

State of Rhode Island and Providence Plantations Contract Offer
RIVIP GENERATED BIDDER CERTIFICATION COVER FORM

SECTION 1 - VENDOR INFORMATION

Bid/RFP Number:

Bid/RFP Title:

Opening Date & Time:

RIVIP Vendor ID #:

Vendor Name:

Address:

Telephone:

Fax:

E-Mail:

Contact Person:

Title:

R.I. Foreign Corp #:

REVISED NOTICE TO VENDORS

Effective January 1, 2012 all public works projects related bids or proposals exceeding SEVEN HUNDRED FIFTY THOUSAND (\$750,000) dollars are required to include a "public copy". All agency contract solicitations, requests for proposals, invitations for bids, etc. shall state that any bid or proposal that exceeds SEVEN HUNDRED FIFTY THOUSAND (\$750,000) dollars must include a copy to be available for public inspection upon the opening of the bids. Any bid or proposal that exceeds SEVEN HUNDRED FIFTY THOUSAND (\$750,000) dollars which does not include a copy for public inspection shall be deemed to be non-responsive. Additionally, proposals submitted for a Master Price Agreement, when the total amount potentially may exceed SEVEN HUNDRED FIFTY THOUSAND (\$750,000) dollars and the solicitation expressly requires any or all vendors to submit a public copy, must include a copy to be available for public inspection. For further information, please see RI Gen Laws §37-2-18(j) and State of RI Procurement Regulations at <http://purchasing.ri.gov/rulesandregulations/rulesandregulations.aspx>. Please see Question #11 below for further instructions regarding RIDOT Highway and Bridge construction projects.

NOTE: AWARD OF CONTRACTS AND PURCHASE ORDERS SHALL BE SUBJECT, AT THE DISCRETION OF THE PURCHASING AGENT, TO THE OFFEROR COMPLETING AN ON-LINE RIVIP REGISTRATION at www.purchasing.ri.gov. It is THE RESPONSIBILITY OF THE VENDOR to make on-line corrections/updates using the Vendor maintenance program on the RI Division of Purchases Web Site.

SECTION 2 - REQUIREMENTS

ALL OFFERS ARE SUBJECT TO THE REQUIREMENTS, PROVISIONS AND PROCEDURES CONTAINED IN THIS THREE-PAGE CERTIFICATION FORM. Offerors are expected to READ, SIGN and COMPLY with all requirements. Failure to do so may be grounds for disqualification of the offer contained herein.

Section 2.1 - RULES FOR SUBMITTING OFFERS

2.1A. This CERTIFICATION FORM MUST BE ATTACHED IN ITS ENTIRETY TO THE FRONT OF THE OFFER and shall be considered an integral part of each offer made by a vendor to enter into a contract with the State of Rhode Island, Division of Purchases. As such, submittal of the entire Bidder Certification Cover Form, signed by a duly authorized representative of the offeror attesting that he/she (1) has read and agrees to comply with the requirements set forth herein and (2) to the accuracy of the information provided and the offer extended, is a mandatory part of any contract award.

To assure that offers are considered on time, each offer must be submitted with the specific Bid/RFP/LOI number (provided above), date and time of opening marked in the upper left hand corner of envelope. Each bid/offer must be submitted in separate sealed envelopes.

A complete, signed (in ink) offer package, must be delivered to the Division of Purchases (via any mail or messenger service) by the time and date specified for the opening of responses in a sealed envelope.

Bids must be submitted on the RI bid solicitation forms provided, indicating brand and part numbers of items offered, as appropriate. Bidders must submit detailed cuts and specs on items offered as equivalent to brands requested WITH THE OFFER. Bidders must be able to submit samples if requested.

Mail To: Division of Purchases, One Capitol Hill, Second Floor, Providence, RI 02908-5855.

Documents misdirected to other State locations or which are not present in the Division of Purchases at the time of opening for whatever cause will be deemed to be late and will not be considered. For the purposes of this requirement, the official time and date shall be that of the time clock in the Division of Purchases. Postmarks shall not be considered proof of timely submission.

2.1B. RIVIP SOLICITATIONS. To assure maximum access opportunities for users, public bid/RFP solicitations shall be posted on the RIVIP for a minimum of seven days and no amendments shall be made within the last five days before the date an offer is due. Except when access to the Web Site has been severely curtailed and it is determined by the State Purchasing Agent that special circumstances preclude extending a solicitation due date, requests to mail or fax hard copies of solicitations will not be honored. When the result of an Internet solicitation is unsuccessful, the State of Rhode Island will cancel the original solicitation and resolicit the original offer directly from vendors.

2.2. PRICING. Offers are irrevocable for sixty (60) days from the opening date (or such other extended period set forth in the solicitation) and may not be withdrawn, except with the express permission of the State Purchasing Agent. All pricing will be considered to be firm and fixed unless otherwise indicated. The State of Rhode Island is exempt from Federal excise taxes and State Sales and Use Taxes. Such taxes shall not be included in the bid price. PRICES QUOTED ARE FOB DESTINATION.

2.3. DELIVERY and PRODUCT QUALITY. All offers must define delivery dates for all items; if no delivery date is specified, it is assumed that immediate delivery from stock will be made. The contractor will be responsible for delivery of materials in first class condition. Rejected materials will be at vendor's expense.

2.4. PREVAILING WAGE, OSHA and APPRENTICESHIP.

2.4.1 Prevailing Wage and OSHA Safety Training Requirements. The provisions of the State labor laws and OSHA Safety Training, including but not limited to Rhode Island General Laws 37-13-1 et seq. and 28-20-1 et seq., shall apply for all public works contracts. Prevailing wage rates are posted in the information section of the RIVIP. The RI Department of Labor and Training should be contacted for regulatory requirements.

2.4.2 (a) Apprenticeship. Rhode Island General Laws §37-13-3.1 requires all general contractors and subcontractors who perform work on any public works contract awarded by the state valued at one million dollars (\$1,000,000) or more shall employ apprentices required for the performance of the awarded contract. The number of apprentices shall comply with the apprentice to journeyman ratio for each trade approved by the apprenticeship council of the Department of Labor and Training.

2.4.2(b) In addition to executing this certification, the general contractor shall be responsible for requiring that all subcontractors on the awarded project certify their compliance with R.I. Gen. Laws §37-13-3.1 prior to allowing the subcontractor to commence work on the awarded project. The general contractor shall be responsible for submitting the subcontractors' compliance certification to the Division of Purchases after the contracts are finalized between the contractor and subcontractor.

2.5. PUBLIC RECORDS. Offerors are advised that all materials submitted to the State for consideration in response to this solicitation will be considered without exception to be Public Records pursuant to Title 38 Chapter 2 of the Rhode Island General Laws, and will be released for inspection immediately upon request once an award has been made. Offerors are encouraged to attend public bid/RFP openings to obtain information; however, bid/RFP response summaries may be reviewed after award(s) have been made by using the RIVIP at any time or appearing in person at the Division of Purchases Mondays through Fridays between 8:30 a.m. and 3:30 p.m. Telephone requests for results will not be honored. Written requests for results will only be honored if the information is not available on the RIVIP.

SECTION 3 - AWARD DETERMINATION

Award will be made to the responsive and responsible offeror quoting the lowest net price in accordance with specifications, for any individual item(s), for major groupings of items, or for all items listed, at the State's sole option.

3.1. BID SURETY. Where bid surety is required, bidder must furnish a bid bond or certified check for 5% of the bid total with the bid, or for such other amount as may be specified. Bids submitted without a required bid surety will not be considered.

3.2. SPECIFICATIONS. Unless specified "no substitute," product offerings equivalent in quality and performance will be considered (at the sole option of the State) on the condition that the offer is accompanied by detailed product specifications. Offers which fail to include alternate specifications may be deemed nonresponsive.

SECTION 4 – CONTRACT PROVISIONS

4.1. VENDOR AUTHORIZATION TO PROCEED.

4.1A. When a purchase order, change order, contract/agreement or contract/agreement amendment is issued by the RI Division of Purchases, no claim for payment for services rendered or goods delivered contrary to or in excess of the contract terms and scope shall be considered valid unless the vendor has obtained a written change order or contract amendment issued by the Division of Purchases PRIOR TO delivery.

4.1B. Any offer, whether in response to a solicitation for proposals or bids, or made without a solicitation, which is accepted in the form of an order OR Pricing Agreement made in writing by the Purchasing Agent, or a state official with purchasing authority delegated by the Purchasing Agent, shall be considered a binding contract.

4.2. REGULATIONS, GENERAL TERMS AND CONDITIONS GOVERNING STATE CONTRACTS. This solicitation and any contract or purchase order arising from it are issued in accordance with the specific requirements described herein, and the State's Purchasing Laws and Regulations and other applicable State Laws. The Regulations, General Terms and Conditions are incorporated into all state contracts. These regulations and basic information on How To Do Business with the State of Rhode Island are posted on the Rhode Island Vendor Information Program Website (www.purchasing.ri.gov).

4.2A. ARRA SUPPLEMENTAL TERMS AND CONDITIONS. Contracts and sub-awards funded in whole or in part by the American Recovery and Reinvestment Act of 2009. Pub.L.No. 111-5 and any amendments thereto, such contracts and sub-awards, shall be subject to the Supplemental Terms and Conditions For Contracts and Sub-awards Funded in Whole or in Part by the American Recovery and Reinvestment Act of 2009. Pub.L.No. 111-5 and any amendments thereto located on the Division of Purchases website at www.purchasing.ri.gov.

4.3. EQUAL EMPLOYMENT OPPORTUNITY. Compliance certificate and agreement procedures will apply to all awards for supplies or services valued at \$10,000 and more. Minority Business Enterprise policies and procedures, including subcontracting opportunities as described in Title 37 Chapter 14.1, of the Rhode Island General Laws, also apply.

Revised: 12/20/2011

4.4. PERFORMANCE BONDS. Where indicated, successful bidder must furnish a 100% performance bond and labor and payment bond for contracts subject to Title 37 Chapters 12 and 13 of the Rhode Island General Laws. All bonds must be furnished by a surety company authorized to conduct business in the State of Rhode Island. Performance bonds must be submitted within 21 calendar days of the issuance of a tentative notice of award.

4.5. DEFAULT and NON-COMPLIANCE. Default and/or non-compliance with the RIVIP requirements and any other aspects of the award may result in withholding of payment(s), contract termination, debarment, suspension, or any other remedy necessary that is in the best interest of the state.

4.6. COMPLIANCE. Vendor must comply with all applicable federal, state and local laws, regulations and ordinances.

4.7. SPRINKLER IMPAIRMENT AND HOT WORK. The Contractor agrees to comply with the practices of the State's insurance carrier for sprinkler impairment and hot work. Prior to performing any work, the Contractor shall obtain the necessary information for compliance from the Risk Management Office at the Department of Administration or the agency for which work will be performed.

SECTION 5 – CERTIFICATIONS AND DISCLOSURES
ALL CONTRACT AWARDS ARE SUBJECT TO THE FOLLOWING DISCLOSURES & CERTIFICATIONS
Offerors must respond to every disclosure statement.

A person authorized to enter into contracts must sign the offer and attest to the accuracy of all statements.

Indicate Yes (Y) or No (N):

- _____ 1. Has your firm (or any principal) been subject to any of the following findings by the Federal Government, the State of Rhode Island or any other jurisdiction? Suspension, Debarment, Indictment, Criminal Conviction. CIRCLE APPROPRIATE ITEM(S).
- _____ 2. Has your firm (or any principal) been fined more than \$5000 for a single violation by the Rhode Island Department of Environmental Management for violation of Rhode Island Wetlands law?
- _____ 3. I/we certify that I/we will immediately disclose, in writing, to the Chief Purchasing Officer any potential conflict of interest, which may occur during the course of the engagement authorized pursuant to this contract.
- _____ 4. I/we acknowledge that, in accordance with Chapter 37-2-54(c) of the Rhode Island General Laws "no purchase or contract shall be binding on the state or any agency thereof unless approved by the Department [of Administration] or made under general regulations which the Chief Purchasing Officer may prescribe", including change orders and other types of contracts and under State Purchasing Regulation 8.2.1.1.2, "any alleged oral agreement or arrangements made by a bidder or contractor with any agency or an employee of the Office of Purchases may be disregarded and shall not be binding on the state".
- _____ 5. I/we certify that the above vendor information is correct and complete.
- _____ 6. I/we certify that I/we or my/our firm possesses all licenses required by Federal and State laws and regulations as they pertain to the requirements of the solicitation and offer made herein and shall maintain such required license(s) during the entire course of the contract resulting from the offer contained herein and should my/our license lapse or be suspended, I/we shall immediately inform the Rhode Island State Purchasing Agent in writing of such circumstance.
- _____ 7. I/we certify that I/we will maintain required insurance during the entire course of the contract resulting from the offer contained herein and should my/our insurance lapse or be suspended, I/we shall immediately inform the Rhode Island State Purchasing Agent in writing of such circumstance.
- _____ 8. I/we certify that I/we understand that falsification of any information herein or failure to notify the Rhode Island State Purchasing Agent as certified herein may be grounds for suspension, debarment and/or prosecution for fraud.
- _____ 9. I/we acknowledge that the provisions and procedures set forth in this three-page form apply to any contract arising from this offer.
- _____ 10. I/we acknowledge that I/we understand the State's Purchasing Laws (37-2 of the General Laws of Rhode Island) and Purchasing Regulations and General Terms and Conditions available at the Rhode Island Division of Purchases Website (www.purchasing.ri.gov) apply as the governing conditions for any contract or purchase order I/we may receive from the State of Rhode Island, including the offer contained herein.
- _____ 11. **NEW REVISED REQUIREMENT-IMPORTANT!!!** I/we hereby acknowledge that I/we understand that effective January 1, 2012 all public works related project bids or proposals exceeding **SEVEN HUNDRED FIFTY THOUSAND (\$750,000) dollars**, inclusive of all proposed alternates, must include a "public copy" as required by RI Gen Laws § 37-2-18(j) and the State Procurement Regulations. It is further understood that any bid or proposal in excess of **SEVEN HUNDRED FIFTY THOUSAND (\$750,000) dollars** which does not include a copy for public inspection shall be deemed to be non-responsive.

RIDOT Highway and Bridge Public Works related projects utilizing Quest Lite program only – Effective immediately, submission to the Division of Purchases of a duplicate original of a vendor's Quest Lite compatible electronic copy on a readable compact disk shall satisfy the statutory "public copy" requirements. Quest Lite software is defined in the Division of Purchases "State Procurement Regulations" §12.102.05 (Preparation of Proposal).

For further information, please see R.I Gen. Laws § 37-2-18(j) and specific instructions at www.purchasing.ri.gov.

IF YOU HAVE ANSWERED "YES" TO QUESTIONS #1-2 OR IF YOU ARE UNABLE TO CERTIFY YES TO ITEMS #3-11 OF THE FOREGOING, PROVIDE DETAILS/EXPLANATION IN AN ATTACHED STATEMENT. INCOMPLETE CERTIFICATION FORMS SHALL BE GROUNDS FOR DISQUALIFICATION OF OFFER.

Signature below commits vendor to the attached offer and certifies (1) that the offer has taken into account all solicitation amendments, (2) that the above statements and information are accurate and that vendor understands and has complied with the requirements set forth herein. When delivering offers in person to One Capitol Hill, vendors are advised to allow at least one hour additional time for clearance through security checkpoints.

Vendor's Signature (Person authorized to enter into contracts; signature must be in ink.)

Date

Print Name and Title of company official signing offer
Revised: 12/20/2011



**State of Rhode Island
Department of Administration / Division of Purchases
One Capitol Hill, Providence, Rhode Island 02908-5855
Tel: (401) 574-8100 Fax: (401) 574-8387**

July 6, 2012

ADDENDUM # 3

RFQ #7457801

Title: Flagg Road Extension - URI

Bid Opening: 7/13/12 @ 1:45 PM (EDT)

Contract documents are hereby modified to include the following documents as if fully thereto.

(Attached)

Interested parties should monitor this website, on a regular basis, for any additional information that may be posted.

John F. O'Hara II

Chief Buyer

NOTICE OF ADDENDUM NO. 3

TO

State of Rhode Island
 Board of Governors for Higher Education
 University of Rhode Island
 Project No. KC.T.PVNG.2010.001
 Flagg Road Parking Lot
 Kingston, Rhode Island

DATE OF ADDENDUM: July 5, 2012

The contract documents are hereby modified to include the following documents as if fully attached thereto.

