

Construction Agreement No.: 2017-C-799-013

THIS CONSTRUCTION AGREEMENT (this "Agreement") is made and entered into by and between the State of Florida, Department of Transportation, (Address) 5211 Ulmerton Rd, Clearwater, FL 33760 (hereinafter referred to as the "DEPARTMENT") and Erin Lawson (Address) 14 S. Ft. Harrison Ave, Clearwater, FL 33756 (hereinafter referred to as the "Construction Coordinator").

WITNESSETH:

WHEREAS, the DEPARTMENT is authorized and required by Section 334.044(13), Florida Statutes, to coordinate the planning, development, and operation of the State Highway System; and

WHEREAS, pursuant to Section 339.282, Florida Statutes, the DEPARTMENT may contract with a property owner to finance, construct, and improve public transportation facilities; and

WHEREAS, the Construction Coordinator proposes to construct certain improvements to SR SR 590 Section 050 Subsection 000 from Begin MP 3.660 to End MP 4.294 Local Name NE Coachman Rd located in Pinellas County (hereinafter referred to as the "Project"); and

WHEREAS, the parties desire to enter into this Agreement for the Construction Coordinator to make improvements within the DEPARTMENT'S right of way to construct the Project, which will become the property of the Department upon acceptance of the work.

NOW, THEREFORE, based on the premises above, and in consideration of the mutual covenants contained herein, the parties hereby agree that the construction of the Project shall proceed in accordance with the following terms and conditions:

1. The recitals set forth above are specifically incorporated herein by reference and made a part of this Agreement. The Construction Coordinator is authorized, subject to the conditions set forth herein, to enter the DEPARTMENT'S right of way to perform all activities necessary for the construction of See attached exhibit A scope of services/special provisions.

2. The Project shall be designed and constructed in accordance with the latest edition of the DEPARTMENT'S Standard Specifications for Road and Bridge Construction and DEPARTMENT Design Standards and Manual of Uniform Traffic Control Devices ("MUTCD"). The following guidelines shall apply as deemed appropriate by the DEPARTMENT: the DEPARTMENT Structures Design Manual, AASHTO Guide Specifications for the Design of Pedestrian Bridges, AASHTO LRFD Bridge Design Specifications, the DEPARTMENT Plans Preparation Manual ("PPM") Manual for Uniform Minimum Standards for Design, Construction and Maintenance for Streets and Highways (the "Florida Green Book") and the DEPARTMENT Traffic Engineering Manual. The Construction Coordinator will be required to submit any construction plans required by the DEPARTMENT for review and approval prior to any work being commenced. Should any changes to the plans be required during construction of the Project, the Construction Coordinator shall be required to notify the DEPARTMENT of the changes and receive approval from the DEPARTMENT prior to the changes being constructed. The Construction Coordinator shall maintain the area of the project at all times and coordinate any work needs of the DEPARTMENT during construction of the project.

3. The Construction Coordinator shall notify the DEPARTMENT a minimum of 48 hours before beginning construction within DEPARTMENT right of way. The Construction Coordinator shall notify the DEPARTMENT should construction be suspended for more than 5 working days.

4. Pursuant to Section 7-13 of the DEPARTMENT Standard Specifications, the Construction Coordinator is required to possess a general liability insurance naming the DEPARTMENT as an additional insured and insuring the DEPARTMENT and the Construction Coordinator against any and all claims for injury or damage to persons and property, and for the loss of life or property that may occur (directly or indirectly) by reason of the Construction Coordinator accessing DEPARTMENT right of way and the Construction Coordinator's performance of the Project. Such amount shall be carried in a minimum amount of not less than _____ and 00/100 Dollars (\$ _____) for bodily injury or death to any one person or any number of persons in any one occurrence, and not less than _____ and 00/100 Dollars (\$ _____) for property damage, or a combined coverage of not less than _____ and 00/100 Dollars (\$ _____). Additionally, the Construction Coordinator shall supply the DEPARTMENT with a payment and performance bond in the amount of the estimated cost of construction, provided by a surety authorized to do business in the State of Florida, payable to the DEPARTMENT. The bond and insurance shall remain in effect until completion of construction and acceptance by the DEPARTMENT. Prior to commencement of the Project and on such other occasions as the DEPARTMENT may reasonably require, the Construction Coordinator shall provide the DEPARTMENT with certificates documenting that the required insurance coverage is in place and effective. If the Construction Coordinator is a governmental entity they will be exempt from these requirements.

5. The Construction Coordinator shall be responsible for monitoring construction operations and the maintenance of traffic ("MOT") throughout the course of the project in accordance with the latest edition of the DEPARTMENT Standard Specifications, section 102. The Construction Coordinator is responsible for the development of a MOT plan and making any changes to that plan as necessary. The MOT plan shall be in accordance with the latest version of the DEPARTMENT Design Standards, Index 600 series. Any MOT plan developed by the Construction Coordinator that deviates from the DEPARTMENT Design Standards must be signed and sealed by a professional engineer. MOT plans will require approval by the DEPARTMENT prior to implementation.

6. The Construction Coordinator shall be responsible for locating all existing utilities, both aerial and underground, and for ensuring that all utility locations be accurately documented on the construction plans. All utility conflicts shall be fully resolved directly with the applicable utility.

Approved
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Brian Bennett
2/8/2018

7. The Construction Coordinator will be responsible for obtaining all permits that may be required by other agencies or local governmental entities.

8. It is hereby agreed by the parties that this Agreement creates a permissive use only and all improvements resulting from this agreement shall become the property of the DEPARTMENT. Neither the granting of the permission to use the DEPARTMENT right of way nor the placing of facilities upon the DEPARTMENT property shall operate to create or vest any property right to or in the Construction Coordinator, except as may otherwise be provided in separate agreements. The Construction Coordinator shall not acquire any right, title, interest or estate in DEPARTMENT right of way, of any nature or kind whatsoever, by virtue of the execution, operation, effect, or performance of this Agreement including, but not limited to, the Construction Coordinator's use, occupancy or possession of DEPARTMENT right of way. The parties agree that this Agreement does not, and shall not be construed to, grant credit for any future transportation concurrency requirements pursuant to chapter 163, Florida Statutes.

9. The Construction Coordinator shall perform all required testing associated with the design and construction of the project. Testing results shall be made available to the DEPARTMENT upon request. The DEPARTMENT shall have the right to perform its own independent testing during the course of the Project.

10. The Construction Coordinator shall exercise the rights granted herein and shall otherwise perform this Agreement in a good and workmanlike manner, with reasonable care, in accordance with the terms and provisions of this Agreement and all applicable federal, state, local, administrative, regulatory, safety and environmental laws, codes, rules, regulations, policies, procedures, guidelines, standards and permits, as the same may be constituted and amended from time to time, including, but not limited to, those of the DEPARTMENT, applicable Water Management District, Florida Department of Environmental Protection, Environmental Protection Agency, the Army Corps of Engineers, the United States Coast Guard and local governmental entities.

11. If the DEPARTMENT determines a condition exists which threatens the public's safety, the DEPARTMENT may, at its discretion, cause construction operations to cease and immediately have any potential hazards removed from its right of way at the sole cost, expense, and effort of the Construction Coordinator. The Construction Coordinator shall bear all construction delay costs incurred by the DEPARTMENT.

12. All work and construction shall be completed within 450 days of the date of the last signature affixed to this agreement. If construction is not completed within this time, the DEPARTMENT may make a claim on the bond. The DEPARTMENT may terminate this Agreement at any time, with or without cause and without DEPARTMENT liability to the Construction Coordinator, by providing sixty (60) days prior written notice of termination to the Construction Coordinator.

13. The Construction Coordinator shall be responsible to maintain and restore all features that might require relocation within the DEPARTMENT right of way.

14. The Construction Coordinator will be responsible for clean up or restoration required to correct any environmental or health hazards that may result from construction operations.

15. Upon completion of construction, the Construction Coordinator will be required to submit to the DEPARTMENT final as-built plans and an engineering certification that construction was completed in accordance to the plans. Prior to the termination of this Agreement, the Construction Coordinator shall remove its presence, including, but not limited to, all of the Construction Coordinator's property, machinery, and equipment from DEPARTMENT right of way and shall restore those portions of DEPARTMENT right of way disturbed or otherwise altered by the Project to substantially the same condition that existed immediately prior to the commencement of the Project.

16. If the DEPARTMENT determines that the Project is not completed in accordance with the provisions of this Agreement, the DEPARTMENT shall deliver written notification of such to the Construction Coordinator. The Construction Coordinator shall have thirty (30) days from the date of receipt of the DEPARTMENT'S written notice, or such other time as the Construction Coordinator and the DEPARTMENT mutually agree to in writing, to complete the Project and provide the DEPARTMENT with written notice of the same (the "Notice of Completion"). If the Construction Coordinator fails to timely deliver the Notice of Completion, or if it is determined that the Project is not properly completed after receipt of the Notice of Completion, the DEPARTMENT, within its discretion may: 1) provide the Construction Coordinator with written authorization granting such additional time as the DEPARTMENT deems appropriate to correct the deficiency(ies); or 2) correct the deficiency(ies) at the Construction Coordinator's sole cost and expense, without DEPARTMENT liability to the Construction Coordinator for any resulting loss or damage to property, including, but not limited to, machinery and equipment. If the DEPARTMENT elects to correct the deficiency(ies), the DEPARTMENT shall provide the Construction Coordinator with an invoice for the costs incurred by the DEPARTMENT and the Construction Coordinator shall pay the invoice within thirty (30) days of the date of the invoice.

17. Nothing in this Agreement shall be deemed or otherwise interpreted as waiving the DEPARTMENT'S sovereign immunity protections, or as increasing the limits of liability as set forth in Section 768.28, Florida Statutes. The DEPARTMENT'S liability for breach of this Agreement is limited in amount and shall not exceed the limitations of liability for tort actions as set forth in Section 768.28(5), Florida Statutes.

18. All formal notices, proposed changes and determinations between the parties hereto and those required by this Agreement, including, but not limited to, changes to the notification addresses set forth below, shall be in writing and shall be sufficient if mailed by regular United States mail, postage prepaid, to the parties at the contact information listed below.

19. The Construction Coordinator shall not cause any liens or encumbrances to attach to any portion of DEPARTMENT right of way.

20. This Agreement shall be governed by the laws of the State of Florida in terms of interpretation and performance. Venue for any and all actions arising out of or in any way related to the interpretation, validity, performance or breach of this Agreement shall lie exclusively in a state court of appropriate jurisdiction in Leon County, Florida.

21. The Construction Coordinator may not assign, pledge or transfer any of the rights, duties and obligations provided in this Agreement without the prior written consent of the DEPARTMENT'S District Secretary or his/her designee. The DEPARTMENT has the sole discretion and authority to grant or deny proposed assignments, with or without cause. Nothing herein shall prevent the Construction Coordinator from delegating its duties hereunder, but such delegation shall not release the Construction Coordinator from its obligation to perform this Agreement.

Approved
Brian Bennett
2/8/2018

22. This Agreement shall be binding upon and inure to the benefit of the parties hereto and their respective successors and assigns. Nothing in this Agreement is intended to confer any rights, privileges, benefits, obligations or remedies upon any other person or entity except as expressly provided for herein.

23. This instrument, together with the attached exhibits and documents made part hereof by reference, contain the entire agreement of the parties and no representations or promises have been made except those that are specifically set out in this Agreement. All prior and contemporaneous conversations, negotiations, possible and alleged agreements and representations, covenants, and warranties with respect to the subject matter of this Agreement, and any part hereof, are waived, merged herein and superseded hereby.

24. By their signature below, the parties hereby acknowledge the receipt, adequacy and sufficiency of consideration provided in this Agreement and forever waive the right to object to or otherwise challenge the same.

25. The failure of either party to insist on one or more occasions on the strict performance or compliance with any term or provision of this Agreement shall not be deemed a waiver or relinquished in the future of the enforcement thereof, and it shall continue in full force and effect unless waived or relinquished in writing by the party seeking to enforce the same.

26. No term or provision of this Agreement shall be interpreted for or against any party because that party or that party's legal representative drafted the provision.

27. If any section, paragraph, clause or provision of this Agreement is adjudged by a court, agency or authority of competent jurisdiction to be invalid, illegal or otherwise unenforceable, all remaining parts of this Agreement shall remain in full force and effect and the parties shall be bound thereby so long as principle purposes of this Agreement remain enforceable.

28. A modification or waiver of any of the provisions of this Agreement shall be effective only if made in writing and executed with the same formality as this Agreement.

29. The Construction Coordinator agrees to promptly indemnify, defend, save and hold harmless the DEPARTMENT and all of its officers, agents and employees from and pay all demands, claims, judgments, liabilities, damages, fines, fees, taxes, assessments, penalties, costs, expenses, attorneys' fees and suits of any nature or kind whatsoever caused by, or arising out of or related to the performance or breach of this Agreement by the Construction Coordinator, including, without limitation, performance of the Project within the DEPARTMENT'S right of way. The term "liabilities" shall specifically include, without limitation, any act, action, neglect or omission by the Construction Coordinator, its officers, agents, employees or representatives in any way pertaining to this Agreement, whether direct or indirect, except that neither the Construction Coordinator nor any of its officers, agents, employees or representatives will be liable under this provision for damages arising out of injury or damages directly caused or resulting from the sole negligence, intentional or wrongful acts of the DEPARTMENT or any of its officers, agents or employees. The Construction Coordinator shall notify the DEPARTMENT in writing immediately upon becoming aware of such liabilities. The Construction Coordinator's inability to evaluate liability, or its evaluation of liability, shall not excuse performance of the provisions of this paragraph. The indemnities assumed by the Construction Coordinator shall survive termination of this Agreement. The insurance coverage and limits required in this Agreement may or may not be adequate to protect the DEPARTMENT and such insurance coverage shall not be deemed a limitation on the Construction Coordinator's liability under the indemnities granted to the DEPARTMENT in this Agreement.

30. Construction Coordinator:

- (1) shall utilize the U.S. Department of Homeland Security's E-Verify system to verify the employment eligibility of all new employees hired by the Construction Coordinator during the term of the contract; and
- (2) shall expressly require any subcontractors performing work or providing services pursuant to the state contract to likewise utilize the U.S. Department of Homeland Security's E-Verify system to verify the employment eligibility of all new employees hired by the subcontractor during the contract term.

31. COMPLIANCE WITH LAWS

The Construction Coordinator shall allow public access to all documents, papers, letters, or other material subject to the provisions of Chapter 119, Florida Statutes, and made or received by the Construction Coordinator in conjunction with this Agreement. Specifically, if the Construction Coordinator is acting on behalf of a public agency the Construction Coordinator shall:

- (1) Keep and maintain public records that ordinarily and necessarily would be required by the Department in order to perform the services being performed by the Construction Coordinator.
- (2) Provide the public with access to public records on the same terms and conditions that the Department would provide the records and at a cost that does not exceed the cost provided in Chapter 119, Florida Statutes, or as otherwise provided by law.
- (3) Ensure that public records that are exempt or confidential and exempt from public records disclosure requirements are not disclosed except as authorized by law.
- (4) Meet all requirements for retaining public records and transfer, at no cost, to the Department all public records in possession of the Construction Coordinator upon termination of the contract and destroy any duplicate public records that are exempt or confidential and exempt from public records disclosure requirements. All records stored electronically must be provided to the Department in a format that is compatible with the information technology systems of the Department. Failure by the Construction Coordinator to grant such public access shall be grounds for immediate unilateral cancellation of this Agreement by the Department. The Construction Coordinator shall promptly provide the Department with a copy of any request to inspect or copy public records in possession of the Construction Coordinator and shall promptly provide the Department a copy of the Construction Coordinator's response to each such request.

Approved
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Brian Bennett
2/8/2018

DEPARTMENT and such insurance coverage shall not be deemed a limitation on the Construction Coordinator's liability under the indemnities granted to the DEPARTMENT in this Agreement.

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- (2) Provide the public with access to public records on the same terms and conditions that the Department would provide the records and at a cost that does not exceed the cost provided in Chapter 119, Florida Statutes, or as otherwise provided by law.
- (3) Ensure that public records that are exempt or confidential and exempt from public records disclosure requirements are not disclosed except as authorized by law.
- (4) Meet all requirements for retaining public records and transfer, at no cost, to the Department all public records in possession of the Construction Coordinator upon termination of the contract and destroy any duplicate public records that are exempt or confidential and exempt from public records disclosure requirements. All records stored electronically must be provided to the Department in a format that is compatible with the information technology systems of the Department. Failure by the Construction Coordinator to grant such public access shall be grounds for immediate unilateral cancellation of this Agreement by the Department. The Construction Coordinator shall promptly provide the Department with a copy of any request to inspect or copy public records in possession of the Construction Coordinator and shall promptly provide the Department a copy of the Construction Coordinator's response to each such request.

CONSTRUCTION COORDINATOR CONTACT INFORMATION

Name Erin Lawson, P.E. Title Project Manager
Office No. 727-464-3176 Cell 727-771-5917 Email elawson@pinellascounty.org

Name _____ Title _____
Office No. _____ Cell _____ Email _____

Mail Address 14 S. Ft. Harrison Avenue, Clearwater, FL 33756

IN WITNESS WHEREOF, Construction Coordinator and the DEPARTMENT have executed this Agreement for the purposes herein expressed on the dates indicated below.

CONSTRUCTION COORDINATOR

By: Mark S. Woodard (Signature)
Mark S. Woodard (Print Name)
County Administrator (Title)
May 8, 2017 (Date)

DEPARTMENT OF TRANSPORTATION

By: Brian A. Bennett (Signature)
BRIAN A. BENNETT (Print Name)
PINELLAS OPERATIONS (Title)
PROGRAM ENGINEER (Title)
02/08/2018 (Date)

Approved as to Form
Subject to Proper Execution,
Including Execution of Addendum

By: Christy D. ...
Office of the County Attorney

Legal Review:

Martha D. ...
2017-C-799-013
Brian Bennett
2/8/2018

ADDENDUM TO CONSTRUCTION AGREEMENT

THIS ADDENDUM TO CONSTRUCTION AGREEMENT is made and entered into between the State of Florida, Department of Transportation, and Pinellas County, Florida (Construction Coordinator), as an Addendum to that certain Construction Agreement entered into by the parties of even date herewith. Paragraph 29 of the above described Construction Agreement is amended as follows:

29. The County agrees to defend, indemnify, save and hold harmless the Department, including its officers, agents and employees from all suits, actions, claims, demands, damages and liabilities of any nature whatsoever arising out of any intentional, negligent or wrongful act(s) or omission(s) by the County, including its agents, employees, contractors, subcontractors, consultants or subconsultants, which occur or are alleged to have occurred in connection with the Project. This provision does not apply to the extent that any such acts or omissions are made by the Department. This paragraph shall not be construed as a waiver of either party's sovereign immunity.

The County agrees to include the following indemnification in all contracts with contractors/subcontractors, consultants/subconsultants, who perform work in accordance with this Agreement:

"The contractor/consultant shall defend, indemnify, save and hold harmless the Department, including its officers agents and employees from all suits, actions, claims, demands, damages and liabilities of any nature whatsoever arising out of, or because of, or due to any negligent act or occurrence of omission or commission of the contractor/consultant, its officers, agents or employees."

IN WITNESS WHEREOF, the parties hereto have executed this Addendum to Construction Agreement for the purposes herein expressed on the dates indicate below.

Construction Coordinator
Pinellas County, Florida
By: Mark S. Woodard
Mark S. Woodard (Print Name)
County Administrator (Title)
May 8, 2017 (Date)

State of Florida
Department of Transportation
By: Brian A. Bennett
BRIAN A. BENNETT (Print Name)
PINELLAS OPERATIONS (Title)
PROGRAM ENGINEER (Title)
02/08/2018 (Date)

Legal Review:
Marta Henery

APPROVED AS TO FORM

By: Cheryl Doraan Pambela
Office of the County Attorney

Approved
2017-C-799-013
Brian Bennett
2/8/2018

Before work is to begin under this agreement, the Construction Coordinator or Construction Agreement Applicant must change the status of the permit to “work initiated” on the One Stop Permitting website 48 hours in advance of beginning work.

Upon completion of the construction performed under this Construction Agreement, the Construction Coordinator or Construction Agreement Applicant shall notify the Department that construction is complete by changing the permit’s status within the One Stop Permitting (OSP) Website from “Work Initiated” to “Construction Complete”, and the Permittee shall certify final inspections completed within OSP.

<https://gis.dot.state.fl.us/OneStopPermitting/Home>

Approved
2017-C-799-013
Brian Bennett
2/8/2018

**All work and inspections must
be scheduled with
Broadspectrum Services prior
to beginning work within the
right of way. Please contact:**

Ferrovia Services @ (727) 573-7672

**Permittee shall notify TMC @ (813) 615-8657 of the
exact time any lane closure begins and a second
phone call when the lane closure is removed.**

Approved
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Brian Bennett
2/8/2018



ENGINEER'S ESTIMATE OF PROBABLE COST

Project Code	001020A		
Project Name	INTERSECTION IMPROVEMENTS-NE COACHMAN RD AT OLD COACHMAN RD		
Estimate ID	001020A		
Estimate Name	NE COACHMAN ROAD AT OLD COACHMAN ROAD		
Included Bids	Base Bid		
Estimate Type	Draft	Estimate Total (\$)	1,389,533.41

Base Bid

Line No.	Pay Item No.	Description	Quantity	Unit	Unit Value (\$)	Extended Value (\$)
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Notes

ROADWAY / DRAINAGE

1	380-2300	MILLING EXISTING ASPHALT PAVEMENT, 3" Average Depth	6,433.00	SY	3.85	24,767.05
2	104-7	INLET PROTECTION SYSTEMS	2.00	EA	340.00	680.00
3	101-0100	MOBILIZATION	1.00	LS	106,485.89	106,485.89
4	102-0100	MAINTENANCE OF TRAFFIC	1.00	LS	96,805.36	96,805.36
5	104-6	SEDIMENT BARRIERS	3,608.00	LF	2.50	9,020.00
6	110-0100	CLEARING & GRUBBING	1.00	LS	51,546.48	51,546.48
8	120-0070	TOPSOIL, 6"	4.00	SY	125.00	500.00
10	125-3057	BEDDING MATERIAL, Crushed Stone, size #57				

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 Brian Bennett
 2/8/2018



ENGINEER'S ESTIMATE OF PROBABLE COST

			7.30 TN	40.00	292.00
11	160-0009	STABILIZATION, Type B, LBR 40, 9" Min. Thickness			
			3,403.00 SY	16.00	54,448.00
12	285-701	Optional Base, Base Group 1			
			1,701.00 SY	17.56	29,869.56
13	285-710	Optional Base, Base Group 10			
			1,725.00 SY	24.88	42,918.00
14	334-3125-090	SUPERPAVE ASPHALT CONCRETE, Type SP 12.5, Fine, Traffic Level B, Variable Thickness			
			1,664.00 TN	110.00	183,040.00
15	380-1100	MILLING EXISTING ASPHALT PAVEMENT, 1" Average Depth			
			719.00 SY	5.00	3,595.00
16	400-1-3	CONCRETE CLASS I, Gravity Walls			
			16.42 CY	661.76	10,866.10
17	425-560-0000	INLET, Closed Fume, FDOT index			
			1.00 EA	4,898.51	4,898.51
18	430-121-0024	PIPE CULVERT, CONCRETE, Round 24" ID			
			119.00 LF	99.17	11,801.23
19	430-450-0024	END SECTION, MITERED, Side Drain, 24" RCP			
			1.00 EA	1,398.66	1,398.66
20	514-10	FILTER FABRIC, (for sidewalk)			
			25.00 SY	10.75	268.75
21	515-8701	HANDRAIL, Aluminum Pipe, FDOT Index 870, Pedestrian Height			
			104.00 LF	88.29	9,182.16

Approved
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Brian Bennett
2/8/2018



ENGINEER'S ESTIMATE OF PROBABLE COST

22	520-1000-1000	CURB & GUTTER, Concrete, FDOT Type F	132.00 LF	29.00	3,828.00
23	522-0004	SIDEWALK, CONCRETE, 4" Min. Thickness	1,360.00 SY	50.77	69,047.20
24	522-0006	SIDEWALK, CONCRETE, 6" Min. Thickness	140.00 SY	47.00	6,580.00
25	522-8000	RAMP, ADA, 6" Min. Thickness	4.00 SY	125.00	500.00
26	524-4004	DITCH PAVEMENT, Concrete, 4" Thick	294.00 SY	76.44	22,473.36
27	575-0103	SODDING, Bahia	1,728.10 SY	3.25	5,616.33
28	575-0112	SODDING, St. Augustine	173.00 SY	8.00	1,384.00
29	630-2-11	CONDUIT, OPEN TRENCH, UNDERGROUND F & I (2")	491.00 LF	16.35	8,027.85
30	630-2-12	CONDUIT, F & I, DIRECTIONAL BORE <6"	1,168.00 LF	34.45	40,237.60
31	632-7-1	SIGNAL CABLE, F & I	1.00 PI	6,773.00	6,773.00
32	635-2-11	PULL & SPLICE BOX, F & I, 13" X 24" COVER SIZE	16.00 EA	635.00	10,160.00

Approved
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Brian Bennett
2/8/2018



ENGINEER'S ESTIMATE OF PROBABLE COST

33	639-1-122	ELECTRICAL POWER SERVICE, F & I, UNDERGROUND, METER PURCHASED BY CONTRACTOR	1.00 AS	2,251.00	2,251.00
34	639-2-1	SIGNALS, ELECTRICAL SERVICE WIRE	84.00 LF	4.45	373.80
35	646-1-11	SIGNAL HEAD AUXILIARIES, F & I, ALUMINUM PEDESTAL Aluminum Signal Pole, Pedestal	5.00 EA	825.00	4,125.00
36	646-1-60	Aluminium Signals, Poles, Remove	6.00 EA	110.18	661.08
39	649-31-217	MAST ARM, F & I, DBL ARM W/O LUM, 60'-60', WINDSPEED 130	1.00 EA	51,821.00	51,821.00
42	650-1-23	TRAFFIC SIGNAL, F & I, Polycarbonate with Aluminum Top Section 3 Section, 1 way	13.00 AS	829.95	10,789.35
43	650-1-24	TRAFFIC SIGNAL, F & I, Polycarbonate with Aluminum Top Section 4 Section, 1 way	8.00 AS	1,183.71	9,469.68
44	653-1-11	PEDESTRIAN SIGNAL, F & I, LED, COUNT DOWN, 1 DIRECTION	6.00 AS	662.00	3,972.00
45	660-4-31	VEHICLE DETECTION SYSTEM-VIDEO INSTALL, CABINET EQUIPMENT	1.00 EA	3,092.50	3,092.50
46	660-4-32	VEHICLE DETECTION SYSTEM-VIDEO INSTALL, ABOVE GROUND EQUIPMENT	4.00 EA	5,477.19	21,908.76
47	665-1-11	PEDESTRIAN DETECTOR, F & I, Standard	6.00 EA	139.00	834.00

Approved
2017-C-799-013
Brian Bennett
2/8/2018



ENGINEER'S ESTIMATE OF PROBABLE COST

48	670-5-142	Traffic Controller Assembly, F & I, Model 2070, 1 Preemption	1.00 AS	25,069.00	25,069.00
49	670-5-600	Traffic Controller Assembly, Remove Controller with Cabinet	1.00 AS	463.00	463.00
50	700-20-11	SIGN, SINGLE POST-LESS THAN 12 SF	20.00 AS	329.93	6,598.60
51	700-20-40	SIGN, SINGLE POST, RELOCATE	3.00 AS	173.61	520.83
52	700-20-60	SIGN, SINGLE POST, REMOVE	24.00 AS	17.78	426.72
53	700-5-22	INTERNAL ILLUMINATED SIGN, F & I, 12-18 SF	8.00 EA	3,354.02	26,832.16
54	710-90	PAVEMENT MARKING, PAINTED, FINAL SURFACE	1.00 LS	776.82	776.82
55	711-11-121	THERMOPLASTIC, STANDARD, WHITE, SOLID, 6"	0.79 GM	3,831.59	3,026.96
56	711-11-123	THERMOPLASTIC, STANDARD, WHITE, SOLID, 12"	332.00 LF	6.52	2,164.64
57	711-11-125	THERMOPLASTIC, STANDARD, WHITE, SOLID, 24"	202.00 LF	3.76	759.52
58	711-11-141	THERMOPLASTIC, STANDARD, WHITE, SKIP, 6"	0.70 GM	1,810.97	1,267.68

Approved
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2/8/2018



ENGINEER'S ESTIMATE OF PROBABLE COST

59	711-11-160	THERMOPLASTIC, STANDARD, WHITE, MESSAGE	4.00 EA	113.47	453.88
60	711-11-170	THERMOPLASTIC, STANDARD, WHITE, ARROW	9.00 EA	42.20	379.80
61	711-11-211	THERMOPLASTIC, STANDARD, YELLOW, SOLID 6"	0.89 GM	3,788.20	3,371.50
62	711-11-224	THERMOPLASTIC, STANDARD, YELLOW, SOLID, 18"	313.00 LF	2.97	929.61
64	800-9003	TREE BARRICADES	400.00 LF	9.00	3,600.00
65	999-0000	UNSPECIFIED WORK (Allowance)	135,200.00 EA	1.00	135,200.00
66	711-14-160	THERMOPLASTIC, STANDARD, WHITE, MESSAGE, "BIKE LANE SYMBOL"	4.00 EA	206.41	825.64
67	711-14-170	THERMOPLASTIC, STANDARD, WHITE, DIRECTIONAL ARROWS, "BIKE LANE ARROW"	4.00 EA	98.33	393.32
68	711-14-125	THERMOPLASTIC, PERFORMED, WHITE, SOLID, 24" FOR SPECIAL EMPHASIS CROSSWALK	359.00 LF	14.15	5,079.85
69	102-1099	SIGN, VARIABLE MESSAGE (3 Lines) (Temporary)	120.00 EA/DAY	30.00	3,600.00
70	102-1311	BARRIER WALL, CONCRETE, LOW PROFILE, Relocate (Temporary), Per Public Works Std. Tech. Spec. 102-1000	800.00 LF	10.00	8,000.00

Approved
2017-C-799-013
Brian Bennett
2/8/2018



ENGINEER'S ESTIMATE OF PROBABLE COST

71	104-1	PREVENTION, CONTROL AND ABATEMENT OF EROSION & WATER POLLUTION	1.00	LS	5,000.00	5,000.00
72	102-1310	BARRIER WALL, CONCRETE, LOW PROFILE, (Temporary), Per Public Works Std. Tech. Spec. 102-1000	800.00	LF	20.00	16,000.00
73	102-1100	OFF DUTY LAW ENFORCEMENT OFFICER	40.00	HR	56.00	2,240.00
74	120-1100	GRADING	1.00	LS	83,000.00	83,000.00
79	663-1-111	SIGNAL PRIORITY AND PREEMPTION SYSTEM, F&I, OPTICAL, CABINET ELECTRONICS.	1.00	EA	4,080.00	4,080.00
80	663-1-112	SIGNAL PRIORITY AND PREEMPTION SYSTEM, F&I, OPTICAL DETECTOR	4.00	EA	2,465.92	9,863.68
81	425-5	MANHOLE, ADJUST	1.00	EA	314.00	314.00
82	527-02	DETECTABLE WARNINGS	199.00	SF	26.51	5,275.49
83	690-33-2	POLE REMOVAL, Deep, Bolt on Attachment	1.00	EA	4,913.22	4,913.22
84	690-32-1	POLE REMOVAL, Shallow, Direct Burial	1.00	AS	250.00	250.00
85	649-31-204	MAST ARM, F & I, SGL ARM W/O LUM, 70.5', WINDSPEED 130	1.00	EA	56,426.83	56,426.83

Approved
2017-C-799-013
Brian Bennett
2/8/2018



ENGINEER'S ESTIMATE OF PROBABLE COST

86	649-31-202	MAST ARM, F & I, SGL ARM W/O LUM, 46', WINDSPEED 130	1.00 EA	46,122.40	46,122.40
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ROADWAY / DRAINAGE	Sub Total (\$)	1,389,533.41
	Base Bid Total (\$)	1,389,533.40

Total (\$)	1,389,533.41
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Approved
2017-C-799-013
Brian Bennett
2/8/2018

SR 590 (NE COACHMAN ROAD) at CR 535 (OLD COACHMAN ROAD) INTERSECTION IMPROVEMENTS

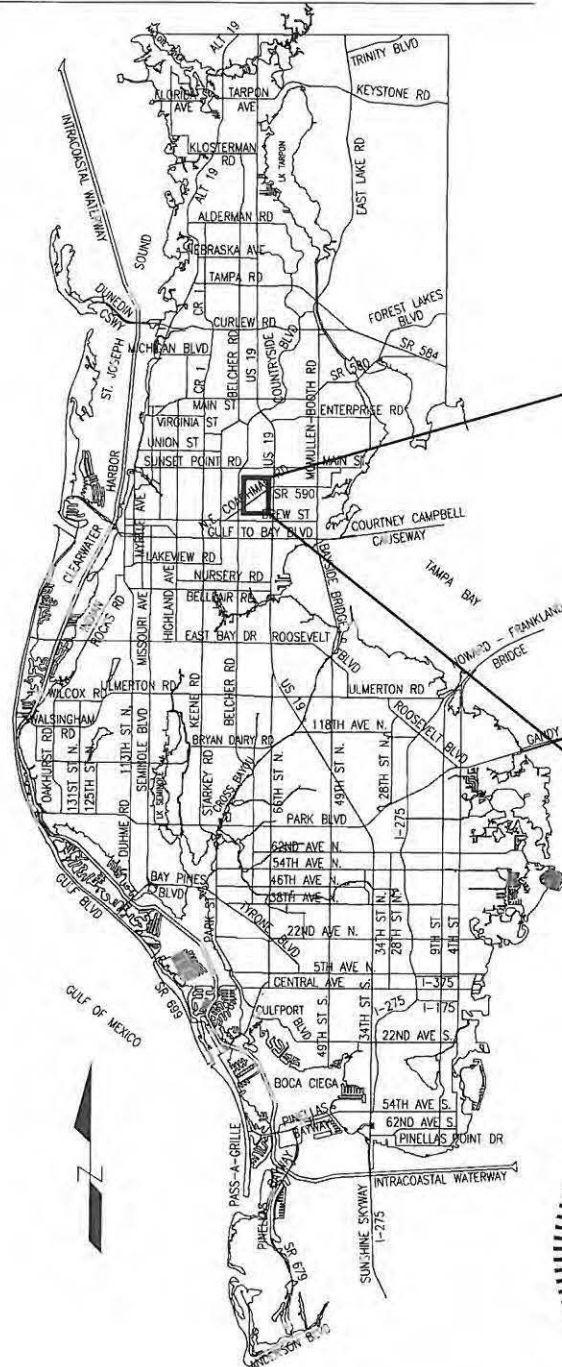
PINELLAS COUNTY, FL

PID NO. 001020A

FDOT PERMIT # 2017-C-799-003



PINELLAS COUNTY
LOCATION MAP

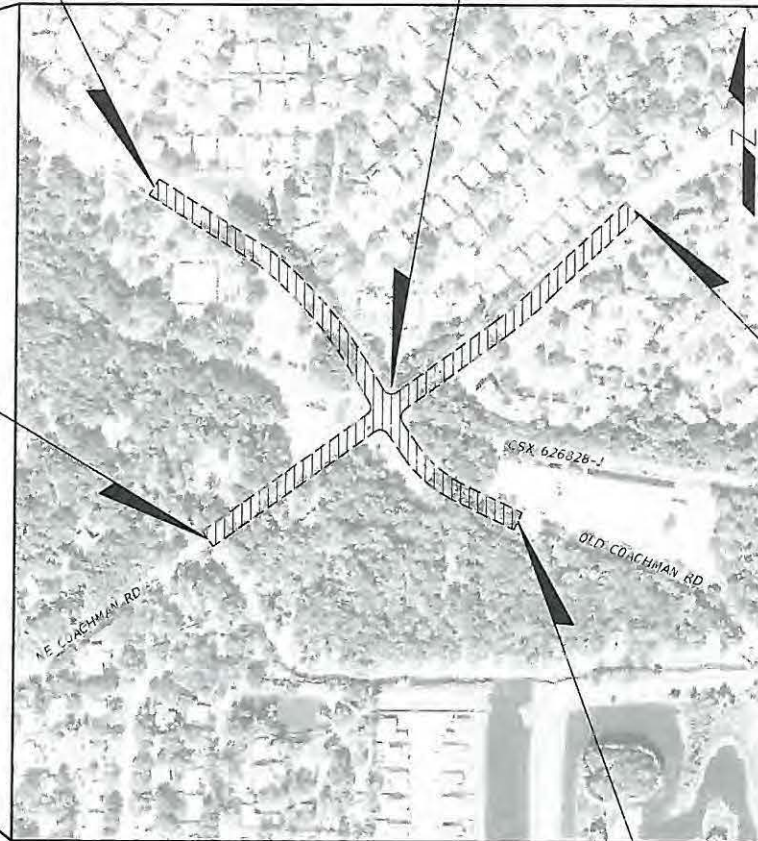


END CONSTRUCTION
STA. 3006+62.17

PROJECT LOCATION

BEGIN PROJECT
STA. 1154+01.86

END PROJECT
STA. 1165+63.24



SECTION 7, TOWNSHIP 29 SOUTH, RANGE 16 EAST

GOVERNING STANDARDS AND SPECIFICATIONS:

FLORIDA DEPARTMENT OF TRANSPORTATION,
DESIGN STANDARDS 2017,
AND STANDARD SPECIFICATIONS FOR ROAD
AND BRIDGE CONSTRUCTION 2017

PINELLAS COUNTY STANDARD SPECIFICATIONS
(AUGUST 2016)

FINAL PLANS
JANUARY 2018

BEGIN CONSTRUCTION
STA. 2036+18.68

KEY MAP
NOT TO SCALE



INDEX OF PLANS

SHEET NO.	SHEET TITLE
1	KEY SHEET
2	DRAINAGE MAP
3	GENERAL NOTES
SQ-1	TABULATION OF QUANTITIES
4-5	TYPICAL SECTIONS
6-10	ROADWAY PLAN
11-14	BACK OF SIDEWALK PROFILE
15	DRAINAGE STRUCTURE SECTIONS
16-34	CROSS SECTIONS
35-36	STORMWATER POLLUTION PREVENTION PLAN
37-39	EROSION CONTROL SHEET
40-41	MAINTENANCE OF TRAFFIC PLAN
42-46	UTILITY ADJUSTMENT
S1-S5	SIGNING & PAVEMENT MARKINGS PLAN
SG1-SG3	SIGNALIZATION PLAN
1-22	TOPOGRAPHIC SURVEY

PROJECT MANAGER: Erin Lawson, P.E.
(727)464-3176
PINELLAS COUNTY
14 SOUTH FORT HARRISON AVENUE
CLEARWATER, FLORIDA 33756
PHONE: (727)464-3588

PREPARED BY:
PINELLAS COUNTY
OFFICE OF ENGINEERING AND TECHNICAL SUPPORT

ATKINS

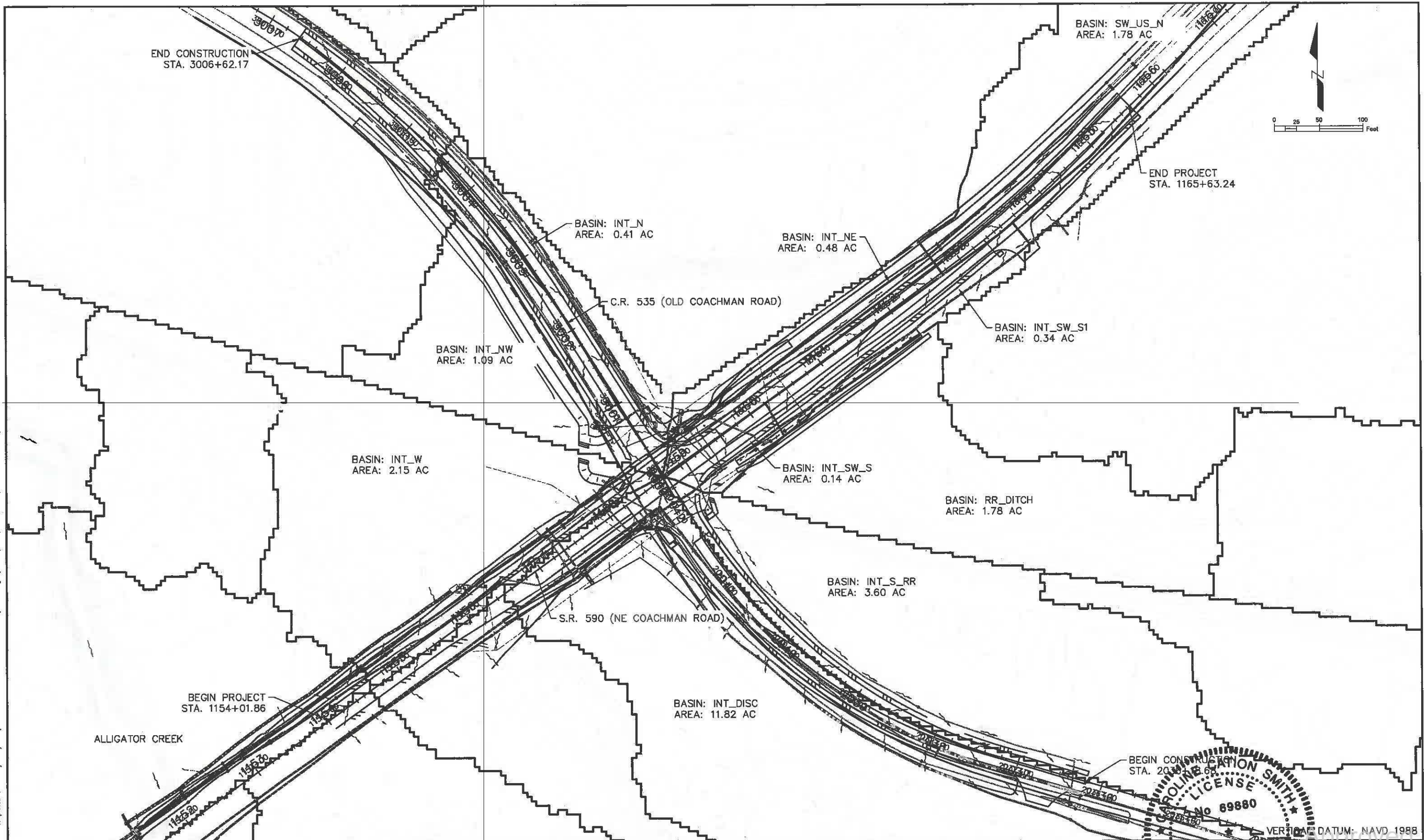
CORPORATE OFFICE:
4030 W. BOY SCOUT BOULEVARD
TAMPA, FLORIDA 33607
FBPR CERTIFICATE OF
AUTHORIZATION NO. 24
www.atkinsglobal.com
MARTINE FILS-AIME, P.E. No. 69769
ENGINEER OF RECORD

Approved
01/09/18
DATE

Brian Bennett
2/8/2018

NOTE: THE SCALE OF THESE PLANS MAY
HAVE CHANGED DUE TO REPRODUCTION

T:\Pinellas County Projects\001020A - SPO Coachman Road\2.0 Design\Plana\DWG\Production\001020A-DRM.dwg, Nov 15, 2017 - 12:00pm



REV. NO.	DATE	DESCRIPTION	REV. BY	CHECKED



PROJECT: SR 590 (NE COACHMAN RD)
at CR 535 (OLD COACHMAN RD)

DESCRIPTION: DRAINAGE MAP

APPROVED BY: *Caroline Smith*
CAROLINE SMITH
LICENSE No 69880
FLA. REG. NO 69880

DATE: 11/15/17
PROJECT NO. 001020A
SHEET: 2

2/8/2018

T:\Pinellas County Projects\001020A - SPO Coachman Road\2.0 Design\Plans\DWG\Production\001020A-GEN.dwg, Dec 20, 2017 - 2:01pm

1. REMOVE ONLY TREES DESIGNATED FOR REMOVAL IN THE PLAN, OR AS DIRECTED BY THE ENGINEER. OBTAIN THE HABITAT MANAGEMENT PERMIT FROM PINELLAS COUNTY TRANSPORTATION & STORMWATER - NATURAL RESOURCES. TREE REMOVAL IS INCLUDED IN THE UNIT PRICE BID FOR CLEARING AND GRUBBING, UNLESS SEPARATE PAY ITEMS ARE PROVIDED.
2. ALL MATERIALS NOT CLAIMED BY THE COUNTY MUST BECOME THE PROPERTY OF THE CONTRACTOR, AND MUST BE DISPOSED OF BY THE CONTRACTOR IN AREAS PROVIDED BY THE CONTRACTOR. THE COST FOR THIS WORK IS INCLUDED IN THE UNIT PRICE BID FOR CLEARING AND GRUBBING. MATERIALS TO BE CLAIMED BY AND DELIVERED TO THE COUNTY ARE AS FOLLOWS:
3. ALL STATIONS AND OFFSETS REFER TO CONSTRUCTION BASE LINE, UNLESS OTHERWISE NOTED.
4. ALL EXISTING PIPES THAT ARE TO REMAIN IN SERVICE WITHIN THE RIGHT-OF-WAY CORRIDOR ARE TO REMAIN IN PLACE UNLESS OTHERWISE NOTED IN THE PLANS.
5. STORM DRAIN INLET AND MANHOLE STATION LOCATIONS REFERENCE THE CENTER OF THE SPECIFIED STRUCTURE BOTTOM.
6. ALL DISTURBED AREAS, INCLUDING AREAS OUTSIDE THE CONSTRUCTION LIMITS, MUST BE RETURNED TO THEIR PRE-CONSTRUCTION CONDITION AT NO ADDITIONAL EXPENSE TO THE COUNTY. SEEDING MUST NOT BE USED AS FINAL GROUND COVER EXCEPT WHERE SPECIFICALLY SHOWN IN THE PLANS OR DIRECTED BY THE ENGINEER.
7. SHEETING, SHORING, AND BRACING MUST BE PROVIDED TO PROTECT ADJACENT STRUCTURES AND UTILITIES, OR TO MINIMIZE TRENCH WIDTH. THE COST OF ALL SHEETING, SHORING, AND BRACING REQUIRED IS INCLUDED IN THE UNIT PRICE BID FOR THE ITEM OF WORK FOR WHICH SHEETING, SHORING, AND BRACING IS REQUIRED, UNLESS OTHERWISE PROVIDED FOR SEPARATELY IN THE BID SUBMITTAL SHEETS.
8. THE ENGINEER MUST RECEIVE PERMISSION FROM THE PROPERTY OWNER THROUGH A RIGHT OF ENTRY AGREEMENT AND/OR A SIDEWALK, UTILITY, OR DRAINAGE EASEMENT PRIOR TO ANY GRADING OR CONSTRUCTION BEYOND THE RIGHT-OF-WAY.
9. ANY AND ALL EXISTING CONDITIONS MUST BE FIELD VERIFIED PRIOR TO COMMENCING CONSTRUCTION. THE ENGINEER MUST BE PROMPTLY NOTIFIED OF ANY DISCREPANCIES.
10. THE LOCATION(S) OF THE UTILITIES SHOWN IN THE PLANS ARE BASED ON LIMITED INVESTIGATION TECHNIQUES AND SHOULD BE CONSIDERED APPROXIMATE ONLY. THE VERIFIED LOCATIONS/ELEVATIONS APPLY ONLY AT THE POINTS SHOWN. INTERPOLATIONS BETWEEN THESE POINTS HAVE NOT BEEN VERIFIED.
11. SURFACING MUST NOT BE APPLIED TO ANY MANHOLE COVERS, FRAMES, VALVE BOXES, GAS DROPS, ETC.
12. SIDEWALK CURB RAMPS MUST BE PAID FOR AS DEFINED BY PINELLAS COUNTY SPECIFICATION 522 AND PINELLAS COUNTY STANDARD DETAIL 1360
13. ALL EXISTING SIGNS WITHIN THE PROJECT LIMITS MUST REMAIN UNLESS OTHERWISE NOTED IN THE PLANS, OR AS DIRECTED BY THE ENGINEER. PROPOSED SIGN LOCATIONS SHOWN ON PLANS ARE APPROXIMATE AND MAY REQUIRE FIELD ADJUSTMENT, AS DIRECTED BY THE ENGINEER.
14. BLUE, BI-DIRECTIONAL RPMS MUST BE INSTALLED ADJACENT TO ALL FIRE HYDRANTS, PLACED PER FDOT TRAFFIC ENGINEERING MANUAL, SECTION 4.3 - USE OF BLUE RAISED PAVEMENT MARKERS TO IDENTIFY FIRE HYDRANTS.
15. ABOVE GROUND AND/OR UNDERGROUND UTILITIES MAY BE IN THE AREA OF THIS PROJECT - PROCEED WITH CAUTION - CALL "SUNSHINE 811" IN ADVANCE OF BEGINNING WORK, IN ACCORDANCE WITH CHAPTER 556, FLORIDA STATUTES, UNDERGROUND FACILITY DAMAGE PREVENTION & SAFETY ACT. ALL UTILITY OWNERS MAY NOT BE A MEMBER, REQUIRING DIRECT CONTACT. FURTHER COORDINATION WITH UTILITY OWNERS MAY BE NECESSARY TO RESOLVE CONFLICTS THAT MAY ARISE IN THE FIELD DURING CONSTRUCTION. THE CONTRACTOR WILL BE RESPONSIBLE FOR ANY UTILITIES DAMAGED AS A RESULT OF FAILURE TO CALL "SUNSHINE 811" AND THE UTILITY OWNERS.
16. THE RESPONSIBLE UTILITY OWNER MUST BE NOTIFIED FOR RELOCATION OF METER BOXES FOR POTABLE AND NON-POTABLE WATER SERVICE.
17. ALL DISTURBED AREAS WITHIN FDOT RIGHT-OF-WAY, WILL BE SODDED AT NO ADDITIONAL EXPENSE TO THE COUNTY.

