 00310 Bid Form
 00430 List of Subcontractors

II. General Terms and Conditions

<https://facilities.ufl.edu/wp-content/uploads/forms/contracts/GTC.pdf>

III. Division 0 Non-Technical Specifications

<https://facilities.ufl.edu/wp-content/uploads/forms/contracts/Div0NonTechSpecs.pdf>

IV. Division 1 Non-Technical Specifications

https://facilities.ufl.edu/wp-content/uploads/forms/contracts/Div1_NonTech_Specs_SEPT_2020.pdf

V. UF Design and Construction Standards

<https://facilities.ufl.edu/projects/forms-standards/design-construction-standards/>

VI. Standards, Policies, Regulations, Forms, Guides, Inspection & Closeout and References

<https://facilities.ufl.edu/projects/forms-standards/>

a. Other Forms

- Dig Permits: <https://www.facilitieservices.ufl.edu/departments/utilities/dig-permits/>
- Building Codes Enforcement Inspections: <https://www.ehs.ufl.edu/departments/facility-support-services/building-codes-enforcement/inspections/>
- Fire Plan Review and Inspection: <https://www.ehs.ufl.edu/departments/facility-support-services/fire-safety/>

00020 - INVITATION TO BID

The Invitation to Bid shall be in accordance with the University of Florida, Procurement Services "Invitation to Bid Acknowledgement Form" with all relevant information provided therein.

END OF SECTION

00100 - INSTRUCTIONS TO BIDDERS

1.1 RELATED SECTIONS

- A. Documents affecting the work of this Section include, but are not necessarily limited to, the General Terms & Conditions and other Sections in Divisions 0 and 1 of these Specifications.

1.2 THE WORK

PROJECT TITLE: Site Work at IFAS Dairy Unit in Hague, FL

1.3 SECURING DOCUMENTS

Copies of the proposed Contract Documents may be obtained from:

<https://procurement.ufl.edu/vendors/schedule-of-bids/>

1.4 BID FORM

To be considered responsive and responsible, make bids in accordance with the following:

- A. Make bids upon the forms provided, properly signed and with all items completed. Do not change the wording of the bid form and do not otherwise alter or add words to the bid form. Unauthorized conditions, limitations, or provisions attached to the bid may be cause for rejection of the bid.
- B. Include with bid a completed and signed Invitation to Bid Construction Acknowledgment Form.
- C. Include completed Section 00310 - Bid Form.
- D. Include list of subcontractors as described below in 1.7 Subcontracts.
- E. **Bids must be submitted no later than May 26, 2022 at 3:00PM, local time.** No bids received after the time fixed for receiving them will be considered. Late bids will be returned to the bidder unopened.
- F. Address bids to Karen Olitsky, Procurement Agent III, and deliver to:

University of Florida
Procurement Services
971 Elmore Drive / PO Box 115250
Gainesville, FL 32611-5250

Submit bid in a sealed envelope that includes the bid number, contractor name and date and

time of the bid opening on the outside of the envelope. Submit one (1) original bid and one (1) electronic copy on flash drive or CD/DVD. It is the sole responsibility of the bidder to see that bids are received on time. Faxed and/or emailed bids will not be accepted.

1.5 WITHDRAWAL OF BIDS

- A. A bidder may withdraw their bid, either personally or by written request, at any time prior to the scheduled time for opening bids.
- B. No bidder may withdraw their bid for a period of forty-five calendar days after the date set for opening thereof, and bids shall be subject to acceptance by the Owner during this period.

1.6 PROOF OF COMPETENCY AND QUALIFICATION OF BIDDERS

- A. A bidder may be required to furnish evidence, satisfactory to the Owner, that the bidder and the bidder's proposed subcontractors have sufficient means and experience in the types of work required to assure completion of the Contract in a satisfactory manner.
- B. A contract will be awarded only to a responsible bidder, qualified by experience and in a financial position to perform the work specified.
- C. If the bidder has not been pre-qualified with UF Procurement Services within the fiscal year (July 1 through June 30), the bidder may be required to submit the following evidence of eligibility:
 - 1. Evidence that bidder is licensed by the appropriate government agency to perform the work specified.
 - 2. Experience record showing bidder's training and experience in similar work.
 - 3. List a brief description of projects of similar size and/or complexity satisfactorily completed, with location, dates of contracts, names of contracts, and names and addresses of owners.

1.7 SUBCONTRACTS

If the Bidder intends to subcontract any of the Work:

- A. Each bidder shall furnish with its bid a list of all subcontractors for subcontracted scopes/packages of work valued at more than \$10,000.
- B. This list shall identify, for each subcontracted package in excess of \$10,000, the name and address of the proposed subcontractor and the approximate value of the subcontract.
- C. If the bidder does not intend to subcontract portions of the Work in amounts greater than \$10,000, then a statement to that effect shall be furnished with the bid.
- D. Each subcontractor performing work more than \$10,000 must present evidence of being qualified in and licensed for the applicable trade. Such proof of subcontractor licensure shall be provided by the successful bidder after award, but prior to commencement of Work.

1.8 PERFORMANCE AND PAYMENT BONDS

See General Terms & Conditions, Article 20.

1.9 BID DEPOSIT

Not required.

1.10 AWARD OR REJECTION OF BIDS

The Contract, if awarded, will be awarded to the responsible and responsive bidder who has proposed the lowest Contract Sum, subject to the owner's right to reject any or all bids and to waive informality and irregularity in the bids and in the bidding. Acceptance or rejection of any bid will be at the owner's sole discretion.

1.11 MANDATORY PRE-BID CONFERENCE:

A mandatory Pre-bid Conference will be held prior to the scheduled bid opening for the purpose of considering questions posed by bidders. The conference is open to interested bidders, prospective subcontractors, and any other interested parties. This conference will be held **May 10, 2022 at 1:00PM, local time at the IFAS Dairy Unit, 13200 NW 59th Drive, Gainesville, FL 32653.**

1.12 EXECUTION OF AGREEMENT

- A. A Purchase Order (PO) will be issued for purposes of fiscal encumbrance and payment. The PO itself serves as the form of contract.
- B. Upon notice of Bid Award, the bidder to whom the Contract is awarded shall deliver to UF those Certificates of Insurance and Payment & Performance Bonds required by the Contract Documents.
- C. Bonds and Certificates of Insurance shall be approved by UF before the successful bidder may proceed with the Work.

1.13 INTERPRETATION OF CONTRACT DOCUMENTS PRIOR TO BIDDING

- A. If any person contemplating submitting a bid for construction of the Work is in doubt as to the true meaning of any part of the Contract Documents, or finds discrepancies in or omissions from any part of the Contract Documents, they may submit a written request for interpretation thereof no later than **May 16, 2022 at 5:00PM**, local time, to Karen Olitsky, Procurement Agent III at kolitsk@ufl.edu. The person submitting the request shall be responsible for its prompt delivery.
- B. Interpretations or corrections of proposed Contract Documents will be made only by Addendum and will be available on the Procurement Services "Schedule of Bids" webpage <https://procurement.ufl.edu/vendors/schedule-of-bids/>. The Owner will not be responsible for any other explanations or interpretations of the proposed Contract Documents.

1.14 TIME OF COMPLETION:

- A. Successful Bidder hereby agrees that Work required by this Contract shall be commenced within ten (10) calendar days after issuance date of written Notice to Proceed; that all insurance and permits will be obtained; that all documents and notices will be filed; that all requirements as specified will be met; and that Work shall be prosecuted regularly, diligently and uninterruptedly at such rate of progress as will insure Substantial Completion of entire Project will be 9/2/2022, and shall be finally completed 9/9/2022.

END OF SECTION

00310 - BID FORMS**BID PROPOSAL**

FROM:

(Name of Bidder)

TO:

UNIVERSITY OF FLORIDA
 PROCUREMENT SERVICES
 971 Elmore Drive
 P.O. Box 115250
 Gainesville, Florida 32611-5250

The undersigned, hereinafter called "Bidder", having reviewed the Contract Documents for the Project entitled **ITB22KO-135 Site Work at IFAS Dairy Unit in Hague, FL** and having visited and thoroughly inspected the site of the proposed Project and familiarized himself/herself with all conditions affecting and governing the construction of said Project, hereby proposes to furnish all labor, materials, equipment and other items, facilities and services for the proper execution and completion of the Project, in strict compliance with the Contract Documents, Addenda, and all other Documents relating thereto on file in Procurement Services, and, if awarded the Contract, to complete the said Work within the time limits called for in the Documents and as stated herein, for the sums as enumerated on this and the following pages:

BASE BID:

Dollars

Figures: \$_____

ADDENDA:

Receipt of the following Addenda to the Construction Documents is acknowledged:

ADDENDUM #_____ Dated _____

ADDENDUM #_____ Dated _____

COMPLETION DATE:

All Work covered by the Bidding Documents and the foregoing Base Bid shall be completed and ready for Owner's occupancy as specified in the contract documents.

SIGNATURE:

I hereby certify that for all statements and amounts herein made on behalf of

(Name of Bidder)

a (Corporation) (Partnership) (Individual) organized and existing under the laws of the State of Florida, I have carefully prepared this Bid Proposal from Contract Documents described hereinbefore, I have examined Contract Documents and local conditions affecting execution of Work before submitting this Bid Proposal, I have full authority to make the statements and commitment herein and submit this Bid Proposal in (its) (their) behalf, and all statements are true and correct.

Signed and sealed this _____ day of _____, 2022.

(Signature of Bidder)

(Print Name)

(Title)

WITNESS:

(Signature of Witness)

(Print Name)

Address: _____

(City)

(State)

(Zip Code)

END OF SECTION

01010 – SCOPE OF WORK

This ITB is for all labor and materials required for site work, as described below and in Attachment A, at the UF IFAS Dairy Unit located at 13200 NW 59th Drive, Gainesville, FL 32653.

- Modify the existing wet stormwater management facility (pond) by excavating to expand the size and volume, elevate the perimeter berm elevations, cut and modify the existing concrete discharge flume, install a discharge structure and pipe, regrade stormwater ditches around the perimeter of the barn leading to the pond, replace the ditch culverts.
- Fill and compact the footprint of the proposed barn to be pad ready.
- Fill, compact, and pave the areas around the barn as shown in the plans.
- Erosion control with temporary and permanent stabilization
- Areas are shown in plans as “Not in Contract” (NIC). One NIC area is a concrete silage pad that is existing with no modifications proposed. The second NIC area is for a second barn. Both areas are NIC.
- The NIC area shown on the plans for the second barn is labeled as available for placement of pond excavation spoils that are not used for fill in other areas of the project.
- A Geotech Report (Attachment B) from site’s document archive is provided for general reference of the character of in situ soils. No borings were completed in the proposed excavation footprint.

END OF SECTION

UF IFAS HAGUE DAIRY BARN & POND EXPANSION

PROJECT INFORMATION

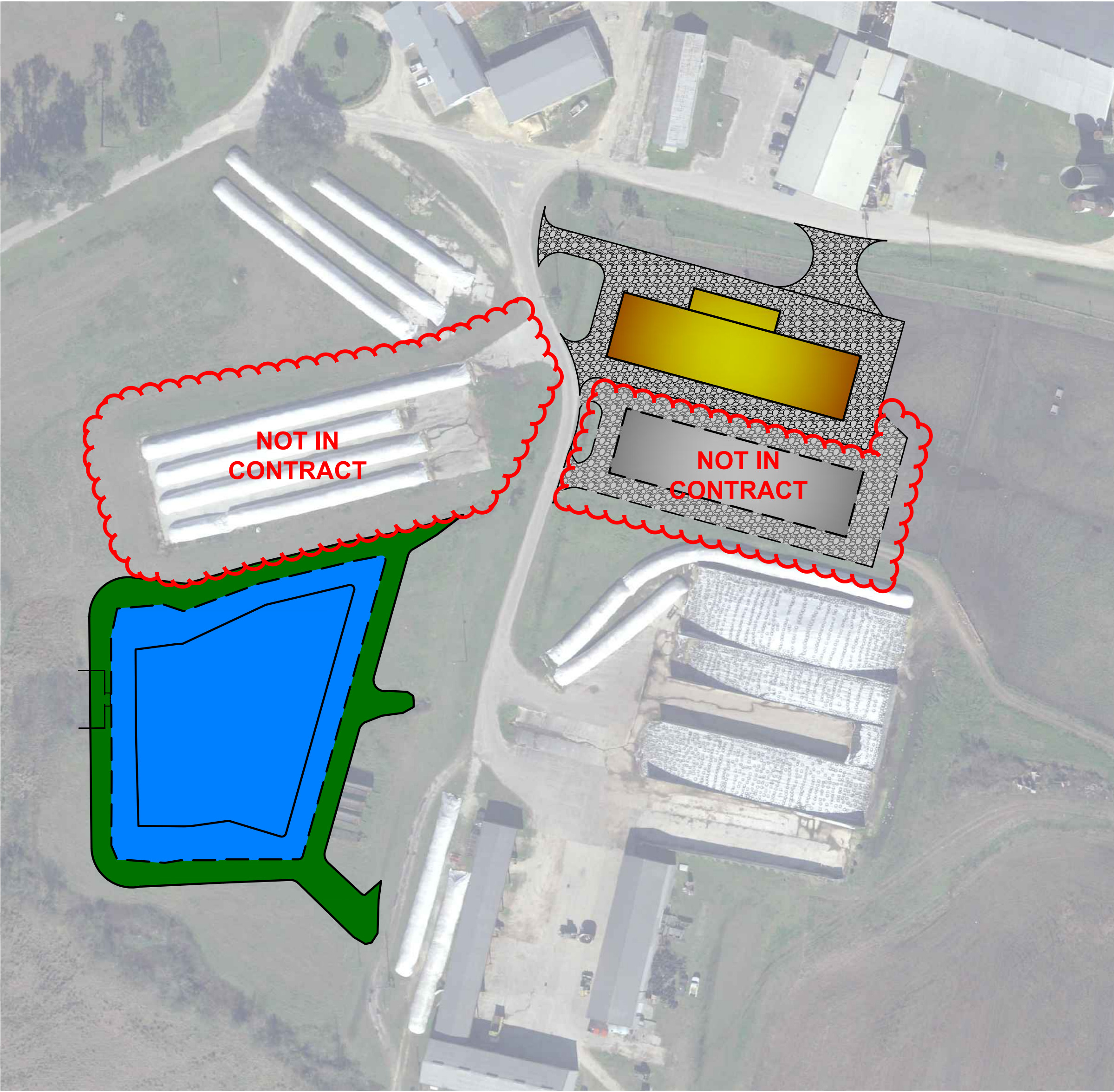
PROJECT NAME: UF IFAS HAGUE DAIRY CALF BARN
OWNER: IFAS FACILITIES PLANNING & OPERATIONS, UNIVERSITY OF FLORIDA

PROJECT LOCATION: HAGUE DAIRY
13200 NW 59TH DR
GAINESVILLE, FL 32653
PMF 26-27-28-000000-014030

CIVIL ENGINEER: CHRISTOPHER A. GMUER, PE
GMUER ENGINEERING, LLC
(352) 281-4928
2603 NW 13TH ST BOX 314
GAINESVILLE, FL 32609



LOCATION MAP



SHEET INDEX

- C-000 COVER & SHEET INDEX
- C-010 CONSTRUCTION NOTES, SWPPP, & LEGEND
- C-050 EROSION CONTROL & DEMOLITION PLAN
- C-100 BARN SITE & HORIZONTAL CONTROL PLAN
- C-200 MASTER DRAINAGE PLAN, SMF PROFILE, & DETAILS
- C-210 BARN GRADING & DRAINAGE PLAN
- C-211 POND GRADING & DRAINAGE PLAN

C-000	COVER & SHEET INDEX	UF IFAS HAGUE DAIRY BARN & POND EXPANSION	<div><div><div>CLIENT : UNIVERSITY OF FLORIDA IFAS FACILITIES PLANNING & OPERATIONS</div><div>DESIGN : C.A. GMUER, PE QUALITY CONTROL : C.A. GMUER, PE</div><div>SITE PLAN APP # TBD GEN PROJECT # 21-0023</div></div><div></div><div><div>ENGINEER OF RECORD : CHRISTOPHER A. GMUER, PE FL PE # 71599 2022-04-07</div><div>PERMITTING / DESIGN REVISIONS : 2021-09-09 60% PLANS TO IFAS FOR REVIEW 2021-10-29 65% IMPERVIOUS AREA EVALUATION 2021-12-16 80% PLANS FOR PDEP PERMITTING 2022-04-06 100% FOR PDEP RESUBMITTAL</div></div></div>	PRELIMINARY
			BUDGETING	



STORMWATER MINIMUM OPERATION AND MAINTENANCE STANDARDS

THE OPERATION AND MAINTENANCE ENTITY IS THE PROPERTY OWNER UNLESS OTHERWISE SPECIFIED.