Contract Plans

1. Delete the plans listed below and replace with the attached plan drawings for Addendum No. 3.

Dwg. No.	Drawing Title	Date
<u>Flagg Road Extension</u>		
3	Typical Sections	July 5, 2012
8	Grading & Drainage Plan 2	July 5, 2012
9	Grading & Drainage Plan 3	July 5, 2012
15	Detail 3	July 5, 2012
<u>Flagg Road Parking Lot (Alternate No. 2)</u>		
2	Legend and Notes	July 5, 2012
4	General Plan	July 5, 2012
9	Detail 3	July 5, 2012
13-15	Electrical Plan & Details (E-1 to E-3)	July 5, 2012

Contract Specifications

2. Deleted the following Specification Sections in their entirety.

- 00010 Table of Contents (Addendum No. 1)
- 00015 List of Drawings (Addendum No. 1)
- 00410 Bid Form (Addendum No. 1)
- 01201 Attachment A (Addendum No. 1)

And replace with the following sections

- 00010 Table of Contents (Addendum No. 3)

- 00015 List of Drawings (Addendum No. 3)
 - 00410 Bid Form (Addendum No. 3)
 - 01201 Attachment A (Addendum No. 3)
3. Deleted Page 02525-3 (Addendum No. 1) and replace with Page 02525-3 (Addendum No. 3). The pervious pavement type has been changed from PG 76-22 (SBS) to PG 64-28 (SBS).
 4. Deleted Page 00710-1 (Addendum No. 1) and replace with Page 00710-1 (Addendum No. 3). The time of completion dates have been changed.
 5. Add Section 16310 Pad Mounted Transformer to the Contract Specifications.

Clarifications

The following clarifications are made for informational purposes based on the pre-bid conference meeting.

1. **Flagg Road Parking Lot, Drawing 7 Detail - 1, Gravel Borrow Berm Detail.** The bottom elevation of the crushed stone is fixed at elevation 113.88 on the easterly side of the gravel berm and at elevation 114.98 on the westerly side of the gravel berm.
2. **Flagg Road Extension, Drawing 4.** The abandoned cesspool is located at approximately Station 53+46, 32' right.

Attached: (25 Sheets)

END OF ADDENDUM NUMBER 3

f:\files\wordpro\1255\flagg road extension addendum 3\addendum 3.docx

DOCUMENT 00010 - TABLE OF CONTENTS

INTRODUCTORY INFORMATION

00001	Cover
00005	Title Page
00010	Table of Contents
00015	List of Drawings

BIDDING AND CONTRACT REQUIREMENTS

00100	Invitation to Bid
00200	Instructions to Bidders
00210	Supplemental Instructions to Bidders
00410	Bid Form
00430	Bid Security Form
00450	Bidder's Qualification Form
00520	Agreement Form
00610	Performance Bond; Payment Bond
00614	Waiver of Lien Form
00700	General Conditions
00710	Supplemental General Conditions
00720	URI Sexual Harassment Policy
00730	Manual for Construction Project Safety Procedures
00740	Hot Work Procedure
00750	Managing Fire Protection System Impairment
00760	URI Water System Regulations/Policies
00850	Prevailing Wage Rates
00900	Addenda and Modifications

SPECIFICATIONS

DIVISION 1 - GENERAL REQUIREMENTS

01100	Summary
01101	Attachment A – Site Utilization
01102	Attachment B – Fire Protection Impairment Form
01200	Price and Payment Procedures
01201	Attachment A - Price and Payment Procedures
01300	Administrative Requirements
01301	Attachment A – Administrative Requirements
01330	Submittal Procedures
01331	Attachment A – Submittal Procedures
01400	Quality Requirements
01500	Temporary Facilities and Controls
01501	Attachment A – Temporary Facilities and Controls
01600	Product Requirements
01700	Execution Requirements
01732	Waste Management

01780 Closeout Requirements

DIVISION 2 – CONSTRUCTION

- 02110 Site Preparation
- 02130 Erosion Controls
- 02210 Excavation and Embankment
- 02220 Trench and Miscellaneous Excavation
- 02230 Excavation and Removal of Unsuitable Materials
- 02310 Drainage Pipe
- 02320 Drainage Structures
- 02330 Paved Waterways
- 02340 Riprap Pads
- 02350 Riprap Ditch Check Dams
- 02360 Stone Baffles
- 02370 Cleaning and Flushing Pipe and Drainage Structures
- 02410 Cast-in-Place Concrete
- 02510 Borrow and Aggregates
- 02520 Bituminous Concrete Pavements
- 02525 Porous Asphalt Pavements
- 02530 Curbing
- 02540 Cold Plane and Removal of Existing Pavement
- 02610 Directional, Regulatory and Warning Signs
- 02620 Pavement Markings
- 02820 High Organic Soil and Wetland Seed
- 02900 Topsoil
- 02920 Turf and Grasses
- 02905 Plants

DIVISION 16 – ELECTRICAL POWER

- 16050 Electrical Materials and Methods
- 16119 Underground Ducts and Utility Structures
- 16120 Conductors and Cables
- 16130 Raceways and Boxes
- 16140 Wiring Devices
- 16170 Grounding and Bonding for Electrical Systems
- 16310 Pad Mounted Transformer
- 16410 Enclosed Switches and Circuit Breakers
- 16442 Panelboards
- 16461 Dry-Type Transformers
- 16491 Fuses

APPENDIX

- Appendix A Soil Data
- Appendix B Permits

END OF DOCUMENT

DOCUMENT 00015 - LIST OF DRAWINGS

Dwg. No.	Drawing Title	Date
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1	Cover Sheet Volume I and Volume II	June 2012
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Flagg Road Extension

1	Cover Sheet	March 2012
2	General Notes & Legends	March 2012
3	Typical Sections	July 5, 2012
4	General and Location Plan - 1	March 2012
5	General and Location Plan - 2	March 2012
6	Location Data	March 2012
7	Grading and Drainage Plan - 1	March 2012
8	Grading and Drainage Plan - 2	July 5, 2012
9	Grading and Drainage Plan - 3	July 5, 2012
10	Signing and Striping Plan - 1	March 2012
11	Signing and Striping Plan - 2	March 2012
12	Maintenance and Protection of Traffic	March 2012
13	Miscellaneous Details - 1	March 2012
14	Miscellaneous Details - 2	March 2012
15	Miscellaneous Details - 3	July 5, 2012

Flagg Road Parking Lot (Alternate No. 2)

1	Cover Sheet	June 2012
2	Legend and Notes	July 5, 2012
3	Existing Conditions Plan	June 2012
4	General Plan	July 5, 2012
5	Drainage & Grading Plan	July 5, 2012
6	Location Plan	June 2012
7-8	Details 1-2	June 2012
9	Details 3	July 5, 2012
10-11	Details 4-5	June 2012
12	Landscape Plan	June 2012
13-15	Electrical Plan & Details (E-1 to E-3)	July 5, 2012

END OF DOCUMENT

DOCUMENT 00410 - BID FORM

Date: _____

To: Rhode Island Department of Administration, Division of Purchases
One Capitol Hill, Providence, RI 02908

Project: Flagg Road Extension
University of Rhode Island, Kingston Campus

Submitted by: _____
(include address, _____
tel. & FAX nos., _____
and license no. _____
if applicable) _____

1. **BID (CONSTRUCTION OF FLAGG ROAD EXTENSION - Base Bid)**
Having examined the Place of The Work and all matters referred to in the Bid Documents and in the Contract Documents prepared by Gordon R. Archibald, Inc., Civil and Environmental Engineers for the above mentioned project, we, the undersigned, hereby offer to enter into a Contract to perform the Work for the Sum of:

_____ (\$ _____.)
(written, and _____ numerically)

- We have included the specified Allowances from Section 01200 in Division 1 of the Specifications in the above Bid sum as follows:

Allowance (Electrical and Overhead Utility Relocations)	<u>\$100,000.00</u>
Allowance (Soil Testing)	<u>\$10,000.00</u>
Allowance (Irrigation System Relocation)	<u>\$10,000.00</u>
Allowance (Emergency telephone & surveillance CCTV system)	<u>\$35,000.00</u>
Total Allowances	\$155,000.00

- We have included the required Bid security in the above Bid Sum. We have included 100% Payment and Performance Bonds in the above Bid Sum.
- We have included the original Bid and required additional **“public copy”** if required by Document 00210 – Supplemental Instructions to Bidders.

5. CONTRACT TIME

If this Bid is accepted, we will achieve Substantial Completion of the Work with 335 calendar days and in accordance with Section 00710, Article 2 - Time of Completion. We have included all premium time or additional staffing required to accommodate this schedule.

6. LIQUIDATED DAMAGES

Time is of the Essence: If we fail to achieve certification of Substantial Completion at the expiration of the agreed upon Contract Time indicated above, we acknowledge that we will be assessed Liquidated Damages for each calendar day the project continues to be in default of Substantial Completion, as follows:

\$ 1,000 per calendar day

7. REQUIREMENT FOR LICENSE NUMBER

In compliance with the requirements of Rhode Island General Law, Section 5-65-23, my Rhode Island license number for the work to be performed by this firm as prime contractor is:

LICENSE NUMBER: _____ .

8. ADDENDA

The following Addenda have been received. The modifications to the Bid Documents noted below have been considered and all costs are included in the Bid Sum.

- Addendum No. 1 dated: June 21, 2012
- Addendum No. 2 dated: June 25, 2012
- Addendum No. 3 dated: July 5, 2012

9. BID FORM SIGNATURE(S)

(Bidder's name)

By: _____

Title: _____

Corporate Seal:

END OF DOCUMENT

DOCUMENT 00710 – SUPPLEMENTAL GENERAL CONDITIONS

TABLE OF ARTICLES

1. DEFINITION OF ENTITIES
2. TIME OF COMPLETION
3. LIQUIDATED DAMAGES
4. MBE REQUIREMENTS
5. LABOR LAWS
6. WAGE RATES
7. ADDITIONAL CONTRACT DOCUMENTS
8. BONDING REQUIREMENTS
9. PROJECT MANAGER FORM
10. OTHER REQUIREMENTS

ARTICLE 1 – DEFINITION OF ENTITIES

- 1.1 OWNER:** The Rhode Island Board of Governors for Higher Education, University of Rhode Island, and the State of Rhode Island
Office of Capital Projects, URI
Sherman Building, 523 Plains Road, Kingston RI 02881
Attn. Mr. Paul DePace, 401.874.2725
- 1.2 PURCHASER:** Rhode Island Department of Administration, Division of Purchases
One Capitol Hill, Providence, RI 02908
- 1.3 DESIGN AGENT:** Office of Capital Projects, University of Rhode Island
- 1.4 CONSULTANTS:** Gordon R. Archibald, Inc. Civil and Environmental Engineers
- 1.5 PROJECT:** Flagg Road Extension

ARTICLE 2 – TIME OF COMPLETION

2.1 The length of time available for construction shall be 335 Calendar days from the date of the URI Purchase Order until Substantial Completion. The Contractor shall also meet the following completion date.

Flagg Road shall be operational within 270 days from the date of the URI Purchase Order. The first course of pavement with interim markings shall be in place and the roadway opened for traffic.

These are the dates to which liquidated damages apply and may only be adjusted as provided for in the Contract Documents. Contractor shall be responsible for completing the submittals required for issue of a Purchase Order in a timely manner. No extension will be granted for Purchasing delays.

Attachment A – 01201

A. Allowance

Summary

Include an allowance of \$155,000.00 in the Base Bid for use for the following items of work:

Allowance (Electrical and Overhead Utility Relocations)	\$100,000.00
Allowance (Soil Testing)	\$10,000.00
Allowance (Temporary Irrigation System Relocation)	\$10,000.00
Allowance (Temporary Irrigation System Relocation)	<u>\$35,000.00</u>
Total Allowances	\$155,000.00

Allowance for Electrical and Overhead Utility Relocation

An allowance of \$100,000.00 is listed in Section 00410 - Bid Form. This allowance allows the Contractor with the approval of the Owner to retain the services of National Grid, and other services providers (Verizon and Communications), and an electrical utility Contractor for the purpose of designing and relocating those certain utility poles, guys, and overhead lines owned by the University and by private parties. The Contractor shall be required to coordinate the work with each provider and the electrical utility Contractor. The Contractor shall obtain two prices from private utility Contractors. The work shall be in accordance with Section 00700 General Conditions, 3.8 Allowances.

The Contractor shall commence negotiations with National Grid, the University, and other utility providers within one (1) week of the notice to proceed to facilitate the relocation.

Allowance Soil Testing

An allowance of \$10,000.00 is listed in Section 00410 - Bid Form. This allowance allows the Contractor with the approval of the Owner, to retain the services of a qualified Materials Testing Company to conduct various soil testing including, but not limited to, sieve analysis and field density testing. This allowance does not include testing of bituminous pavement. Payment for the testing of bituminous pavement shall be included in the lump sum bid price for Flagg Road Extension. Should Flagg Road Parking Lot (Alternate 2) be selected, payment for testing of bituminous pavement for related to the Parking Lot shall be included in the lump sum price for Flagg Road Parking Lot.

The scope of the soil testing program will be developed by the Engineer. The Contractor will transmit the scope of the testing program to the Materials Testing Company together with a request for a firm quotation for the work. When the Contractor receives the quotation from the Materials Testing Company and he finds it fair and reasonable, he shall provide to the Owner. The Owner will review the Contractor’s submission and if

satisfaction, the Contractor shall notify the Materials Testing Company to proceed forthwith.

Allowance for Irrigation System

An allowance of \$10,000.00 is listed in Section 00410 - Bid Form. This allowance allows the Contractor with the approval of the Owner to retain and/or to perform work to relocate any irrigation line which may be still be active during the roadway construction.

Allowance for Emergency Telephone and Surveillance CCTV System

An allowance of \$35,000.00 is listed in Section 00410 - Bid Form. This allowance allows the Contractor with the approval of the Owner to retain and to facilitate the design and installation of an emergency telephone and surveillance CCTV system. The designer shall be approved by the Owner.

B. Cash Allowances

1. None.

C. Unit Prices

1. None

D. Alternates

1. Alternate No. 1 is to remove and legally dispose of the existing greenhouse facility and foundations as indicated on the plans.
2. Alternate No. 2 is to complete all work indicated on the Plans labeled Volume II - Flagg Road Parking Lot and as indicated in the Specifications

E. Payroll Reporting

1. Forms for the submission of Certified Payroll Records may be found from the Rhode Island [Prevailing Wage Website](#) in either PDF or Excel formats. These forms must be used on monthly submittals.
2. Identify Apprenticeship hours required under RIGL 37-13-3.1 for all contracts over \$1 million in value.
3. Identify MBE/DBE subcontractors and hours worked in a format acceptable to URI.

F. Warranty Inspection Retainage

1. One-half of one percent of the cost of the Work will be retained from Final Payment for this purpose.

G. Revision to 01200 Texts

1. In paragraph 1.01, delete the "Cash" from line A. Delete line B entirely.
2. At paragraph 1.02, delete the word "Cash" in the heading, and again in lines A and D.
3. Delete paragraph 1.03 in its entirety.

END OF ATTACHMENT

season. The Contractor shall not pave on days when rain is forecast for the day, unless a change in the weather results in favorable conditions as determined by the Engineer.

1.6 References.

1.6.1 *General Porous Asphalt Bituminous Paving and Groundwater Infiltration Beds*, specification by UNH Stormwater Center, February, 2005.

1.6.2 *Porous Asphalt for Stormwater Management, Design, Construction, and Maintenance Guide*, Information Series 131, National Asphalt Pavement Association (NAPA), 2003.

1.6.3 *Design, Construction, and Maintenance of Open-Graded Friction Courses*, Information Series 115, NAPA, 2002.

1.6.4 *Annual Book of ASTM Standards*, American Society for Testing and Materials, Philadelphia, PA, 1997 or latest edition.

1.6.5 *Standards of the American Association of State Highway and Transportation Officials (AASHTO)*, 1998 or latest edition.

PART 2 – PRODUCT

2.1 Materials.

2.1.1 Porous Media Beds. The material layers underlying the porous asphalt pavement – including choker course, crushed stone (reservoir course) and filter course – shall conform to the requirements set forth in **Section 02510** of these Specifications.

