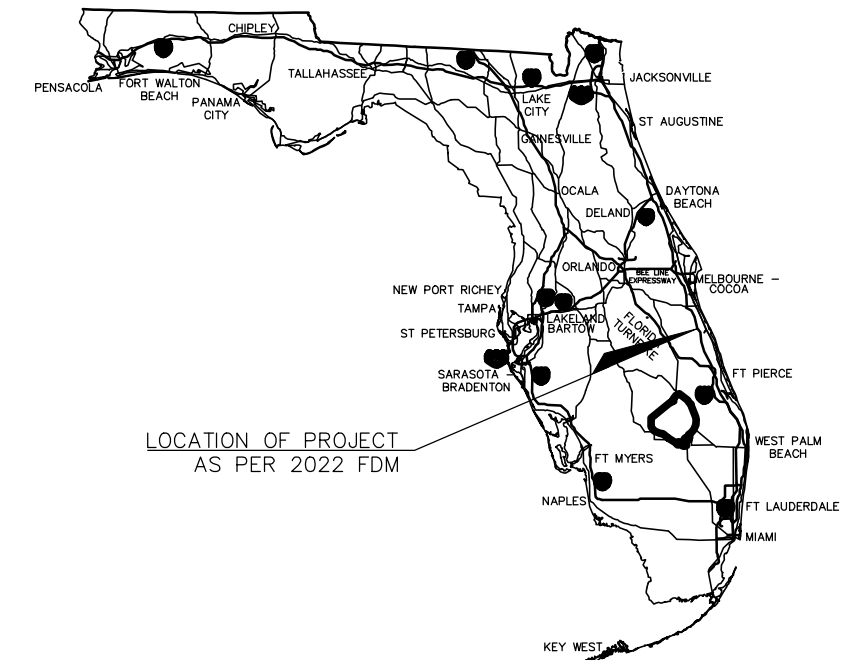


INDIAN RIVER COUNTY BOARD OF COUNTY COMMISSIONERS

CONTRACT PLANS

RAILS TO TRAILS 1.4 MILE EXTENSION OF
THE HISTORIC TRANS-FLORIDA RAIL TRAIL

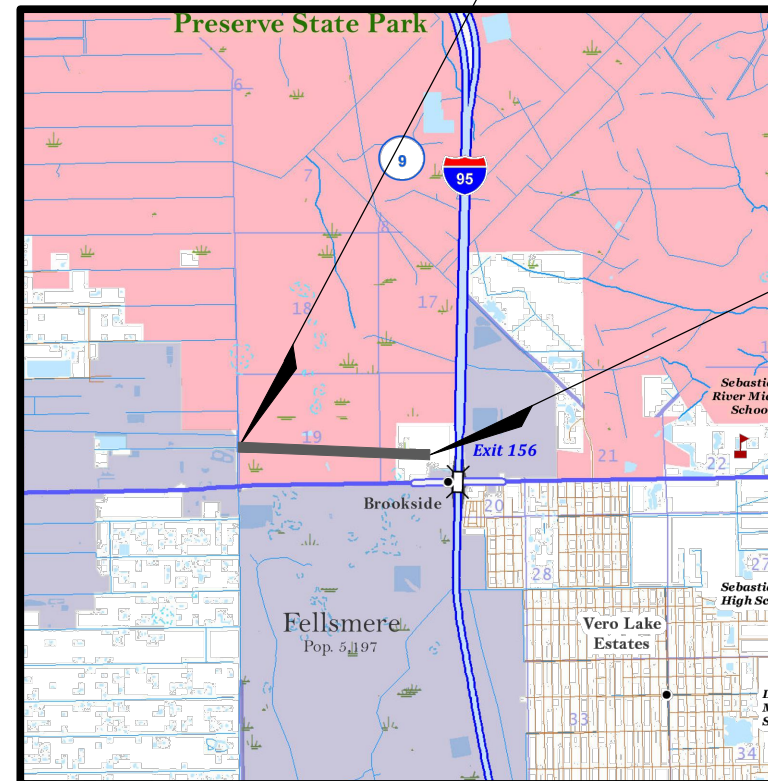


LOCATION OF PROJECT
AS PER 2022 FDM

SHEET NO.	SHEET DESCRIPTION
C1	KEY SHEET
C2	REVISIONS TABLE
C3	SIGNATURE SHEET
C4	SUMMARY OF QUANTITIES, PAY ITEMS & DRAINAGE PIPES
C5	TYPICAL SECTION
C6	WETLAND RE-HYDRATION CULVERT SECTIONS
C7	WETLAND RE-HYDRATION CULVERT SECTION AND SECTION A-A
C8	PIPE INSTALLATION DETAILS
C9	GENERAL NOTES
C9a	LISTED SPECIES SPECIAL CONSTRUCTION NOTES
C10	SITE SIGNAGE AND DETAILS
C11-C15	SITE PLAN WITH AERIAL OVERLAY
C16	EROSION CONTROL DETAILS
C17	DEMOLITION PLAN
C18-C30	PLAN & PROFILE SHEETS

FDOT FM# 446073-1-58-01

BEGIN PROJECT 446073-1-58-01
TRANS-FLORIDA RAILWAY TRAIL
STA. 68+00.00

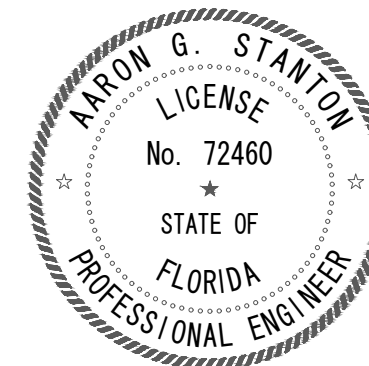


END PROJECT 446073-1-58-01
TRANS-FLORIDA RAILWAY TRAIL
STA. 141+15.04



I.R.C. PROJECT MANAGERS:
METROPOLITAN PLANNING ORGANIZATION:
INFRASTRUCTURE PROJECT MANAGER:
JIM MANN - 772-226-1891
1801 27th STREET
VERO BEACH, FL 32960-3388
Civil Engineer

AARON STANTON, P.E.
P.E. NO.: 72460
MBV ENGINEERING, INC.
1835 20TH STREET
VERO BEACH, FLORIDA 32960
CONTRACT NO.: N/A
VENDOR NO.:
CERTIFICATE OF AUTHORIZATION NO.: 3728



COUNTY COMMISSIONERS:
SUSAN ADAMS, VICE-CHAIRMAN, DISTRICT 1
JOSEPH E. FLESCHER, COMMISSIONER, DISTRICT 2
JOE EARMAN, CHAIRMAN, DISTRICT 3
DERYL LOAR, COMMISSIONER, DISTRICT 4
LAURA MOSS, COMMISSIONER, DISTRICT 5

This item has been digitally signed & sealed by Aaron Stanton, P.E. on the date adjacent to the seal.

Printed copies of this document are not considered signed & sealed and the signature must be verified on any electronic copies.

ELEVATIONS SHOWN HEREIN REFER TO THE NORTH AMERICAN VERTICAL DATUM 1988.
EXISTING CONTOURS SHOWN AT 1.0 FOOT INTERVAL
PROPOSED CONTOURS SHOWN AT 0.5 FOOT INTERVAL

Florida Department of Transportation, FY2021-22 Design Standards eBook (DSeB) and applicable Design Standards Revisions (DSRs) at the following website:
<http://www.fdot.gov/roadway/DesignStandards/Standards.shtm>

APPLICABLE DSRs:

Florida Department of Transportation, JAN, 2022 Standard Specifications for Road and Bridge Construction at the following website:
<http://www.fdot.gov/programmanagement/Implemented/SpecBooks>

CONSTRUCTION CONTRACT NO.	FISCAL YEAR	SHEET NO.
-	22	C1

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

1. REVISIONS TO SHEETS C24 AND C25 TO REMOVE PREVIOUSLY DEPICTED WETLAND IMPACTS AND SHIFT TRAIL NORTH IN THIS AREA.
2. REVISIONS TO SHEETS C9 TO ADD FDEP TEMPORARY FILL DIRECTIVE TO THE CONTRACTOR IF APPLICABLE.
3. REVISION TO SHEET C7 TO ADD SECTION A-A DETAIL PER FPL COMMENTS. REVISIONS TO SHEET C22 TO ADD SEMI-HEAVY DUTY AND HEAVY DUTY PAVEMENT AREAS AND DETAILS WITHIN THE FPL EASEMENT AREA PER FPL COMMENTS.
4. REVISION TO ADD SHEET C9a - LISTED SPECIES SPECIAL CONSTRUCTION NOTES.

REVISIONS	DATE	JOB NO.	21-0311
---	---	DESIGNED	TH
---	---	DRAWN	SS
△ PER FDOT LISTED SPECIES COMMENTS	05/02/2023	DATE	DEC. 2021
△ PER FPL COMMENTS	12/14/2022	CHECKED	AS
△ PER FDEP RAI #1 COMMENTS	09/09/2022	DATE ISSUED	12/20/2022
△ PER SJRWMD FIELD INSPECTION	08/23/2022		



1835 20TH STREET
VERO BEACH, FL 32960
PH. (772) 569-0035
FX. (772) 778-3617

MELBOURNE, FL - PH (321) 253-1510
FT. PIERCE, FL - PH (772) 468-9055

INDIAN RIVER COUNTY

HISTORIC TRANS-FLORIDA RAIL
TRAIL EXTENSION

FLORIDA

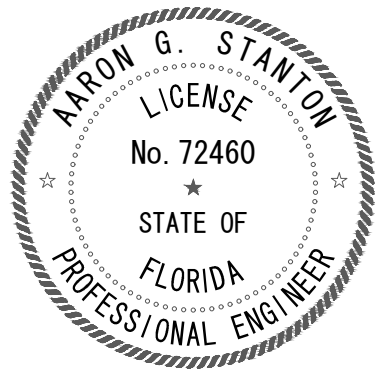
REVISIONS TABLE

DATE:

SHEET

C2

21-0311



MBV ENGINEERING, INC.
 1835 20th STREET
 VERO BEACH, FL 32960
 CERTIFICATE OF AUTHORIZATION 3728

THE ABOVE NAMED PROFESSIONAL ENGINEER SHALL BE RESPONSIBLE FOR THE FOLLOWING SHEETS IN ACCORDANCE WITH RULE 61G15-23.004, F.A.C.

- SHEETS C1 - C30 (CIVIL PORTION)



INDIAN RIVER COUNTY
 PUBLIC WORKS DEPARTMENT
 SURVEY SECTION
 1801 27th STREET
 VERO BEACH, FL 32960
 FLORIDA CERTIFICATE No. 6139

THE ABOVE NAMED PROFESSIONAL SURVEYOR AND MAPPER SHALL BE RESPONSIBLE FOR THE FOLLOWING SHEETS: Existing Conditions Survey and Easement Documents.

REVISIONS	DATE	JOB NO.	21-0311
---	---	DESIGNED	TH
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MOJIA BOWLES VILLAMIZAR & ASSOCIATES
 CONSULTING ENGINEERING CA #3728

INDIAN RIVER COUNTY

HISTORIC TRANS-FLORIDA RAIL
 TRAIL EXTENSION

FLORIDA

SIGNATURE SHEET

DATE:

SHEET

C3

21-0311

SUMMARY OF PAY ITEMS:

- 110-1-1 THIS PROJECT WILL REQUIRE REMOVAL OF EXISTING ASPHALT MILLINGS AND SEMI-FLEXIBLE PAVEMENT FROM STA 127+04.10 TO STA 141+15.04. GRUBBING IS ESTIMATED TO LEAVE SURFACE 6" BELOW THE EXISTING GRADE, ON AVERAGE, AS REFERENCED ON THE SURVEY. REMOVAL AND DISPOSAL SHALL BE INCLUDED UNDER THIS PAY ITEM.

- 120-1 EXCAVATION SHALL INCLUDE REMOVAL AND DISPOSAL. QUANTITY CALCULATED IS IN SITU WITH NO FLUFFING FACTOR APPLIED. QUANTITY CALCULATED USING 100% NON-SITE SOILS FOR TYPE 'B' STABILIZATION SECTION. EXCAVATION MATERIAL UNDER THIS PAY ITEM SHALL BE RE-USED ON SITE AS EMBANKMENT UNDER 120-6.

- 120-6 EMBANKMENT CALCULATED IN SITU, NO COMPACTION FACTOR APPLIED. EXCAVATION FROM PAY ITEM 120-1 SHALL BE USED FOR THIS ITEM.

- 700-1-11 INDIAN RIVER COUNTY SHALL PRODUCE SCRUB JAY SIGN GRAPHIC AND SIGN POST ASSEMBLY. CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLATION AS DEPICTED ON APPROVED PLANS OR AS DIRECTED BY PARK PRESERVE STAFF.

- 519-78 CONTRACTOR SHALL INCLUDE MATERIAL COSTS AND INSTALLATION OF COLLAPSIBLE BOLLARDS. COLLAPSIBLE BOLLARD SHALL BE PER SPECIFICATION AS NOTED IN THE CONTRACT DOCUMENT, OR APPROVED EQUAL UPON REVIEW AND APPROVAL OF APPROVED EQUUAL BY IRC STAFF AND ENGINEER OF RECORD.

PAY ITEM NO.	DESCRIPTION	UNIT	PROJECT QUANTITY
ROADWAY PAY ITEMS			
101-1	MOBILIZATION	LS	1
102-1	MAINTENANCE OF TRAFFIC	LS	1
104-1	ARTIFICIAL COVERINGS / EROSION CONTROL ABATEMENT PRODUCTS	SY	8,150
104-10-3	SEDIMENT BARRIER	LF	14,800
104-15	SOIL TRACKING PREVENTION DEVICE	EA	2
110-1-1	CLEARING AND GRUBBING	AC	4.50
120-1	REGULAR EXCAVATION	CY	2,725
120-6	EMBANKMENT	CY	100
160-4	TYPE B STABILIZATION 12" (LBR-40)	SY	13,100
285-704	OPTIONAL BASE GROUP 4 (6" CEMENTED COQUINA) (LBR 100)	SY	10,500
285-706	OPTIONAL BASE GROUP 6 (8" CEMENTED COQUINA) (LBR 100) (FPL EASEMENT AREA)	SY	202
285-711	OPTIONAL BASE GROUP 11 (12" CEMENTED COQUINA) (LBR 100) (FPL EASEMENT AREA)	SY	43
334-1-12	SUPERPAVE ASPHALT CONCRETE, TRAFFIC B (TYPE SP-9.5, 1.5")	TN	790
334-1-13	SUPERPAVE ASPHALT CONCRETE TRAFFIC C (TYPE SP-9.5) (FPL EASEMENT AREA)	TN	23.4
334-1-13	SUPERPAVE ASPHALT CONCRETE TRAFFIC C (TYPE SP-12.5) (FPL EASEMENT AREA)	TN	33.2
430-175-115	PIPE CULVERT, OPTIONAL MATERIAL, ROUND, 15" S/CD (RCP)	LF	24
430-175-124	PIPE CULVERT, OPTIONAL MATERIAL, ROUND, 24" S/CD (RCP)	LF	80
430-175-224	PIPE CULVERT, OPTIONAL MATERIAL, ROUND, 19"x30" S/CD (ERCP)	LF	40
570-1-2	PERFORMANCE TURF, SOD (MATCH EXISTING)	SY	6,450
700-1-11	SCRUB JAY TRAIL SIGNAGE (INSTALLATION ONLY)	AS	2
700-1-11	SINGLE POST SIGN, UP TO 12SF	AS	1
519-78	BOLLARDS (COLLAPSIBLE)	EA	4
999-1	ASBUILT SURVEYING AND RECORD DRAWING PREPARATION (BY REGISTERED SURVEYOR)	LS	1

SUMMARY OF DRAINAGE PIPES

MARK	STATION	DESCRIPTION	SIZE	LENGTH	START PIPE	START INVERT	END PIPE	END INVERT
#1	68+23.93	RCP	15"	24 LF	10.11 RIGHT	25.00	13.89 RIGHT	25.00
#2	73+71.68	RCP	24"	40 LF	18.57 RIGHT	25.00	21.43 RIGHT	25.00
#3	83+09.52	RCP	24"	40 LF	19.90 RIGHT	26.40	20.10 LEFT	26.40
#4	141+00.0	ERCP	19"x30"	40 LF	17.11 RIGHT	22.50	22.89 LEFT	22.50

REVISIONS	DATE	JOB NO.	21-0311
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FT. PIERCE, FL - PH (772) 468-9055

INDIAN RIVER COUNTY

HISTORIC TRANS-FLORIDA RAIL TRAIL EXTENSION

FLORIDA

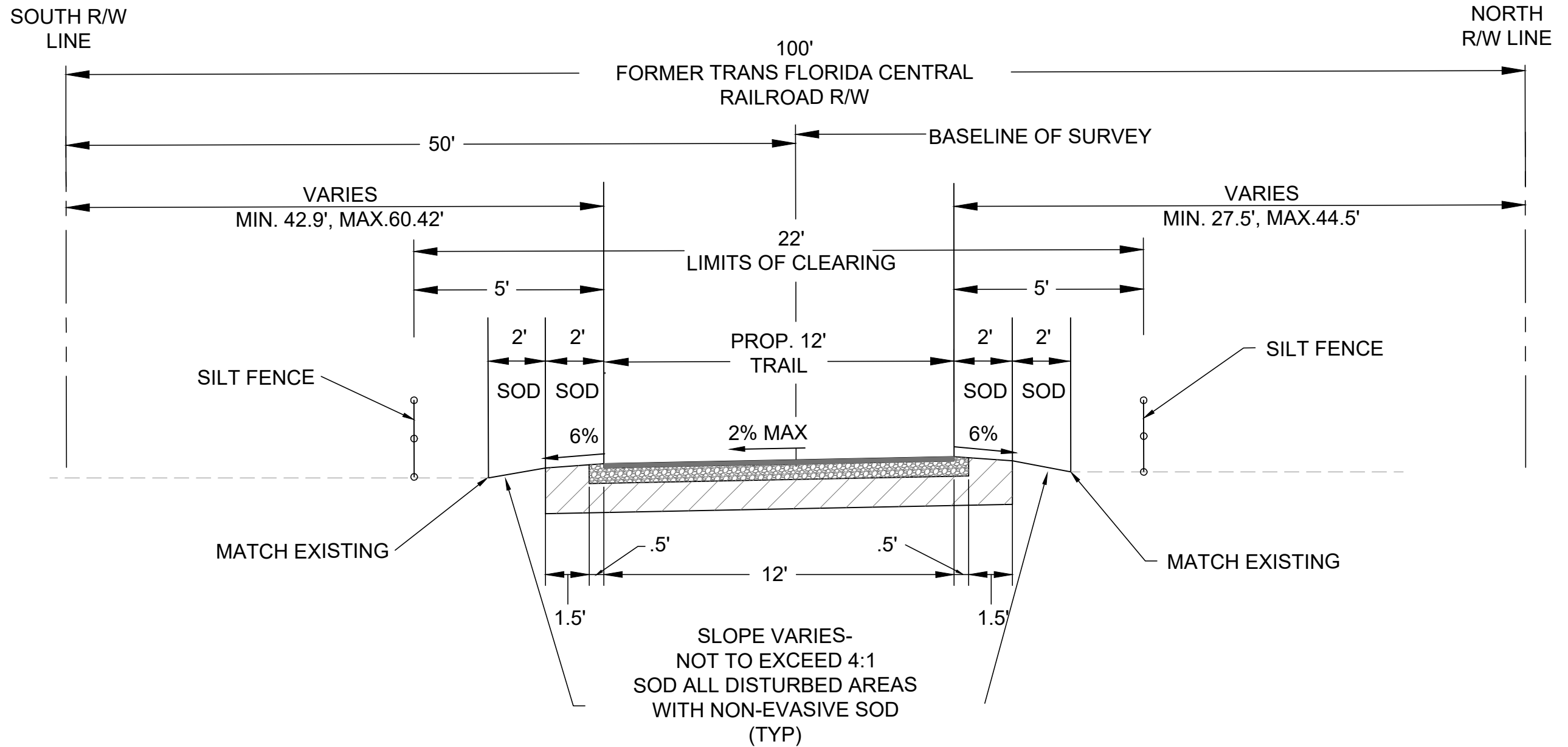
SUMMARY OF QUANTITIES, PAY ITEMS AND DRAINAGE PIPES

DATE:

SHEET

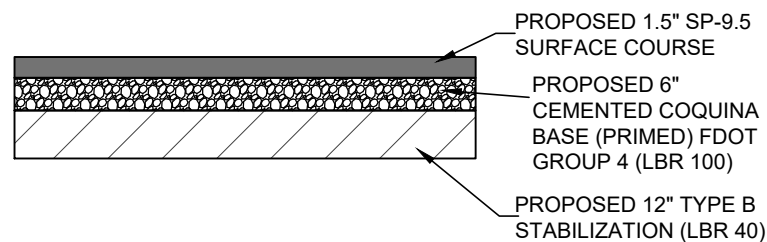
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21-0311



TYPICAL TRAIL SECTION

N.T.S.



