

State of Delaware Department of Natural Resources and Environmental Control **Delaware Division of Parks and Recreation** 89 Kings Highway Dover, Delaware 19901

ADDENDUM No. ONE

Project Name:	Holts Landing Boardwalk & Trail Improvements Holts Landing State Park
Project No.:	HL-10C
Date of Issue:	February 12, 2019
Notice No. 1:	Attach this addendum to the Project Manual for this project. It modifies and becomes part of the Bidding Documents. Work or material not specifically mentioned herein is to be as described in the main body of the specification and as shown on the drawings.
Bids Due:	Wednesday, February 27, 2019 at 2:00 PM DNREC Division of Parks and Recreation Richardson and Robbins Building, <u>Auditorium</u> 89 Kings Highway Dover, DE 19901

General Information:

1. A mandatory pre-bid meeting was held at the project site on Thursday, February 7, 2019, at 11:00 a.m.. A copy of the Agenda and Sign-In Sheet is included with this addendum.

Pre-bid Meeting Discussion:

- 1. Refer to the attached Agenda for the formal discussion at the Pre-Bid Meeting.
- 2. The requirement for Buy America was noted by the Engineer. The contractor shall refer to Section 006277 Buy America.
- 3. Work restrictions in the wetlands between March 1 and June 30, 2019 are in effect for this construction. The Contractor shall schedule work accordingly.
- 4. The Contractor is responsible for checking the State web site for any subsequent Addendums or changes to the project prior to bidding.

Drawings

- 1. Plan Sheet C301: Added Project Notes 2 and 22.
- 2. Plan Sheet C301, Revised Detail A, B, and C, Typical Section: 4.00' Wide Gravel Trail to be widened to 5.00'.
- 3. Plan Sheet C306: Deleted all signing and striping requirements from this contract.
- 4. Plan Sheet SSMP500.1: Removed the Stabilized Construction Entrance (SCE) at the intersection of Holts Landing Road and the existing parking lot. The Contractor shall be responsible for sweeping the existing parking lot clean of all tracked debris at the end of each work day.

Specifications

- 1. New Section 004113 Bid Form, with revision to Unit Price.
- 2. New Section 012200 Unit Prices, with revision to Unit Price 1 for Helical Screw Foundations. All items noted within Section 012200 – Unit Prices, are to be included in the Base Bid.
 - a. Add the following "For bidding purposes, Helical Anchors quantities shall assume pile lengths of 40 feet for all plumb and battered piles measured from the tip to the point of cut-off. Contractor shall not be paid for excess pile trimmed off the end of the pile to meet cut-off elevation. Contractor shall maintain a log of the linear foot quantity of helical piles installed and shall submit updated installation quantities to the owner on a weekly basis."

Questions

1. In the bid documents it does not give an over all length or a base quantity for the helical pile but just a unit price per foot. I believe that quantity may be between 2000' and 3000' and without borings it could go higher. I believe it would be hard to evaluate the bids without a bid quantity with a add/deduct. Can you review this item?

A: Contractors shall provide a Base Bid that includes 8,760 linear feet of helical pile, measured from pile tip to cut-off elevation. Unit Price No. 1 shall be revised to measure helical piles using Linear Feet (LF).

2. Is soil testing required:

A: The contractor is responsible for any soil borings deemed necessary for the design of the helical piles. This testing shall be the contractor's option and shall be included in the Base Bid.

3. Drug Testing: Do we need new drug tests on the employees for the job or are the test results that we have on file okay?

A: All drug testing results must be current in accordance with Section 008114 – Drug Testing Forms. The Contractor shall submit documentation for all employees.

4. It looks like the contractor is responsible for all permits, i.e. grading, starting....

A: Permits have been obtained from: Division of Facilities Management; Architectural Accessibility Board; DNREC Division of Watershed Stewardship; DNREC Wetlands and Subaqueous Lands. No permits are required for site work for this project.

5. For spoils to be hauled off of the site, is testing of the materials require to dispose of this?

A: All soils to be hauled off site shall become the property and responsibility of the owner to legally dispose of. Any testing will be the responsibility of the contractor to comply with any applicable codes and/or laws.

6. At the boardwalk areas, is the LOD Width still 8' or is it wider in these two area?

A: The LOD width at the boardwalk areas includes 8.0' for the boardwalk plus another 8.0' for matting, as noted on Plan Sheet SSMP500. Total LOD width is 16.0'.

7. I went to the Pre-Bid Meeting for Holts Landing Boardwalk Trail Improvements, NAT18200-HL. Would I be able to get a copy of the sign-in sheet?

A: A copy of the sign in sheet is included with this Addendum.

8. I was wondering if a copy of the sign in sheet is available from the mandatory prebid meeting that was held yesterday?

A: Refer to question #7.

End of Addendum No. One

Enclosures

File:





State of Delaware Department of Natural Resources and Environmental Control **Delaware Division of Parks and Recreation** 89 Kings Highway Dover, Delaware 19901

PRE-BID MEETING AGENDA

Date:	February 7, 2019
To:	File
From:	Julio Seneus
Subject:	Holts Landing State Park
	Holts Landing Boardwalk & Trail Improvement
Contract No.:	2018-HL-200
Project No.:	HL-10C
Meeting Date:	February 7, 2019
Location:	Holts Landing State Park Maintenance Building

ADMINISTRATIVE:

Sign-In Sheet: Please make sure to fill out the sign in sheet, otherwise you will not be considered in attendance and will not be permitted to submit a bid.

Questions During Bidding: All questions shall be submitted via email to <u>Cindy.Todd@delaware.gov.</u> Last Day for Questions shall be **February 20, 2019** (2:00 PM) any questions received after this time will not be addressed. Questions will be answered via Addendum. Phone calls will not be replied to.

Bonds: Bid bond is required and is required to be submitted with your bid. Bond forms are included in the bid package Performance and Payroll bonds will be required for the work. Bond forms are included in the bid package and will be required upon notice of award of the contract, along with a certificate of insurance.

Wages/Payroll: Prevailing wage and payroll reporting are applicable to this project. The project determination is Highway Construction.

Bids Due: Wednesday February 27, 2019 at 2:00 PM Local Time. Any bid received after the stated time will be returned unopened. Bids shall be accepted by overnight mail, or in person at DNREC – Division of Parks and Recreation, 89 Kings Highway, Dover DE 19901.

Sealed Bids shall be addressed to the following address, the outer envelope shall clearly indicate "DNREC CONTRACT NO. 2018-HL-200, SEALED BID – DO NOT OPEN".

Sealed Bids shall be addressed to the following address:

Dept. of Natural Resources & Environmental Control Division of Parks and Recreation Office of Design and Development 89 Kings Highway, Dover DE 19901 Attn: Cynthia A. Todd, RLA. Phone Number: 302-739-9210

Bids will be opened and read aloud in the DNREC Auditorium. Unit Prices, Section 012700:

Please note, only one (1) Unit Price is required for this project:

• Unit Price No. 1 – Helical Screw Foundations (EA). Please include a price to Add and Deduct this item.

On-Site Superintendent: The contractor shall designate a superintendent who shall be on site for the duration of the project.

Completion of Work:

• Notice of Contract Award: Within thirty (30) days of receipt and acceptance of qualified low bid.

• Purchase Order Issuance: The issuance of a State of Delaware purchase order is contingent upon the successful Contractor submitting bonds on State-approved forms, signed contracts and insurance certificates to the State of Delaware within 20 days of Notice of Award. A purchase order will be issued in approximately thirty days after these items have been submitted to the State of Delaware.

- On-Site Mobilization: Upon receipt of State of Delaware purchase order.
- Substantial Completion: The work shall be completed **180 calendar days** from on-site start of work.
- Completion of Punch List: 21 days from date of substantial completion.

Shop Drawings: All shop drawings and Source of Supply documents will be submitted electronically to the project to the DNREC Project Manager. The contractor will designate a point of contact for access. The project design team will have 15 days to review and respond to all shop drawings and Source of Supply documents. Please consider this when making submissions and scheduling the work.