REV. NO.	DATE	DESCRIPTION	REV. BY	CHECKED



PROJECT: SR 590 (NE COACHMAN RD)
at CR 535 (OLD COACHMAN RD)

DESCRIPTION: GENERAL NOTES

APPROVED BY: *Martine Fils-Aime*
DATE: 12/20/17


MARTINE FILS-AIME, P.E.
FLA. REG. NO 69769

PROJECT NO. 001020A
SHEET: 3

Approved
2017-07-19-013
Brian Bennett
2/8/2018

T:\Pinellas County Projects\001020A - SFO Coachman Road\2.0 Design\Plans\DWG\Production\001020A-QTY.dwg, Jan 09, 2018 - 4:37pm

PAY ITEM NUMBER	DESCRIPTION	UNIT	SHEET NUMBERS															
			PLAN SHEETS		MOT		SIGNAL		PVM.T. MARKINGS		EROSION CONTROL							
			PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL						
101-1	MOBILIZATION	LS																
102-1	MAINTENANCE OF TRAFFIC	LS																
102-1099	SIGN, VARIABLE MESSAGE (3 Lines) (Temporary)	ED																
102-1100	OFF DUTY LAW ENFORCEMENT OFFICER	HR																
102-1310	BARRIER WALL, CONCRETE, LOW PROFILE, (Temporary), Per Public Works Std. Tech. Spec. 102-1000	LF																
102-1311	BARRIER WALL, CONCRETE, LOW PROFILE, Relocate (Temporary), Per Public Works Std. Tech. Spec. 102-1000	LF																
104-1	PREVENTION, CONTROL AND ABATEMENT OF EROSION & WATER POLLUTION	LS																
104-6	SEDIMENT BARRIER	LF																1
104-7	INLET PROTECTION SYSTEM	EA																3608
110-0100	CLEARING & GRUBBING	LS	1.00															2
120-0070	TOPSOIL, 6"	SY	4.00															
120-1100	GRADING	LS	1.00															
125-30-57	8" RINSED #57 STONE/GRAVEL	TN	7.30															
160-0009	TYPE B STABILIZATION	SY	3,403.00															
285-701	OPTIONAL BASE, BASE GROUP 1	SY	1,701.00															
285-710	OPTIONAL BASE, BASE GROUP 10	SY	1,725.00															
334-3125-090	SUPERPAVE ASPHALTIC CONC, TRAFFIC B	TN	1,664.00															
380-1100	MILLING EXIST ASPH PAVT, 1" AVG DEPTH	SY	719.00															
380-2300	MILLING EXIST ASPH PAVT, 3" AVG DEPTH	SY	6,433.00															
400-1-3	CONC CLASS NS, GRAVITY WALL	CY	16.42															
425-5	MANHOLE, ADJUST	EA	1.00															
425-560-0000	INLETS, CLOSED FLUME	EA	1.00															
430-121-0024	PIPE CULV, CONCRETE, ROUND, 24" CD	LF	119.00															
430-450-0024	MITERED END SECT, RCP, 24" RCP	EA	1.00															
514-10	PLASTIC FILTER FABRIC	SY	25.00															
515-8701	PIPE HANDRAIL - GUIDERAIL, ALUMINUM	LF	104.00															
520-1000-1000	CURB & GUTTER, Concrete, FDOT Type F	LF	132.00															
522-0004	SIDEWALK, CONCRETE, 4" Min. Thickness	SY	1,360.00															
522-0006	SIDEWALK, CONCRETE, 6" Min. Thickness	SY	140.00															
522-8000	CURB RAMPS	SY	4.00															
524-4004	CONCRETE DITCH PAVT, NR, 4"	SY	294.00															
527-02	DETECTABLE WARNINGS	SF	199.00															
575-0103	PERFORMANCE TURF, SOD	SY	1,728.10															
575-0112	SODDING, St. Augustine	SY	173.00															
630-2-11	CONDUIT, SIGNALS, F&I, OPEN TRENCH	LF																491
630-2-12	CONDUIT, F&I, DIRECTIONAL BORE	LF																1162
632-7-1	SIGNAL CABLE-NEW OR RECONSTRUCTED, F&I	PI																1
635-2-11	PULL & SPLICE BOX F&I, SIGNAL	EA																16
639-1-122	ELECTRICAL POWER SERVICE, F&I, UNDERGROUND, METER PURCHASE	AS																1
639-2-1	ELECTRICAL SERVICE WIRE	LF																84
646-1-11	ALUMINUM SIGNALS POLE, F&I, PEDESTAL	EA																5
646-1-60	ALUMINUM SIGNALS POLE, REMOVE	EA																8
649-31-202	MAST ARM, FURNISH AND INSTALL, SINGLE ARM W/O LUM, 46', WINDSPEED 130	EA																1
649-31-204	MAST ARM, FURNISH AND INSTALL, SINGLE ARM W/O LUM, 70.5', WINDSPEED 130	EA																1
649-31-217	MAST ARM, FURNISH AND INSTALL, DOUBLE ARM W/O LUM, 60'-60', WINDSPEED 130	EA																1
650-1-23	TRAFFIC SIGNAL, F&I POLYCARBONATE W/ ALUMINUM TOP SECTION, 3 SECTION, 1 WAY	AS																13
650-1-24	TRAFFIC SIGNAL, F&I POLYCARBONATE W/ ALUMINUM TOP SECTION, 4 SECTION, 1 WAY	AS																8
653-1-11	PEDESTRIAN SIGNAL, F&I, LED COUNTDOWN, 1 DIRECTION	AS																6
660-4-31	VEHICLE DETECTION SYSTEM-VIDEO, F&I, CABINET EQUIPMENT	EA																1
660-4-32	VEHICLE DETECTION SYSTEM-VIDEO, F&I, ABOVE GROUND EQUIPMENT	EA																4
663-1-111	SIGNAL PRIORITY AND PREEMPTION SYSTEM, F&I, OPTICAL, CABINET ELECTRONICS	EA																1
663-1-112	SIGNAL PRIORITY AND PREEMPTION SYSTEM, F&I, OPTICAL, DETECTOR	EA																4
665-1-11	PED DETECTOR, F&I, STANDARD	EA																6
670-5-142	TRAFFIC CONTROLLER ASSEMBLY, INSTALL	AS																1
670-5-600	CONTROLLER ASSEMBLY, REMOVE, COMPLETE ASSEMBLY	EA																1
690-32-1	POLE REMOVAL, SHALLOW, DIRECT BURIAL	EA																1
690-33-2	POLE RMOVAL, DEEP, BOLT ON ATTACHMENT	EA																1
700-20-11	SINGLE- POST SIGN, F&I GROUND MOUNT, UP TO 12 SF	AS																1
700-20-40	SINGLE- POST SIGN, RELOCATE	AS																20
700-20-80	SINGLE- POST SIGN, REMOVE	AS																3
700-5-22	INTERNALLY ILLUMINATED SIGN, F&I, OVERHEAD MOUNT, 12-18 SF	EA																24
710-90	PAINTED PAVEMENT MARKINGS - FINAL SURFACE	EA																8
711-11-121	THERMOPLASTIC, STANDARD -OTHER SURFACES, WHITE, SOLID, 6"	GM																242
711-11-123	THERMOPLASTIC, PREFORMED, WHITE, SOLID, 12" FOR CROSSWALK	LF																0.79
711-11-125	THERMOPLASTIC, STANDARD, WHITE, SOLID, 24" FOR STOPLINE AND RR CROSSING TRANSVERSE LINE	LF																332
711-11-141	THERMOPLASTIC, STANDARD, WHITE, 2-4 DOTTED/GUIDELINE/6-10 GAP EXTENSION, 6"	GM																202
711-11-160	THERMOPLASTIC, STANDARD, WHITE, MESSAGE OR SYMBOL	EA																0.7
711-11-170	THERMOPLASTIC, STANDARD, WHITE, ARROW	EA																4
711-11-211	THERMOPLASTIC, STANDARD -OTHER SURFACES, YELLOW, SOLID, 6"	GM																9
711-11-224	THERMOPLASTIC, STANDARD, YELLOW, SOLID, 18" FOR DIAGONAL OR CHEVRON	LF																0.89
711-14-125	THERMOPLASTIC, PREFORMED, WHITE, SOLID, 24" FOR SPECIAL EMPHASIS CROSSWALK	LF																313
711-14-160	THERMOPLASTIC, PREFORMED, WHITE, MESSAGE OR SYMBOL	EA																359
711-14-170	THERMOPLASTIC, PREFORMED, WHITE, ARROW	EA																4
800-9003	TREE BARRICADES	LF																4

DESIGNED _____			
DRAWN _____			
CHECKED _____			
REV. NO.	DATE	DESCRIPTION	REV. BY

PROJECT: SR 590 (NE COACHMAN RD)
at CR 535 (OLD COACHMAN RD)

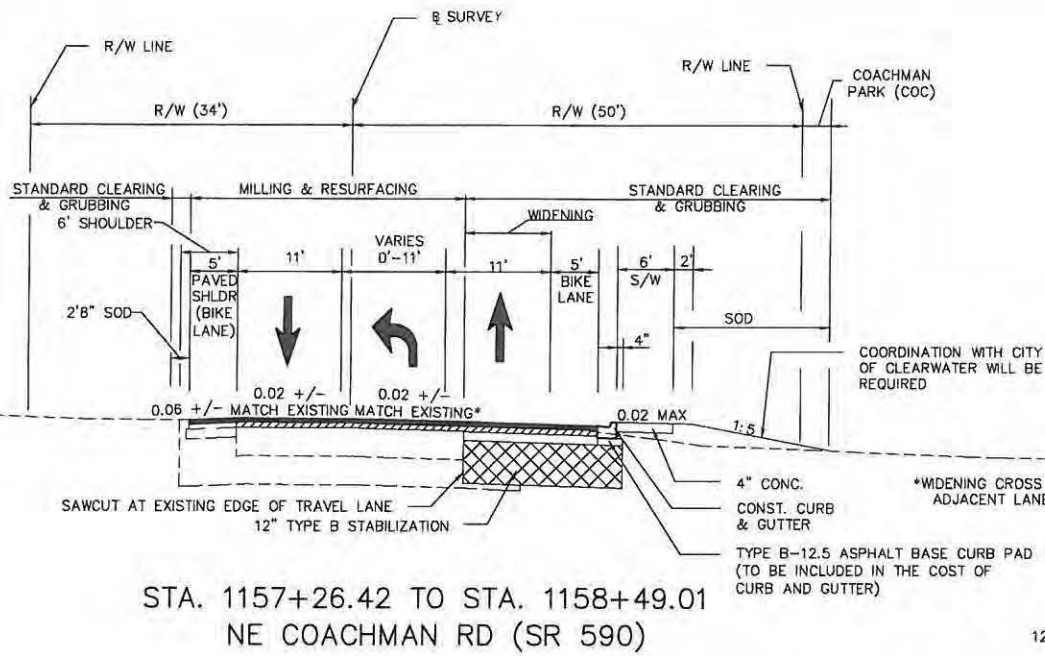
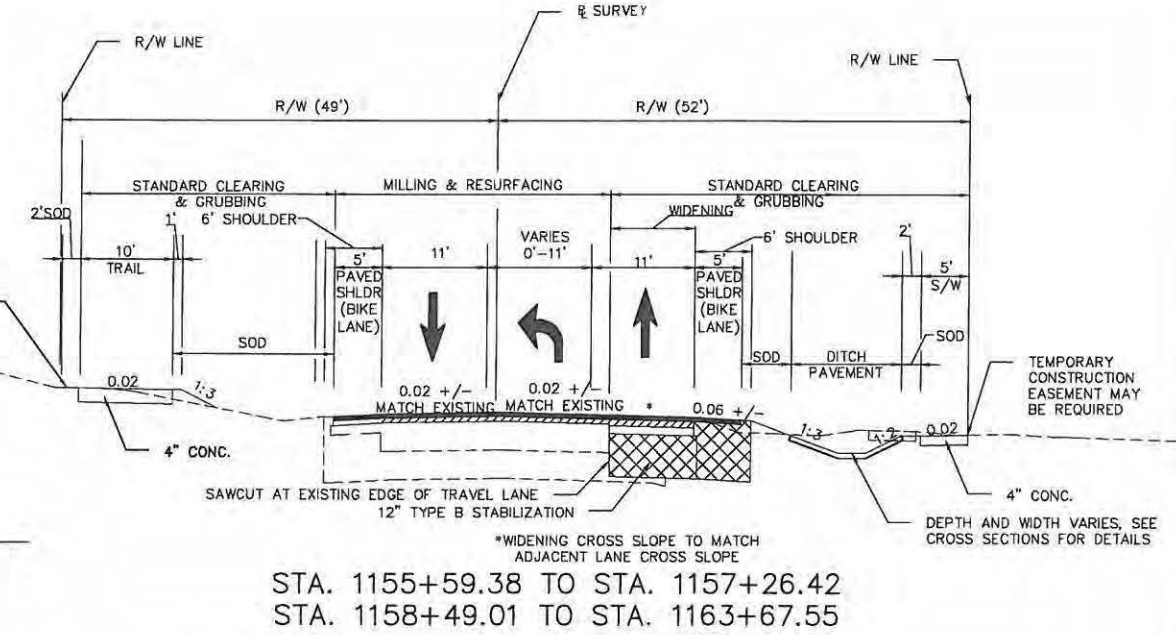
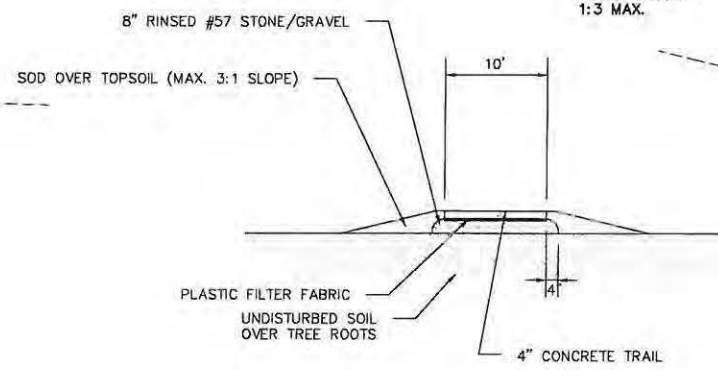
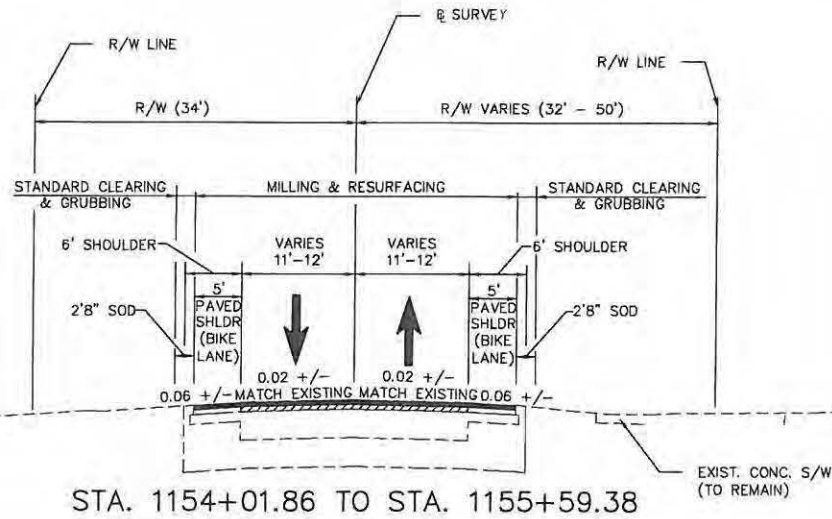
DESCRIPTION: TABULATION OF QUANTITIES

APPROVED BY:  MARTINE FILS-AIME, P.E.
FLA. REG. NO 69769

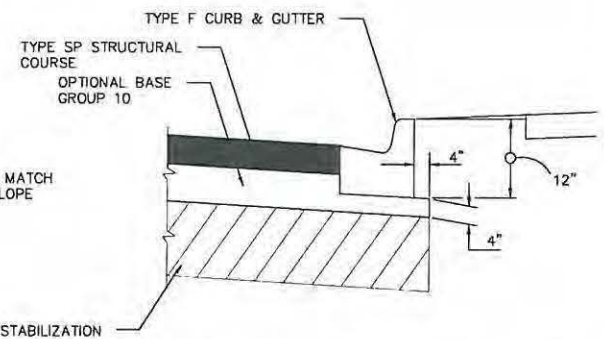
DATE: 01/09/18
PROJECT NO.: 2017-C-709-013
SHEET: SQ-1

Brian Bennett
2/8/2018

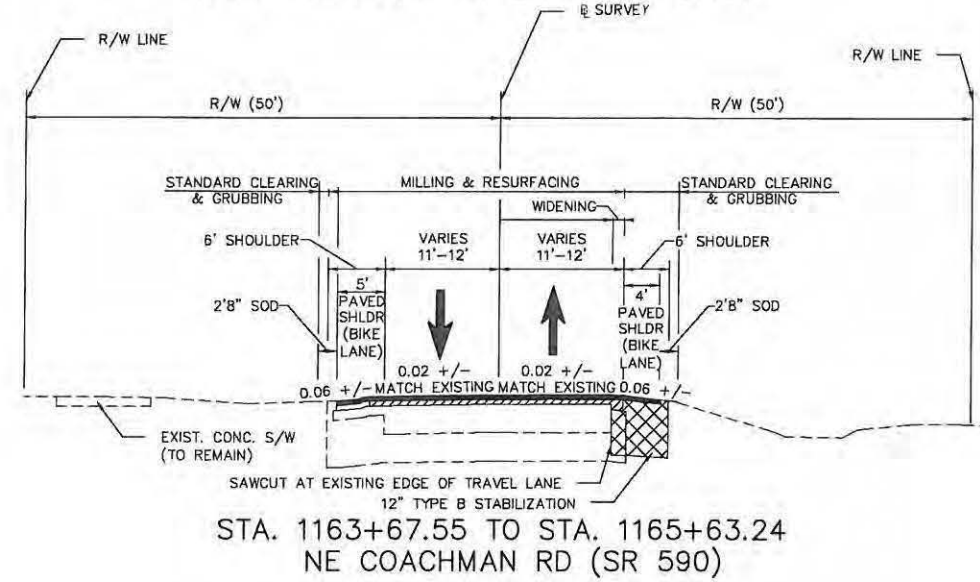
T:\Pinellas County\Projects\001020A - SPO Coachman Road\2.0 Design\Plans\DWG\Production\001020A-TYP.dwg, Dec 20, 2017 - 2:03pm



SIDEWALK CONSTRUCTION WITH TREE PROTECTION
STA. 1159+50.53 TO STA. 1159+70.53 LT



DETAIL OF ASPHALT BASE CURB PAD



PAVEMENT WIDENING

- OPTIONAL BASE GROUP 10 (TYPE B-12.5 ONLY)
- TYPE SP STRUCTURAL COURSE (TRAFFIC B)(5")
- 12" TYPE B STABILIZATION

SHOULDER PAVEMENT

- 12" TYPE B STABILIZATION
- OPTIONAL BASE GROUP 1 (TYPE B-12.5 OR CRUSHED CONCRETE)
- TYPE SP STRUCTURAL COURSE (TRAFFIC B)(1")

MAINLINE MILLING AND RESURFACING

- MILL EXISTING ASPHALT PAVEMENT FOR DEPTH (3")
- TYPE SP STRUCTURAL COURSE (TRAFFIC B)(3")

SHOULDER MILLING AND RESURFACING

- MILL EXISTING ASPHALT PAVEMENT FOR DEPTH (1")
- TYPE SP STRUCTURAL COURSE (TRAFFIC B)(1")



DESIGNED	
DRAWN	
CHECKED	
REV. NO.	DATE DESCRIPTION REV. BY



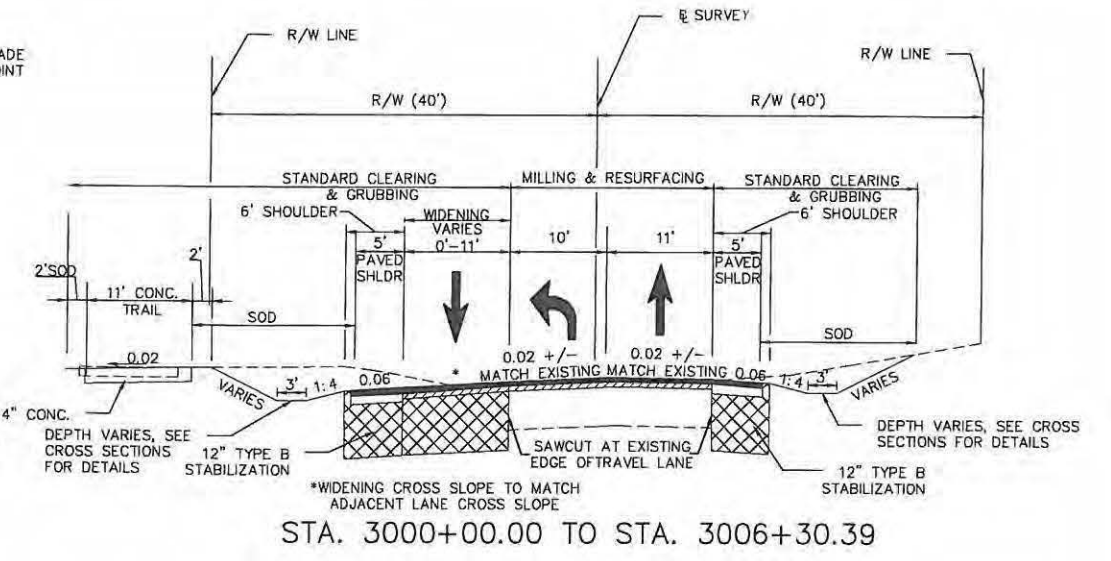
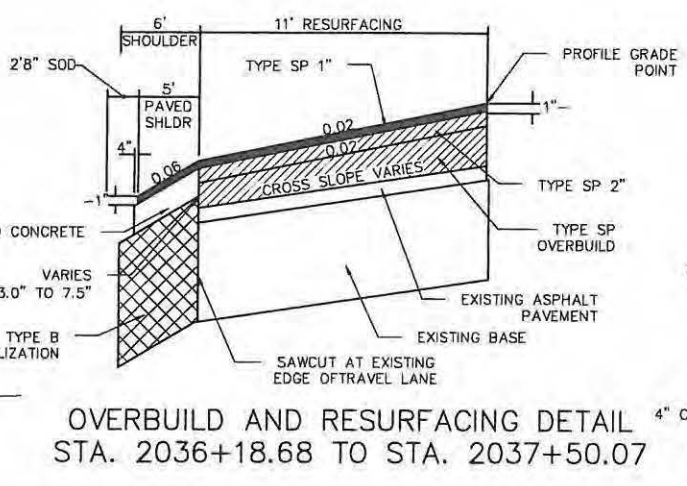
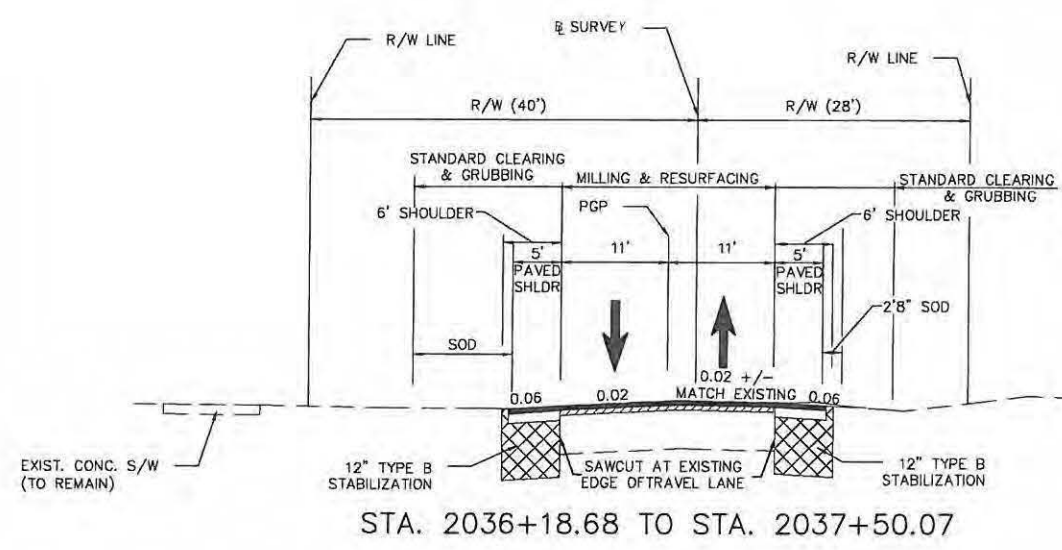
PROJECT: SR 590 (NE COACHMAN RD) at CR 535 (OLD COACHMAN RD)

DESCRIPTION: TYPICAL SECTIONS

APPROVED BY: MARTINE FILS-AIME, P.E. FLA. REG. NO 69769
DATE: 12/20/17
PROJECT NO. 001020A
SHEET: 4

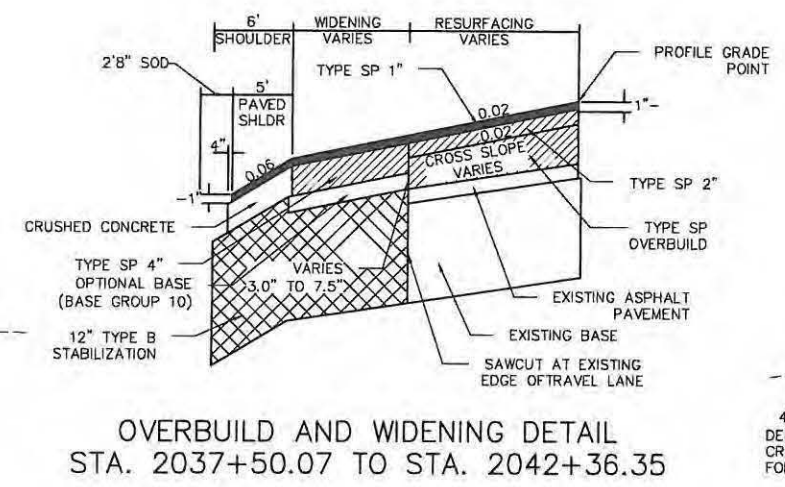
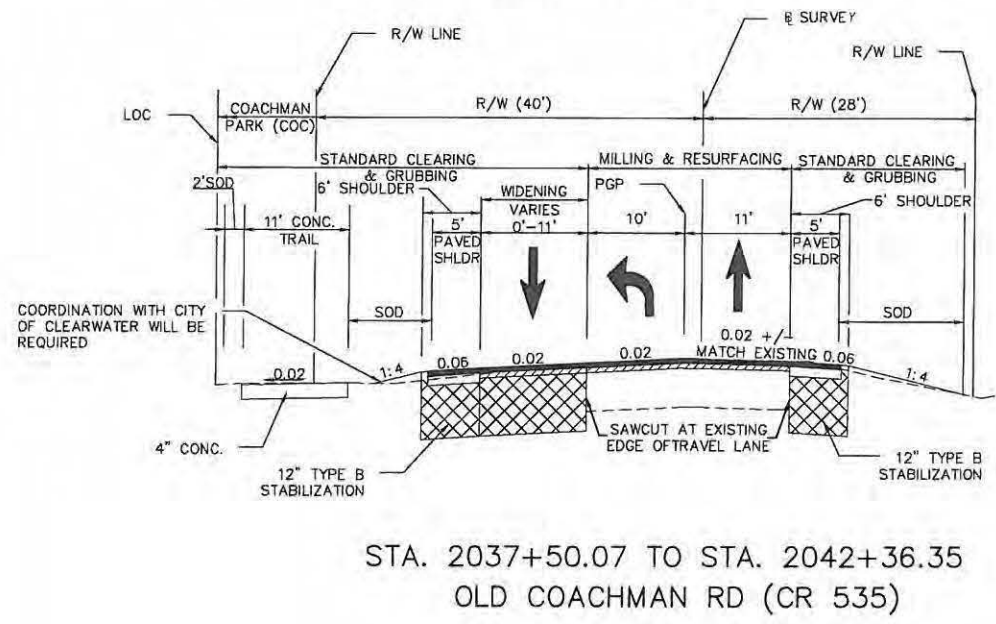
Approved
2017
Brian Bennett
2/8/2018

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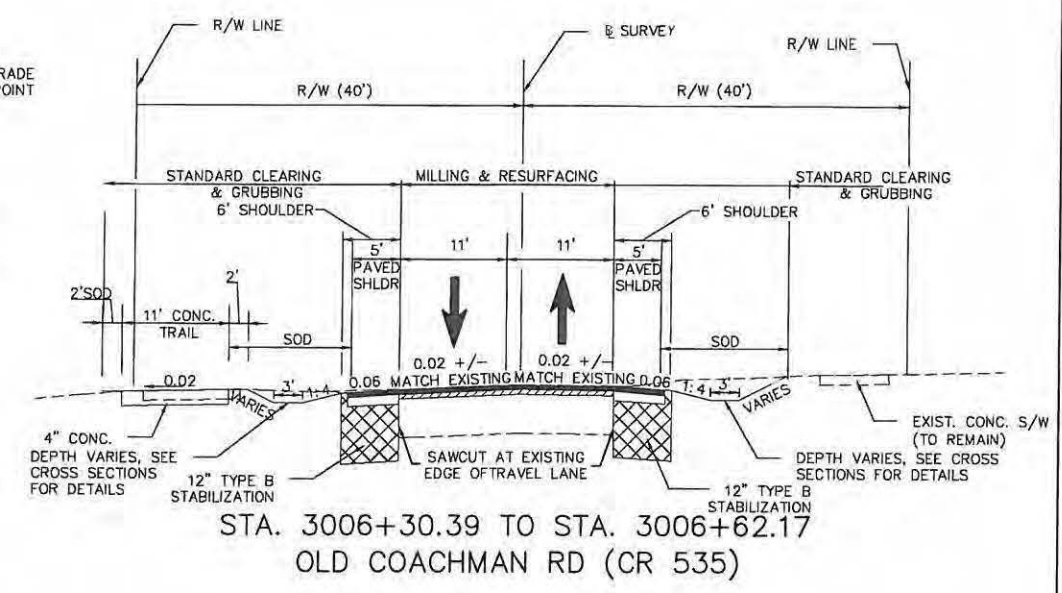


OVERBUILD AND RESURFACING DETAIL
STA. 2036+18.68 TO STA. 2037+50.07

STA. 3006+00.00 TO STA. 3006+30.39



OVERBUILD AND WIDENING DETAIL
STA. 2037+50.07 TO STA. 2042+36.35



STA. 3006+30.39 TO STA. 3006+62.17
OLD COACHMAN RD (CR 535)

PAVEMENT WIDENING

- OPTIONAL BASE GROUP 10 (TYPE B-12.5 ONLY)
- TYPE SP STRUCTURAL COURSE (TRAFFIC B)(5")
- 12" TYPE B STABILIZATION

SHOULDER PAVEMENT

- 12" TYPE B STABILIZATION
- OPTIONAL BASE GROUP 1 (TYPE B-12.5 OR CRUSHED CONCRETE)
- TYPE SP STRUCTURAL COURSE (TRAFFIC B)(1")

MAINLINE MILLING AND RESURFACING

- MILL EXISTING ASPHALT PAVEMENT FOR DEPTH (3")
- TYPE SP STRUCTURAL COURSE (TRAFFIC B)(3")

SHOULDER MILLING AND RESURFACING

- MILL EXISTING ASPHALT PAVEMENT FOR DEPTH (1")
- TYPE SP STRUCTURAL COURSE (TRAFFIC B)(1")



DESIGNED	_____		
DRAWN	_____		
CHECKED	_____		
REV. NO.	DATE	DESCRIPTION	REV. BY



PROJECT: SR 590 (NE COACHMAN RD)
at CR 535 (OLD COACHMAN RD)

DESCRIPTION: TYPICAL SECTIONS

APPROVED BY: _____
DATE: 12/20/17
PROJECT NO. 001020A
SHEET 5

MARTINE FILS-AIME, P.E.
FLA. REG. NO 69769

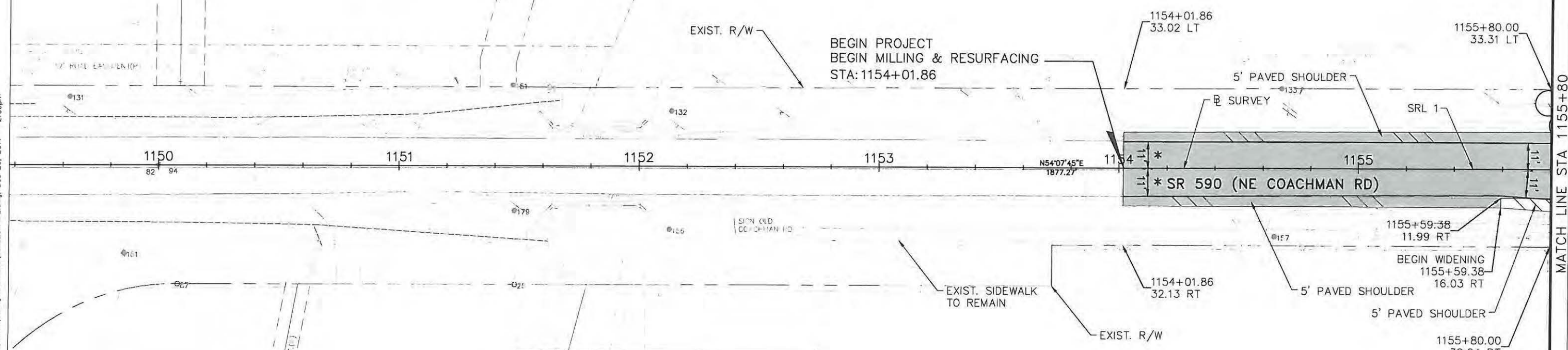
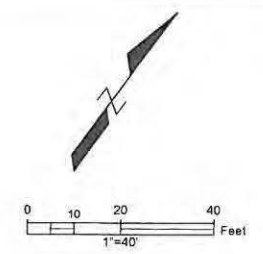
2017 © 199-013
Brian Bennett
2/8/2018

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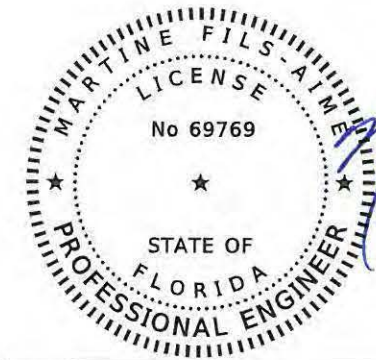
FOR ALIGNMENT, SUE, AND ROW INFORMATION
CONTRACTOR TO USE TOPOGRAPHIC SURVEY OF:
OLD COACHMAN ROAD AND N.E. COACHMAN
ROAD SURVEY FILE NO.: F1957-C3D-2014.DWG

ALIGNMENT: SRL1 DESCRIPTION: SR 590 (COACHMAN BLVD)					
	PI STA	NORTHING	EASTING	BRG AHD	DISTANCE AHD
POINT NUMBER 296	1140+00.00	1324157.4937	416447.9368	N 54°07'45" E	1877.27'
POINT NUMBER 245	1158+77.27	1325257.4983	417969.1687	N 53°48'11" E	389.94'
	1162+67.21	1325487.7817	418283.8451	N 49°43'43" E	236.55'
CURVE DATA					
	DELTA	08°08'54"	TYPE	LEFT	
	RADIUS	1663.33	DOC	03°26'41"	
	LENGTH	236.55	TANGENT	118.48	
	MID-ORD	4.20	EXTERNAL	4.21	
	CHORD	236.36	COURSE	N 49°43'43" E	
	PI STA	NORTHING	EASTING	BRG AHD	DISTANCE AHD
POINT NUMBER 11	1165+03.77	1325640.564	418464.1824	N 45°39'16" E	116.08'
POINT NUMBER 12	1166+19.84	1325721.698	418547.1921	N 52°02'57" E	721.39'

ALIGNMENT: SRL2 DESCRIPTION: OLD COACHMAN RD (S)					
	PI STA	NORTHING	EASTING	BRG AHD	DISTANCE AHD
POINT NUMBER 276	2033+02.47	1325640.5635	418464.1824	N 73°43'57" W	419.66'
POINT NUMBER 277	2037+22.13	1324934.7100	418351.959	N 52°40'56" W	438.67'
CURVE DATA					
	DELTA	42°06'02"	TYPE	RIGHT	
	RADIUS	597	DOC	09°35'50"	
	LENGTH	438.67	TANGENT	229.77	
	MID-ORD	39.84	EXTERNAL	42.69	
	CHORD	428.87	COURSE	N 52°40'56" W	
	PI STA	NORTHING	EASTING	BRG AHD	DISTANCE AHD
POINT NUMBER 295	2041+60.80	1325194.706	418010.8855	N 31°37'55" W	116.08'
POINT NUMBER 244	2042+36.35	1325259.031	417971.2630	N 52°02'57" E	721.39'



ALIGNMENT: SRL3 DESCRIPTION: OLD COACHMAN RD (N)					
	PI STA	NORTHING	EASTING	BRG AHD	DISTANCE AHD
POINT NUMBER 246	3000+00.00	1325257.6076	417969.3181	N 32°10'06" W	283.01'
	3002+83.01	1325497.1726	417878.6411	N 40°52'13" W	219.93'
CURVE DATA					
	DELTA	17°22'15"	TYPE	LEFT	
	RADIUS	725.41	DOC	07°53'54"	
	LENGTH	219.93	TANGENT	110.82	
	MID-ORD	8.32	EXTERNAL	8.42	
	CHORD	219.09	COURSE	N 40°52'13" W	
	PI STA	NORTHING	EASTING	BRG AHD	DISTANCE AHD
POINT NUMBER 287	3005+02.94	1325662.846	417675.2810	N 49°28'15" W	104.51'
POINT NUMBER 288	3006+07.45	1325730.76	417595.8456	N 54°16'24" W	94.34'
CURVE DATA					
	DELTA	09°34'49"	TYPE	LEFT	
	RADIUS	564.22	DOC	10°09'18"	
	LENGTH	94.34	TANGENT	47.28	
	MID-ORD	1.97	EXTERNAL	1.98	
	CHORD	94.23	COURSE	N 54°16'24" W	
	PI STA	NORTHING	EASTING	BRG AHD	DISTANCE AHD
POINT NUMBER 268	3007+01.79	1325730.76	417595.8456	N 59°06'04" W	474.63'



* MATCH EXISTING

LEGEND	
	MILLING & RESURFACING
	WIDENING

REV. NO.	DATE	DESCRIPTION	REV. BY



PROJECT: SR 590 (NE COACHMAN RD)
at CR 535 (OLD COACHMAN RD)

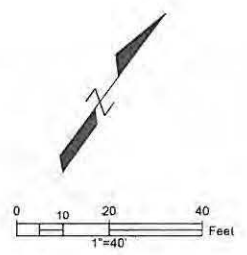
DESCRIPTION: ROADWAY PLAN

APPROVED BY:
DATE: 12/20/17
PROJECT NO.: 2017-0799-013
SHEET: 6
DATE: 2/8/2018

Approved
2017-0799-013
Bria Bennett
2/8/2018

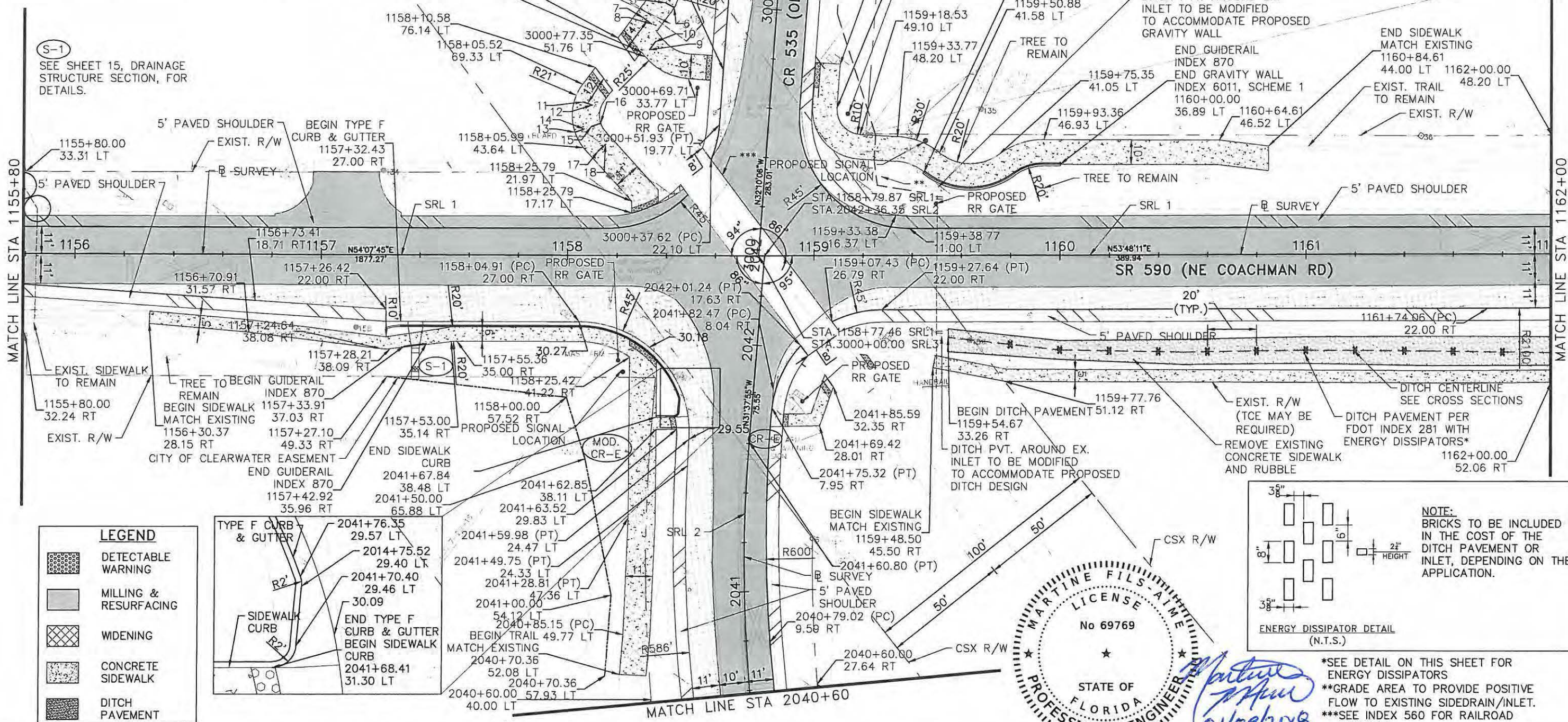
GUIDERAIL, INDEX 870					
#	STATION	OFFSET	#	STATION	OFFSET
1	3001+10.13	47.44	10	3000+83.73	48.14
2	3001+10.34	43.44	11	1158+05.70	62.15
3	3001+02.75	51.61	12	1158+09.51	60.93
4	3001+01.05	47.99	13	1158+02.55	49.83
5	3000+99.78	45.27	14	1158+06.31	51.20
6	3000+98.08	41.65	15	1158+09.13	52.22
7	3000+93.05	53.70	16	1158+12.89	53.58
8	3000+90.82	50.16	17	1158.11.98	42.28
9	3000+80.27	50.37	18	1158.14.93	44.98

FOR ALIGNMENT, SUE, AND ROW INFORMATION CONTRACTOR TO USE TOPOGRAPHIC SURVEY OF: OLD COACHMAN ROAD AND N.E. COACHMAN ROAD SURVEY FILE NO.: F1957-C3D-2014.DWG



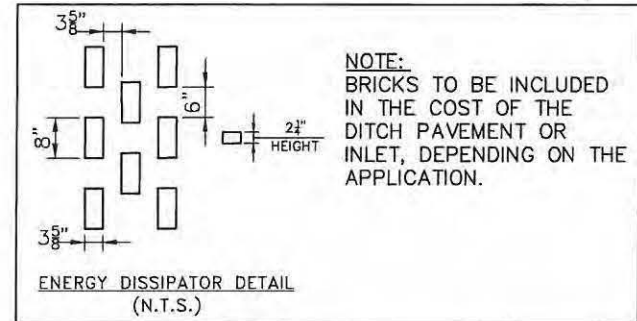
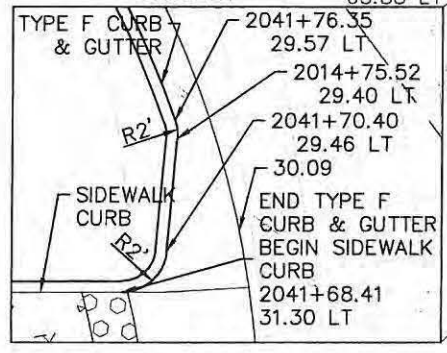
MATCH LINE STA 1155+80

MATCH LINE STA 1162+00



LEGEND

- DETECTABLE WARNING
- MILLING & RESURFACING
- WIDENING
- CONCRETE SIDEWALK
- DITCH PAVEMENT



REV. NO	DATE	DESCRIPTION	REV. BY	CHECKED

Pinellas County

PROJECT: SR 590 (NE COACHMAN RD)
at CR 535 (OLD COACHMAN RD)

DESCRIPTION: ROADWAY PLAN

APPROVED BY:

MARTINE FILS-AIME, P.E.
FLA. REG. NO 69769

DATE: 12/20/17

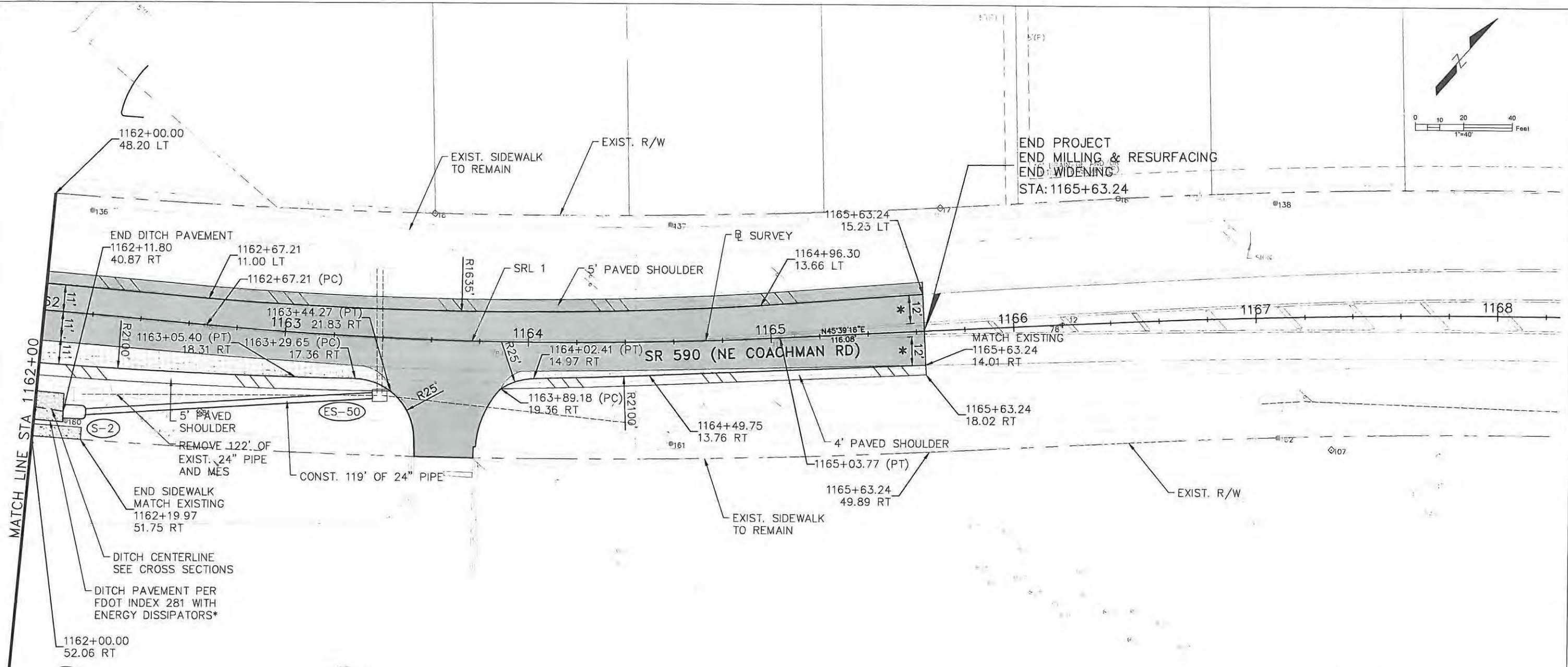
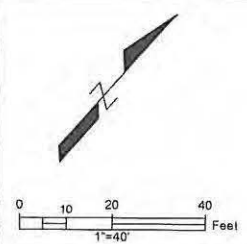
PROJECT NO: 001020A-013

SHEET: 7

2/8/2018

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END PROJECT
END MILLING & RESURFACING
END WIDENING
STA: 1165+63.24

MATCH LINE STA 1162+00

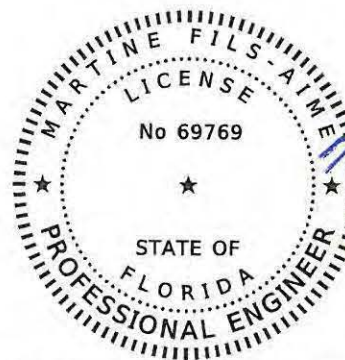
(S-2)
STA. 1162+18.75 (40.53' RT.)
CROSS DRAIN MES (1:4)
FDOT INDEX NO. 272
ELEV. 36.00 FL

(ES-50)
EXISTING JUNCTION BOX
CONNECT PROPOSED PIPE TO EXISTING
JUNCTION BOX AND MATCH EXISTING
FLOW LINE. MODIFICATION OF EXISTING
JUNCTION BOX IS TO BE INCLUDED
WITH COST OF PIPE.