TYPICAL TRAIL STRUCTURAL SECTION

N.T.S.

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MBV ENGINEERING, INC.
 MOIA BOWLES VILLAMIZAR & ASSOCIATES
 CONSULTING ENGINEERING CA #3728

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INDIAN RIVER COUNTY

HISTORIC TRANS-FLORIDA RAIL
 TRAIL EXTENSION

FLORIDA

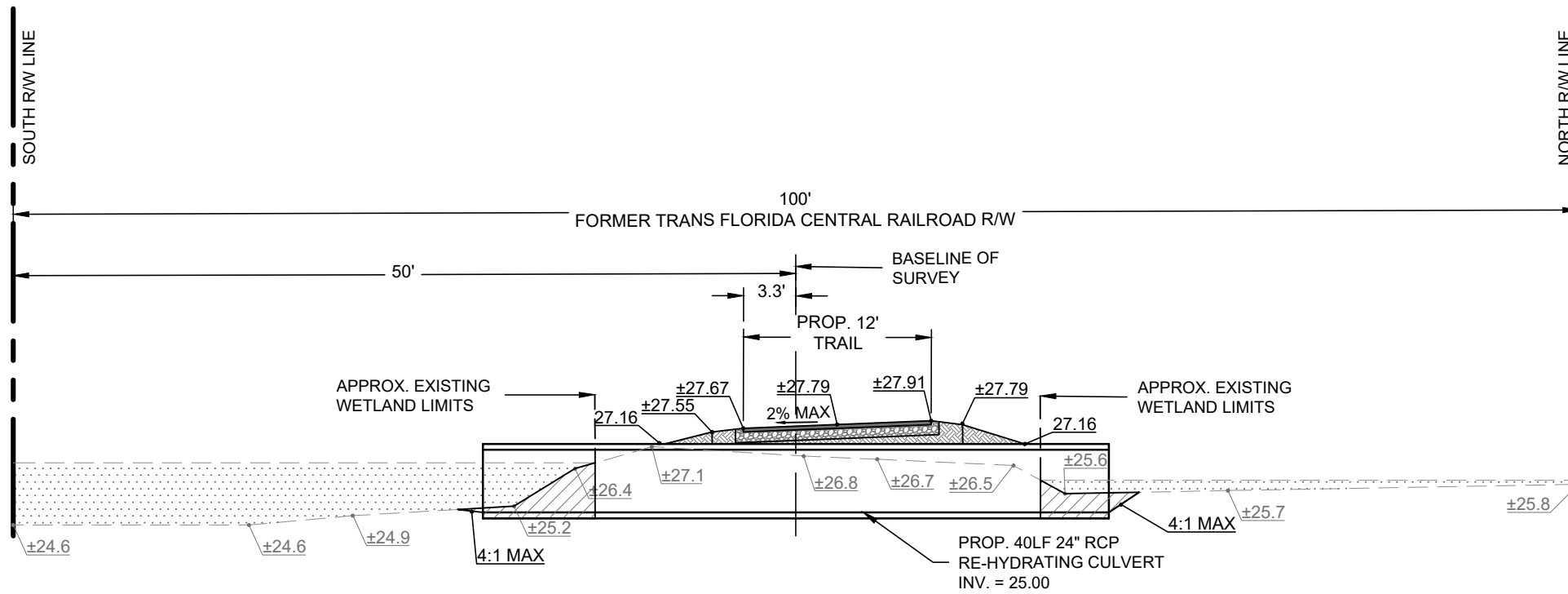
TYPICAL SECTION

DATE:

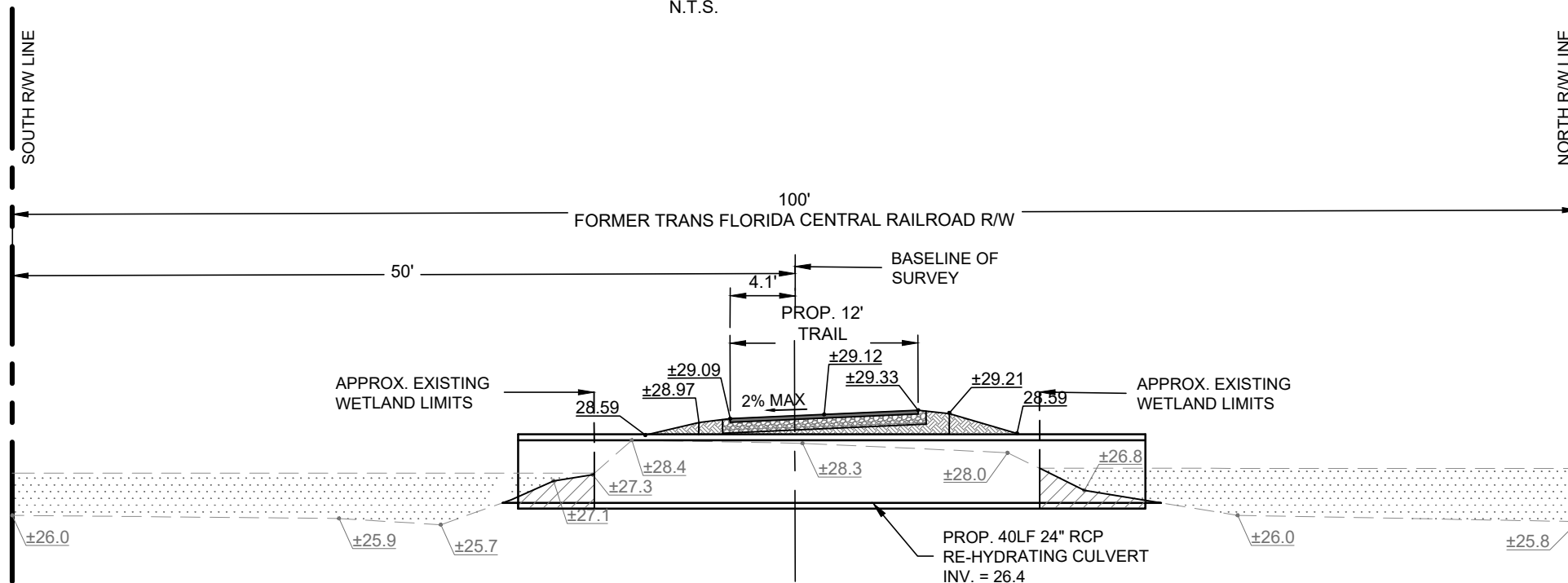
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C5

21-0311



CULVERT CROSSING #1
STATION 73+71.68
 N.T.S.



CULVERT CROSSING #2
STATION 83+09.52
 N.T.S.

REVISIONS	DATE	JOB NO.	21-0311
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INDIAN RIVER COUNTY

HISTORIC TRANS-FLORIDA RAIL
 TRAIL EXTENSION

FLORIDA

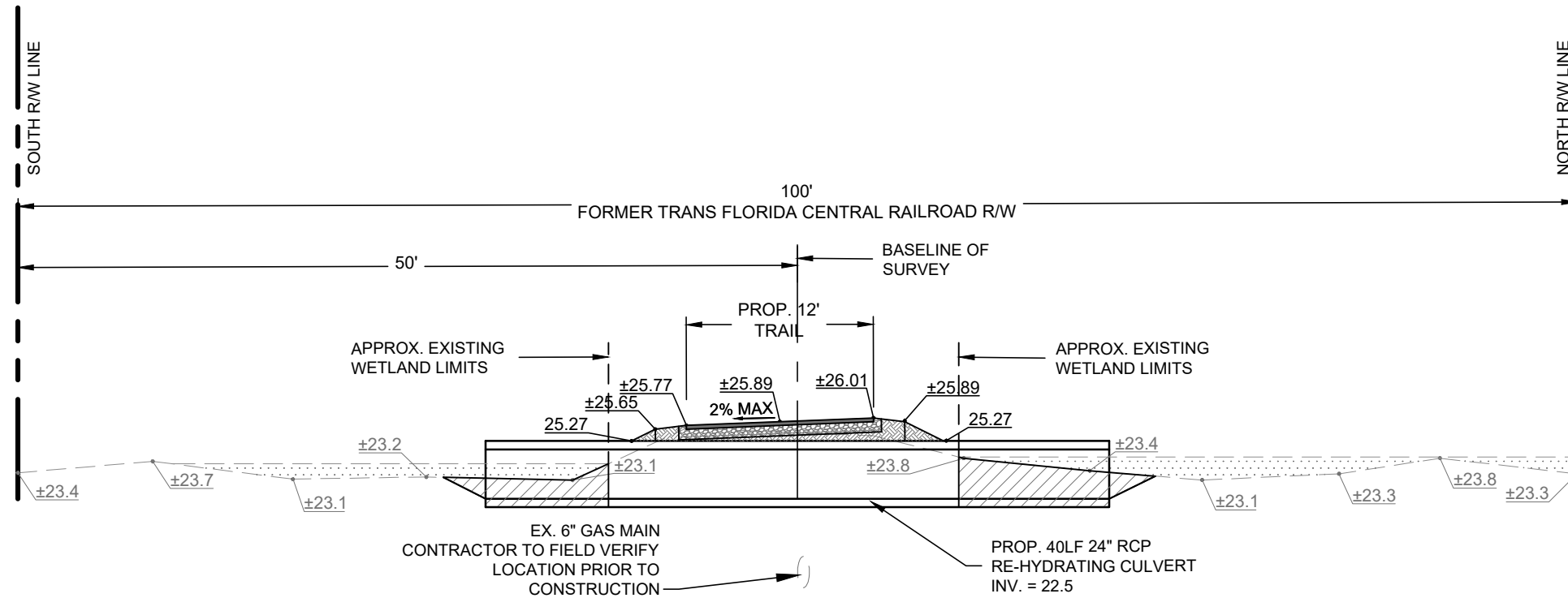
WETLAND RE-HYDRATION CULVERT
 SECTIONS

DATE:

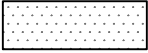


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21-0311

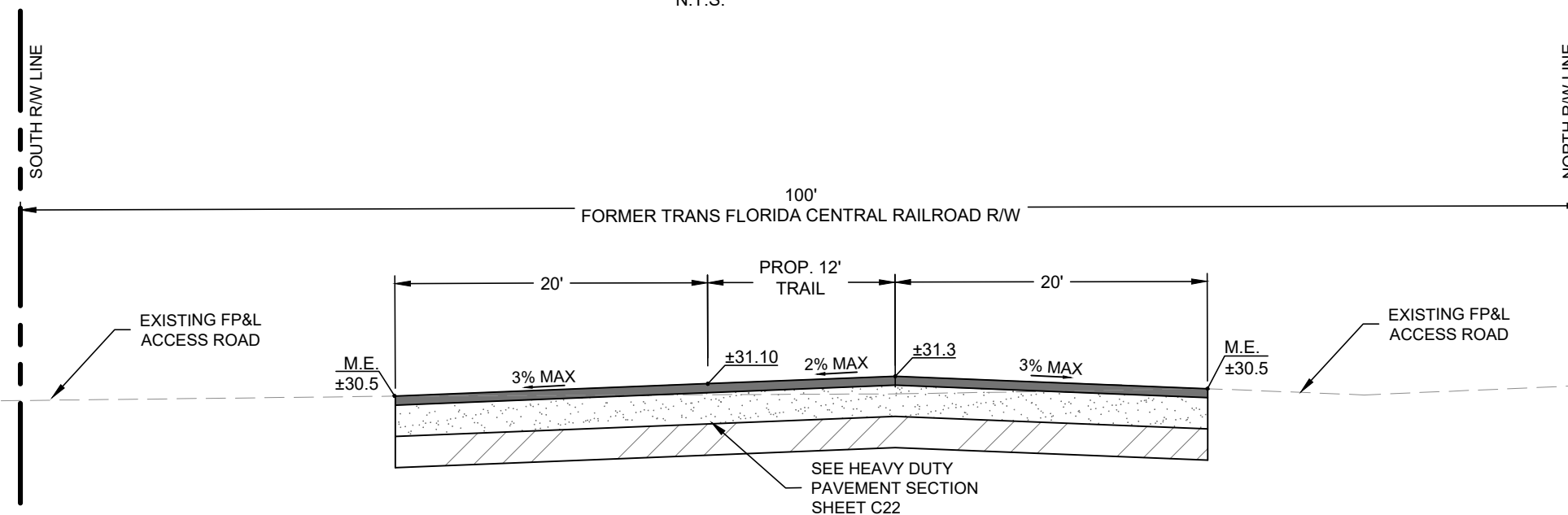


LEGEND

-  EXISTING WETLANDS
-  PROPOSED FILL
-  PROPOSED EXCAVATION

CULVERT CROSSING #3
STATION 141+00

N.T.S.



SECTION A-A
STATION 96+34.99 TO 96+66.72

N.T.S.

REVISIONS	DATE	JOB NO.	21-0311
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 MOJIA BOWLES VILLAMIZAR & ASSOCIATES
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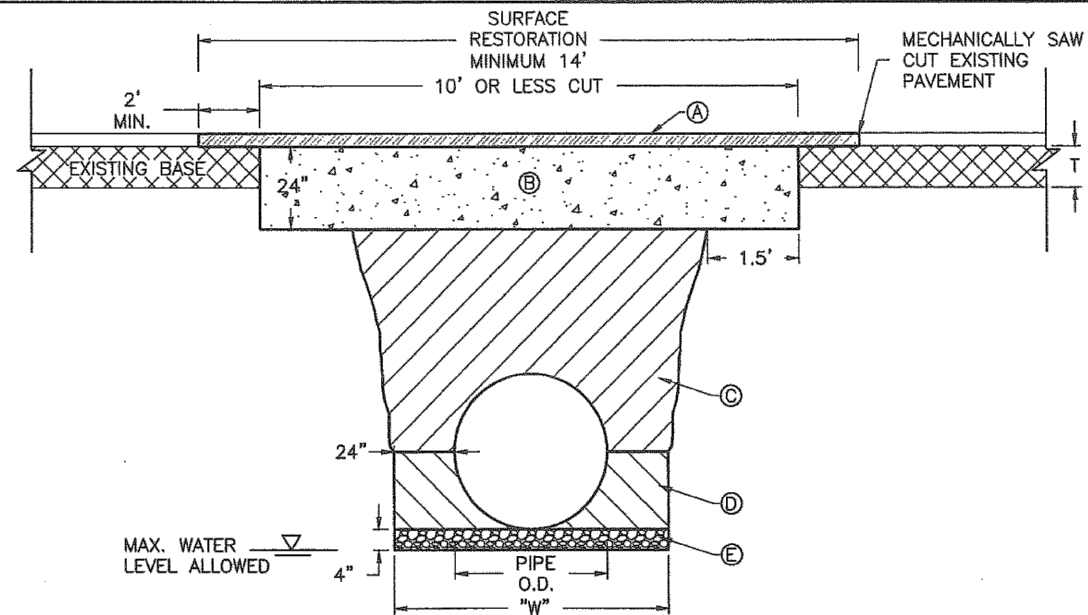
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HISTORIC TRANS-FLORIDA RAIL TRAIL EXTENSION
 INDIAN RIVER COUNTY FLORIDA

WETLAND RE-HYDRATION CULVERT SECTION AND SECTION A-A

DATE:	SHEET
	C7
	21-0311



**STORMWATER/UTILITY PIPE
INSTALLATION**

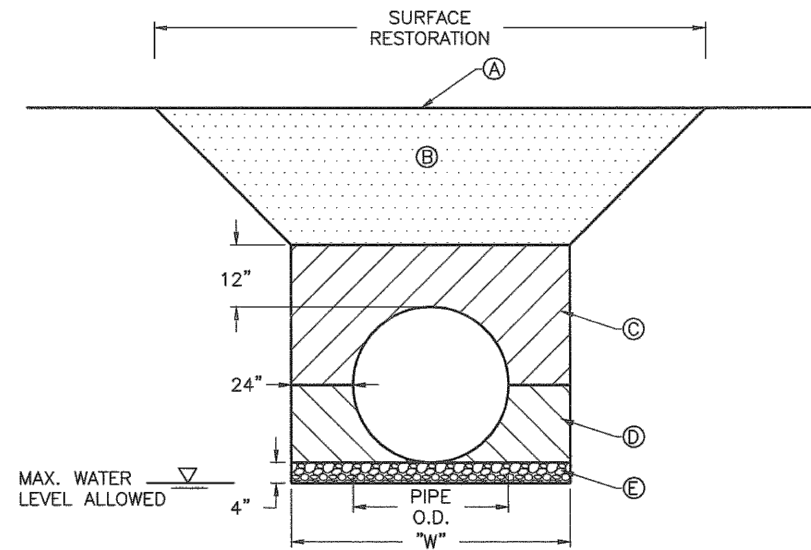
NOTES:

1. UTILITY CONSTRUCTION WITHIN THE RIGHT-OF-WAY SHALL COMPLY WITH COUNTY CODE CHAPTER 312.
 - 1.1. ALL INSTALLATIONS LESS THAN 12" DIAMETER AND NON GRAVITY UTILITIES SHALL BE BY DIRECTIONAL BORE.
 - 1.2. PARTIAL LANE CUTS REQUIRE A MINIMUM OF SINGLE LANE RESTORATION.
 2. WHERE SOIL CONDITIONS CANNOT BE MAINTAINED AS SHOWN ABOVE, PROVIDE APPROVED METHOD OF CONSTRUCTION FOR APPROVAL BY THE COUNTY ENGINEER OR DESIGNEE PRIOR TO INSTALLATION.
 3. SHORING MAY BE REQUIRED IN ACCORDANCE WITH ALL INDUSTRY STANDARDS.
 4. NEW SURFACING MATERIALS SHALL BE CONSISTENT OR BETTER THAN EXISTING CONDITIONS AND SHALL HAVE BUTT JOINTS (2.5 INCH MINIMUM THICKNESS).
 5. ALL ROADWAY RESTORATION SHALL COMPLY WITH INDIAN RIVER COUNTY PUBLIC WORKS AND FDOT STANDARDS (LATEST EDITION).
 6. MINIMUM TRENCH WIDTH "W" = PIPE O.D. PLUS 2'-0" ON EACH SIDE.
- Ⓐ MINIMUM EXISTING PAVEMENT DEPTH OR PER COUNTY ROADWAY DESIGN CRITERIA DETAIL, WHICHEVER IS GREATER.
- Ⓑ FLOWABLE FILL AS DEFINED AS NON-EXCAVATABLE IN ACCORDANCE WITH FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, SECTION 121, WITH STRENGTH OF 125-300 PSI.
- Ⓒ A.A.S.H.T.O. TYPE A-3 MATERIAL IN MAXIMUM 6" LIFTS COMPACTED AT 98% A.A.S.H.T.O. T-180.
- Ⓓ A.A.S.H.T.O. TYPE A-3 MATERIAL IN MAXIMUM 4" LIFTS COMPACTED AT 98% A.A.S.H.T.O. T-180. EXCAVATABLE FLOWABLE FILL IS ALLOWED WITH PRIOR APPROVAL OF PROPOSED MATERIAL STRENGTH BY THE COUNTY ENGINEER OR DESIGNEE.
- Ⓔ ¾" DIAMETER, WASHED BEDDING ROCK OR PEA ROCK WHERE UNSUITABLE BEDDING MATERIAL EXISTS OR IF DEWATERING IS REQUIRED. SUITABLE MATERIAL IS DEFINED AS STABLE GRANULAR MATERIAL FREE OF ROCK FORMATION, OTHER FOREIGN FORMATIONS AND CONSTRUCTED TO UNIFORM GRADE AND LINE.