A. NO CLEARING, MOWING OR REMOVAL OF NATIVE, NON-INVASIVE VEGETATION SHALL TAKE PLACE INTERIOR TO THE PEDESTRIAN PATH, EXCEPT AS REQUIRED TO MEET THE PARAMETERS SET FORTH IN THE STORMWATER PERMIT OR TO MAINTAIN INLET AND OUTFALL STRUCTURES.

B. IN ACCORDANCE WITH SECTION 373.416(2), F.S., UNLESS REVOKED OR ABANDONED, ALL STORMWATER MANAGEMENT SYSTEMS, DAMS, IMPOUNDMENTS, RESERVOIRS, APPURTENANT WORKS, OR WORKS PERMITTED UNDER PART IV OF CHAPTER 373, F.S., MUST BE OPERATED AND MAINTAINED IN PERPETUITY. THE OPERATION AND MAINTENANCE SHALL BE IN ACCORDANCE WITH THE DESIGNS, PLANS, CALCULATIONS, AND OTHER SPECIFICATIONS THAT ARE SUBMITTED WITH AN APPLICATION, APPROVED BY THE AGENCY, AND INCORPORATED AS A CONDITION INTO ANY PERMIT ISSUED.

C. UPON COMPLETION OF THE PERMITTED STORMWATER MANAGEMENT SYSTEMS, DAMS, RESERVOIRS, IMPOUNDMENTS, APPURTENANT WORK, OR WORKS, THE AGENCY SHALL HAVE PERIODIC INSPECTIONS MADE TO ENSURE THE PROJECT WAS CONSTRUCTED AND IS BEING OPERATED IN COMPLIANCE WITH THE TERMS AND CONDITIONS OF THE PERMIT, AND IN A MANNER THAT PROTECTS THE PUBLIC HEALTH AND SAFETY AND THE NATURAL RESOURCES OF THE STATE. NO PERSON SHALL REFUSE IMMEDIATE ENTRY OR ACCESS TO ANY AUTHORIZED REPRESENTATIVE OF THE DISTRICT OR DEP WHO REQUESTS ENTRY FOR PURPOSES OF SUCH INSPECTION AND PRESENTS APPROPRIATE CREDENTIALS.

D. NO CLEARING, MOWING OR REMOVAL OF NATIVE, NON-INVASIVE VEGETATION SHALL TAKE PLACE INTERIOR TO THE PEDESTRIAN PATH.

E. INSPECTIONS MAY BE PERFORMED BY AGENCY STAFF DURING AND AFTER CONSTRUCTION, WHEN NEEDED TO ENSURE A PROJECT IS BEING OPERATED AND MAINTAINED IN PERPETUITY. THE PERMIT MAY REQUIRE THE OPERATION AND MAINTENANCE ENTITY TO CONDUCT THE PERIODIC INSPECTIONS. THE REQUIRED INSPECTION SCHEDULE FOR A SPECIFIC PROJECT WILL BE SPECIFIED IN THE PERMIT.

F. SOME PROJECTS THAT DO NOT CONSIST OF OR INCLUDE A STORMWATER MANAGEMENT SYSTEM, DAM, IMPOUNDMENT, RESERVOIR, OR APPURTENANT WORK, WHETHER DESIGNED BY A REGISTERED PROFESSIONAL OR NOT, ALSO MAY BE REQUIRED IN THE PERMIT TO BE REGULARLY INSPECTED AND MONITORED TO ENSURE CONTINUED COMPLIANCE WITH PERMIT CONDITIONS AND THE FUNCTIONING OF THE PROJECT. THIS MAY INCLUDE INDIVIDUAL PERMITS ISSUED FOR ACTIVITIES AT A PRIVATE RESIDENTIAL SINGLE-FAMILY RESIDENCE. FOR EXAMPLE, A RESIDENTIAL FILL PAD MAY HAVE BEEN PERMITTED WITH SPECIFIC REQUIREMENTS FOR SLOPE DRAINAGE OR RUNOFF. A DOCK LOCATED IN WATERS WITH SENSITIVE RESOURCES MAY HAVE BEEN PERMITTED WITH CONDITIONS PROHIBITING MOORING IN CERTAIN LOCATIONS, LIMITING THE NUMBER OR SIZE OF BOATS TO BE MOORED AT THE DOCK, OR WITH REQUIREMENTS FOR HANDRAILING OR OTHER ASSOCIATED STRUCTURES. THE PERMIT WILL SPECIFY THE PERIODIC INSPECTIONS THAT WILL BE REQUIRED, AND HOW THE RESULTS OF THE INSPECTIONS ARE TO BE EITHER RETAINED BY THE PERMITTEE OR REPORTED TO THE AGENCY. EXAMPLES WHERE MONITORING AND REPORTING BY SUCH PERSONS MAY BE REQUIRED FOR SUCH ACTIVITIES ARE:

1. SINGLE-FAMILY DOCK (TO VERIFY THAT: HANDRAILS ARE CONSTRUCTED AND ARE MAINTAINED TO PREVENT MOORING OF VESSELS IN SHALLOW WATERS);
2. MULTI-SLIP DOCKING FACILITY (TO VERIFY MAINTENANCE OF MANATEE PROTECTION SIGNS, SEWAGE PUMP-OUT FACILITIES, OR OVERWATER FUELING OPERATION);
3. SINGLE-FAMILY LOT FILL (TO VERIFY LAWN GRADING AND SLOPING IS MAINTAINED TO REDUCE DISCHARGES OF NUTRIENTS FROM LAWN RUNOFF ENTERING SENSITIVE WATERS);
4. SEAWALLS OR RIP RAP (TO VERIFY INTEGRITY OF SYSTEM OR SHORELINE PLANTINGS);
5. LANDS WITHIN A CONSERVATION EASEMENTS (FOR ENCROACHMENTS, ALTERATIONS, OR EXOTICNUISANCE VEGETATION REMOVAL) IN ACCORDANCE WITH A PERMIT UNDER THIS CHAPTER;
6. MITIGATION SITES (TO DETERMINE COMPLIANCE WITH SUCCESS CRITERIA, INCLUDING THE STATUS OF EXOTIC SPECIES REMOVALS), AND OTHER DREDGINGS OR FILLING (FOR EXAMPLE, DREDGED MATERIAL SITES AND DAMS TO ENSURE FUNCTIONING AND STABILITY OF DIKES AND CONTROL STRUCTURES).

F. THE EFFICIENCY OF STORMWATER MANAGEMENT SYSTEMS, DAMS, IMPOUNDMENTS, AND MOST OTHER PROJECTS NORMALLY DECREASES OVER TIME WITHOUT PERIODIC MAINTENANCE. FOR EXAMPLE, THE DESTRUCTION IN THE FLOW CAPACITY OF A STORMWATER MANAGEMENT SYSTEM OFTEN CAN BE ATTRIBUTED TO PARTIAL BLOCKAGES OF ITS CONVEYANCE SYSTEM. ONCE FLOW CAPACITY IS COMPROMISED, FLOODING MAY RESULT. THEREFORE, OPERATION AND MAINTENANCE ENTITIES MUST PERFORM PERIODIC INSPECTIONS TO IDENTIFY IF THERE ARE ANY DEFICIENCIES IN STRUCTURAL INTEGRITY, DEGRADATION DUE TO INSUFFICIENT MAINTENANCE, OR IMPROPER OPERATION OF PROJECTS THAT MAY ENDANGER PUBLIC HEALTH, SAFETY, OR WELFARE, OR THE WATER RESOURCES. IF DEFICIENCIES ARE FOUND, THE OPERATION AND MAINTENANCE ENTITY WILL BE RESPONSIBLE FOR CORRECTING THE DEFICIENCIES SO THAT THE PROJECT IS RETURNED TO THE OPERATIONAL FUNCTIONING REQUIRED IN THE PERMIT AND CONTEMPLATED BY THE DESIGN OF THE PROJECT AS PERMITTED. THE CORRECTIONS MUST BE DONE A TIMELY MANNER TO PREVENT COMPROMISES TO FLOOD PROTECTION AND WATER QUALITY.

G. INSPECTION AND REPORTING FREQUENCIES WILL BE INCLUDED AS PERMIT CONDITIONS BASED ON SITE SPECIFIC OPERATIONAL AND MAINTENANCE REQUIREMENTS, CONSIDERING THINGS AS:

1. THE TYPE, NATURE, AND DESIGN OF THE DESIGN AND PERFORMANCE STANDARDS PROPOSED, INCLUDING ANY ALTERNATIVE DESIGNS SUCH AS PERVIOUS PAVEMENT, GREEN ROOFS, CISTERNS, MANAGED AQUATIC PLANT SYSTEMS, STORMWATER HARVESTING, WETLAND TREATMENT TRAINS, LOW IMPACT DESIGNS, ALUM OR POLYMER INJECTION SYSTEMS;
2. THE PROXIMITY OF RECEIVING WATERS CLASSIFIED AS OUTSTANDING FLORIDA WATERS IN RULE 62-302.700, F.A.C., OR IMPAIRED FOR CONSTITUENTS LIKELY TO BE CONTAINED IN DISCHARGES FROM THE PROJECT;
3. THE NATURE OF THE SITE, SUCH AS WHETHER IT IS PART OF A PORT OR LANDFILL, WHETHER IT WILL IMPOUND MORE THAN 40 ACRE-FEET OF WATER, OR WILL INCLUDE ABOVE GROUND IMPOUNDMENTS;
4. THE TOPOGRAPHY, RAINFALL PATTERNS, AND ADJACENT DEVELOPMENT SURROUNDING THE ACTIVITY SITE, INCLUDING ANY SPECIAL BASIN DESIGNATIONS WITHIN THE DISTRICT IN WHICH THE ACTIVITY IS LOCATED, AS IDENTIFIED IN PARAGRAPH 62-330.3011 (W), F.A.C.;
5. THE NATURE OF THE UNDERLYING SOILS, GEOLOGY, AND GROUNDWATER, AND HYDROLOGY;
6. THE POTENTIAL FOR CONSTRUCTION AND OPERATION OF THE PROJECT TO CAUSE HARM TO PUBLIC HEALTH, SAFETY, OR WELFARE, OR HARM TO WATER RESOURCES, WATER QUALITY STANDARDS, OR WATER QUALITY; AND
7. PRIOR COMPLIANCE HISTORY WITH THE PROPOSED DESIGN AND PERFORMANCE TYPE, INCLUDING WHETHER THE ACTIVITY CHARACTERISTICS ARE LIKELY TO POSE MORE THAN A MINIMAL RISK FOR HARM.

SPECIAL ATTENTION SHALL BE MADE DURING INSPECTIONS TO ENSURE THAT:

1. ALL EROSION IS CONTROLLED AND SOIL IS STABILIZED TO PREVENT SEDIMENT DISCHARGE TO WATERS IN THE STATE;
2. THE SYSTEM IS KEPT FREE OF DEBRIS, TRASH, GARBAGE, OILS AND GREASES, AND OTHER REFUSE;
3. STORMWATER MANAGEMENT SYSTEMS THAT INCLUDE OIL AND GREASE SEPARATORS, SKIMMERS, OR COLLECTION DEVICES ARE WORKING PROPERLY AND DO NOT ALLOW THE DISCHARGE OF OILS OR GREASES, OILS AND GREASES OR OTHER MATERIALS REMOVED FROM SUCH A DEVICE DURING ROUTINE MAINTENANCE SHALL BE DISPOSED OF AT A SANITARY LANDFILL OR BY OTHER LAWFUL MEANS; AND
4. ALL STRUCTURES WITHIN STORMWATER MANAGEMENT SYSTEMS HAVE NOT BECOME CLOGGED OR CHOKED WITH VEGETATIVE OR AQUATIC GROWTH TO SUCH AN EXTENT AS TO RENDER THEM INOPERABLE.

H. UNLESS OTHERWISE SPECIFIED IN THE PERMIT, THE OPERATION AND MAINTENANCE ENTITY MUST MAINTAIN A RECORD OF EACH INSPECTION, INCLUDING THE DATE OF INSPECTION, THE NAME AND CONTACT INFORMATION OF THE INSPECTOR, WHETHER THE SYSTEM WAS FUNCTIONING AS DESIGNED AND PERMITTED, AND MAKE SUCH RECORD AVAILABLE UPON REQUEST OF THE AGENCY, IN ACCORDANCE WITH THE REPORTING SECTION, BELOW.

I. THE INSPECTION AND PERMIT CONTAINED IN A PERMIT ISSUED UNDER PART IV OF CHAPTER 373, F.S., PRIOR TO OCTOBER 1, 2013, THE EFFECTIVE DATE OF CHAPTER 62-330, F.A.C., WHICH IMPLEMENTS SECTION 373.4141, F.S., SHALL CONTINUE TO BE FOLLOWED IN ACCORDANCE WITH THE EXISTING PERMIT UNLESS THE PERMITTEE OBTAINS A NEW PERMIT. IN A NEW PERMIT, THE PERMITTEE SHALL COMPLY WITH THE INSPECTION AND REPORTING REQUIREMENTS OF RULE 62-330.311, F.A.C., THESE NOTES, AND SECTION 12.4 OF THE ENVIRONMENTAL RESOURCE PERMIT APPLICANT'S HANDBOOK, VOLUME I (GENERAL AND ENVIRONMENTAL).

STORMWATER INSPECTION REPORTING

A. ALL FORMS REQUIRED FOR REPORTING CAN BE SUBMITTED TO THE REGIONAL AGENCY INTERNET SITE. IF THE PERMITTEE DOES NOT HAVE THAT SITE, THEY SHALL BE RESPONSIBLE FOR OBTAINING THE FORMS FROM THE RETAINING RECORDS OF THE INSPECTIONS AND FOR DELIVERING SUCH RECORDS WITHIN 30 DAYS OF REQUEST TO THE REQUESTING AGENCY, UNLESS A MORE RAPID DELIVERY IS REQUESTED FOR SUCH REASONS AS THE POTENTIAL FOR THE ACTIVITY HARM TO WATER QUALITY, WATER RESOURCES, PUBLIC HEALTH, OR PUBLIC SAFETY. WITHIN 30 DAYS OF ANY FAILURE OF A STORMWATER MANAGEMENT SYSTEM OR DEVIATION FROM THE PERMIT, A REPORT SHALL BE SUBMITTED ELECTRONICALLY OR IN WRITING TO THE AGENCY USING FORM 62-330.311 (1), "OPERATION AND MAINTENANCE INSPECTION CERTIFICATION"; DESCRIBING THE REMEDIAL ACTIONS TAKEN TO RESOLVE THE FAILURE OR DEVIATION.

C. THE OPERATION AND MAINTENANCE ENTITY OF A REGIONAL STORMWATER MANAGEMENT FACILITY MUST NOTIFY THE AGENCY ON AN ANNUAL BASIS, USING FORM 62-330.311(2), "REGIONAL STORMWATER MANAGEMENT SYSTEM ANNUAL REPORT," OF ALL NEW SYSTEMS AND THEIR ASSOCIATED STORMWATER VOLUMES THAT HAVE BEEN ALLOWED TO DISCHARGE STORMWATER INTO THE REGIONAL FACILITY, AND CONFIRMING THAT THE MAXIMUM ALLOWABLE TREATMENT VOLUME OF STORMWATER AUTHORIZED TO BE ACCEPTED BY THE REGIONAL STORMWATER MANAGEMENT FACILITY HAS NOT BEEN EXCEEDED.

D. A LISTING OF ALL THE FORMS THAT ARE INCORPORATED BY REFERENCE IN CHAPTER 62-330, F.A.C., IS CONTAINED IN APPENDIX C OF THE ERP APPLICANT'S HANDBOOK, VOLUME I. COPIES OF WHICH MAY BE OBTAINED FROM THE AGENCY, AS DESCRIBED IN APPENDIX A OF THAT VOLUME AND SUBSECTION 62-330.010(5), F.A.C.