FOR ALIGNMENT, SUE, AND ROW INFORMATION
CONTRACTOR TO USE TOPOGRAPHIC SURVEY OF:
OLD COACHMAN ROAD AND N.E. COACHMAN
ROAD SURVEY FILE NO.: F1957-C3D-2014.DWG

* MATCH EXISTING

LEGEND	
	MILLING & RESURFACING
	WIDENING
	CONCRETE SIDEWALK
	CONCRETE REMOVAL
	DITCH PAVEMENT



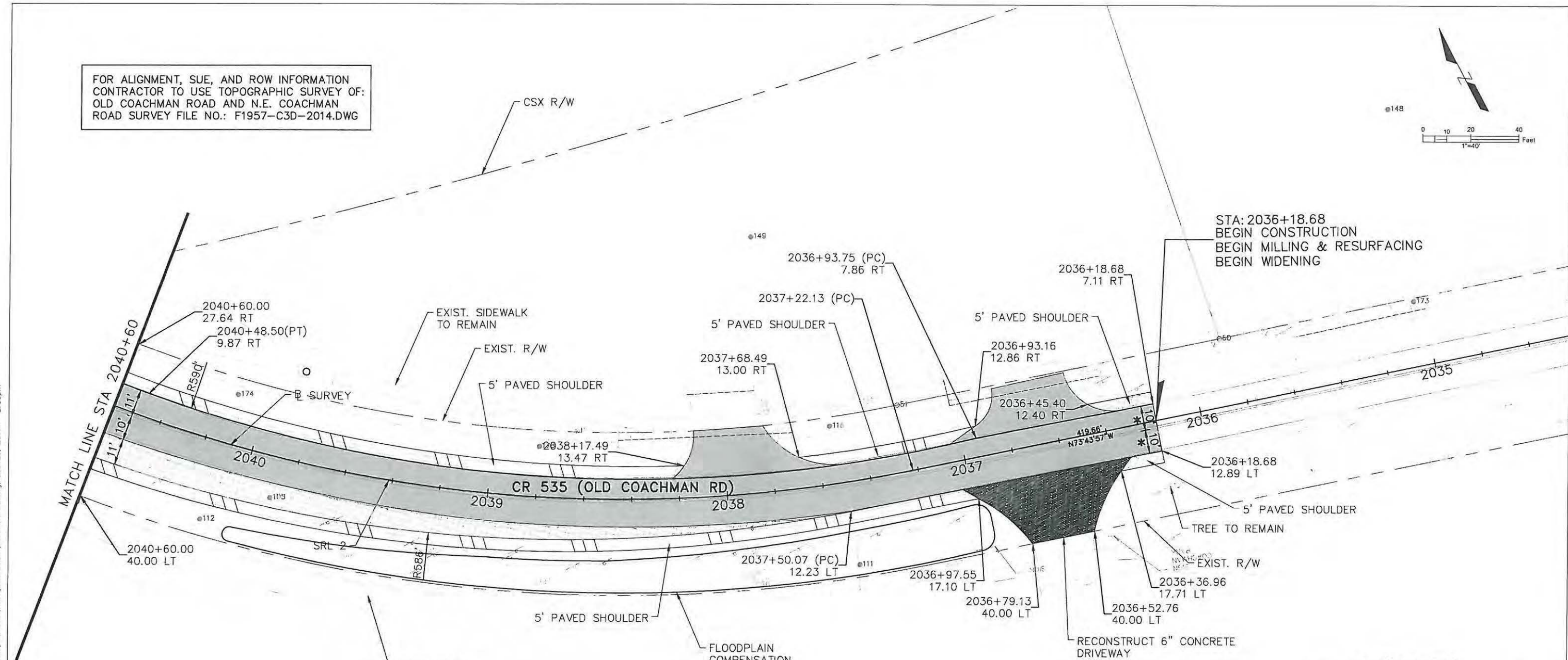
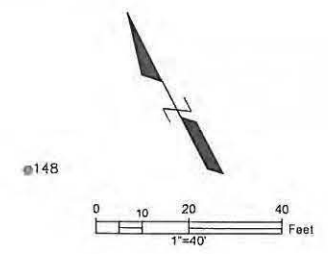
Martine Fils-Aime
01/09/2018

*SEE DETAIL ON SHEET 7.

DESIGNED	_____		PROJECT:	SR 590 (NE COACHMAN RD) at CR 535 (OLD COACHMAN RD)	DESCRIPTION:	ROADWAY PLAN	APPROVED BY:	_____	DATE:	12/20/17
DRAWN	_____								PROJECT NO.:	001020A
CHECKED	_____								DATE:	2/8/2018
REV. NO.	DATE	DESCRIPTION	REV. BY	CHECKED						

Approved
2017-01-09-013
Bria Bennett
2/8/2018

FOR ALIGNMENT, SUE, AND ROW INFORMATION
CONTRACTOR TO USE TOPOGRAPHIC SURVEY OF:
OLD COACHMAN ROAD AND N.E. COACHMAN
ROAD SURVEY FILE NO.: F1957-C3D-2014.DWG



* MATCH EXISTING

LEGEND	
	MILLING & RESURFACING
	WIDENING
	6" CONCRETE

MARTINE FILS-AIME
LICENSE
No 69769
STATE OF FLORIDA
PROFESSIONAL ENGINEER

Martine Fils-Aime
01/09/2018

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REV. NO.	DATE	DESCRIPTION	REV. BY	CHECKED



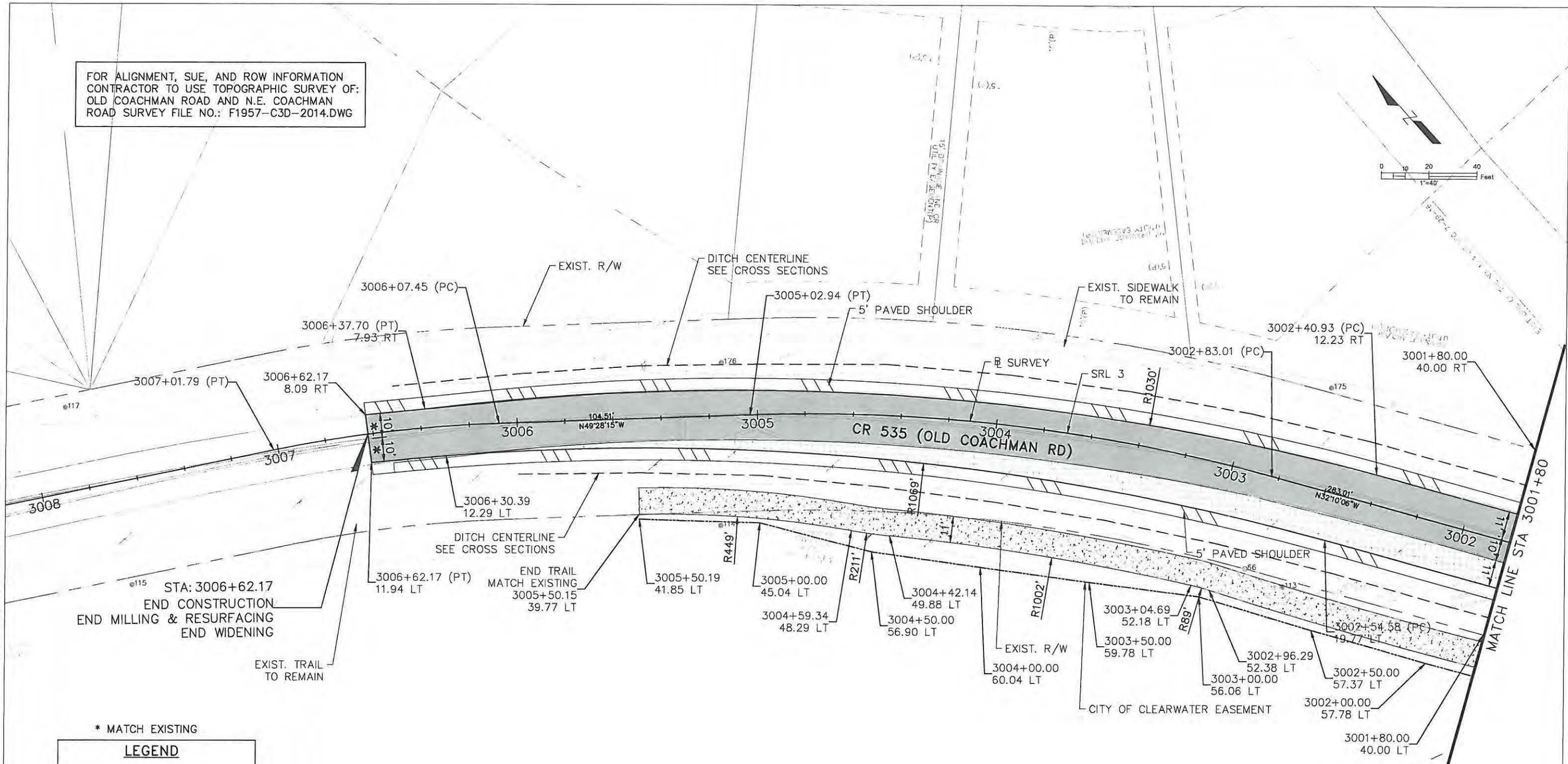
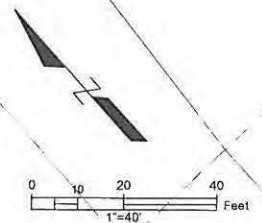
PROJECT: SR 590 (NE COACHMAN RD)
at CR 535 (OLD COACHMAN RD)

DESCRIPTION: ROADWAY PLAN

APPROVED BY: *Martine Fils-Aime*
DATE: 12/20/17
PROJECT NO.: 001020A
SHEET: 3

Approved
2017-07-19-013
Brian Bennett
2/8/2018

FOR ALIGNMENT, SUE, AND ROW INFORMATION
 CONTRACTOR TO USE TOPOGRAPHIC SURVEY OF:
 OLD COACHMAN ROAD AND N.E. COACHMAN
 ROAD SURVEY FILE NO.: F1957-C3D-2014.DWG



STA: 3006+62.17
 END CONSTRUCTION
 END MILLING & RESURFACING
 END WIDENING

EXIST. TRAIL
 TO REMAIN

* MATCH EXISTING

LEGEND

- MILLING & RESURFACING
- WIDENING
- CONCRETE SIDEWALK

CSX R/W

MARTINE FILS-AIME
 LICENSE
 No 69769
 STATE OF
 FLORIDA
 PROFESSIONAL ENGINEER

Martine Fils-Aime
 01/09/2018

REV. NO.	DATE	DESCRIPTION	REV. BY	CHECKED



PROJECT: SR 590 (NE COACHMAN RD)
 at CR 535 (OLD COACHMAN RD)

DESCRIPTION: ROADWAY PLAN

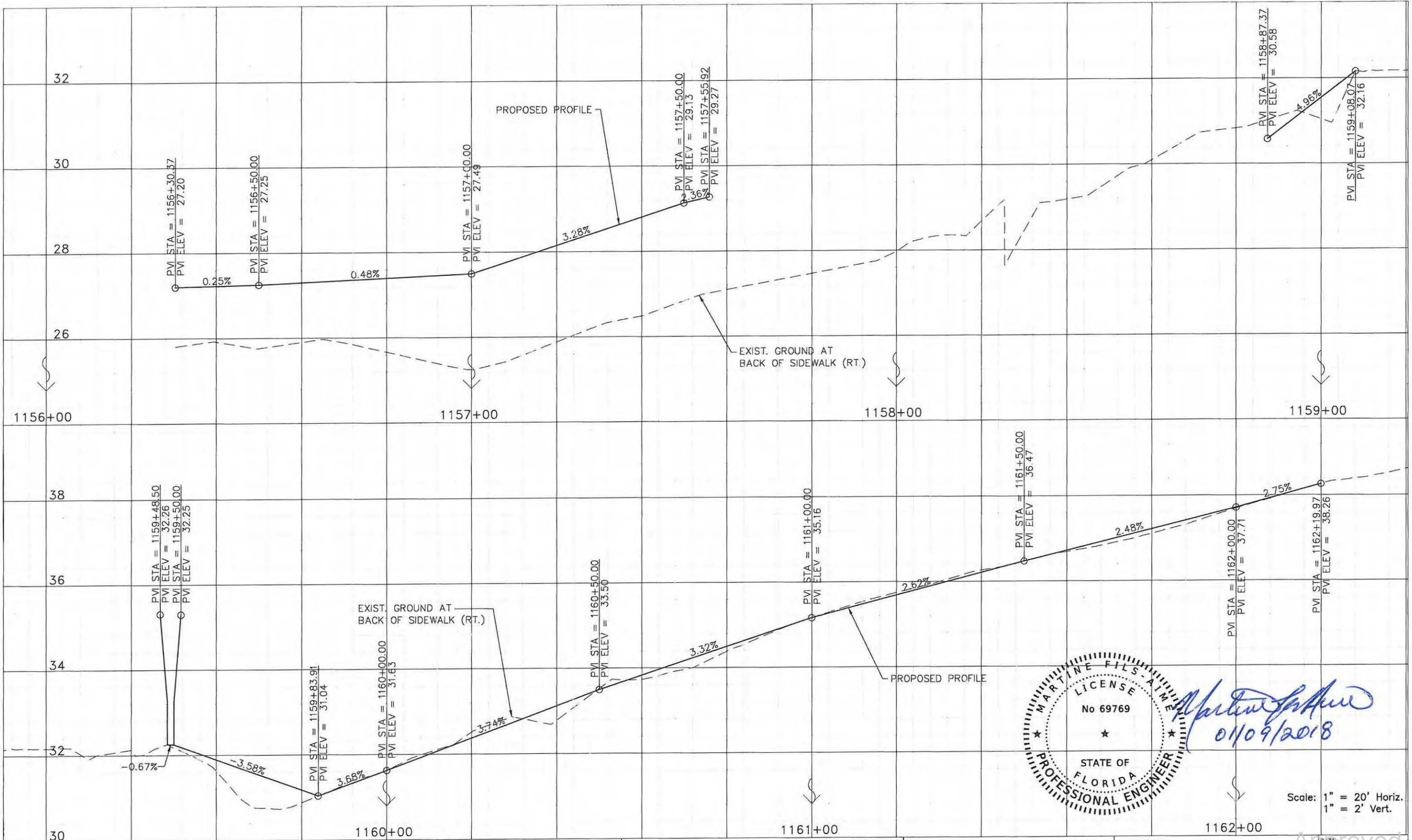
APPROVED BY: MARTINE FILS-AIME, P.E.
 FLA. REG. NO 69769

DATE: 12/20/17
 PROJECT NO.: 001020A
 SHEET: 10

2/8/2018

T:\pinellas county projects\001020a - spo coachman road\2.0 design\plans\DWG\production\001020A-PL.dwg, Dec 20, 2017 - 2:07pm

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Martine Fils-Aime
01/09/2018

Scale: 1" = 20' Horiz.
1" = 2' Vert.

REV. NO.	DATE	DESCRIPTION	REV. BY	CHECKED



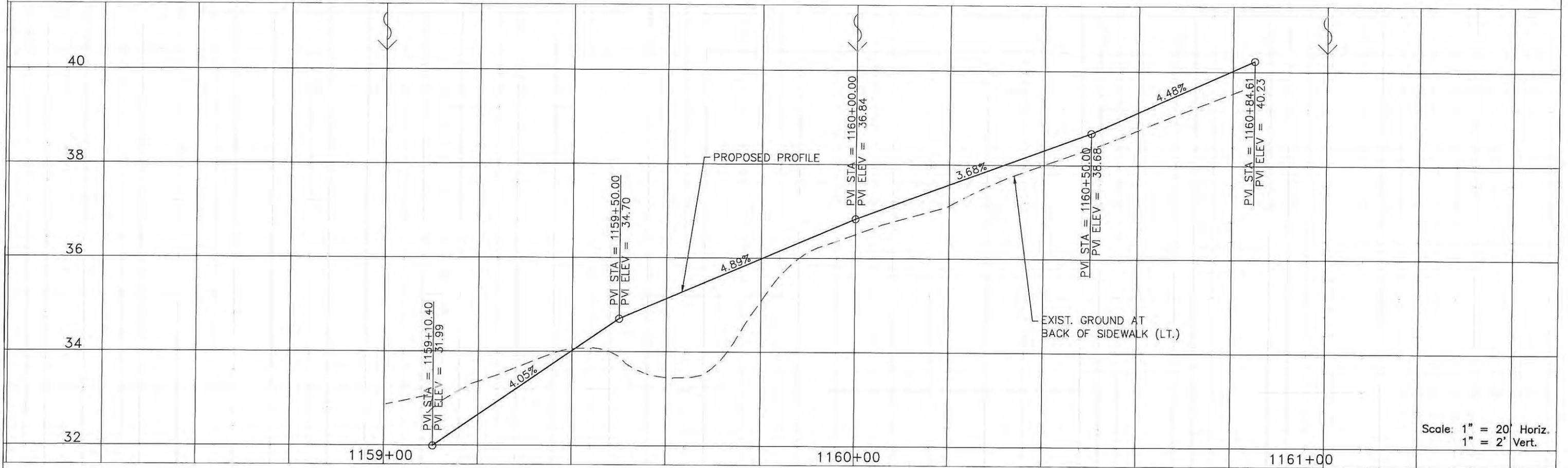
PROJECT: SR 590 (NE COACHMAN RD)
at CR 535 (OLD COACHMAN RD)

DESCRIPTION: BACK OF SIDEWALK PROFILE
SRL1 RT

APPROVED BY: MARTINE FILS-AIME, P.E.
FLA. REG. NO 69769

Approved
DATE: 12/20/17
PROJECT NO: 001020A
SHEET: 013
Brian Bennett
2/8/2018

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Scale: 1" = 20' Horiz.
1" = 2' Vert.



REV. NO.	DATE	DESCRIPTION	REV. BY	CHECKED



PROJECT: SR 590 (NE COACHMAN RD)
at CR 535 (OLD COACHMAN RD)

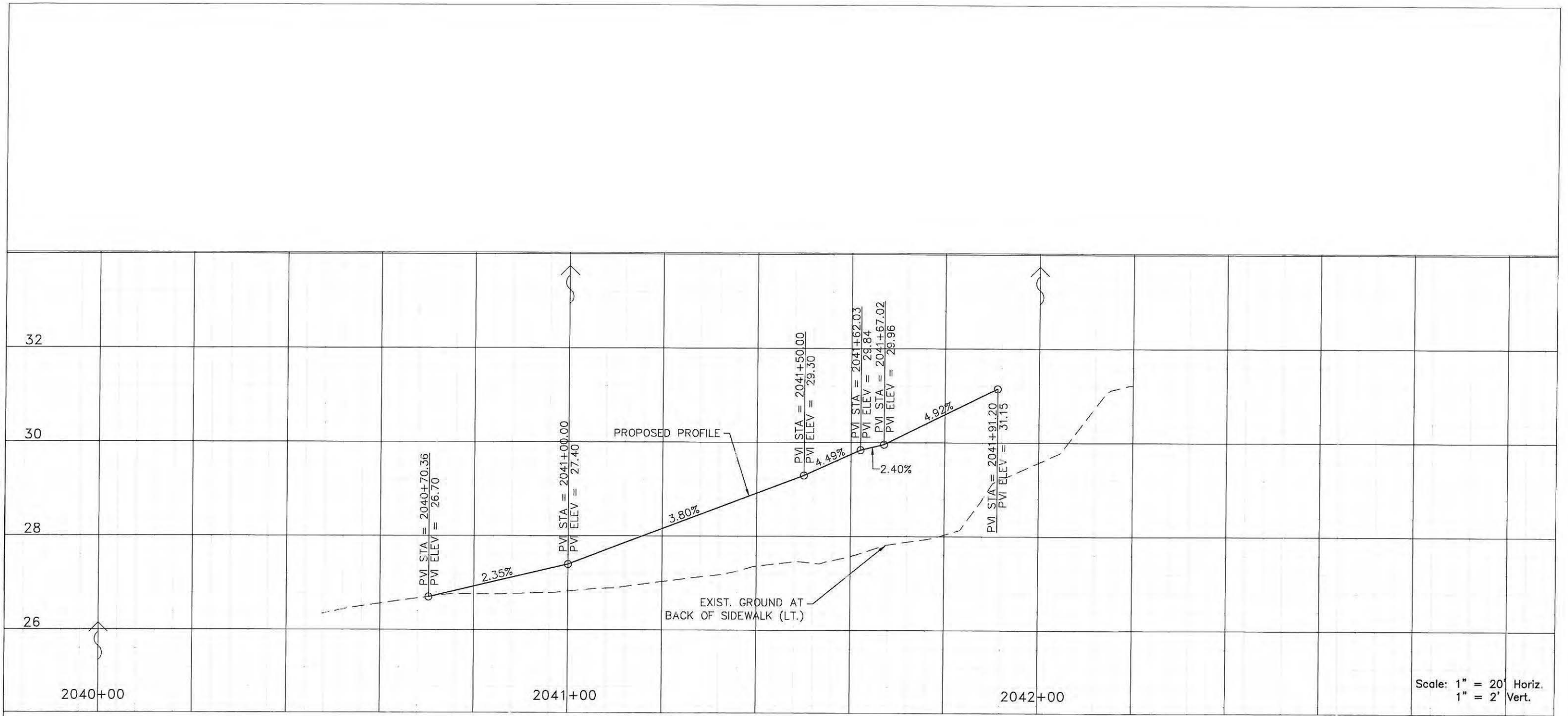
DESCRIPTION: BACK OF SIDEWALK PROFILE
SRL1 LT

APPROVED BY: MARTINE FILS-AIME, P.E.
FLA. REG. NO 69769

DATE: 12/20/17
PROJECT NO.: 001020A
SHEET: 12

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2/8/2018

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Scale: 1" = 20' Horiz.
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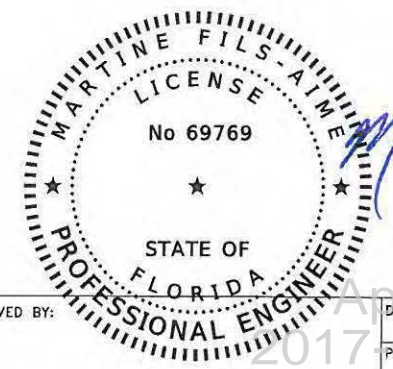
REV. NO.	DATE	DESCRIPTION	REV. BY	CHECKED



PROJECT: SR 590 (NE COACHMAN RD)
at CR 535 (OLD COACHMAN RD)

DESCRIPTION: BACK OF SIDEWALK PROFILE
SRL2 LT

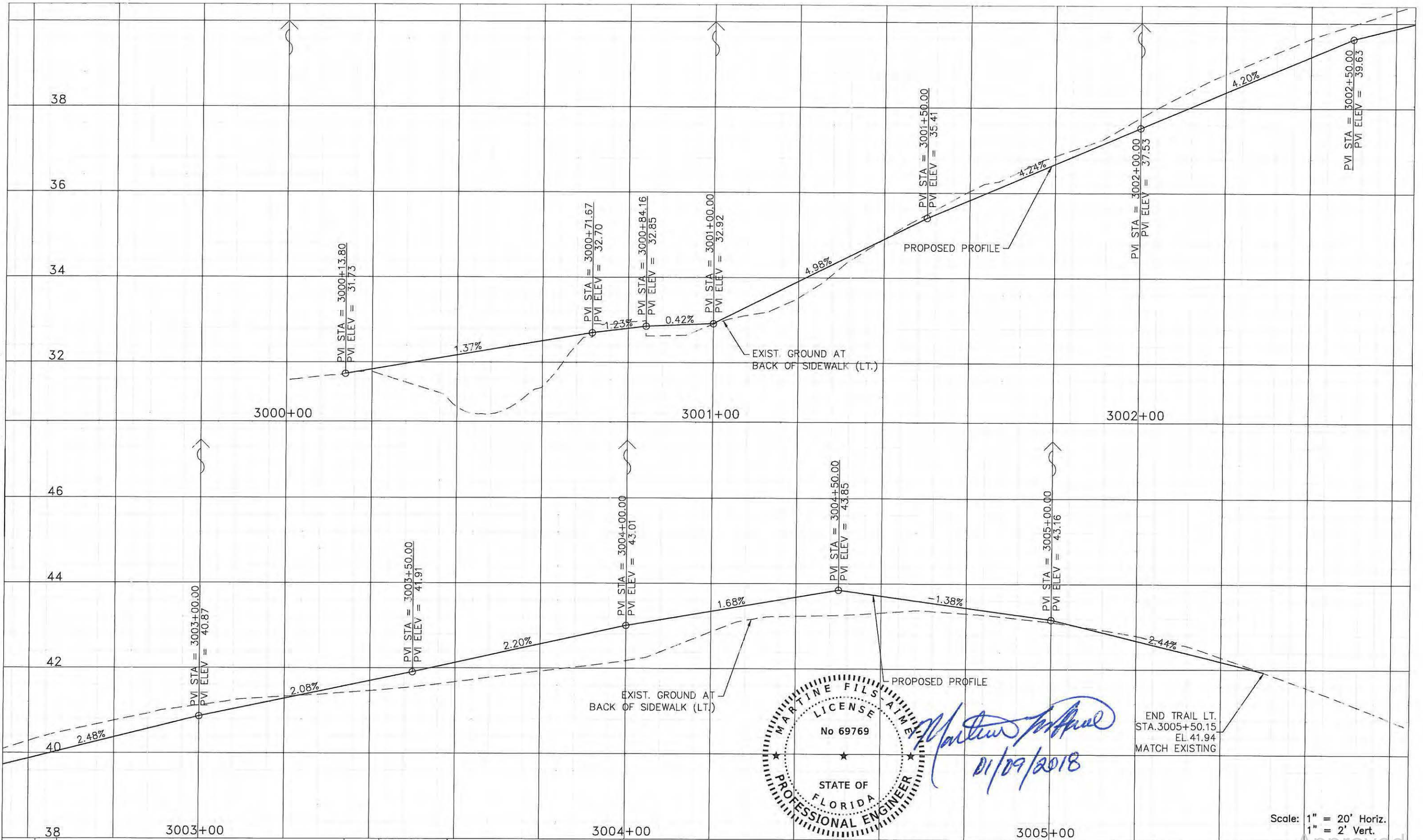
APPROVED BY: MARTINE FILS-AIME, P.E.
FLA. REG. NO 69769



Martine Fils-Aime
01/09/2018

Approved
2017 © 159-013
PROJECT NO. 001020A
DATE: 12/20/17
SHEET: 13
Brian Bennett
2/8/2018

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MARTINE FILS-AIME
 LICENSE
 No 69769
 STATE OF FLORIDA
 PROFESSIONAL ENGINEER
Martine Fils-Aime
 01/09/2018

END TRAIL LT.
 STA. 3005+50.15
 EL. 41.94
 MATCH EXISTING

Scale: 1" = 20' Horiz.
 1" = 2' Vert.

REV. NO.	DATE	DESCRIPTION	REV. BY	CHECKED



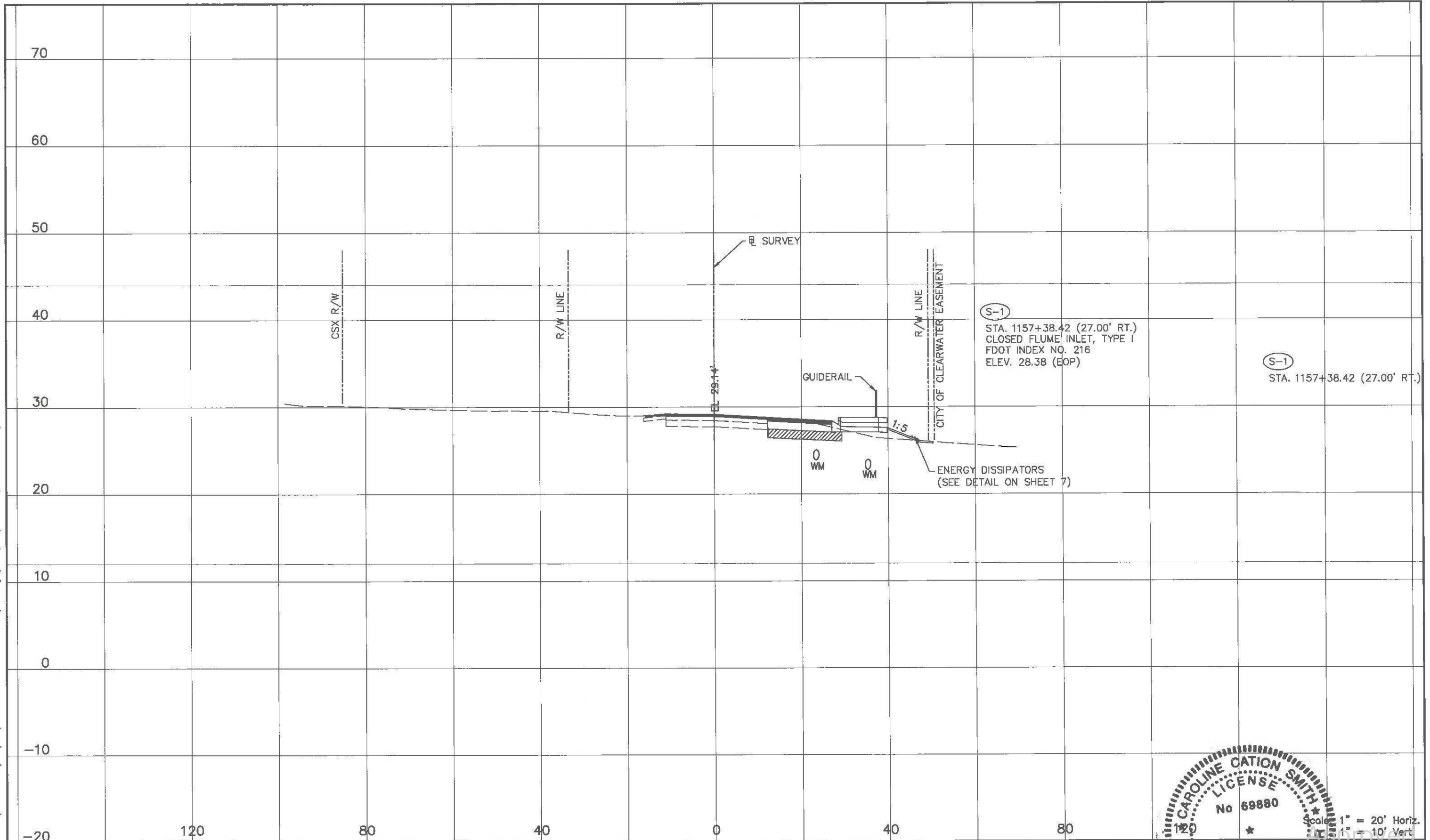
PROJECT: SR 590 (NE COACHMAN RD)
 at CR 535 (OLD COACHMAN RD)

DESCRIPTION: BACK OF SIDEWALK PROFILE
 SRL3 LT

APPROVED BY: MARTINE FILS-AIME, P.E.
 FLA. REG. NO 69769

DATE: 12/20/17
 PROJECT NO. 001020A
 SHEET: 14
 Approved
 2017 © 199-013
 Brian Bennett
 2/8/2018

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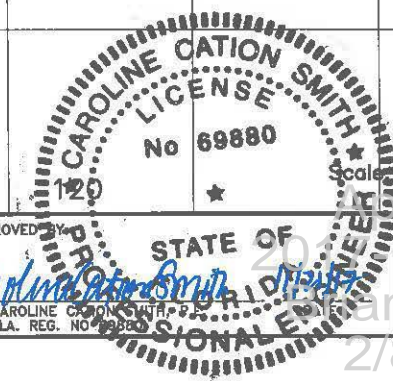
REV. NO.	DATE	DESCRIPTION	REV. BY	CHECKED



PROJECT: SR 590 (NE COACHMAN RD)
at CR 535 (OLD COACHMAN RD)

DESCRIPTION: DRAINAGE STRUCTURE SECTIONS

APPROVED BY: *Caroline Cation Smith*
CAROLINE CATION SMITH, P.E.
FLA. REG. NO. 69880

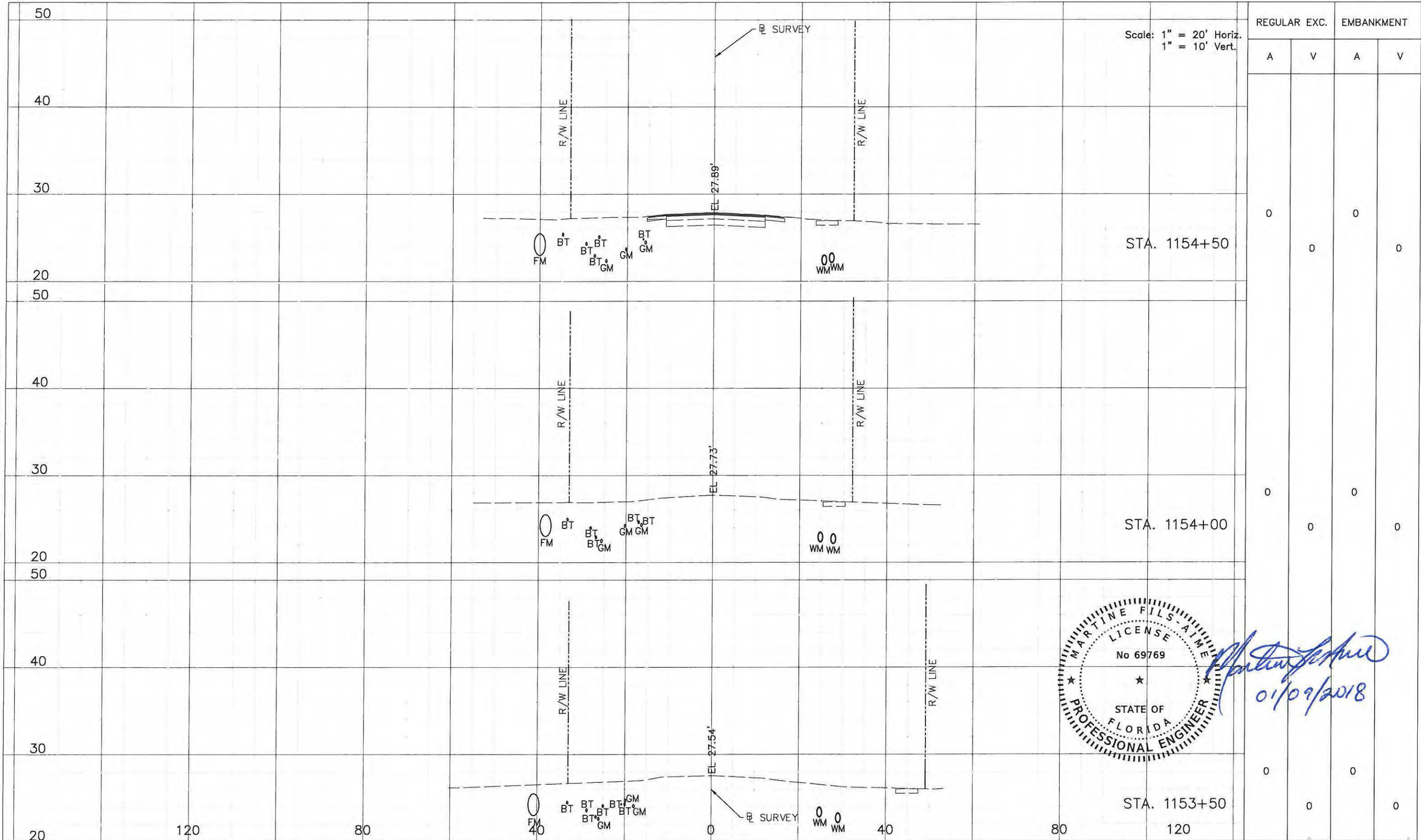


DATE: 11/15/17
PROJECT NO. 001020A
SHEET: 15

Scale: 1" = 20' Horiz.
1" = 10' Vert.

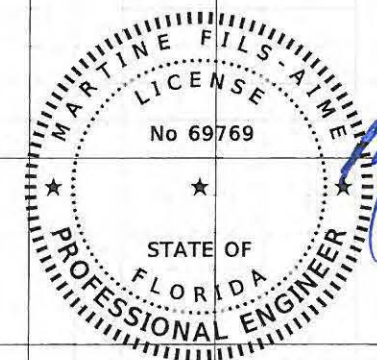
Approved by: *Caroline Cation Smith*
2/8/2018

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Scale: 1" = 20' Horiz.
1" = 10' Vert.

REGULAR EXC.		EMBANKMENT	
A	V	A	V
0	0	0	0
0	0	0	0
0	0	0	0



Martine Fils-Aime
01/09/2018

REV. NO.	DATE	DESCRIPTION	REV. BY	CHECKED



PROJECT: SR 590 (NE COACHMAN RD)
at CR 535 (OLD COACHMAN RD)

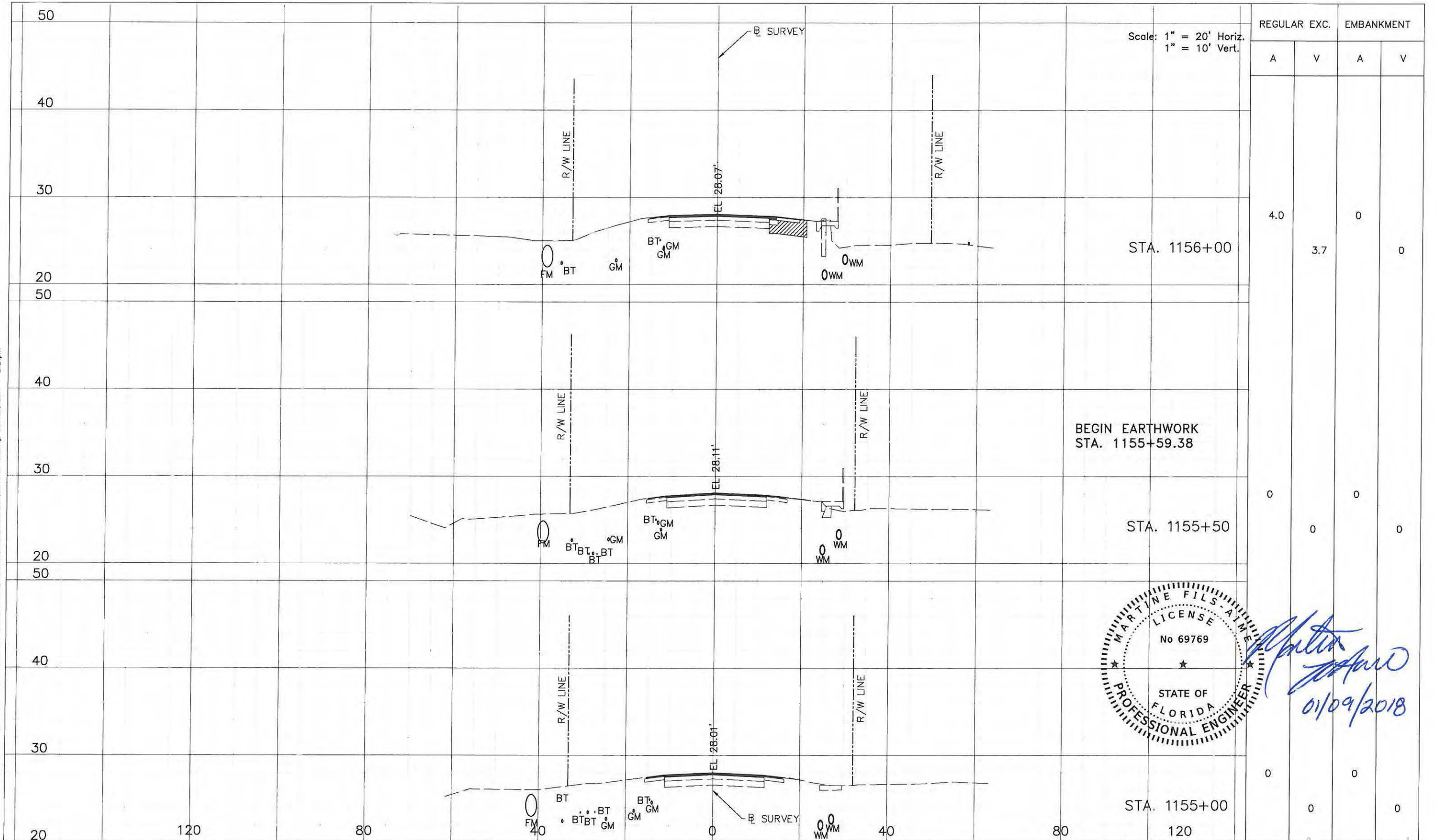
DESCRIPTION: CROSS SECTIONS

APPROVED BY: MARTINE FILS-AIME, P.E.
FLA. REG. NO 69769

DATE: 12/20/17
PROJECT NO: 001020A
SHEET: 16

Approved
2017-07-13
Brian Bennett
2/8/2018

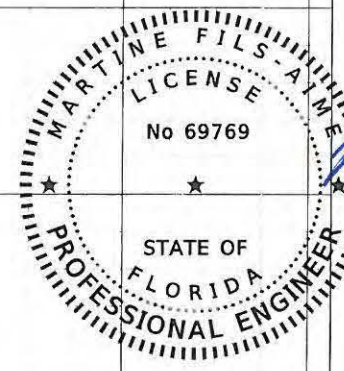
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Scale: 1" = 20' Horiz.
1" = 10' Vert.