LAND DEVELOPMENT
DESIGN STANDARDS AND SPECIFICATIONS

DATE: 11/1/2016
INDEX: 1B
James William Ennis, P.E.
Florida Reg. No. 71938
Public Works - County Engineer

TRENCH
(PAVED AREAS)
10' OR LESS CUT



**STORMWATER/UTILITY PIPE
INSTALLATION**

NOTES:

1. UTILITY CONSTRUCTION WITHIN THE RIGHT-OF-WAY SHALL COMPLY WITH COUNTY CODE CHAPTER 312.
 2. WHERE SOIL CONDITIONS CANNOT BE MAINTAINED AS SHOWN ABOVE, PROVIDE METHOD OF CONSTRUCTION FOR APPROVAL BY COUNTY ENGINEER OR DESIGNEE PRIOR TO INSTALLATION.
 3. SHORING MAY BE REQUIRED IN ACCORDANCE WITH ALL INDUSTRY STANDARDS.
 4. MINIMUM TRENCH WIDTH "W" = PIPE O.D. PLUS 2'-0" ON EACH SIDE.
- Ⓐ MATCH EXISTING GROUND WITH SMOOTH, LEVEL TRANSITION.
- Ⓑ UNPAVED ROADS IN ROW SHALL CONSIST OF 8" LIMEROCK BASE OR COQUINA SHELL IN A MINIMUM OF (2) 4" LIFTS WITH A MINIMUM LBR OF 100 COMPACTED TO 98% MAXIMUM DENSITY PER A.A.S.H.T.O. T-180. WHEN INSTALLATION IS NOT LOCATED IN A TRAVEL LANE, RESTORATION SHALL BE ACCORDING TO Ⓒ BELOW WITH SOD LAID WITHIN THREE DAYS OF FINAL GRADING.
- Ⓒ A.A.S.H.T.O. TYPE A-3 MATERIAL IN MAXIMUM 6" LIFTS COMPACTED AT 98% A.A.S.H.T.O. T-180.
- Ⓓ A.A.S.H.T.O. TYPE A-3 MATERIAL IN MAXIMUM 4" LIFTS COMPACTED AT 98% A.A.S.H.T.O. T-180. EXCAVATABLE FLOWABLE FILL IS ALLOWED WITH PRIOR APPROVAL OF PROPOSED MATERIAL STRENGTH BY COUNTY ENGINEER OR DESIGNEE.
- Ⓔ ¾" DIAMETER, WASHED BEDDING ROCK OR PEA ROCK WHERE UNSUITABLE BEDDING MATERIAL EXISTS OR DEWATERING IS REQUIRED. SUITABLE MATERIAL IS DEFINED AS STABLE GRANULAR MATERIAL FREE OF ROCK FORMATION, OTHER FOREIGN FORMATIONS AND CONSTRUCTED TO UNIFORM GRADE AND LINE.

LAND DEVELOPMENT
DESIGN STANDARDS AND SPECIFICATIONS

DATE: 11/1/2016
INDEX: 2
James William Ennis, P.E.
Florida Reg. No. 71938
Public Works - County Engineer

TRENCH
(UNPAVED AREAS)

REVISIONS	DATE	JOB NO.	21-0311
---	---	DESIGNED	TH
---	---	DRAWN	SS
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MOJA BOWLES VILLAMIZAR & ASSOCIATES
CONSULTING ENGINEERING CA #9728

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INDIAN RIVER COUNTY

HISTORIC TRANS-FLORIDA RAIL
TRAIL EXTENSION

FLORIDA

PIPE INSTALLATION DETAILS

DATE:

SHEET

C8

21-0311

GENERAL NOTES:

1. GOVERNING SPECIFICATIONS: FLORIDA DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" DATED JANUARY 2022 AND INDIAN RIVER COUNTY STANDARD SPECIFICATIONS.
2. CONSTRUCTION DETAILS SHALL BE IN ACCORDANCE WITH FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD PLANS FY 2021-22.
3. ALL STATIONS AND OFFSETS ARE REFERENCED TO BASELINE OF SURVEY.
4. ALL DISTURBED R/W SHALL BE SODDED WITHIN SEVEN DAYS OF FINAL GRADING. ALL SOD PLACED ON A SLOPE STEEPER THAN 4:1 SHALL BE PEGGED. COST OF PEGGING SOD SHALL BE INCLUDED IN PERFORMANCE TURF UNIT COST. ALL SOD TO BE NON-INVASIVE.
5. THE CONTRACTOR WILL RESTORE ALL AREAS DISTURBED BY THIS CONSTRUCTION TO A CONDITION EQUAL TO, OR BETTER THAN THAT NOW EXISTING.
6. ITEMS IN CONFLICT WITH CONSTRUCTION SUCH AS EXISTING SIDEWALKS, DRAINAGE STRUCTURES, PAVEMENT AND BASE AND EXCESS EXCAVATIONS ARE TO BE REMOVED BY CONTRACTOR AND DISPOSED OF IN A LEGAL AND PROPER MANNER AWAY FROM THE JOB SITE AT THE CONTRACTOR'S EXPENSE, UNLESS THE ITEMS ARE SPECIFIED TO BE REUSED ON THE PROJECT.
7. EXISTING TREES WITHIN THE PROJECT LIMITS ARE INTENDED TO REMAIN, UNLESS THEY ARE IN DIRECT CONFLICT WITH THE PROPOSED IMPROVEMENTS OR INDICATED TO BE REMOVED. CONTRACTOR SHALL TAKE DUE CARE AS TO PROTECT EXISTING TREES WITHIN THE PROJECT LIMITS THAT ARE NOT IN DIRECT CONFLICT WITH THE IMPROVEMENTS. THE CONTRACTOR SHALL REMOVE ALL EXOTIC VEGETATION LOCATED WITH THE PROJECT LIMITS WITHIN PUBLIC RIGHT OF WAY. COST OF TREE PRESERVATION SHALL BE INCLUDED WITHIN PAY ITEM 104-2 AND EXOTIC VEGETATION REMOVAL SHALL BE INCLUDED WITHIN PAY ITEM 110-1-1.
8. STAGING AND MATERIAL STORAGE SHALL NOT BE CONDUCTED ON ANY ABUTTING PRIVATE PROPERTY WITHOUT WRITTEN AGREEMENT APPROVAL FROM THE OWNER. UPON PROJECT COMPLETION, SHOULD CONTRACTOR HAVE STAGED AND/OR STORED MATERIAL ON PRIVATE PROPERTY THE CONTRACTOR SHALL OBTAIN A WRITTEN RELEASE FROM THE PROPERTY OWNER. A COPY OF THE WRITTEN RELEASE SHALL BE PROVIDED TO THE COUNTY.
9. NO EXISTING BASE MATERIAL REMOVED IN EXCAVATION SHALL BE REUSED AS PROPOSED BASE MATERIAL.
10. CLEARING AND GRUBBING - WITHIN THE LIMITS OF CONSTRUCTION, ALL VEGETATION AND ROOT MATERIAL SHALL BE REMOVED.
11. ALL VEGETATION, DEBRIS, A.C., CONCRETE OR OTHER UNSUITABLE MATERIAL SHALL BE DISPOSED OF OFF-SITE BY THE CONTRACTOR IN LEGAL MANNER AT THE CONTRACTOR'S EXPENSE.
12. SOD PLACEMENT SHALL BE AS PER F.D.O.T. INDEX #105. SOD TYPE SHALL MATCH EXISTING GRASS AND NOT BE OF ANY TYPE OF INVASIVE SPECIES.
13. ANY EXISTING ROADWAY AND/OR UTILITY THAT IS DAMAGED BY THE CONTRACTOR SHALL BE CORRECTED AT THE CONTRACTOR'S EXPENSE.
14. EXISTING DRAINAGE STRUCTURES AND PIPES WITHIN THE CONSTRUCTION LIMITS SHALL REMAIN UNLESS OTHERWISE NOTED.
15. SURFACE COURSE - TYPE F.C. 9.5 AND STRUCTURAL COURSE-TYPE S.P. 12.5 SHALL CONFORM TO THE REQUIREMENTS OF THE F.D.O.T. SPECIFICATIONS, 2022 EDITION, SECTION 334, THE MINIMUM COMPACTED THICKNESS TO BE AS NOTED.
16. EMBANKMENT, SUBGRADE, BASE AND ASPHALT ARE "IN PLACE" MEASUREMENTS.
17. THERE SHALL BE NO EXCAVATIONS LEFT OPEN AFTER END OF SHIFT, UNLESS POSITIVELY SHIELDED.
18. ALL CONSTRUCTION EQUIPMENT AND MATERIALS SHALL BE STORED IN AN AREA DESIGNATED BY THE PARKS MANAGEMENT STAFF TO AVOID IMPACTS TO THE ENVIRONMENTALLY SENSITIVE AREAS.
19. THE CONTRACTOR SHALL NOTIFY IRC MPO AT (772) 226-1034 & FDEP PARKS MANAGEMENT STAFF, 48 HOURS PRIOR TO BEGINNING CONSTRUCTION.
20. GUARANTEE - ALL MATERIAL AND EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR UNDER THIS CONTRACT SHALL BE GUARANTEED FOR A PERIOD OF ONE YEAR FROM THE DATE OF FINAL ACCEPTANCE THEREOF, AGAINST DEFECTIVE MATERIALS, DESIGN AND WORKMANSHIP. UPON RECEIPT OF NOTICE FROM THE OWNER OF FAILURE OF ANY PART OF THE GUARANTEED EQUIPMENT OR MATERIALS DURING THE GUARANTY PERIOD, THE AFFECTED PART, PARTS OR MATERIALS SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR AT NO EXPENSE TO THE OWNER. IN THE EVENT THE CONTRACTOR FAILS TO MAKE THE NECESSARY REPLACEMENT OR REPAIRS WITHIN SEVEN DAYS AFTER NOTIFICATION BY THE OWNER, THE OWNER MAY ACCOMPLISH THE WORK AT THE EXPENSE OF THE CONTRACTOR. (FINAL ACCEPTANCE IS CONSIDERED TO BE FINAL APPROVAL BY THE I.R.C. BOARD OF COUNTY COMMISSIONERS.)
21. ALL CHANGES SHALL BE APPROVED IN WRITING BY INDIAN RIVER COUNTY AND THE ENGINEER OF RECORD.

22. ATTENTION IS DIRECTED TO THE FACT THAT THESE PLANS MAY HAVE BEEN CHANGED IN SIZE BY REPRODUCTION. THIS MUST BE CONSIDERED WHEN OBTAINING SCALED DATA.
23. CONTRACTOR SHALL UTILIZE CONSTRUCTION METHODS AND DEVICES SUCH AS TURBIDITY BARRIERS, SYNTHETIC BALES AND FLOATING SILT BARRIERS WHERE NECESSARY TO COMPLY WITH ALL LOCAL, STATE AND FEDERAL WATER QUALITY STANDARDS.
24. CONTRACTOR TO INCLUDE ALL CONSTRUCTION SURVEY STAKE-OUT, AS-BUILTS AND SOILS / COMPACTION TESTING IN BID.

FDEP SPECIAL CONDITIONS:

1. CONTRACTOR SHALL DECONTAMINATE ALL EQUIPMENT BEFORE ENTERING OR LEAVING THE PROJECT AREA, TO ENSURE THAT NO PROPAGATES OR REPRODUCTIVE MATERIAL IS TRANSPORTED BETWEEN TREATMENT SITES OR MANAGED AREAS.
2. IT SHALL BE THE RESPONSIBILITY OF THE ST. SEBASTIAN RIVER PRESERVE STATE PARK STAFF TO INSPECT ALL EQUIPMENT PRIOR TO WORK COMMENCING ON THE FIRST DAY AT THE PROJECT SITE, ON ANY OCCASION THAT THE EQUIPMENT LEAVES THE PROJECT SITE, AND ANY TIME DURING THE COURSE OF THE OPERATION. ARRANGEMENTS FOR INSPECTIONS MUST BE MADE IN ADVANCE BY THE CONTRACTOR WITH PARK STAFF.

UNIDENTIFIED AREAS OF CONTAMINATION

3. WHEN ENCOUNTERING OR EXPOSING ANY ABNORMAL CONDITION INDICATING THE PRESENCE OF A HAZARDOUS OR TOXIC WASTE, OR CONTAMINANTS, CEASE OPERATIONS IMMEDIATELY IN THE VICINITY AND NOTIFY THE INDIAN RIVER COUNTY LAP ENGINEER. THE PRESENCE OF TANKS OR BARRELS; DISCOLORED EARTH, METAL, WOOD, GROUND WATER, ETC.; VISIBLE FUMES; ABNORMAL ODORS; EXCESSIVELY HOT EARTH; SMOKE; OR OTHER CONDITIONS THAT APPEAR ABNORMAL MAY INDICATE HAZARDOUS OR TOXIC WASTES OR CONTAMINANTS AND MUST BE TREATED WITH EXTREME CAUTION.
4. MAKE EVERY EFFORT TO MINIMIZE THE SPREAD OF CONTAMINATION INTO UNCONTAMINATED AREAS. IMMEDIATELY PROVIDE FOR THE HEALTH AND SAFETY OF ALL WORKERS AT THE JOB SITE AND MAKE PROVISIONS NECESSARY FOR THE HEALTH AND SAFETY OF THE PUBLIC THAT MAY BE EXPOSED TO ANY POTENTIALLY HAZARDOUS CONDITIONS. PROVISIONS SHALL MEET ALL APPLICABLE LOCAL, STATE, AND FEDERAL LAWS, RULES, REGULATIONS OR CODES COVERING HAZARDOUS CONDITIONS AND WILL BE IN A MANNER COMMENSURATE WITH THE GRAVITY OF THE CONDITIONS.
5. THE INDIAN RIVER COUNTY LAP ENGINEER WILL COORDINATE AND MOBILIZE A QUALIFIED CONTAMINATION ASSESSMENT/REMEDATION (C.A.R.) CONTRACTOR. QUALIFICATIONS OF SUCH C.A.R. CONTRACTOR SHALL INCLUDE, BUT NOT BE LIMITED TO: EXPERIENCE AND PERSONNEL TO PREPARE CONTAMINATION ASSESSMENT PLANS, CONDUCT CONTAMINATION ASSESSMENTS, PREPARE SITE ASSESSMENT REPORTS, REMEDIATION PLANS, IMPLEMENT REMEDIAL ACTION PLANS, RISK BASED CORRECTIVE ACTIONS, STORAGE TANKS SYSTEM REMOVAL, HIGHWAY SPILL RESPONSE AS WELL AS EXPERIENCE WITH INFRASTRUCTURE/CONSTRUCTION ACTIVITIES WITHIN (POTENTIALLY) CONTAMINATED AREAS SPECIFIC TO TRANSPORTATION SYSTEMS.
6. ALL THE WORK PERFORMED BY THE C.A.R. CONTRACTOR SHALL BE PERFORMED IN COMPLIANCE WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL REGULATIONS GOVERNING WORKER SAFETY AND ENVIRONMENTAL REGULATIONS. THIS IS TO INCLUDE OCCUPATIONAL EXPOSURE TO CONTAMINATED SOILS, GROUNDWATER, WASTES AND ATMOSPHERE DURING THE CONSTRUCTION OF ALL FEATURES INCLUDED IN THE CONSTRUCTION PLANS. IN ADDITION, THE C.A.R. CONTRACTOR MUST BE STAFFED WITH FLORIDA LICENSED TECHNICAL PROFESSIONALS (GEOLOGISTS AND ENGINEERS) WHO WILL BE INVOLVED WITH THE PROJECT AND KNOWLEDGEABLE OF THE WORK ACTIVITIES CONDUCTED WITHIN THE IDENTIFIED CONTAMINATED AREAS AND WHO WOULD SIGN AND SEAL PROJECT REPORTS AS REQUIRED FOR SUBMITTAL TO THE APPROPRIATE ENVIRONMENTAL REGULATORY AGENCIES.
7. THE INDIAN RIVER COUNTY LAP ENGINEER WILL IMMEDIATELY NOTIFY THE FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT) DISTRICT IV CONTAMINATION IMPACT COORDINATOR (DCIC) AT (954) 777-4286 AFTER ENCOUNTERING THE UNIDENTIFIED AREAS OF CONTAMINATION. PRELIMINARY INVESTIGATION BY THE C.A.R. CONTRACTOR WILL DETERMINE THE COURSE OF ACTION NECESSARY FOR SITE SECURITY AND THE STEPS NECESSARY UNDER APPLICABLE LAWS, RULES, AND REGULATIONS FOR ADDITIONAL ASSESSMENT AND/OR REMEDIATION WORK TO RESOLVE THE CONTAMINATION ISSUE.
8. FOLLOWING COMPLETION OF THE PROJECT, THE C.A.R. CONTRACTOR SHALL BE REQUIRED TO PROVIDE COPIES OF ALL REPORTS SUBMITTED TO REGULATORY AGENCIES, WASTE MATERIAL PROFILES, MANIFESTS AND/OR DISPOSAL RECEIPTS FOR THE HANDLING OF ALL CONTAMINATED MEDIA INCLUDING BUT NOT LIMITED TO GROUND WATER, WASTE WATER, SOILS, SOLID WASTES, SLUDGE, HAZARDOUS WASTES, AIR MONITORING RECORDS AND SAMPLE RESULTS FOR ALL MATERIALS TESTED AND ANALYZED TO THE INDIAN RIVER COUNTY LAP ENGINEER AND THE FDOT DCIC.

9. THIS PROJECT DOES NOT ANTICIPATE THE USE OF ANY TEMPORARY FILLS. SHOULD THE CONTRACTOR NEED TO UTILIZE TEMPORARY FILL DURING THE CONSTRUCTION PHASE, THESE FILLS SHALL BE REMOVED UPON COMPLETION AND THE AREA RESTORED TO PRE-CONSTRUCTION CONDITIONS PURSUANT TO F.A.C. 62-33.217.

INVASIVE SPECIES MANAGEMENT: DECONTAMINATION GUIDELINES FOR EQUIPMENT AND PPE

PRELIMINARY STATEMENT EXAMPLES:

1. THE CONTRACTOR SHALL REQUIRE ALL PERSONNEL TO PRACTICE PROPER SANITATION PROCEDURES FOR ALL EQUIPMENT (INCLUDING PERSONAL PROTECTIVE GEAR) TO AVOID UNNECESSARY SPREADING OF INVASIVE AND EXOTIC PEST PLAN SPECIES WITHIN AND FROM THE TREATMENT SITE.
2. CONTRACTORS WORKING ON INVASIVE EXOTIC REMOVAL PROJECTS MUST ADHERE TO THE FOLLOWING PROTOCOL:
 - A. MANDATORY DECONTAMINATION PROTOCOLS MUST BE FOLLOWED FOR VEHICLES AND EQUIPMENT PRIOR TO ENTERING INDIAN RIVER COUNTY FROM OUTSIDE OF THE COUNTY
 - B. WHEN MOVING EQUIPMENT FROM SIT TO SITE WITHIN INDIAN RIVER COUNTY, DECONTAMINATION REQUIREMENTS WILL BE AT THE DISCRETION OF THE PROJECT MANAGER AND WILL BE DEPENDANT UPON THE EXOTIC SPECIES THAT WERE TREATED AT THE PREVIOUS SITE, AND ON THE NATURE OF THE TREATMENT SITES.
 - C. IF DECONTAMINATION IS REQUIRED BY THE PROJECT MANAGER THEN THE CONTRACTOR MUST UTILIZE A DESIGNATED DECONTAMINATION SITE WITHIN INDIAN RIVER COUNTY. THE PROJECT MANAGER SHALL SUPPLY THE CONTRACTOR WITH A LIST OF DESIGNATED DECONTAMINATION SITES (THESE MAY INCLUDE COUNTY TRANSFER STATIONS AND DOT STORAGE SITES).
3. PRIOR TO THE COMMENCEMENT OF AN INVASIVE PLAN REMOVAL PROJECT, THE SITE MANAGER SHALL ADDRESS THE NECESSITY FOR A DECONTAMINATION PLAN. IF THE PROJECT MANAGER REQUIRES A PLAN, THEN THE CONTRACTOR SHALL SUBMIT A BRIEF DECONTAMINATION PLAN IN WRITING, TO THE PROJECT MANAGER FOR APPROVAL. THE DECONTAMINATION PLAN SHALL IDENTIFY SPECIFIC DECONTAMINATION PROCEDURES AND DECONTAMINATION LOCATIONS. DECONTAMINATION PROTOCOLS MAY VARY DEPENDING UPON THE NATURE OF THE TREATMENT SITE, TYPE OF TREATMENT CONDUCTED AT THE SITE, AND EXOTIC SPECIES THAT ARE SCHEDULED FOR TREATMENT.
 - A. IT WILL BE THE RESPONSIBILITY OF THE SITE MANAGER TO INSPECT ALL EQUIPMENT PRIOR TO WORK COMMENCING ON THE FIRST DAY AT THE PROJECT SITE, ON ANY OCCASION THAT THE EQUIPMENT LEAVES THE PROJECT SITE, AND ANY TIME DURING THE COURSE OF THE CONTROL OPERATION.
 - B. FAILURE TO COMPLY WITH THE DECONTAMINATION PROTOCOLS CONSTITUTES A REASON FOR CONTRACT CANCELLATION AND DISMISSAL OF THE CONTRACTOR.