EROSION CONTROL AND STABILIZATION

1. CONTRACTOR IS REQUIRED TO SUBMIT A COMPLETE NOI AND APPROPRIATE FEE TO SECURE A FDEP GENERIC PERMIT FOR STORMWATER EROSION AND SEDIMENTATION CONTROL ACTIVITY (E.C.S.P.) AT LEAST TWO DAYS BEFORE CONSTRUCTION BEGINS. A PERMIT IS REQUIRED FOR CONSTRUCTION ACTIVITIES THAT DISTURB ONE OR MORE ACRES OR IF THE PROJECT IS PART OF A LARGER DEVELOPMENT THAT WILL ULTIMATELY DISTURB ONE OR MORE ACRES.

2. PROJECTS THAT DISCHARGE STORMWATER TO AN MS4, A COPY OF THE NOI MUST ALSO BE SUBMITTED TO THE OPERATOR OF THE MS4.

3. THE CONTRACTOR IS ULTIMATELY RESPONSIBLE FOR OBTAINING PERMIT COVERAGE AND IMPLEMENTING APPROPRIATE POLLUTION PREVENTION TECHNIQUES TO MINIMIZE EROSION, SEDIMENTATION, AND DISCHARGE OF STORMWATER DISCHARGES DURING CONSTRUCTION. THE ENGINEER SHOULD NOT BE LISTED AS THE OPERATOR AS THEY DO NOT HAVE OPERATIONAL CONTROL OVER THE PROJECT.

4. WHEN THE OPERATOR CHANGES, THE NEW OPERATOR SHOULD OBTAIN PERMIT COVERAGE AT LEAST 2 DAYS BEFORE ASSUMING CONTROL OF THE PROJECT, AND THE PREVIOUS OPERATOR SHOULD FILE AN APPROVED STORMWATER NOTICE OF TERMINATION WITHIN 14 DAYS OF RELINQUISHING CONTROL OF THE PROJECT TO A NEW OPERATOR.

5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL EROSION AND SEDIMENTATION CONTROLS UNTIL THE CONTRIBUTING DISTURBED AREAS ARE STABILIZED.

6. ALL DISTURBED AND OPEN AREAS OF THE SITE SHALL BE SOODED UNLESS INDICATED OTHERWISE.

WARRANTIES

1. IF NOT SPECIFICALLY INDICATED IN THE CONTRACT DOCUMENTS, ALL IMPROVEMENTS SHALL BE WARRANTED BY THE CONTRACTOR TO THE OWNER FOR A PERIOD OF ONE YEAR FROM DATE OF ACCEPTANCE BY THE OWNER. THIS WARRANTY WILL ALSO EXTEND TO THE MAINTENANCE ENTITY OF ANY OTHER IMPROVEMENTS INCLUDING ROADS, SIDEWALKS, UTILITIES, STORM PIPING, ETC. OR TO THE EXTENT REQUIRED BY THEIR APPLICABLE DESIGN STANDARDS.

DESIGN ELEMENTS AND INFORMATION FURNISHED BY OTHERS

1. THE ENGINEER AND ITS CONSULTANTS PREPARED THESE PLANS AND DESIGN DOCUMENTS THROUGH THE USE OR RELIANCE UPON DESIGN ELEMENTS AND INFORMATION ORDINARILY OR CUSTOMARILY FURNISHED BY OTHERS, INCLUDING, BUT NOT LIMITED TO, SURVEYORS, GEOTECHNICAL ENGINEERS, ENVIRONMENTAL CONSULTANTS, ARCHITECTS, BUILDING SYSTEMS ENGINEERS, SPECIALTY CONTRACTORS, MANUFACTURERS, SUPPLIERS, AND THE PUBLISHERS OF TECHNICAL STANDARDS. THE ENGINEER SHALL NOT BE HELD RESPONSIBLE FOR DESIGN ERROR AND OMISSIONS RESULTING FROM THE QUALITY OF THIS INFORMATION.

2. ALL POINTS OF COORDINATION OR INTERFERENCE BETWEEN THESE PLANS AND DESIGN DOCUMENTS AND THE PLANS AND DESIGN DOCUMENTS OF OTHERS MUST BE COMPARED BY THE CONTRACTOR.

3. CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES BEFORE PROCURING MATERIALS AND INSTALLATION.

UTILITY LOCATES, RELOCATION, PROTECTION, AND TERMINATION

1. UTILITY LOCATES SHALL BE COMPLETED BY THE CONTRACTOR PRIOR TO THE INITIATION OF SITE CONSTRUCTION.

2. PROPOSED UTILITY TAPS AND CROSSINGS SHALL BE PHYSICALLY LOCATED AND VERIFIED BY THE CONTRACTOR AS SOON AS PRACTICABLE AND SHALL CONTACT THE ENGINEER IMMEDIATELY WITH ANY DISCREPANCIES OR CONFLICTS.

3. UTILITY RELOCATION, SUPPORT, PROTECTION, TERMINATION, CAPPING, AND REMOVAL SHALL BE COORDINATED BY THE CONTRACTOR WITH UTILITY COMPANIES. ADEQUATE TIME SHALL BE PROVIDED FOR PROPER COORDINATION AND TO MINIMIZE SERVICE INTERRUPTIONS.

4. CONTRACTOR IS RESPONSIBLE FOR PAYING ALL FEES AND CHARGES TO THE UTILITY COMPANY FOR THEIR SERVICES.

SAFETY AND TEMPORARY TRAFFIC CONTROL (MAINTENANCE OF TRAFFIC)

1. ALL SAFETY REGULATIONS AND PRACTICES SHALL BE ENFORCED BY THE CONTRACTOR THROUGHOUT THE DURATION OF THIS PROJECT. THIS ALSO INCLUDES THE TRAVELING PUBLIC. THE FOLLOWING IS A NOTICE TO THE CONTRACTOR AND DOES NOT IMPLY THAT THE OWNER OR ENGINEER WILL INSPECT OR ENFORCE SAFETY REGULATIONS.

2. LABOR SAFETY REGULATIONS SHALL CONFORM TO THE PROVISIONS SET FORTH BY OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) REGULATIONS.

3. ALL SURFACE CONSTRUCTION SHALL CONFORM TO THE PROVISIONS SET FORTH BY THE "TRENCH SAFETY ACT".

4. TEMPORARY TRAFFIC CONTROL (TTC) IS REQUIRED FOR ALL WORKS ON HIGHWAYS, ROADS, STREETS, BIKE LANES, SIDEWALKS AND SHALL HAVE A TTC PLAN. THE PLAN SHALL BE PREPARED BY A PROFESSIONAL ENGINEER THAT IS NOT ADVANCED NOT CERTIFIED AT THE COST OF THE CONTRACTOR. ALL WORK SHALL BE EXECUTED UNDER THE ESTABLISHED TTC PLAN AND THE REVIEWING AGENCY'S APPROVED PROCEDURES. THE PLAN AND WORK SHALL BE AT THE CONTRACTOR'S EXPENSE.

GENERAL AND MISCELLANEOUS NOTES

1. THESE PLANS, DESIGN DOCUMENTS, AND NOTES ARE NOT EXHAUSTIVE. ALL THE APPLICABLE CONSTRUCTION STANDARDS AND DETAILS THAT ARE LISTED, REFERENCED, OR IMPLIED ARE INCLUDED IN THE CONTRACT DOCUMENTS AND SHALL BE THE BASIS FOR THE CONTRACTOR'S OBLIGATION TO COMPLY WITH THEM.

2. IN THE EVENT THAT THE CONTRACT DOCUMENTS AND THE REVIEWING AGENCY REQUIREMENTS ARE NOT IN AGREEMENT, THE MOST STRINGENT SHALL GOVERN.

3. THE REPAIR OR DAMENAGEMENT ABOVE OR BELOW GROUND BY THE CONTRACTOR OR SUB-CONTRACTORS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. DAMAGE WILL BE IN THE OPINION OF THE OWNER, APPLICABLE AGENCY, OR ENGINEER. ALL REPAIRS SHALL BE MADE AT CONTRACTOR EXPENSE IN A MANNER SPECIFIED BY THE PARTICULAR ENTITY.

4. THE CONTRACTOR IS RESPONSIBLE FOR GRADING ALL PAVEMENT, SIDEWALKS, AND GRADING AROUND BUILDINGS TO DRAIN POSITIVELY. INTERSECTIONS SHALL BE TRANSITIONED TO PROVIDE SMOOTH DRIVING SURFACE WHILE MAINTAINING POSITIVE DRAINAGE.

5. CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY OBSERVED AREAS OF POOR DRAINAGE PRIOR TO PLACEMENT OF PAVEMENT OR FINISH GRADE.

6. ALL UNDERGROUND UTILITIES MUST BE INSTALLED, INSPECTED, AND TESTED PRIOR TO PAVEMENT BASE OR SIDEWALK INSTALLATION.

TREE PRESERVATION AND DEMOLITION

1. CONTRACTOR SHALL VERIFY AND PROTECT ALL EXISTING TREES AND NATURAL VEGETATION THAT ARE INDICATED TO REMAIN UNDISTURBED ON THE PROJECT.

2. TREE PROTECTION FENCING SHALL BE INSTALLED PRIOR TO ANY DEMOLITION.

3. ALL TREES NOT SPECIFICALLY SHOWN TO BE PRESERVED OR REMOVED SHALL CONFORMED WITH THE REVIEWING AGENCY AND THE OWNER. THE PROTECTION OR REMOVAL IS AT THE COST OF THE CONTRACTOR.

4. THE CONTRACTOR SHALL SUBMIT DEMOLITION SCHEDULE TO OWNER PRIOR TO PROCEEDING WITH DEMOLITION ACTIVITIES.

5. DISTURBED AREAS SHALL BE CLEARED AND GRUBBED TO REMOVE ALL ROOTS, MISCELLANEOUS VEGETATION, DELETERIOUS MATERIAL, DEBRIS, ETC.

6. SOME ITEMS TO BE REMOVED OR SALVAGED MAY NOT BE DEPCTED ON THE PLANS OR SURVEY. CONTRACTOR SHALL BE AWARE OF ALL EXISTING IMPROVEMENTS WITHIN THE CONSTRUCTION LIMITS AND CONFIRM AN INVENTORY WITH THE OWNER.

7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OR SALVAGE OF ALL EXISTING BUILDINGS, STRUCTURES, SLABS, CONCRETE, ASPHALT, DEBRIS PILES, SIGNS, ETC., AND THEIR APPURTENANCES UNLESS OTHERWISE NOTED. ALL ITEMS SHALL BE PROPERLY DISPOSED IN A LEGAL MANNER.

8. PROVIDE PROTECTION AS NECESSARY TO PREVENT DAMAGE TO EXISTING IMPROVEMENTS SHOWN IN THE PLANS TO REMAIN.

PERMITTING, CONSTRUCTION STANDARDS, SUBMITTALS, REQUESTS FOR INFORMATION, INSPECTIONS, TESTING, PUNCH LISTS, RECORD DRAWINGS, AND AS-BUILTS

1. SITE CLEARING AND DEMOLITION MAY NOT BE ALLOWED TO BEGIN UNTIL CERTAIN PERMITS HAVE BEEN ISSUED AND MAY REQUIRE PRE-CONSTRUCTION MEETINGS, INSPECTIONS, CLEARANCES. THESE PERMITS ARE TYPICALLY ISSUED BY THE APPLICABLE AGENCY AND THE REVIEWING AGENCY.

2. OTHER PERMITS ARE REQUIRED PRIOR TO COMPLETING OTHER SITE COMPONENTS SUCH AS THE UTILITY CONSTRUCTION PERMITS, DRIVEWAY CONNECTION PERMITS, ROW USE PERMITS, ETC.

3. CONTRACTOR SHALL OBTAIN FAMILIAR WITH AND OBTAINING ALL REQUIRED PERMITS, BONDS, TESTING, INSPECTIONS, CERTIFICATIONS, ETC. PRIOR TO AND DURING CONSTRUCTION (E.G. FDEP CDP, DEWATERING, MOT, WATERSEWER INSPECTIONS).

4. A COMPLETE SET OF PERMITTED DRAWINGS AND SPECIFICATIONS MUST BE MAINTAINED ON SITE AT ALL TIMES THAT THE CONSTRUCTION IS BEING PERFORMED.

5. THE CONTRACTOR IS RESPONSIBILITY TO VERIFY THE CONSTRUCTION STANDARDS APPLICABLE TO EACH PORTION OF THE PROJECT. A SUGGESTED LIST OF APPLICABLE STANDARDS TYPICALLY ACCOMPANY THIS NOTE ON THIS PLAN SHEET.

6. CONTRACTOR SHALL FURNISH SHOP DRAWINGS TO THE ENGINEER INDICATING MATERIALS AND MANNER OF INSTALLATION FOR ALL COMPONENTS OF THE PROJECT PRIOR TO PROCUREMENT OF MATERIALS AND INSTALLATION (E.G. PRECAST STRUCTURES, MANUFACTURED ITEMS). FAILURE TO OBTAIN APPROVAL BEFORE INSTALLATION MAY RESULT IN REMOVAL AND REPLACEMENT AT THE CONTRACTOR'S EXPENSE.

7. ALL REQUESTS FOR INFORMATION SHALL BE SUBMITTED TO THE ENGINEER FOR RESPONSE BEFORE COMMENCING THE RELATED WORK VIA THE OWNER'S CONSTRUCTION DOCUMENTATION PROCESS.

8. CONTRACTOR IS RESPONSIBLE FOR COMPILING A LIST INSPECTIONS AND FIELD VISITS DESIRED BY THE OWNER AND THE ENGINEER AND REASONABLY SCHEDULING THOSE INSPECTIONS.

9. CONTRACTOR IS RESPONSIBLE FOR VERIFYING AND COORDINATING ALL INSPECTIONS REQUIRED BY THE REVIEWING AGENCIES AS LISTED IN THE PERMITS, INSPECTOR'S REQUEST, OR IMPLIED BY THE DESIGN STANDARDS.

10. CONTRACTOR SHALL CONTRACT WITH AN INDEPENDENT TESTING LABORATORY TO PERFORM TESTING OF MATERIALS, SOILS, UTILITIES, ETC. THE TESTING SHALL BE IN ACCORDANCE WITH THE APPROVED PERMITS, CONSTRUCTION STANDARDS, INSPECTOR'S REQUEST, DESIGN RECORDS, AND STANDARD PAVING AND GRADING TESTING. THIS SHALL INCLUDE DENSITY TESTING IN ALL PAVEMENT AREAS, UTILITY TRENCH COMPACTION ESPECIALLY UNDER ROADS AREAS, CONCRETE, AND OTHER MATERIALS TESTING.

11. SHOULD ANY RETESTING BE REQUIRED DUE TO THE FAILURE OF ANY TESTS TO MEET THE REQUIREMENTS, THE CONTRACTOR IS RESPONSIBLE FOR ALL RETESTING COSTS AND ANY RECONSTRUCTION REQUIRED TO MEET THE TESTING REQUIREMENTS.

12. CONTRACTOR SHALL COORDINATE WITH THE ENGINEER THE SCHEDULE OF PUNCH LIST SITE VISITS WITH THE CONSTRUCTION SCHEDULE TO AVOID REPEAT VISITS. A TIMELINE OF ADDRESSING THE PUNCH LIST ITEMS SHALL BE PROVIDED IN A TIMELY MANNER. ANY DISPUTES SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER AND THE ENGINEER.

13. RECORD DRAWINGS ARE DEFINED AS NOTES AND OTHER DOCUMENTATION COLLECTED BY THE CONTRACTOR THROUGHOUT CONSTRUCTION AS IT RELATES TO INSTALLATION PROGRESS, FIELD CONDITIONS, MEANS, METHODS, DEVIATIONS, AND/OR CORRECTIONS TO THE CONTRACT DOCUMENTS. THE DOCUMENTATION MUST BE MADE AVAILABLE TO THE OWNER, ENGINEER, AND REVIEWING AGENCIES UPON REQUEST. RECORD DRAWINGS ARE NOT INTENDED TO BE EXHAUSTIVE. HOWEVER, VERIFICATION OF INSTALLED CONDITIONS CAN BE REQUESTED AT THE COST OF THE CONTRACTOR UTILIZING STANDARD METHODS.