REGULAR EXC.		EMBANKMENT	
A	V	A	V
4.0	3.7	0	0
0	0	0	0
0	0	0	0

BEGIN EARTHWORK
STA. 1155+59.38



Martine Fils-Aime
01/09/2018

REV. NO.	DATE	DESCRIPTION	REV. BY	CHECKED



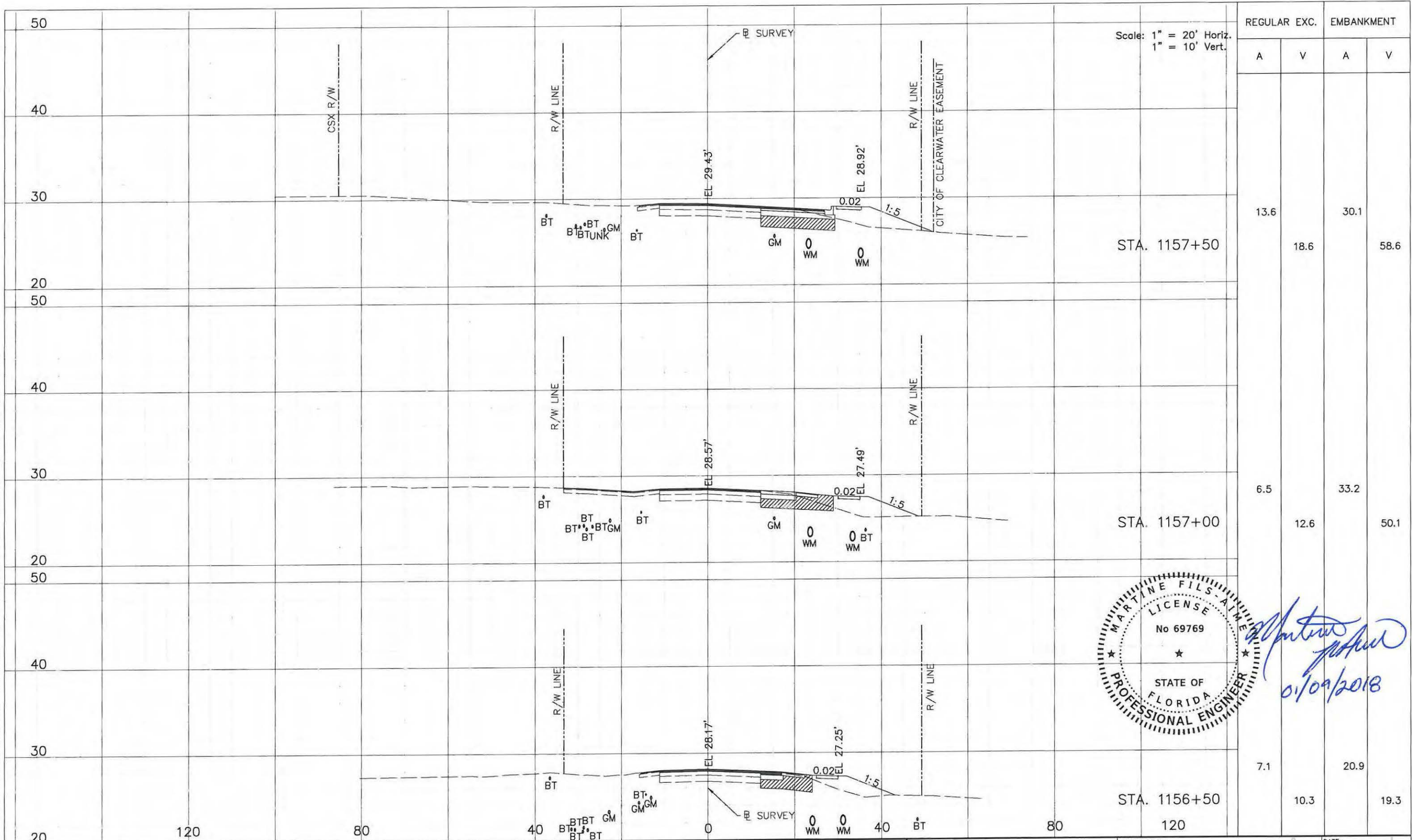
PROJECT: SR 590 (NE COACHMAN RD)
at CR 535 (OLD COACHMAN RD)

DESCRIPTION: CROSS SECTIONS

APPROVED BY: *Martine Fils-Aime*
DATE: 12/20/17
PROJECT NO: 001020A
SHEET: 17

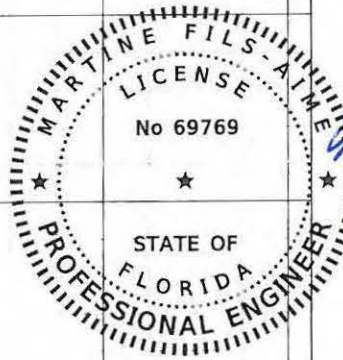
Approved
2017-07-29-013
Bria Bennett
2/8/2018

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Scale: 1" = 20' Horiz.
1" = 10' Vert.

REGULAR EXC.		EMBANKMENT	
A	V	A	V
13.6	18.6	30.1	58.6
6.5	12.6	33.2	50.1
7.1	10.3	20.9	19.3



Martine Fils-Aime
01/09/2018

REV. NO.	DATE	DESCRIPTION	REV. BY



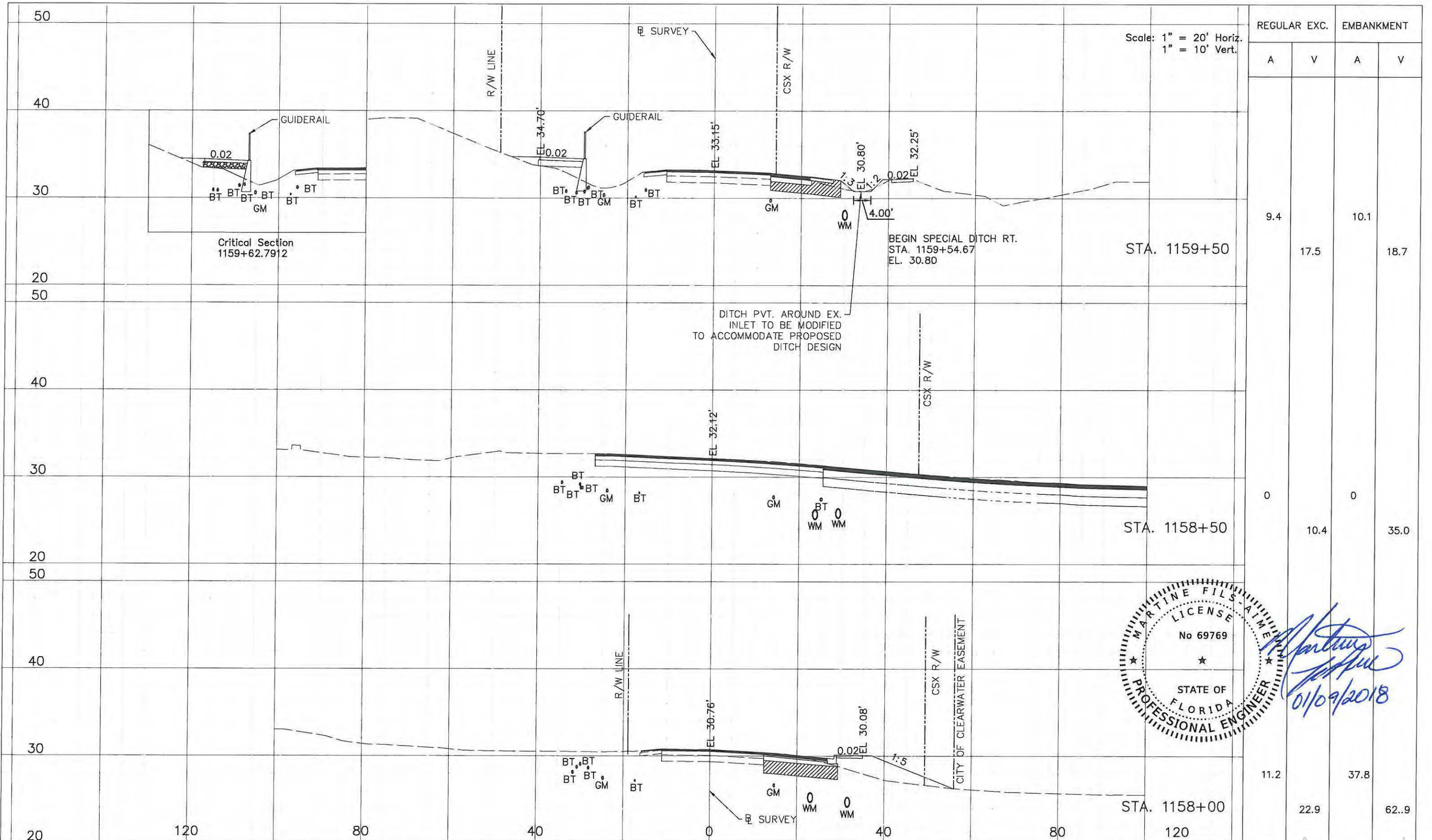
PROJECT: SR 590 (NE COACHMAN RD)
at CR 535 (OLD COACHMAN RD)

DESCRIPTION: CROSS SECTIONS

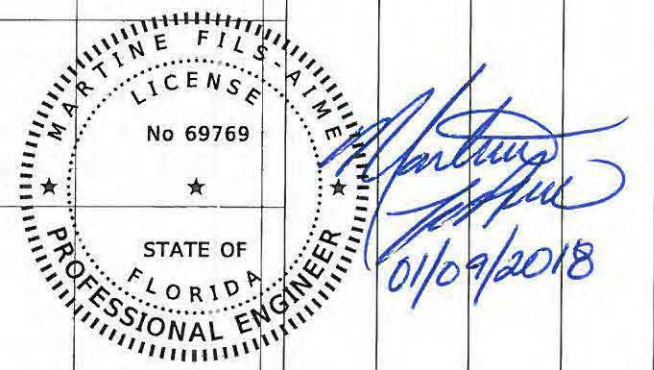
APPROVED BY: *Martine Fils-Aime*
DATE: 12/20/17
PROJECT NO. 001020A
SHEET: 18

Approved
2017-01-09-013
Brian Bennett
2/8/2018

T:\pinellas county projects\001020a - spo coachman road\2.0 design\Plans\DWG\production\001020A-XS.dwg, Dec 20, 2017 - 2:21pm



REGULAR EXC.		EMBANKMENT	
A	V	A	V
9.4	17.5	10.1	18.7
0	10.4	0	35.0
11.2	22.9	37.8	62.9



REV. NO.	DATE	DESCRIPTION	REV. BY	CHECKED



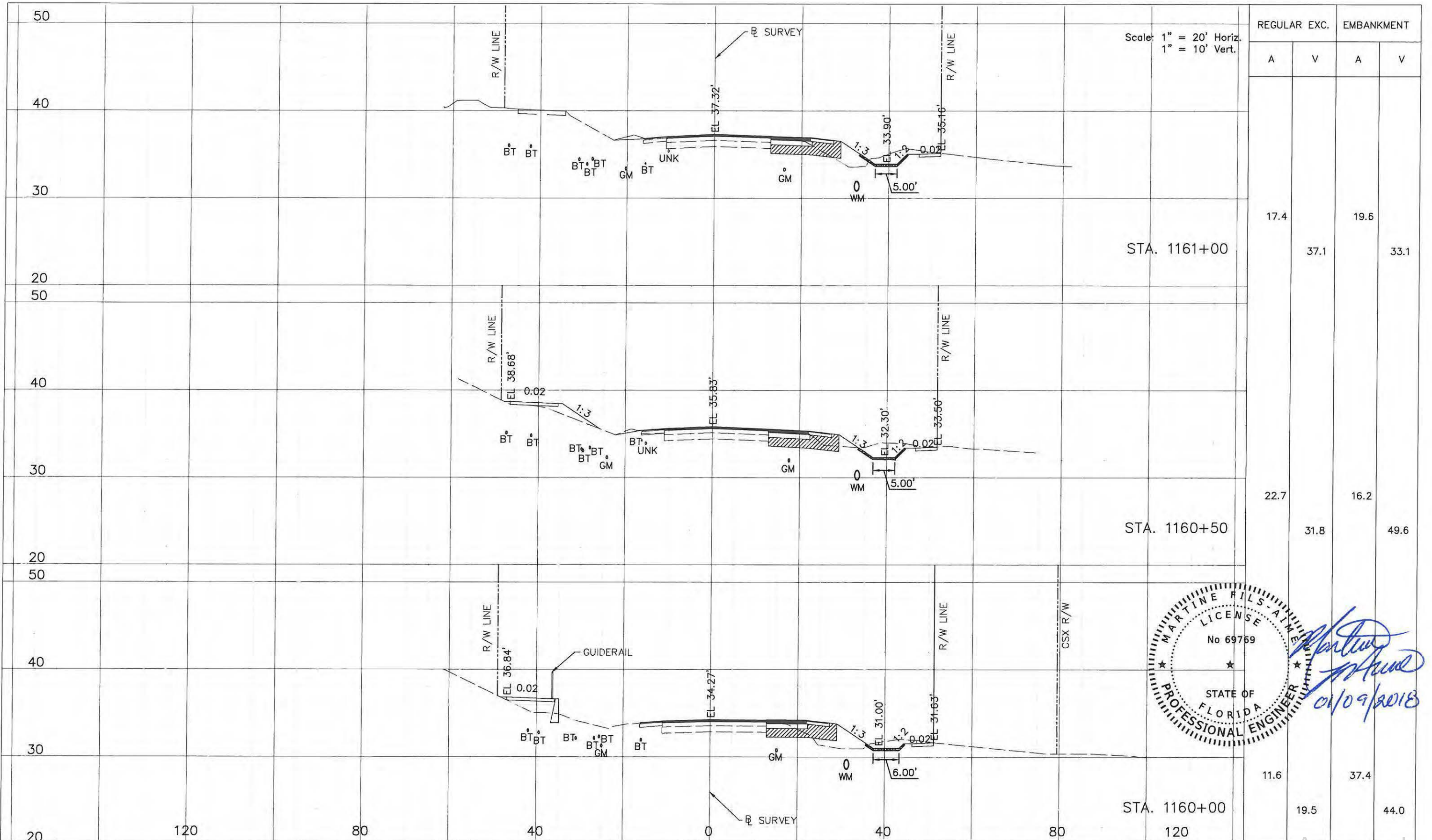
PROJECT: SR 590 (NE COACHMAN RD)
at CR 535 (OLD COACHMAN RD)

DESCRIPTION: CROSS SECTIONS

APPROVED BY: *Martine Fils-Aime*
DATE: 12/20/17
PROJECT NO. 001020A
SHEET: 19

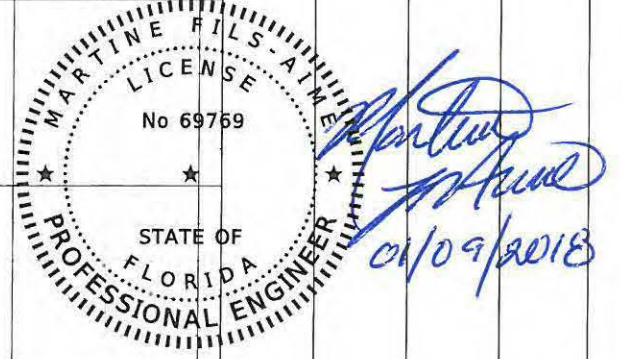
Approved
2017-07-19-013
Bria Bennett
2/8/2018

T:\pinellas county projects\001020a - spo coachman road\2.0 design\Plans\DWG\production\001020A-XS.dwg, Dec 20, 2017 - 2:22pm



Scale: 1" = 20' Horiz.
1" = 10' Vert.

REGULAR EXC.		EMBANKMENT	
A	V	A	V
17.4	37.1	19.6	33.1
22.7	31.8	16.2	49.6
11.6	19.5	37.4	44.0



REV. NO.	DATE	DESCRIPTION	REV. BY	CHECKED



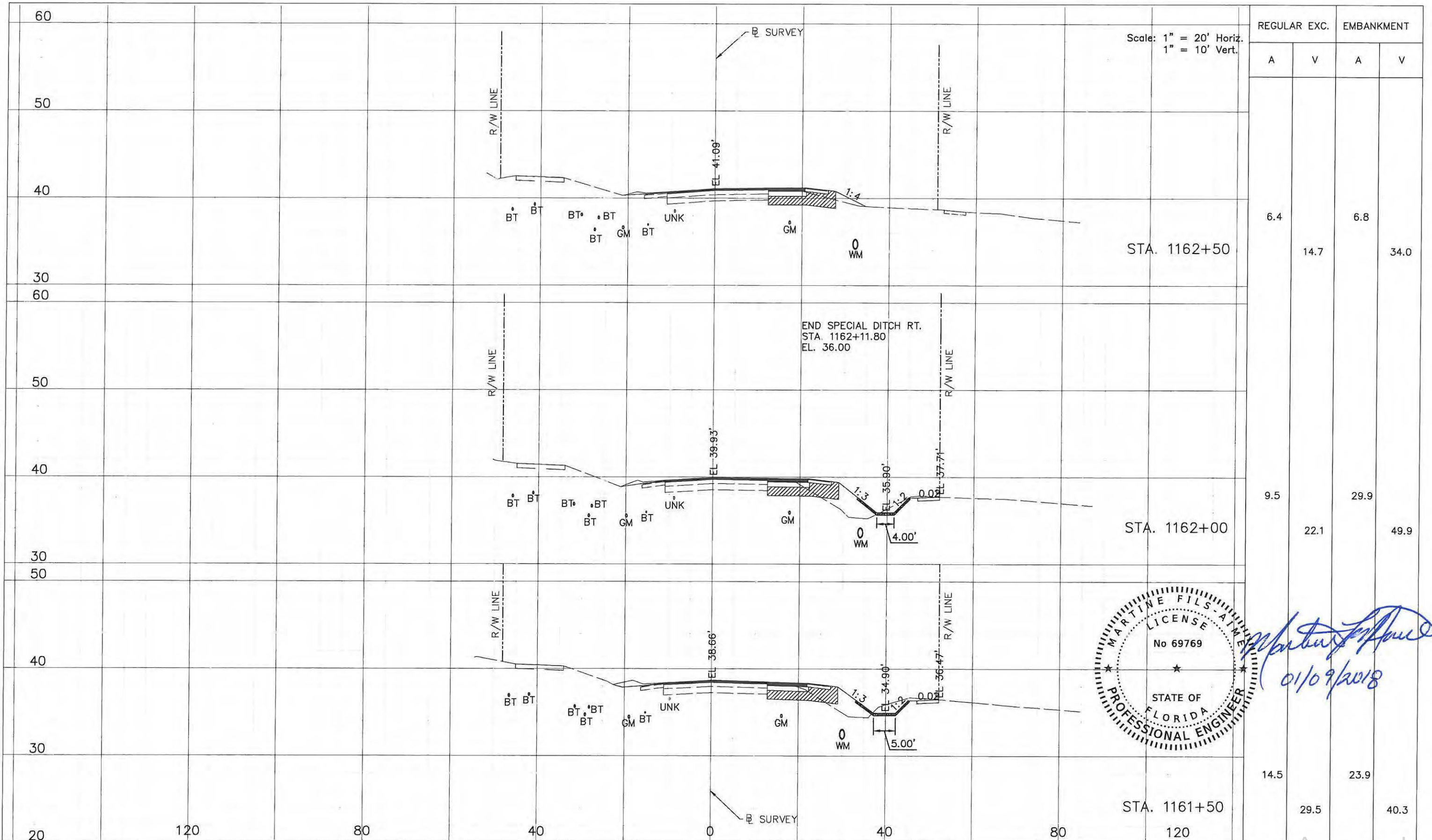
PROJECT: SR 590 (NE COACHMAN RD)
at CR 535 (OLD COACHMAN RD)

DESCRIPTION: CROSS SECTIONS

APPROVED BY: *Martine Fils-Aime*
DATE: 12/20/17
PROJECT NO.: 001020A
SHEET: 20

Approved
2017-0759-013
Bria Bonnett
2/8/2018

T:\pinellas county projects\001020a - sro coachman road\2.0 design\Plans\DWG\production\001020A-XS.dwg, Dec 20, 2017 - 2:22pm



Scale: 1" = 20' Horiz.
1" = 10' Vert.

REGULAR EXC.		EMBANKMENT	
A	V	A	V
6.4	14.7	6.8	34.0
9.5	22.1	29.9	49.9
14.5	29.5	23.9	40.3



Martine Fils-Aime
01/09/2018

REV. NO.	DATE	DESCRIPTION	REV. BY	CHECKED



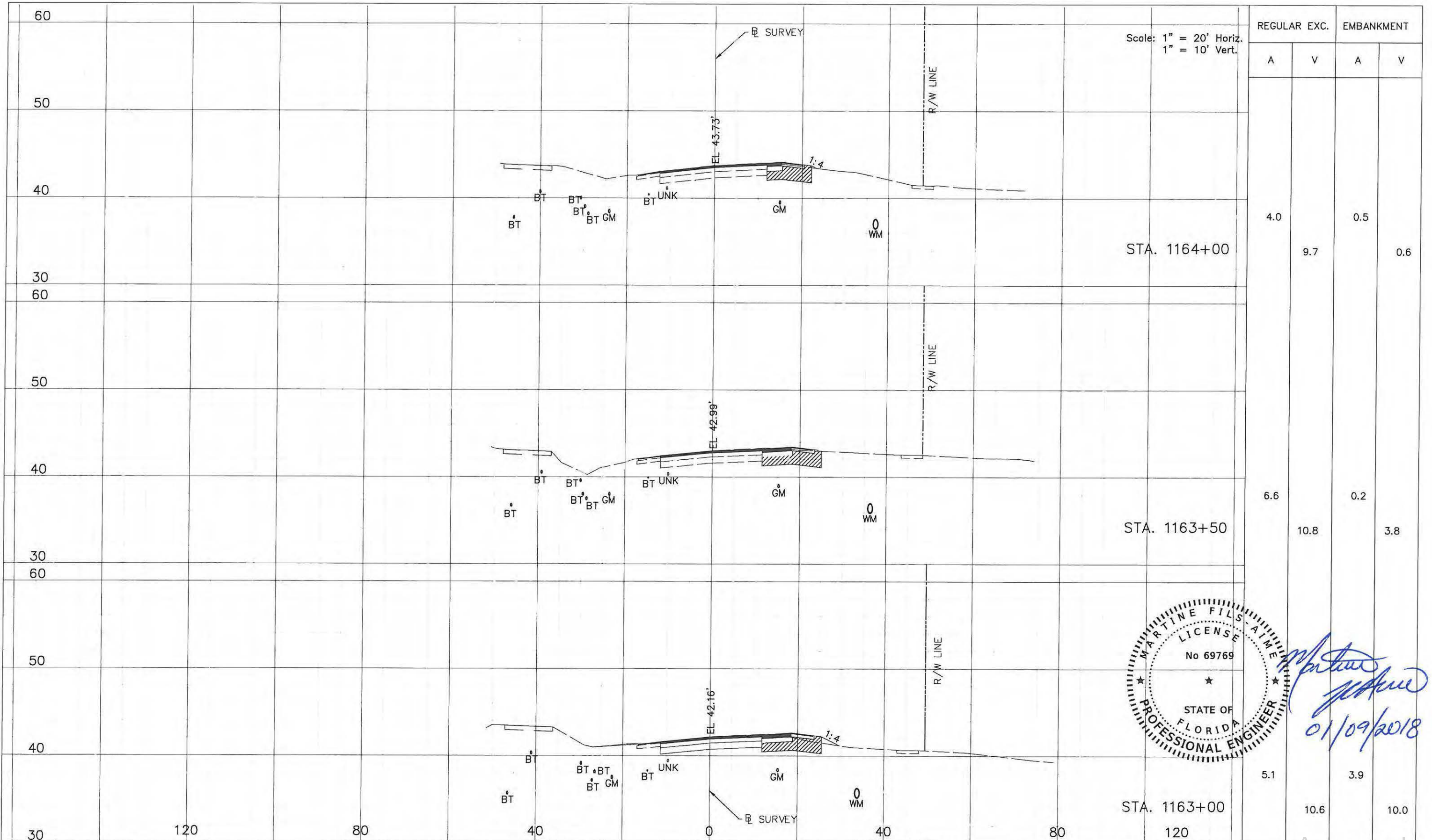
PROJECT: SR 590 (NE COACHMAN RD)
at CR 535 (OLD COACHMAN RD)

DESCRIPTION: CROSS SECTIONS

APPROVED BY: MARTINE FILS-AIME, P.E.
FLA. REG. NO 69769

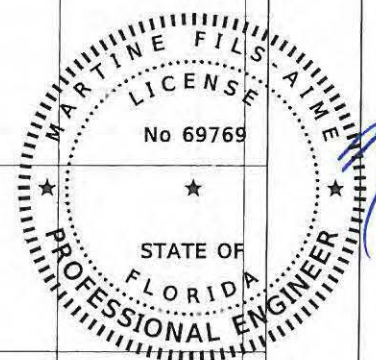
Approved
2017-07-09-013
Brian Bennett
DATE: 12/20/17
PROJECT NO.: 001020A
SHEET: 21
2/8/2018

T:\pinellas county projects\001020a - spo coachman road\2.0 design\Plans\DWG\production\001020A-XS.dwg, Dec 20, 2017 - 2:22pm



Scale: 1" = 20' Horiz.
1" = 10' Vert.

REGULAR EXC.		EMBANKMENT	
A	V	A	V
4.0	9.7	0.5	0.6
6.6	10.8	0.2	3.8
5.1	10.6	3.9	10.0



Martine Fils-Aime
01/09/2018

REV. NO.	DATE	DESCRIPTION	REV. BY	CHECKED



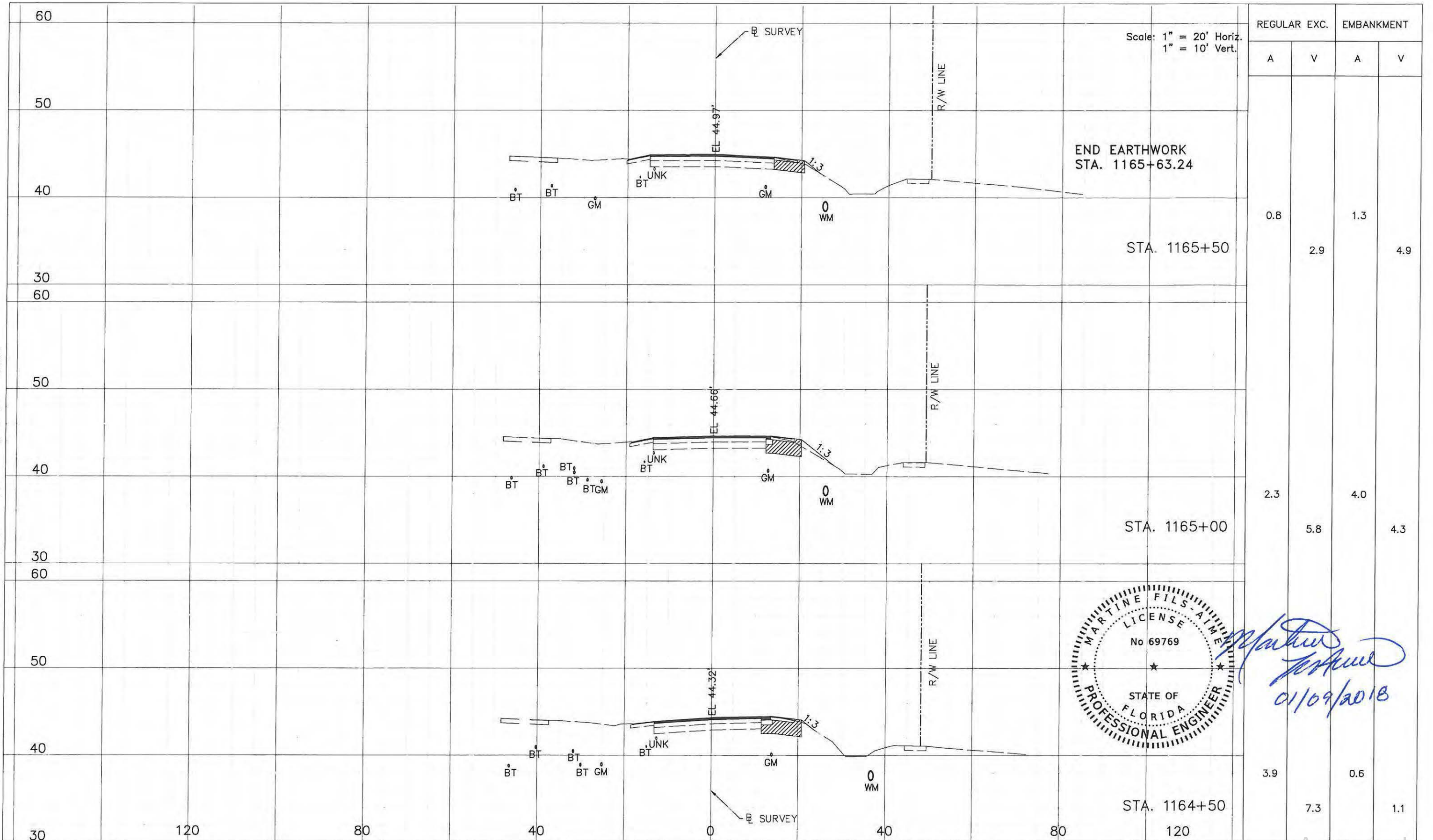
PROJECT: SR 590 (NE COACHMAN RD)
at CR 535 (OLD COACHMAN RD)

DESCRIPTION: CROSS SECTIONS

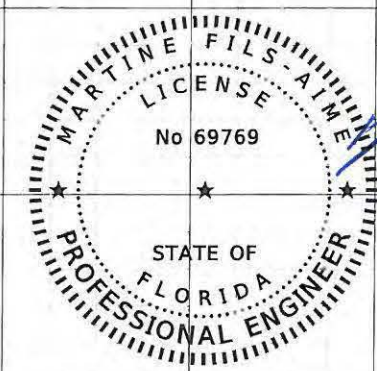
APPROVED BY: MARTINE FILS-AIME, P.E.
FLA. REG. NO 69769

Approved
2017-07-59-013
DATE: 12/20/17
PROJECT NO. 001020A
SHEET: 22
Bria Bennett
2/8/2018

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REGULAR EXC.		EMBANKMENT	
A	V	A	V
0.8	2.9	1.3	4.9
2.3	5.8	4.0	4.3
3.9	7.3	0.6	1.1



Martine Fils-Aime
01/09/2018

REV. NO.	DATE	DESCRIPTION	REV. BY	CHECKED



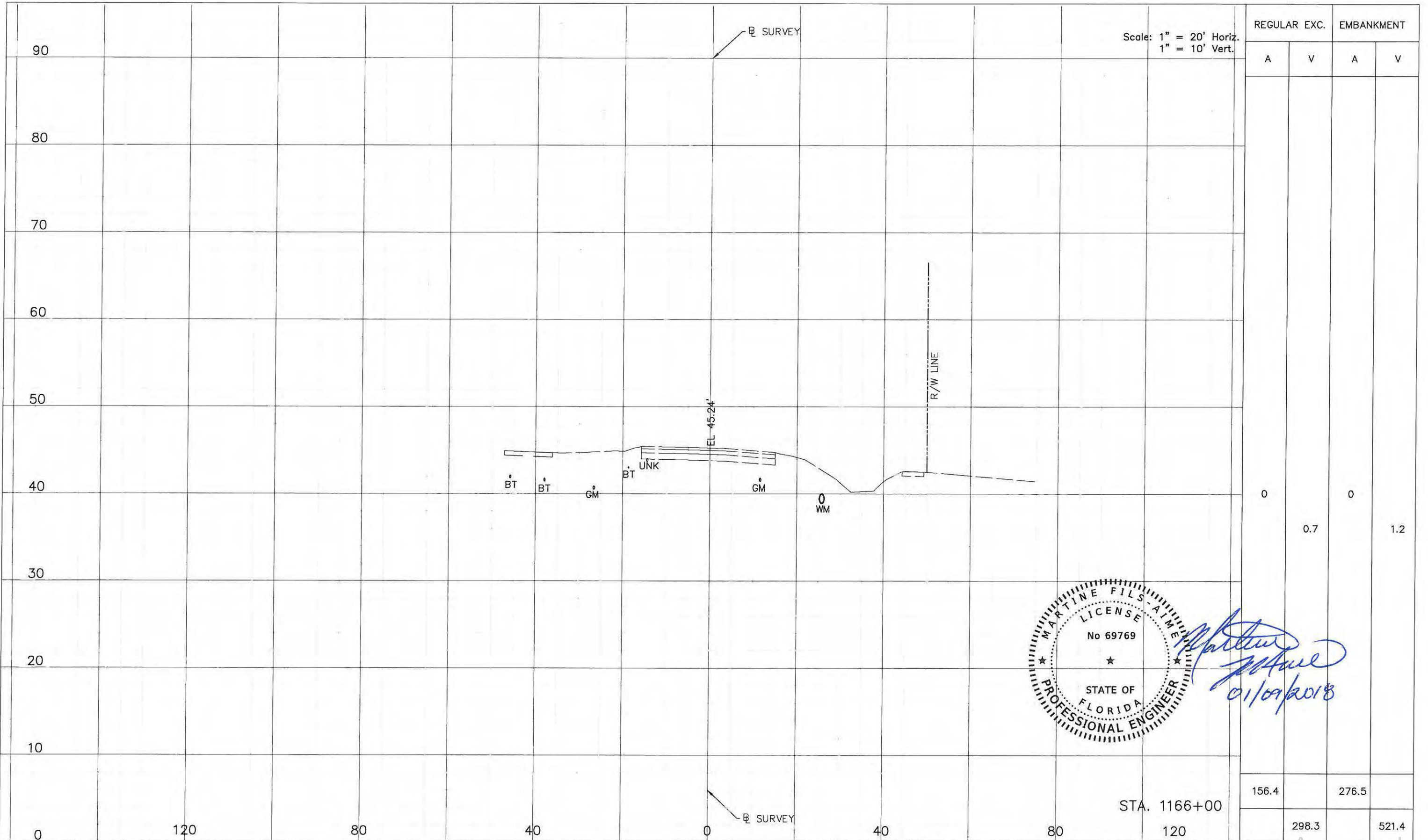
PROJECT: SR 590 (NE COACHMAN RD)
at CR 535 (OLD COACHMAN RD)

DESCRIPTION: CROSS SECTIONS

APPROVED BY: MARTINE FILS-AIME, P.E.
FLA. REG. NO 69769

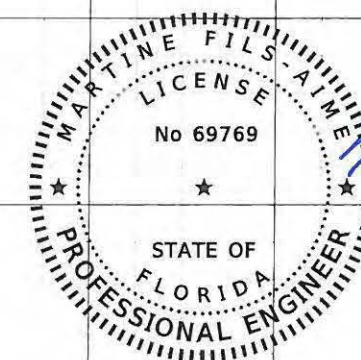
DATE: 12/20/17
PROJECT NO: 001020A
SHEET: 23
Approved 2017-07-29-013
Bria Bennett
2/8/2018

T:\pinellas county projects\001020a - spo coachman road\2.0 design\Plans\DWG\production\001020A-XS.dwg, Dec 20, 2017 - 2:23pm



Scale: 1" = 20' Horiz.
1" = 10' Vert.

REGULAR EXC.		EMBANKMENT	
A	V	A	V
0	0.7	0	1.2
156.4		276.5	
	298.3		521.4



Martine Fils-Aime
01/09/2018

STA. 1166+00

REV. NO.	DATE	DESCRIPTION	REV. BY



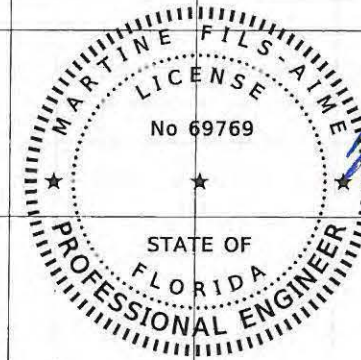
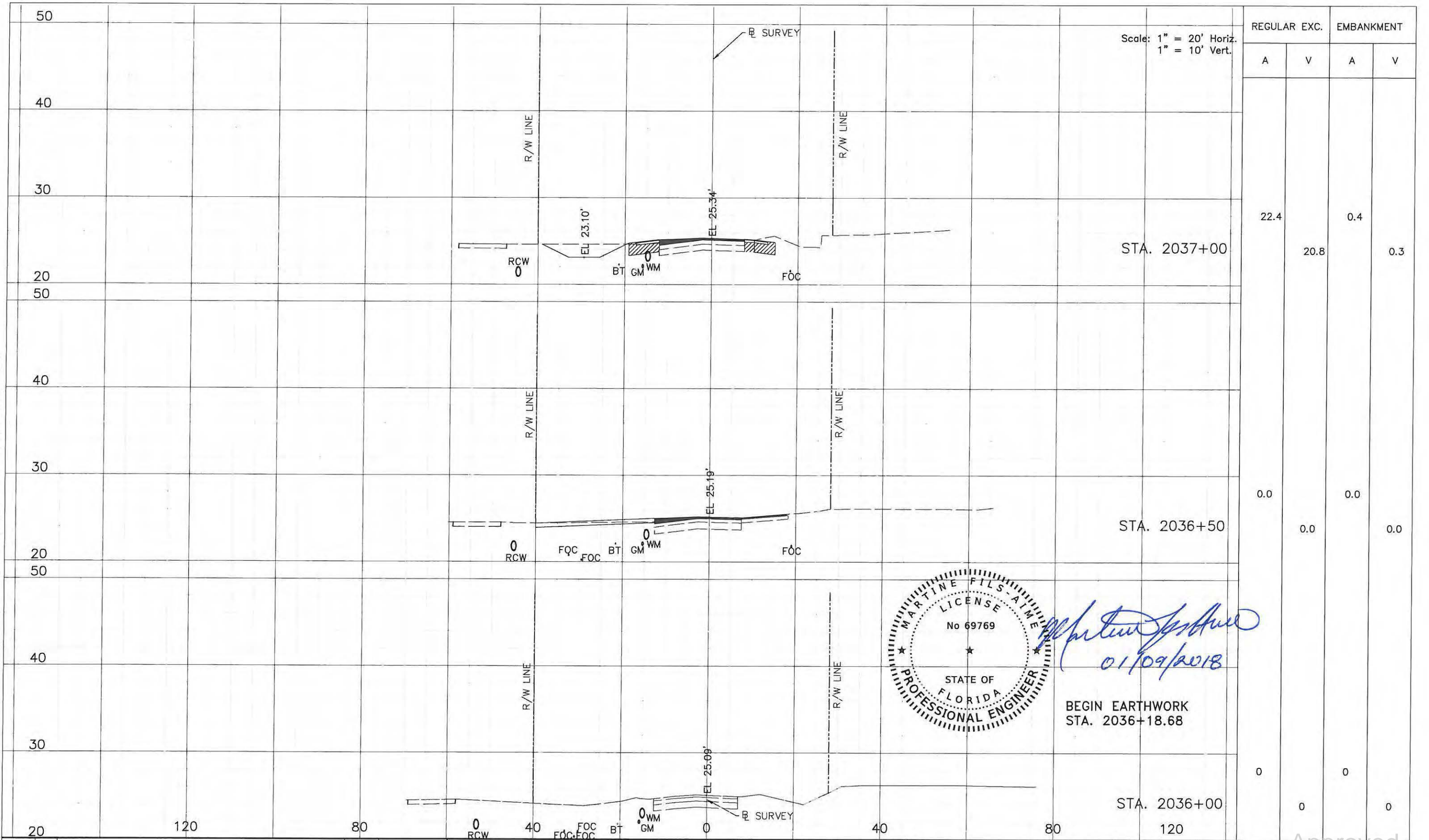
PROJECT: SR 590 (NE COACHMAN RD)
at CR 535 (OLD COACHMAN RD)

DESCRIPTION: CROSS SECTIONS

APPROVED BY: MARTINE FILS-AIME, P.E.
FLA. REG. NO 69769

DATE: 12/20/17
PROJECT NO: 001020A
SHEET: 24
Approved
2017-07-29-013
Brian Bennett
2/8/2018

T:\pinellas county projects\001020a - spo coachman road\2.0 design\Plans\DWG\production\001020A-XS.dwg, Dec. 20, 2017 - 2:23pm



Martine Fils-Aime
01/09/2018

BEGIN EARTHWORK
STA. 2036+18.68

REV. NO.	DATE	DESCRIPTION	REV. BY	CHECKED



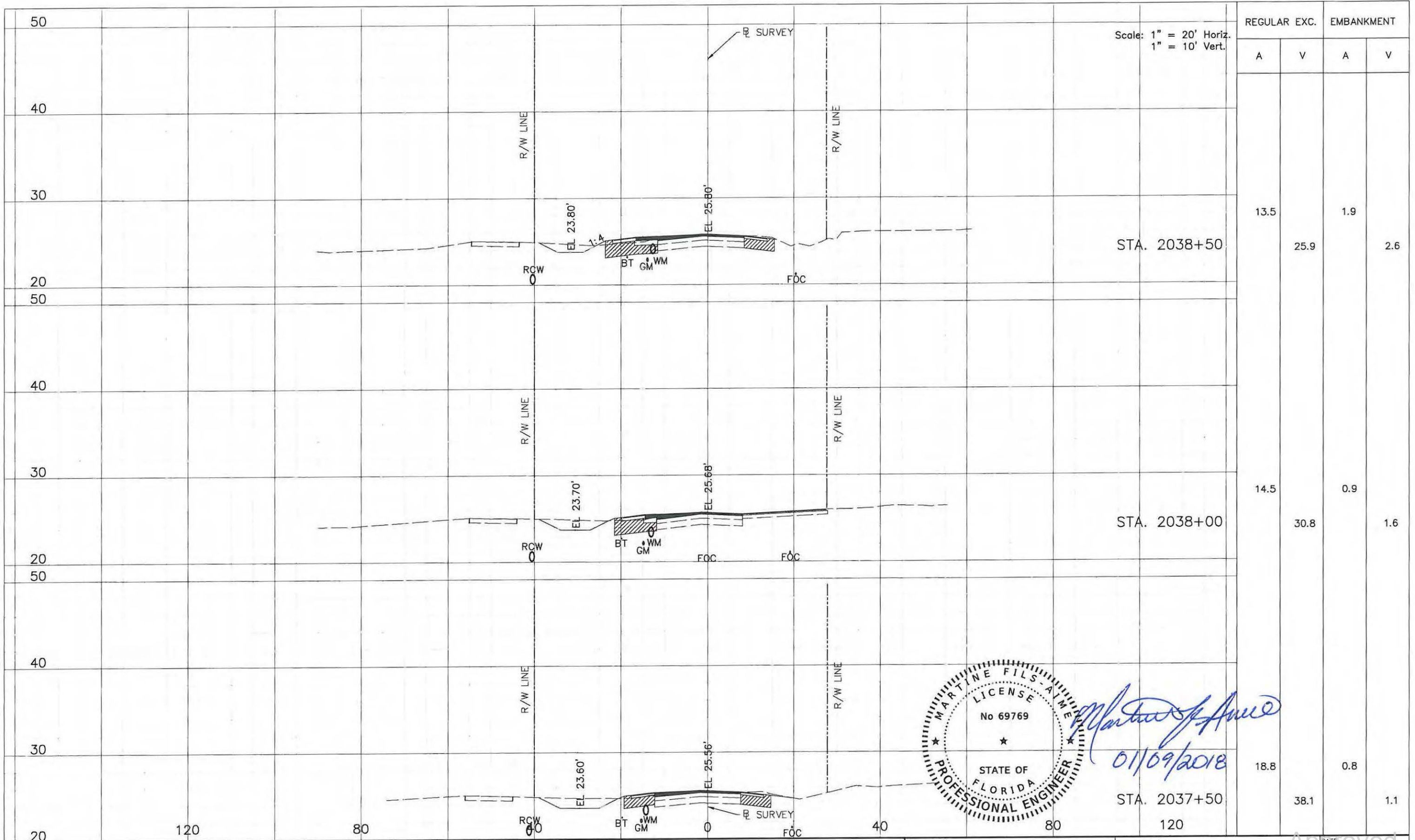
PROJECT: SR 590 (NE COACHMAN RD)
at CR 535 (OLD COACHMAN RD)

DESCRIPTION: CROSS SECTIONS

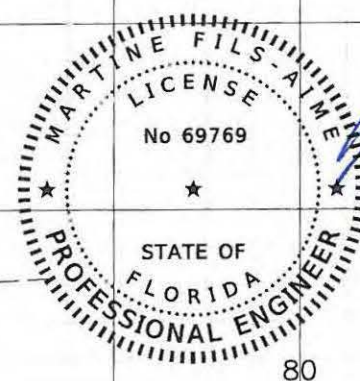
APPROVED BY: *Martine Fils-Aime*
DATE: 12/20/17
PROJECT NO.: 001020A
SHEET: 25

Approved
2017-07-09-013
Brian Bennett
2/8/2018

T:\pinellas county projects\001020a - spa coachman road\2.0 design\Plans\DWG\production\001020A-XS.dwg, Dec 20, 2017 - 2:23pm



REGULAR EXC.		EMBANKMENT	
A	V	A	V
13.5	25.9	1.9	2.6
14.5	30.8	0.9	1.6
18.8	38.1	0.8	1.1



Martine Fils-Aime
01/09/2018

REV. NO.	DATE	DESCRIPTION	REV. BY	CHECKED



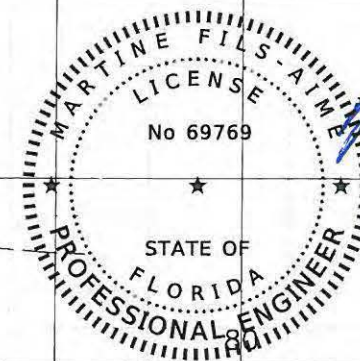
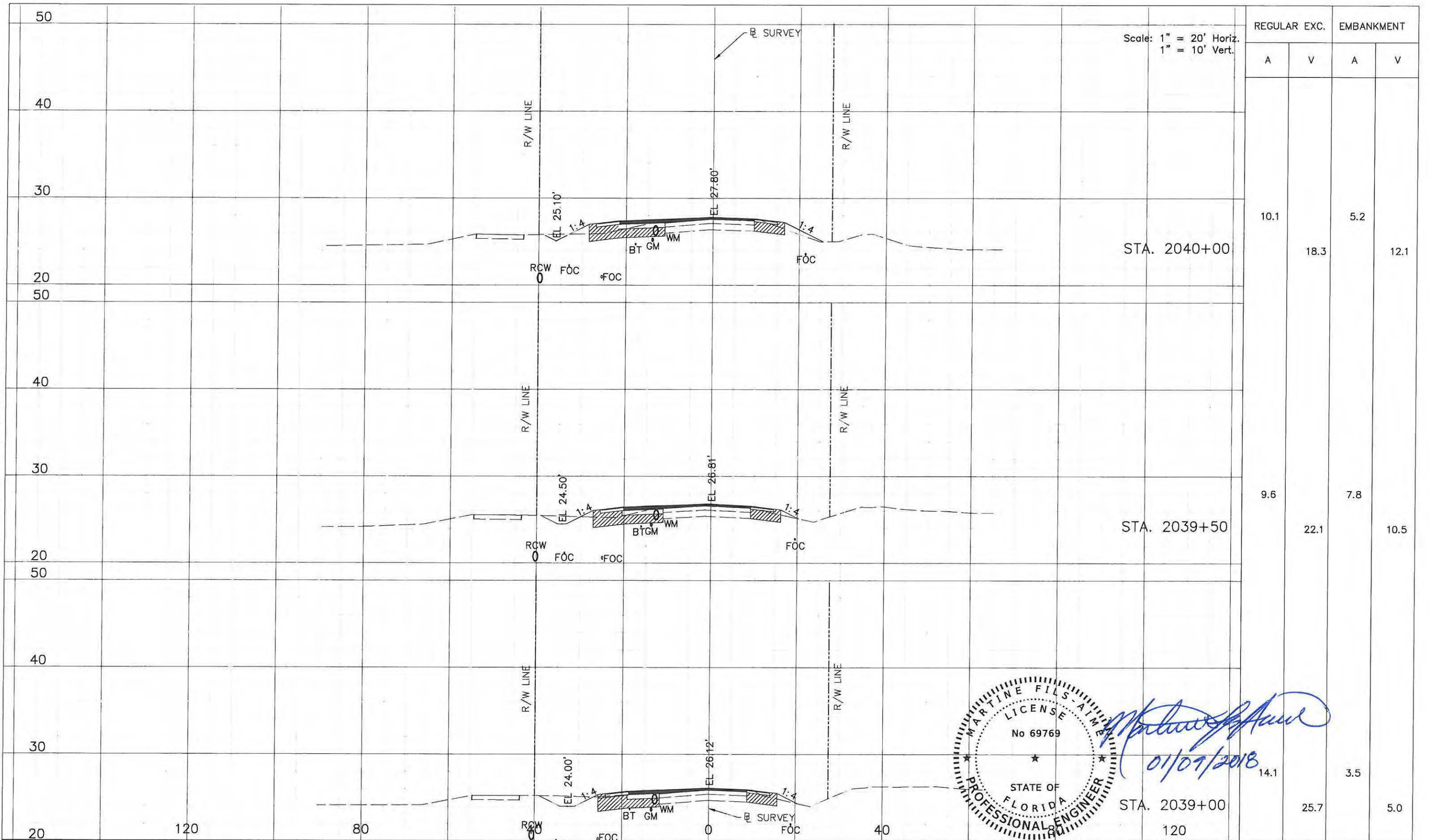
PROJECT: SR 590 (NE COACHMAN RD)
at CR 535 (OLD COACHMAN RD)