Successful Bidder will be expected to enter into a Standard A101-2007Agreement between Owner and Contractor.

SCOPE OF WORK:

Base Bid:

- Construction of a new, 1,304+/- long, 5-foot wide gravel trail.
- Construction of one (1) 600' boardwalk and overlook, and one (1) 55' boardwalk.
- Placement of GABC and DE No. 10 Stone on approximately 4,416 linear feet of the existing Sea Hawk Trail as shown on the Contract Plans.

• Construction of 1,200+/- linear feet of 5-foot wide gravel trail adjacent to the parking lot, to be located in the field by the owner.

Work will also include stormwater management as shown on the plans.

PLEASE NOTE: All work with the wetlands shall be performed from matting placed within the limit of disturbance (LOD).

Alternates, Section 012300:

- Alternate 1: Split-Rail Fence.
 - State the amount to be added to the Base Bid to construct 360 linear feet of split-rail fence per location & detail on plan sheet C306.
- Alternate 2: Helical Pile Static Load Testing
 - State the amount to be deducted from the Base Bid to eliminate load testing one (1) helical pile at each bridge abutment, total four (4) tests.

FIELD WALK/QUESTIONS:



PRE-BID MEETING ATTENDANCE SHEET HOLTS LANDING BOARDWALK & TRAIL IMPROVEMENTS

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CONTRACT NO. 2018-HL-200, Project #HL-10C Thursday, February 7, 2019 at 11:00 AM

NAME	AGENCY/COMPANY	PHONE/E-MAIL
Kijk Morgan	Diamond Materials	Phone # 302 -463-2037 E-Mail Kmorgan @ diamond materials.c.
Chuck Swartout	Gruss Bustans Lundsruping	Phone # <u>302-292-1166</u> E-Mail <u>Piclouse AOLCOM</u>
CHARLES DOLBEY	MURTECH, INC	Phone # 410, 251, 3812 E-Mail <u>cdolbey@murtech.us</u>
Tanner Jennings	Martoch, Inc	Phone # <u>410-713-5181</u> E-Mail <u>+jennings@murfechius</u>
ED BUSH	EPB ASSOCIATES, IN L	Phone # 302 475 - 7301 E-Mail <u>epbush@Aoc.com</u>
BALL BOOM	Comonwesternt Conso Co.	Phone # 302-654-6611 E-Mail blooth Cits Common warra com
Bricen C Thumpson	Conventional Builders I.NC	Phone # 302-422-2429 E-Mail Conventional builders D Concast, Net
Kathy Ferguson	Mumford & Miller	Phone # 302 373 5771 E-Mail Kferguson Mumfurdand
Rick PieAnay	Amakoe Iwe	Phone # 302-834-9664
		Phone #

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NAME	AGENCY/COMPANY	PHONE/E-MAIL
G286 Thompson	Conventional Builders The	E-Mail Concast, Pet
My Tueber	Chegopeake Tenf LLC	Phone #
		E-Mail grog & Chesapeate tor t. com Phone # (715) 413~ 1000
(Daniel Grange	UCC	Phone # (715) 413~ 1000
		E-Mail dane ucc-llc.us
Bill Boyd	CONSTITUCTION AgeNts / Sub- constract	Phone # (302) 287-0322
	DBE	E-Mail The CACOTO Elamail
MAYN TARR	G.E. 5,	Phone # 302 - 757 - 2823
545 		E-Mail MTARAC 6850MCALL, COM
Leon Thompson Jr	EDis	Phone # <u>302-528-)067</u>
1		E-Mail thom, pson @ earlis company.com
Jim Dr Guglielno	ENIS	Phone # 302-383-4405
		E-Mail SIMM 10 0015 COMPONN, ON
Susan	TID	Phone # 302 - 836 6919 ext h3
Treatham	3.5.	E-Mail 5+renthan @ jjio.com
Jonathan Knesi	Licaie	Phone # $\frac{202 - 702 - 7995}{74 - 7995}$ Fax # $\frac{202 - 379 - 7995}{7995}$
Lissie	Liggie Surveys Inc.	E-Mail jliggie @ liggie surveys. (om
		Phone #

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NAME	AGENCY/COMPANY	PHONE/E-MAIL
Raymond	DISSEN & JUHNCO	
Raymond Mc Master	4106041802	E-Mail <u>master@DBSED-</u> Jutto
STEPHEN Macrosod	GREEN PIAMOND	Phone # 307-284-1177
	302-284-1177	E-Mail digmond builders com
Patrick Kirtz	A-Del Construction Inc.	Phone # 302 - 453 - 8286
		PK:ntz@a-del.com E-Mail <u>channg@a-del.com</u>
KBITH LONG	JOHN L BRIGLS	Phone # 302-856-7033
	company	E-Mail Contract e Olbriggsco.com
		Phone #
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		Phone #
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	NAME	AGENCY/COMPANY	PHONE/E-MAIL	
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BID FORM

For Bids Due: February 27, 2019, at 2:00 p.m. Control	To: Dept. of Natural Resources and Environmental			
	Division of Parks and Recreation Office of Design and Development			
	89 Kings Highway, Dover DE 19901			
Name of Bidder:				
Delaware Business License No.:	Taxpayer ID No.:			
(A copy of Bidder's Delaware Business License	e must be attached to this form.)			
(Other License Nos.):				
Phone Number: ()	Fax Number: ()			
The undersigned representing that he has read a	nd understands the Bidding Documents and that this bid is made in			

The undersigned, representing that he has read and understands the Bidding Documents and that this bid is made in accordance therewith, that he has visited the site and has familiarized himself with the local conditions under which the Work is to be performed, and that his bid is based upon the materials, systems and equipment described in the Bidding Documents without exception, hereby proposes and agrees to provide all labor, materials, plant, equipment, supplies, transport and other facilities required to execute the work described by the aforesaid documents for the lump sum itemized below:

\$

(\$

)

BID FORM

ALTERNATES

Alternate prices conform to applicable project specification section. Refer to specifications for a complete description of the following Alternates. An "ADD" or "DEDUCT" amount is indicated by the crossed out part that does not apply.

ALTERNATE No. 1:	Split-Rail Fence		
Add/Deduct:	(\$)	
No. of Days to Comple			
ALTERNATE No. 2:	Helical Pile Static Load Testing		
Add/Deduct:	(\$)	
No. of Days to Comple	te Alternate 2:		

BID FORM

UNIT PRICES

Unit prices conform to applicable project specification section. Refer to the specifications for a complete description of the following Unit Prices:

		DEDUCT	ADD
UNIT PRICE No. 1:	Helical Screw Foundations (EA) (LF)	\$	\$
UNIT PRICE No. 2:	Disposal of Excess Material (CY)	\$ 	\$
UNIT PRICE No. 3:	Additional Gravel Trail (LS)	\$ 	\$

BID FORM

I/We acknowledge Addendums numbered ______ and the price(s) submitted include any cost/schedule impact they may have.

This bid shall remain valid and cannot be withdrawn for thirty (30) days from the date of opening of bids, and the undersigned shall abide by the Bid Security forfeiture provisions. Bid Security is attached to this Bid.

The Owner shall have the right to reject any or all bids, and to waive any informality or irregularity in any bid received.

This bid is based upon work being accomplished by the Sub-Contractors named on the list attached to this bid.

Should I/We be awarded this contract, I/We pledge to achieve substantial completion of all the work within ______ calendar days of the Notice to Proceed.

The undersigned represents and warrants that he has complied and shall comply with all requirements of local, state, and national laws; that no legal requirement has been or shall be violated in making or accepting this bid, in awarding the contract to him or in the prosecution of the work required; that the bid is legal and firm; that he has not, directly or indirectly, entered into any agreement, participated in any collusion, or otherwise taken action in restraint of free competitive bidding.