2.1.2 Porous Asphalt Mix. Mix materials consist of polymer and/or fiber modified performance grade asphalt binder (PGAB) and coarse/fine aggregates. Materials shall meet the requirements of the NAPA *Design, Construction, and Maintenance of Open-Graded Friction Courses, Information Series 115* (2002), except where noted otherwise below or approved in writing by the Engineer.

2.1.2.1 Polymer Modified PGAB and Mix Designs. The asphalt binder shall be a polymer and fiber modified Performance Graded asphalt binder (PGAB) used in the production of Superpave Hot Mix Asphalt (HMA) mixtures and shall meet the requirements of AASHTO M320. The mix design shall be a **Pre-Blended PG 64-28 modified with styrene butadiene styrene (SBS) and 5 pounds of fibers per ton of asphalt mix**. The SBS shall be supplied by an approved PGAB supplier holding a Quality Control Plan approved by the RIDOT. A Bill of Lading (BOL) shall be delivered with each transport of PG 64-28 SBS and a copy of the BOL shall be furnished to the QA Inspector at the Plant. Mix designs shall meet or exceed criteria listed in Paragraph 2.1.2.5 below.

2.1.2.2 Anti-Stripping Mix Additives. The mix shall be tested for moisture susceptibility and asphalt stripping from the aggregate by AASHTO T283. If the retained tensile strength (TSR) < 80% upon testing, a heat stable additive shall be furnished to improve the anti-stripping

PAD MOUNTED TRANSFORMERS**PART 1 - GENERAL****1.1 SUMMARY**

1.1.1 This Section includes the following pad mounted transformers.

1.2 RELATED DOCUMENTS:

1.2.1 The General Conditions, Supplementary Conditions, and applicable portions of Division 1 of the specification are part of this section which shall consist of all labor, equipment, materials and other costs necessary to complete all PAD MOUNTED TRANSFORMERS work indicated on the drawings, herein specified or both.

1.2.2 The applicable portions of section 16050 BASIC ELECTRICAL MATERIALS AND METHODS are hereby make a part of this section. It is important that you read that section carefully because it expands upon the requirements herein.

1.3 SUBMITTALS

1.3.1 Product Data: For each product indicated.

1.3.2 Shop Drawings: Wiring and connection diagrams.

1.3.3 Field quality control reports.

1.4 QUALITY ASSURANCE

1.4.1 Electrical Components, Devices, and Accessories: Listed and labeled as defined in NFPA 70, Article 100, by a testing agency acceptable to authorities having jurisdiction, and marked for intended use.

1.4.2 Comply with the "National Electrical Safety Code".

1.4.3 Comply with applicable sections of NFPA 70.

PART 2 - PRODUCTS**2.1 PAD-MOUNTED TRANSFORMERS**

2.1.1 Manufacturers: Subject to compliance with requirements, provide products by one of the manufacturers listed.

- .1 General Electric Co.
- .2 Cutler-Hammer
- .3 ITE
- .4 Square D B. Rating:
- .5 kVA rating: 25
- .6 Single-phase

- .7 Oil-immersed, self-cooled
- .8 60 Hertz
- .9 65 C rise
- .10 Primary voltage: 2400 volts, 3 phase, delta
- .11 Secondary voltage: 120/240 Volts, 1 Phase
- .12 Energy rated: TP1

2.2 Taps:

- 2.2.1 Provide two 2-1/2% primary taps below nominal voltage and two 2-1/2% above.
- 2.2.2 Electrical contractor to field adjust tap for optimum nominal system secondary voltage.

2.3 General Construction Features:

- 2.3.1 Construct in accordance with ANSI Standard C57.12.26 (latest revision).
- 2.3.2 All characteristics, definitions, terminology, and voltage designations and tests, except as otherwise specified herein, shall be in accordance with the following American National Standard Requirements, Terminology, and Test Code for Distribution, Power, and Regulating Transformers:

- .1 General Requirements, C57.12.00 (IEEE Std. 462) (latest revision).
- .2 Terminal Markings and Connections, C57.12.70 (latest revision).
- .3 Terminology, C57.12.80, including Supplement C57.12.80a (latest revision).
- .4 Test Code, C57.12.90 (IEEE Std. 262) (latest revision).

2.3.3 The pad-mounted, compartmental-type transformer shall consist of the transformer tank with high-and low-voltage cable terminating compartment. The transformer tank and compartment shall be assembled as an integral unit for mounting on a pad. There shall be no exposed screws, bolts, or other fastening devices which are externally removable. There shall be no openings through which foreign objects such as sticks, rods, or wires might contact live parts. There shall be means for padlocking the compartment door(s). The construction shall limit the entry of water (other than flood water) into the compartment so as not to impair the operation of the transformer.

2.3.4 Full-height, air-filled incoming and outgoing terminal compartments with hinged doors shall be located side-by-side separated by a steel barrier, with the incoming compartment on the left. The high-voltage (incoming) compartment will be accessible only after the door to the low-voltage (outgoing) compartment has been opened. To facilitate making connections and permit cable pulling, the doors and compartment hood shall be skidding of unit into place over conduit studs in foundation.

2.3.5 The compartments will have hinged doors equipped for latching in the open position. The high-voltage compartment door will have a fastening device which is accessible only through the low-voltage compartment.

2.3.6 The hinge assemblies shall be made of corrosion-resistant material. Stainless-steel hinge pins of 3/8-inch minimum diameter will be provided.

2.3.7 Both compartment doors must be capable of being secured with a single padlock having a maximum 1/2-inch diameter shackle.

2.3.8 Lifting provisions in accordance with ANSI Standards shall be provided.

2.3.9 Jacking and rolling provisions shall be provided.

2.3.10 The instruction nameplate is to be located in the low-voltage portion of the compartment and shall be readable with cables in place. Where the nameplate is mounted on a removable part, the manufacturer's name and transformer serial number shall be permanently affixed to a non-removable part.

2.3.11 Transformer tank shall be sealed-tank construction with a welded main cover.

2.3.12 A bolted tamper-resistant handhole shall be provided in the tank cover for access to internal connections.

2.3.13 Provisions for tank grounding shall be supplied in both the high-voltage and low-voltage compartments.

2.4 Accessories: One-inch filling provision, one-inch drain valve and sampler, dial-type thermometer, Liquid-level gauge and Vacuum/pressure gauge.

2.5 Primary Compartment:

2.5.1 Equip the incoming primary section with three 200 ampere loadbreak integrated bushings (combining the function of bushing well and switch module). Provide matching 200 ampere load break molded shield elbows.

2.5.2 Provide an internal, oil-immersed, gang-operated, two position (ON/OFF) loadbreak, manually operated switch. The switch must be capable of switching transformer full-load current. The switch handle shall be located in the primary compartment and must be hot-stick operable.

2.5.3 Provide three current-limiting fuses in non-loadbreak, dry-well fuse holders. The fuse holder must accept either G.E. or McGraw Edison general-purpose, distribution current limiting fuses with an interrupting capacity of 50,000 amperes. The fuse holders shall be located in the primary compartment and be hot-stick operable for external replacement of the fuses.

2.5.4 Provide three (3) lightning arrestors.

2.6. Secondary Compartment:

2.6.1 Low-voltage bushings shall be tinned, spade-type with 9/16-inch holes spaced on 1-3/4 inch centers in accordance with the Latest Revisions of ANSI.

2.7 Temporary Heating: enclosure, thorough periods during which equipment is not energized and when transformer is not in a space that is continually under normal control of temperature and humidity.

PART 3 - EXECUTION**3.1 INSTALLATION**

3.1.1 Install transformers and accessories according to NEMA and NECA standards.

3.1.2 Temporary Lifting Provisions: After installation, remove temporary lifting eyes, channels, and brackets and temporary blocking of moving parts from equipment and components.

3.1.3 Re-Torque: Once in final location, carefully re-torque all connections with a torque wrench, to match manufacturers recommendations.

3.2 FIELD QUALITY CONTROL

3.2.1 Perform the following electrical tests and visual and mechanical inspections stated in NEMA ATS. Certify compliance with test parameters. (Exclude optional tests.)

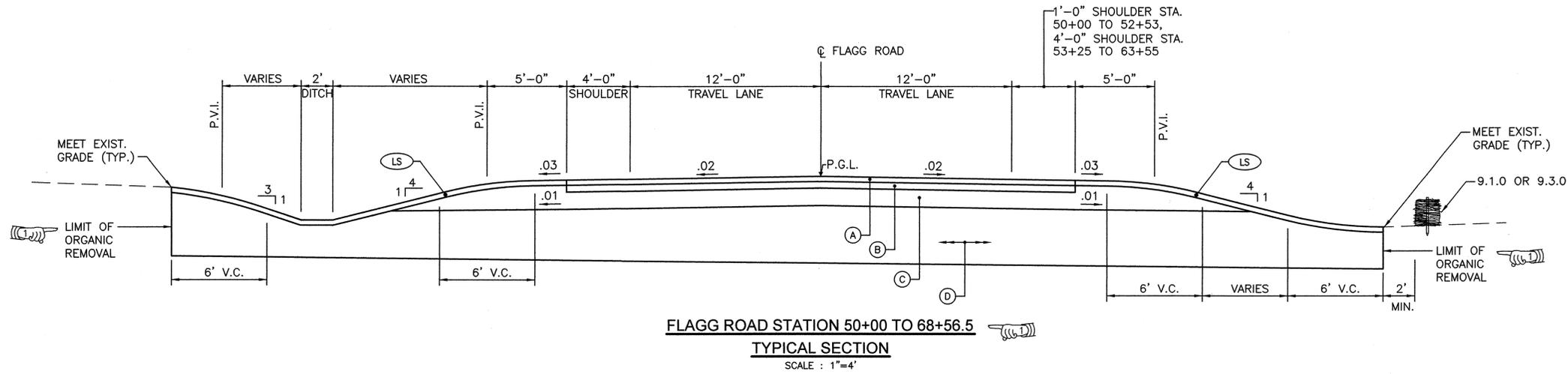
- .1 Section 7.2 Liquid-Filled Transformers
- .2 Section 7.1 Switchgear and Switchboard Assemblies

PART 4 – MEASUREMENT Not applicable

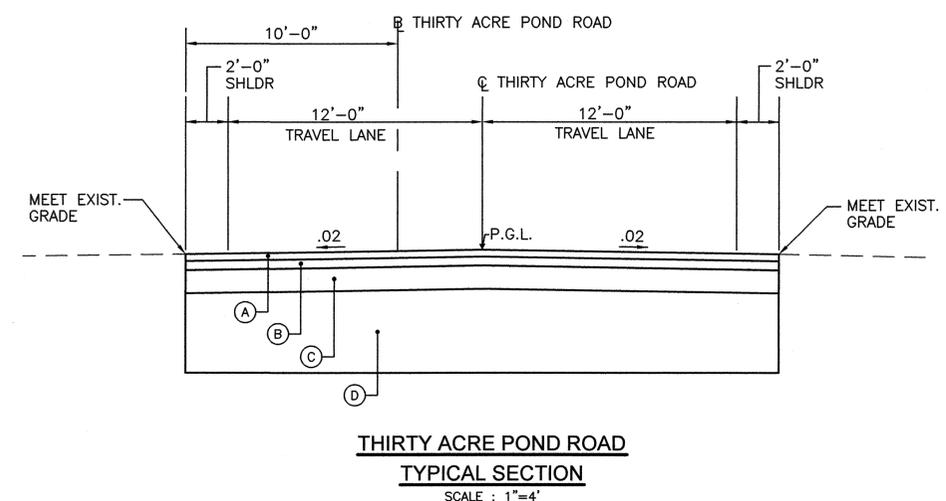
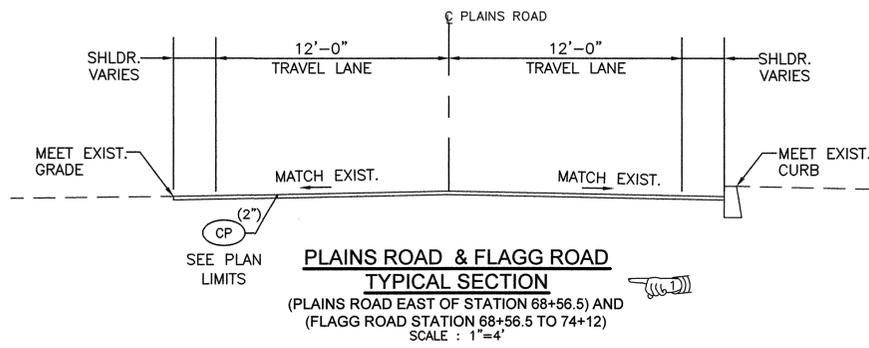
Part 5 – PAYMENT**5.1 Basis of Payment**

5.1.1 Payment for Pad Mounted Transformers for Flagg Road Parking Lot will not be paid separately, but payment will be included in the Lump Sum price listed in Alternate No. 2 for Construction of Flagg Road Parking Lot, complete. **Caveat;** That part of the lump sum price represents payment for the work of this Section 16310 constitutes full and complete compensation for all labor, materials and equipment and for all other incidentals required to finish this work, complete and accepted by the Engineer.

END OF SECTION 16310



- LEGEND**
- (A) 2" BITUMINOUS SURFACE COURSE TYPE I-1
 - (B) 3" BITUMINOUS BASE COURSE
 - (C) GRAVEL BORROW SUBBASE COURSE
12" IN FILL
18" IN EARTH CUT
24" IN ROCK CUT
 - (D) REMOVE ORGANIC MATERIAL, REPLACE WITH COMMON BORROW (4' DEPTH)
 - (LS) 4" LOAM AND SEED
 - P.G.L. PROFILE GRADE LINE
 - (CP) COLD PLANE



PROJECT
**FLAGG ROAD
EXTENSION**

TODD RAVENHILL
No. 5928
REGISTERED PROFESSIONAL ENGINEER

CLIENT
UNIVERSITY OF RHODE ISLAND

Gordon R. Archibald, Inc.
Civil and Environmental Engineers
Pawtucket, Rhode Island

DRAWING TITLE
TYPICAL SECTIONS

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		BY	TAR
1	7/5/12	ADDENDUM 3	

PROJECT NO.: 1255

DATE: MARCH 2012

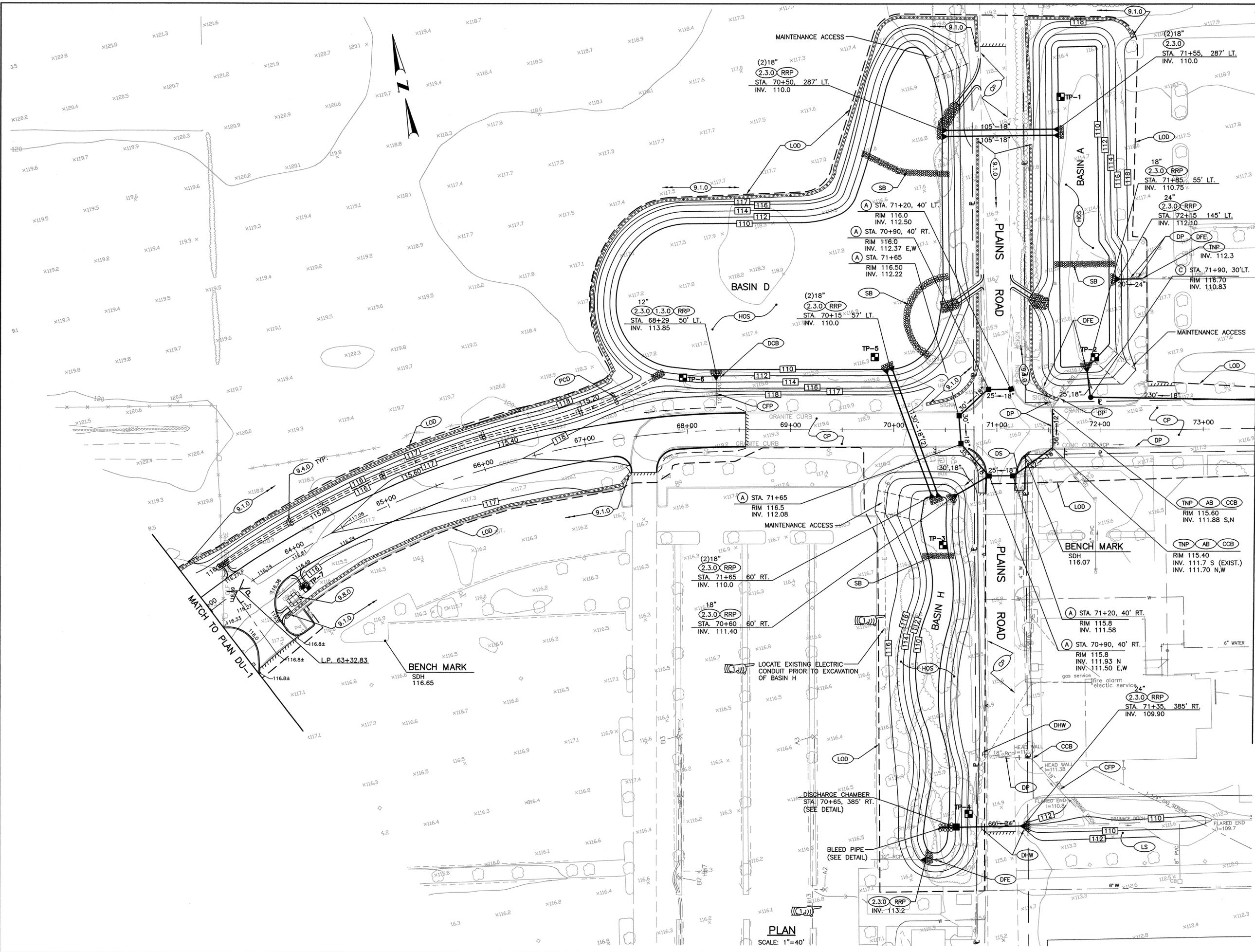
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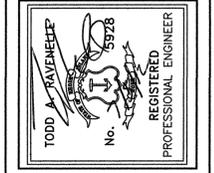
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DRAWING NUMBER
3
SHEET 3 OF 15