DESCRIPTION: CROSS SECTIONS

APPROVED BY: *Martine Fils-Aime*
DATE: 12/20/17
PROJECT NO. 001020A
SHEET: 26
DATE: 2/8/2018

Approved
2017-07-30-013
Brian Bennett

T:\pinellas county projects\001020a - spo coachman road\2.0 design\Plans\DWG_production\001020A-XS.dwg, Dec 20, 2017 - 2:23pm



Martine Fils-Aime
01/09/2018

REV. NO.	DATE	DESCRIPTION	REV. BY	CHECKED

DESIGNED _____
DRAWN _____
CHECKED _____

Pinellas County

PROJECT: SR 590 (NE COACHMAN RD)
at CR 535 (OLD COACHMAN RD)

DESCRIPTION: CROSS SECTIONS

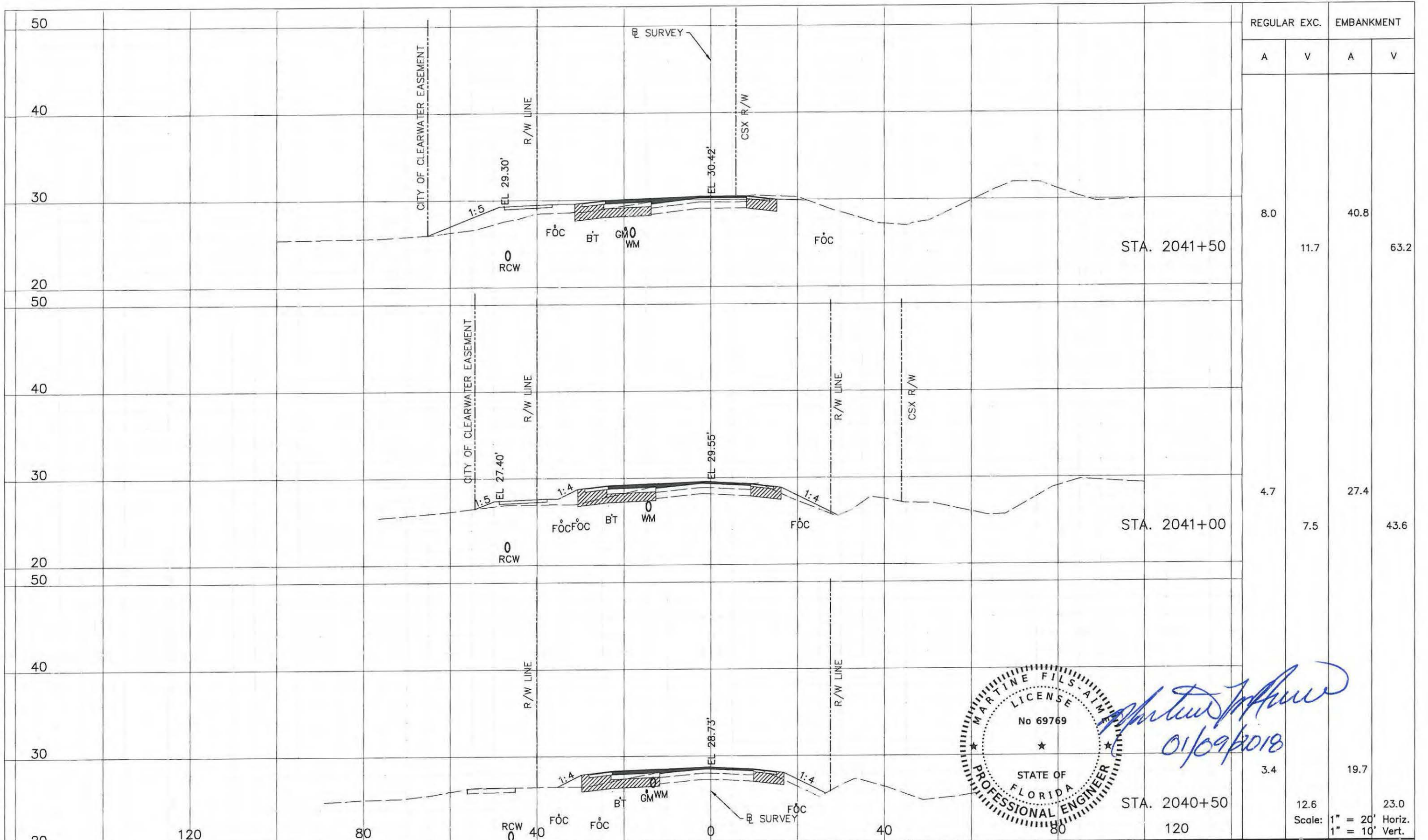
APPROVED BY: *Martine Fils-Aime*
DATE: 12/20/17

MARTINE FILS-AIME, P.E.
FLA. REG. NO 69769

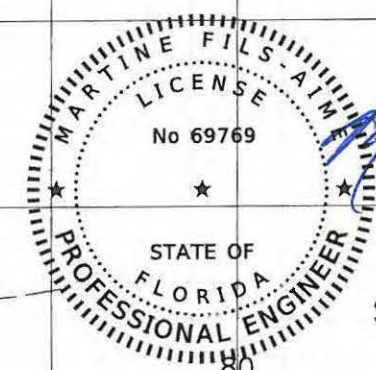
PROJECT NO: 001020A
SHEET: 27

Approved
2017-12-20
Brian Bennett
2/8/2018

T:\pinellas county projects\001020a - spo coachman road - spo coachman road\2.0 design\Plans\DWG\production\001020A-XS.dwg, Dec 20, 2017 - 2:24pm



REGULAR EXC.		EMBANKMENT	
A	V	A	V
8.0	11.7	40.8	63.2
4.7	7.5	27.4	43.6
3.4	12.6	19.7	23.0



Martine Fils-Aime
01/09/2018

REV. NO.	DATE	DESCRIPTION	REV. BY	CHECKED



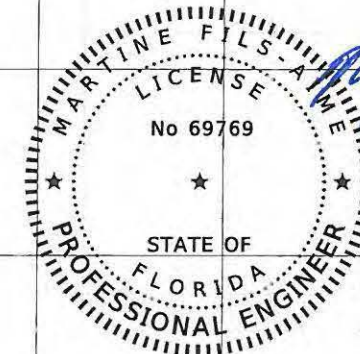
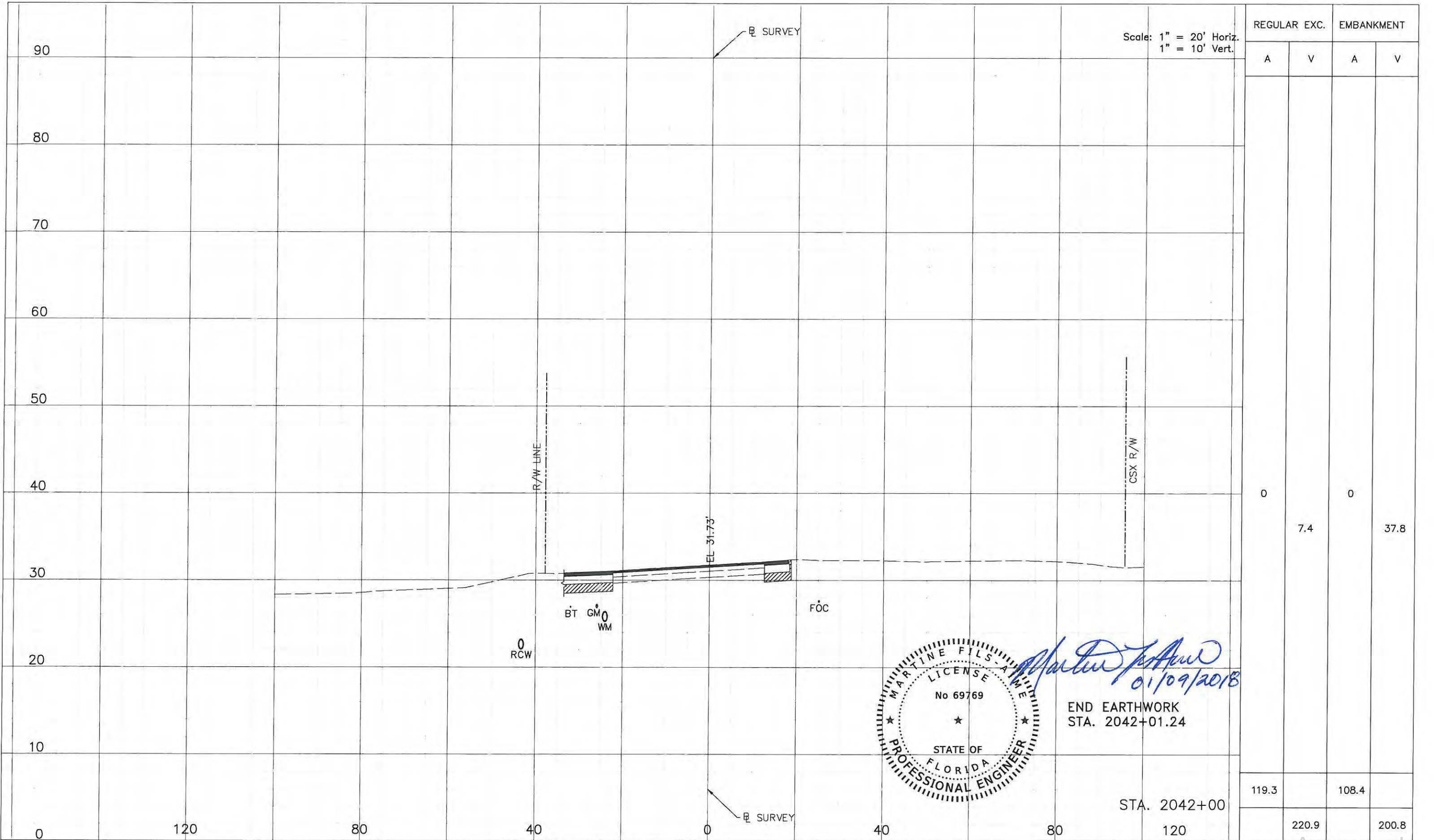
PROJECT: SR 590 (NE COACHMAN RD)
at CR 535 (OLD COACHMAN RD)

DESCRIPTION: CROSS SECTIONS

APPROVED BY: *Martine Fils-Aime*
DATE: 12/20/17
PROJECT NO. 001020A
SHEET: 28

Approved
2017-C-790-013
Brian Bennett
2/8/2018

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Martine Fils-Aime
01/09/2018

END EARTHWORK
STA. 2042+01.24

STA. 2042+00
120

REV. NO.	DATE	DESCRIPTION	REV. BY	CHECKED



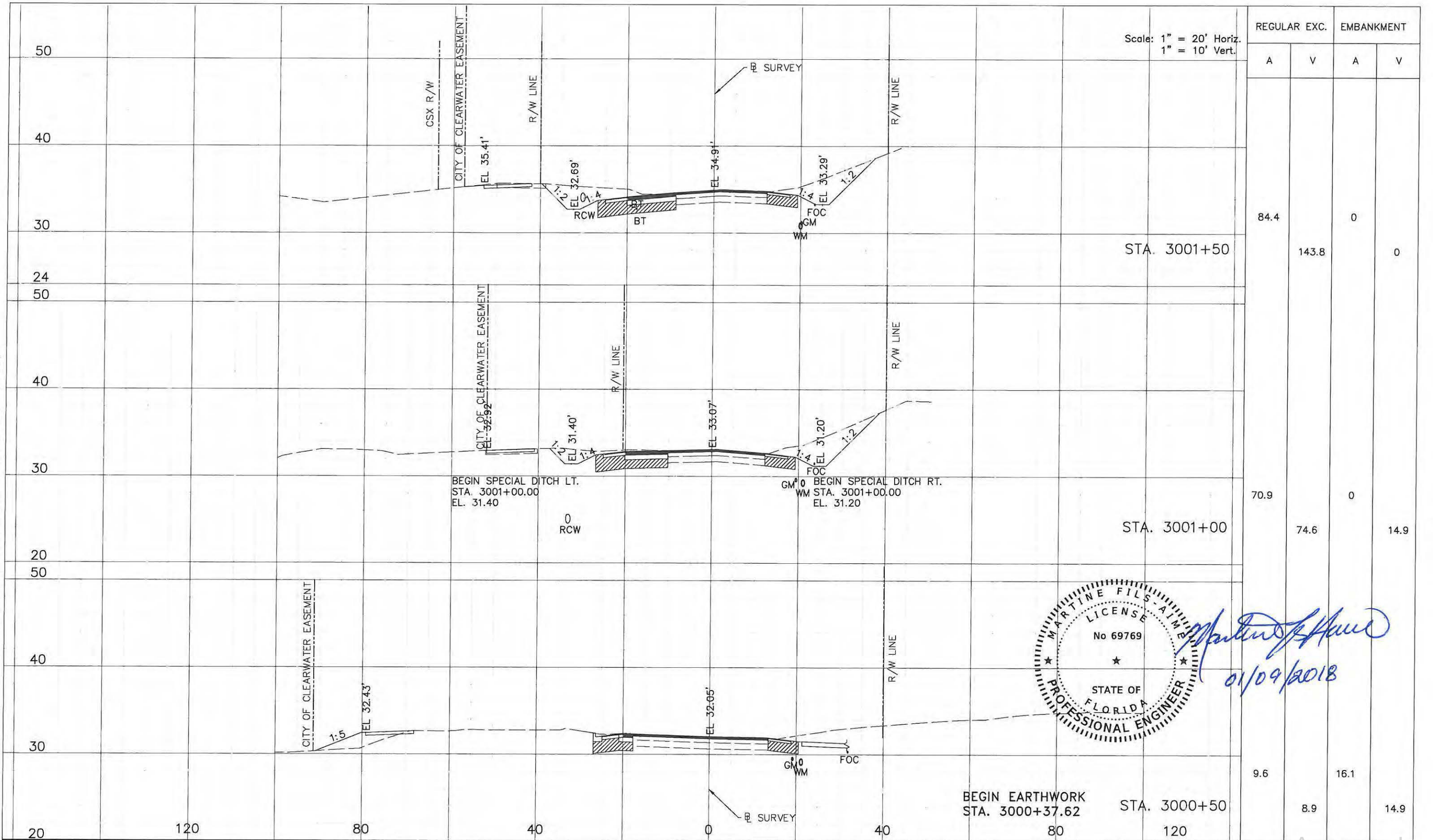
PROJECT: SR 590 (NE COACHMAN RD)
at CR 535 (OLD COACHMAN RD)

DESCRIPTION: CROSS SECTIONS

APPROVED BY: MARTINE FILS-AIME, P.E.
FLA. REG. NO 69769

DATE: 12/20/17
PROJECT NO: 001020A
SHEET: 29
Approved
2017-0799-013
Brian Bennett
2/8/2018

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LICENSE No 69769

 STATE OF FLORIDA

 PROFESSIONAL ENGINEER

Martine Fils-Aime
 01/09/2018

REV. NO.	DATE	DESCRIPTION	REV. BY	CHECKED



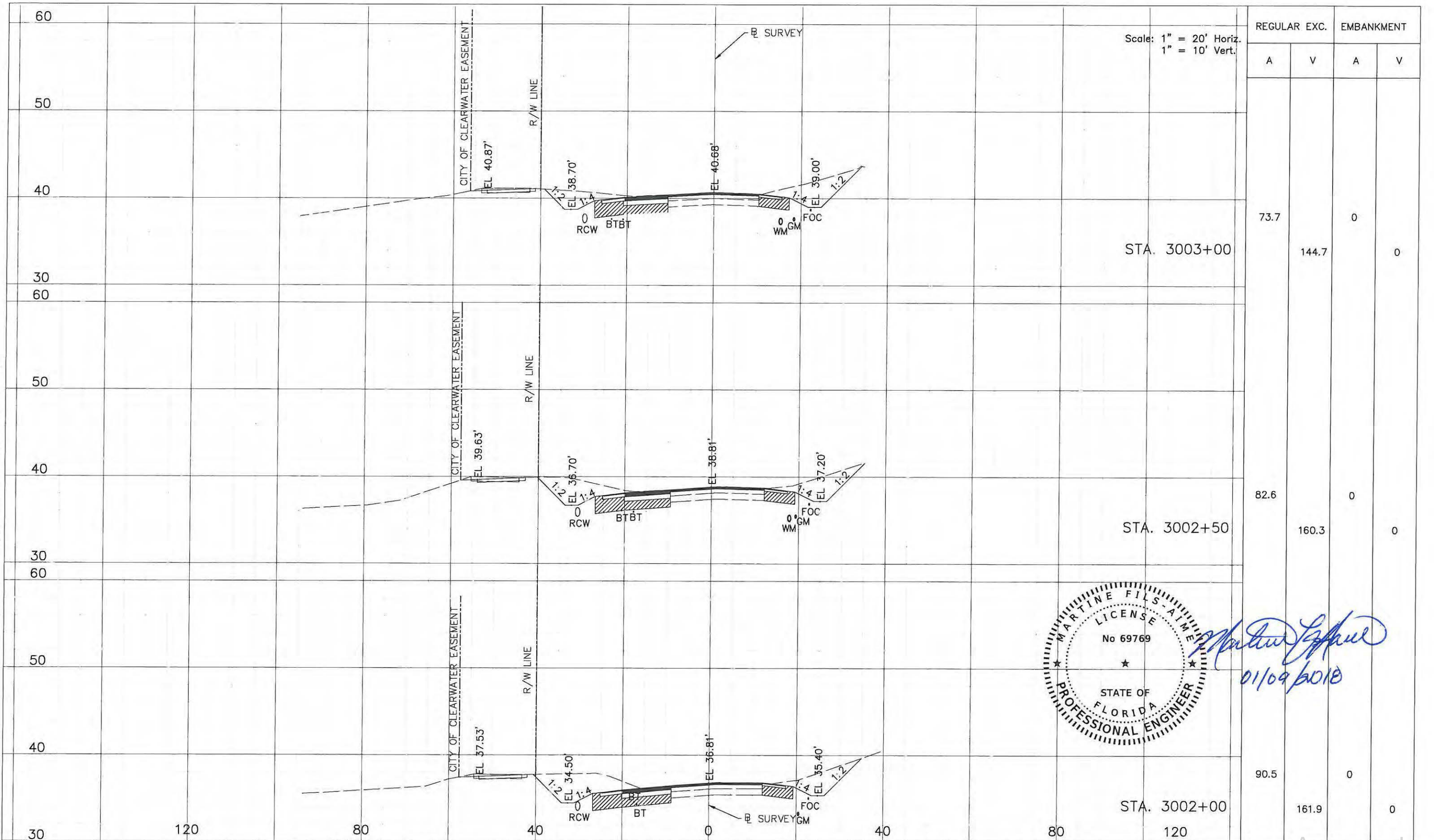
PROJECT: SR 590 (NE COACHMAN RD) at CR 535 (OLD COACHMAN RD)

DESCRIPTION: CROSS SECTIONS

APPROVED BY: *Martine Fils-Aime*
 DATE: 12/20/17
 PROJECT NO: 001020A
 SHEET: 30

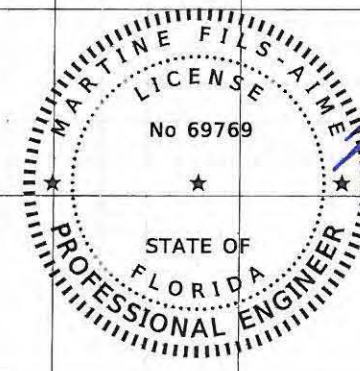
Approved
 2017-07-29-013
 Brian Bennett
 2/8/2018

T:\pinellas county\projects\001020a - spo coachman road\2.0 design\Plans\DWG\production\001020A-XS.dwg, Dec 20, 2017 - 2:24pm



Scale: 1" = 20' Horiz.
1" = 10' Vert.

REGULAR EXC.		EMBANKMENT	
A	V	A	V
73.7	144.7	0	0
82.6	160.3	0	0
90.5	161.9	0	0



Martine Fils-Aime
01/09/2018

REV. NO.	DATE	DESCRIPTION	REV. BY	CHECKED



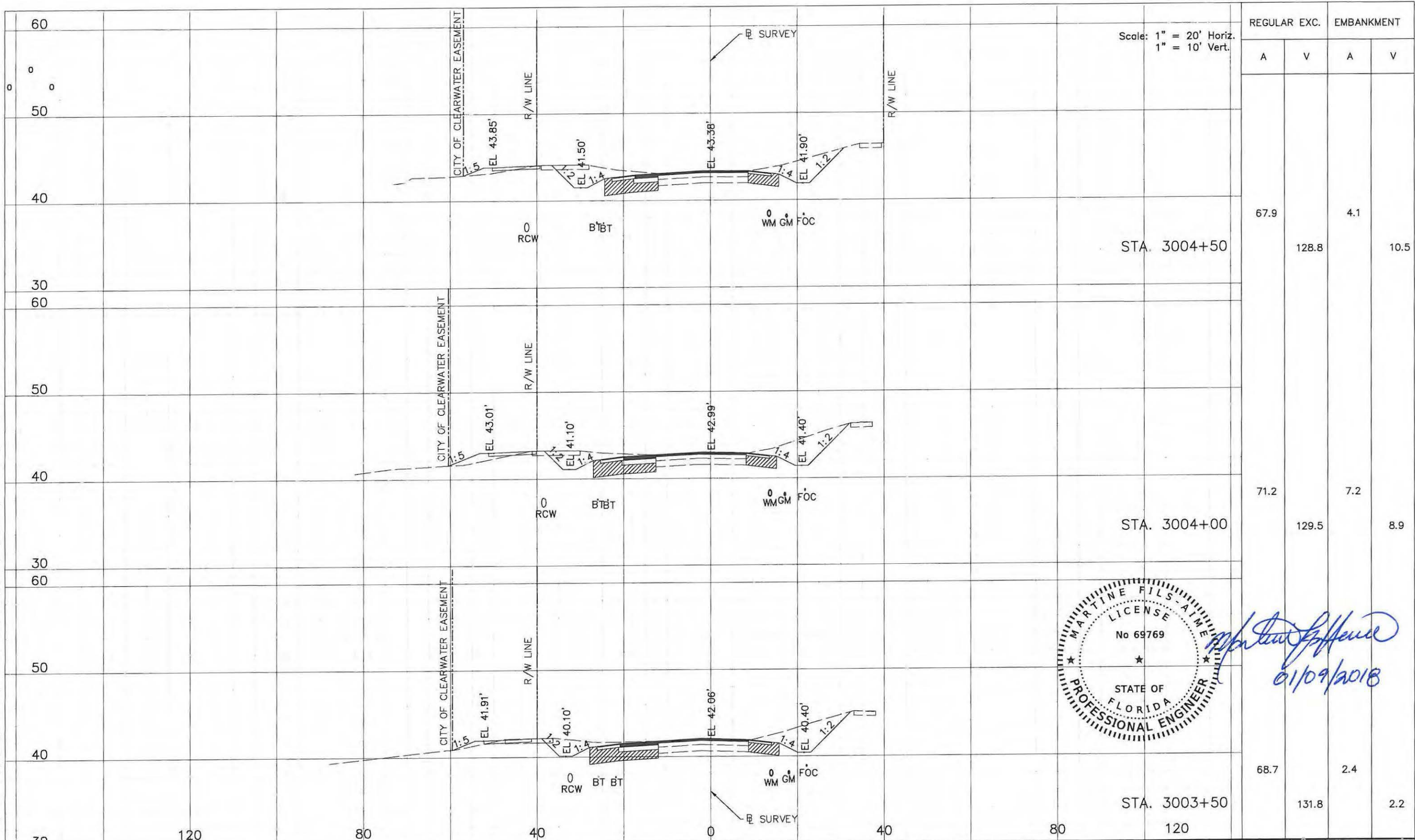
PROJECT: SR 590 (NE COACHMAN RD)
at CR 535 (OLD COACHMAN RD)

DESCRIPTION: CROSS SECTIONS

APPROVED BY: *Martine Fils-Aime*
DATE: 12/20/17
PROJECT NO: 001020A
SHEET: 31

Approved
2017-07-29-013
Bria Bennett
2/8/2018

T:\pinellas county projects\001020a - spo coachman road\2.0 design\Plans\DWG\production\001020A-XS.dwg, Dec 20, 2017 - 2:25pm



Scale: 1" = 20' Horiz.
1" = 10' Vert.

REGULAR	EXC.		EMBANKMENT	
	A	V	A	V
67.9		128.8	4.1	10.5
71.2		129.5	7.2	8.9
68.7		131.8	2.4	2.2



Martine Fils-Aime
01/09/2018

REV. NO.	DATE	DESCRIPTION	REV. BY	CHECKED



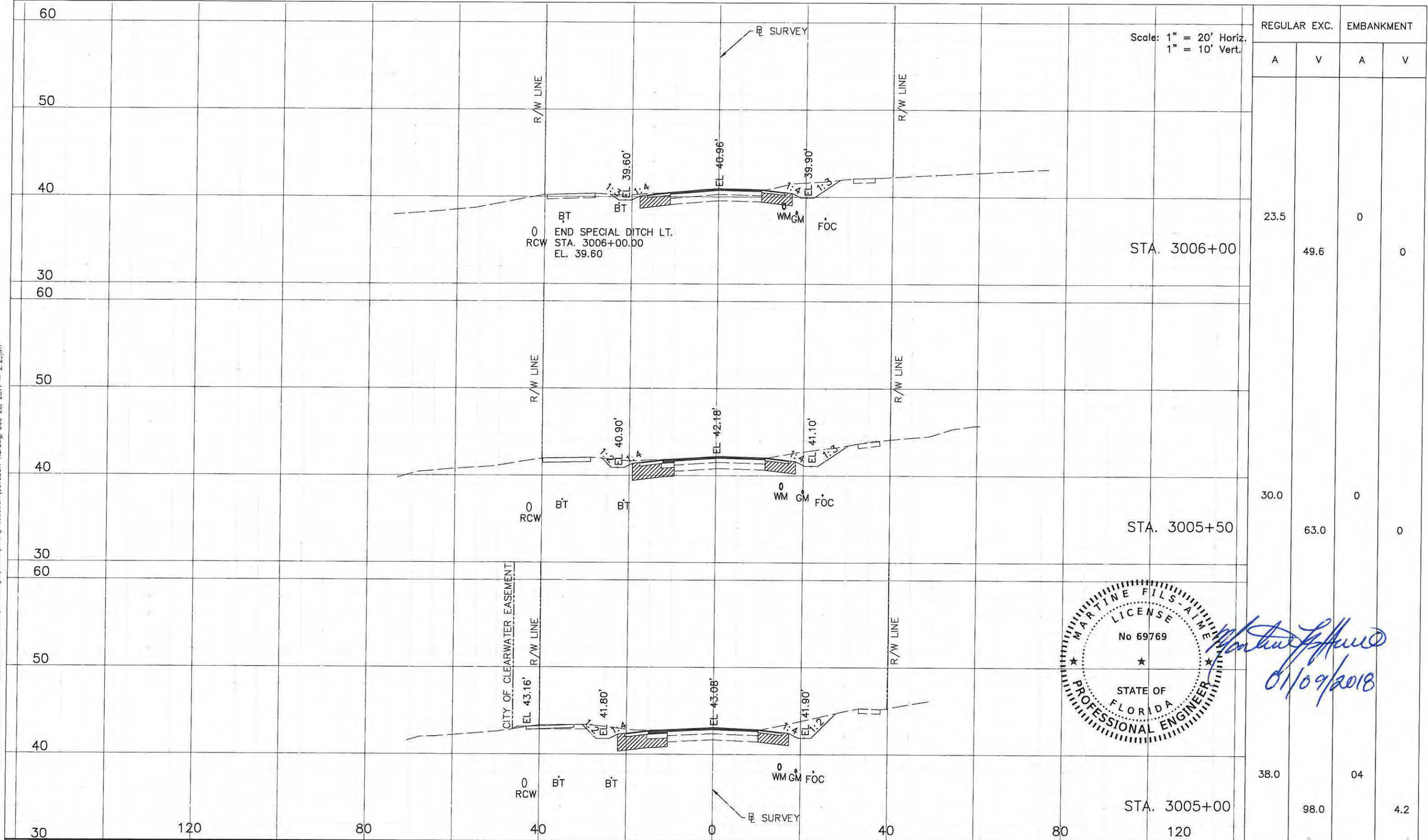
PROJECT: SR 590 (NE COACHMAN RD)
at CR 535 (OLD COACHMAN RD)

DESCRIPTION: CROSS SECTIONS

APPROVED BY: *Martine Fils-Aime*
DATE: 12/20/17
PROJECT NO. 001020A
SHEET: 32

Approved
2017-C-790-013
Brian Bennett
2/8/2018

T:\pinellas county projects\001020a - po coachman rd\2.0 design\Plans\DWG\production\001020A-XS.dwg, Dec 20, 2017 - 2:25pm



REGULAR EXC.		EMBANKMENT	
A	V	A	V
23.5	49.6	0	0
30.0	63.0	0	0
38.0	98.0	04	4.2



Martine Fils-Aime
01/09/2018

REV. NO.	DATE	DESCRIPTION	REV. BY	CHECKED



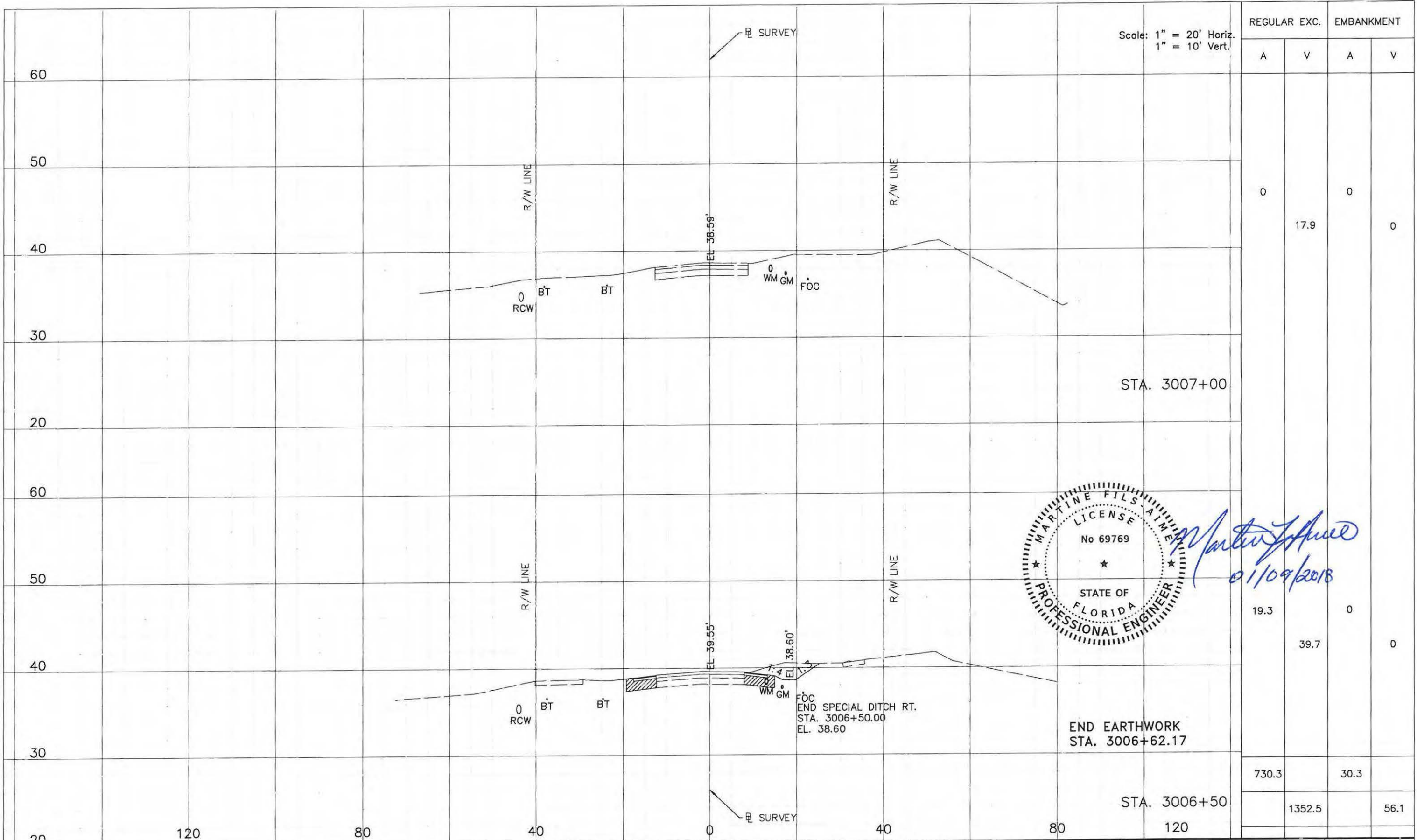
PROJECT: SR 590 (NE COACHMAN RD) at CR 535 (OLD COACHMAN RD)

DESCRIPTION: CROSS SECTIONS

APPROVED BY: *Martine Fils-Aime*
DATE: 12/20/17
PROJECT NO: 001020A
SHEET: 33

Approved
2017-07-13
Bria Bennett
2/8/2018

T:\pinellas county projects\001020a - spo coachman road\2.0 design\plans\dwg\production\001020a-xs.dwg, Dec 20, 2017 - 2:25pm



REGULAR EXC.		EMBANKMENT	
A	V	A	V
0	17.9	0	0
19.3	39.7	0	0
730.3		30.3	
	1352.5		56.1

REV. NO.	DATE	DESCRIPTION	REV. BY	CHECKED



PROJECT: SR 590 (NE COACHMAN RD)
at CR 535 (OLD COACHMAN RD)

DESCRIPTION: CROSS SECTIONS

APPROVED BY: *Martine Fils-Aime*
DATE: 12/20/17
PROJECT NO. 001020A
SHEET: 34

Approved
2017-C-790-013
Brian Bennett
2/8/2018

I:\pinellas county projects\001020a - spo coachman road\2.0 design\Plans\DWG\production\001020a-SMPPP.dwg, Nov 15, 2017 - 12:58pm

I. SITE DESCRIPTION

A. CONSTRUCTION ACTIVITY

ROADWAY INTERSECTION IMPROVEMENTS

B. PROJECT LIMITS

SEE PLAN SHEETS

C. PROJECT DESCRIPTION

PROPOSED ROADWAY INTERSECTION IMPROVEMENTS CONSISTING OF ROADWAY GEOMETRY CHANGED, PAVEMENT WIDENING, MILLING AND RESURFACING, AND DRAINAGE CONVEYANCE SYSTEM IMPROVEMENTS. THE EXISTING DRAINAGE PATTERN WILL REMAIN THE SAME AS IT IS IN EXISTING CONDITIONS.

D. MAJOR SOIL DISTURBING ACTIVITIES

CLEARING AND GRUBBING, MINOR GRADING, PLANTING AND SODDING.

E. TOTAL PROJECT AREA: 4.49 ACRES

TOTAL AREA TO BE DISTURBED: 4.49 ACRES

F. RUNOFF DATA

WEIGHTED RUNOFF COEFFICIENTS BEFORE Cw(B), DURING Cw(D) AND AFTER Cw(A) CONSTRUCTION:
 BEFORE Cw(B): 0.57
 DURING Cw(D): VARIES FROM 0.57 TO 0.65
 AFTER Cw(A): 0.65

G. SOIL DATA

ACCORDING TO THE NATURAL RESOURCE CONSERVATION SERVICE SOIL SURVEY OF PINELLAS COUNTY, FLORIDA WEB SOIL SURVEY, ONE (1) SOIL TYPE HAS BEEN IDENTIFIED AS BEING WITHIN THE PROJECT LIMITS OF THE INTERSECTION IMPROVEMENT PROJECT. THE SOIL TYPE IS MYAKKA SOILS AND URBAN LAND, CLASSIFIED AS NEARLY LEVEL, POORLY DRAINED SOILS WITH A SEASONAL HIGH GROUND WATER TABLE (SHGW) LEVEL THAT RANGES FROM 1.5 FEET BELOW TO 0.5 FEET BELOW THE NATURAL GROUND SURFACE. THE SEASONAL HIGH GROUND WATER TABLE IS DEFINED BY THE SCS AS THE HIGHEST LEVEL OF THE SATURATED ZONE IN THE SOIL IN A YEAR WITH NORMAL RAINFALL, WHICH PERSISTS IN THE SOIL FOR MORE THAN A FEW WEEKS.

H. DRAINAGE AREA

SEE DRAINAGE MAP

I. RECEIVING WATERS

ALLIGATOR CREEK WATERSHED

J. WETLANDS AREAS

NO WETLANDS PRESENT WITHIN THE PROJECT LIMITS

II. CONTROLS

ALL CONTROLS SHALL BE CONSISTENT WITH PERFORMANCE STANDARDS FOR EROSION AND SEDIMENT CONTROL AND STORM-WATER TREATMENT SET FORTH IN s.62-40.432, F.A.C., THE APPLICABLE STORM-WATER OR ENVIRONMENTAL RESOURCE PERMITTING REQUIREMENTS OF THE DEPARTMENT OR A WATER MANAGEMENT DISTRICT AND THE GUIDELINES CONTAINED IN THE FLORIDA DEVELOPMENT MANUAL: A GUIDE TO SOUND LAND AND WATER MANAGEMENT (DEP. 1988), AND ANY SUBSEQUENT AMENDMENTS.

A. SEQUENCE OF MAJOR ACTIVITIES

THE CONTRACTOR SHALL BE REQUIRED TO PREPARE A SITE SPECIFIC EROSION CONTROL PLAN ALONG WITH A DETAILED CONSTRUCTION SCHEDULE TO INDICATE DATES OF MAJOR GRADING ACTIVITIES AND DETERMINE SEQUENCES OF TEMPORARY AND PERMANENT SOIL DISTURBING ACTIVITIES ON ALL PORTIONS OF THE PROJECT. THE CONTRACTOR WILL BE REQUIRED TO MODIFY THE PLAN OR MATERIALS TO ADAPT TO SEASONAL VARIATIONS, CONSTRUCTION ACTIVITY VARIATIONS, OR AS DIRECTED BY THE COUNTY.

WHEN CONSTRUCTION ACTIVITY IS COMPLETE AND THE SITE IS STABILIZED, REMOVE EROSION PROTECTION DEVICES AND CONSTRUCTION ENTRANCE AS REQUIRED.

B. EROSION AND SEDIMENT CONTROL CONSTRUCTION ACTIVITIES

THE CONTRACTOR IS REQUIRED TO REVIEW THE SITE SPECIFIC EROSION CONTROL PLAN. THE CONTRACTOR MAY ALSO BE REQUIRED TO MODIFY THE PLAN OR MATERIALS TO ADAPT TO SEASONAL VARIATIONS OR SITE CONDITIONS. CONTRACTOR WILL COMPLY WITH E & S PLAN. ANY MODIFICATIONS TO THIS PLAN MUST BE SIGNED BY A PROFESSIONAL ENGINEER REPRESENTING THE CONTRACTOR. THE EROSION CONTROL DEVICES, DETAILS, AND NOTES APPLICABLE TO THESE ACTIVITIES ARE SPECIFIED IN THE PLANS. THE PROJECT ENGINEER IS RESPONSIBLE FOR DETERMINING IF ADDITIONAL CONTROLS ARE THE PROJECT ENGINEER MAY REQUIRE ADDITIONAL CONTROLS TO MEET STANDARDS AND REGULATIONS.

PERFORM DAILY INSPECTION OF EROSION AND SEDIMENT CONTROLS AFTER EVERY 1/2" RAINFALL

REMOVE ALL SEDIMENTS THAT HAVE MIGRATED OFF SITE AS DIRECTED BY THE ENGINEER

C. STABILIZATION PRACTICES

DURING CONSTRUCTION THE CONTRACTOR WILL PROVIDE STABILIZATION FOR AREAS WHICH HAVE BEEN CLEARED AND NOT REWORKED WITHIN FOURTEEN (14) CALENDAR DAYS. THE CONTRACTOR MAY UTILIZE TEMPORARY SEEDING OR TEMPORARY SODDING IN ACCORDANCE WITH SECTION 570 OF THE "FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION".

- _____ TEMPORARY SODDING
- _____ TEMPORARY GRASSING
- _____ PERMANENT SODDING OR SEEDING
- _____ PRESERVATION OF NATURAL RESOURCES
- _____ BUFFER ZONES

D. STRUCTURAL PRACTICES

- _____ SEDIMENT BARRIER (LF)
- _____ ARTIFICIAL COVERINGS/ ROLLED EROSION CONTROL PRODUCTS (SY)
- _____ INLET PROTECTION SYSTEM (EA)
- _____ LITTER REMOVAL AND DISPOSAL (AC)
- _____ MOWING (AC)
- _____ SLOPE DRAINS (TEMPORARY)/ RUNOFF CONTROL STRUCTURES (LF)
- _____ SOIL TRACKING PREVENTION DEVICE (EA)
- _____ SEDIMENT BASINS/CONTAINMENT SYSTEMS (EA)
- _____ SEDIMENT BASIN/ CONTAINMENT SYSTEM CLEANOUT (EA)
- _____ FLOATING TURBIDITY BARRIER (LF)
- _____ STAKED SILT FENCE (LF)
- _____ CHEMICAL TREATMENT - POWDERED (SY)
- _____ CHEMICAL TREATMENT (FLOC LOGS, DRUMS OF PRODUCT) (EA)
- _____ OTHER

E. DESCRIPTION OF STORM WATER MANAGEMENT

MAINTAIN EXISTING STORM WATER MANAGEMENT SYSTEM.

F. WASTE DISPOSAL

THE CONTRACTOR SHALL PROVIDE LITTER CONTROL AND COLLECTION WITHIN THE PROJECT BOUNDARIES DURING CONSTRUCTION ACTIVITIES. ANY CHEMICAL CONTAINERS SHALL BE DISPOSED OF BY THE CONTRACTOR ACCORDING TO EPA'S STANDARD PRACTICES AS DETAILED BY THE MANUFACTURER. NO SOLID MATERIALS INCLUDING BUILDING & CONSTRUCTION MATERIALS SHALL BE DISCHARGED TO WETLANDS OR BURIED ON SITE. ALL WASTE MATERIAL WILL BE COLLECTED AND STORED IN DUMPSTERS PER LOCAL SOLID WASTE REGULATIONS. ALL TRASH AND CONSTRUCTION DEBRIS FROM THE SITE WILL BE DEPOSITED IN THE DUMPSTER. THE DUMPSTER WILL BE EMPTIED A MINIMUM OF TWICE A WEEK OR MORE OFTEN IF NECESSARY, AND THE TRASH WILL BE HAULED TO THE APPROPRIATE COUNTY LOCATION FOR DUMPING.

G. OFFSITE VEHICLE TRACKING

STABILIZED CONSTRUCTION ENTRANCES SHALL BE PROVIDED TO HELP REDUCE VEHICLE TRACKING OF SEDIMENTS. THE PAVED STREETS WILL BE CLEANED AS DIRECTED BY THE CONSTRUCTION INSPECTOR AND ENGINEER TO REMOVE ANY EXCESS MUD, DIRT OR ROCK TRACKED FROM THE SITE. DUMP TRUCKS HAULING MATERIAL FROM OR TO THE SITE WILL BE COVERED WITH A TARPAULIN AT ALL TIMES.

H. SANITARY WASTE

FDOT STANDARD SPEC. FOR ROAD AND BRIDGE CONSTRUCTION" SECTION 7 - 6 "SANITARY PROVISIONS. "THE CONTRACTOR SHALL PROVIDE AND MAINTAIN, IN A NEAT AND SANITARY CONDITION, SUCH ACCOMMODATION FOR THE USE OF HIS EMPLOYEES AS ARE NECESSARY TO COMPLY WITH THE REQUIREMENTS AND REGULATIONS OF THE STATE AND LOCAL BOARDS OF HEALTH. COMMIT NO PUBLIC NUISANCE."

I. HAZARDOUS WASTE

THE CONTRACTOR WILL IMMEDIATELY NOTIFY THE COUNTY IN WRITING IF ANY HAZARDOUS WASTE MATERIAL IS ENCOUNTERED DURING SITE INVESTIGATION OR CONSTRUCTION.

THE CONTRACTOR WILL ALSO BE RESPONSIBLE FOR NOTIFYING THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION (FDEP) WITHIN 24 HOURS OF THE DISCOVERY.

ALL HAZARDOUS WASTE MATERIALS, IF ENCOUNTERED, WILL BE DISPOSED OF IN THE MANNER SPECIFIED BY LOCAL, STATE, AND FEDERAL REGULATIONS. THE CONTRACTOR WILL BE RESPONSIBLE FOR SEEING THAT THESE PRACTICES ARE FOLLOWED.

IN CASE OF DISPOSING ANY HAZARDOUS WASTE MATERIAL FOLLOWING LOCAL, STATE, AND FEDERAL REGULATIONS, A COPY OF DISPOSAL MANIFEST HAS TO BE PROVIDED TO THE COUNTY IN TIMELY FASHION.

PERMITTEE CERTIFICATION

I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHERED AND EVALUATED THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.

IVAN J. FERNANDEZ, P.E., STAFF DIRECTOR

DATE _____

TECHNICAL SERVICES, PINELLAS COUNTY PUBLIC WORKS, APPLICANT-AUTHORIZED AGENT FOR THE PINELLAS COUNTY BOARD OF COUNTY COMMISSIONER.

CONTRACTOR CERTIFICATION

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

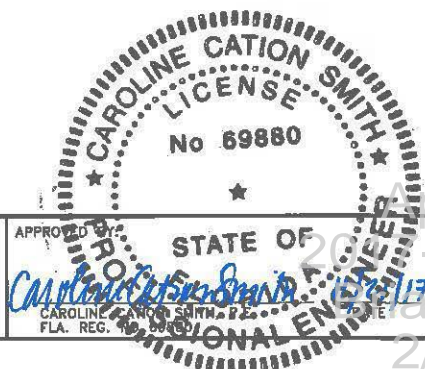
GENERAL CONTRACTOR NAME & TITLE _____



DATE _____

COMPANY NAME _____

COMPANY STREET ADDRESS _____

CITY, STATE, ZIP CODE _____



REV. NO.	DATE	DESCRIPTION	REV. BY	DESIGNED _____		PROJECT: SR 590 (NE COACHMAN RD) at CR 535 (OLD COACHMAN RD)	DESCRIPTION: STORMWATER POLLUTION PREVENTION PLAN	APPROVED BY: 	DATE: 11/15/17
				DRAWN _____					PROJECT NO. 001020A
				CHECKED _____					SHEET: 35

Approved
 11/15/17
 2/8/2018

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J. WATER QUALITY MONITORING (MIXING ZONES)

THE WATER THAT WILL BE SAMPLED FOR STATE WATER QUALITY STANDARDS FOR CONSTRUCTION ACTIVITIES PROHIBIT A TURBIDITY INCREASE OF GREATER THAN 29 NTU'S ABOVE AMBIENT CONDITIONS AT THE COMPLIANCE LOCATION OF THE MIXING ZONES. TO MAINTAIN THIS STANDARD, TURBIDITY MONITORING SHALL OCCUR DURING ALL IN-WATER CONSTRUCTION ACTIVITIES AT EACH COMPLIANCE AND BACKGROUND STATION. THE FOLLOWING PROCEDURE SHALL BE USED:

FREQUENCY: TWICE A DAY, AT LEAST 4 HOURS APART DURING FREQUENCY OF ACTUAL CONSTRUCTION OPERATIONS.