14. THE CONTRACTOR SHALL PROVIDE A COMPLETE AS-BUILT INFORMATION TO THE OWNER, ENGINEER, AND REVIEWING AGENCIES AT THE COST OF THE CONTRACTOR.

15. AS-BUILTS ARE DEFINED AS A DRAWING PRODUCED BY A REGISTERED LAND SURVEYOR BASED ON FIELD MEASUREMENTS OF THE FINISHED SITE IMPROVEMENTS WITH ELEVATIONS, ELEVATIONS, AND DESCRIPTION OF IMPROVEMENTS. THEY SHOULD MEET REVIEWING AGENCIES REQUIREMENTS PER PERMIT AND CLOSED REQUIREMENTS. THEY SHOULD ALSO MEET THE OWNER'S NEED FOR LENDING, WARRANTY, AND OTHER REQUIREMENTS.

16. AS-BUILT INFORMATION AT A MINIMUM: BUILDING LOCATION AND FINISHED FLOOR ELEVATIONS, ACCESSIBLE ROUTE AND PARKING GRADES, PAVEMENT GRADE GRADES, GRAVITY STRUCTURE TOP ELEVATIONS AND PIPE SIZES AND INVERTS, PRESSURE SYSTEM FITTINGS AND VALVES, SAMPLING POINTS, STORMWATER FACILITY TOP AND BOTTOM PERIMETERS AND OTHER FEATURES, OUTFALL STRUCTURE DETAILS, ETC. AND OTHER LOCATIONS WHERE FIELD CONDITIONS DO NOT MATCH THE CONTRACT DOCUMENTS.

17. ADDITIONAL AS-BUILT INFORMATION MAY BE REQUIRED DURING CONSTRUCTION INSTALLATIONS AT WHICH CLEARANCE. THIS INCLUDES BUT IS NOT LIMITED TO PIPE CROSSINGS OF WATER MAINS WITH FEET OF LESS THAN 18 INCHES OF CLEARANCE OR WHEN PARALLEL UTILITIES WITH WATER MAINS HAVE LESS THAN 10 FEET OF CLEARANCE.

STANDARD ABBREVIATIONS

FL	FIRE HYDRANT	SW	SIDEWALK
FL	FIRE LINE	SE	SOUTH EAST
FM	FORCE MAIN	SY	SQUARE FEET
FO	FIBER OPTIC	SG	SWITCH GEAR
FP	FLOOD PLAIN	SP	SPACE
FT	FEET	SS	SANITARY SEWER
FUT	FUTURE	ST	STORM SEWER
FUT	FUTURIZED	STCO	STORM CLEANOUT
GV	GATE VALVE	STA	STATION
HC	HANDICAP	STD	STANDARD
HORIZ	HORIZONTAL	STL	STEEL
CIP	CAST-IN-PLACE	SW	SOUTH WEST
INV	INVERT	SY	SQUARE YARD
LF	LINEAR FEET	TBRC	TRAFFIC BEARING
LT	LEFT	TEL	RINGS & COVER
LA	LATITUDE	TEL	TELEPHONE
LONG	LONGITUDE	TX	TRANSFORMER
LV	LOW VOLTAGE	TV	TELEVISION
MAINT	MAINTENANCE	UP	UP OF WALL
MAS	MAXIMUM	UTL	TYPICAL
MES	MITERED END SECTION	UY	UTILITY
MIN	MINIMUM	VEH	VEHICLE
MO	MONTH	W	WEST
MU	MANHOLE	WM	WATER MAIN
MANU	MANHOLE ON UNIFORM TRAFFIC	WV	WATER SERVICE
DESIGN	DESIGN	YR	YEAR
N	NORTH		
N/A	NOT APPLICABLE		
WS	WATER SERVICE		
WW	WATER MAIN		
NIC	NOT IN CONTRACT		
NO	NUMBER		
NTS	NOT TO SCALE		
NC	NORTH WEST		
OC	ON CENTER		
PE	PROFESSIONAL ENGINEER		
POB	POINT OF BEGINNING		
POE	POINT OF ENDING		
PL	PROPERTY LINE		
PRM	PERMANENT REFERENCE		
MARKER	MARKER		
PSE	POUNDS PER SQUARE INCH		
PUB	PUBLIC UTILITY EASEMENT		
PUD	PLANNED URBAN DEVELOPMENT		
PVC	POLYVINYL CHLORIDE		
PMT	PAVEMENT		
RCF	REINFORCED CONCRETE PIPE		
REF	REFERENCE		
RWB	REDUCED PRESSURE ZONE		
RTWP	REDUCED PRESSURE ZONE		
BACKFLOW PREVENTER	BACKFLOW PREVENTER		
R	RIGHT		
RT	RIGHT		
S	SOUTH		

GENERAL LEGEND - SEE PLANS FOR ADDITIONAL CALLOUTS

—CABLE—	—CABLE—	EXISTING CABLE
—COM—	—COM—	EXISTING COMMUNICATIONS
—OHE—	—OHE—	EXISTING ELECTRIC OVERHEAD
—UGE—	—UGE—	EXISTING ELECTRIC UNDERGROUND
—FIBER—	—FIBER—	EXISTING FIBER OPTIC
—FM—	—FM—	EXISTING FORECMAIN
—GAS—	—GAS—	EXISTING GAS
—ROW—	—ROW—	EXISTING RECLAIMED WATER
—STORM—	—STORM—	EXISTING STORM
—TEL—	—TEL—	EXISTING TELEPHONE
—WM—	—WM—	EXISTING WATER
—CABLE—	—CABLE—	PROPOSED CABLE
—COM—	—COM—	PROPOSED COMMUNICATIONS
—OHE—	—OHE—	PROPOSED ELECTRIC OVERHEAD
—UGE—	—UGE—	PROPOSED ELECTRIC UNDERGROUND
—FIBER—	—FIBER—	PROPOSED FIBER OPTIC
—FIRE—	—FIRE—	PROPOSED FIRE
—FM—	—FM—	PROPOSED FORECMAIN
—GAS—	—GAS—	PROPOSED GAS
—ROW—	—ROW—	PROPOSED RECLAIMED WATER
—STORM—	—STORM—	PROPOSED STORM
—TEL—	—TEL—	PROPOSED TELEPHONE
—WM—	—WM—	PROPOSED WATER
—99—	—99—	EXISTING ELEVATION CONTOUR
—99—	—99—	PROPOSED ELEVATION CONTOUR
—99.99—	—99.99—	PROPOSED GRADE SPOT ELEVATION
—SILT—	—SILT—	SILT FENCE
—TREE—	—TREE—	TREE BARRICADE
—	—	SETBACK
—	—	BUFFER
—	—	PROPERTY BOUNDARY
—	—	EXISTING FENCE

STORMWATER POLLUTION PREVENTION PLAN

THE FOLLOWING STORMWATER POLLUTION PREVENTION PLAN (SWPPP) IS PREPARED IN CONFORMANCE WITH FDOT DESIGN MANUAL CHAPTER 320 AND THE FOLLOWING NARRATIVE CONTAINS REFERENCES TO THE FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, THE FDOT DESIGN STANDARDS, AND OTHER SHEETS OF THE CONSTRUCTION PLANS. THE FIRST SHEET OF THE CONSTRUCTION PLANS (C-000 COVER & SHEET INDEX) REFERENCES ALL THE OTHER COMPONENTS OF THE SWPPP. A COMPLETE STORMWATER POLLUTION PREVENTION PLAN INCLUDES SEVERAL ITEMS; THIS NARRATIVE DESCRIPTION, THE DOCUMENTS REFERENCED IN THIS NARRATIVE, THE CONTRACTOR'S APPROVED EROSION AND SEDIMENTATION CONTROL PLAN REQUIRED BY FDOT SPECIFICATION SECTION 104, AND REPORTS OF INSPECTIONS MADE DURING CONSTRUCTION.

1. SITE DESCRIPTION:

1.A. NATURE OF CONSTRUCTION ACTIVITY: THE PROJECT PROPOSES A CALF BARN AND ASSOCIATED STORMWATER MANAGEMENT FACILITY IMPROVEMENTS.

1.B. SEQUENCE OF MAJOR SOIL DISTURBING ACTIVITIES: IN THE SEDIMENT AND EROSION CONTROL PLAN, THE CONTRACTOR SHALL PROVIDE A DETAILED SEQUENCE OF CONSTRUCTION FOR ALL CONSTRUCTION ACTIVITIES. THE CONTRACTOR SHALL FOLLOW THE SEQUENCE OF MAJOR ACTIVITIES DESCRIBED BELOW, UNLESS THE CONTRACTOR PROPOSES A DIFFERENT SEQUENCE THAT IS EQUAL OR BETTER AT CONTROLLING EROSION AND TRAPPING SEDIMENT AND IS APPROVED BY THE ENGINEER.

1.B.1. INSTALL PERIMETER CONTROLS AND TREE PROTECTION BARRIERS BEFORE BEGINNING OTHER WORK FOR THE CONSTRUCTION PHASE. THESE MAY ONLY BE REMOVED AFTER ALL UPSTREAM AREAS ARE STABILIZED.

1.B.2. CLEARING AND GRUBBING, EARTHWORK, AND STORM DRAIN CONSTRUCTION FOR THE OUTFALL FROM THE STORMWATER MANAGEMENT FACILITIES (SMF).

1.B.3. CLEARING AND GRUBBING, EARTHWORK FOR STORMWATER MANAGEMENT FACILITY (SMF) CONSTRUCTION.

1.B.4. CLEARING AND GRUBBING, EARTHWORK FOR BUILDING FOUNDATION, WALLS, ETC CONSTRUCTION.

1.B.5. STORM DRAIN, UTILITY, AND ROADWAY UNDERDRAIN CONSTRUCTION - CONSTRUCT THE STORM DRAIN PIPE IN THE UPSTREAM DIRECTION.

1.B.6. EARTHWORK ASSOCIATED WITH THE CONSTRUCTION OF ROADWAY, GRAVITY WALL, CURB, SUBGRADE, BASE, PAVEMENT, AND SIDEWALK.

1.B.7. CONSTRUCT UNDERDRAIN IN POND BOTTOM.

1.B.8. FINAL GRADING AND PERMANENT STABILIZING OF STORMWATER MANAGEMENT FACILITIES (SMF) SHALL WAIT UNTIL THE COMPLETION OF ALL OTHER MAJOR SOIL DISTURBING ACTIVITIES.

1.C. AREA ESTIMATES: TOTAL PROPERTY AREA: 428.32 ACRES
TOTAL ESTIMATED AREA TO BE DISTURBED: 7.22 ACRES
TOTAL WETLAND AREA: 0 ACRES
TOTAL DISTURBED WETLAND AREA: 0 ACRES

1.D. RUNOFF DATA: PRE-DEVELOPMENT RUNOFF COEFFICIENT: POST-DEVELOPMENT RUNOFF COEFFICIENT: SOILS:

1.E. OUTFALL INFORMATION:

1.E.1. SMF: DRY DETENTION LOCATION: 29°46'38" N, 82°25'03" W DRAINAGE AREA: 16.90 ACRES RECEIVING WATER MAINS: NOT APPLICABLE

1.F. SITE MAP: THESE CONSTRUCTION PLANS SERVE AS THE SITE MAPS FOR THE PROJECT. THE LOCATION OF THE REQUIRED INFORMATION IS DESCRIBED BELOW. THE SHEET NUMBERS FOR THE PLAN SHEETS REFERENCED ARE IDENTIFIED ON C-000 COVER & SHEET INDEX OF THESE CONSTRUCTION PLANS.

1.F.1. DRAINAGE PATTERNS: SEE THE GRADING PLANS FOR DRAINAGE BASIN DIVIDES AND FLOW DIRECTIONS

1.F.2. APPROXIMATE SLOPES: SEE THE GRADING PLANS AND SMF CROSS SECTIONS FOR EXISTING AND PROPOSED SLOPES OF THE SITE

1.F.3. AREAS OF SOIL DISTURBANCE: SEE THE EROSION AND SEDIMENTATION CONTROL PLANS FOR THE AREAS TO BE DISTURBED - ANY AREAS WHERE PERMANENT FEATURES ARE SHOWN TO BE CONSTRUCTED ABOVE OR BELOW GROUND WILL BE DISTURBED.

1.F.4. AREAS NOT TO BE DISTURBED: SEE THE EROSION AND SEDIMENTATION CONTROL PLANS AND TREE PROTECTION PLANS FOR THE AREAS TO BE PROTECTED

1.F.5. LOCATIONS OF TEMPORARY CONTROLS: SEE THE EROSION AND SEDIMENTATION CONTROL PLANS

1.F.6. LOCATIONS OF PERMANENT CONTROLS: SEE THE STORMWATER MANAGEMENT FACILITY CROSS SECTIONS AND THE LANDSCAPE PLANS

1.F.7. AREAS TO BE STABILIZED: ALL DISTURBED AREAS MUST BE STABILIZED WITH PERMANENT CONTROLS

1.F.8. SURFACE WATERS: NO SURFACE WATER EXIST ON THE SITE OR DIRECTLY ADJACENT TO THE SITE

1.F.9. DISCHARGE POINTS: SEE THE EROSION AND SEDIMENTATION CONTROL PLANS FOR THE PROPOSED

1.G. RECEIVING WATERS: SEE OUTFALL INFORMATION ABOVE

2. CONTROLS:

2.A. EROSION AND SEDIMENT CONTROLS: THE SEQUENCE OF MAJOR SOIL DISTURBING ACTIVITIES LISTED ABOVE AND AS SHOWN IN THE EROSION AND SEDIMENTATION CONTROL PLAN IS BASED ON GENERAL PRACTICES OF SITE CONSTRUCTION. THE CONTRACTOR IS EXPECTED TO ADJUST AND MODIFY THE EROSION AND SEDIMENTATION CONTROL PLAN BASED ON THE ACTUAL PLANNED SEQUENCE OF CONSTRUCTION. THE CONTRACTOR SHALL ALSO MODIFY THE PLAN TO ADAPT TO SEASONAL VARIATIONS, CHANGES IN CONSTRUCTION ACTIVITIES, AND THE NEED FOR BETTER PRACTICES.

2.B. STABILIZATION PRACTICES: THE CONTRACTOR SHALL DESCRIBE THE STABILIZATION PRACTICES PROPOSED TO CONTROL EROSION. THE CONTRACTOR SHALL INITIATE STABILIZATION MEASURES AS SOON AS PRACTICAL, BUT IN NO CASE MORE THAN THE REQUIREMENTS OF THE PERMITTING AGENCIES. FOR THE FDEP EROSION PERMIT FOR CONSTRUCTION ACTIVITIES, THE MINIMUM IS 7 DAYS AFTER CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED. UNLESS OTHERWISE APPROVED BY AN ENGINEER, THE STABILIZATION PRACTICES SHALL INCLUDE AT LEAST THE FOLLOWING:

2.B.1. TEMPORARY: ARTIFICIAL COVERINGS IN ACCORDANCE WITH SPECIFICATION SECTION 104

2.B.2. PERMANENT: TURF AND SOIL IN ACCORDANCE WITH SPECIFICATION SECTION 104

2.B.3. ASPHALT OR CONCRETE SURFACE AS SHOWN IN THE CONSTRUCTION PLANS TREES, SHRUBS, SOIL, GRAVEL, ETC. AS SHOWN IN THE LANDSCAPE PLANS

2.C. STRUCTURAL PRACTICES: THE CONTRACTOR SHALL DESCRIBE IN THE EROSION AND SEDIMENTATION CONTROL PLAN THE PROPOSED STRUCTURAL PRACTICES TO CONTROL OR TRAP SEDIMENT AND EXPOSED AREAS OF THE SITE. SEDIMENT AND POLLUTANTS FROM EXPOSED AREAS OF THE SITE, SEDIMENT AND POLLUTANTS SHALL BE IN PLACE BEFORE DISTURBING SOIL UPSTREAM OF THE CONTROL. UNLESS OTHERWISE APPROVED BY THE ENGINEER, THE STRUCTURAL PRACTICES SHALL INCLUDE AT LEAST THE FOLLOWING:

2.C.1. TEMPORARY: SEDIMENT BARRIERS IN ACCORDANCE WITH DESIGN SPECIFICATION SECTION 104 AND FDEP EROSION AND SEDIMENT CONTROL DESIGNER AND REVIEWER MANUAL

2.C.2. PERMANENT: INLET PROTECTION IN ACCORDANCE WITH FDEP EROSION AND SEDIMENT CONTROL DESIGNER AND REVIEWER MANUAL, AND SPECIAL DETAILS SHOWN ON THE CONSTRUCTION PLANS

2.D. STORMWATER MANAGEMENT: SEDIMENT CONTAINMENT SYSTEM: THE PERMANENT STORMWATER MANAGEMENT FACILITIES CAN TEMPORARILY SERVE IN THIS CAPACITY DURING CONSTRUCTION - FINAL GRADING AND PERMANENT STABILIZING OF STORMWATER MANAGEMENT FACILITIES (SMF) SHALL WAIT UNTIL THE COMPLETION OF ALL OTHER MAJOR SOIL DISTURBING ACTIVITIES

2.E. ENERGY DISSIPATION DEVICES AS SHOWN IN THE CONSTRUCTION PLANS

2.F. CONCRETE LINED DITCHES AND CONCRETE FLUMES AS SHOWN THE THE CONSTRUCTION PLANS

2.G. PROPOSED STORMWATER CONVEYANCE SYSTEMS (E.G. PIPES, DITCHES, SWALES, FLUMES) ARE CONSTRUCTED TO CONVEY RUNOFF TO THE PROPOSED STORMWATER MANAGEMENT FACILITIES. THE FACILITIES HAVE BEEN PERMITTED WITH THE ASSOCIATED WATER MANAGEMENT DISTRICT, THE LOCAL PERMITTING AGENCIES, AND THE FDOT OR PUBLIC WORKS DEPARTMENT AS APPLICABLE. THE SYSTEMS COMPLY WITH THE APPLICABLE DESIGN STANDARDS OF THESE PERMITTING AGENCIES.