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PROJECT
**FLAG ROAD
 EXTENSION**



CLIENT
UNIVERSITY OF RHODE ISLAND

Gordon R. Archibald, Inc.
 Civil and Environmental Engineers
 Pawtucket, Rhode Island

DRAWING TITLE
GRADING & DRAINAGE PLAN 2

NO.	DATE	REVISIONS	BY	TAR
1	7/25/12	ADDENDUM 3		

PROJECT NO.: 1255

DATE: MARCH 2012

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DRAWN BY: LBD

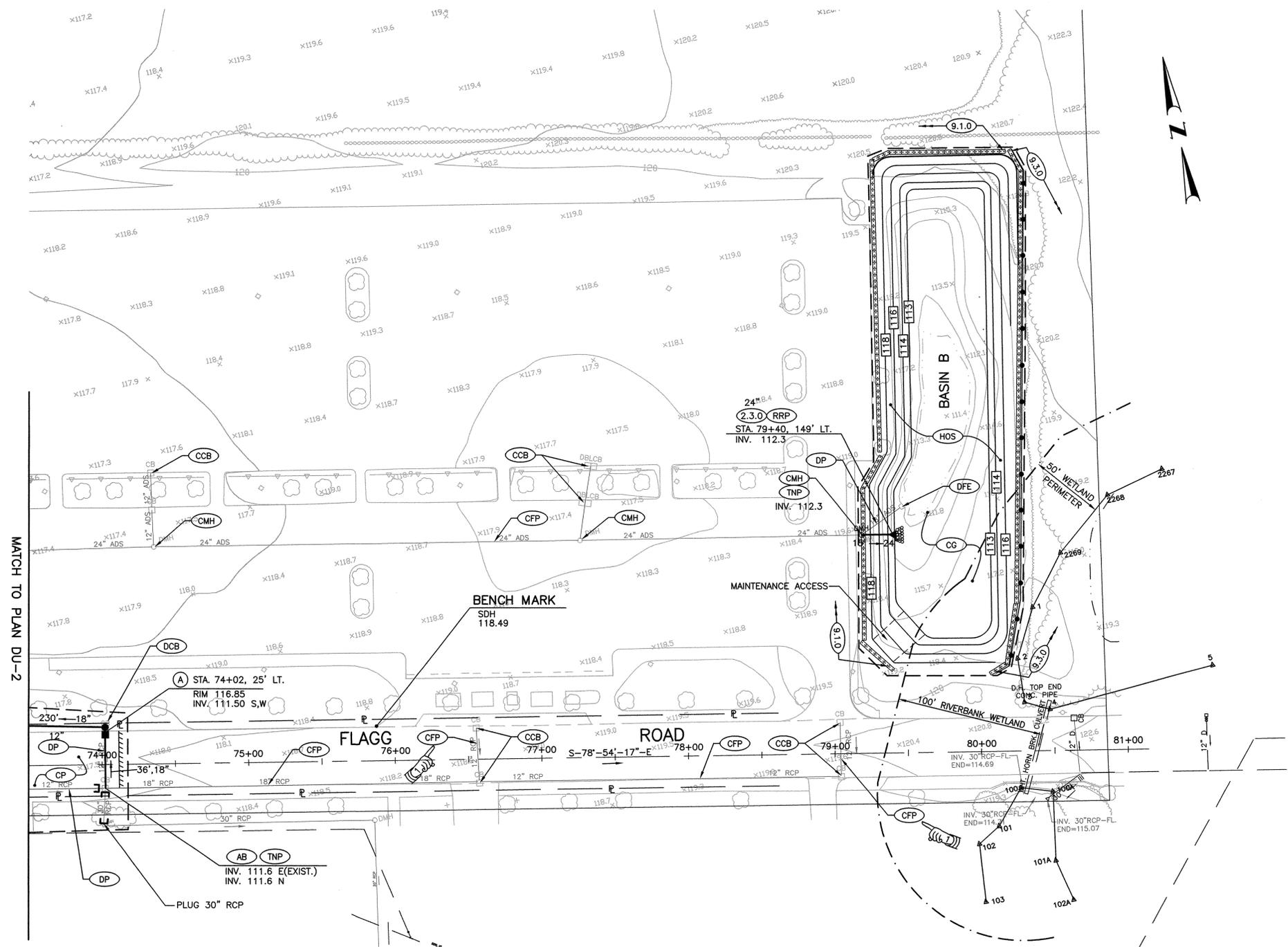
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SHEET 8 OF 15

MATCH TO PLAN DU-3

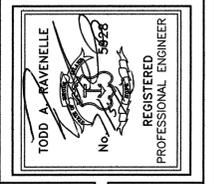
PLAN
 SCALE: 1"=40'



MATCH TO PLAN DU-2



PROJECT
**FLAG ROAD
EXTENSION**



CLIENT
UNIVERSITY OF RHODE ISLAND

Gordon R. Archibald, Inc.
Civil and Environmental Engineers
Pawtucket, Rhode Island

DRAWING TITLE
GRADING & DRAINAGE PLAN 3

NO.	DATE	REVISIONS	BY	TAR
1	7/5/12	ADDENDUM 3		

PROJECT NO.: 1255

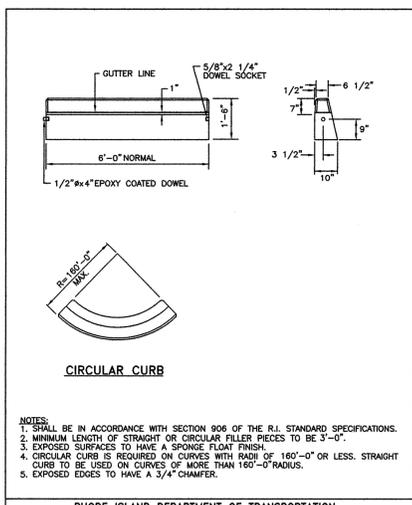
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SCALE: 1"=40'

DRAWN BY: LBD

CHECKED BY: TAR

DRAWING NUMBER
9
SHEET 9 OF 15



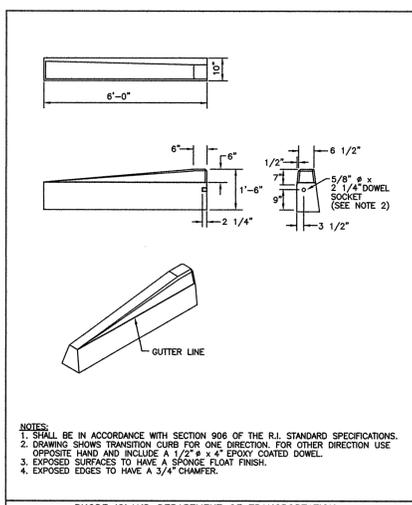
RHODE ISLAND DEPARTMENT OF TRANSPORTATION

PRECAST CONCRETE CURB

NO.	BY	DATE
1	M.P.	05/15/98

JUNE 15, 1998

R.I. STANDARD 7.1.0



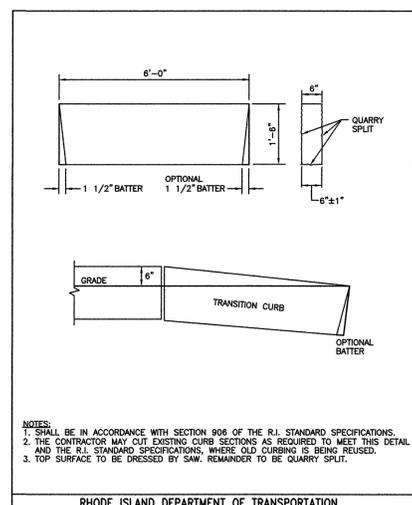
RHODE ISLAND DEPARTMENT OF TRANSPORTATION

6'-0" PRECAST CONCRETE TRANSITION CURB

NO.	BY	DATE
1	M.P.	05/15/98

JUNE 15, 1998

R.I. STANDARD 7.1.2



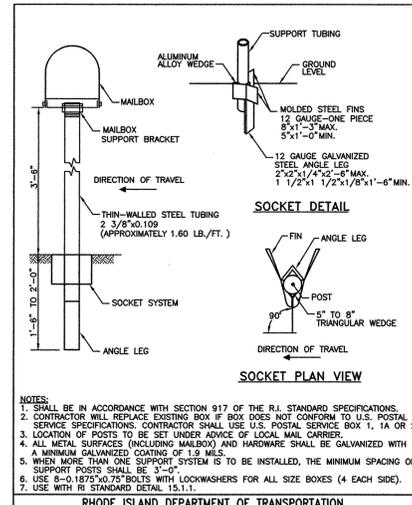
RHODE ISLAND DEPARTMENT OF TRANSPORTATION

6'-0" GRANITE TRANSITION CURB

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JUNE 15, 1998

R.I. STANDARD 7.3.2



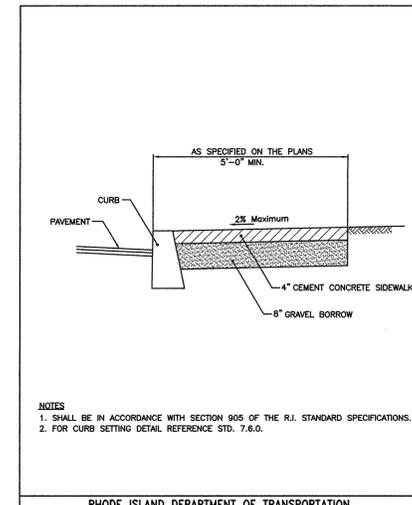
RHODE ISLAND DEPARTMENT OF TRANSPORTATION

POST AND MOUNTING FOR RURAL MAILBOX

NO.	BY	DATE
1	M.P.	05/07/98

JUNE 15, 1998

R.I. STANDARD 15.1.0



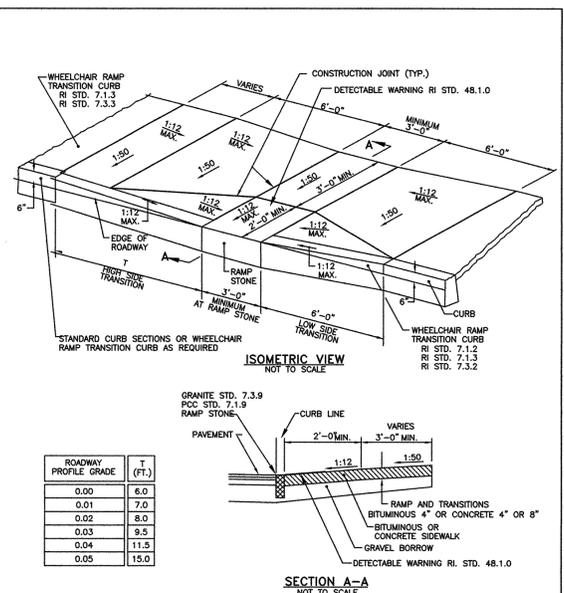
RHODE ISLAND DEPARTMENT OF TRANSPORTATION

CEMENT CONCRETE SIDEWALK

NO.	BY	DATE
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2	M.P.	05/17/98

JUNE 15, 1998

R.I. STANDARD 43.1.0



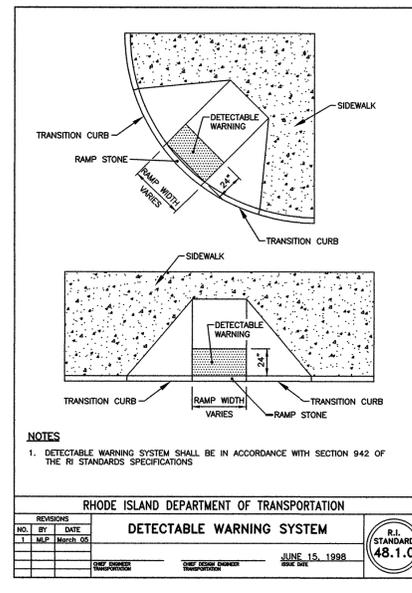
RHODE ISLAND DEPARTMENT OF TRANSPORTATION

WHEELCHAIR RAMP

ROADWAY PROFILE GRADE	(FT.)
0.00	6.0
0.01	7.0
0.02	8.0
0.03	9.5
0.04	11.5
0.05	15.0

JUNE 15, 1998

R.I. STANDARD 43.3.0



RHODE ISLAND DEPARTMENT OF TRANSPORTATION

DETECTABLE WARNING SYSTEM

NO.	BY	DATE
1	M.P.	05/15/98

JUNE 15, 1998

R.I. STANDARD 48.1.0

PROJECT

FLAGG ROAD EXTENSION

TODD A. BAVENHELE
No. 5928
REGISTERED PROFESSIONAL ENGINEER

CLIENT

UNIVERSITY OF RHODE ISLAND

Gordon R. Archibald, Inc.
Civil and Environmental Engineers
Pawtucket, Rhode Island

DRAWING TITLE

DETAIL SHEET 3

NO.	DATE	REVISIONS	BY	TAR
1	7/5/02	ADDENDUM 3		

PROJECT NO.: 1255

DATE: MARCH 2012

SCALE: NONE

DRAWN BY: LBD

CHECKED BY: TAR

DRAWING NUMBER

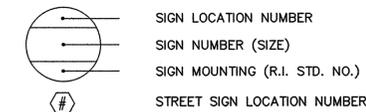
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SHEET 15 OF 15

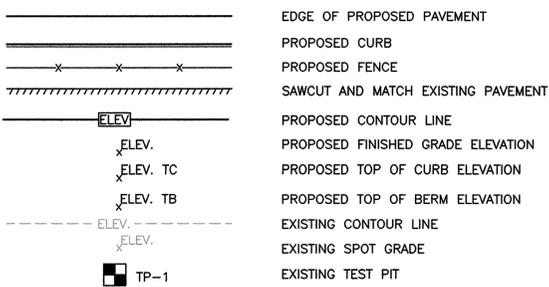
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LEGEND