Upon receipt of written notice of the acceptance of this Bid, the Bidder shall, within twenty (20) calendar days, execute the agreement in the required form and deliver the Contract Bonds, and Insurance Certificates, required by the Contract Documents.

I am / We are an Individual / a Partnership / a Corporation

BID FORM

By		Trading as	
	(Individual's/General Partner's /Corporate Name)		
	(State of Corporation)		
Busin	ess Address:		
Witne	SS:	By:	
			(Authorized Signature)
(Seal)			
			(Title)
ATACI	<u>IMENTS</u>		Date:
Sub-Co	ntractor List		
Non-Co	ollusion Statement		
Affidav	it(s) of Employee Drug Testing Program		
Bid Sec	•		
(Others	s as Required by Project Manual)		

BID FORM

SUBCONTRACTOR LSIST

In accordance with Title 29, Chapter 6962 (d)(10)b <u>Delaware Code</u>, the following sub-contractor listing must accompany the bid submittal. The name and address of the sub-contractor **must be listed for each category** where the bidder intends to use a sub-contractor to perform that category of work. In order to provide full disclosure and acceptance of the bid by the *Owner*, it is required that bidders list themselves as being the sub-contractor for all categories where he/she is qualified and intends to perform such work.

	Subcontractor Category	Subcontractor	Address (City & State)	Subcontractors tax payer ID # or Delaware Business license #
1.				
2.				
3.				
4.				
5.				
6.				
7.				
8.				

BID FORM

NON-COLLUSION STATEMENT

This is to certify that the undersigned bidder has neither directly nor indirectly, entered into any agreement, participated in any collusion or otherwise taken any action in restraint of free competitive bidding in connection with this proposal submitted this date to the Office of Design and Development, Division of Parks and Recreation.

All the terms and conditions of the TRI-VALLEY TRAIL, PHASE II have been thoroughly examined and are understood.

NAM	4E O	F BI	DDER

AUTHORIZED REPRESENTATIVE
(TYPED):

AUTHORIZED REPRESENTATIVE (SIGNATURE):

TITLE:

ADDRESS OF BIDDER:

E-MAIL:

Sworn to and Subscribed before me this	day of	of 20	
Sworn to and Subscribed before me this	day of		

My commission expires ______.

NOTARY PULIC _____

THIS PAGE MUST BE SIGNED AND NOTORIZED FOR YOUR BID TO BE CONSIDERED.

HOLTS LANDING BOARDWALK & TRAIL IMPROVEMENTS

HOLTS LANDING STATE PARK DIVISION OF PARKS AND RECREATION CONTRACT No. 2018-HL-200

AFFIDAVIT OF EMPLOYEE DRUG TESTING PROGRAM

4104 Regulations for the Drug Testing of Contractor and Subcontractor Employees Working on Large Public Works Projects requires that Contractors and Subcontractors implement a program of mandatory drug testing for Employees who work on Large Public Works Contracts funded all or in part with public funds.

We hereby certify that we have in place or will implement during the entire term of the contract a Mandatory Drug Testing Program for our employees on the jobsite that complies with this regulation:

Contractor/Subcontractor Name:			
Contractor/Subcontractor Address:			
Authorized Representative (typed or printed):			
Authorized Representative (signature):			
Title:			
Sworn to and Subscribed before me this	day of	20	
My Commission expires	. NOTARY PUBLIC		

THIS PAGE MUST BE SIGNED AND NOTARIZED FOR YOUR BID TO BE CONSIDERED.

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Copyright 1998, The American Institute of Architects (AIA) SECTION 012200 - UNIT PRICES

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 1 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. This Section includes administrative and procedural requirements for unit prices.
- B. Related Sections include the following:
 - 1. Division 1 Section "Contract Modification Procedures" for procedures for submitting and handling Change Orders.
 - 2. Section 13 24 50, "Helical Screw Foundations."

1.3 DEFINITIONS

A. Unit price is an amount proposed by bidders, stated on the Bid Form, as a price per unit of measurement for materials or services added to or deducted from the Contract Sum by appropriate modification, if estimated quantities of Work required by the Contract Documents are increased or decreased.

1.4 PROCEDURES

- A. Unit prices include all necessary material, plus cost for delivery, installation, insurance, applicable taxes, overhead, and profit.
- B. Measurement and Payment: Refer to individual Specification Sections for work that requires establishment of unit prices. Methods of measurement and payment for unit prices are specified in those Sections.
- C. Owner reserves the right to reject Contractor's measurement of work-in-place that involves use of established unit prices and to have this work measured, at Owner's expense, by an independent surveyor acceptable to Contractor.
- D. List of Unit Prices: A list of unit prices is included at the end of this Section. Specification Sections referenced in the schedule contain requirements for materials described under each unit price.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION

3.1 LIST OF UNIT PRICES

- A. Unit Price No. 1 Helical Screw Foundations.
 - 1. Description: Provide and install <u>8,760 linear feet</u> of helical screw piles as shown on the Contract Plans, and as defined in Section 13 24 50, "Helical Screw Foundations."
 - 2. Unit of Measurement: Unit (Each) (Linear Feet)
- B. Unit Price No. 2 Disposal of Excess Materials.
 - 1. Description: Remove and legally dispose of excess and/or undesirable soils, including under cut material, that can not be incorporated into the proposed construction. Price shall cover the cost of loading, hauling, and all labor, materials, and equipment necessary to remove the excess soil. Material shall be disposed of in accordance with Section 106.08 Disposal of Unacceptable Materials, of the DelDOT Standard Specifications.
 - 2. Unit of Measurement: Unit (Cubic Yards)
- C. Unit Price No. 3 Additional Gravel Trail.
 - 1. Description: Install 1,200 linear feet of 4-foot wide gravel trail adjacent to the existing parking lot. Trail section to match Detail C/C101. Price shall include the cost of all material, labor, equipment, hauling, and removal of excess material.
 - 2. Unit of Measurement: Unit (Lump Sum)

END OF SECTION 012700

ONLY

1. THE INTENT OF THIS PROJECT IS TO PROVIDE THE FOLLOWING IMPROVEMENTS AT THE HOLTS LANDING STATE PARK: 1.1. CONSTRUCTION OF 4,416 L.F. OF GRAVEL TRAIL IN PLACE OF THE EXISTING SEA HAWK TRAIL ALIGNMENT.

CONSTRUCTION OF 1,304 L.F. OF NEW GRAVEL TRAIL TO RELOCATE PORTIONS OF THE EXISTING SEA HAWK TRAIL.
 CONSTRUCTION OF 629 L.F. OF NEW GRAVEL TRAIL ALONG THE SOUTHERN EDGE OF THE EXISTING PARKING LOT.

CONSTRUCTION OF ONE (1) 600' LONG BOARDWALK.
 CONSTRUCTION OF ONE (1) 60' LONG BOARDWALK.