PROTOCOL EXAMPLES:

1. ALL EQUIPMENT INCLUDING BUT NOT LIMITED TO VEHICLES, TRAILER, ATV'S, AND CHIPPERS MUST BE CLEANED WITH A PRESSURE WASHER (AT A FACILITY APPROVED BY THE MANAGING AGENCY'S PROJECT MANAGER). DECONTAMINATION PROTOCOLS INCLUDE SPRAYING DOWN ALL EQUIPMENT SURFACES INCLUDING THE UNDERCARRIAGE AND TIRES TO INSURE MUD, VEGETATIVE DEBRIS AND OTHER DEBRIS IN NOT TRANSPORTED FROM THE PREVIOUS TREATMENT SITE. SPECIAL ATTENTION WILL BE PAID TO EQUIPMENT THAT HAS WORKED AT SITE WHERE **LYGODIUM**, **COGAN GRASS** AND OTHER EXOTICS SPECIFIC TO THE MAINLAND WERE TREATED TO PREVENT THE SPREAD OF THESE INTO MONROE COUNTY.
 - A. EQUIPMENT SUCH AS CHAIN SAWS, LOPPERS, ETC. USED FOR CUT STUMP TREATMENT MUST BE WIPED DOWN AND CLEANED SO THAT THEY ARE FREE OF DEBRIS.
2. ALL EQUIPMENT INCLUDING BUT NOT LIMITED TO VEHICLES, TRAILER, ATV'S, AND CHIPPERS MUST BE CLEANED WITH A PRESSURE WASHER TO REDUCE THE SPREAD THE SPREAD OF EXOTIC VEGETATION PRIOR TO INITIATING WORK ACTIVITIES ON PUBLIC LANDS. DECONTAMINATION PROTOCOLS INCLUDE SPRAYING DOWN ALL EQUIPMENT SURFACES INCLUDING THE UNDERCARRIAGE AND TIRES TO INSURE MUD, VEGETATIVE DEBRIS AND OTHER DEBRIS IN NOT TRANSPORTED FROM THE PREVIOUS TREATMENT SITE. ALL HAND-HELD EQUIPMENT SUCH AS CHAIN SAWS, LOPPERS, ETC. TO BE USED FOR TREATMENT ACTIVITIES MUST BE WIPED DOWN AND CLEANED SO THAT THEY ARE FREE OF DEBRIS.
 - A. IN AREAS OF KNOWN **LYGODIUM** POPULATIONS, CONCERTED EFFORT WILL BE MADE TO REMOVE SPORES FROM CLOTHING AND BOOTS BY USE OF COMPRESSED AIR ON GARMENTS AND CLEANING BOOT LUGS PRIOR TO LEAVING THE TREATMENT SITE.
3. QUARANTINE EQUIPMENT AT A 'STAGING AREA' AND SPRAY EQUIPMENT THOROUGHLY, INCLUDING THE UNDERCARRIAGE AND TIRES.

REVISIONS	DATE	JOB NO.	21-0311
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△ PER FPL COMMENTS	12/14/2022	CHECKED	AS
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 FX. (772) 778-3617

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 FT. PIERCE, FL - PH (772) 468-9055

INDIAN RIVER COUNTY

HISTORIC TRANS-FLORIDA RAIL
 TRAIL EXTENSION

FLORIDA

GENERAL NOTES AND
 SPECIAL CONDITIONS

SHEET

C9

DATE:

21-0311

US FISH AND WILDLIFE SERVICE SPECIAL CONSTRUCTION NOTES:

1. ALL CONSTRUCTION AND PAVING ACTIVITIES WILL OCCUR OUTSIDE OF THE FLORIDA SCRUB JAY NESTING SEASON FROM JULY 15TH TO FEBRUARY 15TH.
2. STORAGE OF MATERIALS AND EQUIPMENT ASSOCIATED WITH THE PROJECT WILL NOT OCCUR IN NEAR SUITABLE HABITAT FOR THE FLORIDA SCRUB JAY AND WILL BE LIMITED TO DISTURBED AREAS TO HAVE THE GREATEST EXTENT PRACTICABLE.

LISTED SPECIES / WILDLIFE SPECIAL CONSTRUCTION NOTES:

1. ALL MEASURES WILL BE TAKEN DURING CONSTRUCTION TO AVOID CONTACT WITH ANY LISTED SPECIES. IN THE EVENT OF LOCATING A DEAD, INJURED, OR SICK THREATENED OR ENDANGERED SPECIES, INITIAL NOTIFICATION WILL BE MADE TO THE NEAREST USFWS LAW ENFORCEMENT OFFICE IN VERO BEACH AND SECONDARY NOTIFICATION WILL BE MADE TO FWC.
2. CARE WILL BE TAKEN IN HANDLING SICK OR INJURED SPECIMENS (OF ANY FEDERALLY LISTED SPECIES) TO ENSURE EFFECTIVE TREATMENT AND CARE OR IN THE HANDLING OF DEAD SPECIMENS TO PRESERVE BIOLOGICAL MATERIAL IN THE BEST POSSIBLE STATE FOR LATER ANALYSIS AS TO THE CAUSE OF DEATH. IN CONJUNCTION WITH THE CARE OF SICK OR INJURED INDIVIDUALS, OR PRESERVATION OF BIOLOGICAL MATERIALS FROM A DEAD ANIMAL, THE FINDER HAS THE RESPONSIBILITY TO CARRY OUT INSTRUCTIONS PROVIDED BY LAW ENFORCEMENT TO ENSURE THAT EVIDENCE INTRINSIC TO THE SPECIMEN IS NOT UNNECESSARILY DISTURBED.
3. STANDARD PROTECTION MEASURES FOR THE GOPHER TORTOISE WILL BE DEPLOYED DURING PROJECT CONSTRUCTION.
4. SETS OF WILDLIFE EDUCATION SIGNS FOR THE FLORIDA SCRUB JAY WILL BE PLACED ALONG THE TRAIL TO EDUCATE USERS OF THE SPECIES.
5. INDIAN RIVER COUNTY COMMITTED TO A NO CONSTRUCTION ORDER DURING NESTING SEASON OF THE FLORIDA SCRUB JAY, WHICH IS FROM JULY 15TH TO FEBRUARY 15TH.
6. THE CONTRACTOR WILL BE REQUIRED TO INSTALL SILT FENCE PRIOR TO INITIATION OF GROUND-DISTURBING ACTIVITIES. MAINTAIN FENCE THROUGHOUT CONSTRUCTION. AVOID DISTURBING OR CLEARING SCRUB JAY HABITAT FROM WITHIN DELINEATED AREAS. THEN REMOVE FENCE AFTER CONSTRUCTION IS COMPLETE

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INDIAN RIVER COUNTY

HISTORIC TRANS-FLORIDA RAIL
TRAIL EXTENSION

FLORIDA

LISTED SPECIES SPECIAL
CONSTRUCTION NOTES

DATE:

SHEET

C9a

21-0311

Please keep me
wild & free

If you love me, you won't feed me

● Feeding scrub-jays disrupts their natural feeding, breeding & sentinel behavior which can harm them

What's the Harm?

● Feeding scrub-jays can cause earlier breeding which can harm the young & future generations

● Feeding scrub-jays makes them more vulnerable to humans and predators

● Feeding scrub-jays provides them with unnatural foods that are unhealthy

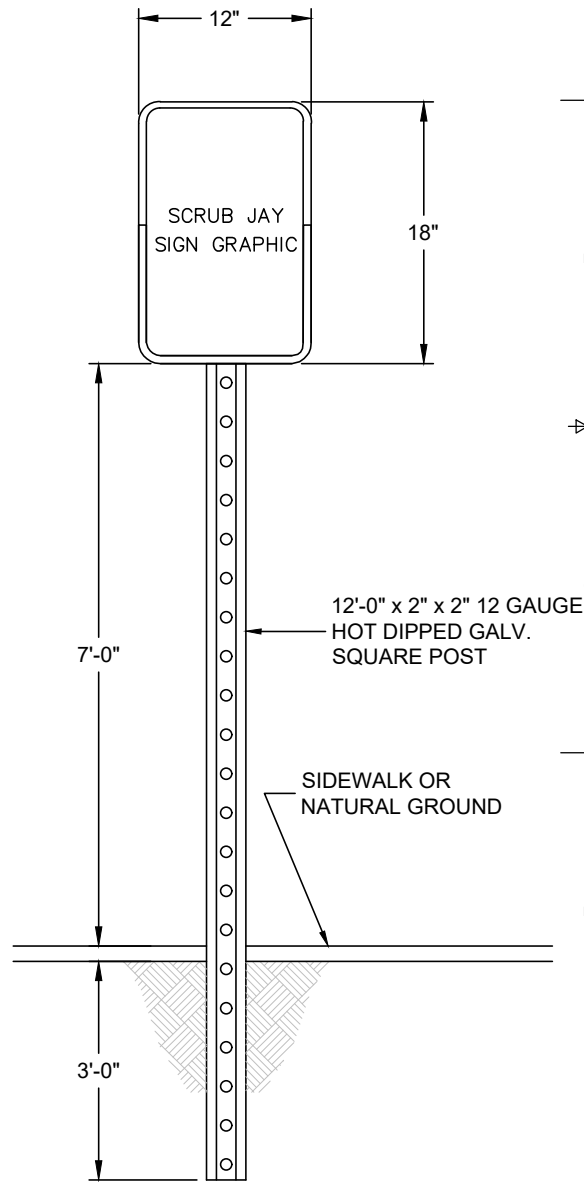


Florida scrub-jay



The Florida scrub-jay is a federally threatened species. Feeding the Florida scrub-jay is unlawful under the Federal Endangered Species Act of 1973 and State FAC Rule 68A-27.003. Violations of these laws are punishable by up to 6 months imprisonment and \$25,000 in fines or 60 days imprisonment and \$500 in fines, respectively.

SCRUB JAY SIGN GRAPHIC
N.T.S.

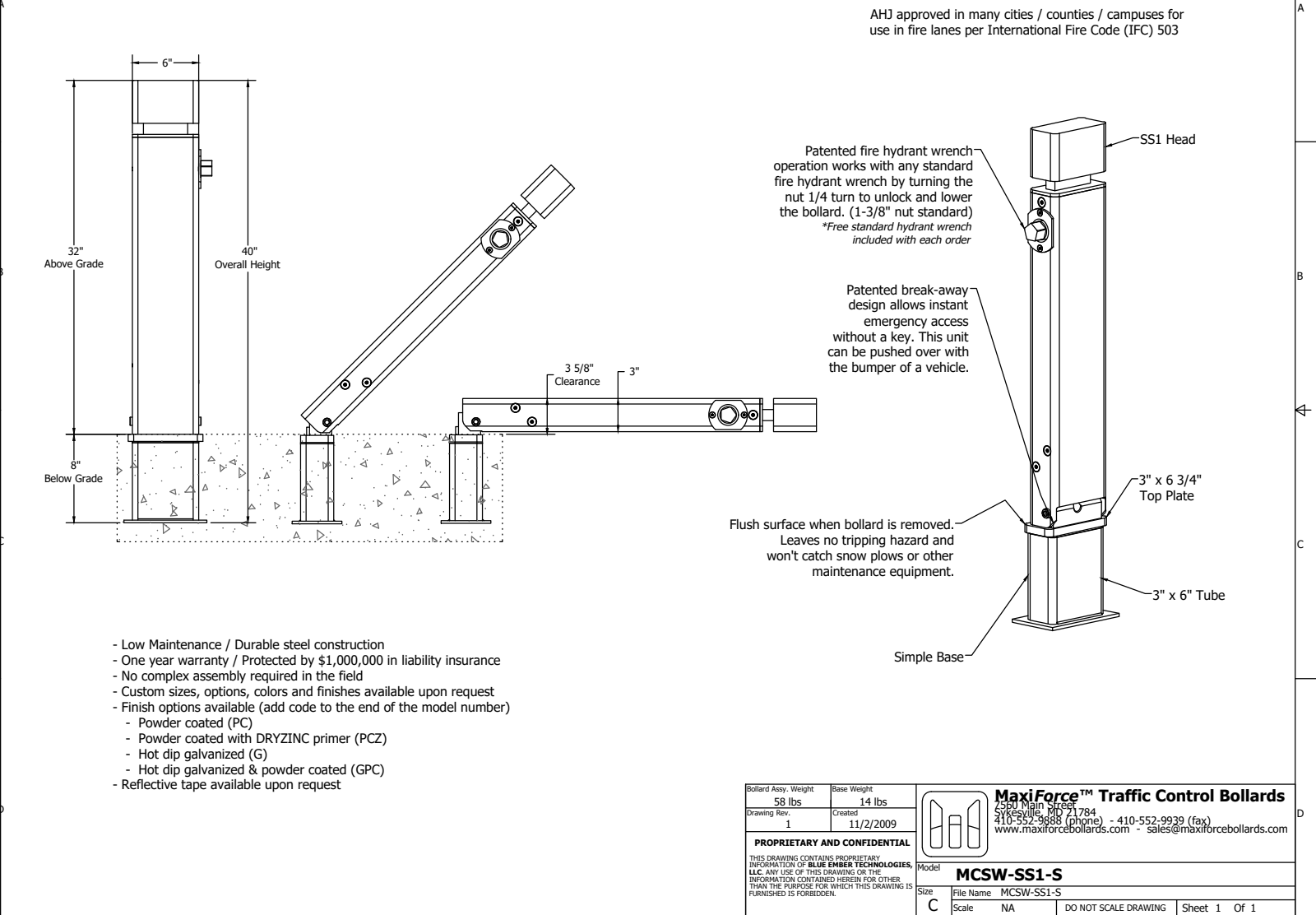


GENERAL NOTES

- SIGN GRAPHIC AND PANEL TO BE DEVELOPED BY IRC AND INSTALLED BY CONTRACTOR.
- THE SIGN SHALL BE PLACED A MINIMUM OF 3' FROM THE EDGE OF THE TRAIL SURFACE OR WHERE DESIGNATED BY PARK STAFF.

SCRUB JAY SIGN DETAIL
N.T.S.

MaxiForce™ Collapsible Bollard
Standard Body, Wrench Operated, Standard Style 1 Head, Simple Base



- Low Maintenance / Durable steel construction
- One year warranty / Protected by \$1,000,000 in liability insurance
- No complex assembly required in the field
- Custom sizes, options, colors and finishes available upon request
- Finish options available (add code to the end of the model number)
 - Powder coated (PC)
 - Powder coated with DRYZINC primer (PCZ)
 - Hot dip galvanized (G)
 - Hot dip galvanized & powder coated (GPC)
- Reflective tape available upon request

Bollard Assy. Weight	58 lbs	Base Weight	14 lbs
Drawing Rev.	1	Created	11/2/2009
PROPRIETARY AND CONFIDENTIAL			
THIS DRAWING CONTAINS PROPRIETARY INFORMATION OF BLUE EMBER TECHNOLOGIES, LLC. ANY USE OF THIS DRAWING OR THE INFORMATION CONTAINED HEREIN FOR OTHER THAN THE PURPOSE FOR WHICH THIS DRAWING IS FURNISHED IS FORBIDDEN.			
Model			MCSW-SS1-S
File Name			MCSW-SS1-S
Scale	NA	DO NOT SCALE DRAWING	Sheet 1 Of 1

COLLAPSIBLE BOLLARD DETAIL

N.T.S.

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INDIAN RIVER COUNTY

HISTORIC TRANS-FLORIDA RAIL
TRAIL EXTENSION

FLORIDA

SITE SIGNAGE AND DETAILS

DATE:

SHEET

C10

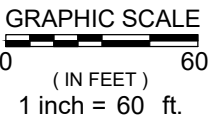
21-0311



BEGIN PROJECT 446073-1-58-01
TRANS-FLORIDA RAILWAY TRAIL
STA. 68+00.00

TRAIL PLAN

SCALE: 1" = 60'



LEGEND

- PROPOSED PAVED TRAIL
- EXISTING VACATED 100' R/W LINE
- PROPOSED 60' TRAIL EASEMENT



REVISIONS	DATE	JOB NO.	21-0311
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MBV ENGINEERING INC.
MOJIA BOWLES VILLAMIZAR & ASSOCIATES
CONSULTING ENGINEERING CA #3728

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HISTORIC TRANS-FLORIDA RAIL TRAIL EXTENSION

INDIAN RIVER COUNTY FLORIDA

SITE PLAN WITH AERIAL OVERLAY

DATE: 21-0311

SHEET **C11**



TRAIL PLAN

SCALE: 1" = 60'

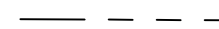


GRAPHIC SCALE
0 60
(IN FEET)
1 inch = 60 ft.