2.H. OTHER CONTROLS: THE CONTRACTOR SHALL DESCRIBE IN THE EROSION AND SEDIMENTATION CONTROL PLAN THE PROPOSED METHODS FOR EACH ACTIVITY LISTED BELOW

2.I. WASTE DISPOSAL METHODS TO PREVENT THE DISCHARGE OF SOLID WASTE AND BUILDING MATERIALS OFF-SITE, UNLESS OTHERWISE APPROVED BY AN ENGINEER, THE PROPOSED METHODS SHALL INCLUDE AT LEAST THE FOLLOWING: 1) PROVIDING LITTER CONTROL AND COLLECTION WITHIN THE PROJECT DURING CONSTRUCTION ACTIVITIES, 2) DISPOSING OF ALL FERTILIZER OR OTHER CHEMICAL CONTAINERS ACCORDING TO EPA'S STANDARD PRACTICES AS DETAILED BY THE MANUFACTURER, 3) DISPOSING OF SOLID MATERIALS INCLUDING BUILDING AND CONSTRUCTION MATERIALS OFF THE PROJECT SITE BUT NOT IN SURFACE WATERS, OR WETLANDS

2.J. OFF-SITE VEHICLE TRACKING & DUST CONTROL, UNLESS OTHERWISE APPROVED BY AN ENGINEER, THE PROPOSED METHODS SHALL INCLUDE AT LEAST THE FOLLOWING: 1) COVERING LOADED HAUL TRUCKS WITH TARPAILLONS, 2) REMOVING EXCESS DIRT FROM ROADS DAILY, 3) STABILIZING CONSTRUCTION ENTRANCES ACCORDING TO THE FDEP EROSION AND SEDIMENT CONTROL DESIGNER AND REVIEWER MANUAL, 4) USING ROADWAY SWEEPERS DURING DUST GENERATING ACTIVITIES SUCH AS EXCAVATION AND MILLING OPERATIONS.

2.K. STATE AND LOCAL REGULATIONS FOR WASTE DISPOSAL, SANITARY SEWER, OR SEPTIC TANK REGULATIONS

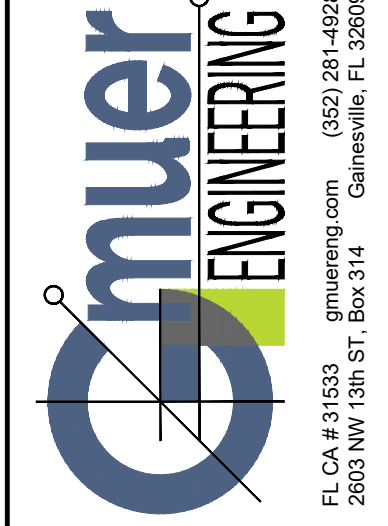
2.L. FERTILIZERS AND PESTICIDES: COMPLY WITH APPLICABLE SUBSECTION OF SECTION 982 OF THE FDOT



- NOTES:
1. TEMPORARY SILT FENCE SHALL BE INSTALLED PRIOR TO ANY GRADING WORK IN THE AREA TO BE PROTECTED. FENCE SHALL BE MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD AND REMOVED WITH THE FINAL STABILIZATION.
 2. FILTER FABRIC SHALL MEET THE REQUIREMENTS OF MATERIAL SPECIFICATION 592 GEOTEXTILE TABLE 1 OR 2, CLASS I, WITH EQUIVALENT OPENING SIZE OF AT LEAST 30 FOR NONWOVEN AND 50 FOR WOVEN.
 3. FENCE POSTS SHALL BE EITHER WOOD POST WITH A MINIMUM CROSS-SECTIONAL AREA OF 1.5" X 1.5" OR A STANDARD STEEL POST.
 4. SPLICE TWO FENCES TOGETHER AT POST LOCATIONS ACCORDING TO SPLICE DETAIL. PLACE THE END POST OF THE SECOND FENCE INSIDE THE END POST OF THE FIRST FENCE. ROTATE BOTH POSTS TOGETHER AT LEAST 180 DEGREES TO CREATE A TIGHT SEAL WITH THE FABRIC MATERIAL. CUT THE FABRIC NEAR THE BOTTOM OF THE POSTS TO ACCOMMODATE THE 6 INCH FLAP. DRIVE BOTH POSTS AND BURY THE FLAP. COMPACT BACKFILL WELL.

TYPICAL SILT FENCE DETAIL
NOT TO SCALE

PRELIMINARY	BUDGETING
PERMITTING / DESIGN REVISIONS :	
2021-09-09 60% PLANS TO IFAS FOR REVIEW	
2021-10-29 85% IMPROVED AREA EVALUATION	
2022-04-06 100% FOR PREP SUBMITTAL	
ENGINEER OF RECORD :	
CHRISTOPHER A. GIMMER, PE	
FL PE # 71599	
2022-04-07	
CLIENT : UNIVERSITY OF FLORIDA	
IFAS FACILITIES PLANNING & OPERATIONS	
DESIGN :	C.A. GIMMER, PE
QUALITY CONTROL :	C.A. GIMMER, PE
SITE PLAN APP #	TBD
SHEET #	21-0023
GEN PROJECT #	21-0023
UF IFAS HAGUE DAIRY BARN & POND EXPANSION	
EROSION CONTROL & DEMOLITION PLAN	
C-050	



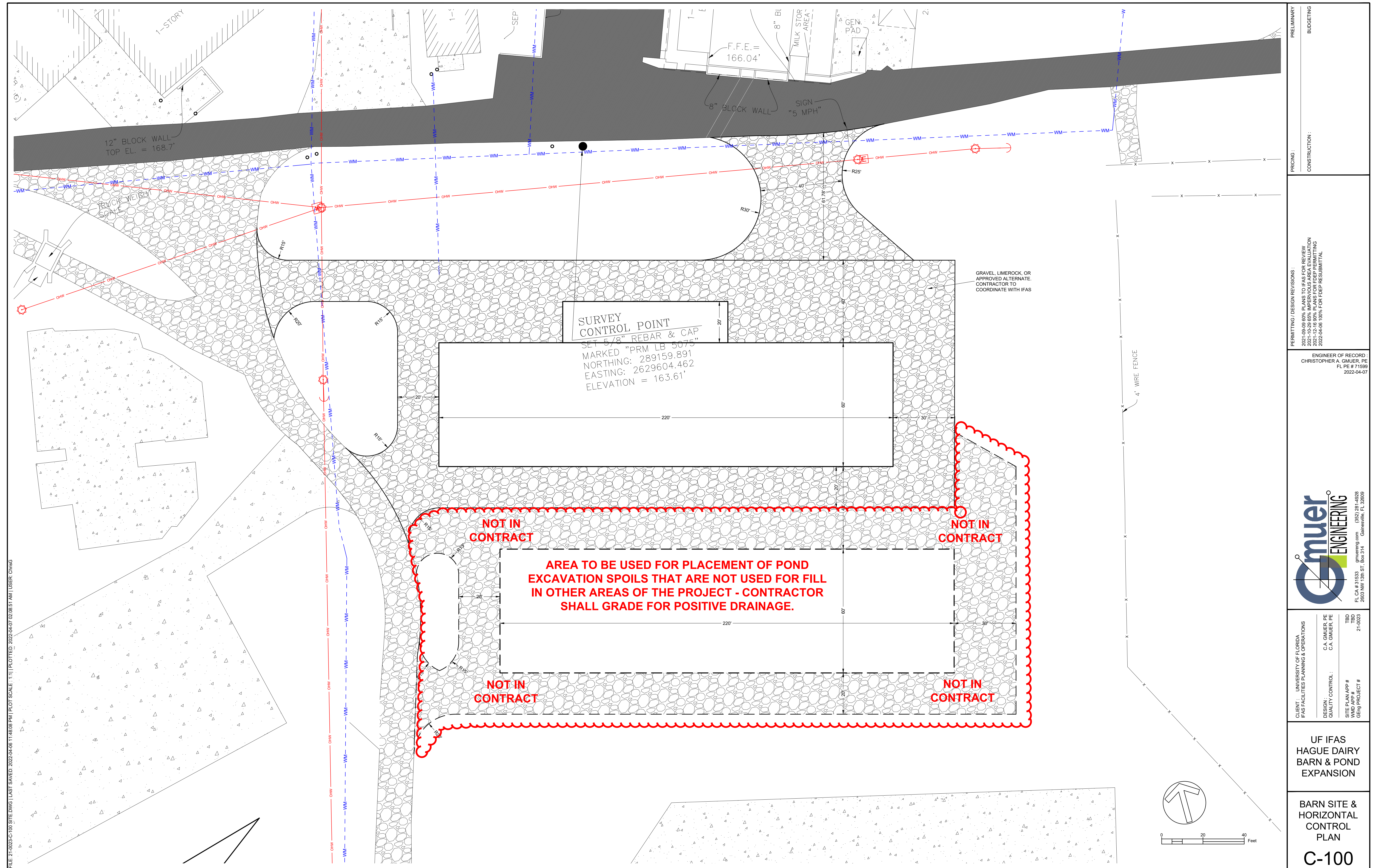
CLIENT :	UNIVERSITY OF FLORIDA
IFAS FACILITIES PLANNING & OPERATIONS	
DESIGN :	C.A. GIMMER, PE
QUALITY CONTROL :	C.A. GIMMER, PE
SITE PLAN APP #	TBD
SHEET #	21-0023
GEN PROJECT #	21-0023

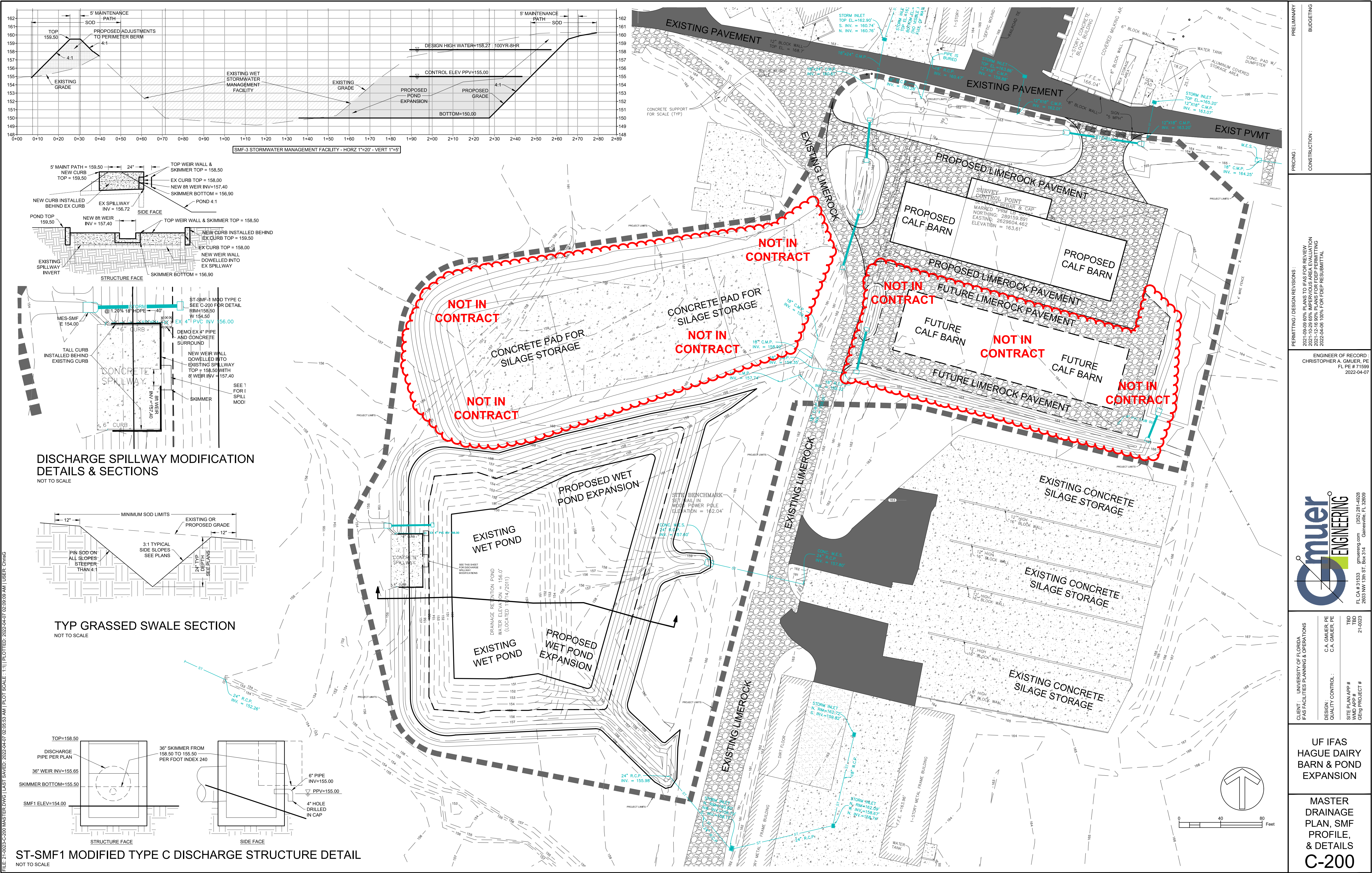
UF IFAS HAGUE DAIRY BARN & POND EXPANSION