LOCATIONS: ALL STATIONS SHALL BE SAMPLED AT 2 FEET ABOVE LOCATIONS THE BOTTOM, AT MID-DEPTH, AND AT THE SURFACE, OR AS DIRECTED BY PERMITTING AGENCIES. IF WATER IS LESS THAN THREE FEET DEEP, ONLY MID-DEPTH SAMPLES ARE REQUIRED.

BACKGROUND: 500 FEET UP-CURRENT FROM THE CONSTRUCTION BACKGROUND ACTIVITY AND OUTSIDE OF ANY TURBIDITY PLUME FROM THE CONSTRUCTION ACTIVITY.

COMPLIANCE: 300 FEET DOWN CURRENT FROM THE CONSTRUCTION COMPLIANCE ACTIVITY WITHIN ANY VISIBLE TURBIDITY PLUME, OR AS DIRECTED BY PERMITTING AGENCIES.

METHOD: ALL SAMPLES SHALL BE COLLECTED WITH A KEMMERER, VAN DORN METHOD, OR SIMILAR SAMPLER WHICH IS DESIGNED TO COLLECT IN SITU WATER SAMPLES.

REPORTING: ALL MONITORING DATA SHALL BE SUBMITTED WITHIN ONE REPORTING WEEK OF ANALYSIS WITH DOCUMENTS CONTAINING THE FOLLOWING INFORMATION:

1. PERMIT NUMBER
2. DATES OF SAMPLING AND ANALYSIS
3. LOCATION OF SAMPLE (I.E., STATION AND WATER COLUMN LOCATION)
4. A STATEMENT DESCRIBING THE METHODS USED IN COLLECTION, HANDLING, STORAGE, AND ANALYSIS OF THE SAMPLES
5. A MAP INDICATING THE SAMPLING LOCATIONS
6. STATEMENT, BY THE INDIVIDUAL RESPONSIBLE FOR IMPLEMENTATION OF THE SAMPLING PROGRAM, CONCERNING THE AUTHENTICITY, PRECISION, LIMITS OF DETECTION AND ACCURACY OF DATA.

MONITORING REPORTS SHALL INCLUDE INFORMATION ON THE GENERAL ANTECEDENT WEATHER CONDITIONS.

IF MONITORING REVEALS VIOLATIONS OF THE STATE WATER QUALITY STANDARD FOR TURBIDITY, CONSTRUCTION ACTIVITIES SHALL CEASE IMMEDIATELY AND NOT RESUME UNTIL CORRECTIVE MEASURES HAVE BEEN TAKEN AND TURBIDITY HAS RETURNED TO ACCEPTABLE LEVELS. ANY SUCH OCCURRENCE SHALL ALSO BE IMMEDIATELY REPORTED TO THE REGULATORY AGENCIES. IN THE EVENT THAT STATE WATER QUALITY STANDARDS ARE NOT ATTAINED, THE CONTRACTOR SHALL IMPLEMENT A CONTINGENCY PLAN WHICH COMPLIES WITH THE PROJECT SWFWMD/FDEP ERP AND PINELLAS COUNTY NPDES REQUIREMENTS AT NO ADDITIONAL COST TO THE COUNTY. ANY FINES SHALL BE RESPONSIBILITY OF THE CONTRACTORS.

K. APPROVED STATE, LOCAL PLANS, OR STORM WATER PERMITS
NONE AT THE TIME OF PERMITTING

III. MAINTENANCE

A. ALL OF THE CONTROLS SHALL BE MAINTAINED AT ALL TIMES.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR DAILY INSPECTION AND MAINTENANCE OF ALL PERMANENT AND TEMPORARY EROSION CONTROL DEVICES THROUGHOUT ALL CONSTRUCTION PHASES OF THE PROJECT. MAINTENANCE SHALL BE IN ACCORDANCE WITH PINELLAS COUNTY D.E.I. "STANDARD TECHNICAL SPECIFICATIONS FOR ROADWAY AND RELATED CONSTRUCTION", AND THE PROJECT CONSTRUCTION CONTRACT.

B. INSPECTION

THE COUNTY INSPECTOR SHALL BE RESPONSIBLE FOR COMPLETING THE PINELLAS COUNTY D.E.I. NPDES / SWPPP CONSTRUCTION INSPECTION REPORT AFTER ANY 1/2" RAINFALL OR WEEKLY, IF NO RAIN EVENT OCCURRED. IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN RAIN GAUGES ON THE PROJECT SITE AND RECORD WEEKLY RAIN FALL. THE COUNTY INSPECTOR SHALL ALSO COMPLETE THE PINELLAS COUNTY D.E.I. NPDES COMPLIANCE CHECKLIST FOR CONSTRUCTION SITES.

C. NON-STORM WATER DISCHARGES

IT IS EXPECTED THAT THE FOLLOWING NON-STORM WATER DISCHARGES MAY OCCUR FROM THE SITE DURING THE CONSTRUCTION PERIOD:

- WATER FROM WATER LINE FLUSHING
- PAVEMENT WASH WATERS (WHERE NO SPILL OR LEAKS OF VEHICLE AND HAZARDOUS MATERIALS HAVE OCCURRED)
- UNCONTAMINATED GROUNDWATER FROM DE-WATERING ACTIVITIES

ALL NON-STORM WATER DISCHARGES WILL BE DIRECTED TO THE SEDIMENT BASIN PRIOR TO DISCHARGE OR AS DIRECTED BY THE ENGINEER. IF CONTAMINATED SOIL OR GROUNDWATER IS ENCOUNTERED, DEATERING SHOULD CEASE IMMEDIATELY AND THE ENGINEER WILL BE CONTACTED.

A. MATERIAL MANAGEMENT PRACTICES

THE FOLLOWING ARE THE MATERIAL HANDLING PRACTICES THAT WILL BE USED TO REDUCE THE RISK OF SPILLS OR OTHER ACCIDENTAL EXPOSURE OF MATERIALS AND SUBSTANCES TO STORM WATER RUNOFF:

1. THE FOLLOWING GOOD HOUSEKEEPING PRACTICES SHALL BE FOLLOWED ON-SITE DURING THE CONSTRUCTION PROJECT.

- STORE ONLY ENOUGH PRODUCT REQUIRED TO DO THE JOB ON SITE.
- ALL MATERIALS STORED ON SITE SHALL BE STORED IN A NEAT, ORDERLY MANNER IN THEIR ORIGINAL MANUFACTURER'S LABELED CONTAINERS UNDER A ROOF OR OTHER CONTAINED ENCLOSURE.
- SUBSTANCES SHALL NOT BE MIXED WITH ONE ANOTHER UNLESS RECOMMENDED BY THE MANUFACTURER.
- WHENEVER POSSIBLE, ALL OF A PRODUCT SHALL BE USED BEFORE DISPOSING OF THE CONTAINER. MANUFACTURERS' RECOMMENDATIONS FOR PROPER USE AND DISPOSAL SHALL BE FOLLOWED.
- THE SITE SUPERINTENDENT SHALL INSPECT DAILY TO ENSURE PROPER USE AND DISPOSAL OF MATERIALS ON-SITE.

2. THESE PRACTICES ARE USED TO REDUCE THE RISKS ASSOCIATED WITH HAZARDOUS MATERIALS.

- PRODUCTS WILL BE KEPT IN ORIGINAL CONTAINERS UNLESS THEY ARE NOT RE-SEALABLE.
- SECONDARY CONTAINMENT SHALL BE PROVIDED FOR ALL OPENED CONTAINERS. ORIGINAL LABELS AND MATERIAL SAFETY DATA SHALL BE KEPT ON-SITE ON THE CONSTRUCTION OFFICE TRAILER.
- IF SURPLUS PRODUCT MUST BE DISPOSED OF, MANUFACTURERS OR LOCAL STATE RECOMMENDED METHODS OF PROPER DISPOSAL SHALL BE FOLLOWED.
- THE CONTRACTOR MUST IDENTIFY A DESIGNATED FUEL TANK STORAGE AREA, AWAY FROM DRAINAGE STRUCTURES, PONDS, BASINS, AND WETLANDS, WITH SECONDARY CONTAINMENT (SPILL COLLECTION).

3. CONCRETE TRUCKS

- CONTRACTOR SHALL DESIGNATE AN AREA AWAY FROM DRAINAGE STRUCTURES, PONDS, BASINS, AND WETLANDS FOR DISCHARGE OF SURPLUS CONCRETE OR DRUM WASH WATER AND SHALL INSTALL A CONTAINMENT BERM AROUND THIS AREA TO PREVENT RUNOFF TO THE REMAINDER OF THE SITE.
- HARD DEBRIS SHALL BE DISPOSED OF BY CONTRACTOR UPON COMPLETION OF THE PROJECT.
- DISPOSAL OF CONCRETE SLURRY DIRECTLY INTO PUBLIC DRAINAGE SYSTEMS IS A VIOLATION OF THE "ILLCIT DISCHARGE" PROVISION OF THE PINELLAS COUNTY LAND DEVELOPMENT CODE. SECTION 58-239 OF THE PINELLAS COUNTY CODE AUTHORIZES PENALTIES OF UP TO \$10,000.00 FOR EACH OFFENSE.

4. SPILL CONTROL PRACTICES

IN ADDITION TO THE GOOD HOUSEKEEPING AND MATERIALS MANAGEMENT PRACTICES DISCUSSED IN THE PREVIOUS SECTIONS OF THIS PLAN, THE FOLLOWING PRACTICES WILL BE FOLLOWED FOR SPILL PREVENTION AND CLEANUP.

- MANUFACTURERS' RECOMMENDED METHODS FOR SPILL CLEANUP WILL BE CLEARLY POSTED AND SITE PERSONNEL WILL BE MADE AWARE OF THE PROCEDURES AND THE LOCATION OF THE INFORMATION CLEANUP SUPPLIES.
- ALL SPILLS WILL BE CLEANED UP IMMEDIATELY AFTER DISCOVERY.

- THE SPILL AREA WILL BE KEPT WELL VENTILATED AND PERSONNEL WILL WEAR APPROPRIATE PROTECTIVE CLOTHING TO PREVENT INJURY FROM CONTACT WITH A HAZARDOUS SUBSTANCE.

- SPILLS OF TOXIC OR HAZARDOUS MATERIAL WILL BE REPORTED TO THE APPROPRIATE STATE OR LOCAL GOVERNMENT AGENCY, REGARDLESS OF THE SIZE.

- THE SPILL PREVENTION PLAN WILL BE PREPARED BY THE CONTRACTOR AND KEPT IN THE CONSTRUCTION OFFICE TRAILER AND WILL INCLUDE MEASURES TO PREVENT THIS TYPE OF SPILL FROM REOCCURRING AND HOW TO CLEAN UP THE SPILL IF THERE ARE OTHERS. A DESCRIPTION OF THE SPILL, WHAT CAUSED IT, AND THE CLEANUP MEASURES WILL ALSO BE INCLUDED. ALL SPILLS AND RESPONSES WILL BE REPORTED TO THE APPROPRIATE AGENCY.

- THE SITE SUPERINTENDENT WILL BE THE SPILL PREVENTION AND CLEANUP COORDINATOR. HE WILL DESIGNATE OTHER SITE PERSONNEL WHO WILL RECEIVE SPILL PREVENTION AND CLEANUP TRAINING. THESE INDIVIDUALS WILL EACH BECOME RESPONSIBLE FOR A PARTICULAR PHASE OF PREVENTION AND CLEANUP. THE NAMES OF RESPONSIBLE SPILL PERSONNEL WILL BE POSTED IN THE MATERIAL STORAGE AREA AND IN THE OFFICE TRAILER ON SITE.

- USE AND CHARACTERISTICS OF FUEL OR CHEMICAL STORAGE TANK ON SITE SHALL COMPLY WITH ALL RELATED FEDERAL, STATE, AND LOCAL REGULATIONS. STORAGE TANKS MUST BE LOCATED AS FAR AS POSSIBLE FROM ANY DRAINAGE STRUCTURES, DITCHES, AND/OR SURFACE WATERS. IN ADDITION, THE CONTRACTOR MUST PROVIDE A SECONDARY CONTAINMENT WITH A LINER CHEMICALLY RESISTANT TO THE FUEL OR CHEMICAL STORED ON SITE. THE SECONDARY CONTAINMENT MUST BE SIZED TO CONTAIN MINIMUM OF ONE AND A HALF TIME THE TOTAL CAPACITY OF STORAGE TANK BEING USED. CONTRACTOR HAS TO PROVIDE A DAILY INSPECTION LOG FOR THE SECONDARY CONTAINMENT WITH INDICATION OF DATE, INSPECTORS NAME AND INSPECTION REPORT. FURTHERMORE, ANY CONTAMINATION HAS TO BE IMMEDIATELY CONTAINED AND THE COUNTY INSPECTOR MUST BE NOTIFIED OF THE NATURE AND EXTEND OF THE CONTAMINATION.

PERMITEE CERTIFICATION

I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHERED AND EVALUATED THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.

IVAN J. FERNANDEZ, P.E., MANAGER DATE
ENGINEERING SERVICES, PLANNING AND DESIGN DIVISION, PUBLIC WORKS, PINELLAS COUNTY,
APPLICANT-AUTHORIZED AGENT FOR THE PINELLAS COUNTY BOARD OF COUNTY COMMISSIONERS.

CONTRACTOR CERTIFICATION

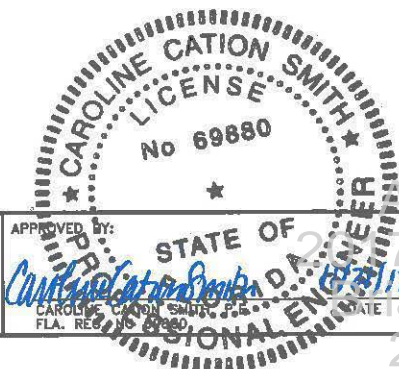
I CERTIFY UNDER PENALTY OF LAW THAT I UNDERSTAND, AND SHALL COMPLY WITH, THE TERMS AND CONDITIONS OF THE STATE OF FLORIDA GENERIC PERMIT FOR STORMWATER DISCHARGE FROM LARGE AND SMALL CONSTRUCTION ACTIVITIES AND THIS STORMWATER POLLUTION PREVENTION PLAN PREPARED THEREUNDER.

GENERAL CONTRACTOR NAME & TITLE DATE

COMPANY NAME

COMPANY STREET ADDRESS

CITY, STATE, ZIP CODE



DESIGNED _____		PROJECT: SR 590 (NE COACHMAN RD) at CR 535 (OLD COACHMAN RD)	DESCRIPTION: STORMWATER POLLUTION PREVENTION PLAN	APPROVED BY: <i>Caroline Cation Smith</i> CAROLINE CATION SMITH, P.E. FLA. REG. NO. 69880	DATE: 11/15/17
DRAWN _____					PROJECT NO. 001020A
CHECKED _____					
REV. NO.	DATE	DESCRIPTION	REV. BY	CHECKED	

Approved
2/8/2018

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1. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO CONTROL AND PREVENT EROSION AND THE TRANSPORTATION OF SEDIMENT TO SURFACE DRAINS AND OUTFALLS USING BEST MANAGEMENT PRACTICES. REFER TO CONSTRUCTION PLANS, DETAILS, SPECIFICATIONS AND APPROVED PERMITS FOR DETAILS. SEDIMENT DEPOSITS SHALL BE REMOVED WHEN THEY REACH ONE HALF THE HEIGHT ON AN EROSION DEVICE OR AS DIRECTED BY THE ENGINEER.
2. DURING THE CONSTRUCTION OF DRAINAGE STRUCTURES, AND OTHER STRUCTURES REQUIRING EXCAVATION, THE CONTRACTOR SHALL PLACE APPROVED BARRIERS OR OTHER APPROVED DEVICES AROUND SUCH STRUCTURES TO PREVENT EROSION AND THE MIGRATION OF SEDIMENT TO POINTS OUTSIDE THE CONSTRUCTION AREA. THE APPROVED BARRIERS OR OTHER APPROVED DEVICES SHALL BE PLACED IN ACCORDANCE WITH REQUIREMENTS OF FLORIDA STORMWATER EROSION AND SEDIMENTATION CONTROL INSPECTOR'S MANUAL, 2008, STATE OF FLORIDA EROSION AND SEDIMENT CONTROL DESIGNER AND REVIEWER MANUAL, LATEST EDITION OR AS DIRECTED BY THE ENGINEER.
3. REQUIRED EROSION CONTROL MEASURES MUST REMAIN INTACT THROUGHOUT CONSTRUCTION. FAILURE TO INSTALL OR PROPERLY MAINTAIN REQUIRED EROSION CONTROL WILL RESULT IN ENFORCEMENT ACTION. ALL EROSION CONTROL MEASURES, SAND, SILT, AND DEBRIS SHALL BE REMOVED FROM ALL DRAINAGE PIPES AND STRUCTURES AFTER CONSTRUCTION HAS BEEN COMPLETED AND PRIOR TO COUNTY FINAL WALK-THROUGH.
4. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN SILT/TURBIDITY BARRIERS TO CONTROL EROSION AND SEDIMENT FROM TAKING PLACE OUTSIDE THE PROJECT LIMITS. THE SILT/TURBIDITY BARRIERS SHALL BE PLACED IN ACCORDANCE WITH REQUIREMENTS OF FLORIDA STORMWATER EROSION AND SEDIMENTATION CONTROL INSPECTOR'S MANUAL, 2008, STATE OF FLORIDA EROSION AND SEDIMENT CONTROL DESIGNER AND REVIEWER MANUAL, LATEST EDITION AND "PINELLAS COUNTY STANDARD TECHNICAL SPECIFICATIONS FOR ROADWAY RELATED CONSTRUCTION" SECTION 104, THROUGHOUT THE DURATION OF THE PROJECT AND ALL ASPECTS OF CONSTRUCTION. ALL DAMAGED OR INEFFECTIVE EROSION CONTROL DEVICES SHALL BE REPLACED AT NO ADDITIONAL COST TO THE COUNTY.
5. EROSION CONTROL PLAN - ANY MODIFICATIONS TO THIS PLAN MUST BE SIGNED AND SEALED BY A PROFESSIONAL ENGINEER REPRESENTING THE CONTRACTOR. THESE MODIFICATIONS MUST BE APPROVED BY THE COUNTY AND THE PERMITTING AGENCY. NO CONTRACT DELAYS WILL BE ALLOWED FOR SUCH MODIFICATIONS OR APPROVALS.
6. OUTFALL PROTECTION - PROJECT PIPE OR DITCH DISCHARGES INTO OFF-SITE OUTFALLS SHALL BE INSPECTED DAILY FOR POSSIBLE SEDIMENT BUILDUP OR TRANSPORT. OUTFALLS SHALL BE PROTECTED THROUGH USE OF EROSION CONTROL FEATURES AS NECESSARY TO CONTAIN ANY SEDIMENT LOSS TO THE IMMEDIATE AREA OF THE PROJECT. ANY SEDIMENT BUILDUP OR TRANSPORT OFF-SITE SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REMEDY. THE CONTRACTOR SHALL USE APPROPRIATE MEASURES AS DIRECTED BY THE PROJECT ENGINEER FOR OUTFALL PROTECTION.
7. APPROVED BARRIERS (OR OTHER APPROVED SEDIMENT CONTROL DEVICES) - THESE SHALL BE PLACED AT THE BASE OF ANY SLOPE WHERE A RAINFALL EVENT COULD ERODE A SLOPE AND TRANSPORT SEDIMENTS OFF-SITE. APPROVED BARRIERS SHALL BE DOUBLE STAKED IN ACCORDANCE WITH FLORIDA STORMWATER EROSION AND SEDIMENTATION CONTROL INSPECTOR'S MANUAL, 2008, AND STATE OF FLORIDA EROSION AND SEDIMENT CONTROL DESIGNER AND REVIEWER MANUAL, LATEST EDITION. ANY DAMAGED OR INEFFECTIVE APPROVED BARRIERS ARE TO BE REPLACED WITH NEW ONES. THE LOCATION AND INSTALLATION OF APPROVED BARRIERS SHALL BE AS DIRECTED BY THE PROJECT ENGINEER.
8. BACK OF SIDEWALK INLETS OR MEDIAN INLETS - THESE SHALL BE PROTECTED FROM SEDIMENT INTAKE UNTIL PROJECT IS COMPLETE. ELEVATION OF GROUND OUTSIDE INLET TOP SHALL NOT BE HIGHER THAN INLET TOP WITHOUT EROSION PROTECTION. APPROVED BARRIERS OR OTHER APPROVED SEDIMENT CONTROL DEVICES SHALL BE INSTALLED AROUND INLET TOP. A SECOND ROW OF APPROVED BARRIERS OR OTHER APPROVED SEDIMENT CONTROL DEVICES SHALL BE PLACED AROUND INLET APPROXIMATELY 24" OUTSIDE FIRST ROW. BETWEEN ROWS THERE SHALL BE A DEPRESSION TO ACT AS A SEDIMENT BASIN. COMPLETED INLETS IN PAVED AREAS SHALL ALSO BE PROTECTED WITH A SINGLE LINE OF APPROVED BARRIERS OR OTHER APPROVED SEDIMENT CONTROL DEVICES TO PREVENT SEDIMENT INTAKE FROM OTHER AREAS.
9. STOCKPILED MATERIALS SHALL BE PROTECTED BY COVER, APPROVED BARRIERS OR OTHER APPROVED SEDIMENT CONTROL DEVICES.
10. ALL DISTURBED AREAS SHALL BE STABILIZED WITHIN 3 DAYS AFTER 1/2" RAIN EVENT DISTURBANCE.
11. SEDIMENT TRAPPING MEASURES: SEDIMENT BASINS AND TRAPS, PERIMETER BERMS, FILTER FENCES, BERMS, SEDIMENT BARRIERS, VEGETATIVE BUFFERS AND OTHER MEASURES INTENDED TO TRAP SEDIMENT AND/OR PREVENT THE TRANSPORT OF SEDIMENT INTO WATERS OF THE STATE OR NEIGHBORING PROPERTIES SHALL BE INSTALLED, CONSTRUCTED OR, IN THE CASE OF VEGETATIVE BUFFERS, PROTECTED FROM DISTURBANCE, AS A FIRST STEP IN THE LAND ALTERATION PROCESS.
12. CONTRACTOR IS RESPONSIBLE FOR OBTAINING THE NECESSARY DEWATERING PERMITS FROM THE LOCAL WATER MANAGEMENT DISTRICT OR OTHER REGULATORY AGENCY.
13. A DEWATERING PLAN MUST BE SUBMITTED AND APPROVED BY THE ENGINEER PRIOR TO DISCHARGE.

14. WHERE PUMPS ARE TO BE USED TO REMOVE TURBID WATER FROM THE CONSTRUCTION AREA, THE WATER SHALL BE TREATED TO REDUCE TURBIDITY TO STATE WATER QUALITY STANDARDS PRIOR TO DISCHARGE TO THE WETLANDS. TREATMENT METHODS INCLUDE, FOR EXAMPLE, TURBID WATER BEING PUMPED INTO GRASSED SWALES OR APPROPRIATE VEGETATED AREAS (OTHER THAN UPLAND PRESERVATION AREAS AND WETLAND BUFFERS), SEDIMENTS BASINS, OR AREAS CONFINED BY AN APPROPRIATE ENCLOSURE SUCH AS TURBIDITY BARRIERS, AND KEPT CONFINED UNTIL ITS TURBIDITY LEVEL MEETS STATE WATER QUALITY STANDARDS.
15. IF WIND EROSION BECOMES SIGNIFICANT DURING CONSTRUCTION, THE CONTRACTOR SHALL STABILIZE THE AFFECTED AREA USING SPRINKLING, IRRIGATION, OR OTHER ACCEPTABLE METHODS.
16. WHERE APPLICABLE, SOIL TRACKING PREVENTION DEVICES SHALL BE PROVIDED AND MAINTAINED PER PINELLAS COUNTY EROSION & SEDIMENT CONTROL DETAILS.
17. THE EROSION CONTROL DEVICE QUANTITIES SHOWN ON THE BID FORMS ARE ESTIMATES OF THE ACTUAL QUANTITIES THAT MAY BE ENCOUNTERED DURING CONSTRUCTION. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO SPECIFY ACTUAL QUANTITIES AND COSTS ASSOCIATED WITH THIS SPECIFIC EROSION CONTROL IMPLEMENTATION SCHEDULE. EROSION CONTROL ITEMS MAY BE ADDED OR DELETED FROM THE PAY ITEM LIST AS THE EROSION CONTROL IMPLEMENTATION SCHEDULE PROVIDED BY THE CONTRACTOR IS MODIFIED TO MEET SITE SPECIFIC CONDITIONS.
18. ALL EROSION CONTROL FENCES, BARRIERS, AND SILTATION DEVICES SHALL BE ERECTED PRIOR TO ANY LAND ALTERATIONS, SHALL BE MAINTAINED IN GOOD WORKING ORDER DURING CONSTRUCTION, AND REMOVED FOLLOWING SOIL STABILIZATION AND FINAL DRESSING. STOCKPILE AREAS SHALL INCLUDE SILT FENCING AROUND THE PERIMETER.
19. THE CONTRACTOR SHALL NOT RESTRICT OR BLOCK THE EXISTING DRAINAGE FLOW OVERLAND OR WITHIN RESHAPED SWALES. FLOW WITHIN EXISTING DRAINAGE PIPES SHALL BE MAINTAINED AT ALL TIMES. STORMWATER WILL BE CONVEYED VIA EXISTING SWALES, DITCHES, OR PROPOSED DITCHES, EXISTING AND PROPOSED STORM SEWERS.
20. THERE IS TO BE NO DISCHARGE (I.E. PUMPING, SHEET FLOW, SWALE, DITCH, ETC.) INTO EXISTING DITCHES OR CANALS WITHOUT THE USE OF SETTLING PONDS. IF THE CONTRACTOR DESIRES TO DISCHARGE INTO EXISTING DITCHES OR CANALS A SETTLING POND PLAN PREPARED BY THE CONTRACTOR MUST BE SUBMITTED TO AND APPROVED BY THE ENGINEER OF RECORD AND LOCAL REGULATORY AGENCY PRIOR TO CONSTRUCTION.
21. DURING DEWATERING OPERATIONS, THE CONTRACTOR SHALL NOT DISCHARGE DIRECTLY TO RECEIVING WATERS, EXISTING CONVEYANCES TO RECEIVING WATERS, OR WETLAND SYSTEMS. TEMPORARY SEDIMENT BASINS, TRAPS, OR SILTATION REDUCTION DEVICES SHALL BE UTILIZED TO COLLECT THE DISCHARGE FROM DEWATERING ACTIVITIES TO ELIMINATE THE POTENTIAL FOR OFF-SITE SEDIMENT TRANSPORT AND TO INSURE THAT DIRECT DISCHARGE DOES NOT OCCUR.
22. BANKS SHALL BE PROTECTED FROM EROSION OR COLLAPSE DURING CONSTRUCTION. BANK PROTECTION MATERIAL SHALL BE CAREFULLY PLACED FROM THE BANK AND NOT DUMPED FROM ABOVE IN AN UNCONTROLLED MANNER. EROSION CONTROL FABRIC SHALL BE USED FOR EROSION PROTECTION WHERE SOD WILL NOT HOLD OR BECOME ESTABLISHED IN TIME TO PROTECT THE BANKS. UNLESS OTHERWISE SPECIFIED IN THE PLANS, UPON COMPLETION OF CONSTRUCTION, ALL BANKS AND WATERWAYS SHALL BE RESTORED TO THEIR PRE-CONSTRUCTION CONFIGURATION AND PROTECTED FROM EROSION.
23. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING POND FILTRATION SYSTEMS FROM BEING CLOGGED UNTIL PINELLAS COUNTY DETERMINES THE CONSTRUCTION IS COMPLETE. IF FILTER MATERIAL IS CONTAMINATED, IT SHALL BE REPLACED AT THE EXPENSE OF THE CONTRACTOR.

DESIGNED	_____		
DRAWN	_____		
CHECKED	_____		
REV. NO.	DATE	DESCRIPTION	REV. BY



PROJECT: SR 590 (NE COACHMAN RD)
at CR 535 (OLD COACHMAN RD)

DESCRIPTION: EROSION CONTROL SHEET

APPROVED BY: *Caroline Cation Smith*

DATE: 11/15/17
 PROJECT NO. 001020A
 SHEET: 37

Approved
 17-013
 Bennett
 2/8/2018

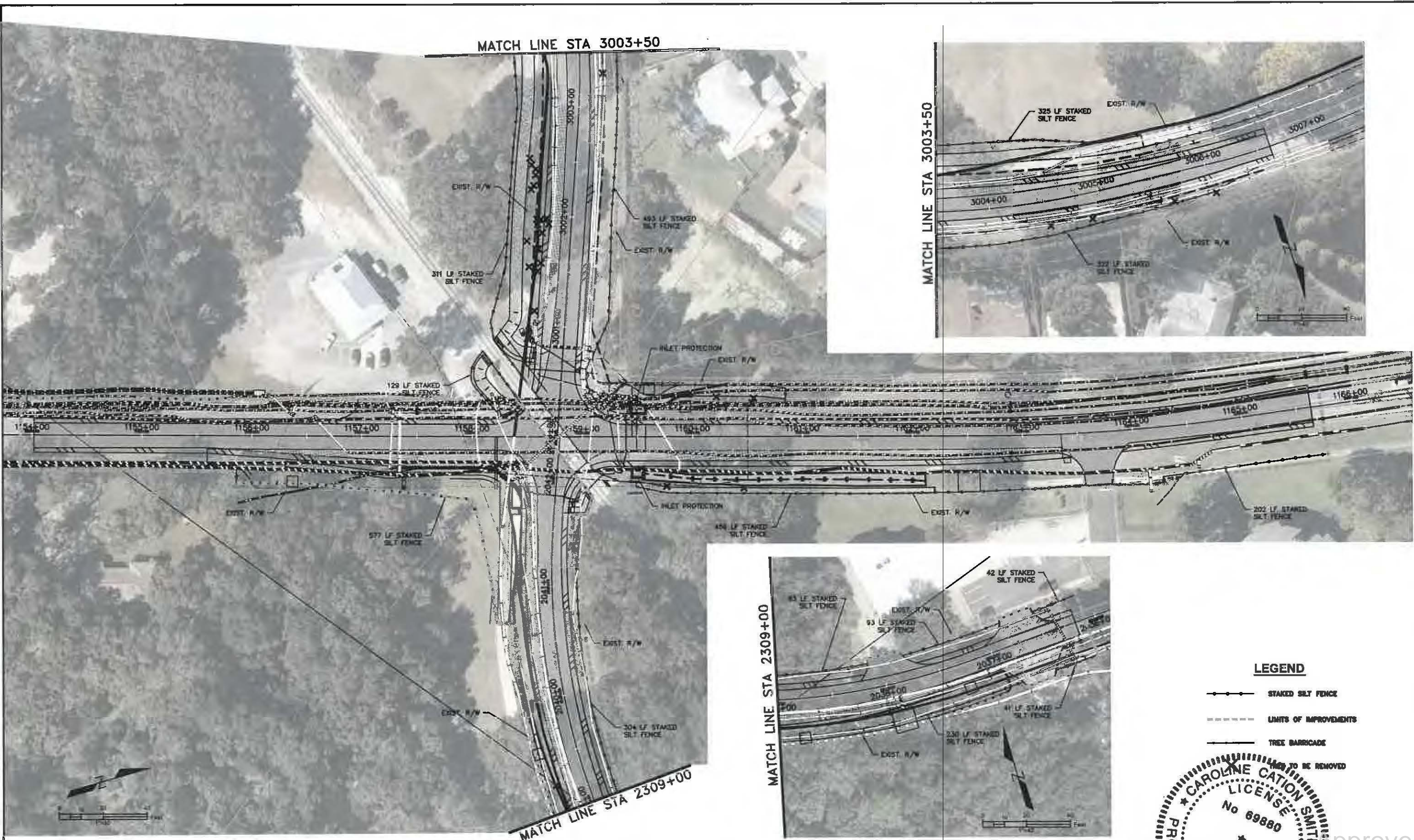
T:\pinellas county projects\001020a - s90 coachman rd - s90 coachman rd\2.0 design\Plans\DWG\production\001020a-SR90PP.dwg, Nov 15, 2017 - 12:58pm

MATCH LINE STA 3003+50

MATCH LINE STA 3003+50

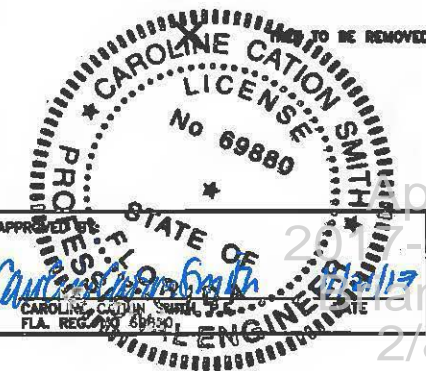
MATCH LINE STA 2309+00

MATCH LINE STA 2309+00



LEGEND

- STAKED SILT FENCE
- - - - - LIMITS OF IMPROVEMENTS
- — — — — TREE BARRICADE



REV. NO.	DATE	DESCRIPTION	REV. BY	CHECKED



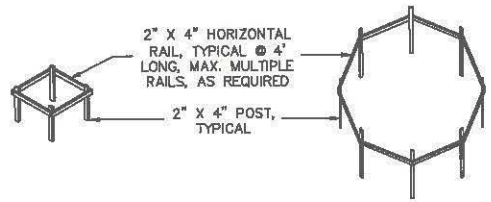
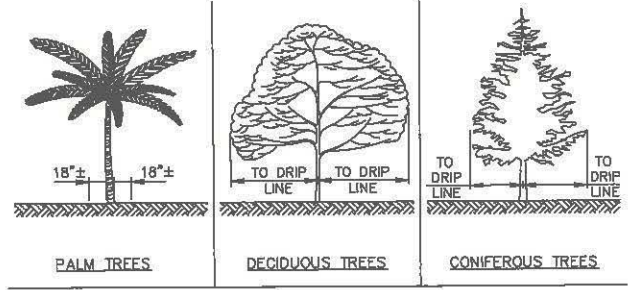
PROJECT: SR 590 (NE COACHMAN RD)
at CR 535 (OLD COACHMAN RD)

DESCRIPTION: EROSION CONTROL SHEET

APPROVED BY: *Caroline Cation Smith*
CAROLINE CATION SMITH
FLA. REG. ENG. No. 69880

DATE: 11/15/17
PROJECT NO. 001020A
SHEET: 38

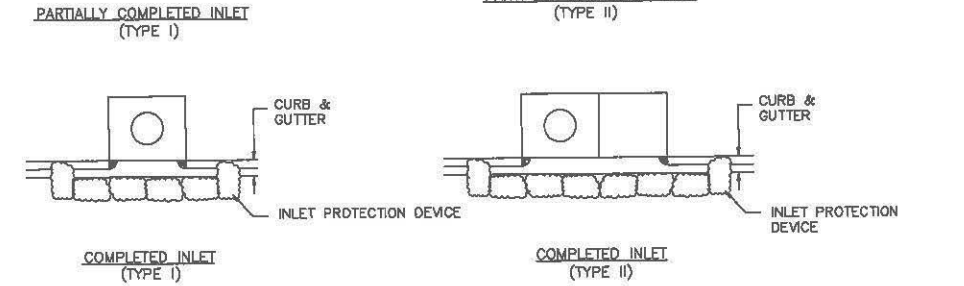
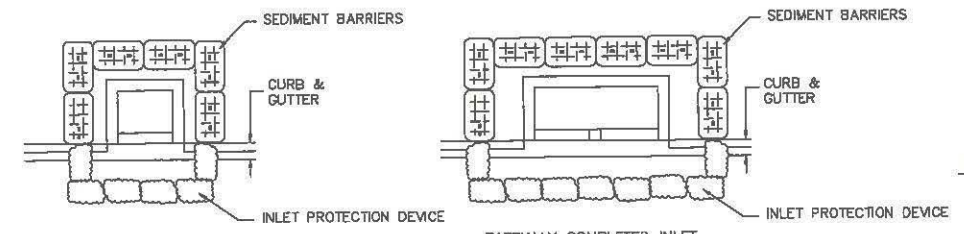
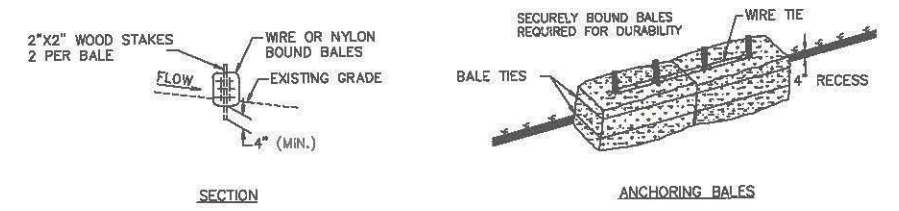
Approved
2/8/2018



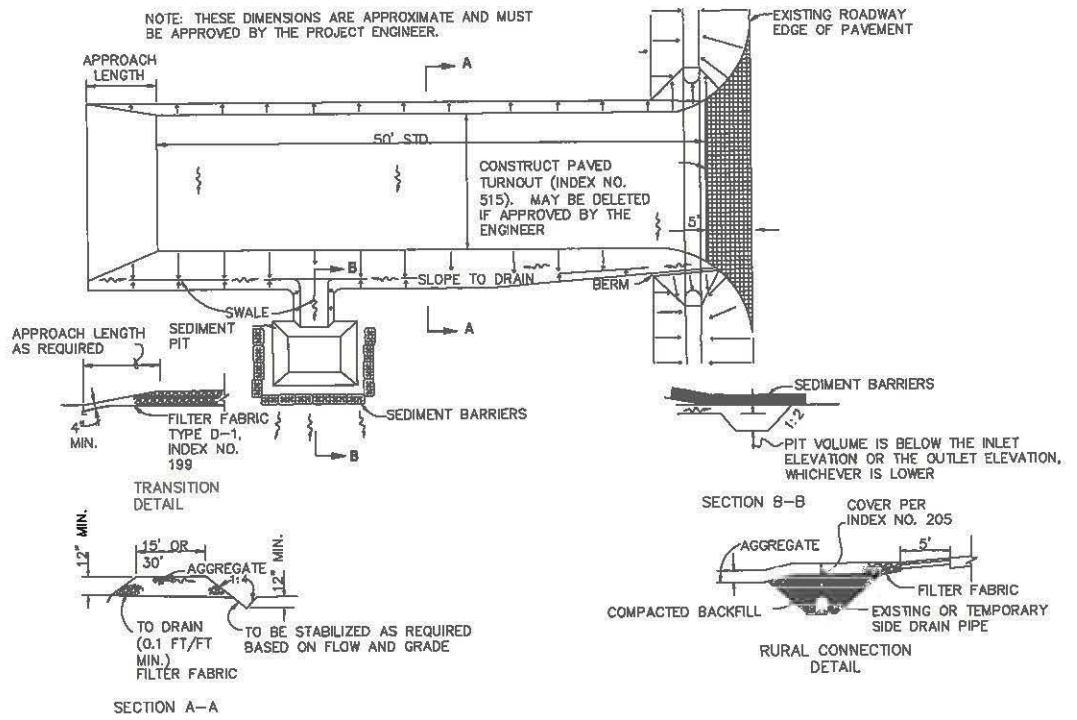
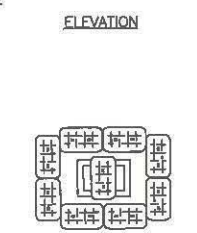
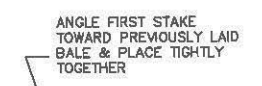
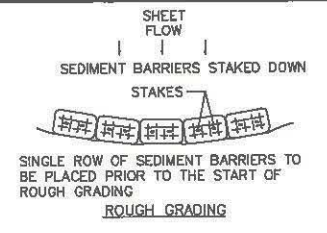
PALMS AND SMALL TREES LARGE TREES AND BUSHES

- NOTES:**
1. NO TRUCKS OR HEAVY EQUIPMENT ALLOWED WITHIN BARRIERS, ONLY HAND LABOR ALLOWED.
 2. NO CONSTRUCTION MATERIALS, SOIL DEPOSITS, OR SOLVENTS SHALL BE ALLOWED WITHIN BARRIERS.
 3. BARRIERS ARE TO BE IN PLACE PRIOR TO ANY CONSTRUCTION ACTIVITIES WITHIN TREE AREA.
 4. BARRIERS ARE TO STAY IN PLACE UNTIL ALL PAVING, CONSTRUCTION, AND HEAVY EQUIPMENT IS REMOVED FROM THE AREA.

TREE PROTECTION BARRIERS DETAIL
NTS



SEDIMENT BARRIERS OR APPROVED BARRIERS
NTS



SOIL TRACKING PREVENTION DEVICE
TYPE A
NTS

SOIL TRACKING PREVENTION DEVICE NOTES

1. A SOIL TRACKING PREVENTION DEVICE (STPD) SHALL BE CONSTRUCTED AT LOCATIONS DESIGNATED BY THE ENGINEER FOR POINTS OF EGRESS FROM UNSTABILIZED AREAS OF THE PROJECT TO PUBLIC ROADS WHERE OFF SITE TRACKING OF MUD COULD OCCUR. TRAFFIC FROM UNSTABILIZED AREAS OF THE CONSTRUCTION PROJECT SHALL BE DIRECTED THROUGH STPD BARRIERS, FLAGGING, OR OTHER POSITIVE MEANS SHALL BE USED AS REQUIRED TO LIMIT AND DIRECT VEHICULAR EGRESS ACROSS THE STPD.
2. THE CONTRACTOR MAY PROPOSE AN ALTERNATIVE TECHNIQUE TO MINIMIZE OFF SITE TRACKING OF SEDIMENT. THE ALTERNATIVE MUST BE REVIEWED AND APPROVED BY THE ENGINEER PRIOR TO ITS USE.
3. ALL MATERIALS SPILLED, DROPPED, OR TRACKED ONTO PUBLIC ROADS (INCLUDING THE STPD AGGREGATE AND CONSTRUCTION MUD) SHALL BE REMOVED DAILY, OR MORE FREQUENTLY IF SO DIRECTED BY THE ENGINEER.
4. AGGREGATES SHALL BE DESCRIBED IN SECTION 901 EXCLUDING 901-2.3. AGGREGATES SHALL BE FDOT SIZE #1. IF THIS SIZE IS NOT AVAILABLE, THE NEXT AVAILABLE SMALLER SIZE AGGREGATE MAY BE SUBSTITUTED WITH THE APPROVAL OF THE ENGINEER. SIZES CONTAINING EXCESSIVE SMALL AGGREGATE WILL TRACK OFF THE PROJECT AND ARE NOT SUITABLE.
5. THE SEDIMENT PIT SHOULD PROVIDE A RETENTION VOLUME OF 3800 CUBIC FEET/ACRE OF SURFACE AREA DRAINING TO THE PIT. WHEN THE STPD IS ISOLATED FROM OTHER DRAINAGE AREAS, THE FOLLOWING PIT VOLUMES WILL SATISFY THIS REQUIREMENT:
15'x50'=100 FT³
30'x50'=200 FT³
AS AN OPTION TO THE SEDIMENT PIT, THE WIDTH OF THE SWALE BOTTOM CAN BE INCREASED TO OBTAIN THE VOLUME. WHEN THE SEDIMENT PIT OR SWALE VOLUME HAS BEEN REDUCED TO ONE HALF, IT SHALL BE CLEANED. WHEN A SWALE IS USED, SEDIMENT BARRIERS OR SILT FENCE SHALL BE PLACED ALONG THE ENTIRE LENGTH.
6. THE SWALE DITCH DRAINING THE STPD SHALL HAVE A 0.2% MINIMUM AND A 1.0% MAXIMUM GRADE ALONG THE STPD AND TO THE SEDIMENT PIT.
7. MITERED END SECTIONS ARE NOT REQUIRED WHEN THE SIDE DRAIN PIPE SATISFIES THE CLEAR ZONE REQUIREMENTS.
8. THE STPD SHALL BE MAINTAINED IN A CONDITION THAT WILL ALLOW IT TO PERFORM ITS FUNCTION. TO PREVENT OFFSET TRACKING, THE STPD SHALL BE RINSED (DAILY WHEN IN USE) TO MOVE ACCUMULATED MUD DOWNWARD THROUGH THE STONE. ADDITIONAL STABILIZATION OF THE VEHICULAR ROUTE LEADING TO THE STPD MAY BE REQUIRED TO LIMIT MUD TRACKED.
9. A STPD SHALL BE PAID FOR UNDER THE CONTRACT UNIT PRICE FOR SOIL TRACKING PREVENTION DEVICE, E.A. THE UNIT PRICE SHALL CONSTITUTE FULL COMPENSATION FOR CONSTRUCTION, MAINTENANCE, REPLACEMENT OF MATERIALS, REMOVAL, AND RESTORATION OF THE AREA UTILIZED FOR THE STPD; INCLUDING BUT NOT LIMITED TO EXCAVATION, GRADING, TEMPORARY PIPE (INCLUDING M.E.S. WHEN REQUIRED), FILTER FABRIC, AGGREGATE, PAVED TURNOUT (INCLUDING ASPHALT AND BASE CONSTRUCTION), DITCH STABILIZATION, APPROACH ROUTE STABILIZATION, SEDIMENT REMOVAL AND DISPOSAL, WATER, RINSING AND CLEANING OF THE STPD AND CLEANING OF PUBLIC ROADS, GRASSING AND SOD. SYNTHETIC BALES SHALL BE PAID FOR UNDER THE CONTRACT UNIT PRICE FOR HAY OR STRAW BALED, E.A. SILT FENCE SHALL BE PAID FOR UNDER THE CONTRACT UNIT PRICE FOR STAKED SILT FENCE, L.F.
10. THE NOMINAL SIZE OF A STANDARD STPD IS 15'x50' UNLESS OTHERWISE SHOWN IN THE PLANS. IF THE VOLUME ENTERING AND EXITING VEHICLES WARRANT, A 30' WIDTH STPD MAY BE USED IF APPROVED BY THE ENGINEER. WHEN A DOUBLE WIDTH (30') STPD IS USED, THE PAY QUANTITY SHALL BE 2 FOR EACH LOCATION.