LEGEND



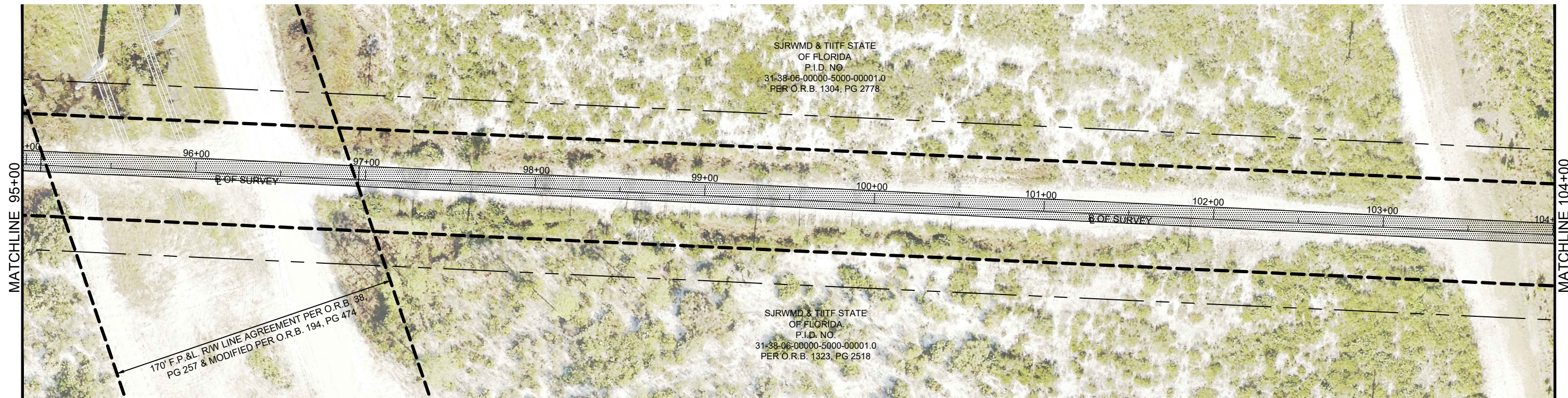
PROPOSED PAVED TRAIL



EXISTING VACATED 100' R/W LINE



PROPOSED 60' TRAIL EASEMENT



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INDIAN RIVER COUNTY

HISTORIC TRANS-FLORIDA RAIL
TRAIL EXTENSION

FLORIDA

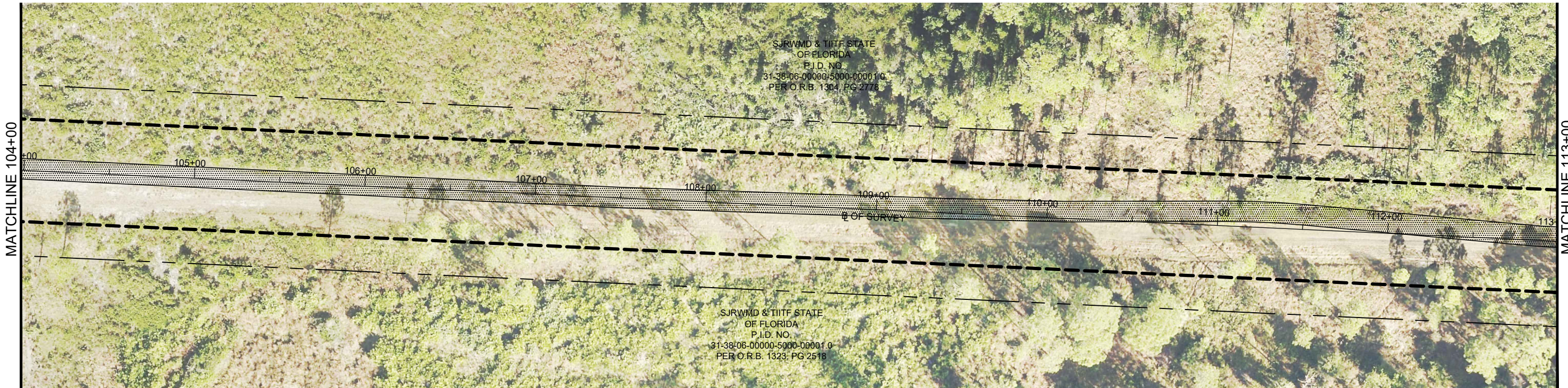
SITE PLAN WITH AERIAL OVERLAY

DATE:

SHEET

C12

21-0311

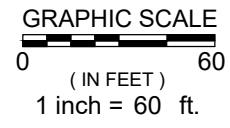


SJRWM & TITF STATE
OF FLORIDA
P.I.D. NO.
31-38-06-00000-5000-00001.0
PER O.R.B. 1304, PG 2778

SJRWM & TITF STATE
OF FLORIDA
P.I.D. NO.
31-38-06-00000-5000-00001.0
PER O.R.B. 1323, PG 2518

TRAIL PLAN

SCALE: 1" = 60'



LEGEND

- PROPOSED PAVED TRAIL
- EXISTING VACATED 100' R/W LINE
- PROPOSED 60' TRAIL EASEMENT



SJRWM & TITF STATE
OF FLORIDA
P.I.D. NO.
31-38-06-00000-5000-00001.0
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MBV
ENGINEERING INC.
MOJA BOWLES VILLAMIZAR & ASSOCIATES
CONSULTING ENGINEERING CA #3728

1835 20TH STREET
VERO BEACH, FL 32960
PH. (772) 569-0035
FX. (772) 778-3617

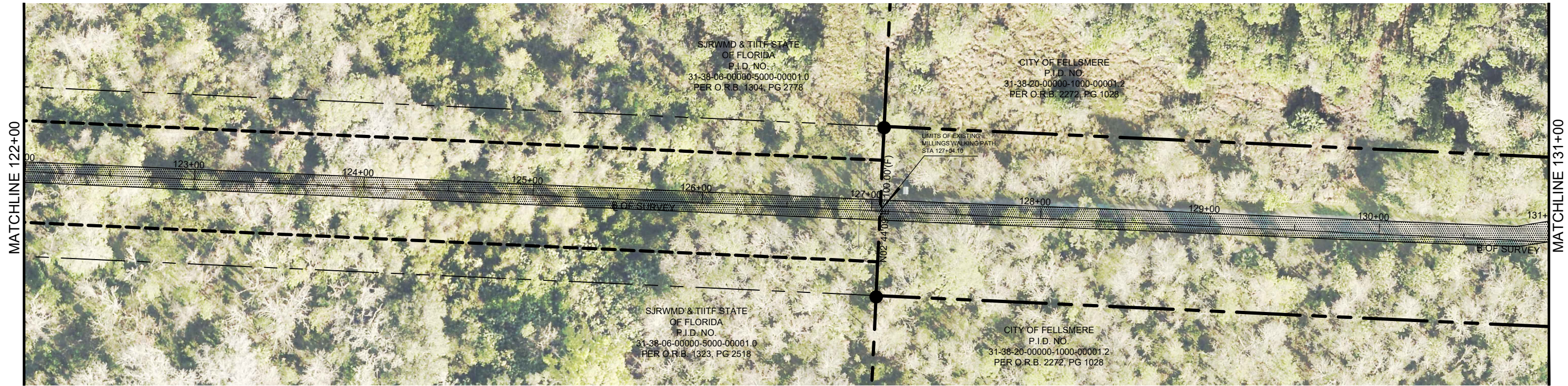
MELBOURNE, FL - PH (321) 253-1510
FT. PIERCE, FL - PH (772) 468-9055

HISTORIC TRANS-FLORIDA RAIL
TRAIL EXTENSION

INDIAN RIVER COUNTY FLORIDA

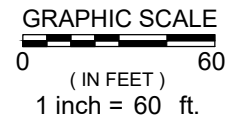
SITE PLAN WITH AERIAL OVERLAY

DATE:	21-0311
SHEET	C13



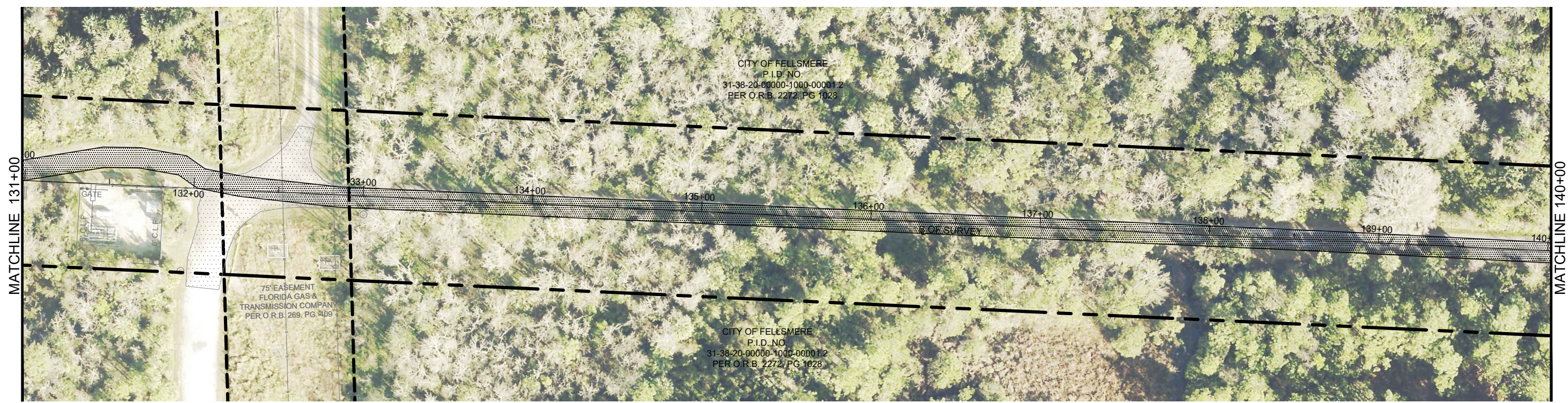
TRAIL PLAN

SCALE: 1" = 60'



LEGEND

- PROPOSED PAVED TRAIL
- EXISTING VACATED 100' R/W LINE
- EXISTING CITY OF FELLSMERE 100' TRAIL EASEMENT
- PROPOSED 60' TRAIL EASEMENT



REVISIONS	DATE	JOB NO.	21-0311
---	---	DESIGNED	TH
---	---	DRAWN	SS
△ PER FOOT LISTED SPECIES COMMENTS	05/02/2023	DATE	DEC. 2021
△ PER FPL COMMENTS	12/14/2022	CHECKED	AS
△ PER FDEP RAI #1 COMMENTS	09/09/2022	DATE ISSUED	12/20/2022
△ PER SJRWMD FIELD INSPECTION	08/23/2022		

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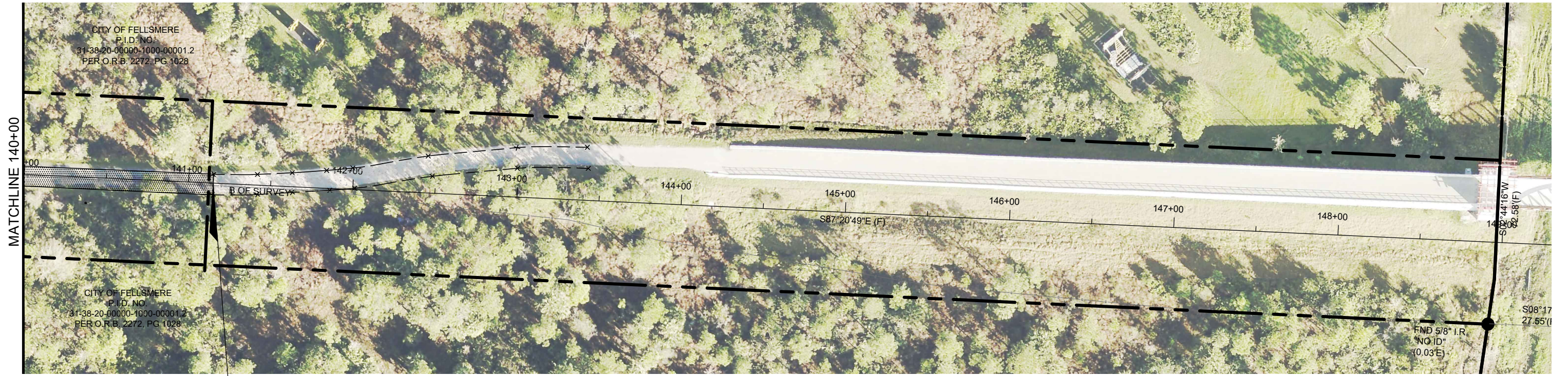
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HISTORIC TRANS-FLORIDA RAIL TRAIL EXTENSION

INDIAN RIVER COUNTY FLORIDA

SITE PLAN WITH AERIAL OVERLAY		SHEET
		C14
DATE:	21-0311	



MATCHLINE 140+00

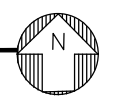
CITY OF FELLSMERE
P.I.D. NO.
31-38-20-00000-1000-00001.2
PER O.R.B. 2272, PG. 1028

CITY OF FELLSMERE
P.I.D. NO.
31-38-20-00000-1000-00001.2
PER O.R.B. 2272, PG. 1028

END PROJECT 446073-1-58-01
TRANS-FLORIDA RAILWAY TRAIL
STA. 141+15.04

TRAIL PLAN

SCALE: 1" = 60'



GRAPHIC SCALE
0 60
(IN FEET)
1 inch = 60 ft.

LEGEND

- PROPOSED PAVED TRAIL
- EXISTING CITY OF FELLSMERE 100' TRAIL EASEMENT

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HISTORIC TRANS-FLORIDA RAIL
TRAIL EXTENSION

INDIAN RIVER COUNTY FLORIDA

SITE PLAN WITH AERIAL OVERLAY

SHEET
C15

DATE: 21-0311

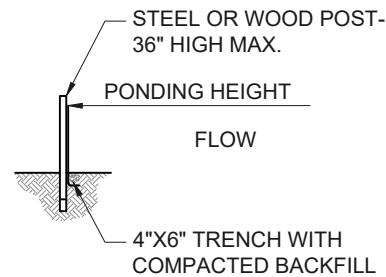
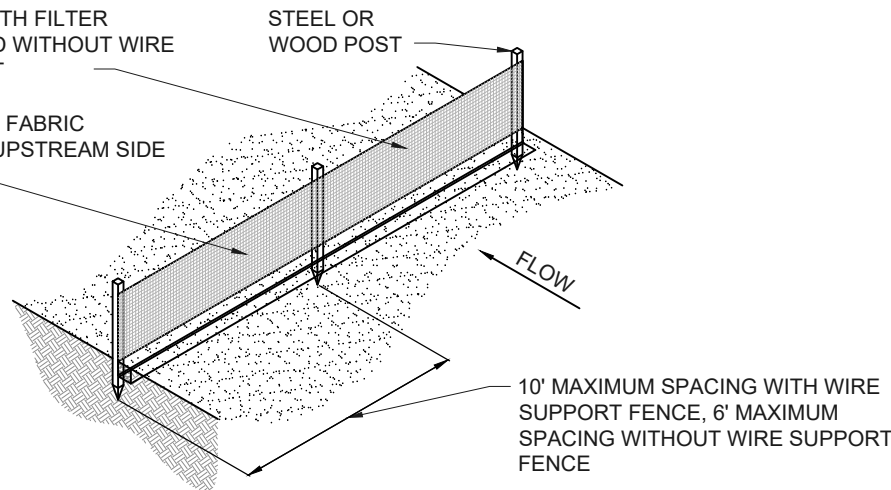
NOTES:

1. SILT FENCE SHALL BE PLACED ON SLOPE CONTOURS TO MAXIMIZE PONDING EFFICIENCY.
2. INSPECT AND REPAIR FENCE AFTER EACH STORM EVENT AND REMOVE SEDIMENT WHEN NECESSARY. 9" MAXIMUM RECOMMENDED STORAGE HEIGHT.
3. REMOVED SEDIMENT SHALL BE DEPOSITED TO AN AREA THAT WILL NOT CONTRIBUTE SEDIMENT OFF-SITE AND CAN BE PERMANENTLY STABILIZED.

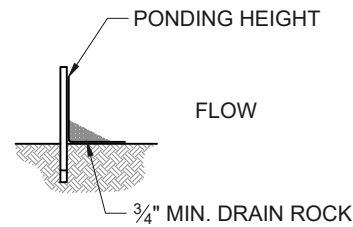
EXTRA STRENGTH FILTER FABRIC NEEDED WITHOUT WIRE MESH SUPPORT

ATTACH FILTER FABRIC SECURELY TO UPSTREAM SIDE OF POST

STEEL OR WOOD POST



TRENCH DETAIL



INSTALLATION WITHOUT TRENCHING

TYPE IV SILT FENCE
N.T.S.

EROSION AND SEDIMENTATION CONTROL NOTES

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

MINIMUM STANDARDS

1. SEDIMENT BASIN AND TRAPS, PERIMETER DIKES, SEDIMENT BARRIERS AND OTHER MEASURES INTENDED TO TRAP SEDIMENT SHALL BE CONSTRUCTED AS A FIRST STEP IN ANY LAND-DISTURBING ACTIVITY AND SHALL BE MADE FUNCTIONAL BEFORE UNSLOPE LAND DISTURBANCE TAKES PLACE.
2. ALL SEDIMENT CONTROL MEASURES ARE TO BE ADJUSTED TO MEET FIELD CONDITIONS AT THE TIME OF CONSTRUCTION AND BE CONSTRUCTED PRIOR TO ANY GRADING OR DISTURBANCE OF EXISTING SURFACE MATERIAL ON BALANCE OF SITE. PERIMETER SEDIMENT BARRIERS SHALL BE CONSTRUCTED TO PREVENT SEDIMENT OR TRASH FROM FLOWING OR FLOATING ON TO ADJACENT PROPERTIES.
3. PERMANENT OR TEMPORARY SOIL STABILIZATION SHALL BE APPLIED TO DENUDED AREAS WITHIN SEVEN DAYS AFTER FINAL GRADE IS REACHED ON ANY PORTION OF THE SITE. TEMPORARY SOIL STABILIZATION SHALL BE APPLIED WITHIN SEVEN DAYS TO DENUDED AREAS THAT MAY NOT BE AT FINAL GRADE BUT WILL REMAIN UNDISTURBED FOR LONGER THAN 30 DAYS. PERMANENT STABILIZATION SHALL BE APPLIED TO AREAS THAT ARE TO BE LEFT UNDISTURBED FOR MORE THAN ONE YEAR.
4. DURING CONSTRUCTION OF THE PROJECT, SOIL STOCKPILES SHALL BE STABILIZED OR PROTECTED WITH SEDIMENT TRAPPING MEASURES. THE APPLICANT IS RESPONSIBLE FOR THE TEMPORARY PROTECTION AND PERMANENT STABILIZATION OF ALL SOIL STOCKPILES ON SITE AS WELL AS SOIL INTENTIONALLY TRANSPORTED FROM THE PROJECT SITE.
5. A PERMANENT VEGETATIVE COVER SHALL BE ESTABLISHED ON DENUDED AREAS NOT OTHERWISE PERMANENTLY STABILIZED. PERMANENT VEGETATION SHALL NOT BE CONSIDERED ESTABLISHED UNTIL A GROUND COVER IS ACHIEVED THAT, IN THE OPINION OF THE REVIEWER, IS UNIFORM, MATURE ENOUGH TO SURVIVE AND WILL INHIBIT EROSION.
6. STABILIZATION MEASURES SHALL BE APPLIED TO EARTHEN STRUCTURES SUCH AS DAMS, DIKES AND DIVERSIONS IMMEDIATELY AFTER INSTALLATION.
7. SURFACE RUNOFF FROM DISTURBED AREAS THAT IS COMPRISED OF FLOW FROM DRAINAGE AREAS GREATER THAN OR EQUAL TO THREE ACRES SHALL BE CONTROLLED BY A SEDIMENT BASIN. THE SEDIMENT BASIN SHALL BE DESIGNED AND CONSTRUCTED TO ACCOMMODATE THE ANTICIPATED SEDIMENT LOADING FROM THE LAND-DISTURBING ACTIVITY. THE OUTFALL DEVICE OR SYSTEM DESIGN SHALL TAKE INTO ACCOUNT THE TOTAL DRAINAGE AREA FLOWING THROUGH THE DISTURBED AREA TO BE SERVED BY THE BASIN.
8. AFTER ANY SIGNIFICANT RAINFALL, SEDIMENT CONTROL STRUCTURES WILL BE INSPECTED FOR INTEGRITY. ANY DAMAGED DEVICES SHALL BE CORRECTED IMMEDIATELY.
9. CONCENTRATED RUNOFF SHALL NOT FLOW DOWN CUT OR FILL SLOPES UNLESS CONTAINED WITHIN AN ADEQUATE TEMPORARY OR PERMANENT CHANNEL, FLUME OR SLOPE DRAIN STRUCTURE.
10. WHENEVER WATER SEEPS FROM A SLOPE FACE, ADEQUATE DRAINAGE OR OTHER PROTECTION SHALL BE PROVIDED.
11. SEDIMENT WILL BE PREVENTED FROM ENTERING ANY STORM DRAIN SYSTEM, DITCH OR CHANNEL. ALL STORM SEWER INLETS THAT ARE MADE OPERABLE DURING CONSTRUCTION SHALL BE PROTECTED SO THAT SEDIMENT-LADEN WATER CANNOT ENTER THE CONVEYANCE SYSTEM WITHOUT FIRST BEING FILTERED OR OTHERWISE TREATED TO REMOVE SEDIMENT.
12. BEFORE TEMPORARY OR NEWLY CONSTRUCTED STORMWATER CONVEYANCE CHANNELS ARE MADE OPERATIONAL, ADEQUATE OUTLET PROTECTION AND ANY REQUIRED TEMPORARY OR PERMANENT CHANNEL LINING SHALL BE INSTALLED IN BOTH THE CONVEYANCE CHANNEL AND RECEIVING CHANNEL.
13. WHEN WORK IN A LIVE WATERCOURSE IS PERFORMED, PRECAUTIONS SHALL BE TAKEN TO MINIMIZE ENCROACHMENT, CONTROL SEDIMENT TRANSPORT AND STABILIZE THE WORK AREA TO THE GREATEST EXTENT POSSIBLE DURING CONSTRUCTION. NONERODIBLE MATERIAL SHALL BE USED FOR THE CONSTRUCTION OF CAUSEWAYS AND COFFERDAMS. EARTHEN FILL MAY BE USED FOR THESE STRUCTURES IF ARMORED BY NONERODIBLE COVER MATERIALS.
14. WHEN A LIVE WATERCOURSE MUST BE CROSSED BY CONSTRUCTION VEHICLES, A TEMPORARY STREAM CROSSING CONSTRUCTED OF NONERODIBLE MATERIAL SHALL BE PROVIDED.
15. THE BED AND BANKS OF A WATERCOURSE SHALL BE STABILIZED IMMEDIATELY AFTER WORK IN THE WATERCOURSE IS COMPLETED.
16. PERIODIC INSPECTION AND MAINTENANCE OF ALL SEDIMENT CONTROL STRUCTURES MUST BE PROVIDED TO ENSURE INTENDED PURPOSE IS ACCOMPLISHED. THE DEVELOPER, OWNER AND/OR CONTRACTOR SHALL BE CONTINUALLY RESPONSIBLE FOR ALL SEDIMENT LEAVING THE PROPERTY. SEDIMENT CONTROL MEASURES SHALL BE IN WORKING CONDITION AT THE END OF EACH WORKING DAY.
17. WHERE CONSTRUCTION VEHICLE ACCESS ROUTES INTERSECT PAVED PUBLIC ROADS, PROVISIONS SHALL BE MADE TO MINIMIZE THE TRANSPORT OF SEDIMENT BY TRACKING ONTO THE PAVED SURFACE, WHERE SEDIMENT IS TRANSPORTED ONTO A PUBLIC ROAD SURFACE WITH CURBS AND GUTTERS, THE ROAD SHALL BE CLEANED THOROUGHLY AT THE END OF EACH DAY. SEDIMENT SHALL BE REMOVED FROM THE ROADS BY SHOVELING OR SWEEPING AND TRANSPORTED TO A SEDIMENT CONTROL DISPOSAL AREA. STREET WASHING SHALL BE ALLOWED ONLY AFTER SEDIMENT IS REMOVED IN THIS MANNER. THIS PROVISION SHALL APPLY TO INDIVIDUAL SUBDIVISION LOTS AS WELL AS TO LARGER LAND-DISTURBING ACTIVITIES.
18. ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED WITHIN 30 DAYS AFTER FINAL SITE STABILIZATION OR AFTER THE TEMPORARY MEASURES ARE NO LONGER NEEDED, IN THE OPINION OF THE REVIEWER. DISTURBED SOIL AREAS RESULTING FROM THE DISPOSITION OF TEMPORARY MEASURES SHALL BE PERMANENTLY STABILIZED TO PREVENT FURTHER EROSION AND SEDIMENTATION.
19. PROPERTIES AND WATERWAYS DOWNSTREAM FROM CONSTRUCTION SITE SHALL BE PROTECTED FROM SEDIMENT DISPOSITION AND EROSION.
20. EROSION CONTROL DESIGN AND CONSTRUCTION SHALL FOLLOW THE REQUIREMENTS IN INDEX NOS. 104 AND 105 OF FDOT ROADWAY AND TRAFFIC DESIGN STANDARDS.
21. THE REVIEWER MAY APPROVE MODIFICATIONS OR ALTER PLANS TO THESE EROSION CONTROL CRITERIA DUE TO SITE SPECIFIC CONDITIONS.