EROSION CONTROL & DEMOLITION PLAN

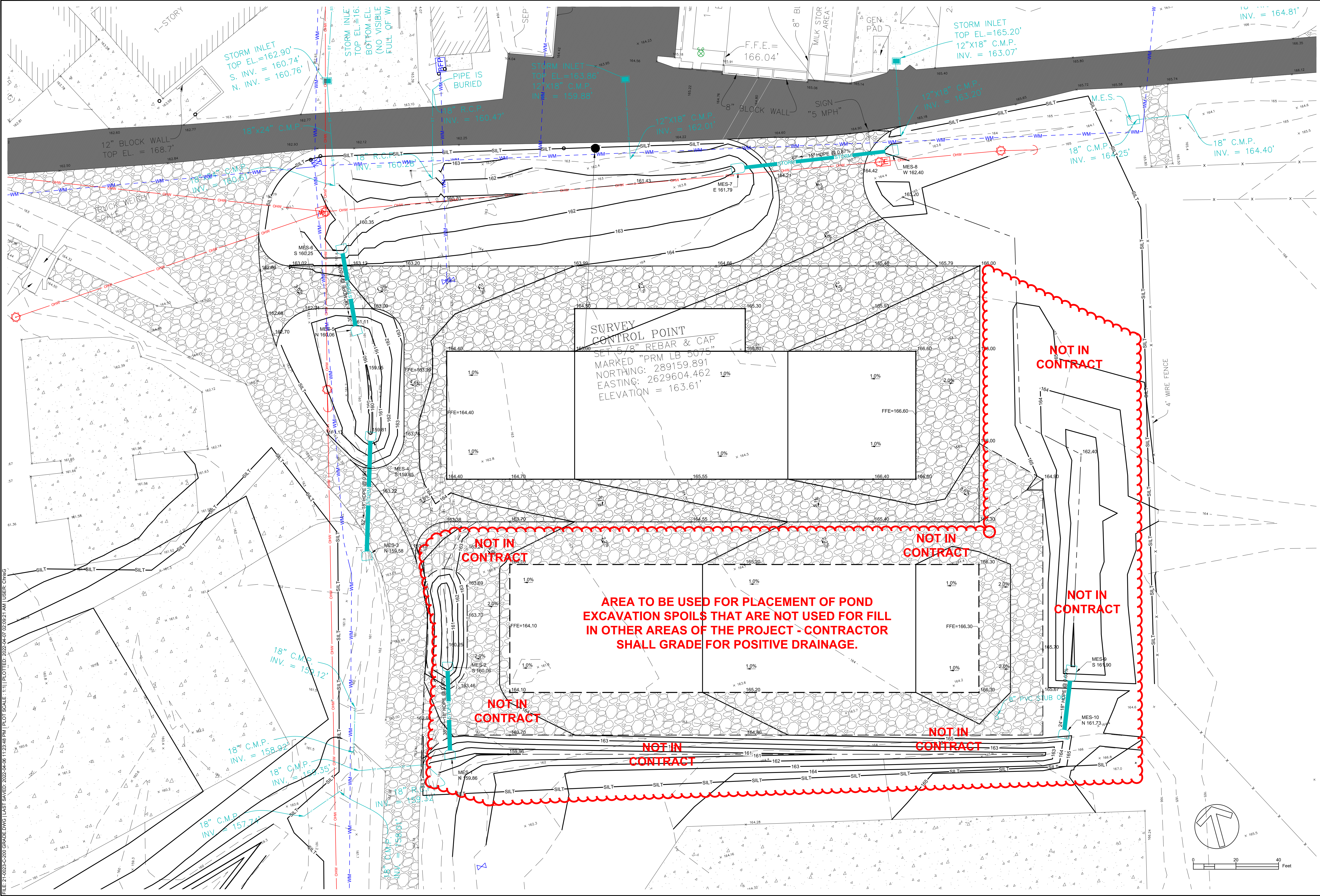
C-050

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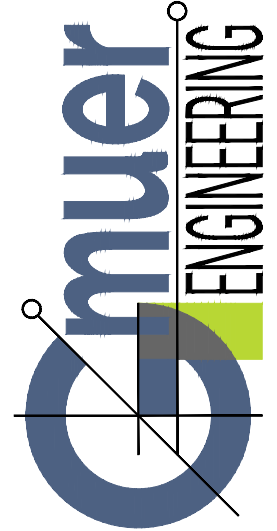


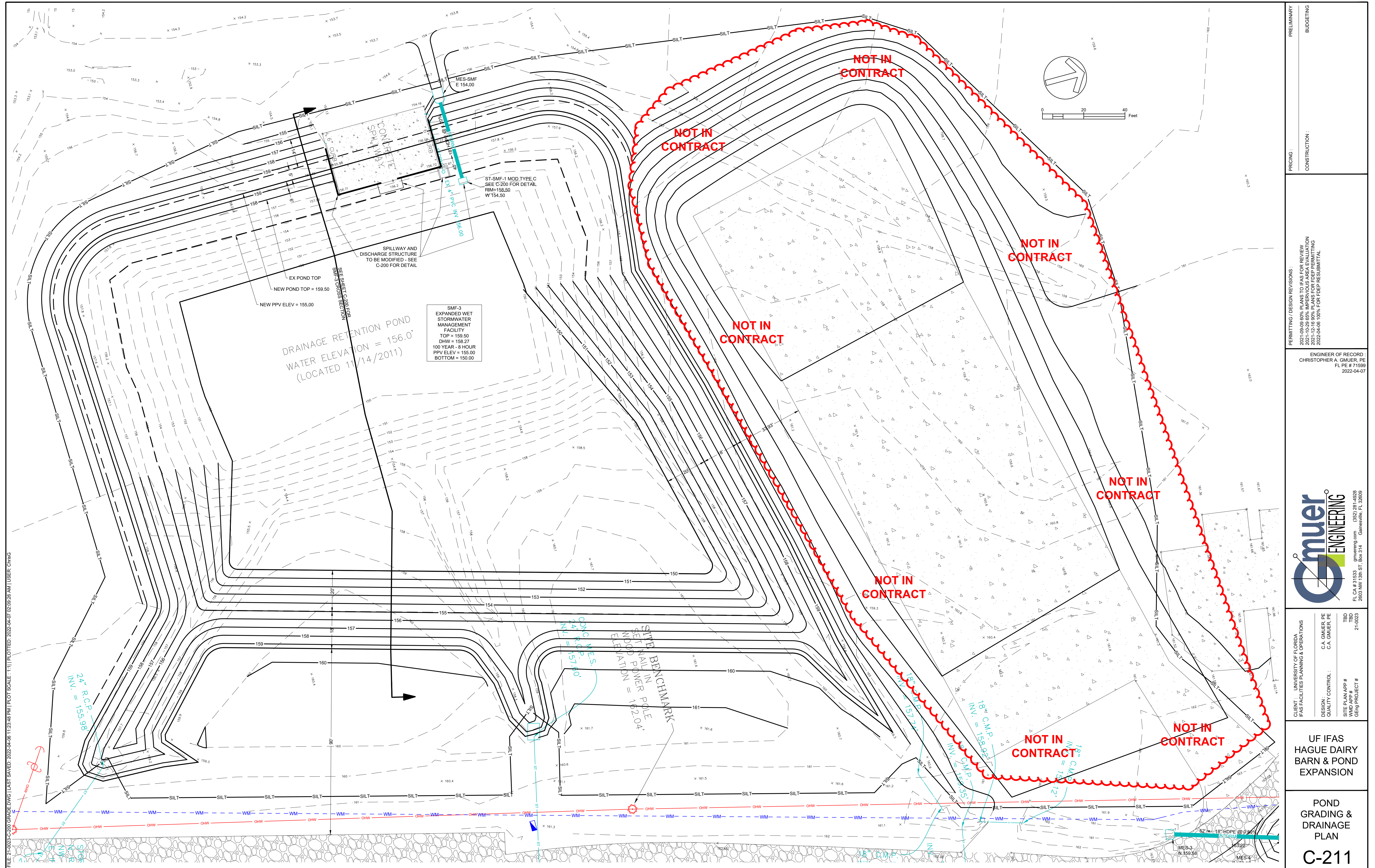


PRELIMINARY	BUDGETING	
	CONSTRUCTION :	
	PERMITTING / DESIGN REVISIONS :	
PRICING :	2021-09-09 65% PLANS TO IFAS FOR REVIEW	
	2021-10-29 65% IMPROVED AREA EVALUATION	
	2022-04-06 100% FOR IFAS SUBMITTAL	
ENGINEER OF RECORD :		
CHRISTOPHER A. GMIER, PE		
FL PE # 71599		
2022-04-07		
CLIENT : UNIVERSITY OF FLORIDA		
IFAS FACILITIES PLANNING & OPERATIONS		
DESIGN : C.A. GMIER, PE		
QUALITY CONTROL : C.A. GMIER, PE		
SITE PLAN APP #		
GEN PROJECT #		
UF IFAS		
HAGUE DAIRY		
BARN & POND		
EXPANSION		
MASTER		
DRAINAGE		
PLAN, SMF		
PROFILE,		
& DETAILS		
C-200		

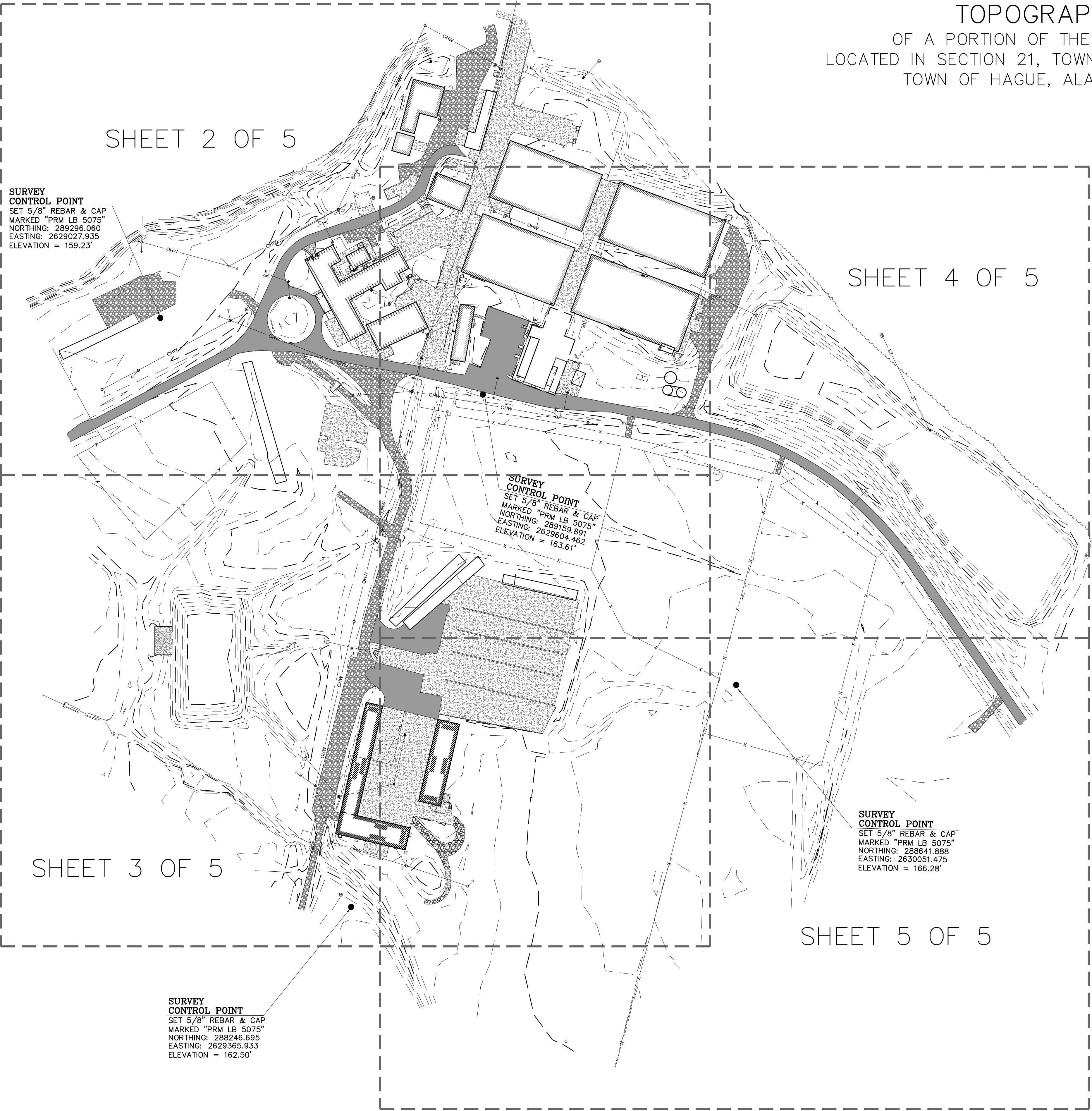
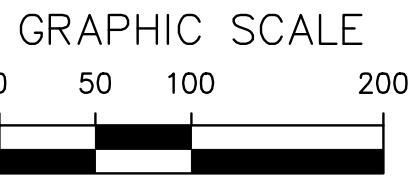


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PRELIMINARY	
BUDGETING	
CONSTRUCTION	
PERMITTING / DESIGN REVISIONS: 2021-09-09 65% PLANS TO IFAS FOR REVIEW 2021-10-29 65% IMPERVIOUS AREA EVALUATION 2022-01-11 65% IMPERVIOUS AREA EVALUATION 2022-04-08 100% FOR FDEP RESUBMITTAL	
ENGINEER OF RECORD: CHRISTOPHER A. GMIER, PE FL PE # 71599 2022-04-07	
 FL CA # 31533 gmiere.com (352) 281-4928 2803 NW 13th St, Box 314 Gainesville, FL 32609	
CLIENT: UNIVERSITY OF FLORIDA IFAS FACILITIES PLANNING & OPERATIONS	DESIGN: C.A. GMIER, PE QUALITY CONTROL: C.A. GMIER, PE
SITE PLAN APP # TBD GEN PROJECT # 21-0023	
UF IFAS HAGUE DAIRY BARN & POND EXPANSION	
BARN GRADING & DRAINAGE PLAN C-210	



TOPOGRAPHIC SURVEY
OF A PORTION OF THE UF-IFAS DAIRY FACILITY
LOCATED IN SECTION 21, TOWNSHIP 8 SOUTH, RANGE 19 EAST,
TOWN OF HAGUE, ALACHUA COUNTY, FLORIDA



LEGEND AND ABBREVIATIONS:

- SET 5/8" REBAR & CAP STAMPED "PRM LB 5075"
- ⊠ ELECTRIC BOX
- ⊞ WATER VALVE
- ⊞ WATER METER
- ⊞ WOOD POWER POLE
- ⊞ GUY ANCHOR
- ⊞ TELEPHONE BOX
- ⊞ MONITOR WELL
- ⊞ STORM SEWER INLET
- ⊞ IRRIGATION CONTROL VALVE
- ⊞ METAL SIGN (AS NOTED)
- BOLLARD
- SPOT ELEVATION (GROUND SURFACE)
- SPOT ELEVATION (HARD SURFACE)
- 160 --- CONTOUR LINE WITH ELEVATION (IN FEET)
- NAVD1988 = NORTH AMERICAN VERTICAL DATUM OF 1929
- F.F.E. = FINISH FLOOR ELEVATION
- INV. = INVERT
- R.C.P. = REINFORCED CONCRETE PIPE
- C.M.P. = CORRUGATED METAL PIPE
- D.I.P. = DUCTILE IRON PIPE
- V.C.P. = VITRIFIED CLAY PIPE
- PVC = POLYVINYL CHLORIDE PIPE
- CONC. = CONCRETE
- EL. = ELEVATION
- BLDG. = BUILDING
- GEN. = GENERATOR
- A/C = AIR CONDITIONER
- M.E.S. = MITERED END SECTION
- ASPHALT SURFACE
- LIMEROCK SURFACE
- CONCRETE SURFACE
- ST --- STORM SEWER LINE
- OHW --- OVERHEAD UTILITY LINES
- X --- FENCE LINE (TYPE AS NOTED)

SURVEYOR'S NOTES:

- COORDINATES SHOWN HEREON ARE BASED ON FLORIDA STATE PLANE NORTH GRID NAD 83 (2007) DATUM.
- VERTICAL DATUM IS BASED ON AN NGS BENCHMARK, BEING A BRASS DISK SET ON TOP OF A CONCRETE MONUMENT AND STAMPED "G-51", LOCATED AT THE NW CORNER OF NW 126TH AVENUE & NW 59TH DRIVE, ALACHUA COUNTY, FLORIDA, PUBLISHED ELEVATION = 166.32' (NAVD 1988).
- NO UNDERGROUND INSTALLATION OF UTILITIES OR IMPROVEMENTS HAVE BEEN LOCATED EXCEPT AS SHOWN.
- THE SURVEYOR HAS NO KNOWLEDGE OF UNDERGROUND FOUNDATIONS WHICH MAY ENCROACH.
- INSTRUMENTS OF RECORD REFLECTING EASEMENTS, RIGHTS-OF-WAY, AND OR OWNERSHIP WERE NOT FURNISHED TO THE SURVEYOR EXCEPT AS SHOWN. SEARCH OF THE PUBLIC RECORDS HAS NOT BEEN DONE BY THE SURVEYOR.
- FENCES, SYMBOLS, MONUMENTATION AND UTILITIES SHOWN HEREON MAY BE EXAGGERATED FOR PICTORIAL PURPOSES ONLY AND MAY NOT BE SHOWN TO SCALE.
- ADDITIONAL POINTS MAY BE FOUND BY TURNING ON THE NODE* AND Z-* LAYERS IN THE SUPPLIED DIGITAL FILE.
- THIS SURVEY IS 5 SHEETS TOTAL. EACH SHEET IS NOT COMPLETE WITHOUT THE OTHERS. SEE SHEETS 2 THROUGH 5 FOR DETAILED TOPOGRAPHIC INFORMATION.