- (2.3.0) (DIA.) PRECAST CONCRETE FLARED END SECTION
- (4.4.0) (DIA.) PRECAST 4'-0", 5'-0", OR 6'-0" ROUND CATCH BASIN
- (4.7.2) ALTERNATE TOP COVER FOR ROUND PRECAST MANHOLES AND CATCH BASINS
- (5.3.0) CATCH BASIN AND MANHOLE STEP
- (6.2.1) HEAVY-DUTY ROUND FRAME AND COVER
- (6.3.2) SQUARE FRAME AND GRATE (BICYCLE SAFE)
- (7.1.0) PRECAST CONCRETE CURB
- (7.1.2) 6'-0" PRECAST CONCRETE TRANSITION CURB
- (8.1.0) SEED DITCH
- (8.3.0) RIP-RAP DITCH
- (8.4.0) PAVED WATERWAY
- (9.1.0) BALED HAY EROSION CHECK
- (9.2.0) SILT FENCE DETAIL
- (9.3.0) BALED HAY DITCH EROSION CHECK AND SILT FENCE COMBINED
- (9.4.0) BALED HAY DITCH AND SWALE EROSION CHECK
- (9.8.0) BALED HAY CATCH BASIN INLET PROTECTION
- (9.9.0) CONSTRUCTION ACCESS
- (20.1.0) PAVEMENT MARKINGS - ARROWS AND ONLY
- (24.2.0) SIGN POST SELECTION AND INSTALLATION DETAILS U-CHANNEL POST
- (26.1.0) FLUORESCENT TRAFFIC CONE
- (26.2.0) POLYETHYLENE DRUM WITH MARKINGS
- (26.3.0) PVC PLASTIC PIPE TYPE III BARRICADE
- (27.1.1) TRAFFIC FINES IN WORK ZONE REGULATORY SIGN
- (29.1.0) CONSTRUCTION SIGNS
- (43.3.0) WHEELCHAIR RAMP
- (47.1.1) TRANSVERSE PAVEMENT CUT AND MATCH
- (48.1.0) DETECTABLE WARNING SYSTEM
- (50.1.0) LARGE TREE STAKING AND PLANTING DETAIL (2" CALIPER AND GREATER)
- (50.1.1) TREE PLANTING ON SLOPE
- (50.2.0) EVERGREEN TREE PLANTING DETAIL (4'-0" HIGH AND GREATER)
- (50.3.0) BALL AND BURLAP SHRUB PLANTING DETAIL
- (50.3.1) CONTAINER GROWN SHRUB PLANTING DETAIL
- (CG) CLEARING AND GRUBBING
- (LOD) LIMIT OF DISTURBANCE
- (LS) 4" LOAM AND SEED
- (PWV) PAVED WATERWAY
- (RDC) REMOVE AND DISPOSE CURB
- (RDF) REMOVE AND DISPOSE FENCE
- (RDL) REMOVE AND DISPOSE LITE POLE
- (RDP) REMOVE AND DISPOSE PAVEMENT
- (RDS) REMOVE AND DISPOSE SHRUBS
- (RDT) REMOVE AND DISPOSE TREE
- (4DY) 4" EPOXY RESIN PAVEMENT MARKINGS - DOUBLE YELLOW
- (6W) 6" EPOXY RESIN PAVEMENT MARKINGS - WHITE
- (12W) 12" EPOXY RESIN PAVEMENT MARKINGS - WHITE
- (A) BEEHIVE GRATE AND BASIN
- (B) RI. STD. 4.4.0, 5.3.0, & 6.3.2 WITH 4' SUMP & OIL WATER SEPARATOR



TYPICAL SIGN DESIGNATION SYMBOL



GENERAL NOTES

1. REFERENCE IS MADE TO THE RIDOT 2004 EDITION "STANDARD AND SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" INCLUDING ALL APPROVED COMPIATION OF SPECIFICATIONS; AND RIDOT 1998 "STANDARD DETAILS" INCLUDING ALL REVISIONS. ALL PROJECT SITE IMPROVEMENTS SHALL CONFORM TO THESE REGULATIONS AND THE SUB-REFERENCES INCORPORATED THEREIN.
2. EXISTING UTILITIES HAVE BEEN PLOTTED FROM BEST AVAILABLE DATA AND ARE APPROXIMATE ONLY. THE CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL EXISTING DRAINAGE AND UTILITIES BOTH UNDERGROUND AND OVERHEAD BEFORE EXCAVATION BEGINS IN ACCORDANCE WITH THE "DIG SAFE LAW" ENACTED BY R.I. LEGISLATURE BILL NO. 795-291, WHICH BECAME EFFECTIVE JULY 1, 1979 AND BY CONTACTING THE INDIVIDUAL UTILITY COMPANIES. EXCAVATION SHALL BE IN ACCORDANCE WITH ALL STATUTES, ORDINANCES, RULES AND REGULATIONS OF ANY APPLICABLE CITY, TOWN, STATE OR FEDERAL AGENCY, THE CONTRACTOR SHOULD UNDERSTAND THAT NOT ALL UTILITIES SUBSCRIBE TO THE DIG SAFE PROGRAM. IT IS THE CONTRACTORS RESPONSIBILITY TO NOTIFY ALL UTILITY COMPANIES AND ENSURE THAT ALL UTILITIES HAVE BEEN MARKED PRIOR TO COMMENCING THEIR WORK. ANY DAMAGE TO EXISTING UTILITIES MARKED IN THE FIELD, OR AS A RESULT OF FAILING TO CONTACT THE APPROPRIATE UTILITY COMPANY, SHALL BE REPAIRED OR REPLACED AT NO COST TO THE OWNER.
3. CONTRACTOR SHALL RECOGNIZE THAT WORK UNDER EXISTING OVERHEAD UTILITIES IS REQUIRED AND THAT MINIMUM CLEARANCE SHALL CONFORM TO UTILITY COMPANY REQUIREMENTS AND SHALL BE MAINTAINED AT ALL TIMES. THIS MAY REQUIRE SPECIAL CONSTRUCTION TECHNIQUES. SHOULD THE CONTRACTOR ELECT TO RELOCATE THE EXISTING OVERHEAD UTILITIES, THEN THE CONTRACTOR SHALL COORDINATE AND BEAR ALL ASSOCIATED COSTS.
4. THE CONTRACTOR SHALL MAINTAIN ALL EXCAVATION IN A DRY CONDITION. NO SEPARATE PAYMENT OR ALLOWANCE SHALL BE MADE FOR DEWATERING.
5. FILL NEEDED FOR THE ROADWAY EMBANKMENT SHALL MEET SECTION M.01.01 COMMON BORROW OF THE RIDOT STANDARDS AND SPECIFICATIONS, 2004 EDITION UNLESS OTHERWISE NOTED.
6. ALL GRASSED AREAS DISTURBED BY THE CONTRACTOR SHALL BE LOAMED AND SEEDED OR SODDED IF SO DIRECTED BY THE ENGINEER AND RETURNED TO THEIR ORIGINAL CONDITION. ALL OTHER VEGETATED OR WOODED AREAS DISTURBED SHALL BE LOAMED AND SEEDED.
7. ALL EXISTING CURBING, SIDEWALK, AND OTHER PAVEMENT DISTURBED BY THE CONTRACTOR SHALL BE REPLACED AND RESTORED, IN KIND AT NO ADDITIONAL COST TO THE OWNER.
8. ALL EXISTING PIPE, SUBSURFACE STRUCTURES, PAVEMENTS, EXCESS EXCAVATED MATERIALS AND MISCELLANEOUS MATERIALS REMOVED DURING THE COURSE OF WORK OF INSTALLING DRAINAGE, WATER AND SEWER PIPING SHALL BE LEGALLY DISPOSED OF OFF THE PROJECT SITE BY THE CONTRACTOR.
9. CONTINUOUS DUST CONTROL, USING CALCIUM CHLORIDE OR OTHER APPROVED METHODS, SHALL BE PROVIDED BY THE CONTRACTOR FOR ALL EARTH STOCKPILES, EARTH PILED ALONG EXCAVATIONS AND SURFACES OF BACK FILLED TRENCHES, AS DIRECTED AND SPECIFIED BY THE ENGINEER.
10. THE CONTRACTOR SHALL GIVE NOTICES AND COMPLY WITH ALL PERMITS, LAWS, ORDINANCES, RULES AND REGULATIONS BEARING ON THE CONDUCT OF THE WORK AS DRAWN AND SPECIFIED.
11. ALL SOIL EROSION CONTROL MEASURES TO BE USED ON THE PROJECT ARE INDICATED ON THE PLANS. EROSION CONTROL MEASURES SHALL BE IN CONFORMANCE WITH THE PROVISIONS OF THE RHODE ISLAND SOIL EROSION & SEDIMENT CONTROL HANDBOOK.
12. PRIOR TO COMMENCEMENT OF CONSTRUCTION ACTIVITIES, A CONTINUOUS UNINTERRUPTED LINE OF STAKED HAY BALES OR SILT FENCING SHALL BE INSTALLED IN LOCATIONS SHOWN ON THE PLANS AND MAINTAINED IN EFFECTIVE CONDITION UNTIL DISTURBED AREAS HAVE BEEN STABILIZED WITH VEGETATION. FOLLOWING SUCCESSFUL STABILIZATION OF DISTURBED AREAS, ALL SILT FENCING AND HAY BALES SHALL BE REMOVED. PRIOR TO REMOVAL OF THE SILT FENCING AND HAY BALES, ALL ACCUMULATED TRAPPED SEDIMENT MUST BE REMOVED TO A SUITABLE UPLAND SITE.
13. UNTIL VEGETATIVE COVER IS ESTABLISHED AND DISTURBED AREAS ARE STABILIZED, ACCUMULATED SEDIMENTS SHALL BE REMOVED AS SOON AS SEDIMENTS HAVE ACCUMULATED TO A DEPTH OF SIX (6) INCHES.
14. THE LIMITS OF ALL CLEARING, GRADING AND DISTURBANCE SHALL BE KEPT TO A MINIMUM WITHIN THE PROPOSED AREA OF CONSTRUCTION. ALL AREAS OUTSIDE THE LIMITS OF DISTURBANCE SHALL BE TOTALLY UNDISTURBED.
15. SOIL STOCKPILES AND DEPOSITION AREA FOR CONSTRUCTION MATERIALS SHALL BE LOCATED WITHIN THE LIMIT OF WORK AND SHALL BE SURROUNDED BY STAKED HAY BALES.
16. TEMPORARY VEGETATION AND/OR HAY MULCHING SHALL BE USED TO PROTECT BARE AREAS AND STOCKPILES FROM EROSION DURING CONSTRUCTION. BARE EARTH SLOPES AND SOIL STOCKPILES SHALL BE KEPT TO A MINIMUM AT ALL TIMES. TEMPORARY SEEDING OR MULCHING SHALL BE INSTALLED ON ALL BARE EARTH PRIOR TO ENDING CONSTRUCTION FOR WINTER AND AS OTHERWISE NECESSARY. AS SOON AS WEATHER PERMITS AFTER THE COMPLETION OF FINE GRADING, ALL DISTURBED AREAS SHALL BE PERMANENTLY STABILIZED WITH PLACEMENT OF LOAM AND THE SPECIFIED GRASS SEED MIXTURE, AND COVERED WITH A MAT OF LOOSE HAY PRIOR TO THE COMPLETION OF THE PROJECT. APPROVED SOC SHALL BE USED IN LIEU OF SEEDING AS DIRECTED BY THE ENGINEER. AREAS WHERE WORK IS TO CEASE FOR 14 DAYS AND NOT SET TO RESUME WITHIN 21 DAYS SHALL RECEIVE TEMPORARY VEGETATIVE COVER AND BE COMPLETELY COVERED WITH LOOSE HAY MULCH.
17. PLANTING OF GRASS SHALL BE ACCOMPLISHED BY THE CONTRACTOR AS EARLY AS POSSIBLE UPON COMPLETION OF GRADING AND CONSTRUCTION.
18. ALL DISTURBED AREAS NOT BE COVERED WITH PAVEMENT WITHIN THE PROJECT WILL RECEIVE PERMANENT VEGETATION. DISTURBED AREAS WILL BE FINE GRADED AND RECEIVE 4 INCHES OF TOP SOIL.
19. AT LEAST TWO TEST PITS SHALL BE DUG AT EACH UNDERGROUND UTILITY TO DETERMINE LOCATION AND MATERIAL.

EROSION AND SEDIMENT CONTROL NOTES

1. DENUEDED SLOPES SHALL NOT BE UNATTENDED OR EXPOSED IN AREAS WHERE WORK IS TO CEASE FOR 14 DAYS AND NOT SET TO RESUME WITHIN 21 DAYS OR THE INACTIVE WINTER SEASON.
2. ALL DISTURBED SLOPES EITHER NEWLY CREATED OR EXPOSED PRIOR TO OCTOBER 15, SHALL BE SEEDED OR PROTECTED BY THAT DATE FOR ANY WORK COMPLETED DURING EACH CONSTRUCTION YEAR.
3. THE TOPSOIL SHALL HAVE A SANDY LOAM TEXTURE RELATIVELY FREE OF SUBSOIL MATERIAL, STONES, ROOTS, LUMPS OF SOIL, TREE LIMBS, TRASH OR CONSTRUCTION DEBRIS AND SHALL CONFORM WITH R.I. STANDARD SPECIFICATION M.18.01.
4. THE SEEDED MIX SHALL BE INOCULATED WITHIN 24 HOURS, BEFORE MIXING AND PLANTING, WITH APPROPRIATE INOCULUM FOR EACH VARIETY.
5. THE DESIGN MIX SHALL BE COMPRISED OF THE FOLLOWING:

MIXTURE	BY WT.	SEEDING DATE
RED FESCUE	70	APRIL 1 - JUNE 13
KENTUCKY BLUEGRASS	15	AUG. 15 - OCT. 15
COLONIAL BENTGRASS	5	
PERENNIAL RYEGRASS	10	
TOTAL 100 LBS./ACRE		
6. TEMPORARY TREATMENTS SHALL CONSIST OF A HAY, STRAW, OR FIBER MULCH OR PROTECTIVE COVERS SUCH AS A MAT OR FIBER LINING (BURLAP, JUTE, FIBERGLASS NETTING, EXCELSIOR BLANKETS) THEY SHALL BE INCORPORATED INTO THE WORK AS WARRANTED OR AS ORDERED BY THE ENGINEER.
7. HAY OR STRAW APPLICATIONS SHOULD BE IN THE AMOUNT OF 3,000-4,000 LBS./ACRE.
8. ALL HAY BALES, SILT FENCES OR TEMPORARY PROTECTION SHALL REMAIN IN PLACE UNTIL AN ACCEPTABLE STAND OF GRASS OR APPROVED GROUND COVER IS ESTABLISHED AND THE PROJECT RECEIVES A FAVORABLE APPROVAL FOR FINAL ACCEPTANCE FROM THE ENGINEER. IF NEEDED TEMPORARY SEEDING CAN HELP TO MINIMIZE EROSION. A TEMPORARY SEEDING GUIDE MUST BE INCLUDED AS A REFERENCE. THE FOLLOWING SPECIES ARE RECOMMENDED:

SPECIES	LBS./AC.	LBS./1,000 SQ.FT.	SEEDING DATE
ANNUAL RYEGRASS	40-60	1.0-1.5	3/1-6/1
PERENNIAL RYEGRASS	40-60	1.0-1.5	3/1-6/1
SUDAN GRASS	30-40	0.7-1.0	5/15-8/15
MILLET	30-40	0.7-1.0	5/15-8/15
WINTER RYE	120	3.0	4/15-6/15
OATS	86-120	0.5-5.0	3/1-6/15
WEEPING	5-20	0.5-5.0	5/1-7/1
9. THE CONTRACTOR MUST REPAIR AND OR RESEED ANY AREAS THAT DO NOT DEVELOP WITHIN THE PERIOD OF ONE YEAR AND HE SHALL DO SO AT NO ADDITIONAL EXPENSE.
10. THE NORMAL ACCEPTABLE SEASONAL SEEDING DATES ARE APRIL 1ST - JUNE 1ST AND AUGUST 15TH TO OCTOBER 15TH.
11. STABILIZATION OF ONE FORM OR ANOTHER AS DESCRIBED ABOVE SHALL BE ACHIEVED WITHIN 15 DAYS OF FINAL GRADING.
12. DURING CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING DRAINAGE AND RUNOFF FLOW DURING STORMS AND PERIODS OF RAINFALL.
13. EROSION CONTROL DEVICES SHOULD INSPECTED WEEKLY AND AFTER RAINFALL EVENTS OF > 1/2" IN A 24-HOUR PERIOD. MAINTENANCE AND REPAIRS SHALL BE COMPLETED WITH 24 HOURS OF THE INSPECTION WHEN NECESSARY.
14. IMMEDIATELY UPON COMPLETION OF THE CLEARING AND GRUBBING OPERATION AND PRIOR TO ANY ROUGH GRADING, TEMPORARY HAY BALES OR SILT FENCES SHALL BE PLACED AS INDICATED ON THE PLANS.
15. ALL EROSION AND SEDIMENTATION CONTROL STRUCTURES SHALL BE PERIODICALLY MAINTAINED AS PER THE RESPECTIVE PROGRAMS DURING THE CONSTRUCTION.