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INDIAN RIVER COUNTY

HISTORIC TRANS-FLORIDA RAIL
TRAIL EXTENSION

FLORIDA

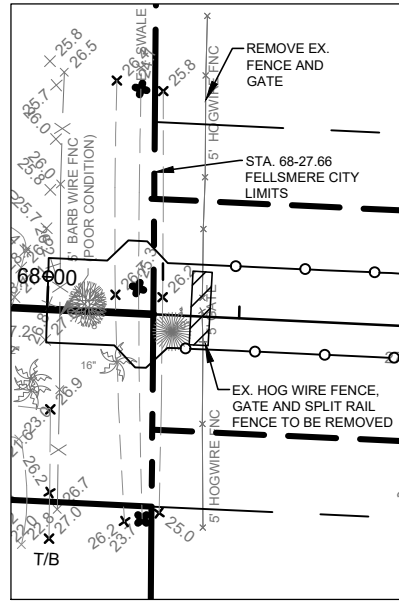
EROSION CONTROL DETAILS

DATE:

SHEET

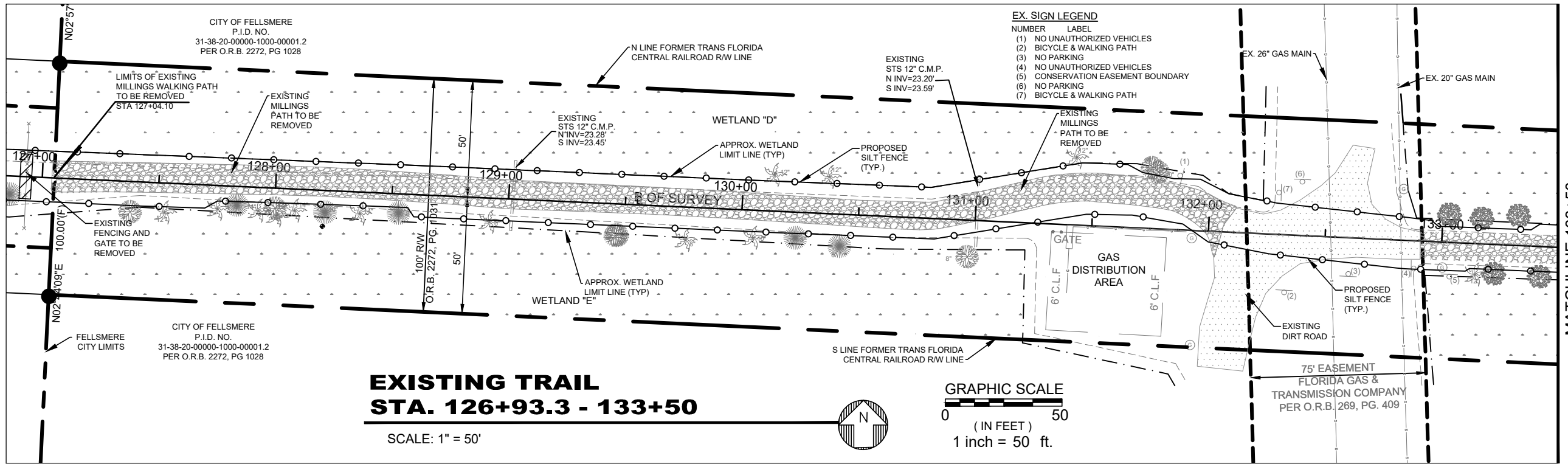
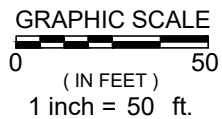
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21-0311



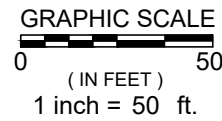
**EXISTING TRAIL
STA. 68+40.42**

SCALE: 1" = 50'



**EXISTING TRAIL
STA. 126+93.3 - 133+50**

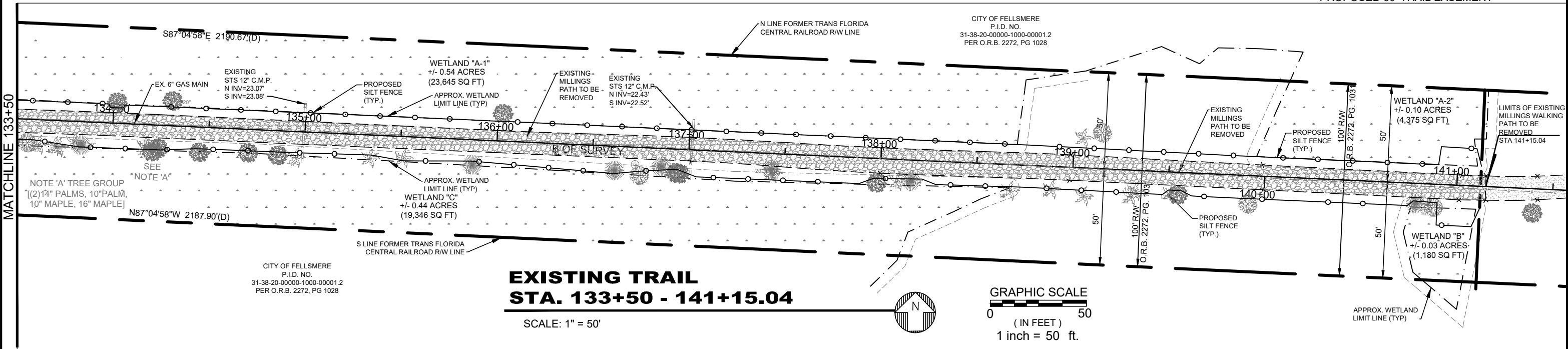
SCALE: 1" = 50'



NOTE:
CONTRACTOR TO INSTALL SILT FENCE AROUND EXISTING TREES AS NEEDED TO AVOID CONFLICTS. TO AVOID WETLAND IMPACTS, CONTRACTOR TO LOCATE SILT FENCE ON TRAIL-SIDE OF TREE EXCEPT IN THOSE LOCATIONS WHERE SILT FENCE AND CAN BE LOCATED ON THE BACKSIDE OF TREE WITHOUT IMPACT TO THE WETLAND AREA OR TREE.

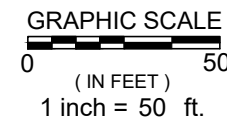
LEGEND

- EXISTING MILLINGS TRAIL TO BE REMOVED
- EXISTING WETLAND
- EXISTING WETLAND BOUNDARY
- WETLAND BUFFER
- PROPOSED SILT FENCE
- EXISTING VACATED 100' R/W LINE
- EXISTING FELLSMERE 100' TRAIL EASEMENT
- PROPOSED 60' TRAIL EASEMENT



**EXISTING TRAIL
STA. 133+50 - 141+15.04**

SCALE: 1" = 50'



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INDIAN RIVER COUNTY

HISTORIC TRANS-FLORIDA RAIL
TRAIL EXTENSION

FLORIDA

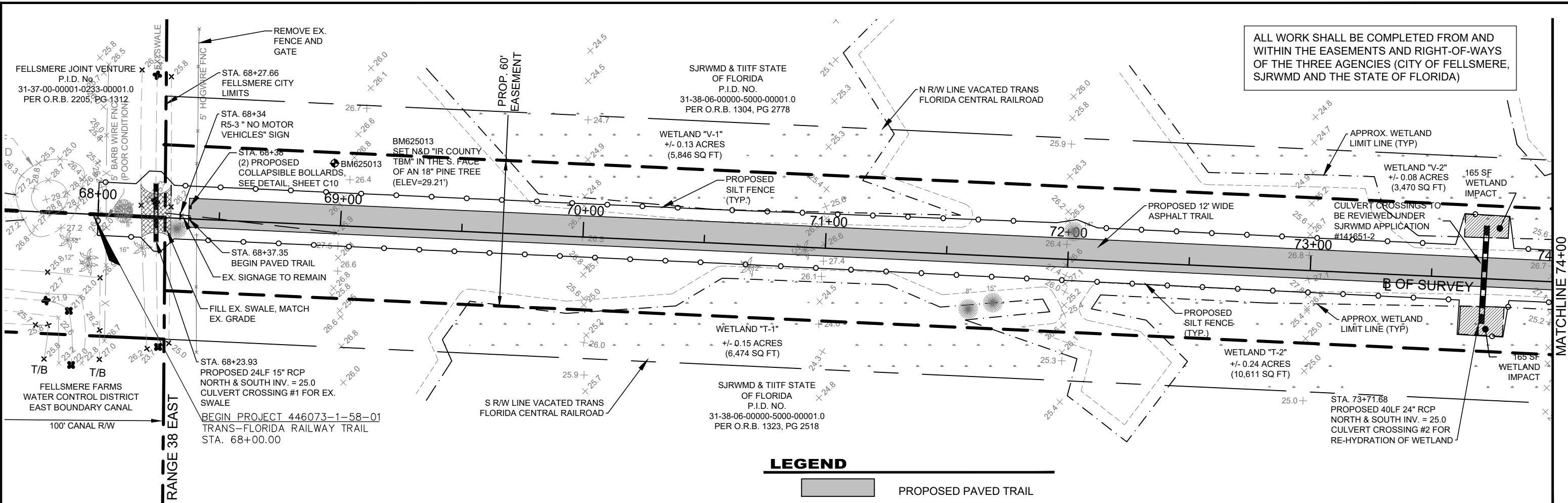
DEMOLITION PLAN

SHEET

C17

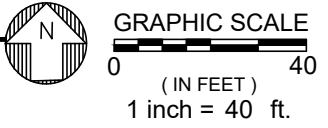
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TRAIL PLAN

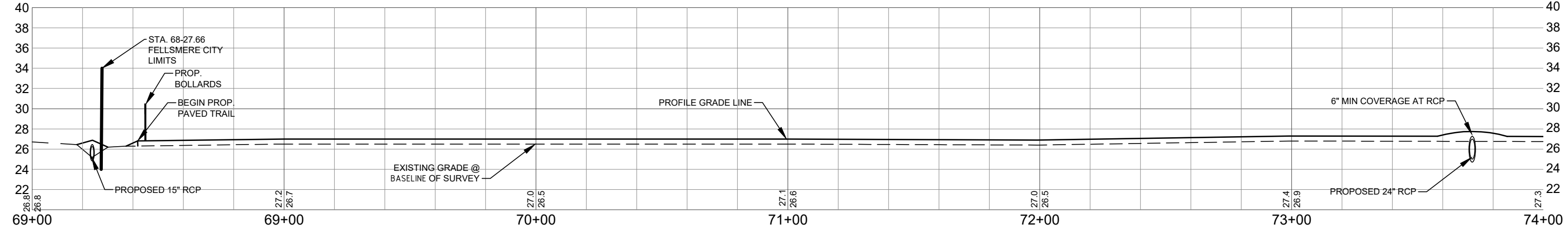
SCALE: 1" = 40'



LEGEND

- PROPOSED PAVED TRAIL
- EXISTING WETLAND
- PROPOSED WETLAND IMPACT
- PROPOSED FILL
- EXISTING WETLAND BOUNDARY
- WETLAND BUFFER
- PROPOSED SILT FENCE
- EXISTING VACATED 100' R/W LINE
- PROPOSED 60' TRAIL EASEMENT

NOTE:
CONTRACTOR TO INSTALL SILT FENCE AROUND EXISTING TREES AS NEEDED TO AVOID CONFLICTS. TO AVOID WETLAND IMPACTS, CONTRACTOR TO LOCATE SILT FENCE ON TRAIL-SIDE OF TREE EXCEPT IN THOSE LOCATIONS WHERE SILT FENCE AND CAN BE LOCATED ON THE BACKSIDE OF TREE WITHOUT IMPACT TO THE WETLAND AREA OR TREE.



HORZ. SCALE: 1" = 40'
VERT. SCALE: 1" = 4'

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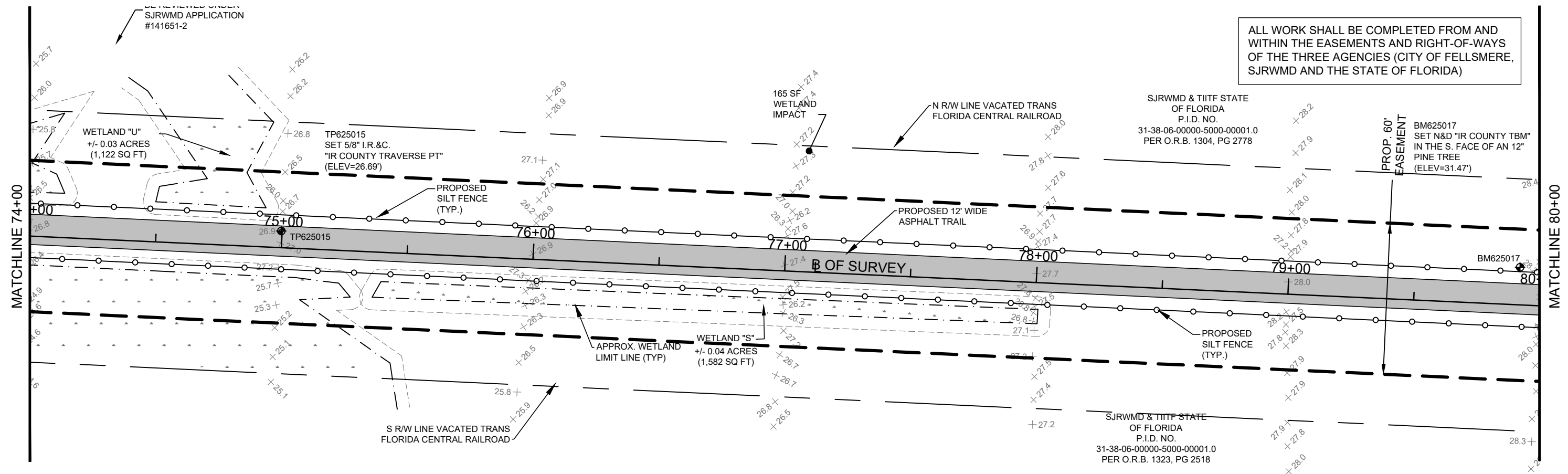
HISTORIC TRANS-FLORIDA RAIL TRAIL EXTENSION
INDIAN RIVER COUNTY
FLORIDA

PLAN AND PROFILE

SHEET
C18

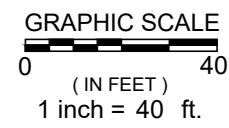
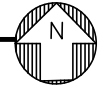
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TRAIL PLAN

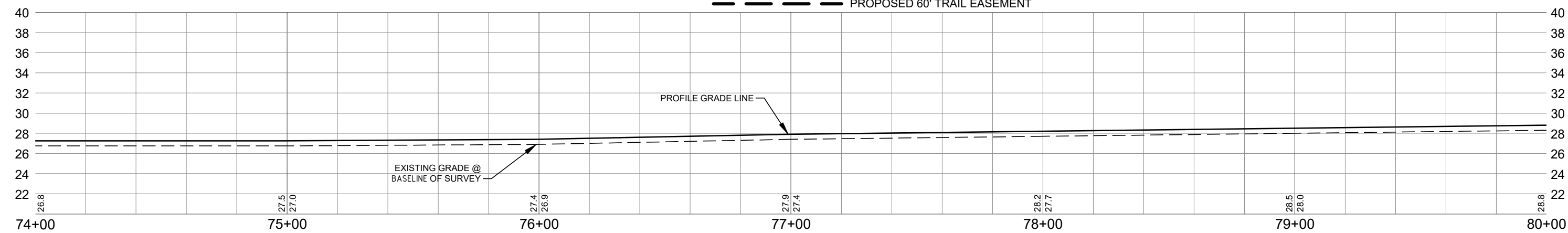
SCALE: 1" = 40'



LEGEND

- PROPOSED PAVED TRAIL
- EXISTING WETLAND
- EXISTING WETLAND BOUNDARY
- WETLAND BUFFER
- PROPOSED SILT FENCE
- EXISTING VACATED 100' R/W LINE
- PROPOSED 60' TRAIL EASEMENT

NOTE:
CONTRACTOR TO INSTALL SILT FENCE AROUND EXISTING TREES AS NEEDED TO AVOID CONFLICTS. TO AVOID WETLAND IMPACTS, CONTRACTOR TO LOCATE SILT FENCE ON TRAIL- SIDE OF TREE EXCEPT IN THOSE LOCATIONS WHERE SILT FENCE AND CAN BE LOCATED ON THE BACKSIDE OF TREE WITHOUT IMPACT TO THE WETLAND AREA OR TREE.