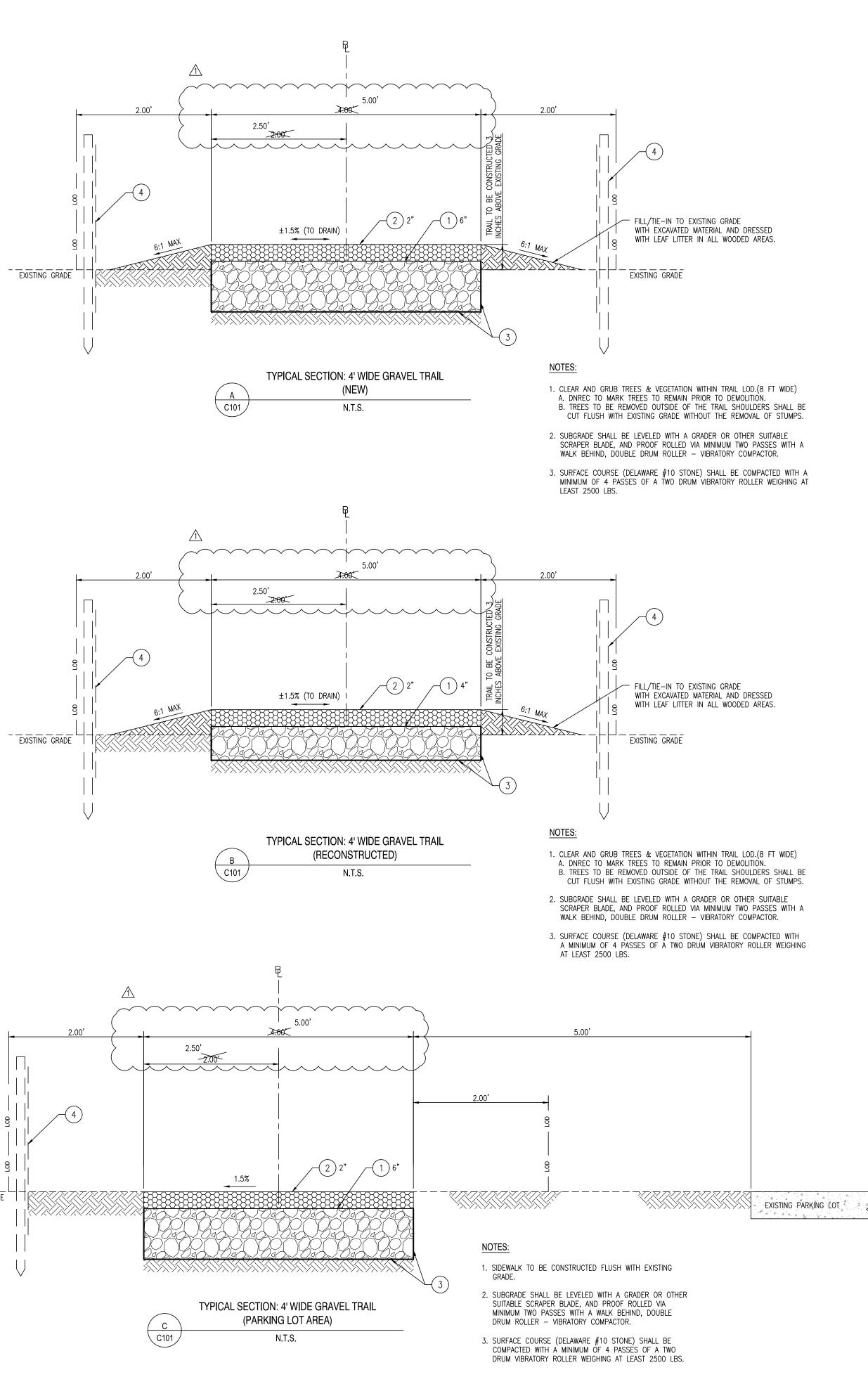
2. THE BASE BID SHALL INCLUDE AN ADDITIONAL 1200 LINEAR FEET OF 5.0 FOOT WIDE GRAVEL TRAIL, AS SHOWN IN DETAIL C, THIS SHEET, TO BE CONSTRUCTED ADJACENT TO THE PARKING LOT AND LOCATED BY THE OWNER IN THE FIELD. THE OWNER SHALL BE RESPONSIBLE FOR ALL ADDITIONAL PERMITTING REQUIRED FOR THIS WORK. IN ADDITION THE CONTRACTOR SHALL PROVIDE A UNIT COST FOR THE ADDITIONAL 1200 LINEAR FEET OF GRAVEL TRAIL FOR INFORMATIONAL PURPOSES