DRAINAGE SYSTEM NOTES

1. PERMEABLE PAVEMENT SHALL BE PRE-BLENDED PERFORMANCE GRADE 64-28 MODIFIED WITH STYRENE BUTADIENE STYRENE (SBS) AND 5 POUNDS OF FIBERS PER TON OF ASPHALT MIX. THE SBS WILL BE SUPPLIED BY AN APPROVED PGAB SUPPLIER HOLDING A QUALITY CONTROL PLAN APPROVED BY THE RIDOT. A BILL OF LADING (BOL) WILL BE DELIVERED WITH EACH TRANSPORT OF PG 64-28 SBS. A COPY OF THE BOL WILL BE FURNISHED TO THE QUALITY ASSURANCE INSPECTOR AT THE PLANT.
2. GRAVEL BORROW AND CRUSHED STONE SHALL MEET THE REQUIREMENT OF THE RIDOT STANDARD SPECIFICATIONS, SECTION M.01.09, TABLE I, COLUMN I AND II.
3. CHOKER STONE SHALL MEET THE REQUIREMENTS OF AASHTO NO. 57.
4. SAND SHALL MEET THE REQUIREMENTS OF AASHTO M-6, AND SHALL BE POORLY GRADED.

STORMWATER MAINTENANCE NOTES

1. ALL MAINTENANCE (INCLUDING CLEANING) REQUIRED DURING CONSTRUCTION PHASE OF THE PROJECT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL INCLUDE:
 - MEASURES NEEDED TO ENSURE THE PROPER OPERATION OF THE STORM WATER RUNOFF (DRAINAGE) AND WATER QUALITY CONTROL SYSTEMS TO INCLUDE INSPECTION, CLEANING AND REPAIRS TO THE INFILTRATION BASIN SYSTEM INCLUDING ALL PIPES, SWALES, INTAKE AND DISCHARGE STRUCTURES, CATCH BASIN SUMPS, AND MANHOLES.
 - INSPECTION OF ALL SLOPES, BERMS, AND OTHER CONTROL STRUCTURES FOR STRUCTURAL INTEGRITY/STABILITY AND EVIDENCE OF SOIL EROSION PROCESSES, AND MAINTENANCE OF THESE STRUCTURES IF NECESSARY. INSPECTIONS SHALL BE PERFORMED FOLLOWING ALL RAIN EVENTS OF 1/2 INCH RAINFALL OR MORE IN A 24-HOUR PERIOD, OR BI-MONTHLY IF NO RAINFALL EVENT OCCURS.
2. UPON COMPLETION OF PROJECT CONSTRUCTION, AND PRIOR TO VACATING THE SITE, THE CONTRACTOR SHALL CONDUCT A FINAL INSPECTION AND CLEANING OF THE DRAINAGE SYSTEM AND ALL ASSOCIATED STRUCTURES.
3. AFTER THE COMPLETION OF THE ENTIRE PROJECT TO THE SATISFACTION OF THE ENGINEER, ALL MAINTENANCE OF THE DRAINAGE SYSTEM SHALL THEN BE THE RESPONSIBILITY OF THE UNIVERSITY OF RHODE ISLAND OR THEIR APPOINTED AGENTS.
4. ELEMENTS ASSOCIATED WITH THE FLAGG ROAD INFILTRATION BASIN SHALL BE INSPECTED, CLEANED AND MAINTAINED (ROUTINE MAINTENANCE) A MINIMUM OF TWO (2) TIMES IN A GIVEN CALENDAR YEAR TO ENSURE THAT ALL SYSTEM ELEMENTS ARE FUNCTIONING PROPERLY AND THAT DESIGN INFILTRATION RATES ARE BEING MET (SYSTEMS COMPLETELY DRAINING BETWEEN STORM EVENTS). THIS INFILTRATION SYSTEM SHALL BE INSPECTED AFTER ALL STORM EVENTS EQUAL TO OR GREATER THAN THE 1-YEAR, 24-HOUR, TYPE III STORM EVENT. FOR WASHINGTON COUNTY, THIS CORRESPONDS TO 2.8 INCHES OF RAIN WITHIN A 24-HOUR PERIOD.
5. CLEANING AND ROUTINE MAINTENANCE OF CATCH BASINS, OUTLETS, FOREBAYS, AND OTHER ELEMENTS ASSOCIATED WITH THE FLAGG ROAD INFILTRATION BASIN SHALL INCLUDE THE REMOVAL OF ALL ACCUMULATED SEDIMENTS (EITHER MANUALLY OR BY VACUUM TRUCK) AND DEBRIS, MAINTENANCE OF OIL-WATER-DEBRIS SEPARATORS, AND OTHER ACTIVITIES AS REQUIRED TO ENSURE THE CONTINUED OPERATIONAL PERFORMANCE OF THE SYSTEM. ANY BARE SPOTS OR ERODED AREAS WITHIN SWALES, FOREBAYS, OR THE BASIN MUST BE REPLANTED AND/OR STABILIZED IMMEDIATELY FOLLOWING OBSERVATIONS TO PREVENT SUBSEQUENT EROSION OR CLOGGING. SHOULD THE INSPECTION OF THE SYSTEM REVEAL ANY EVIDENCE OF SEDIMENT ACCUMULATION WITHIN THE BASIN ITSELF, SEDIMENTS SHALL BE REMOVED AND THE SURFACE LAYER RESTORED TO ITS ORIGINAL DEPTH AND CONDITION.
6. BY ITS NATURE, THE INFILTRATION BASIN HAS AN OPERATIONAL LIFE CYCLE THAT WILL REQUIRE THE DEEP TILLING AND RESEEDING OF THE BASIN FLOOR TO RESTORE THE DESIGN INFILTRATION RATE THROUGH THE SURFACE LAYER (WHICH BECOMES REDUCED OVER TIME DUE TO CLOGGING, BLINDING, AND/OR OTHER FACTORS). THIS TILLING SHOULD BE PERFORMED APPROXIMATELY ONCE EVERY 5-10 YEARS, WHEN INFILTRATION CAPACITY IS DIMINISHED TO THE POINT WHERE STANDING WATER REMAINS IN THE BASIN MORE THAN 72 HOURS FOLLOWING A RAINFALL EVENT. THE TILLING/RESEEDING OPERATION SHALL BE CONDUCTED DURING THE SPRING OR FALL GROWING PERIOD, WITH TILLING ACCOMPLISHED USING A ROTARY TILLER OR DISC HARROW AND THE BASIN FLOOR RESEEDED IMMEDIATELY FOLLOWING TILLING TO PREVENT EROSION.
7. THE ENTIRETY OF POROUS ASPHALT SURFACE OF FLAGG ROAD PARKING LOT PROPER SHALL BE INSPECTED AND CLEANED (SWEEP BY VACUUM TRUCK) ONCE PER CALENDAR QUARTER, AND AT A MINIMUM FOUR (4) TIMES PER CALENDAR YEAR. INSPECTIONS SHALL OCCUR NO EARLIER THAN 24 HOURS FOLLOWING A RAINFALL EVENT AND SHALL INCLUDE TAKING READINGS AT MULTIPLE CLEANOUT MANHOLES AND MEDIAN CATCH BASINS TO ASCERTAIN THAT NO WATER REMAINS IN THE RESERVOIR COURSE (AND THAT THE SYSTEM IS EXFILTRATING PROPERLY). THE POROUS ASPHALT SURFACE SHALL ALSO BE VISUALLY INSPECTED DURING RAINFALL EVENTS (ON AN APPROXIMATELY MONTHLY BASIS) TO ENSURE THAT STORMWATER IS PERCOLATING THROUGH THE SURFACE AND THAT RUNOFF TO GRASSED MEDIANS / OVERFLOW BASINS IS NEGLIGIBLE.
8. THE INTEGRITY OF THE POROUS ASPHALT SURFACE SHALL BE INSPECTED ANNUALLY FOR EVIDENCE OF ANY CRACKING, SPALLING, OR DETERIORATION. SMALL AREAS (LESS THAN 50 SQUARE FEET) REQUIRING PATCHING MAY BE REPAIRED USING CONVENTIONAL BITUMINOUS ASPHALT. ANY LARGER OR MORE SIGNIFICANT REPAIRS TO THE LOT SURFACE OR PERMEABLE PAVEMENT MUST BE APPROVED BY THE DIRECTOR OF THE OFFICE OF CAPITAL PROJECTS PRIOR TO IMPLEMENTATION.
9. THE OWNER SHALL ERECT AND MAINTAIN APPROPRIATE SIGNAGE INDICATING THAT THE PERMEABLE PAVEMENT OF THE FLAGG ROAD PARKING LOT IS NOT TO BE TREATED WITH SAND, SALT OR OTHER DEICING AGENTS TYPICALLY USED FOR WINTER MAINTENANCE OPERATIONS.
10. ALL GRASSSED AREAS (SWALES AND INFILTRATION BASIN, MEDIAN AREAS, LANDSCAPED PERIMETER AREAS OF THE PARKING LOT) SHALL BE MOWED AT LEAST ONCE PER GROWING SYSTEM, WITH GRASS VEGETATION CUT TO A HEIGHT NO SHORTER THAN FOUR (4) INCHES.
11. THE URI OFFICE OF CAPITAL PROJECTS SHALL BE RESPONSIBLE FOR ALL REPAIRS, REPLACEMENTS, AND OTHER WORK NECESSARY TO MAINTAIN THE PROPER FUNCTIONING OF INFILTRATION SYSTEMS. ANY REQUIRED REPAIR AND/OR REPLACEMENT OF DRAINAGE STRUCTURES OR FACILITIES SHALL BE PERFORMED PROMPTLY TO ENSURE PROPER FUNCTIONING OF THE SYSTEM. IN THE EVENT OF A SIGNIFICANT LOSS IN INFILTRATION CAPACITY (BELOW THE ORIGINAL DESIGN CAPACITY) OF EITHER OR BOTH SYSTEMS (DUE TO CLOGGING, BLINDING, AND/OR OTHER ISSUES), THE PERTINENT SYSTEMS ELEMENTS SHALL BE REPAIRED OR REPLACED SO AS TO RE-ESTABLISH ORIGINAL DESIGN INFILTRATION RATES.
12. ANY INCIDENT OF INADVERTENT OR DELIBERATE DISCHARGE OF WASTE OIL OR OTHER CONTAMINANT TO EITHER INFILTRATION SYSTEM SHALL BE IMMEDIATELY REPORTED TO THE RIDEM OFFICE OF WATER RESOURCES AT (401) 222-3961. THE RIDEM AFTER-HOURS EMERGENCY TELEPHONE NUMBER IS (401) 222-3070. ANY INCIDENT OF GROUNDWATER CONTAMINATION RESULTING FROM THE IMPROPER DISCHARGE OF CONTAMINANTS TO THE INFILTRATION SYSTEM SHALL BE THE RESPONSIBILITY OF THE OWNER (UNIVERSITY OF RHODE ISLAND).
13. OPERATION AND MAINTENANCE OF THE INFILTRATION SYSTEMS SHALL BE CONDUCTED IN ACCORDANCE WITH THE TERMS AND CONDITIONS SET FORTH IN THE RIDEM UIC PROGRAM PERMIT ISSUED FOR THE CONSTRUCTION OF THE FLAGG ROAD PARKING LOT PROJECT. WRITTEN NOTIFICATION OF ANY CHANGES TO (A) THE PHYSICAL INFRASTRUCTURE OF EITHER SYSTEM OR (B) THIS O&M PLAN SHALL BE PROVIDED TO THE RIDEM UIC PROGRAM.

PROJECT

FLAGG ROAD
PARKING LOT

TODD A. RAVENDELL
REGISTERED PROFESSIONAL ENGINEER

CLIENT

UNIVERSITY OF RHODE ISLAND

Gordon R. Archibald, Inc.
Civil and Environmental Engineers
Pawtucket, Rhode Island

DRAWING TITLE

LEGEND & NOTES

NO.	DATE	REVISIONS	
		BY	TAR
1	6/21/12	NEW SHEET	TAR
2	7/6/12	ADDENDUM 3	TAR

PROJECT NO.: 1377

DATE: MARCH 2012

SCALE: NONE

DRAWN BY: LBD

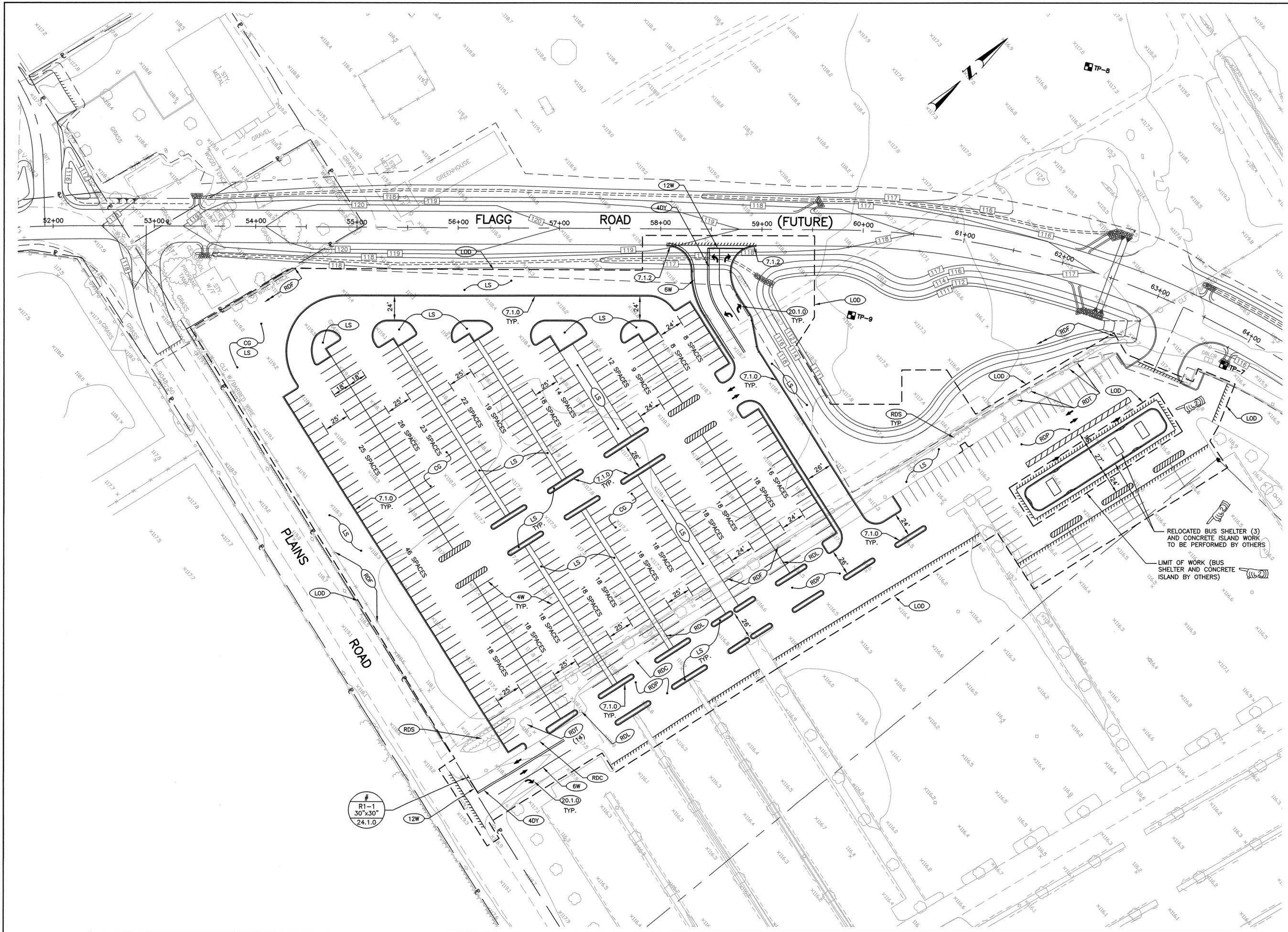
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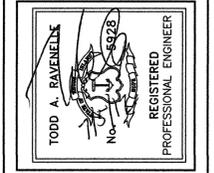
2