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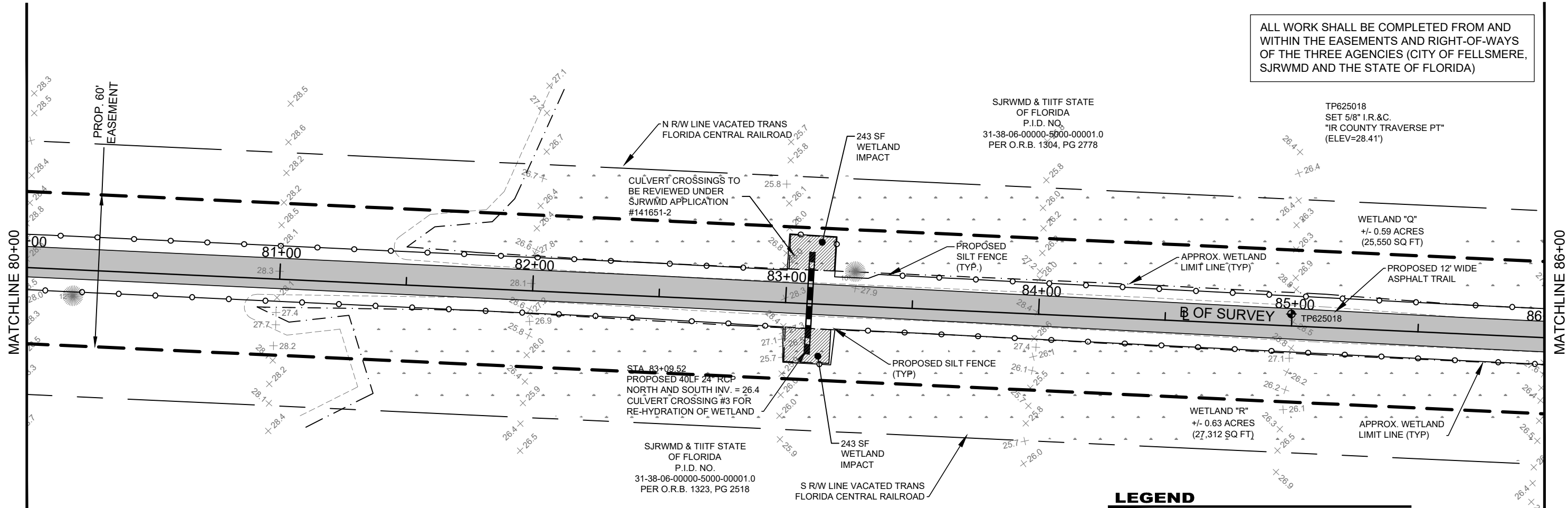
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INDIAN RIVER COUNTY
FLORIDA

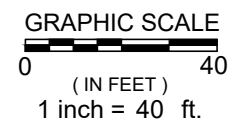
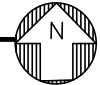
PLAN AND PROFILE		SHEET
		C19
DATE:	21-0311	

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TRAIL PLAN

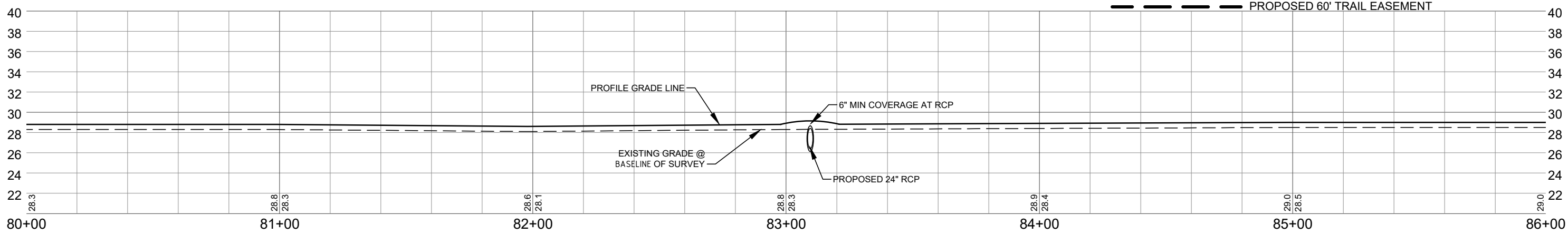
SCALE: 1" = 40'



NOTE:
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LEGEND

- PROPOSED PAVED TRAIL
- EXISTING WETLAND
- PROPOSED WETLAND IMPACT
- EXISTING WETLAND BOUNDARY
- WETLAND BUFFER
- PROPOSED SILT FENCE
- EXISTING VACATED 100' R/W LINE
- PROPOSED 60' TRAIL EASEMENT



HORZ. SCALE: 1" = 40'
 VERT. SCALE: 1" = 4'

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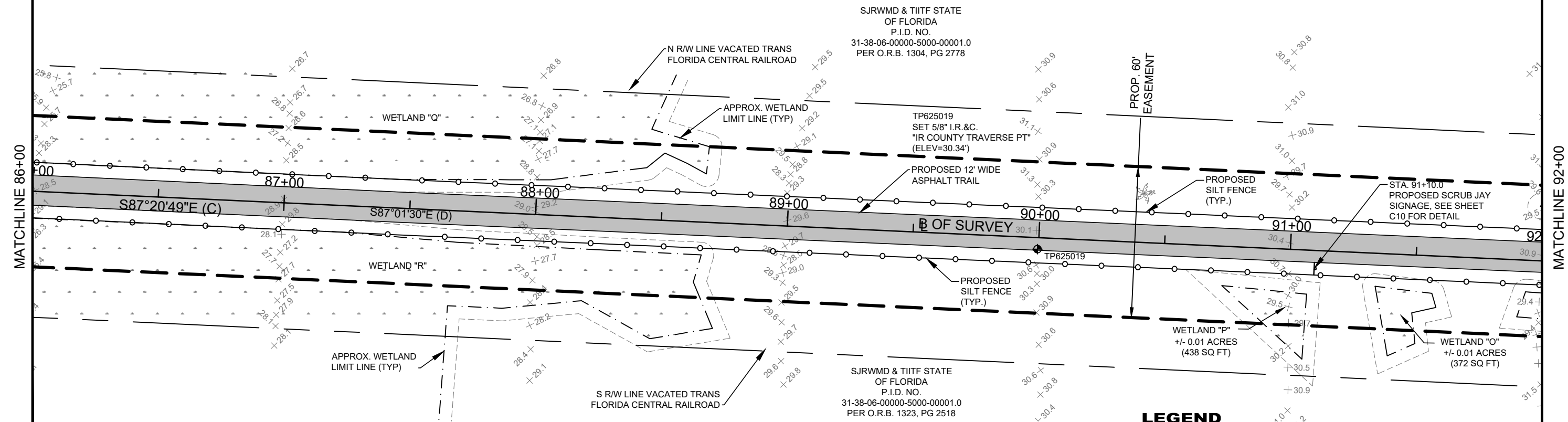
1835 20TH STREET
 VERO BEACH, FL 32960
 PH. (772) 569-0035
 FX. (772) 778-3617

MELBOURNE, FL - PH (321) 253-1510
 FT. PIERCE, FL - PH (772) 468-9055

HISTORIC TRANS-FLORIDA RAIL TRAIL EXTENSION
 INDIAN RIVER COUNTY FLORIDA

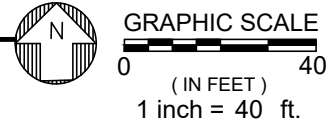
PLAN AND PROFILE	SHEET C20
DATE:	21-0311

ALL WORK SHALL BE COMPLETED FROM AND WITHIN THE EASEMENTS AND RIGHT-OF-WAYS OF THE THREE AGENCIES (CITY OF FELLSMERE, SJRWMD AND THE STATE OF FLORIDA)



TRAIL PLAN

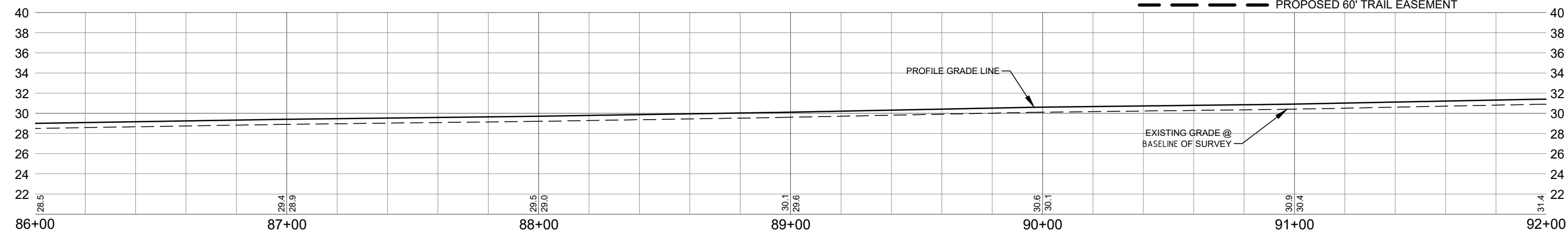
SCALE: 1" = 40'



NOTE:
 CONTRACTOR TO INSTALL SILT FENCE AROUND EXISTING TREES AS NEEDED TO AVOID CONFLICTS. TO AVOID WETLAND IMPACTS, CONTRACTOR TO LOCATE SILT FENCE ON TRAIL- SIDE OF TREE EXCEPT IN THOSE LOCATIONS WHERE SILT FENCE AND CAN BE LOCATED ON THE BACKSIDE OF TREE WITHOUT IMPACT TO THE WETLAND AREA OR TREE.

LEGEND

- PROPOSED PAVED TRAIL
- EXISTING WETLAND
- EXISTING WETLAND BOUNDARY
- WETLAND BUFFER
- PROPOSED SILT FENCE
- EXISTING VACATED 100' R/W LINE
- PROPOSED 60' TRAIL EASEMENT



HORZ. SCALE: 1" = 40'
 VERT. SCALE: 1" = 4'

REVISIONS	DATE	JOB NO.	21-0311
DESIGNED	TH		
DRAWN	SS		
PER FDOT LISTED SPECIES COMMENTS	05/02/2023	DATE	DEC. 2021
PER FPL COMMENTS	12/14/2022	CHECKED	AS
PER FDEP RAI #1 COMMENTS	09/09/2022	DATE ISSUED	12/20/2022
PER SJRWMD FIELD INSPECTION	08/23/2022		

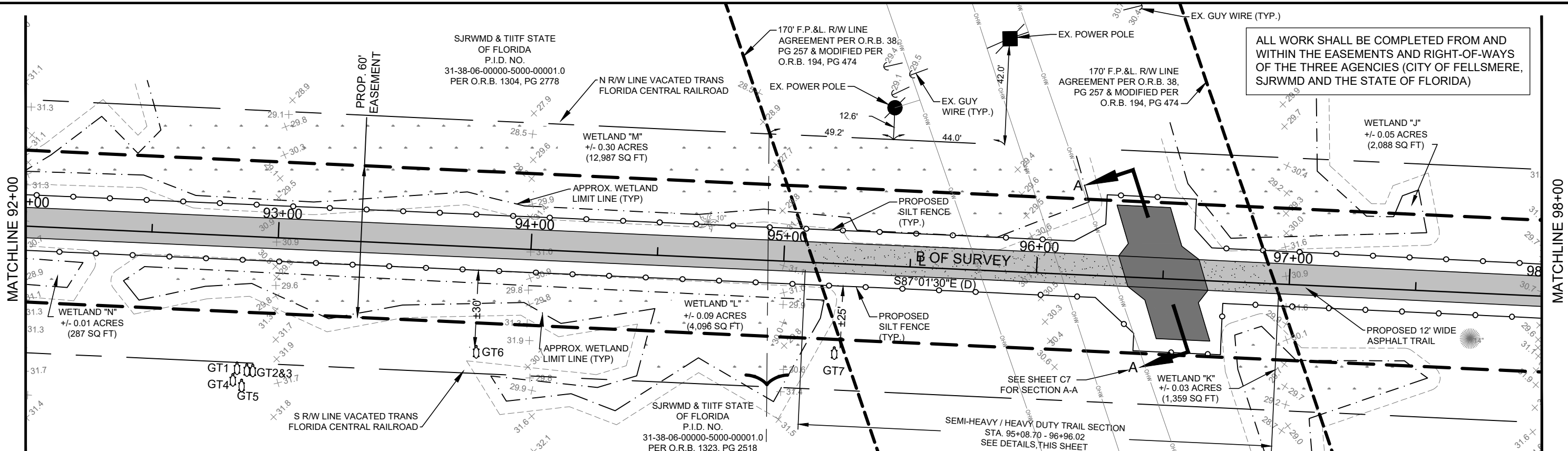
MBV ENGINEERING INC.
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HISTORIC TRANS-FLORIDA RAIL TRAIL EXTENSION
 INDIAN RIVER COUNTY FLORIDA

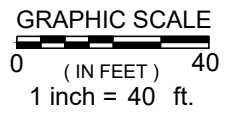
PLAN AND PROFILE		SHEET
		C21
DATE:	21-0311	



ALL WORK SHALL BE COMPLETED FROM AND WITHIN THE EASEMENTS AND RIGHT-OF-WAYS OF THE THREE AGENCIES (CITY OF FELLSMERE, SJRWMD AND THE STATE OF FLORIDA)

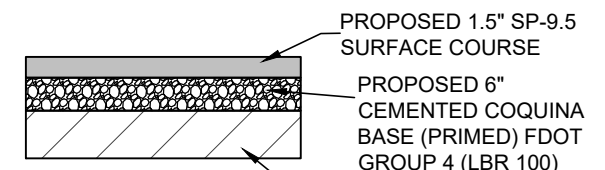
TRAIL PLAN

SCALE: 1" = 40'



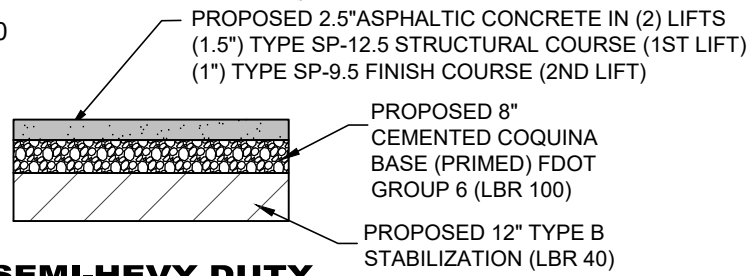
LEGEND

- PROPOSED PAVED TRAIL ASPHALT
- PROPOSED SEMI-HEAVY DUTY ASPHALT
- PROPOSED HEAVY DUTY ASPHALT
- EXISTING WETLAND
- EXISTING WETLAND BOUNDARY
- WETLAND BUFFER
- PROPOSED SILT FENCE
- EXISTING VACATED 100' R/W LINE
- PROPOSED 60' TRAIL EASEMENT
- GT# GOPHER TORTOISE LOCATION



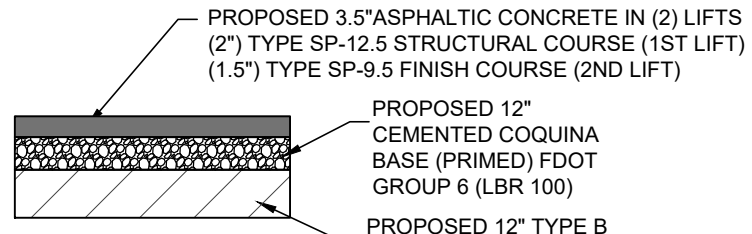
TYPICAL TRAIL STRUCTURAL SECTION

N.T.S.



SEMI-HEVY DUTY TYPICAL TRAIL STRUCTURAL SECTION
STA. 95+08.70 TO STA. 96+34.99
STA. 96+66.72 TO STA. 96+96.02

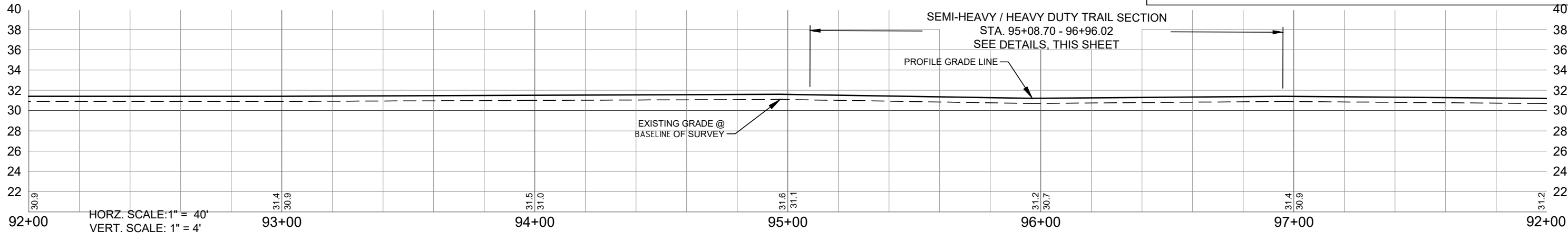
N.T.S.



HEAVY DUTY TYPICAL TRAIL STRUCTURAL SECTION
STA. 96+34.99 TO STA. 96+66.72

N.T.S.

NOTE: CONTRACTOR TO INSTALL SILT FENCE AROUND EXISTING TREES AS NEEDED TO AVOID CONFLICTS. TO AVOID WETLAND IMPACTS, CONTRACTOR TO LOCATE SILT FENCE ON TRAIL- SIDE OF TREE EXCEPT IN THOSE LOCATIONS WHERE SILT FENCE AND CAN BE LOCATED ON THE BACKSIDE OF TREE WITHOUT IMPACT TO THE WETLAND AREA OR TREE.