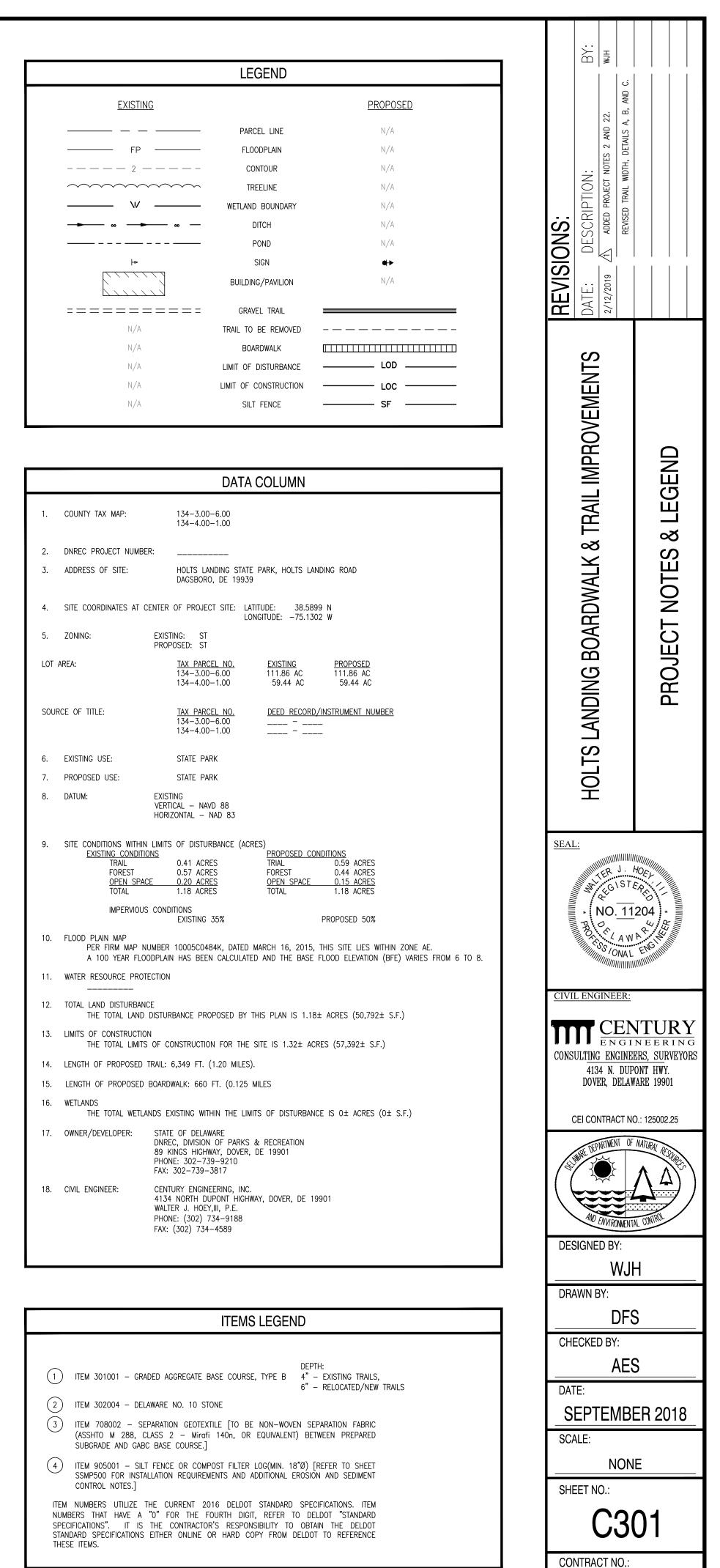
- 3. THESE PLANS HAVE BEEN DEVELOPED IN ACCORDANCE WITH THE CURRENT EDITION OF THE "ACCESSIBILITY STANDARDS FOR FEDERAL OUTDOOR DEVELOPED AREAS".
- 4. PARCEL AND BOUNDARY LINES REFERENCED FROM GIS INFORMATION. NO BOUNDARY SURVEY WAS REQUESTED OR PERFORMED FOR THIS PROJECT.
- 5. THESE PLANS UTILIZE 2-FOOT LIDAR TOPOGRAPHY REFERENCED FROM THE STATE OF DELAWARE. CONVENTIONAL FIELD SURVEY WAS PROVIDED BY CENTURY ENGINEERING USING THE STATE PLANE COORDINATE SYSTEM FOR THE AREA OF THE PROPOSED 600' BOARDWALK ON THE NORTH END OF THE SITE LABELED AS NEW TRAIL ALIGNMENT #5. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL ADDITIONAL PHYSICAL CONTROL AS REQUIRED TO COMPLETE THE WORK AT NO ADDITIONAL COST TO THE OWNER.
- 6. EXISTING UTILITIES SHOWN ARE BASED ON THE BEST INFORMATION AVAILABLE AT THE TIME THIS PLAN WAS DEVELOPED. COMPLETENESS OR CORRECTNESS OF THE UTILITIES SHOWN THEREOF IS NOT GUARANTEED. THE CONTRACTOR IS RESPONSIBLE FOR EMPLOYING AN UNDERGROUND UTILITY LOCATOR TO LOCATE AND MARK EXISTING UTILITIES WITHIN THE LIMIT OF DISTURBANCE PRIOR TO BEGINNING CONSTRUCTION.
- 7. THE CONTRACTOR SHALL STAKE OUT THE ALIGNMENT FOR REVIEW AND APPROVAL BY THE ENGINEER PRIOR TO BEGINNING CONSTRUCTION. MINOR ADJUSTMENT IN THE ALIGNMENT AND/OR PROFILE MAY BE REQUIRED BY THE ENGINEER IN THE FIELD TO AVOID EXISTING FEATURES TO REMAIN, INCLUDING TREES, OR TO PROVIDE OPTIMUM ALIGNMENT. INDIVIDUAL TREES WERE NOT SURVEY LOCATED.
- 8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TEMPORARY RELOCATION OR SUPPORT OF ANY ELECTRICAL AND/OR COMMUNICATION LINES, AND ELECTRICAL/COMMUNICATION PEDESTALS THAT INTERFERE WITH THE PROPOSED WORK AT NO ADDITIONAL COST TO THE PROJECT, AS DIRECTED BY THE ENGINEER. WORK SHALL INCLUDE, BUT IS NOT LIMITED TO, EXCAVATION/TRENCHING, MATERIALS, AND ALL LABOR.
- 9. PORTIONS OF THIS CONTRACT ARE TO BE CONSTRUCTED IN ACCORDANCE WITH DELAWARE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (STANDARD SPECIFICATIONS) DATED AUGUST 2016 INCLUDING ALL REVISIONS UP TO ADVERTISEMENT OF THIS PROJECT, UNLESS NOTED OTHERWISE IN THESE PLANS OR THE SPECIFICATIONS. ITEMS INCLUDING, BUT NOT LIMITED TO, ASPHALT PAVEMENT, AND EXCAVATION AND EMBANKMENT, ARE TO REFER TO THE "STANDARD SPECIFICATIONS" FOR MATERIALS AND METHOD OF CONSTRUCTION.
- 10. LEAF LITTER SHALL BE PULLED BACK AND STOCKPILED AT THE EDGE OF THE LOD TO BE USED TO STABILIZE AND DRESS-UP EDGES/SHOULDERS FOLLOWING GRADING OF SHOULDERS.
- 11. TOPSOIL SHALL BE STRIPPED, STOCKPILED, AND STABILIZED FOR FUTURE USE ON THIS PROJECT IN ACCORDANCE WITH THE DELAWARE EROSION & SEDIMENT CONTROL HANDBOOK, CURRENT EDITION. STOCKPILE AREAS TO BE WITHIN HOLTS LANDING CREEK STATE PARK AT LOCATIONS SHOWN ON THESE PLANS, OR AT AREAS DETERMINED BY THE ENGINEER IN THE FIELD.
- 12. EXCAVATED TOPSOIL SHALL BE USED AS SHOULDER MATERIAL ALONG ENTIRE LENGTH OF TRAIL. ADDITIONALLY, EXCAVATED MATERIAL AT NEW TRAIL CONSTRUCTION SHALL BE SPREAD ON PORTIONS OF THE EXISTING TRAIL(S) TO BE ABANDONED, EXCEPT IN LOCATIONS WHERE THE EXISTING TRAIL IS LOCATED WITHIN WETLANDS. EXCESS EXCAVATED MATERIAL SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE LEGALLY DISPOSED OF OFF SITE.