Causseaux, Hewett, & Walpole, Inc.
Engineering • Surveying • Planning
6011 NW 1st Place, Gainesville, Florida 32607
Phone (352) 331-6776 • Fax (352) 331-2476 • www.chw-hcw.com
LB-5075



GRAPHIC SCALE
1" = 100'
BAR IS ONE INCH ON
ORIGINAL DRAWING
DO NOT SCALE FROM
THIS SHEET. ADJUST
SCALES ACCORDINGLY.

UNIVERSITY OF FLORIDA INSTITUTE OF
FOOD AND AGRICULTURAL SCIENCES

TECHNICAL	DATE	06-28-2011
ASHT/RC	REVISION DATE	11-07-2011
RM/DR	CHECKED BY	SAH
FIELD BOOK & PAGE	392 & 394	

REVISION NOTE 11/14/2011: UPDATED TOPOGRAPHY OF RETENTION PONDS
AARON H. HICKMAN
This map prepared by:
Certificate of Authorization No. LB 5075
NOT VALID WITHOUT THE SIGNATURE AND
ORIGINAL RAISED SEAL OF A FLORIDA
LICENSED SURVEYOR AND MAPPER
Professional Surveyor & Mapper Fla. License No. 6791

TOPOGRAPHIC SURVEY
OF A PORTION OF THE UF-IFAS DAIRY FACILITY
LOCATED IN SECTION 21, TOWNSHIP 8 SOUTH, RANGE 19 EAST,
TOWN OF HAGUE, ALACHUA COUNTY, FLORIDA

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 - ⊠ STORM SEWER INLET
 - ⊠ IRRIGATION CONTROL VALVE
 - ⊠ METAL SIGN (AS NOTED)
 - BOLLARD
 - ×160.0 SPOT ELEVATION (GROUND SURFACE)
 - ×160.00 SPOT ELEVATION (HARD SURFACE)

- R.C.P. = REINFORCED CONCRETE PIPE
 - C.M.P. = CORRUGATED METAL PIPE
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 - X = FENCE LINE (TYPE AS NOTED)
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F.F.E. = FINISH FLOOR ELEVATION
INV. = INVERT
M.E.S. = MITERED END SECTION
H.D.P.E. = HIGH DENSITY POLY ETHYLENE

CONTOUR LINE WITH ELEVATION (IN FEET)

SURVEYOR'S NOTES:

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- THIS SURVEY IS 5 SHEETS TOTAL. EACH SHEET IS NOT COMPLETE WITHOUT THE OTHERS. SEE SHEET 1 OF 5 FOR ADDITIONAL SURVEYOR'S NOTES.



GRAPHIC SCALE
0 20 40 80

Causseaux, Hewett, & Walpole, Inc.

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6011 NW 1st Place, Gainesville, Florida 32607
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1" = 40'

THIS SCALE
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ORIGINAL DRAWING
DO NOT SCALE
FROM THIS SHEET
FOR ANY OTHER
SCALE PURPOSES.

UNIVERSITY OF FLORIDA INSTITUTE OF
FOOD AND AGRICULTURAL SCIENCES

PROJECT NO. 11-0166
392 & 394

DATE: 06-28-2011
REVISION DATE: 11-07-2011
CHECKED BY: SAH
FIELD BOOK & PAGE: 392 & 394

PROJECT NO. 11-0166
392 & 394

This map prepared by:
AARON H. HICKMAN
Certificate of Authorization No. LB 5075
NOT VALID WITHOUT THE SIGNATURE AND
ORIGINAL RAISED SEAL OF A FLORIDA
LICENSED SURVEYOR AND MAPPER

DATE: 06-28-2011
REVISION DATE: 11-07-2011
CHECKED BY: SAH
FIELD BOOK & PAGE: 392 & 394

PROJECT NO. 11-0166
392 & 394

REVISION NOTE 11/14/2011: UPDATED TOPOGRAPHY OF RETENTION PONDS

SCALE: 1" = 40'

DATE: 06-28-2011
REVISION DATE: 11-07-2011
CHECKED BY: SAH
FIELD BOOK & PAGE: 392 & 394

PROJECT NO. 11-0166
392 & 394



SCALE:
 $1'' = 40'$

VERIFY SCALE
BAR IS ONE INCH ON
ORIGINAL DRAWING

0 1"

IF NOT ONE INCH ON
THIS SHEET, ADJUST
SCALES ACCORDINGLY.

UNIVERSITY OF FLORIDA INSTITUTE OF
FOOD AND AGRICULTURAL SCIENCES

CERTIFIED TO:

SURVEY DATE:	06-28-2011
REVISION DATE:	11-07-2011
PROJECT NUMBER:	11-0166

TECHNICIAN:	AHH
CREW CHIEF:	RM/DR
CHECKED BY:	SAH
FIELD BOOK & PAGE:	392 & 394

MAN
OF 5
License No. 6791

AARON H. HICK
SEE SHEET 1 OF 1
Surveyor & Mapper Field

by: L.B. 5075
NATURE AND
FLORIDA
MAPPER

This map prepared

SHEET NO.: 3 OF 5

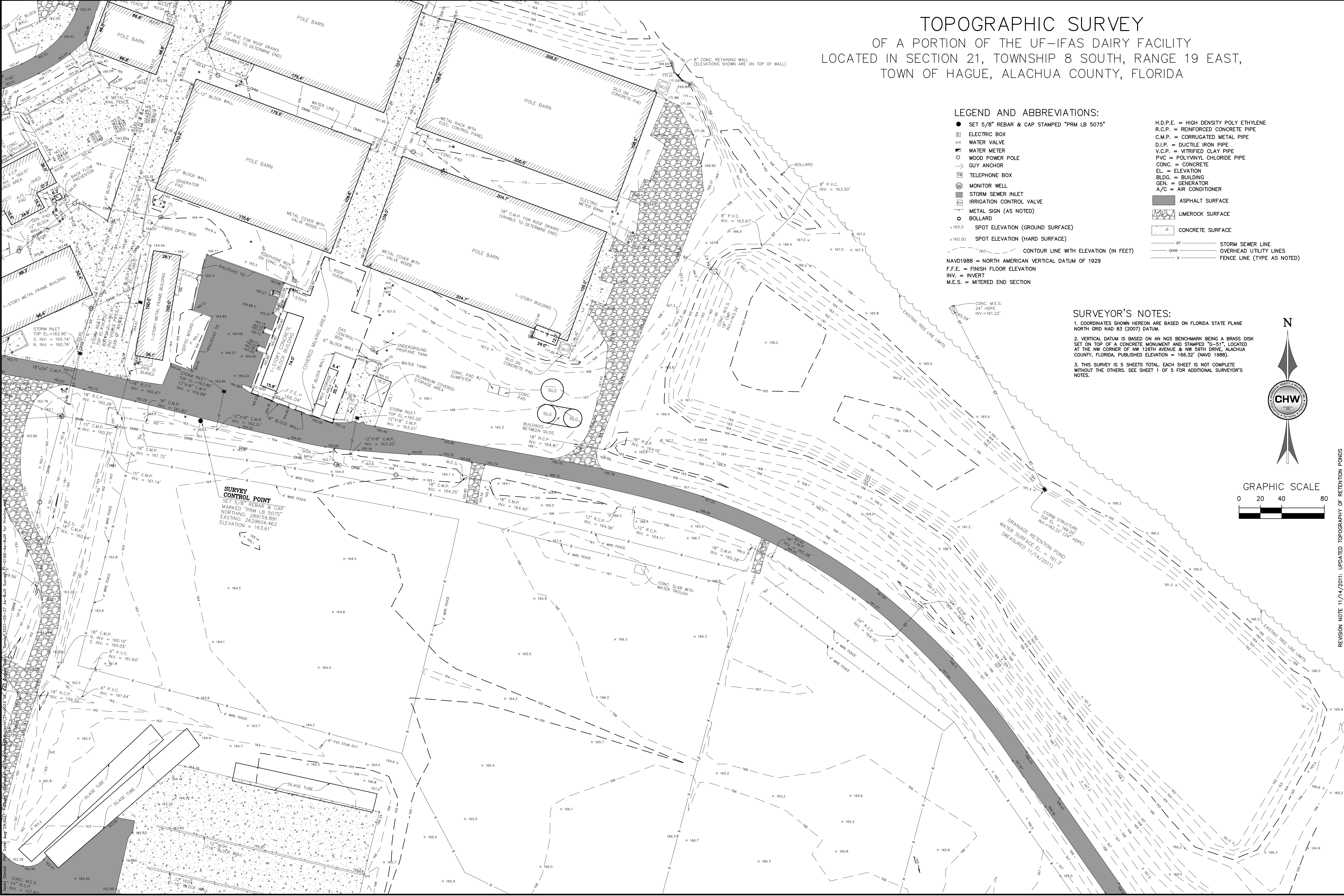
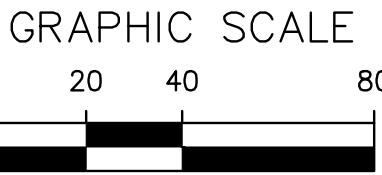
TOPOGRAPHIC SURVEY
OF A PORTION OF THE UF-IFAS DAIRY FACILITY
LOCATED IN SECTION 21, TOWNSHIP 8 SOUTH, RANGE 19 EAST,
TOWN OF HAGUE, ALACHUA COUNTY, FLORIDA

LEGEND AND ABBREVIATIONS:

- SET 5/8" REBAR & CAP STAMPED "PRM LB 5075"
- ⊠ ELECTRIC BOX
- ⊠ WATER VALVE
- ⊠ WATER METER
- ⊠ WOOD POWER POLE
- ⊠ GUY ANCHOR
- ⊠ TELEPHONE BOX
- ⊠ MONITOR WELL
- ⊠ STORM SEWER INLET
- ⊠ IRRIGATION CONTROL VALVE
- ⊠ METAL SIGN (AS NOTED)
- ⊠ BOLLARD
- ⊠ SPOT ELEVATION (GROUND SURFACE)
- ⊠ SPOT ELEVATION (HARD SURFACE)
- CONTOUR LINE WITH ELEVATION (IN FEET)
- NAVD1988 = NORTH AMERICAN VERTICAL DATUM OF 1929
- F.F.E. = FINISH FLOOR ELEVATION
- INV. = INVERT
- M.E.S. = MITERED END SECTION
- H.D.P.E. = HIGH DENSITY POLY ETHYLENE
- R.C.P. = REINFORCED CONCRETE PIPE
- C.M.P. = CORRUGATED METAL PIPE
- D.I.P. = DUCTILE IRON PIPE
- V.C.P. = VITRIFIED CLAY PIPE
- PVC = POLYVINYL CHLORIDE PIPE
- CONC. = CONCRETE
- EL. = ELEVATION
- BLDG. = BUILDING
- GEN. = GENERATOR
- A/C = AIR CONDITIONER
- ASPHALT SURFACE
- LIMEROCK SURFACE
- CONCRETE SURFACE
- ST = STORM SEWER LINE
- OHW = OVERHEAD UTILITY LINES
- X = FENCE LINE (TYPE AS NOTED)

SURVEYOR'S NOTES:

1. COORDINATES SHOWN HEREON ARE BASED ON FLORIDA STATE PLANE NORTH GRID NAD 83 (2007) DATUM.
2. VERTICAL DATUM IS BASED ON AN NGS BENCHMARK BEING A BRASS DISK SET ON TOP OF A CONCRETE MONUMENT AND STAMPED "G-51", LOCATED AT THE NW CORNER OF NW 126TH AVENUE & NW 59TH DRIVE, ALACHUA COUNTY, FLORIDA. PUBLISHED ELEVATION = 166.32' (NAVD 1988).
3. THIS SURVEY IS 5 SHEETS TOTAL. EACH SHEET IS NOT COMPLETE WITHOUT THE OTHERS. SEE SHEET 1 OF 5 FOR ADDITIONAL SURVEYOR'S NOTES.



Causseaux, Hewett, & Walpole, Inc.

Engineering • Surveying • Planning

6011 NW 1st Place, Gainesville, Florida 32607

Phone (352) 331-6776 • Fax (352) 331-2476 • www.chw-inc.com

LB-5075

UNIVERSITY OF FLORIDA INSTITUTE OF
FOOD AND AGRICULTURAL SCIENCES

TECHNICAL	DATE	REVISION
ASH	06-28-2011	06-28-2011
RM/DR	11-07-2011	11-07-2011
SAH	11-01-2011	11-01-2011

REVISION NOTE 11/14/2011: UPDATED TOPOGRAPHY OF RETENTION PONDS

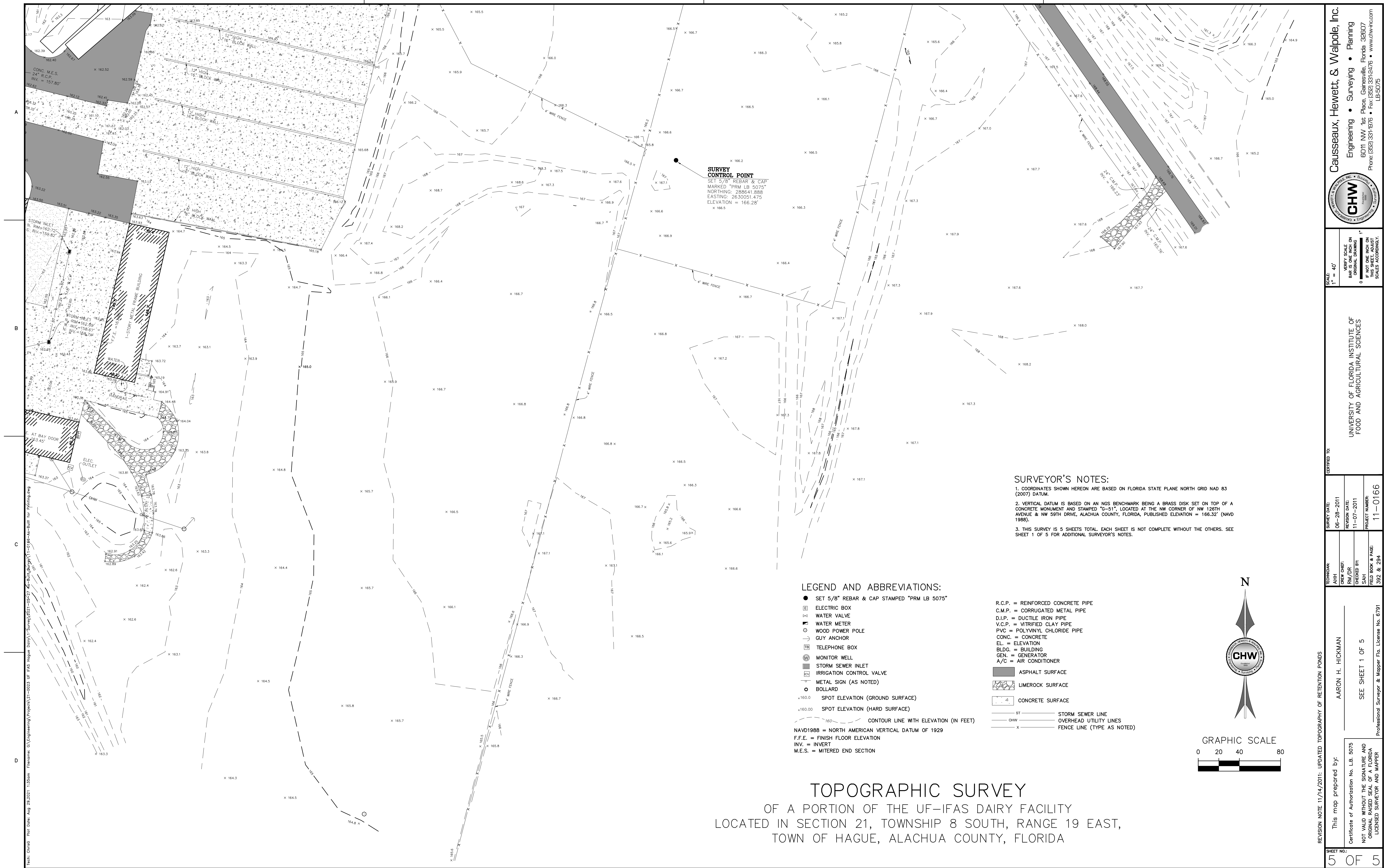
THIS MAP PREPARED BY: AARON H. HICKMAN

Certificate of Authorization No. LB 5075

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Professional Surveyor & Mapper Fla. License No. 6791

SHEET NO. 4 OF 5



**UNIVERSAL
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• St. Augustine
• Daytona Beach
• West Palm Beach

April 27, 1998

Quinn and Associates, Inc.
3501 South Main Street, Suite 2
Gainesville, Florida 32601

Attention: Mr. Russell Whitehouse

Reference: IFAS Hague Dairy
Alachua County, Florida
Order No: 22549-002-98 Report No: 20530

Gentlemen:

Universal Engineering Sciences, Inc. has completed the subsurface investigation for the existing and proposed stormwater retention basins at the IFAS Hague dairy in Alachua County, Florida. Our work was authorized by you.