SHEET 2 OF 15

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PROJECT
**FLAG ROAD
 PARKING LOT**



CLIENT
UNIVERSITY OF RHODE ISLAND

Gordon R. Archibald, Inc.
 Civil and Environmental Engineers
 Pawtucket, Rhode Island

DRAWING TITLE
GENERAL PLAN

NO.	DATE	BY	REVISIONS
1	02/12	TAR	NEW SHEET
2	7/6/12	TAR	ADDENDUM 3

PROJECT NO.: 1377

DATE: MARCH 2012

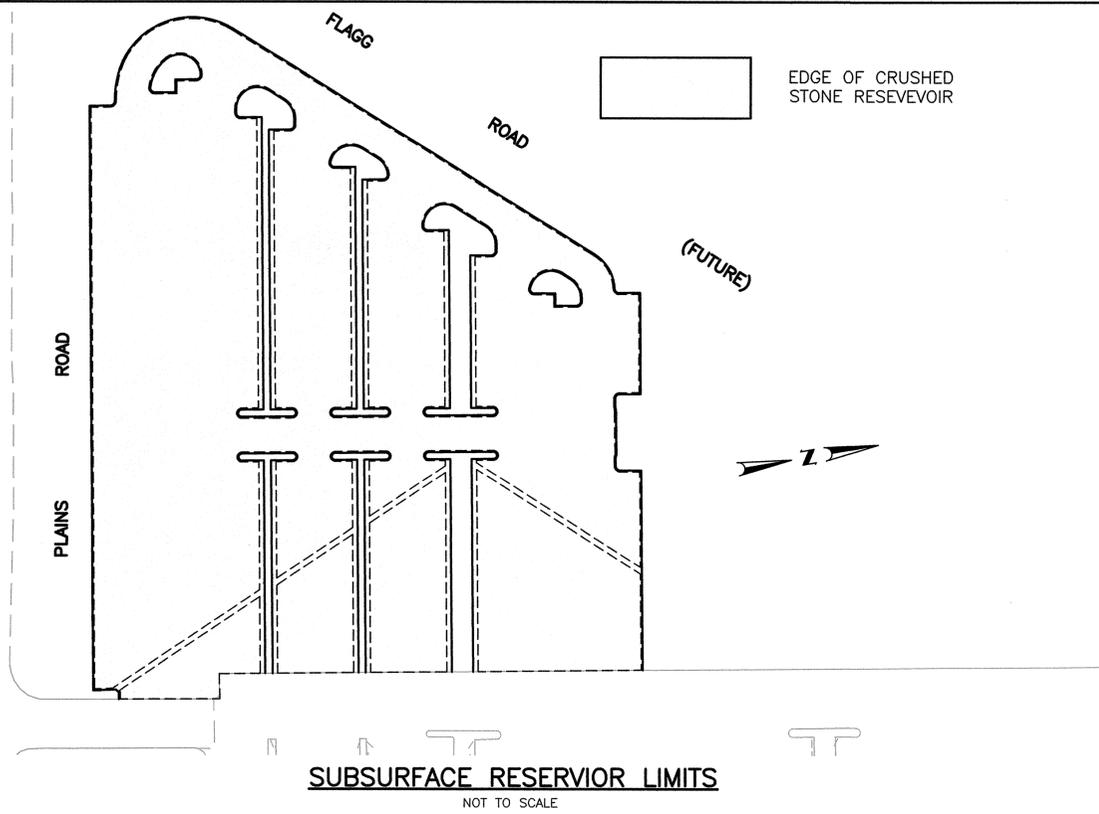
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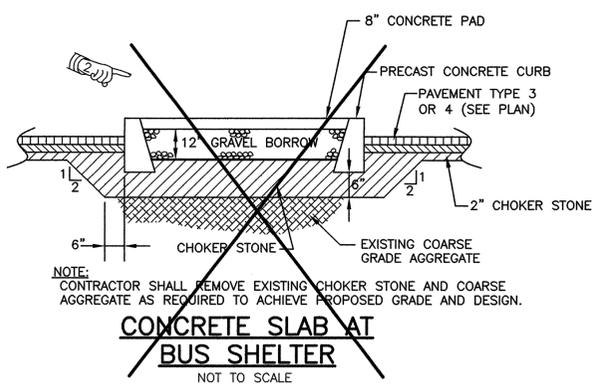
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 SHEET 4 OF 15

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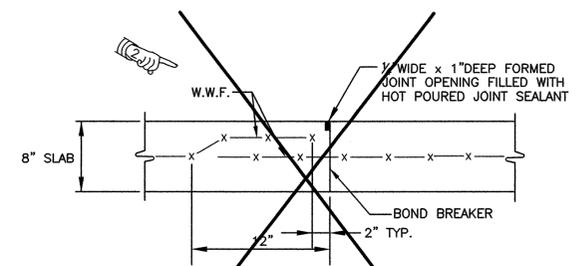


SUBSURFACE RESERVOIR LIMITS
NOT TO SCALE



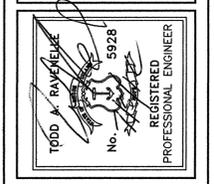
NOTE:
CONTRACTOR SHALL REMOVE EXISTING CHOKER STONE AND COARSE AGGREGATE AS REQUIRED TO ACHIEVE PROPOSED GRADE AND DESIGN.

CONCRETE SLAB AT BUS SHELTER
NOT TO SCALE



TYPICAL CONCRETE PAD & CONSTRUCTION JOINT DETAIL
NOT TO SCALE

PROJECT
FLAGG ROAD PARKING LOT



CLIENT
UNIVERSITY OF RHODE ISLAND

Gordon R. Archibald, Inc.
Civil and Environmental Engineers
Pawtucket, Rhode Island

DRAWING TITLE
DETAIL - 3

NO.	DATE	REVISIONS	BY
1	6/21/12	NEW SHEET	TAR
2	7/6/12	ADDENDUM 3	TAR

PROJECT NO.: 1377

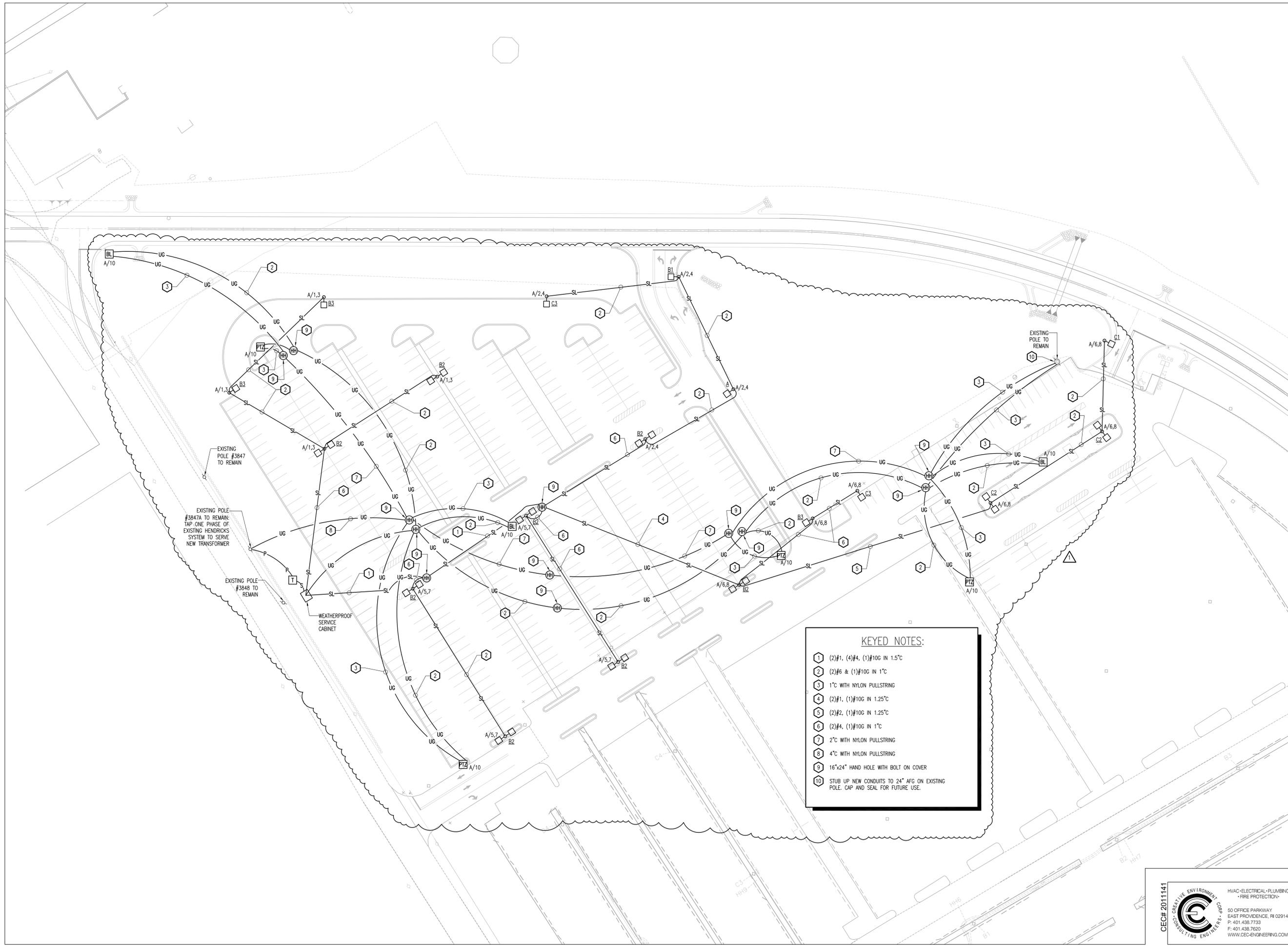
DATE: MARCH 2012

SCALE: AS NOTED

DRAWN BY: LBD

CHECKED BY: TAR

DRAWING NUMBER
9
SHEET 9 OF 15



- KEYED NOTES:**
- 1 (2)#1, (4)#4, (1)#10G IN 1.5°C
 - 2 (2)#6 & (1)#10G IN 1°C
 - 3 1°C WITH NYLON PULLSTRING
 - 4 (2)#1, (1)#10G IN 1.25°C
 - 5 (2)#2, (1)#10G IN 1.25°C
 - 6 (2)#4, (1)#10G IN 1°C
 - 7 2°C WITH NYLON PULLSTRING
 - 8 4°C WITH NYLON PULLSTRING
 - 9 16"x24" HAND HOLE WITH BOLT ON COVER
 - 10 STUB UP NEW CONDUITS TO 24" AFG ON EXISTING POLE. CAP AND SEAL FOR FUTURE USE.

PROJECT
**FLAG ROAD
PARKING LOT**

UNIVERSITY OF RHODE ISLAND

CLIENT
UNIVERSITY OF RHODE ISLAND

Gordon R. Archibald, Inc.
Civil and Environmental Engineers
Pawtucket, Rhode Island

ELECTRICAL SITE LIGHTING PLAN

NO.	DATE	REVISIONS	BY	BY
1	7/5/12	ADDENDUM #3		

PROJECT NO.: 1377

DATE: MARCH 8, 2012

SCALE: AS NOTED

DRAWN BY: JR

CHECKED BY: PDS

DRAWING NUMBER

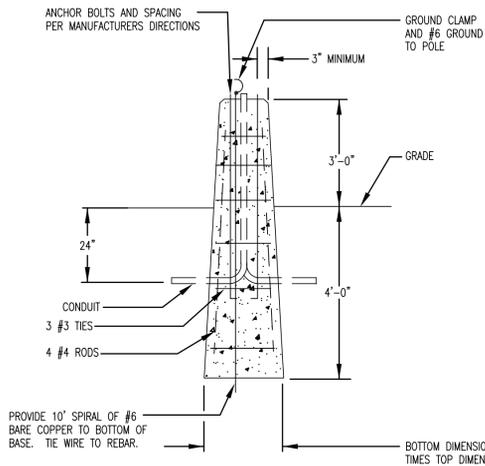
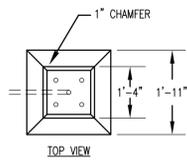
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SHEET 1 OF 3

CEC# 2011141

CREATIVE ENVIRONMENT
CONSULTING ENGINEERS

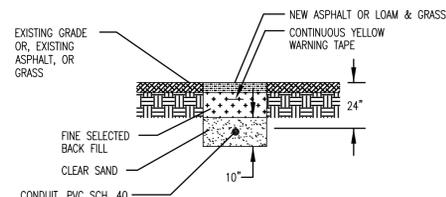
HVAC-ELECTRICAL-PLUMBING
FIRE PROTECTION

50 OFFICE PARKWAY
EAST PROVIDENCE, RI 02914
P: 401.438.7733
F: 401.438.7620
WWW.CEC-ENGINEERING.COM



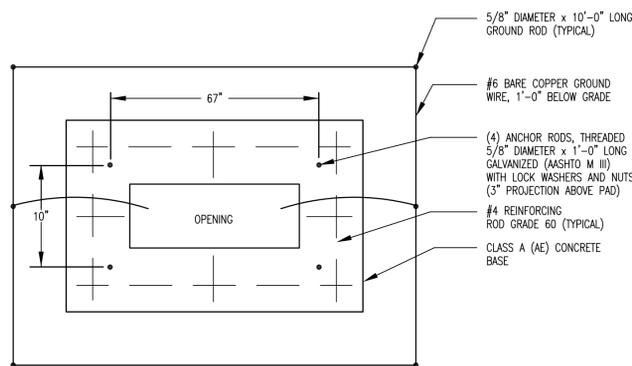
POLE BASE DETAIL

NTS



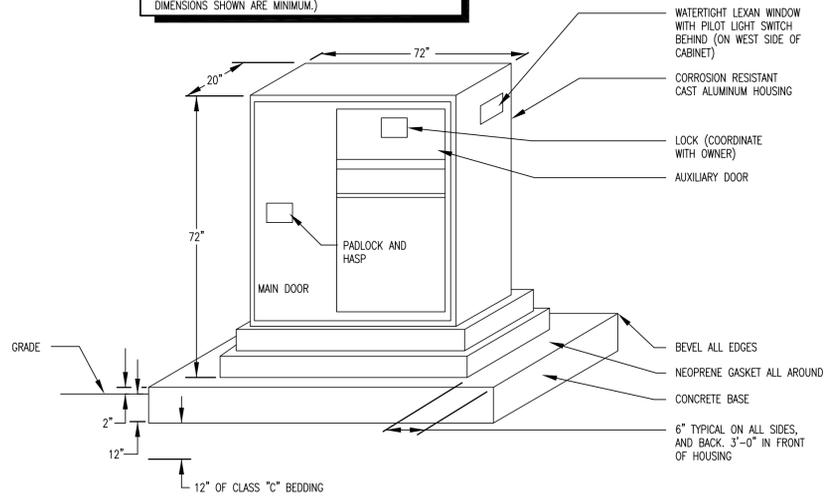
TRENCH DETAIL

NTS



FOUNDATION PLAN

PEDESTAL NOTE:
HOUSING TO CONTAIN POWER COMPANY METERING, PANELBOARD, 3/4" THICK MARINE GRADE PLYWOOD MOUNTING BACKBOARD, METER TROUGH, AND ALL OTHER EQUIPMENT INDICATED ON PLANS. TAP BASE TO ACCEPT ALL CONDUITS. (CABINET DIMENSIONS SHOWN ARE MINIMUM.)