- 13. CLEARING AND GRUBBING IS ASSUMED TO EXTEND A MINIMUM OF EIGHTEEN (18) INCHES BELOW EXISTING GRADE FOR FOR ALL NEW PAVED AREAS. CLEARING AND GRUBBING WITHIN THE LIMITS OF DISTURBANCE (LOD) SHALL CONSIST OF CLEARING, GRUBBING, REMOVING AND DISPOSING OF ALL TREES, ROOTS, VEGETATION AND DEBRIS OFF SITE, UNLESS OTHERWISE INDICATED AND/OR EXCEPT SUCH OBJECT(S) THAT ARE DESIGNATED TO REMAIN.
- 14. ALL TREE REMOVAL AND TREE TRIMMING WITHIN THE LIMITS OF DISTURBANCE, REGARDLESS OF SIZE, SHALL BE INCIDENTAL TO THE CONTRACT. INDIVIDUAL TREES ARE NOT SHOWN ON THE DRAWINGS BUT MAY BE REMOVED BY THE CONTRACTOR AS NECESSARY AND WITH APPROVAL OF THE ENGINEER WITHIN THE LIMITS OF DISTURBANCE. TREES GREATER THAN 6" IN DIAMETER SHALL BE FLAGGED BY THE CONTRACTOR FOR REVIEW AND APPROVAL BY THE ENGINEER PRIOR TO REMOVAL. THE ENGINEER WILL NOT ACCEPT REMOVAL OF TREES INTENDED TO BE PROTECTED.
- 15. TREES NOT DESIGNATED TO BE REMOVED SHALL BE PROTECTED FROM CONSTRUCTION EQUIPMENT AND COMPACTION OF SOIL WITHIN THE DRIP LINE BY MEANS OF 3'-0" HIGH SENSITIVE AREA PROTECTION (SAP) FENCE, AS SHOWN ON THE EROSION AND SEDIMENT CONTROL PLANS.
- 16. CROSS SLOPE OF ALL NEW WALKWAYS AND TRAILS SHALL NOT EXCEED A SLOPE OF 1:50. LONGITUDINAL SLOPES OF ALL NEW WALKWAYS AND TRAILS SHALL NOT EXCEED 1:20, UNLESS AS SHOWN ON THE CONTRACT PLANS.
- 17. THE CONTRACTOR MAY STORE AND/OR STOCKPILE EQUIPMENT AND MATERIALS WITHIN THE PROJECT SITE LIMIT OF DISTURBANCE (LOD) SHOWN ON PLAN.
- 18. THE CONTRACTOR IS ADVISED THAT CONTRACTOR EMPLOYEE PARKING SHALL BE LIMITED TO THE EXISTING PAVED PARK PARKING AREAS, UNLESS APPROVED BY THE ENGINEER. VEHICLE PARKING SHALL NOT BE ALLOWED ON UNPAVED AREAS.
- 19. FEATURES NOT SPECIFICALLY DESIGNATED FOR DEMOLITION OR REMOVAL THAT ARE DAMAGED BY THE CONTRACTOR OR THE CONTRACTOR'S SUBCONTRACTORS SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE STATE. THE COST FOR REPAIRS OR REPLACEMENT SHALL BE ESTABLISHED BY THE STATE INSURANCE PROVIDER.
- 20. NO CONSTRUCTION, EQUIPMENT, WORK, OR TEMPORARY FILLS SHALL BE ALLOWED WITHIN THE WETLANDS EXCEPT WITHIN THE LOD.
- 22. TEMPORARY CONSTRUCTION MATTING SHALL BE USED FOR ALL EQUIPMENT AND WORKER ACCESS WITHIN THE WETLANDS.
- 21. THE LOC SHALL BE NO WIDER THAN 18'-O" WITHIN THE WETLANDS. THIS INCLUDES: THE PROPOSED 8' WIDE BOARDWALK, A 2' GAP, AND 8' WIDE TEMPORARY CONSTRUCTION MATTING.
- (22. ALL WORK WITHIN THE WETLANDS SHALL BE PERFORMED FROM MATTING WITHIN THE LOD.
 23. WETLANDS DISTURBED BY CONSTRUCTION SHALL BE RESTORED TO MATCH ADJACENT AREA. WETLAND PLANTS SHALL BE PLANTED AS NOTED ON THE EROSION & SEDIMENT CONTROL PLANS.
- 24. THE CONTRACTOR SHALL PROVIDE AND INSTALL TEMPORARY BARRICADES ON TRAILS AND AROUND EQUIPMENT TO DISCOURAGE ACCESS BY PARK PATRONS TO WORK AREAS. ADVANCE WARNING SIGNS SHALL BE PLACED AT TRAIL HEADS TO WARN PEDESTRIANS OF ANY TRAIL CLOSURES.
- 25. SEGMENTS OF THE TRAIL ARE LOCATED WITHIN THE PREHISTORIC ARCHAEOLOGICAL SENSITIVITY-AREA AND SHALL BE MONITORED BY DNREC PERSONNEL DURING THE EXCAVATION AT THOSE LOCATIONS FOR THE PURPOSE OF COLLECTING DISPLACED ARTIFACTS AND TO LOOK FOR SUBSURFACE FEATURES, SO THAT THEY MAY BE EVALUATED AND DOCUMENTED AS APPROPRIATE. POTENTIAL FOR WORK STOPPAGE, IN THE EVENT THAT THE CONTRACTOR UNCOVERS ANYTHING REQUIRING FURTHER REVIEW FOR PRESERVATION, MAY OCCUR.
- 26. TEMPORARY LAYDOWN, TURNAROUND AREAS, AND HAUL ROADS ARE TO BE VERIFIED IN FIELD BY DNREC PARKS STAFFS.