Introduction

We understand that you propose to construct two new retention basins and enlarge an existing basin. The basin sites are generally open, and surface slopes are mild but vary in direction.

The purposes of our work were to investigate the soil and groundwater conditions at the basin locations, and present soil parameters to be used in the design of the basins.

Field Investigation

We investigated the subsurface conditions with three auger borings advanced to depths of 15 feet and two hand-auger borings advanced to depths of 5 feet. The soil borings were performed at the approximate locations indicated on the attached Boring Location Plan. These locations were selected by you, and were located in the field by our personnel. You should consider the locations to be approximate.

Auger borings are performed by advancing a solid stem auger into the soil in a manner which reduces soil disturbance. At the desired depth, the auger is stopped and retracted. The soil profile is determined by inspecting the cuttings recovered on the auger flights.

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Order No: 22549-002-98
Report No: 20530

Hand auger borings are performed by manually advancing a three-inch diameter metal sleeve into the soil to recover samples at limited depths. Samples are examined for soil type and color.

Laboratory Testing

We performed five falling head permeability tests and wash 200 determinations on representative samples of the site soils. The samples were compacted to a loose condition, similar to the in-situ conditions of the soils.

Findings

The soil borings generally encountered three strata. The first layer consists of 1 to 2.5 feet of dark brown, silty sand or sand with silt.

The second layer consists 1.5 to 5 feet of light brown sand with silt.

The third layer consists of an undetermined thickness of gray, green and orange, sandy clay or clayey sand.

Groundwater was encountered at depths of 3.5 to 4 feet below the ground surface.

For a more detailed description of the soil conditions encountered, please refer to the soil boring logs attached.

Recommended Soil Parameters

The laboratory tests indicate that the sandy surface soils at this site have vertical coefficients of permeability which range from 1.5 to 24.5 feet per day. We estimate that the seasonal high groundwater table will range from 2 to 2.5 feet below the ground surface. Our borings indicate that the depth of the confining layer ranges from 4 to 7 feet below the ground surface.

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Report No: 20530


Based upon the above findings, we recommend that you consider the following soil parameters in your basin design:


1. Average depth of confining layer
= 5 feet
2. Average Vertical Unsaturated infiltration rate
= 11.5 feet/day
3. Average Horizontal Hydraulic Conductivity
= 17 feet/day
4. Fillable porosity = 30%
5. Average depth of seasonal high groundwater
table = 2.5 feet

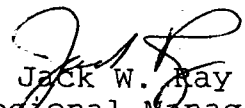
We appreciate this opportunity to provide service to you on this project. If you should have any questions, or if we can be of further assistance, please contact us.

Sincerely,

UNIVERSAL ENGINEERING SCIENCES, INC.

 4/27/98
John C. Dorman, Jr., Ph.D.
Senior Project Engineer
Florida P.E. No. 0052612

 4/27/98
Kenneth L. Hill, P.E.
Regional Engineer
Florida P.E. No. 0040146


Jack W. Ray
Regional Manager

JCD/JWR/KLH:cs (2)

SUMMARY OF LABORATORY TEST RESULTS

PROJECT: IFAS Hague Dairy
 Alachua County, Florida
 CLIENT: Quinn and Associates, Inc.

ORDER NO: 22549-002-98
 REPORT NO: 20530
 DATE: 04-27-98

BORING NO.	SAMPLE DEPTH (ft.)	SOIL DESCRIPTION	SAMPLE TYPE *	NATURAL MOISTURE (%)	ATTERBERG LIMITS		COEFFICIENT OF PERMEABILITY (feet/day)	SIEVE ANALYSIS (% passing)						AASHTO SOIL CLASSIFICATION	UNIFIED SOIL CLASSIFICATION
					LIQUID LIMIT (%)	PLASTICITY INDEX (%)		No. 4	No. 10	No. 40	No. 60	No. 100	No. 200		
A-1	2	Light Brown Sand with Silt					15.5						7.0		SP/SM
A-2	1	Dark Brown, Silty Sand					1.5						12		SM
A-3	2	Light Brown Sand with Silt					10.2						6.5		SP/SM
A-4	3	Light Brown Sand with Silt					6.8						8.8		SP/SM
A-5	1	Dark Brown Sand with Silt					24.5						6.2		SP/SM

* SS - Split Spoon

ST - Shelby Tube

A - Auger

REVIEWED

BY:

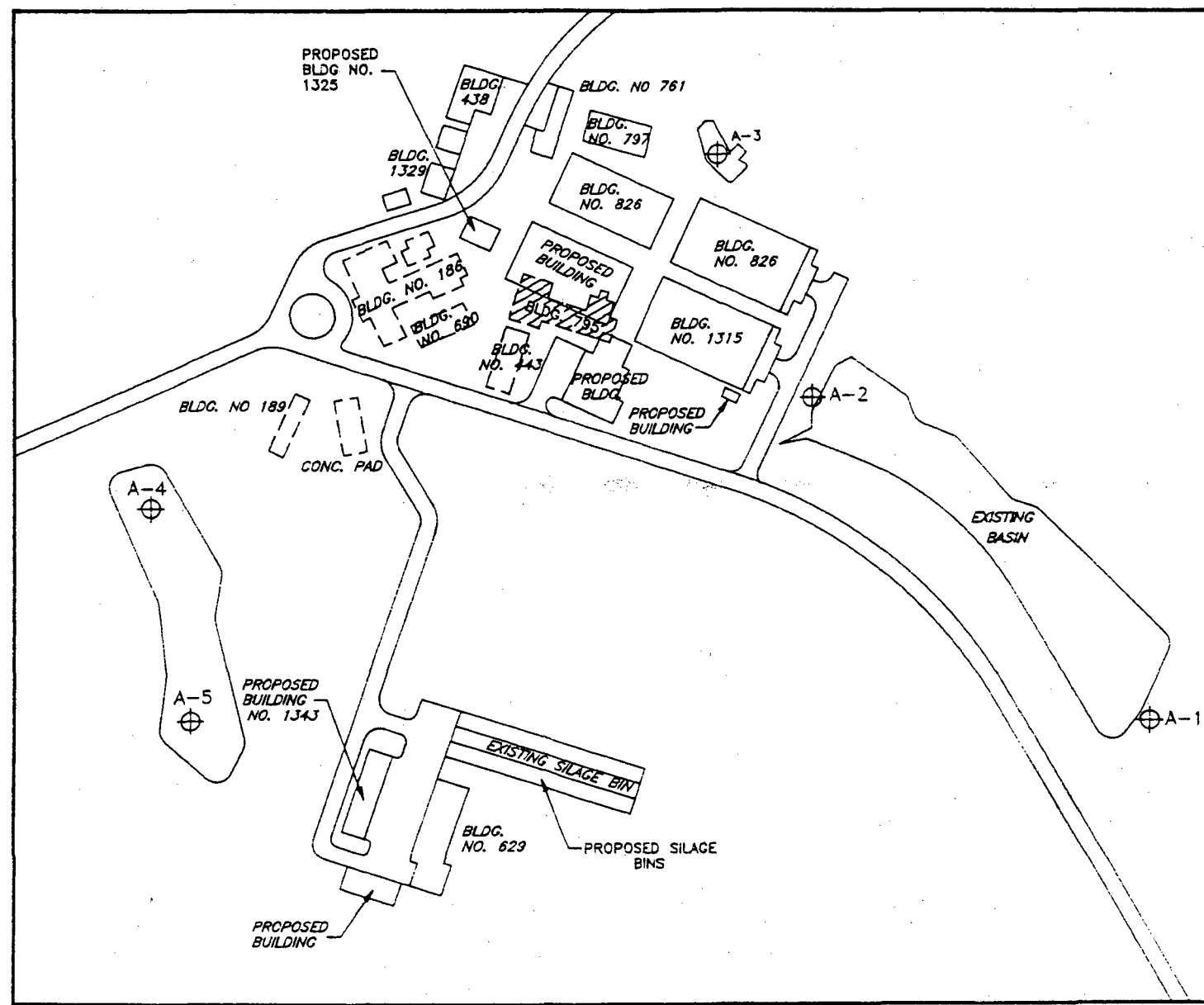
John C. Dorman, Jr. 4/27/98
 John C. Dorman, Jr., Ph.D., P.E.

Page 1

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 (904)372-3392





LEGEND

⊕ AUGER BORING
BASED ON SITE PLAN PROVIDED BY CLIENT.

IFAS HAGUE DAIRY
ALACHUA COUNTY, FLORIDA
LOCATION PLAN



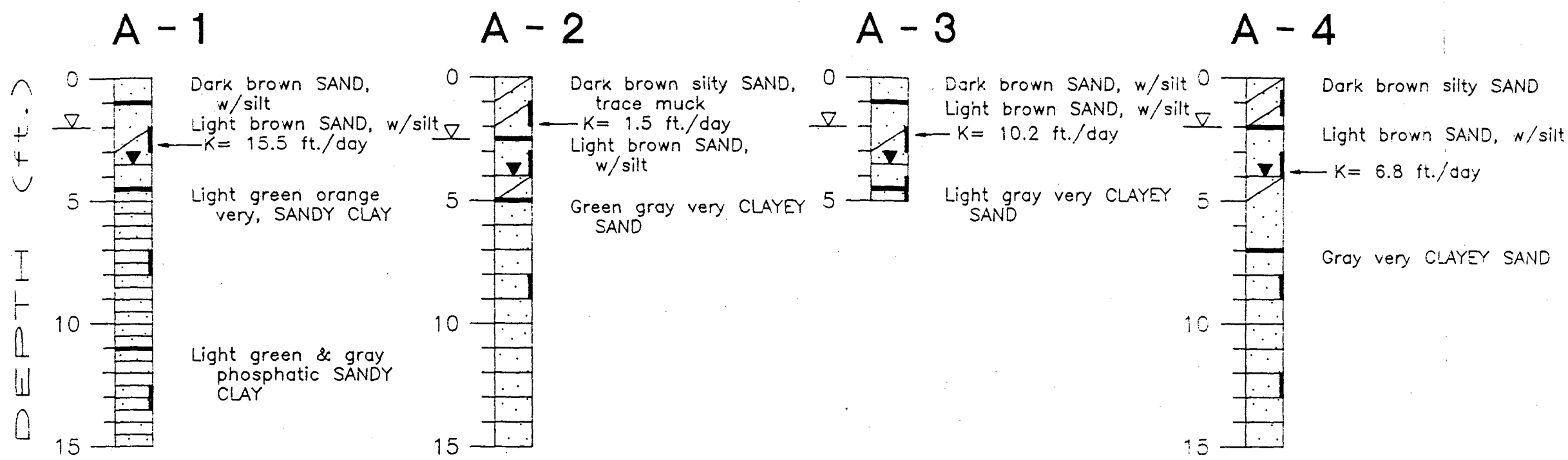
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FOR: QUINN and ASSOCIATES, INC.

DRAWN BY: KD	DATE: 4/14/98
CHECKED BY: KLI	DATE:
SCALE: 1" = 250'	ACADFILE: 22549-B
ORDER NO: 22549-002	REPORT NO:

PAGE NO:

1 of 2



LEGEND

- ▼ APPARENT WATER TABLE
 - ▽ ESTIMATED WET SEASON WATER TABLE
- BORINGS PERFORMED 4/13/98.
NOTE: K=15.5 ft./day DENOTES COEFFICIENT OF PERMEABILITY (DARCY'S K).

FOR: QUINN and ASSOCIATES, INC.		DATE: 4/14/98	
DRAWN BY: KD	CHECKED BY: KLH	DATE:	ACADFILE: 22549-A
SCALE: NA		ORDER NO: 22549-002	REPORT NO:

IFAS HAGUE DAIRY

ALACHUA COUNTY, FLORIDA

LOG OF BORINGS

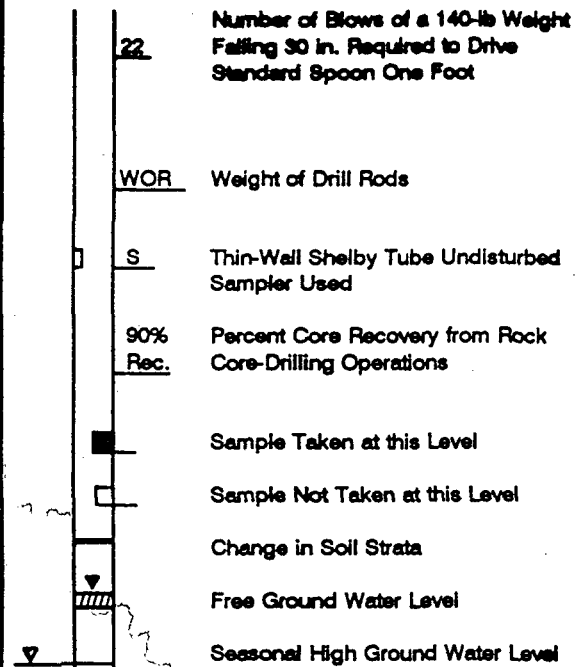
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605308

KEY TO BORING LOGS

SYMBOLS



RELATIVE DENSITY (sand-silt)

Very Loose - Less Than 4 Blows/Ft.
Loose - 4 - 10 Blows/Ft.
Medium - 10 to 30 Blows/Ft.
Dense - 30 to 50 Blows/Ft.
Very Dense - More Than 50 Blows/Ft.

CONSISTENCY (clay)

Very Soft - Less Than 2 Blows/Ft.
Soft - 2 to 4 Blows/Ft.
Medium - 4 to 8 Blows/Ft.
Stiff - 8 to 15 Blows/Ft.
Very Stiff - 15 to 30 Blows/Ft.
Hard - More Than 30 Blows/Ft.

UNIFIED CLASSIFICATION SYSTEM

MAJOR DIVISIONS			GROUP SYMBOLS	TYPICAL NAMES
COARSE-GRAINED SOILS More than 50% retained on No. 200 sieve*	GRAVELS 50% or more of coarse fraction retained on No. 4 sieve	CLEAN GRAVELS	GW	Well-graded gravels and gravel-sand mixtures, little or no fines
			GP	Poorly graded gravels and gravel-sand mixtures, little or no fines
		GRAVELS WITH FINES	GM	Silty gravels, gravel-sand-silt mixtures
			GC	Clayey gravels, gravel-sand-clay mixtures
	SANDS More than 50% of coarse fraction passes No. 4 sieve	CLEAN SANDS	SW	Well-graded sands and gravelly sands, little or no fines
			SP	Poorly graded sands and gravelly sands, little or no fines
		SANDS WITH FINES	SM	Silty sands, sand-silt mixtures
			SC	Clayey sands, sand-clay mixtures
FINE-GRAINED SOILS 50% or more passes No. 200 sieve*	SILTS AND CLAYS Liquid limit 80% or less	ML	Inorganic silts, very fine sands, rock flour, silty or clayey fine sands	
		CL	Inorganic clays of low to medium plasticity, gravelly clays, sandy clays, silty clays, lean clays	
		OL	Organic silts and organic silty clays of low plasticity	
	SILTS AND CLAYS Liquid limit greater than 80%	MH	Inorganic silts, micaceous or diatomaceous fine sands or silts, elastic silts	
		CH	Inorganic clays or high plasticity, fat clays	
		OH	Organic clays of medium to high plasticity	
	Highly Organic Soils		PT	Peat, muck and other highly organic soils

* Based on the material passing the 3-in. (75-mm) sieve.

PLASTICITY CHART