ELEVATION

SERVICE PEDESTAL DETAIL

NTS

ELECTRICAL SYMBOL LEGEND

LIGHTING & POWER

- □ POLE MOUNTED LIGHTING
- SL — SITE LIGHTING WIRING, 24" BELOW GRADE
- H ○ HAND HOLE
- T ○ TELEPHONE POLE
- ⊕ QUADRUPEX RECEPTACLE MTD 18" A.F.F. TO CENTER.
- BL EMERGENCY TELEPHONE PEDESTAL WITH BLUE LIGHT AND FIXED CAMERA
- PTZ PAN TILT ZOOM CAMERA PEDESTAL

ABBREVIATIONS

- A AMPS
- C CONDUIT
- G GROUND
- KW KILOWATT
- MTD MOUNTED
- N NEUTRAL
- NTS NOT TO SCALE
- P POLE
- PH PHASE
- TEL TELEPHONE
- TB TELEPHONE TERMINAL BOARD
- TYP TYPICAL
- V VOLT
- W WATT
- W/ WITH

NOTES

1. DISCONNECT, REMOVE, AND MAKE SAFE ALL CONDUIT AND WIRING NOT IN SERVICE.
2. VERIFY ALL EQUIPMENT NAMEPLATE LOADS AND INSURE PROPER SIZING OF CONDUCTORS AND OVERCURRENT PROTECTION. NOTIFY ENGINEER OF DISCREPANCIES.
3. USE #10 CONDUCTORS FOR ALL HOMERUNS OVER 100 FEET IN LENGTH.
4. BALANCE THE PHASES IN EACH ELECTRICAL PANEL.

LIGHTING FIXTURE SCHEDULE

TYPE	MANUFACTURER	MOUNTING	LAMPS		REMARKS
			WATTS	TYPE	
A	KIM LIGHTING 1A/AR2/400PMH208/CTM/HS	POLE	(1) 400W	MH	SINGLE METAL HALIDE LUMINAIRE CTM: COLOR TO MATCH EXISTING LIGHTS IN ADJOINING LOT
B1	KIM LIGHTING 1A/AR2/400PMH208/CTM	POLE	(1) 400W	MH	SINGLE METAL HALIDE LUMINAIRE CTM: COLOR TO MATCH EXISTING LIGHTS IN ADJOINING LOT
B2	KIM LIGHTING 2B/AR3/400PMH208/CTM/HS	POLE	(2) 400W	MH	DOUBLE METAL HALIDE LUMINAIRE CTM: COLOR TO MATCH EXISTING LIGHTS IN ADJOINING LOT
B3	KIM LIGHTING 1A/AR3/400PMH208/CTM/HS	POLE	(1) 400W	MH	SINGLE METAL HALIDE LUMINAIRE CTM: COLOR TO MATCH EXISTING LIGHTS IN ADJOINING LOT
C1	KIM LIGHTING 1A/AR4/400PMH208/CTM	POLE	(1) 400W	MH	SINGLE METAL HALIDE LUMINAIRE CTM: COLOR TO MATCH EXISTING LIGHTS IN ADJOINING LOT
C2	KIM LIGHTING 2B/AR4/400PMH208/CTM	POLE	(1) 400W	MH	DOUBLE METAL HALIDE LUMINAIRE CTM: COLOR TO MATCH EXISTING LIGHTS IN ADJOINING LOT
C3	KIM LIGHTING 1A/AR4/400PMH208/CTM/HS	POLE	(1) 400W	MH	SINGLE METAL HALIDE LUMINAIRE CTM: COLOR TO MATCH EXISTING LIGHTS IN ADJOINING LOT

LIGHTING FIXTURE SCHEDULE NOTES:

1. PROVIDE ALL LAMPS FOR ALL LIGHTING FIXTURES. LAMP COLOR SHALL BE 3000K.
2. PROVIDE VALMONT LIGHT POLE, MODEL #: 2500-606SS4 FOR EACH LIGHT FIXTURE. COLOR TO MATCH EXISTING LIGHT POLES IN ADJOINING LOT.

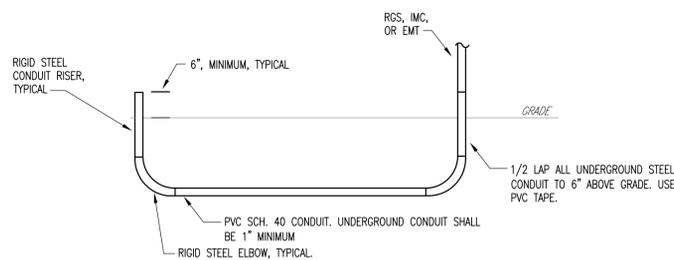
PANEL: A 150 A 240/120 V 3PH 4W 60HZ

CKT No.	Load Type	LOAD DESCRIPTION	Wires	WIRE SIZE	LOAD kVA	CIRCUIT BREAKER	CKT No.	Load Type	LOAD DESCRIPTION	Wires	WIRE SIZE	LOAD kVA	CIRCUIT BREAKER	SHUNT TRIP MAIN	
														ISOLATED GROUND	FEED THRU LUGS
1	L	SITE LIGHTING	6	3.1	1		2	L	SITE LIGHTING	4	2.6	1			
3	L	SITE LIGHTING	4	4.2	1		6	L	SITE LIGHTING	1	4.7	1			
5	L	SITE LIGHTING	4	4.2	1		8	L	SITE LIGHTING	1	4.7	1			
7	L	SITE LIGHTING	4	4.2	1		10	L	BLUE LIGHTS	1	3.1	1			
9	R	RECEPTACLE	1	1	1		12	R	TIMECLOCK	1	0.2	1			
11	N	TIMECLOCK	1	0.2	1		14		SPACE						
13							16		SPACE						
15															

Connected Load 15.0 KVA

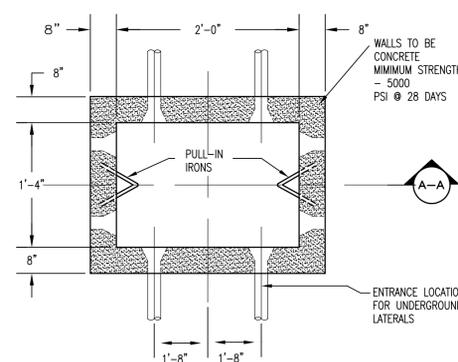
R	Receptacle Load	0.0 KVA	Noncontinuous	0.0 KVA
L	Lighting Load	15.0 KVA	Continuous	18.8 KVA
M	Mechanical and Power Load	0.0 KVA	Noncontinuous	0.0 KVA
TOTAL LOAD		18.8 KVA		

AMPERAGE: 76 AMP



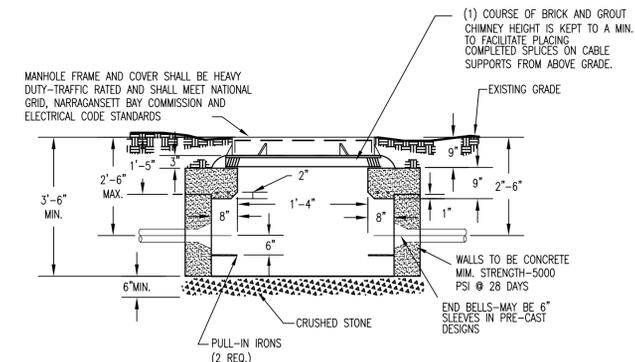
UNDERGROUND CONDUIT DETAIL, TYPICAL

NTS



HAND HOLE - DETAIL

NTS



HAND HOLE - DETAIL A-A

NTS

PROJECT
**FLAGG ROAD
PARKING LOT**

CLIENT
UNIVERSITY OF RHODE ISLAND

BY
BY
REVISIONS
ADDENDUM #3
NO. DATE
1 7/15/12

Gordon R. Archibald, Inc.
Civil and Environmental Engineers
Pawtucket, Rhode Island

ELECTRICAL SYMBOL LEGEND, SCHEDULES & DETAILS

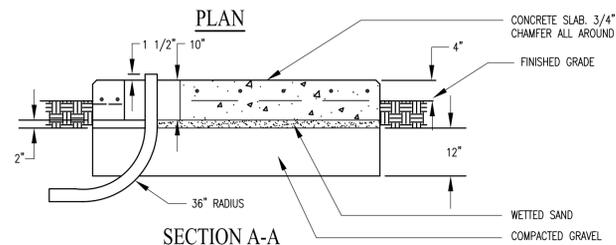
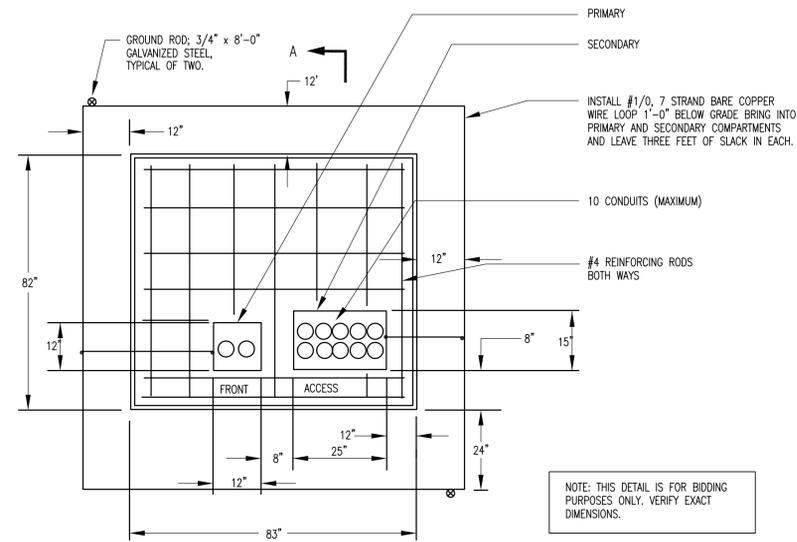
PROJECT NO.: 1377
DATE: MARCH 8, 2012
SCALE: AS NOTED
DRAWN BY: JR
CHECKED BY: PDS

DRAWING NUMBER
E-2
SHEET 2 OF 3

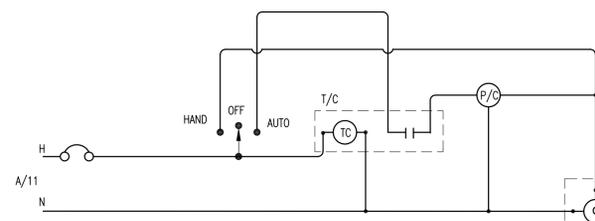
CEC# 2011141



HVAC-ELECTRICAL-PLUMBING
- FIRE PROTECTION -
50 OFFICE PARKWAY
EAST PROVIDENCE, RI 02914
P: 401.438.7733
F: 401.438.7620
WWW.CEC-ENGINEERING.COM



TRANSFORMER PAD DETAIL
NTS



P/C = PHOTOCELL- INTERMATIC CATALOG NUMBER K4221 (120V), SWIVEL STYLE, MOUNTED ON SURFACE BOX.

T/C = TIMECLOCK WITH CARRY OVER, INTERMATIC T171CR, 120 VOLT, SET "ON" TIME FOR 3 P.M. SET "OFF" TIME AS DIRECTED BY THE OWNER.

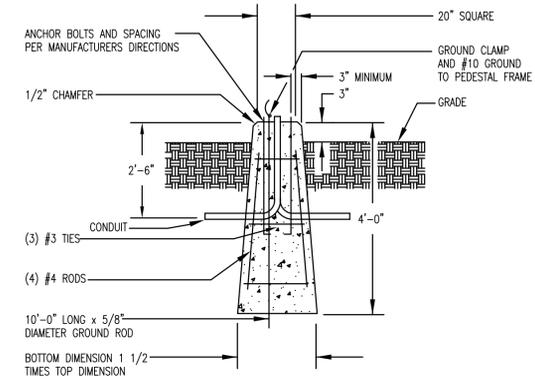
BY-PASS H.O.A. SWITCH, ENGRAVE PLATE "POLE LIGHTING".

PROVIDE AN OVERALL ENCLOSURE (HOFFMAN #A60R3618FSLP MINIMUM).

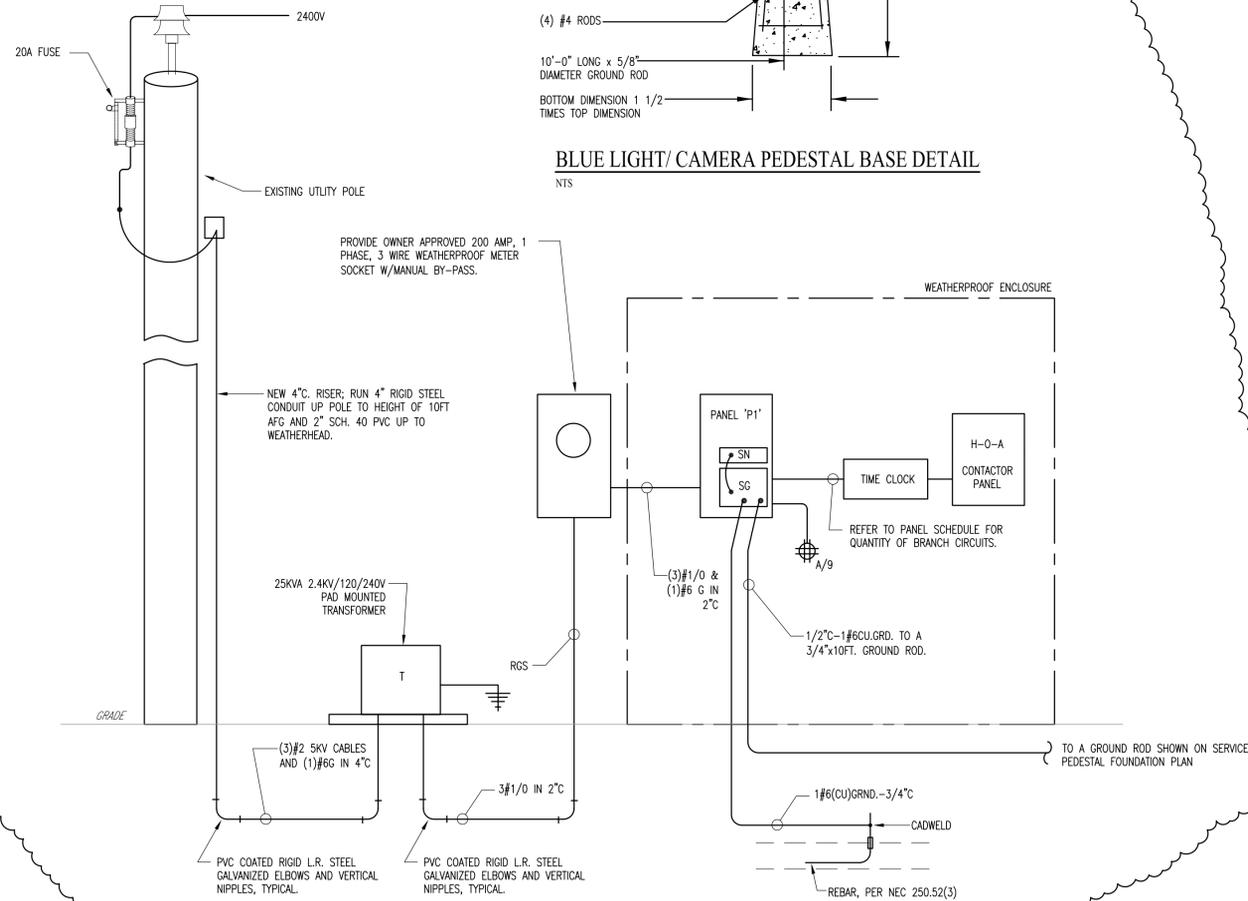
TIMECLOCK DETAIL
NTS

- A/1,3 POLE LIGHTS, SEE SITE PLAN FOR LOCATIONS
- A/2,4 POLE LIGHTS, SEE SITE PLAN FOR LOCATIONS
- A/5,7 POLE LIGHTS, SEE SITE PLAN FOR LOCATIONS
- A/6,8 POLE LIGHTS, SEE SITE PLAN FOR LOCATIONS

RELAY-SQUARE "D", CATALOG NUMBER LG800-VO2, 30 AMP RATED CONTACTS, 120 VOLT COIL.



BLUE LIGHT/ CAMERA PEDESTAL BASE DETAIL
NTS



ELECTRICAL SERVICE/DISTRIBUTION SCHEMATIC
NTS

PROJECT
**FLAGG ROAD
PARKING LOT**

UNIVERSITY OF RHODE ISLAND

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NO.	DATE	REVISIONS	BY	BY
1	7/5/12	ADDENDUM #3		

PROJECT NO.: 1377

DATE: MARCH 8, 2012

SCALE: AS NOTED

DRAWN BY: JR

CHECKED BY: PDS

DRAWING NUMBER

E-3
SHEET 3 OF 3