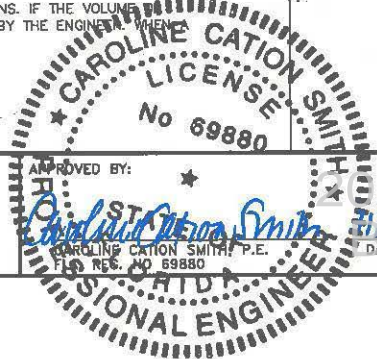
T:\pinellas county projects\001020a - spo coachman road\2.0 design\Plans\DWG\production\001020a-SMPPPP.dwg, Nov 15, 2017 - 12:59pm

DESIGNED	_____
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CHECKED	_____
REV. BY	_____
REV. NO.	_____
DATE	_____
DESCRIPTION	_____



PROJECT: SR 590 (NE COACHMAN RD)
at CR 535 (OLD COACHMAN RD)

DESCRIPTION: EROSION CONTROL SHEET



APPROVED BY: *Caroline Cation Smith*
DATE: 11/15/17
PROJECT NO. 001020A
SHEET: 39
2/8/2018

MAINTENANCE OF TRAFFIC GENERAL NOTES:

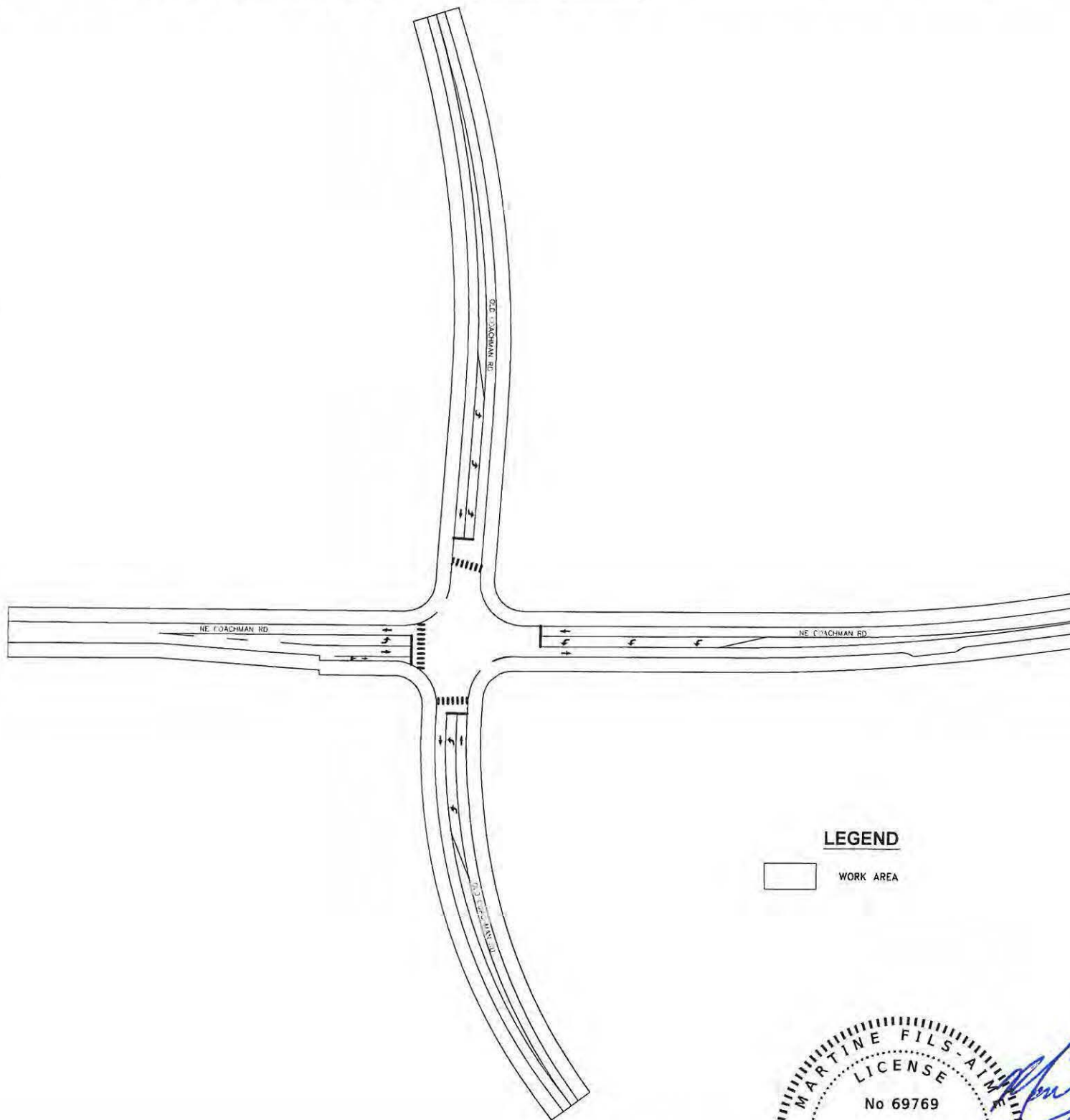
1. THE CONTRACTOR SHALL COORDINATE WITH CSX THROUGH PINELLAS COUNTY CONSTRUCTION OFFICE FOR THE PROTECTION AND CONSTRUCTION SEQUENCE OF THE RAILROAD CROSSING AND SIGNALS.
2. THE CONTRACTOR SHALL ADHERE TO THE REQUIREMENTS SET FORTH IN THE LATEST VERSIONS OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES AND THE 600 SERIES INDICES OF THE FDOT STANDARDS AT ALL TIMES.
3. TRAFFIC SHALL BE MAINTAINED ON PAVED SURFACES AT ALL TIMES.
4. THE TRAFFIC AND TRAVEL WAYS SHALL NOT BE ALTERED TO CREATE A WORK ZONE UNTIL ALL LABOR AND MATERIALS ARE AVAILABLE FOR THE CONSTRUCTION IN THAT AREA.
5. MINIMUM OF 10 FT. LANES SHALL BE MAINTAINED.
6. EDGE OF ALL TRAVEL LANES AND EDGE OF SIDEWALKS SHALL MEET MINIMUM DROP OFF/OBSTRUCTION REQUIREMENTS AT ALL TIMES PER FDOT INDEX 600 SERIES. THE COST OF ANY TEMPORARILY BARRIERS/ EQUIPMENT IN ORDER TO MAINTAIN MINIMUM REQUIREMENTS SHALL BE CONSIDERED INCIDENTAL.
7. THE CONTRACTOR SHALL EXCAVATE ONLY THE AREAS OF PROPOSED WIDENING WHICH CAN BE BROUGHT BACK WITHIN THE SAME DAY/NIGHT PERIOD. IF ANY EXCAVATED AREA REMAINS OPEN BEYOND ONE DAY/NIGHT OPERAION, THE CONTRACTOR SHALL PROVIDE BARRIERS IN ACCORDANCE WITH DROP-OFF CRITERIA OF INDEX 600.
8. IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN SAFE PEDESTRIAN AND BICYCLE TRAFFIC AROUND THE WORK ZONE SIGNS AS REQUIRED PER INDEX 660.
9. THE CONTRACTOR SHALL NOTIFY THE FOLLOWING EMERGENCY SERVICE AGENCIES WITHIN 2 BUSINESS DAYS PRIOR TO ANTICIPATED DISRUPTION TO THE NORMAL FLOW OF TRAFFIC, INCLUDING LANE CLOSURES, DETOURS AND SIGNAL WORK:

CITY OF CLEARWATER	(727) 562-4420
CLEARWATER FIRE & RESCUE	(727) 562-4334
PINELLAS COUNTY SHERIFF	(727) 582-6200
PINELLAS SUNCOAST TRANSIT AUTHORITY	(727) 540-1800
PINELLAS COUNTY SCHOOLS	(727) 588-6000
US POST OFFICE	(800) 275-8777

10. THROUGHOUT THE MILLING OPERATIONS THE CONTRACTOR SHALL HAVE A SELF CONTAINED VACUUM TYPE MOBILE BROOM ON THE JOB FOR CLEAN UP OF MILLED DUST MATERIAL.
11. THE CONTRACTOR SHALL NOTIFY THE ENGINEER A MINIMUM OF 7 DAYS IN ADVANCE OF ANY LANE CLOSURES OR DETOURS.
12. THE CONTRACTOR SHALL NOTIFY ALL LOCAL LAW ENFORCEMENT, EMERGENCY/RESCUE AGENCIES LOCATED IN THE PROJECT VICINITY 24 HOURS IN ADVANCE OF PERFORMING ANY LANE CLOSURES OR DETOURS.
13. THE CONTRACTOR SHALL MAINTAIN THE SAME NUMBER OF THROUGH LANES THAT EXIST PRIOR TO CONSTRUCTION ON ALL ROADWAYS AT TIMES WHEN NO LANE CLOSURE OCCURS.
14. ALL TEMPORARY STRIPING SHALL BE A MINIMUM OF 6 INCHES IN WIDTH.
15. THE CONTRACTOR SHALL, AT THE DISCRETION OF THE ENGINEER, OPEN ANY TEMPORARY LANE CLOSURES CAUSING EXTENDED TRAFFIC CONGESTION (5 MINUTE DELAY) UNTIL TRAFFIC HAS RETURNED TO AN ACCEPTABLE FLOW AS DETERMINED BY THE ENGINEER.
16. THE CONTRACTOR SHALL COVER ANY EXISTING OR PROPOSED SIGNS AND REMOVE PAVEMENT MARKINGS THAT CONFLICT WITH THE TRAFFIC CONTROL PLANS. WHEN THE CONFLICT NO LONGER EXISTS, THE CONTRACTOR SHALL RESTORE THE SIGNS OR PAVEMENT MARKINGS TO THEIR ORIGINAL POSITION.
17. THE CONTRACTOR SHALL MATCH EXISTING CONDITIONS AT PROJECT BEGINNING AND END AS DIRECTED BY THE ENGINEER.
18. THE CONTRACTOR SHALL MAINTAIN VEHICULAR ACCESS TO DRIVEWAYS AND SIDE STREETS AT ALL TIMES. THE CONTRACTOR SHALL MAINTAIN DRIVEWAYS AT ALL TIMES AND SHALL PROVIDE MATERIALS TO MAINTAIN THE DRIVEWAYS AS DIRECTED BY THE ENGINEER.
19. THE EXISTING POSTED REGULATORY SPEED LIMIT SHALL BE MAINTAINED FOR THE DURATION OF THE PROJECT.
20. THE CONTRACTOR SHALL MAINTAIN POSITIVE DRAINAGE THROUGHOUT ALL PHASES OF CONSTRUCTION.
21. THE FOLLOWING LANE CLOSURE RESTRICTIONS SHALL BE REQUIRED:
 - OPEN ROAD: NO LANE CLOSURES WILL BE ALLOWED BETWEEN THE HOURS OF 7:00 AM AND 10:00 PM.
 - WITHIN 600' OF INTERSECTION: NO LANE CLOSURES WILL BE ALLOWED BETWEEN THE HOURS OF 6:30 AM AND 11:30 PM.
 - WORK ZONE LENGTH SHALL NOT EXCEED 2000'.

22. ALL EXISTING PAVEMENT MARKINGS THAT ARE ALTERED SHALL BE REPLACED UPON COMPLETION OF THE PROJECT. ALL COSTS FOR REMOVAL SHALL BE INCLUDED IN THE BID PRICE FOR MAINTENANCE OF TRAFFIC. THE REPLACEMENT MARKINGS SHALL BE PAID FOR UNDER THE APPROPRIATE BID ITEM.

23. EXISTING PEDESTRIAN SIGNALS SHALL REMAIN OPERABLE UNTIL THE NEW PEDESTRIAN SIGNALS ARE INSTALLED AND OPERATING.
24. THE EXISTING SIDEWALK SHALL REMAIN FREE OF CONSTRUCTION EQUIPMENT AND DEBRIS. IF A SECTION OF SIDEWALK HAS TO BE CLOSED, THE CONTRACTOR SHALL SUBMIT A DETOUR PLAN TO THE ENGINEER FOR APPROVAL.



LEGEND
 WORK AREA

Martine Fils-Aime
 01/09/2018

T: \Pinellas County Projects\001020A - SPO Coachman Road - SPO Coachman Road\2.0 Design\Plans\DWG\Production\01020A-MOT.dwg, Dec 20, 2017 - 2:28pm

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REV. NO.	DATE	DESCRIPTION	REV. BY



PROJECT: SR 590 (NE COACHMAN RD)
 at CR 535 (OLD COACHMAN RD)

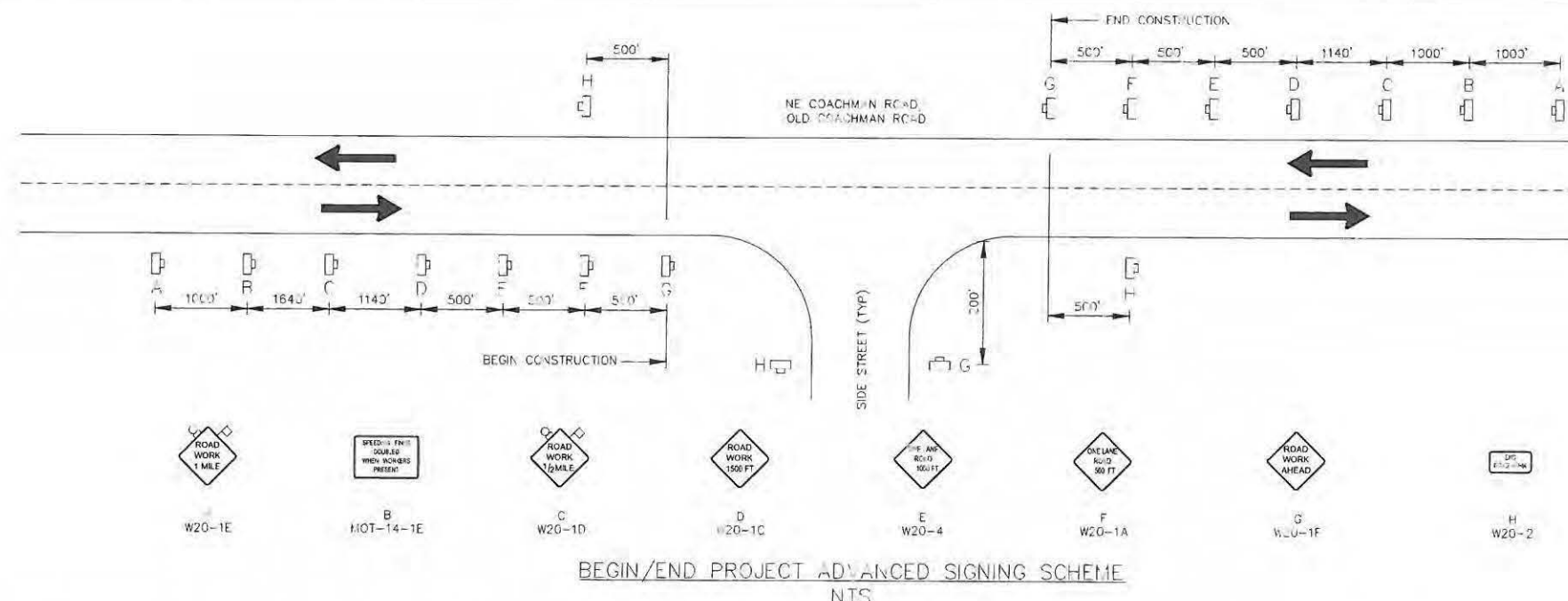
DESCRIPTION: MAINTENANCE OF TRAFFIC PLAN

APPROVED BY: MARTINE FILS-AIME, P.E.
 FLA. REG. NO 69769

DATE: 12/20/17
 PROJECT NO: 001020A
 SHEET: 40

2/8/2018

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Traffic Control Plan

The Contractor shall have the option to develop an alternative traffic control plan for approval by the Engineer. The plan must be signed and sealed by a professional engineer registered in the state of Florida. The Contractor shall comply with drop off criteria for index 600 for all phases.

Phase I

1. Establish traffic control through work zone per index 602 and 603 (see typical).

Stage I

- a. Place temporary mid block crossing at station 1153+01.86 and 1166+63.24.
- b. Complete widening and sidewalk on the south side of the north leg of NE Coachman Rd and widening in the north side of the south leg of Old Coachman Rd.
- c. Complete widening and sidewalk on the south side of the south leg of Old Coachman Rd and south side of the south leg of NE Coachman Rd.

Stage II

- a. Place temporary mid block crossing at station 3007+62.17.
- b. Complete widening and sidewalk on the north side of both the north legs of NE Coachman Rd and Old Coachman Rd.
- c. Complete widening and sidewalk on the south side of the north leg of Old Coachman Rd and construct sidewalk on the north side of the south leg of NE Coachman Rd.

Phase II

- 1. Establish traffic control through work zone per index 603 and 604 for left side of roadway.
- 2. Mill existing EB and NB lanes. Place structural course.
- 3. Place temporary pavement markings.

Phase III

- 1. Establish traffic control through work zone per index 603 and 604 for right side of roadway.
- 2. Mill existing WB and SB lanes. Place structural course.
- 3. Place temporary pavement markings.

Phase IV

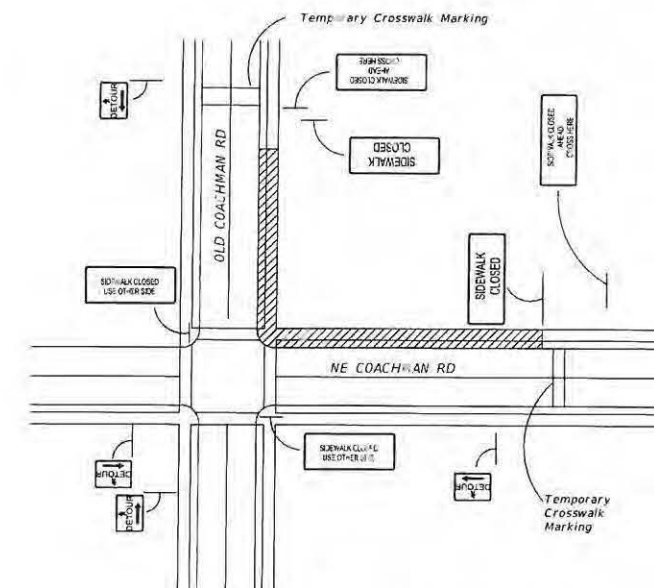
1. Establish traffic control to work zone per index 603 and 604 for left side of roadway. Place friction course continuously from center line to the outside shoulder. Place temporary pavement markings, RMP's, and signs as per pavement marking plans for the outside edge of the travel lane.

Phase V

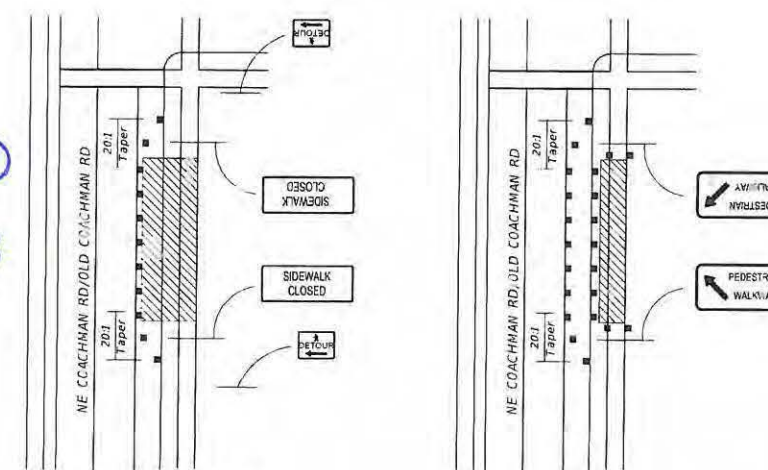
1. Place friction course, temporary pavement markings, RMP's, and signs for opposite lane.

Phase VI

1. Place final pavement marks and RMP's per pavement marking plans utilizing index 603 and 604.



CORNER SIDEWALK CLOSURE WITH TEMPORARY CROSSWALKS



MID-BLOCK SIDEWALK CLOSURE

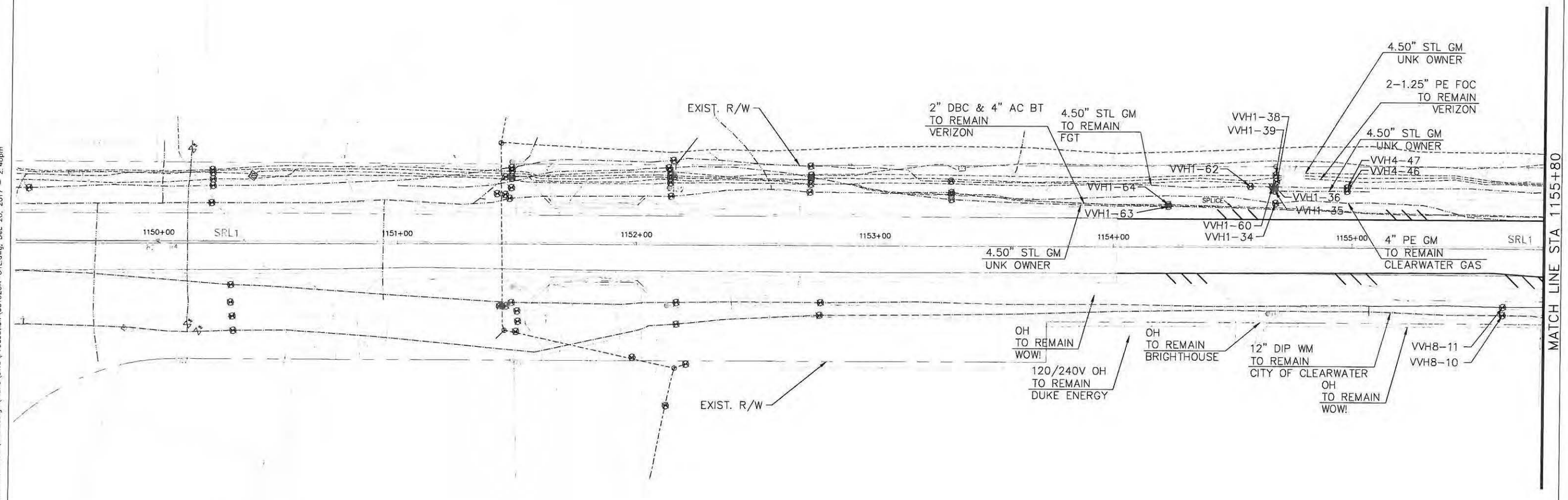
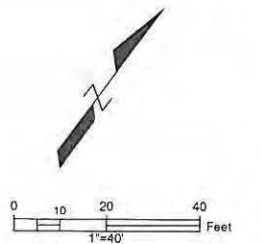
SIDEWALK DIVERSION



DESIGNED: _____		PROJECT: SR 590 (NE COACHMAN RD) at CR 535 (OLD COACHMAN RD)	DESCRIPTION: MAINTENANCE OF TRAFFIC PLAN	APPROVED BY: MARTINE FILS-AIME, P.E. FLA. REG. NO 69769	DATE: 12/20/17
DRAWN: _____		CHECKED: _____	REV. NO.	DATE	DESCRIPTION
CHECKED: _____		REV. BY			

Approved
 2017-01-09-013
 Brian Bennett
 DATE: 2/8/2018
 SHEET: 41

FOR ALIGNMENT, SUE, AND ROW INFORMATION
 CONTRACTOR TO USE TOPOGRAPHIC SURVEY OF:
 OLD COACHMAN ROAD AND N.E. COACHMAN
 ROAD SURVEY FILE NO.: F1957-C3D-2014.DWG



T:\Pinellas County\Projects\001020A - SR 590 Coachman Road\2.0 Design\Plans\DWG\Production\001020A-UTL.dwg, Dec 20, 2017 - 2:40pm

MATCH LINE STA 1155+80

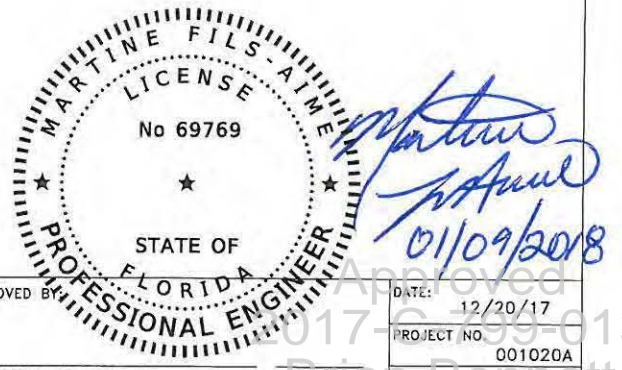
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PROJECT: SR 590 (NE COACHMAN RD)
 at CR 535 (OLD COACHMAN RD)

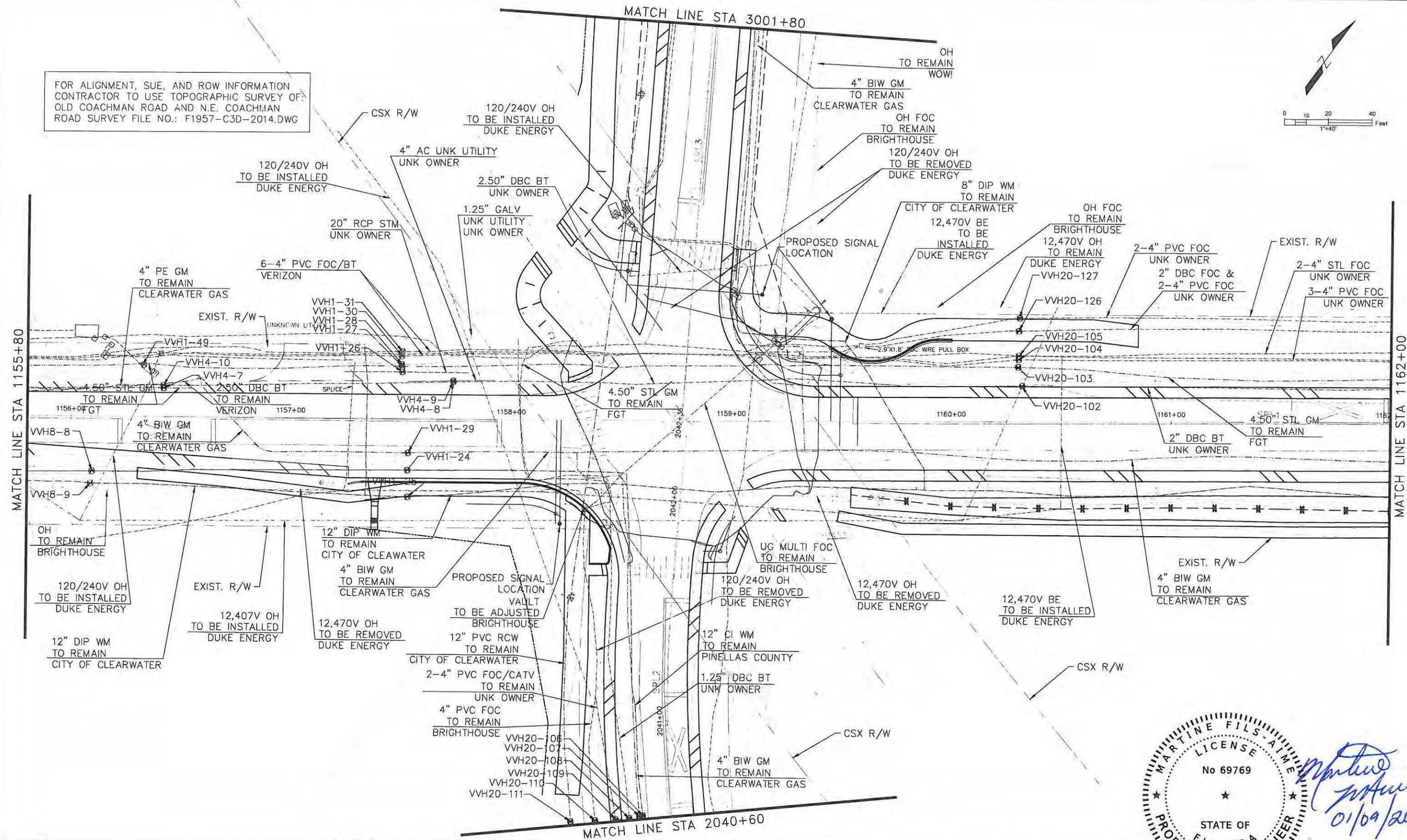
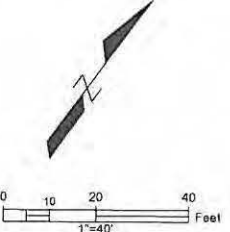
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APPROVED BY: *[Signature]*
 DATE: 12/20/17
 PROJECT NO. 001020A
 SHEET 42



2/8/2018

FOR ALIGNMENT, SUE, AND ROW INFORMATION
 CONTRACTOR TO USE TOPOGRAPHIC SURVEY OF:
 OLD COACHMAN ROAD AND N.E. COACHMAN
 ROAD SURVEY FILE NO.: F1957-C3D-2014.DWG



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REV. NO.	DATE	DESCRIPTION	REV. BY	CHECKED



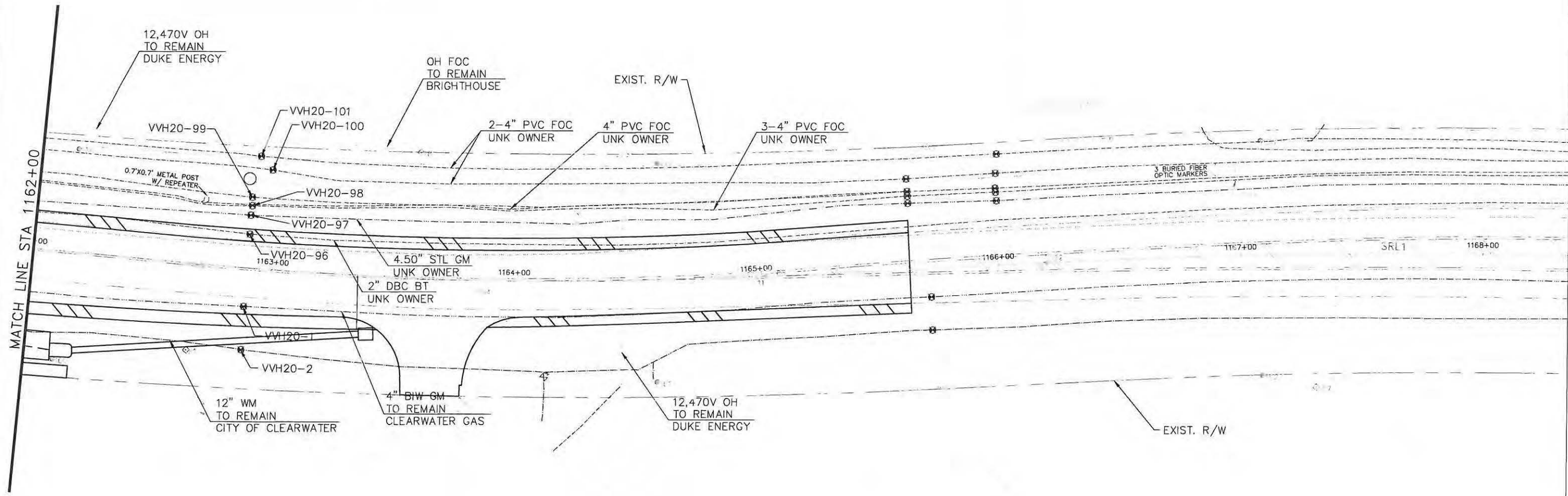
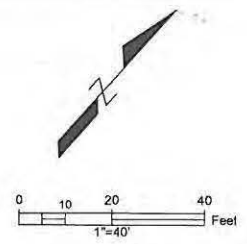
PROJECT: SR 590 (NE COACHMAN RD)
 at CR 535 (OLD COACHMAN RD)

DESCRIPTION: UTILITY ADJUSTMENT

APPROVED BY: *Martine Fils-Aime*
 DATE: 12/20/17

APPROVED: *Brian Bennett*
 DATE: 2/8/2018
 PROJECT NO.: 001020A
 SHEET: 43

FOR ALIGNMENT, SUE, AND ROW INFORMATION
 CONTRACTOR TO USE TOPOGRAPHIC SURVEY OF:
 OLD COACHMAN ROAD AND N.E. COACHMAN
 ROAD SURVEY FILE NO.: F1957-C3D-2014.DWG



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REV. NO.	DATE	DESCRIPTION	REV. BY	CHECKED



PROJECT: SR 590 (NE COACHMAN RD)
 at CR 535 (OLD COACHMAN RD)

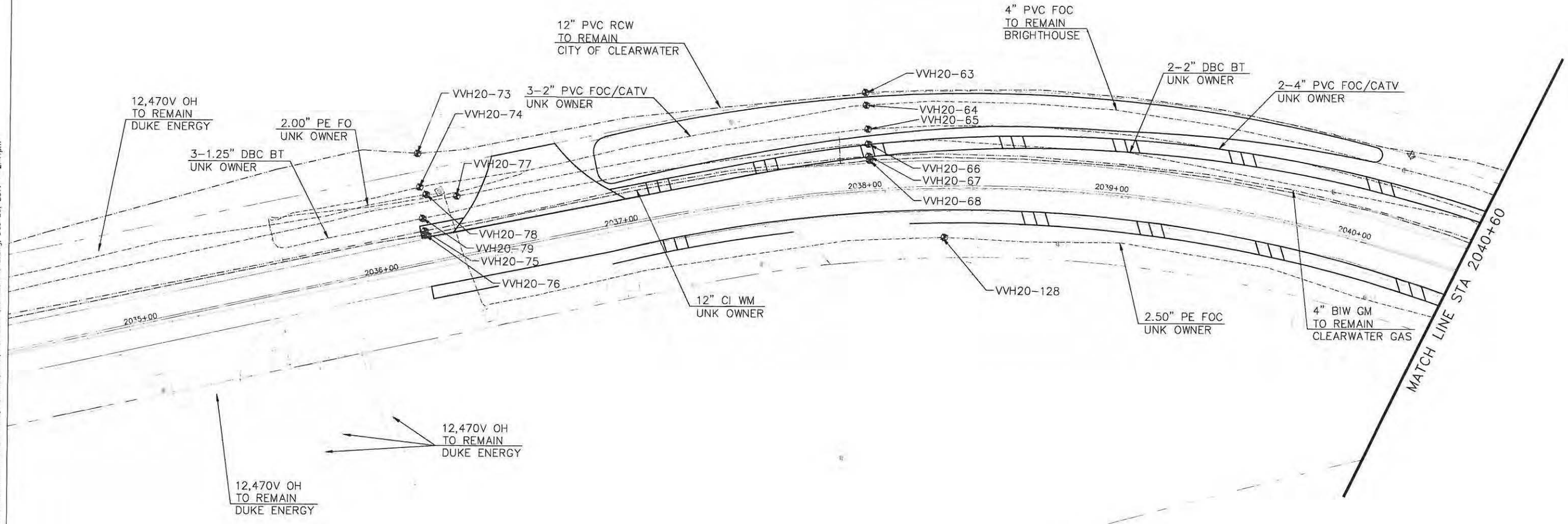
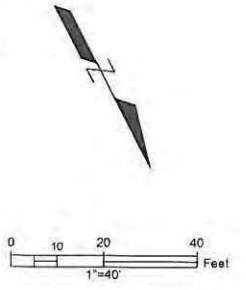
DESCRIPTION: UTILITY ADJUSTMENT



Martine Fils-Aime
 01/09/2018

DATE: 01/09/17
 PROJECT NO.: 2017-0199-013
 SHEET: 44
 001020A
 Brian Bennett
 2/8/2018

FOR ALIGNMENT, SUE, AND ROW INFORMATION
 CONTRACTOR TO USE TOPOGRAPHIC SURVEY OF:
 OLD COACHMAN ROAD AND N.E. COACHMAN
 ROAD SURVEY FILE NO.: F1957-C3D-2014.DWG



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PROJECT: SR 590 (NE COACHMAN RD)
 at CR 535 (OLD COACHMAN RD)

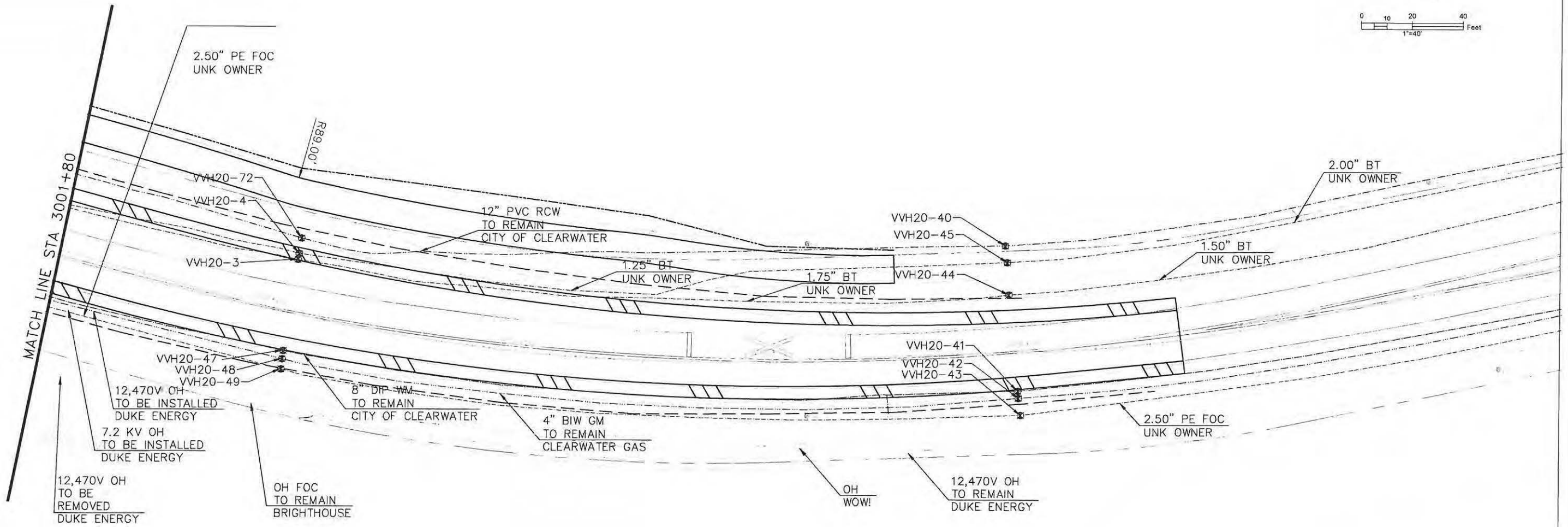
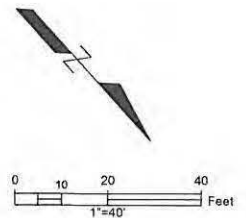
DESCRIPTION: UTILITY ADJUSTMENT

APPROVED BY: MARTINE FILS-AIME, P.E.
 FLA. REG. NO. 69769

DATE: 12/20/17
 PROJECT NO.: 001020A
 SHEET: 45

2/8/2018

FOR ALIGNMENT, SUE, AND ROW INFORMATION
 CONTRACTOR TO USE TOPOGRAPHIC SURVEY OF:
 OLD COACHMAN ROAD AND N.E. COACHMAN
 ROAD SURVEY FILE NO.: F1957-C3D-2014.DWG



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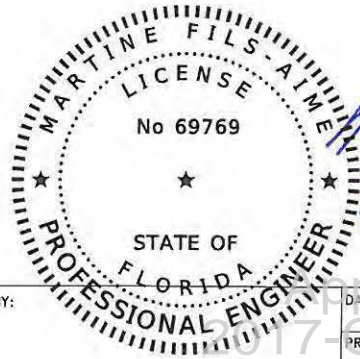
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REV. NO.	DATE	DESCRIPTION	REV. BY



PROJECT: SR 590 (NE COACHMAN RD)
 at CR 535 (OLD COACHMAN RD)

DESCRIPTION: UTILITY ADJUSTMENT

APPROVED BY: MARTINE FILS-AIME, P.E.
 FLA. REG. NO 69769

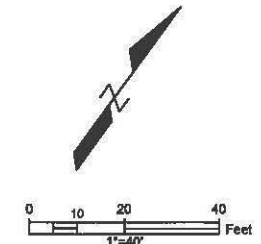


Martine Fils-Aime
 01/09/2018

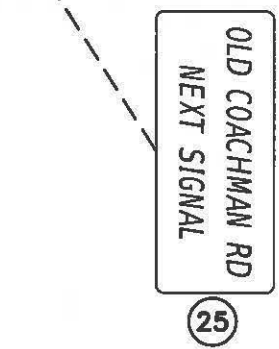
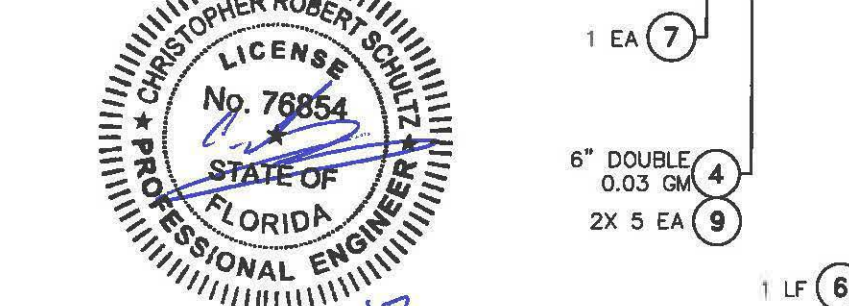
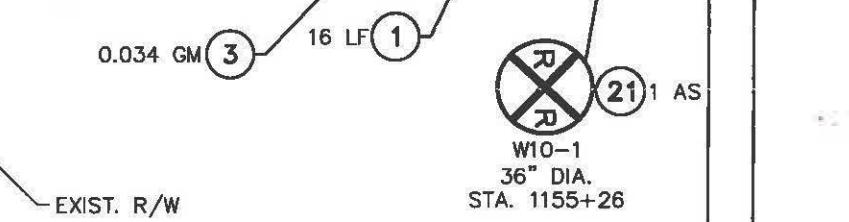
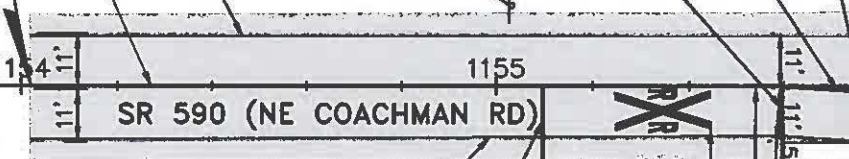
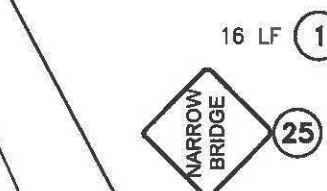
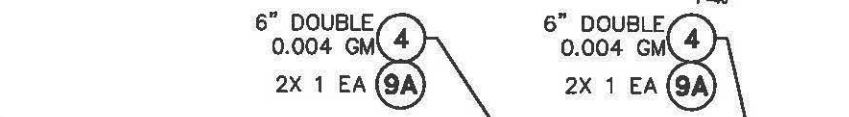
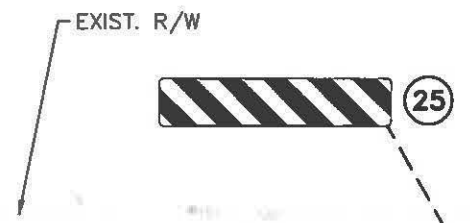
DATE: 12/20/17
 PROJECT NO.: 001020A
 SHEET: 45

2/8/2018

FOR ALIGNMENT, SUE, AND ROW INFORMATION
 CONTRACTOR TO USE TOPOGRAPHIC SURVEY OF:
 OLD COACHMAN ROAD AND N.E. COACHMAN
 ROAD SURVEY FILE NO.: F1957-C3D-2014.DWG



BEGIN PROJECT
 BEGIN SIGNS &
 PAVEMENT MARKINGS
 STA: 1154+01.86
 SURVEY SR 590



KEY NOTES	
KEY NUMBER	DESCRIPTION
1	THERMOPLASTIC, STANDARD, WHITE, SOLID, 24"
2	THERMOPLASTIC, PREFORMED, WHITE, SOLID, 12"
3	THERMOPLASTIC, STANDARD-OTHER SURFACES, WHITE, SOLID, 6"
4	THERMOPLASTIC, STANDARD-OTHER SURFACES, YELLOW, SOLID, 6"
5	THERMOPLASTIC, STANDARD-OTHER SURFACES, WHITE, SKIP, 6", 10'-30' SKIP OR 3-9 LANE DROP
6	THERMOPLASTIC, STANDARD, YELLOW, SOLID, 18" (30' C-C)
7	THERMOPLASTIC, STANDARD, WHITE, MESSAGE
8	THERMOPLASTIC, STANDARD, WHITE, ARROW
9	BI-DIRECTIONAL YELLOW/ YELLOW RPM (40' SPACING)
9A	BI-DIRECTIONAL YELLOW/ YELLOW RPM (30' C-C)
10	BI-DIRECTIONAL WHITE/RED RPM (20' SPACING)
11	BI-DIRECTIONAL YELLOW/RED RPM
12	THERMOPLASTIC, STANDARD-OPEN GRADE ASPHALT SURFACES, WHITE, 6", 6'-10" DOTTED LINE
12A	THERMOPLASTIC, STANDARD-OPEN GRADE ASPHALT SURFACES, WHITE, 6", 2'-4' DOTTED LINE
21	SIGN, SINGLE POST-LESS THAN 12 SF
22	SIGN, SINGLE POST-12 SF TO 20 SF
23	SIGN, SINGLE POST, RELOCATE
24	SIGN, SINGLE POST, REMOVE
25	SIGN, SINGLE POST, REMAIN



MATCH LINE STA 1155+80, SEE SHEET S-2

I:\Projects\100047082 Coachman Road\Coachman Production - AS\001020A-SPM.dwg, Dec 21, 2017 - 10:35am

DESIGNED	_____		
DRAWN	_____		
CHECKED	_____		
REV. NO.	DATE	DESCRIPTION	REV. BY



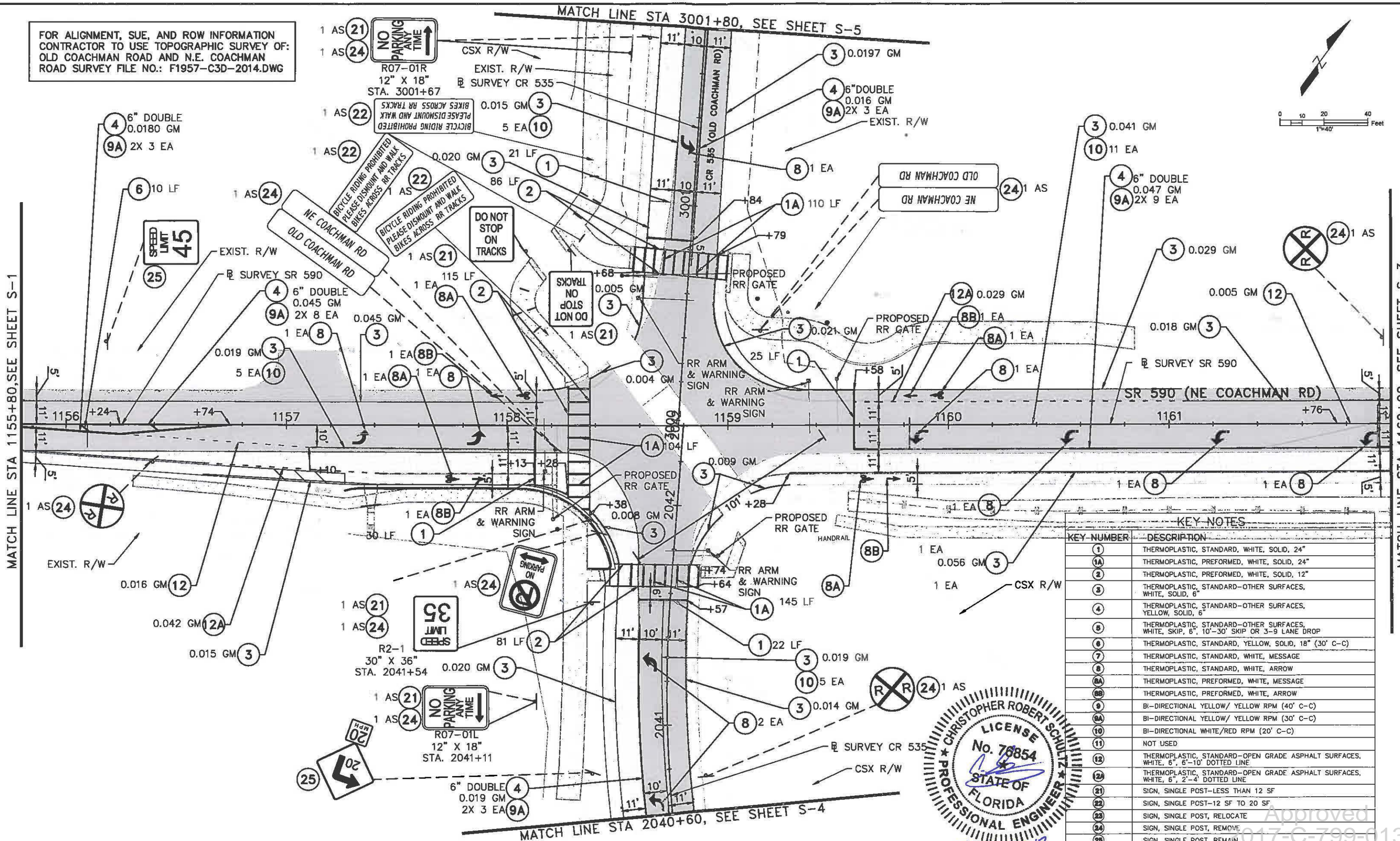
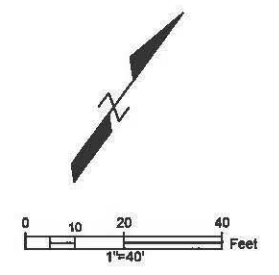
PROJECT: SR 590 (NE COACHMAN RD)
 at CR 535 (OLD COACHMAN RD)