GENERAL NOTES

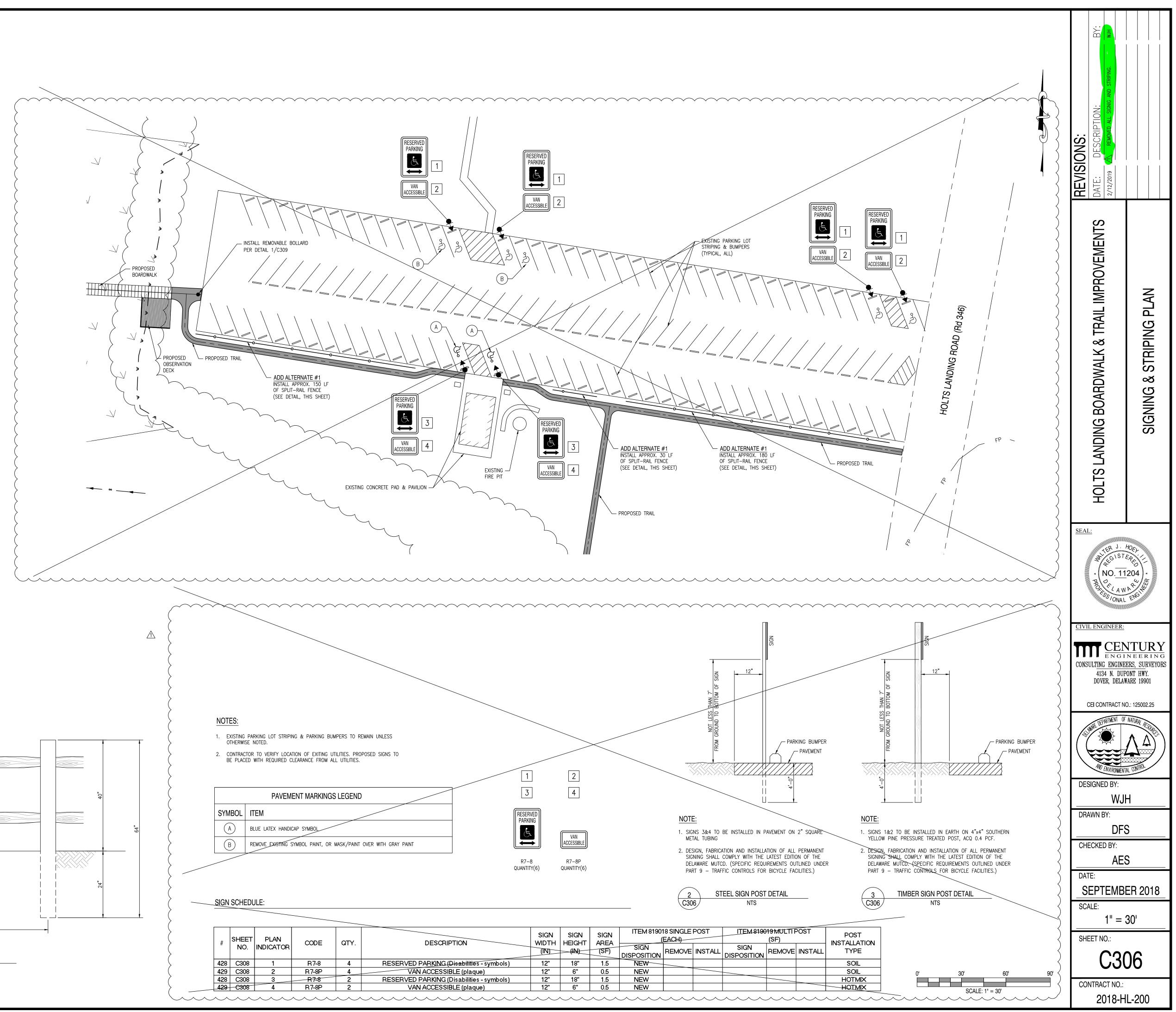
- 1. THE TERM "ENGINEER," "STATE," AND/OR "ARCHITECT" NOTED THROUGHOUT THE CONTRACT PLANS AND SPECIFICATIONS SHALL REFER TO DNREC / STATE PARKS, OR THEIR APPOINTED REPRESENTATIVE. THE TERM "SITE" AND "PARK" MAY BE USED INTERCHANGEABLY THROUGHOUT THESE DOCUMENTS AS A MEANS OF IDENTIFYING HOLTS LANDING STATE PARK.
- 2. THE CONTRACTOR SHALL RESTORE ALL AREAS AFFECTED BY THE CONSTRUCTION SHOWN HEREON AS SHOWN ON THESE PLANS AND SPECIFICATIONS, TO A CONDITION COMPARABLE TO THAT EXISTING PRIOR TO CONSTRUCTION, AND TO THE SATISFACTION OF DNREC.
- 3. THE CONTRACTOR SHALL PROVIDE NECESSARY FACILITIES, INCLUDING BUT NOT LIMITED TO RESTROOMS, DURING CONSTRUCTION. PARK FACILITIES SHALL NOT BE USED.
- 6. THE CONTRACTOR SHALL NOTE THAT IN CASE OF DISCREPANCY BETWEEN THE SCALED AND THE FIGURED DIMENSIONS SHOWN ON THE PLANS, THE FIGURED DIMENSIONS SHALL GOVERN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONFIRMING ALL DIMENSIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR BRINGING ANY DIMENSIONAL DISCREPANCIES TO THE ATTENTION OF THE ENGINEER FOR CLARIFICATION.
- 7. BEFORE EXCAVATION IS STARTED, THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL UNDERGROUND UTILITIES. ALL EXISTING UTILITIES SHALL BE PROTECTED AND TEMPORARILY SUPPORTED OR RELOCATED AS NECESSARY TO COMPLETE THE WORK IN ACCORDANCE WITH THE PERTINENT OWNER/UTILITY COMPANY REQUIREMENTS. ANY UTILITIES DAMAGED BY THE CONTRACTOR SHALL BE PROMPTLY AND FULLY RESTORED TO THE SATISFACTION OF THE OWNER.
- 8. THE CONTRACTOR SHALL DESIGNATE A PERSON WHO SHALL BE RESPONSIBLE FOR IMPLEMENTING AND MAINTAINING THE EROSION AND SEDIMENT CONTROL PLANS, A PERSON WHO SHALL BE RESPONSIBLE FOR IMPLEMENTING AND MAINTAINING THE TRAFFIC CONTROL, AND A PERSON WHO SHALL BE RESPONSIBLE FOR WORKER SAFETY. THE PERSON RESPONSIBLE FOR IMPLEMENTING AND MAINTAINING THE EROSION AND SEDIMENT CONTROL PLANS SHALL BE CERTIFIED BY DNREC FOR EROSION AND SEDIMENT CONTROL RESPONSIBILITY (CERTIFIED CONSTRUCTION REVIEWER).
- 9. THE CONTRACTOR IS RESPONSIBLE FOR SECURING THE AREA WITHIN THE LIMITS OF CONSTRUCTION TO PROHIBIT PUBLIC ACCESS UNTIL COMPLETION OF THE PROJECT. THE CONTRACTOR'S PROCEDURE/METHOD FOR LIMITING ACCESS SHALL BE REVIEWED BY, AND COORDINATED WITH DNREC PRIOR TO THE START OF WORK. THE COST TO INSTALL, RELOCATE, AND MAINTAIN SITE SECURITY SHALL BE INCIDENTAL TO THE CONTRACT.
- 10. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR OBTAINING OFF-SITE SPOIL AREAS FOR LEGAL DISPOSAL OF EXCESS MATERIAL NOT ACCEPTED BY THE PARK AND/OR UNSUITABLE MATERIALS AS NECESSARY IN ACCORDANCE WITH ALL FEDERAL, STATE, AND LOCAL REQUIREMENTS. ALL COST FOR RECYCLING, TRANSPORTING TO, PROCURING AND UTILIZING THE OFF-SITE SPOIL AREAS ARE TO BE INCIDENTAL TO THE CONTRACT.
- 11. IN CASE OF CONFLICT BETWEEN THE "MANUFACTURER'S RECOMMENDATIONS" FOR AN APPROVED MATERIAL AND THE GOVERNING "CONTRACT SPECIFICATIONS" FOR THE MATERIAL, THE MORE RESTRICTIVE OF THE TWO SHALL PREVAIL, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
- 12. THE CONSTRUCTION PLANS PRESENT A CONCEPT OF THE RELATIONSHIP BETWEEN TRAFFIC CONTROL, EROSION CONTROL, ETC. ANY REVISION TO THE DETAILS OR SEQUENCE SHOWN ON THE CONSTRUCTION PLANS SHALL BE PREPARED BY THE CONTRACTOR ON STANDARD DNREC PLAN SHEETS AND SUBMITTED FOR REVIEW AND APPROVAL BY THE ENGINEER. THE PLANS SHALL BE PREPARED IN ACCORDANCE WITH CURRENT DELDOT AND DNREC STANDARDS FOR TRAFFIC CONTROL, EROSION AND SEDIMENT CONTROL (PREPARED BY A CERTIFIED CONSTRUCTION REVIEWER), STORM WATER MANAGEMENT, ETC. AND SHALL BE SIGNED AND SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF DELAWARE. ALL REQUIRED CALCULATIONS, REPORTS, ETC. SHALL ALSO ACCOMPANY THE SUBMISSION. THE NUMBER OF COPIES REQUIRED TO BE SUBMITTED FOR REVIEW SHALL BE DETERMINED BY DNREC, DEPENDING ON THE NATURE OF THE PROPOSED REVISION. THE CONTRACTOR SHALL NOTE THAT THE REVISIONS TO THE CONSTRUCTION PLANS, AS WELL AS REVIEW TIME BY DNREC, WILL NOT JUSTIFY A DELAY IN THE CONSTRUCTION SCHEDULE. REVISIONS INVOLVING UTILITIES WILL REQUIRE THE COMPLETION OF A UTILITY STATEMENT APPROVED BY THE RESPECTIVE UTILITIES AS PART OF THE PLAN DOCUMENTS. ALL COSTS INVOLVED IN PREPARING THE PLAN REVISIONS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- 13. THESE DRAWINGS DO NOT INCLUDE NECESSARY ELEMENTS OF CONSTRUCTION SAFETY. ALL CONSTRUCTION, INCLUDING EXCAVATION, MUST BE COMPLETED IN ACCORDANCE WITH THE REQUIREMENTS OF THE OCCUPATIONAL SAFETY AND HEALTH ACT, CFR §1926.652(b)(2), AND ALL FEDERAL, STATE AND LOCAL REQUIREMENTS. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR ALL WORK SITE SAFETY.
- 14. NO DEBRIS SHALL BE BURIED OR BURNED ON THE SITE UNLESS SPECIFICALLY NOTED WITHIN THESE PLANS OR SPECIFICATIONS.
- 15. THE CONTRACTOR SHALL CONTACT MISS UTILITY TWO (2) CONSECUTIVE WORKING DAYS PRIOR TO EXCAVATION, OR AS REQUIRED BY LAW, AT 1-800-282-8555.