DESCRIPTION: SIGNING & PAVEMENT MARKINGS PLAN

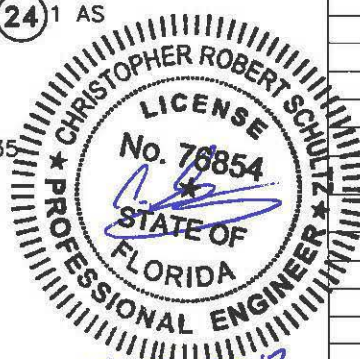
APPROVED BY: CHRISTOPHER R. SCHULTZ, P.E.
 FLA. REG. NO 76854
 DATE: 12/20/17
 PROJECT NO.: 001020A
 SHEET: S-1

Approved
 2017-C-799-013
 Brian Bennett
 2/8/2018

FOR ALIGNMENT, SUE, AND ROW INFORMATION
 CONTRACTOR TO USE TOPOGRAPHIC SURVEY OF:
 OLD COACHMAN ROAD AND N.E. COACHMAN
 ROAD SURVEY FILE NO.: F1957-C3D-2014.DWG



KEY NOTES	
KEY NUMBER	DESCRIPTION
1	THERMOPLASTIC, STANDARD, WHITE, SOLID, 24"
1A	THERMOPLASTIC, PREFORMED, WHITE, SOLID, 24"
2	THERMOPLASTIC, PREFORMED, WHITE, SOLID, 12"
3	THERMOPLASTIC, STANDARD-OTHER SURFACES, WHITE, SOLID, 6"
4	THERMOPLASTIC, STANDARD-OTHER SURFACES, YELLOW, SOLID, 6"
8	THERMOPLASTIC, STANDARD-OTHER SURFACES, WHITE, SKIP, 6", 10'-30' SKIP OR 3-9 LANE DROP
8	THERMOPLASTIC, STANDARD, YELLOW, SOLID, 18" (30' C-C)
7	THERMOPLASTIC, STANDARD, WHITE, MESSAGE
8	THERMOPLASTIC, STANDARD, WHITE, ARROW
8A	THERMOPLASTIC, PREFORMED, WHITE, MESSAGE
8B	THERMOPLASTIC, PREFORMED, WHITE, ARROW
9	BI-DIRECTIONAL YELLOW/ YELLOW RPM (40' C-C)
9A	BI-DIRECTIONAL YELLOW/ YELLOW RPM (30' C-C)
10	BI-DIRECTIONAL WHITE/RED RPM (20' C-C)
11	NOT USED
12	THERMOPLASTIC, STANDARD-OPEN GRADE ASPHALT SURFACES, WHITE, 6", 6'-10' DOTTED LINE
12	THERMOPLASTIC, STANDARD-OPEN GRADE ASPHALT SURFACES, WHITE, 6", 2'-4' DOTTED LINE
21	SIGN, SINGLE POST-LESS THAN 12 SF
22	SIGN, SINGLE POST-12 SF TO 20 SF
23	SIGN, SINGLE POST, RELOCATE
24	SIGN, SINGLE POST, REMOVE
25	SIGN, SINGLE POST, REMAIN



MATCH LINE STA 1155+80, SEE SHEET S-1

MATCH LINE STA 1162+00, SEE SHEET S-3

MATCH LINE STA 2040+60, SEE SHEET S-4



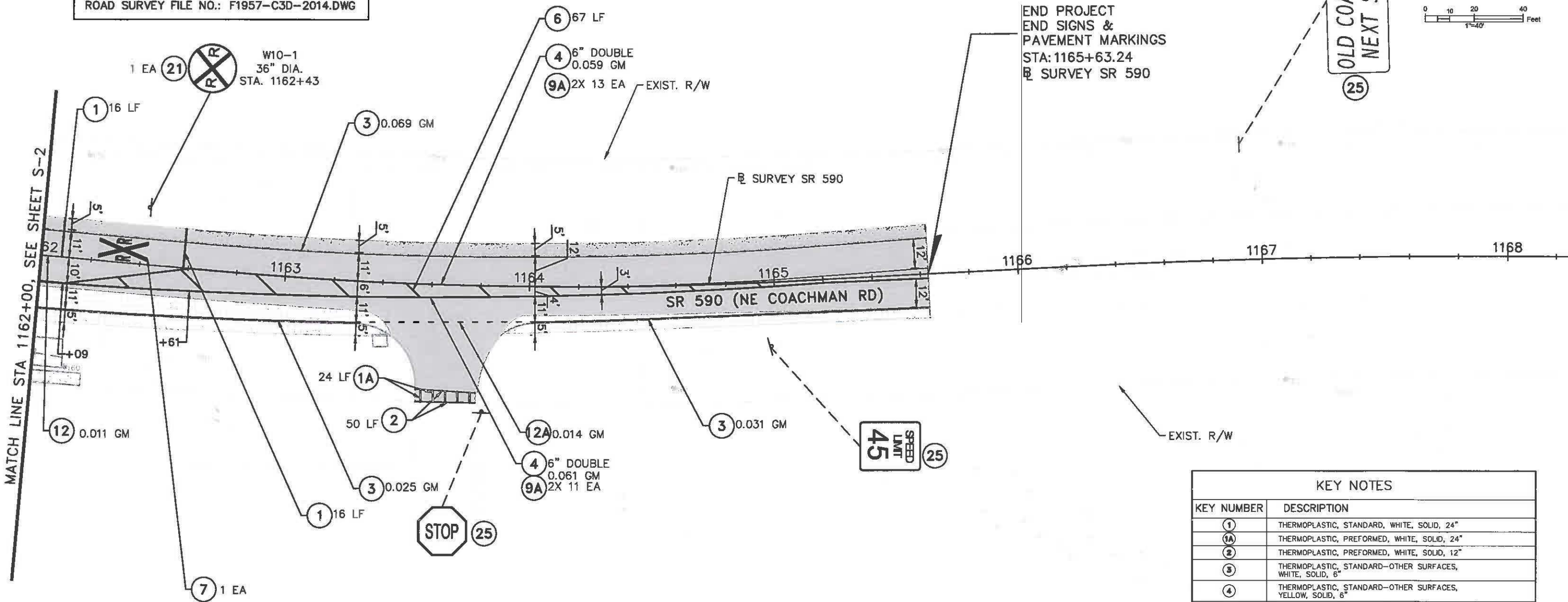
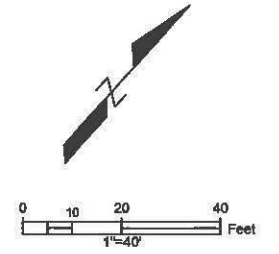
PROJECT: SR 590 (NE COACHMAN RD)
 at CR 535 (OLD COACHMAN RD)

DESCRIPTION: SIGNING & PAVEMENT MARKINGS PLAN

APPROVED BY: *Brian Bennett*
 DATE: 12/20/17
 PROJECT NO. 00102C
 SHEET: -

DESIGNED	
DRAWN	
CHECKED	
IN CHARGE	

FOR ALIGNMENT, SUE, AND ROW INFORMATION
 CONTRACTOR TO USE TOPOGRAPHIC SURVEY OF:
 OLD COACHMAN ROAD AND N.E. COACHMAN
 ROAD SURVEY FILE NO.: F1957-C3D-2014.DWG



END PROJECT
 END SIGNS &
 PAVEMENT MARKINGS
 STA: 1165+63.24
 SURVEY SR 590

OLD COACHMAN
 NEXT SIGNAL
 (25)

KEY NOTES	
KEY NUMBER	DESCRIPTION
1	THERMOPLASTIC, STANDARD, WHITE, SOLID, 24"
1A	THERMOPLASTIC, PREFORMED, WHITE, SOLID, 24"
2	THERMOPLASTIC, PREFORMED, WHITE, SOLID, 12"
3	THERMOPLASTIC, STANDARD-OTHER SURFACES, WHITE, SOLID, 6"
4	THERMOPLASTIC, STANDARD-OTHER SURFACES, YELLOW, SOLID, 6"
5	THERMOPLASTIC, STANDARD-OTHER SURFACES, WHITE, SKIP, 6", 10'-30' SKIP OR 3-9 LANE DROP
6	THERMOPLASTIC, STANDARD, YELLOW, SOLID, 18" (30' C-C)
7	THERMOPLASTIC, STANDARD, WHITE, MESSAGE
8	THERMOPLASTIC, STANDARD, WHITE, ARROW
9	BI-DIRECTIONAL YELLOW/ YELLOW RPM (40' C-C)
9A	BI-DIRECTIONAL YELLOW/ YELLOW RPM (30' C-C)
10	BI-DIRECTIONAL WHITE/RED RPM (20' C-C)
11	BI-DIRECTIONAL YELLOW/RED RPM
12	THERMOPLASTIC, STANDARD-OPEN GRADE ASPHALT SURFACES, WHITE, 6", 6'-10' DOTTED LINE
12A	THERMOPLASTIC, STANDARD-OPEN GRADE ASPHALT SURFACES, WHITE, 6", 2'-4' DOTTED LINE
21	SIGN, SINGLE POST-LESS THAN 12 SF
22	SIGN, SINGLE POST-12 SF TO 20 SF
23	SIGN, SINGLE POST, RELOCATE
24	SIGN, SINGLE POST, REMOVE
25	SIGN, SINGLE POST, REMAIN



REV. NO.	DATE	DESCRIPTION	REV. BY	CHECKED

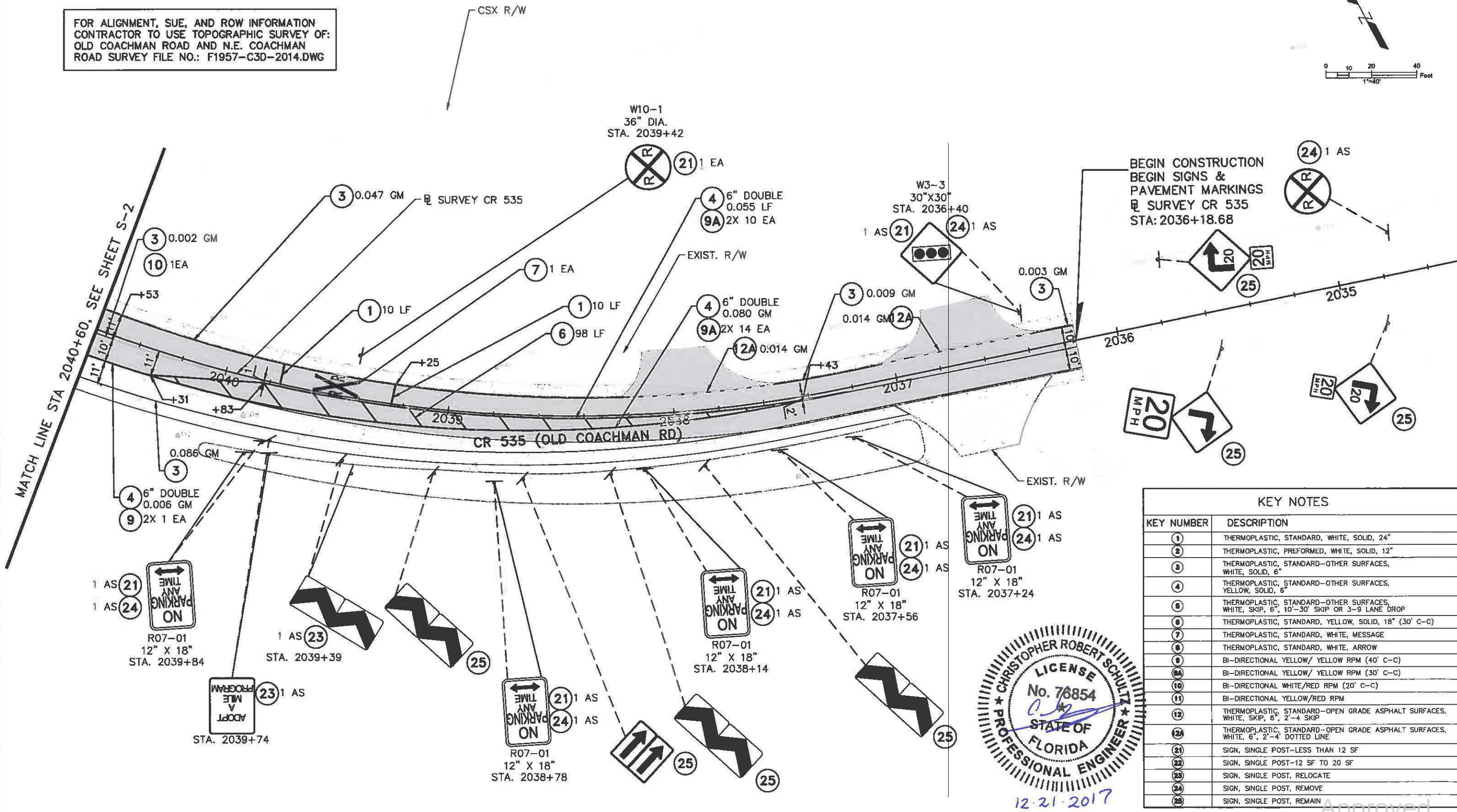
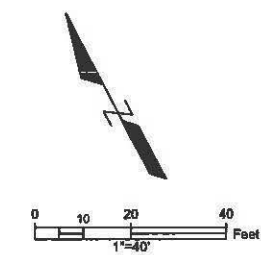


PROJECT: SR 590 (NE COACHMAN RD)
 at CR 535 (OLD COACHMAN RD)

DESCRIPTION: SIGNING & PAVEMENT MARKINGS PLAN

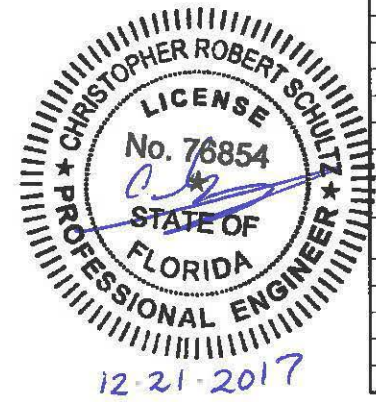
APPROVED BY: CHRISTOPHER R. SCHULTZ, P.E.
 FLA. REG. NO 76854
 DATE: 12/20/17
 PROJECT NO. 2017-C-799-013
 SHEET 3-3

FOR ALIGNMENT, SUE, AND ROW INFORMATION
 CONTRACTOR TO USE TOPOGRAPHIC SURVEY OF:
 OLD COACHMAN ROAD AND N.E. COACHMAN
 ROAD SURVEY FILE NO.: F1957-C3D-2014.DWG



BEGIN CONSTRUCTION
 BEGIN SIGNS &
 PAVEMENT MARKINGS
 @ SURVEY CR 535
 STA: 2036+18.68

KEY NOTES	
KEY NUMBER	DESCRIPTION
1	THERMOPLASTIC, STANDARD, WHITE, SOLID, 24"
2	THERMOPLASTIC, PREFORMED, WHITE, SOLID, 12"
3	THERMOPLASTIC, STANDARD-OTHER SURFACES, WHITE, SOLID, 6"
4	THERMOPLASTIC, STANDARD-OTHER SURFACES, YELLOW, SOLID, 6"
5	THERMOPLASTIC, STANDARD-OTHER SURFACES, WHITE, SKIP, 6", 10'-30' SKIP OR 3-9 LANE DROP
6	THERMOPLASTIC, STANDARD, YELLOW, SOLID, 18" (30' C-C)
7	THERMOPLASTIC, STANDARD, WHITE, MESSAGE
8	THERMOPLASTIC, STANDARD, WHITE, ARROW
9	BI-DIRECTIONAL YELLOW/ YELLOW RPM (40' C-C)
9A	BI-DIRECTIONAL YELLOW/ YELLOW RPM (30' C-C)
10	BI-DIRECTIONAL WHITE/RED RPM (20' C-C)
11	BI-DIRECTIONAL YELLOW/RED RPM
12	THERMOPLASTIC, STANDARD-OPEN GRADE ASPHALT SURFACES, WHITE, SKIP, 6", 2'-4' SKIP
12A	THERMOPLASTIC, STANDARD-OPEN GRADE ASPHALT SURFACES, WHITE, 6", 2'-4' DOTTED LINE
21	SIGN, SINGLE POST-LESS THAN 12 SF
22	SIGN, SINGLE POST-12 SF TO 20 SF
23	SIGN, SINGLE POST, RELOCATE
24	SIGN, SINGLE POST, REMOVE
25	SIGN, SINGLE POST, REMAIN

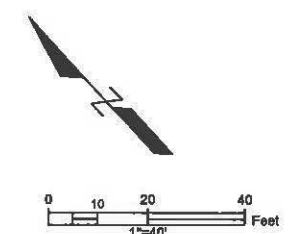


I:\Projects\100047082 Coachman Road\Coachman Production - AS\001020A-SPM.dwg, Dec 21, 2017 - 10:37am

DESIGNED _____		PROJECT: SR 590 (NE COACHMAN RD) at CR 535 (OLD COACHMAN RD)	DESCRIPTION: SIGNING & PAVEMENT MARKINGS PLAN	APPROVED BY: _____	DATE: 12/20/17
DRAWN _____				CHRISTOPHER R. SCHULTZ, P.E. FLA. REG. NO 76854	PROJECT NO. 001020A
CHECKED _____					DATE: 2/8/2018

REV. NO.	DATE	DESCRIPTION	REV. BY

FOR ALIGNMENT, SUE, AND ROW INFORMATION
 CONTRACTOR TO USE TOPOGRAPHIC SURVEY OF:
 OLD COACHMAN ROAD AND N.E. COACHMAN
 ROAD SURVEY FILE NO.: F1957-C3D-2014.DWG



END CONSTRUCTION
 END SIGNS &
 PAVEMENT MARKINGS
 STA: 3006+62.17
 SURVEY CR 535

R07-01
 12" X 18"
 STA. 3006+34



21 1 AS
 24 1 AS

0.092 GM 3

6" DOUBLE
 0.072 GM 4
 2X 13 EA 9A

EXIST. R/W

6" DOUBLE
 0.077 GM 4
 2X 14 EA 9A

SURVEY CR 535

125 LF 6

1 EA 7

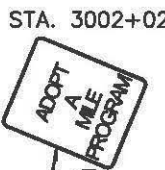
R2-1
 30"X36"
 STA. 3003+04



1 AS 21

R5-2
 24"X24"
 24 1 AS

0.009 GM 3
 3 EA 10



23 1 AS

6" DOUBLE
 0.013 GM 4
 2X 2 EA 9

1 EA 8

3008

3007

3006

3005

3004

CR 535 (OLD COACHMAN RD)

3003

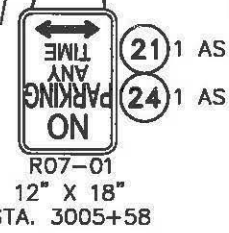
3002

3001

3000

KEY NOTES	
KEY NUMBER	DESCRIPTION
1	THERMOPLASTIC, STANDARD, WHITE, SOLID, 24"
2	THERMOPLASTIC, PREFORMED, WHITE, SOLID, 12"
3	THERMOPLASTIC, STANDARD-OTHER SURFACES, WHITE, SOLID, 6"
4	THERMOPLASTIC, STANDARD-OTHER SURFACES, YELLOW, SOLID, 6"
5	THERMOPLASTIC, STANDARD-OTHER SURFACES, WHITE, SKIP, 6", 10'-30" SKIP OR 3-9 LANE DROP
6	THERMOPLASTIC, STANDARD, YELLOW, SOLID, 18" (30' C-C)
7	THERMOPLASTIC, STANDARD, WHITE, MESSAGE
8	THERMOPLASTIC, STANDARD, WHITE, ARROW
9	BI-DIRECTIONAL YELLOW/ YELLOW RPM (40' C-C)
9A	BI-DIRECTIONAL YELLOW/ YELLOW RPM (30' C-C)
10	BI-DIRECTIONAL WHITE/RED RPM (20' C-C)
11	BI-DIRECTIONAL YELLOW/RED RPM
12	THERMOPLASTIC, STANDARD-OPEN GRADE ASPHALT SURFACES, WHITE, 6", 6'-10" DOTTED LINE
24	THERMOPLASTIC, STANDARD-OPEN GRADE ASPHALT SURFACES, WHITE, 6", 2'-4" DOTTED LINE
21	SIGN, SINGLE POST-LESS THAN 12 SF
22	SIGN, SINGLE POST-12 SF TO 20 SF
23	SIGN, SINGLE POST, RELOCATE
24	SIGN, SINGLE POST, REMOVE
25	SIGN, SINGLE POST, REMAIN

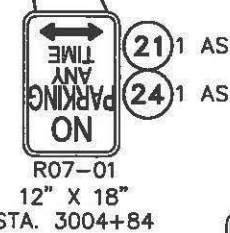
EXIST. R/W



R07-01
 12" X 18"
 STA. 3005+58



24 1 AS

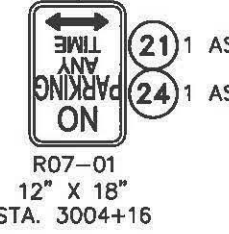


R07-01
 12" X 18"
 STA. 3004+84

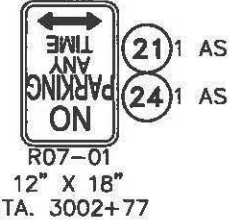


W10-1
 36" DIA.
 STA. 3003+47

10 LF 1



R07-01
 12" X 18"
 STA. 3004+16



R07-01
 12" X 18"
 STA. 3002+77



R07-01
 12" X 18"
 STA. 3002+17

MATCH LINE STA 3001+80, SEE SHEET S-2

CSX R/W



REV. NO.	DATE	DESCRIPTION	REV. BY	CHECKED



PROJECT: SR 590 (NE COACHMAN RD)
 at CR 535 (OLD COACHMAN RD)

DESCRIPTION: SIGNING & PAVEMENT MARKINGS PLAN

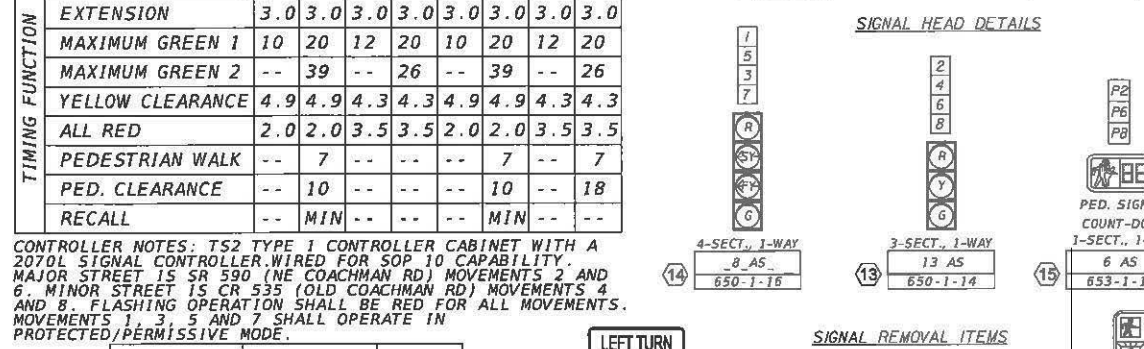
APPROVED BY: CHRISTOPHER R. SCHULTZ, P.E.
 FLA. REG. NO 76854
 DATE: 12/20/17
 SHEET: S-5

Approved
 2017-C-799-013
 Brian Bennett
 2/8/2018

I:\Projects\10047092 Coachman Road\Coachman Production - AS\001020A-SG - PLAN.dwg, Dec 21, 2017 - 12:01pm

KEY NOTES	
KEY NUMBER	DESCRIPTION
1	CONDUIT, FURNISH & INSTALL, OPEN TRENCH
2	CONDUIT, FURNISH & INSTALL, DIRECTIONAL BORE
3	SIGNAL CABLE, NEW OR RECONSTRUCTED INTERSECTION, F&I
4	PULL & SPLICE BOX, SIGNAL
5	ELECTRICAL POWER SERVICE, F&I, UNDERGROUND, METER PURCHASE NOT REQUIRED.
6	ELECTRICAL SERVICE WIRE
7	ALUMINUM SIGNALS POLE, PEDESTAL
8	ALUMINUM SIGNALS POLE, REMOVE
9	MAST ARM, FURNISH AND INSTALL, SINGLE ARM W/O LUM, 46', WINDSPEED 130
9A	MAST ARM, FURNISH AND INSTALL, SINGLE ARM W/O LUM, 70.5', WINDSPEED 130
10	MAST ARM, FURNISH AND INSTALL, DOUBLE ARM W/O LUM, 60'-60', WINDSPEED 130
11	POLE REMOVAL, SHALLOW, DIRECT BURIAL
12	POLE REMOVAL, DEEP, BOLT ON ATTACHMENT
13	TRAFFIC SIGNAL, F&I POLYCARBONATE W/ ALUMINUM TOP SECTION, 3 SECTION, 1 WAY
14	TRAFFIC SIGNAL, F&I POLYCARBONATE W/ ALUMINUM TOP SECTION, 4 SECTION, 1 WAY
15	PEDESTRIAN SIGNAL, F&I, LED COUNTDOWN, 1 DIRECTION
16	VEHICLE DETECTION SYSTEM-VIDEO, F&I, CABINET EQUIPMENT
17	VEHICLE DETECTION SYSTEM-VIDEO, F&I, ABOVE GROUND EQUIPMENT
17A	SIGNAL PRIORITY AND PREEMPTION SYSTEM, F&I, OPTICAL, CABINET ELECTRONICS
17B	SIGNAL PRIORITY AND PREEMPTION SYSTEM, F&I, OPTICAL, DETECTOR
18	PEDESTRIAN DETECTOR, F&I, STANDARD
19	TRAFFIC CONTROLLER ASSEMBLY, INSTALL
20	CONTROLLER ASSEMBLY, REMOVE, COMPLETE ASSEMBLY
21	INTERNALLY ILLUMINATED SIGN, F&I, OVERHEAD MOUNT, 12-18 SF

CONTROLLER TIMINGS		PRE-EMPTION TIMINGS	
TIMING FUNCTION		MINIMUM DWELL	
MOVEMENT NUMBER	1 2 3 4 5 6 7 8	YELLOW CLEARANCE	4.0
MINIMUM GREEN	5 10 5 10 5 10 5 10	ALL RED CLEARANCE	4.9
EXTENSION	3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0		3.5
MAXIMUM GREEN 1	10 20 12 20 10 20 12 20		
MAXIMUM GREEN 2	-- 39 -- 26 -- 39 -- 26		
YELLOW CLEARANCE	4.9 4.9 4.3 4.3 4.9 4.9 4.3 4.3		
ALL RED	2.0 2.0 3.5 3.5 2.0 2.0 3.5 3.5		
PEDESTRIAN WALK	-- 7 -- -- -- 7 -- --		
PED. CLEARANCE	-- 10 -- -- -- 10 -- -- 18		
RECALL	-- MIN -- -- -- MIN -- --		

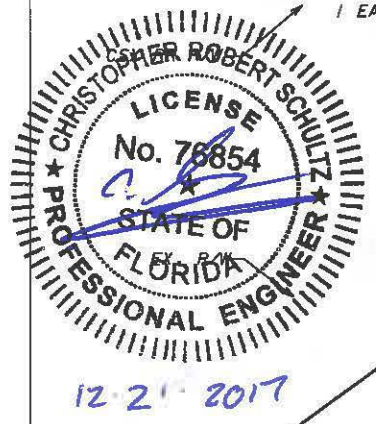
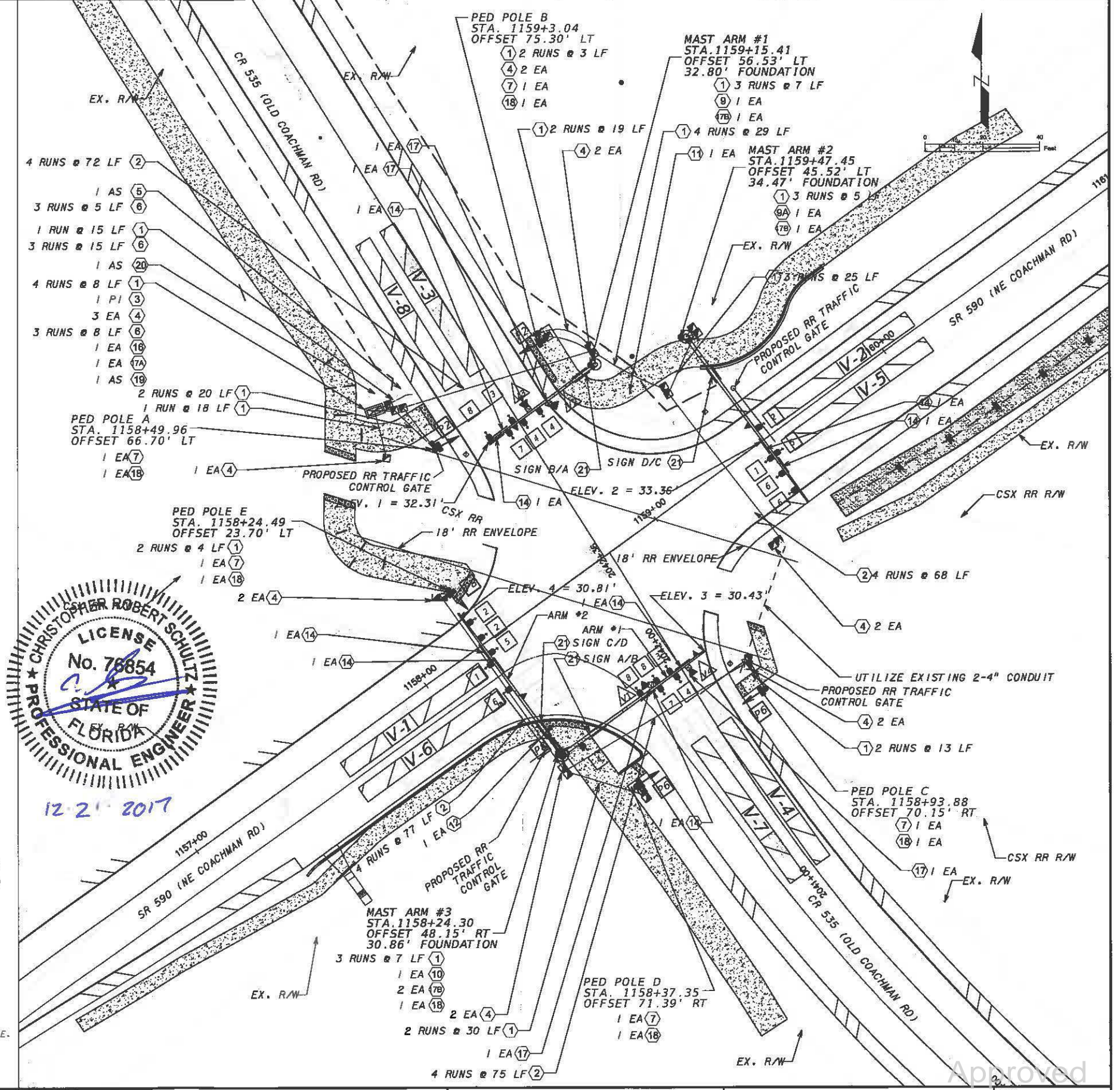
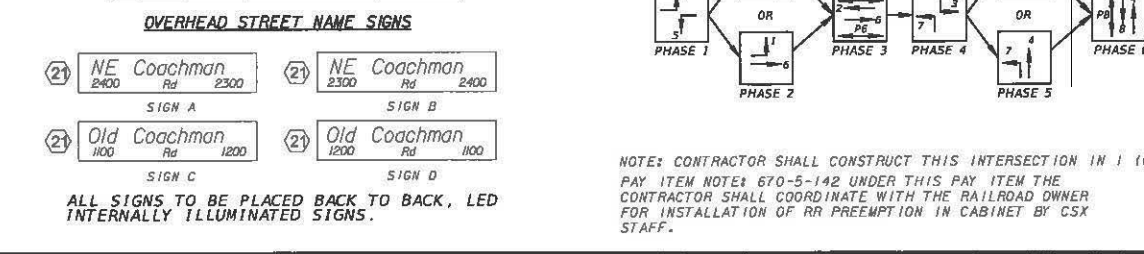


VIDEO DETECTOR CAMERA	DETECTION ZONE	DELAY TIME (SEC)
V1	V-1	0
V1	V-6	0
V2	V-2	0
V3	V-3	0
V3	V-8	0
V4	V-4	0
V4	V-7	0

LEFT TURN YIELD ON FLASHING YELLOW ARROW

OVERHEAD STREET NAME SIGNS

- 21 NE Coachman Rd 2300 SIGN A
- 21 NE Coachman Rd 2400 SIGN B
- 21 Old Coachman Rd 1200 SIGN C
- 21 Old Coachman Rd 1100 SIGN D



DESIGNED	PROJECT: SR 590 (NE COACHMAN RD) at CR 535 (OLD COACHMAN RD)	DESCRIPTION: SIGNALIZATION PLAN	APPROVED BY: CHRISTOPHER R. SCHULTZ, P.E. DATE: 12/20/17
DRAWN	PROJECT NO. 001020A		SHEET: SG-1
CHECKED	DATE: 2/8/2018		
REV. NO. DATE DESCRIPTION			



Approved
2017-0-70913
Brian Bennett
2/8/2018

I:\Projects\100047092_Coachman Road\Coachman Production - AS\001020A-SIG - PLAN.dwg, Dec 21, 2017 - 10:32am

SIGN NAME A		QTY 2	SIGN NUMBER	STATION(S)
PANEL	BORDER			none
WIDTH 9'-0"	WIDTH 0"			
HEIGHT 2'-0"	RADII 0"			
LEGEND White	COLOR Green			
COLOR Green				
SYMBOL(S)	ANGLE	X	Y	WID HT
SIGN NUMBER	CLEARANCE Edge Of Lens	COLUMN SIZE	AVERAGE LENGTH	



Panel Style: Street Name 12-9in no border_Overhead.ssi
M.U.T.C.D.: 2009 Edition

	NO. OF LIGHT FIXTURES	FIXTURE SPACING	PHOTOMETRIC CURVE	WATT	VOLTAGE									
COPY	N	E	C	o	a	c	h	m	a	n	L			
SPACE	4.7	10.1	5.9	8	8.9	8.3	9.2	9.2	10.4	12.8	10.4	5.3	4.8	98.5
COPY	2	4	0	0										
SPACE	4	5.5	6.8	6.2	5	80.4	23.6							
COPY	R	D		L										
SPACE	48.5	6.1	4.9	48.5	10.9									
COPY	2	3	0	0										
SPACE	81.1	5.7	5.9	6.2	5	4	22.9							
COPY														
SPACE														
COPY														
SPACE														

SIGN NAME B		QTY 2	SIGN NUMBER	STATION(S)
PANEL	BORDER			none
WIDTH 9'-0"	WIDTH 0"			
HEIGHT 2'-0"	RADII 0"			
LEGEND White	COLOR Green			
COLOR Green				
SYMBOL(S)	ANGLE	X	Y	WID HT
SIGN NUMBER	CLEARANCE Edge Of Lens	COLUMN SIZE	AVERAGE LENGTH	



Panel Style: Street Name 12-9in no border_Overhead.ssi
M.U.T.C.D.: 2009 Edition

	NO. OF LIGHT FIXTURES	FIXTURE SPACING	PHOTOMETRIC CURVE	WATT	VOLTAGE									
COPY	N	E	C	o	a	c	h	m	a	n	L			
SPACE	4.8	10.1	5.9	8	8.9	8.3	9.2	9.2	10.4	12.8	10.4	5.3	4.8	98.5
COPY	2	3	0	0										
SPACE	4	5.7	5.9	6.2	5	81.1	22.9							
COPY	R	D		L										
SPACE	48.5	6.1	4.9	48.5	10.9									
COPY	2	4	0	0										
SPACE	80.4	5.5	6.8	6.2	5	4	23.6							
COPY														
SPACE														
COPY														
SPACE														

SIGN NAME C		QTY 2	SIGN NUMBER	STATION(S)
PANEL	BORDER			none
WIDTH 9'-0"	WIDTH 0"			
HEIGHT 2'-0"	RADII 0"			
LEGEND White	COLOR Green			
COLOR Green				
SYMBOL(S)	ANGLE	X	Y	WID HT
SIGN NUMBER	CLEARANCE Edge Of Lens	COLUMN SIZE	AVERAGE LENGTH	



Panel Style: Street Name 12-9in no border_Overhead.ssi
M.U.T.C.D.: 2009 Edition

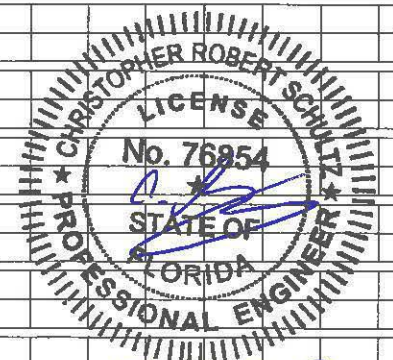
	NO. OF LIGHT FIXTURES	FIXTURE SPACING	PHOTOMETRIC CURVE	WATT	VOLTAGE										
COPY	0	1	d	C	o	a	c	h	m	a	n	L			
SPACE	4	10.2	5.2	5.3	7.3	8.7	8	8.9	8.9	9.9	12.4	9.9	5.3	4	100
COPY	1	1	0	0											
SPACE	5	3.2	3.2	6.2	5	85.4	17.6								
COPY	R	D		L											
SPACE	48.5	6.1	4.9	48.5	10.9										
COPY	1	2	0	0											
SPACE	83.8	3	5.9	6.2	5	4	20.2								
COPY															
SPACE															
COPY															
SPACE															

SIGN NAME D		QTY 2	SIGN NUMBER	STATION(S)
PANEL	BORDER			none
WIDTH 9'-0"	WIDTH 0"			
HEIGHT 2'-0"	RADII 0"			
LEGEND White	COLOR Green			
COLOR Green				
SYMBOL(S)	ANGLE	X	Y	WID HT
SIGN NUMBER	CLEARANCE Edge Of Lens	COLUMN SIZE	AVERAGE LENGTH	



Panel Style: Street Name 12-9in no border_Overhead.ssi
M.U.T.C.D.: 2009 Edition

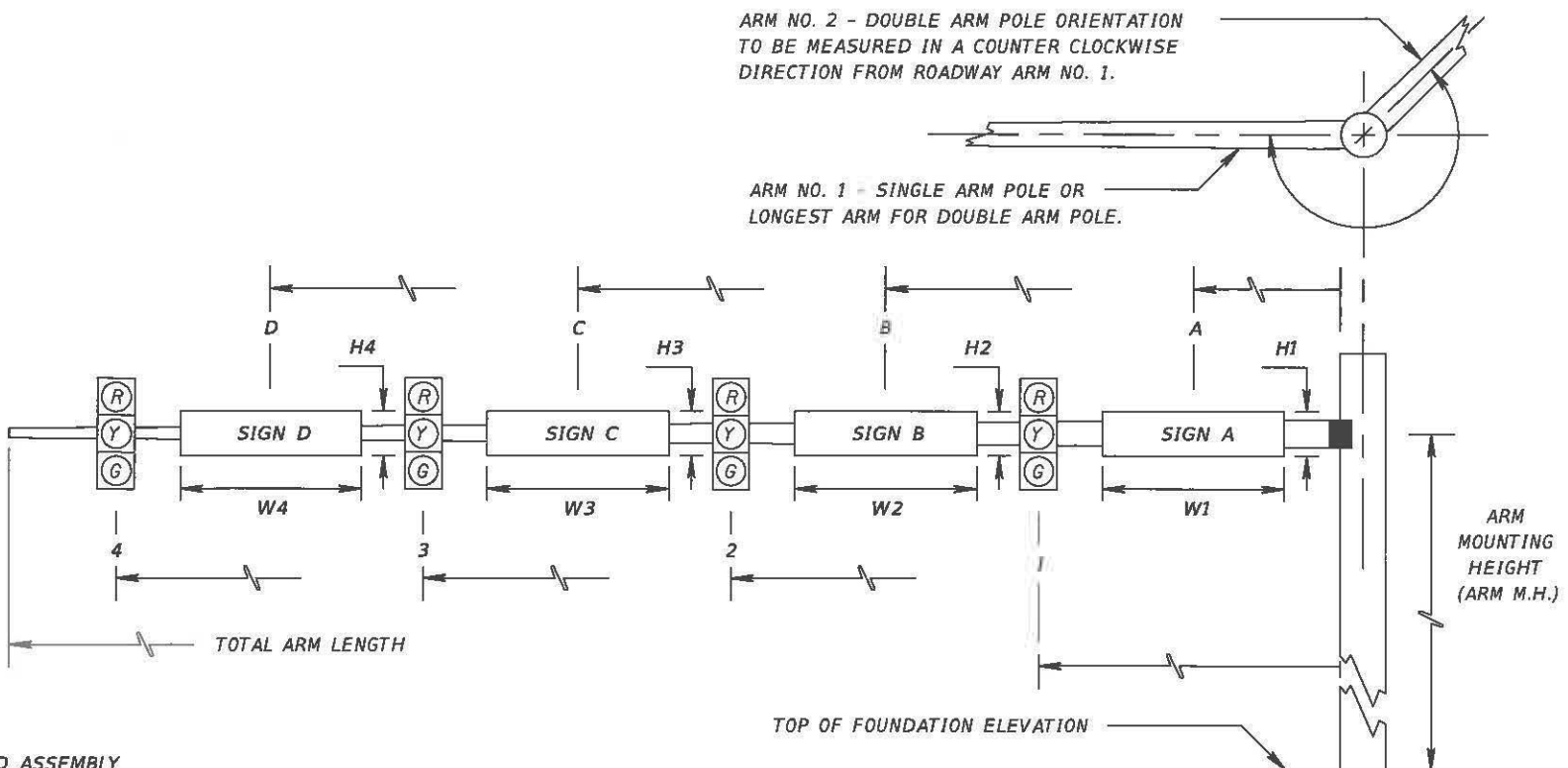
	NO. OF LIGHT FIXTURES	FIXTURE SPACING	PHOTOMETRIC CURVE	WATT	VOLTAGE										
COPY	0	1	d	C	o	a	c	h	m	a	n	L			
SPACE	4	10.2	5.2	5.3	7.3	8.7	8	8.9	8.9	9.9	12.4	9.9	5.3	4	100
COPY	1	2	0	0											
SPACE	4	3	5.9	6.2	5	83.8	20.2								
COPY	R	D		L											
SPACE	48.5	6.1	4.9	48.5	10.9										
COPY	1	1	0	0											
SPACE	86.4	3.2	3.2	6.2	5	4	17.6								
COPY															
SPACE															
COPY															
SPACE															



DESIGNED	PROJECT: SR 590 (NE COACHMAN RD) at CR 535 (OLD COACHMAN RD)	DESCRIPTION: GUIDE SIGN WORKSHEET	APPROVED BY: CHRISTOPHER R. SCHULTZ, P.E. FLA. REG. NO 76854	DATE: 12/20/17
DRAWN				
CHECKED				
REV. NO.	DATE	DESCRIPTION	REV. BY	

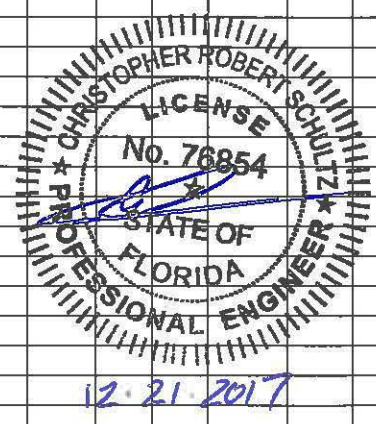
Approved
2017-C-700-013
Brian Bennett
12/21/2017
SHEET: 001020A
2/8/2018
SG-2

SPECIAL INSTRUCTIONS			
ID NO.	PED. BUTTON	PED. SIGNALS	HANDHOLE LOCATION



* DENOTES NUMBER OF SECTIONS IN SIGNAL HEAD ASSEMBLY

ID NO.	SHEET NO.	LOCATION BY STA.	TOP OF FOUNDATION ELEVATION	ROWY ARM NO.	CROWN ELEV.	SIGNAL DATA												VIDEO		SIGN DATA												FINISH COLOR														
						SIGNAL V/H	BACK PLATES Y/N	PED. SIGNAL Y/N	DISTANCE FROM POLE												VIDEO DET. 1	VIDEO DET. 2	TOTAL ARM LENGTH	ARM M.H.	∠ BETWEEN DUAL ARMS 90/270	DISTANCE FROM POLE / HEIGHT AND WIDTH OF SIGN																				
									1	*	2	*	3	*	4	*	5	*	6	*						A	H1	W1	B	H2	W2		C	H3	W3	D	H4	W4								
1	SG-1	1159+15.41, 56.53' LT	32.80'	1	32.31'	V	Y	N	24.0'	3	30.8'	3	33.8'	4	37.1'	4	43.8'	4		20.4'	26.7'	46'	20.8'		5.0'	2'	9'	38.8'	3'	2.5'	42.1'	3'	2.5'													*BROWN
2	SG-1	1159+47.45, 45.52' LT	34.47'	1	33.36'	V	Y	N	39.4'	3	50.4'	4	50.6'	4	57.3'	3	64.5'	3					70.5'	21.4'		15.0'	2'	9'	45.8'	3'	2.5'	55.2'	3'	2.5'												*BROWN
3	SG-1	1158+24.30, 48.15' RT	30.86'	1	30.43'	V	Y	N	5.2'	3	32.8'	3	39.6'	4	40.0'	3	45.9'	4	46.7'	3	38.4'	52.0'	60'	22.9'	90°	13.9'	2'	9'	34.6'	3'	2.5'	50.9'	3'	2.5'											*BROWN	
				2	30.81'	V	Y	Y	27.8'	3	38.7'	4	42.0'	4	48.4'	3	55.0'	3					60'	22.9'		8.9'	2'	9'	37.0'	3'	2.5'	43.7'	3'	2.5'												



12.21.2017

* FINISHED COLOR SHALL BE CHESTNUT BROWN

DESIGNED: _____		PROJECT: SR 590 (NE COACHMAN RD) at CR 535 (OLD COACHMAN RD)	DESCRIPTION: MAST ARM TABULATION SHEET	APPROVED BY: CHRISTOPHER R. SCHULTZ, P.E. FLA. REG. NO 76854	DATE: 12/20/17
DRAWN: _____					PROJECT NO: 001020A
CHECKED: _____					SHEET: SG-3

Approved
 2017-12-20-17
 Brian Bennett
 DATE: 2/8/2018