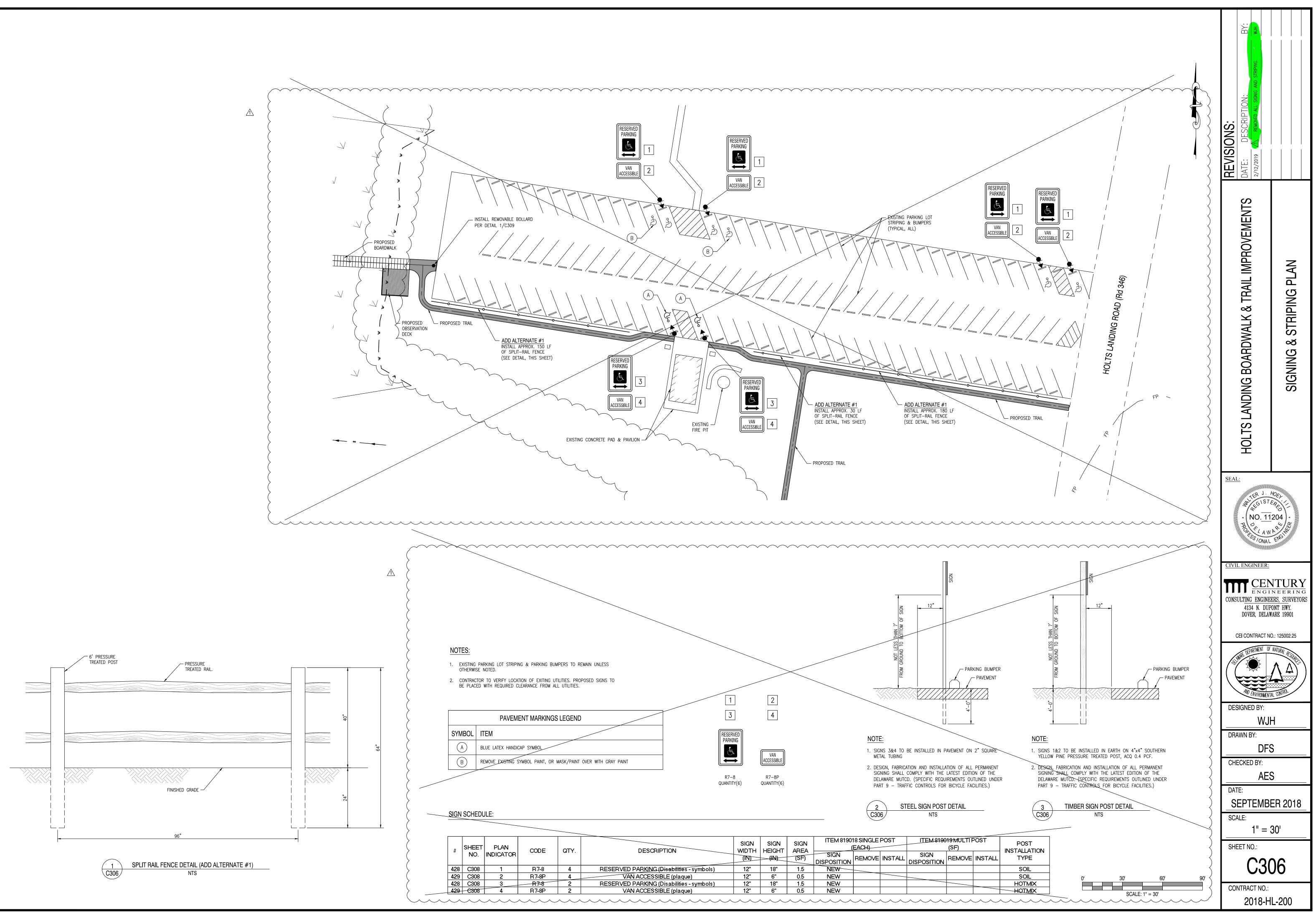
EXISTING GRADE

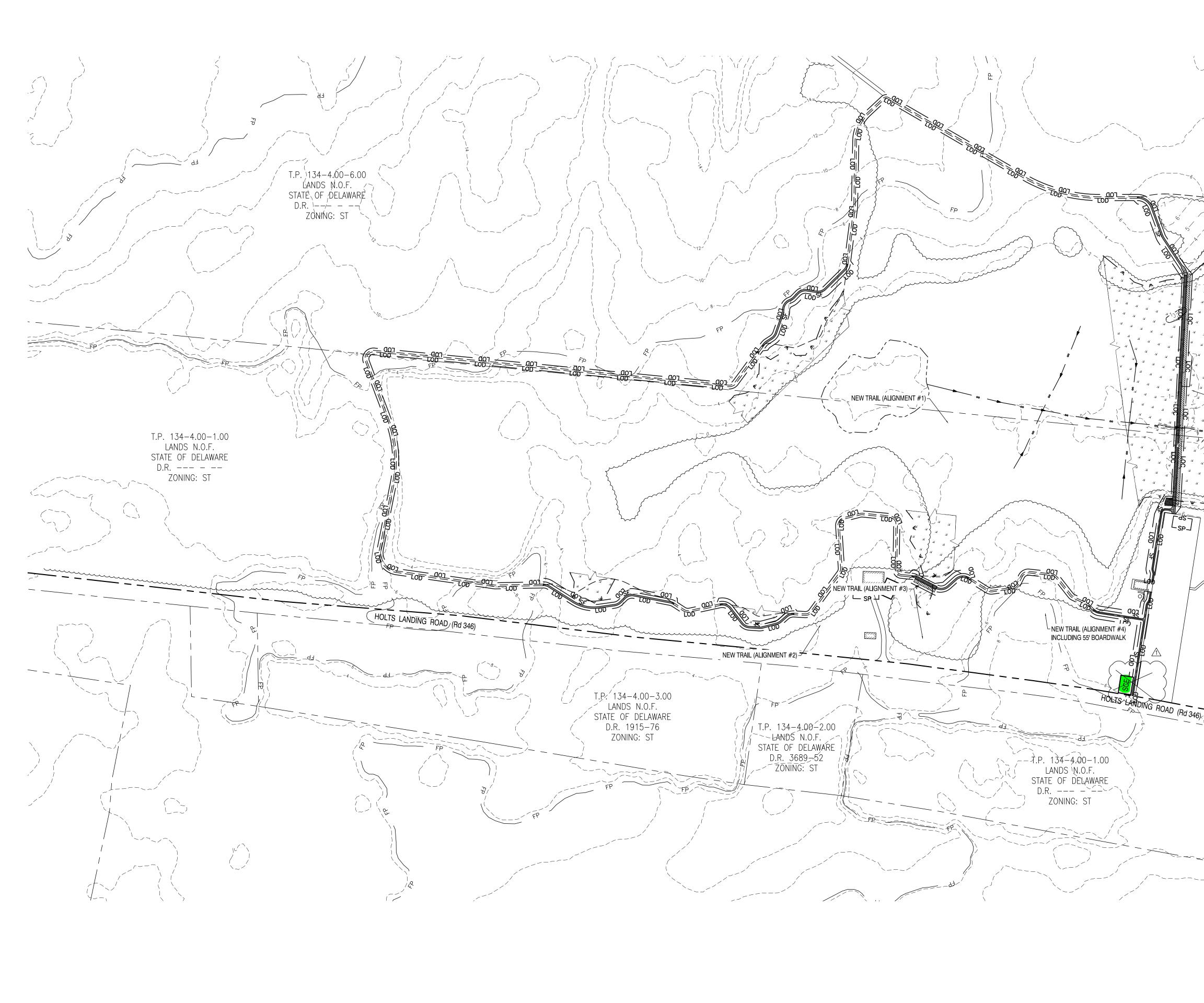




2018-HL-200







		REVISIONS:DATE:DESCRIPTION:2/12/2019ADeleted stabilized construction entrance	
A NEW TRAIL (ALIGNMENT #5) INCLUDING 600' BOARDWALK		HOLTS LANDING BOARDWALK & TRAIL IMPROVEMENTS	SEDIMENT & STORMWATER MANAGEMENT PLAN (OVERALL SITE/PROPERTY)
		CIVIL ENGINEER CIVIL ENGINEER CONSULTING ENGIN	NTURY INEERING EERS, SURVEYORS
	 GENERAL NOTES: PARCEL LINES REFERENCED FROM STATE OF DELAWARE (FIRSTMAP.DELWARE.GOV). 2' LIDAR CONTOURS REFERENCED FROM STATE OF DELAWARE (FIRSTMAP.DELWARE.GOV). WETLANDS SHOWN ARE ONLY THOSE IDENTIFIED WITHIN THE LIMITS OF INVESTIGATION AND SHOULD NOT BE CONSIDERED AS ALL INCLUSIVE. WORK SHALL BE PHASED SUCH THAT ALL STRIPPED AREAS SHALL BE STABILIZED WITH STONE OR MULCHING AT THE END OF EACH DAY IN ORDER TO PREVENT EROSION ALONG THE PROPOSED TRAIL. TOPSOIL SHALL BE STOCKPILED ON SITE. IF TRAIL EXCAVATION WILL REMAIN OPEN FOR GREATER THAN 48 HOURS, THE CONTRACTOR SHALL PLACE SILT FENCE OR COMPOST FILTER LOGS ALONG THE DOWNHILL SIDE OF THE PROPOSED TRAIL. 	4134 N. DUPONT HWY. DOVER, DELAWARE 19901 CEI CONTRACT NO.: 125002.25 CEI CONTRACT NO.: 125002.25 DESIGNED BY: DESIGNED BY: DESIGNED BY: DRAWN BY: DFS CHECKED BY: AES	
	WETLAND NOTES:1. REMOVAL OF VEGETATION WITHIN WETLANDS SHALL BE DONE BY HAND. VEGETATION SHALL BE REMOVED SUCH THAT STUMPS ARE FLUSH WITH THE EXISTING GROUND ELEVATION. NO GRUBBING OF STUMPS OR OTHER VEGETATION SHALL OCCUR WITHIN THE WETLAND LIMITS.0" 100' 20' 300' $100' 100' 20' 300'100' 100' 20' 300'100' 100' 20' 300'100' 100' 100' 300'100' 100' 100' 300'100' 100' 100' 300'100' 100' 100' 300'100' 100' 100' 100' 300'100' 100' 100' 100' 300'100' 100' 100' 100' 100' 100'100' 100' 100' 100' 100' 100'100' 100' 100' 100' 100' 100' 100'100' 100' 100' 100' 100' 100' 100' 100'$	DATE: SEPTEME SCALE: 1"=2 SHEET NO.: SHEET NO.: CONTRACT NO.: 2018-F	200' 2500.1