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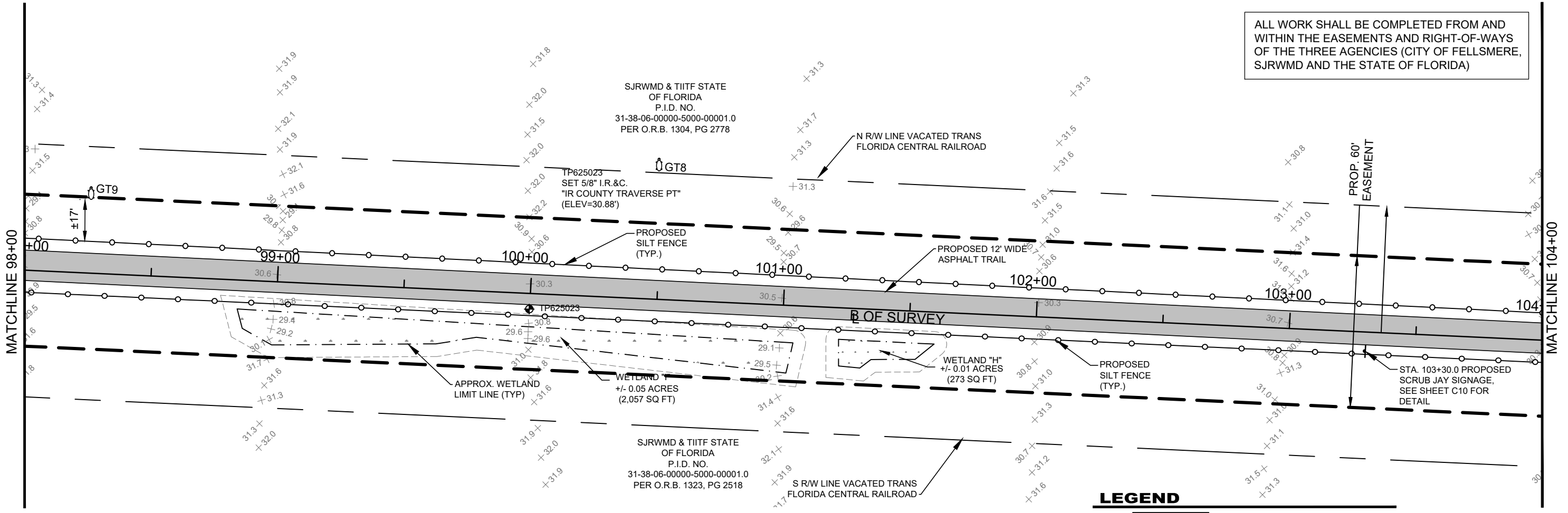
HISTORIC TRANS-FLORIDA RAIL TRAIL EXTENSION
 INDIAN RIVER COUNTY
 FLORIDA

PLAN AND PROFILE

SHEET
C22

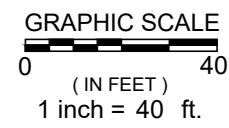
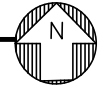
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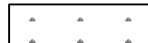




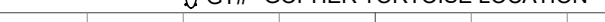

TRAIL PLAN

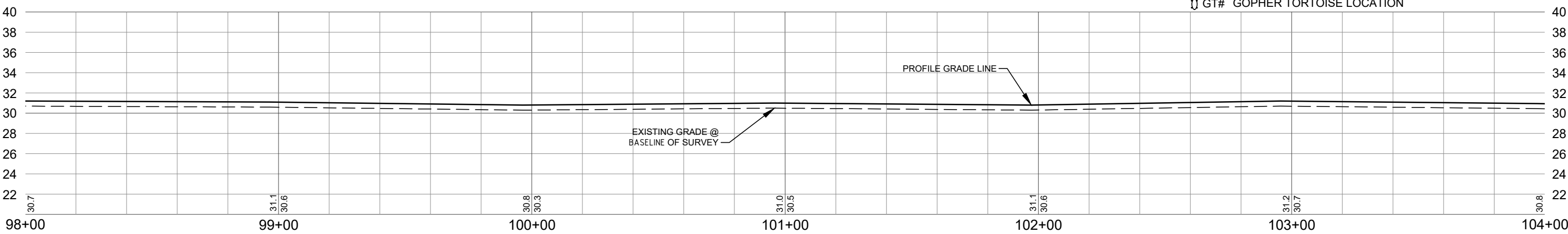
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LEGEND

-  PROPOSED PAVED TRAIL
-  EXISTING WETLAND
-  EXISTING WETLAND BOUNDARY
-  WETLAND BUFFER
-  PROPOSED SILT FENCE
-  EXISTING VACATED 100' R/W LINE
-  PROPOSED 60' TRAIL EASEMENT
-  GT# GOPHER TORTOISE LOCATION



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REVISIONS	DATE	JOB NO.	21-0311
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 MOJA BOWLES VILLAMIZAR & ASSOCIATES
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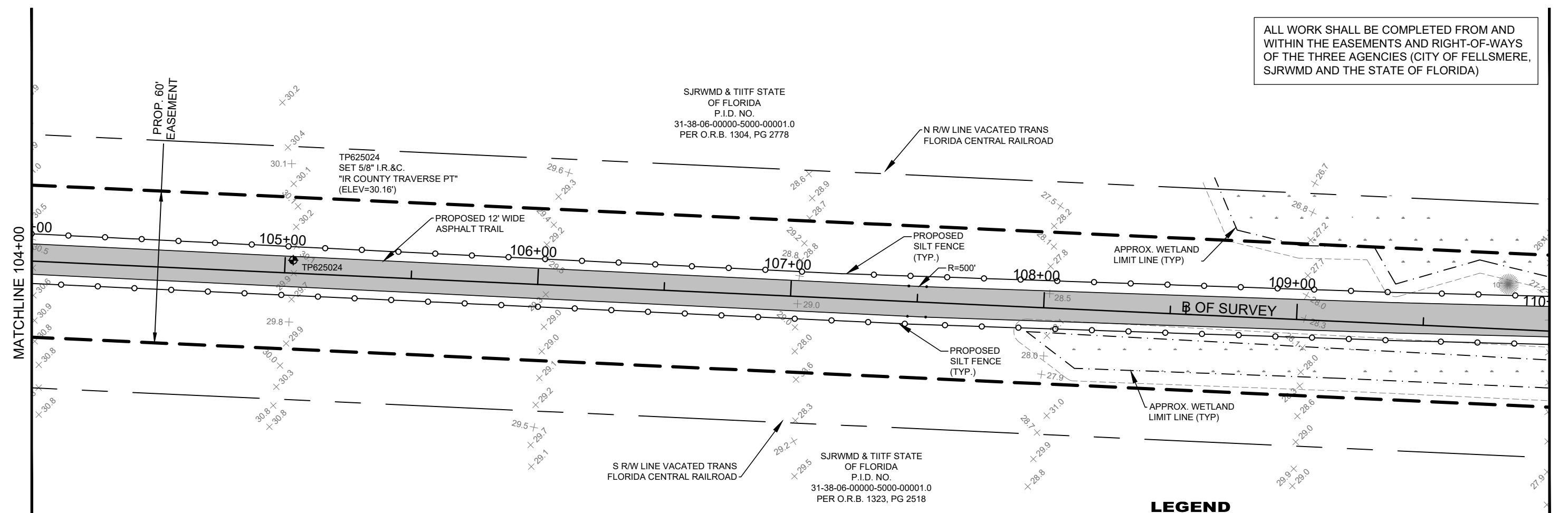
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HISTORIC TRANS-FLORIDA RAIL TRAIL EXTENSION
 INDIAN RIVER COUNTY FLORIDA

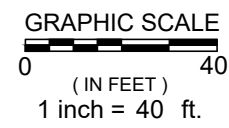
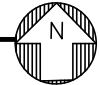
PLAN AND PROFILE		SHEET
		C23
DATE:	21-0311	

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TRAIL PLAN

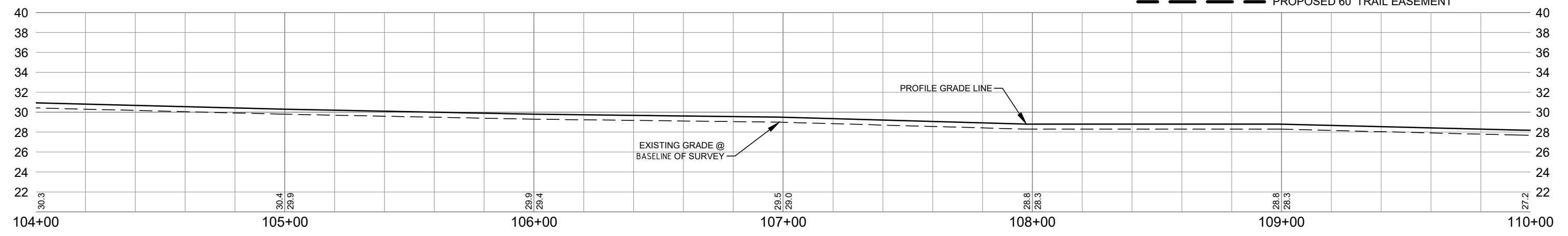
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LEGEND

- PROPOSED PAVED TRAIL
- EXISTING WETLAND
- EXISTING WETLAND BOUNDARY
- WETLAND BUFFER
- PROPOSED SILT FENCE
- EXISTING VACATED 100' R/W LINE
- PROPOSED 60' TRAIL EASEMENT



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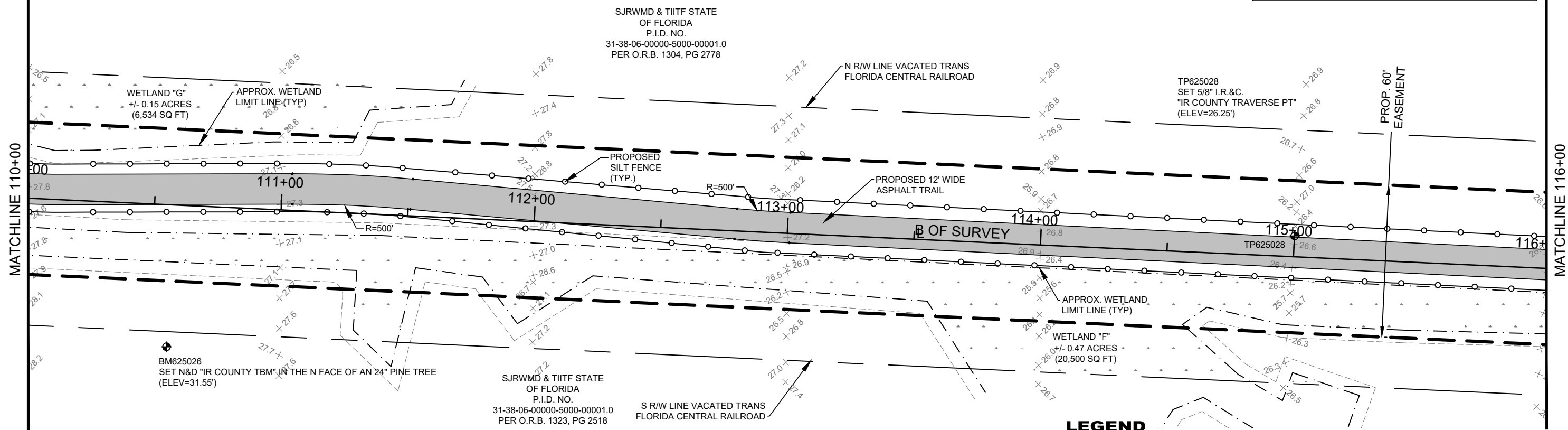
HISTORIC TRANS-FLORIDA RAIL TRAIL EXTENSION
INDIAN RIVER COUNTY
FLORIDA

PLAN AND PROFILE

SHEET
C24

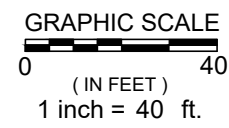
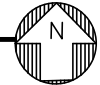
DATE: 21-0311

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TRAIL PLAN

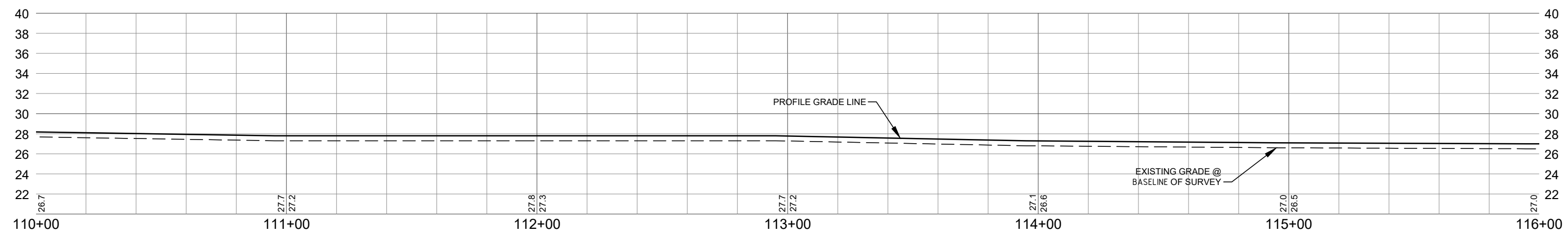
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LEGEND

- PROPOSED PAVED TRAIL
- EXISTING WETLAND
- EXISTING WETLAND BOUNDARY
- WETLAND BUFFER
- PROPOSED SILT FENCE
- EXISTING VACATED 100' R/W LINE
- PROPOSED 60' TRAIL EASEMENT



HORZ. SCALE: 1" = 40'
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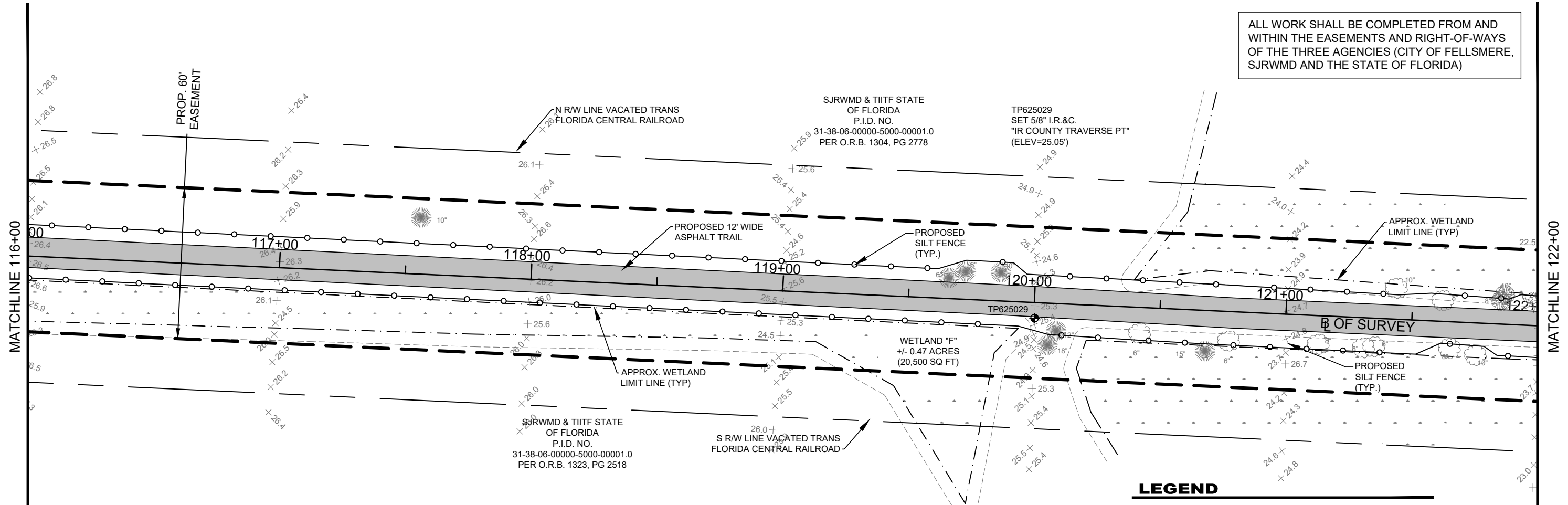
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HISTORIC TRANS-FLORIDA RAIL TRAIL EXTENSION
 FLORIDA
 INDIAN RIVER COUNTY

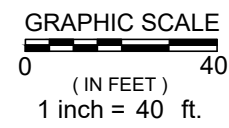
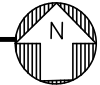
PLAN AND PROFILE	SHEET C25
DATE:	21-0311

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TRAIL PLAN

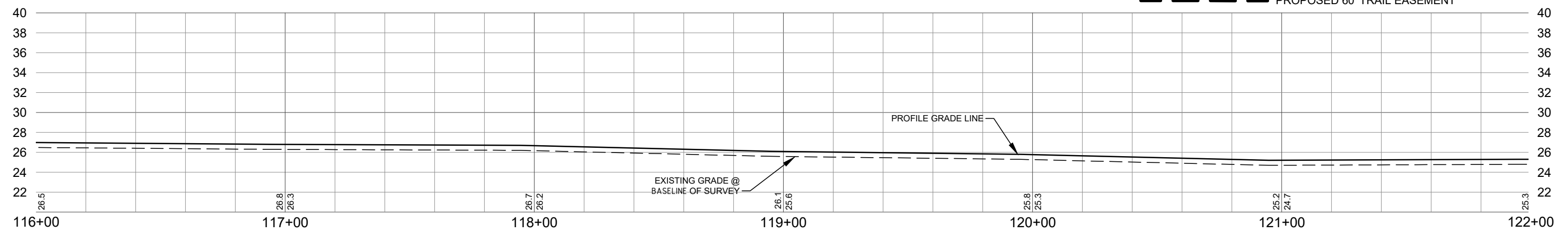
SCALE: 1" = 40'



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LEGEND

- PROPOSED PAVED TRAIL
- EXISTING WETLAND
- EXISTING WETLAND BOUNDARY
- WETLAND BUFFER
- PROPOSED SILT FENCE
- EXISTING VACATED 100' R/W LINE
- PROPOSED 60' TRAIL EASEMENT



HORZ. SCALE: 1" = 40'
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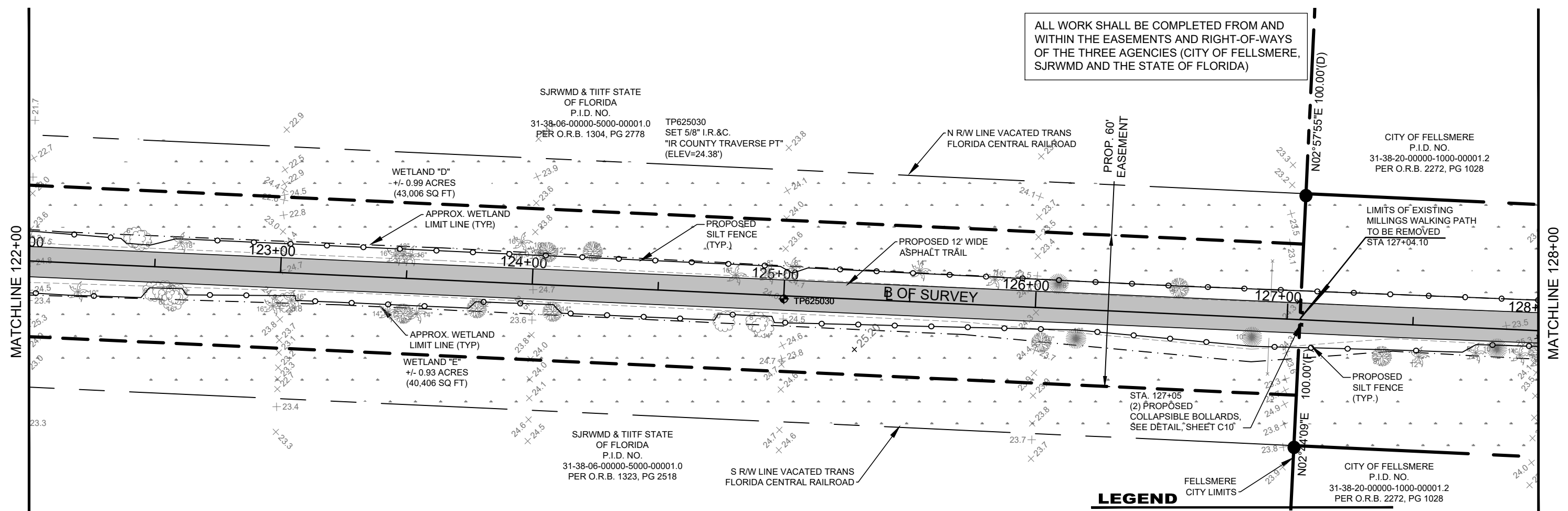
HISTORIC TRANS-FLORIDA RAIL TRAIL EXTENSION
 INDIAN RIVER COUNTY
 FLORIDA

PLAN AND PROFILE

SHEET
C26

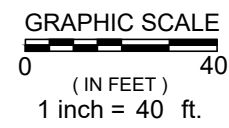
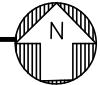
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TRAIL PLAN

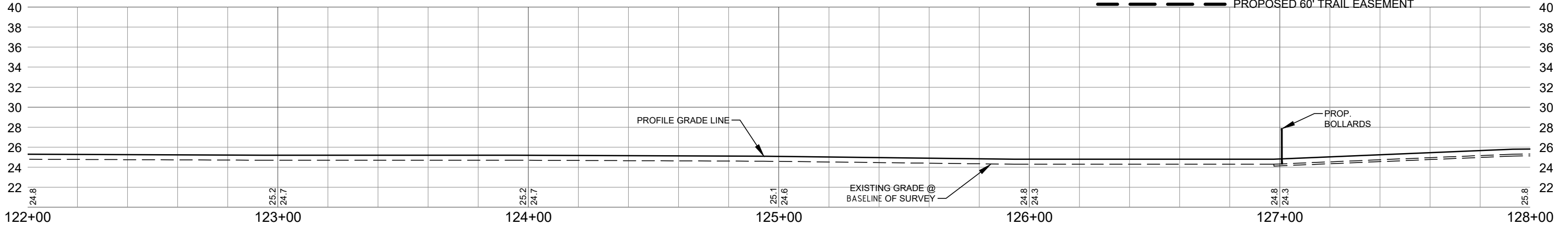
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LEGEND

- PROPOSED PAVED TRAIL
- EXISTING WETLAND
- EXISTING WETLAND BOUNDARY
- WETLAND BUFFER
- PROPOSED SILT FENCE
- EXISTING VACATED 100' R/W LINE
- EXISTING CITY OF FELLSMERE 100' TRAIL EASEMENT
- PROPOSED 60' TRAIL EASEMENT



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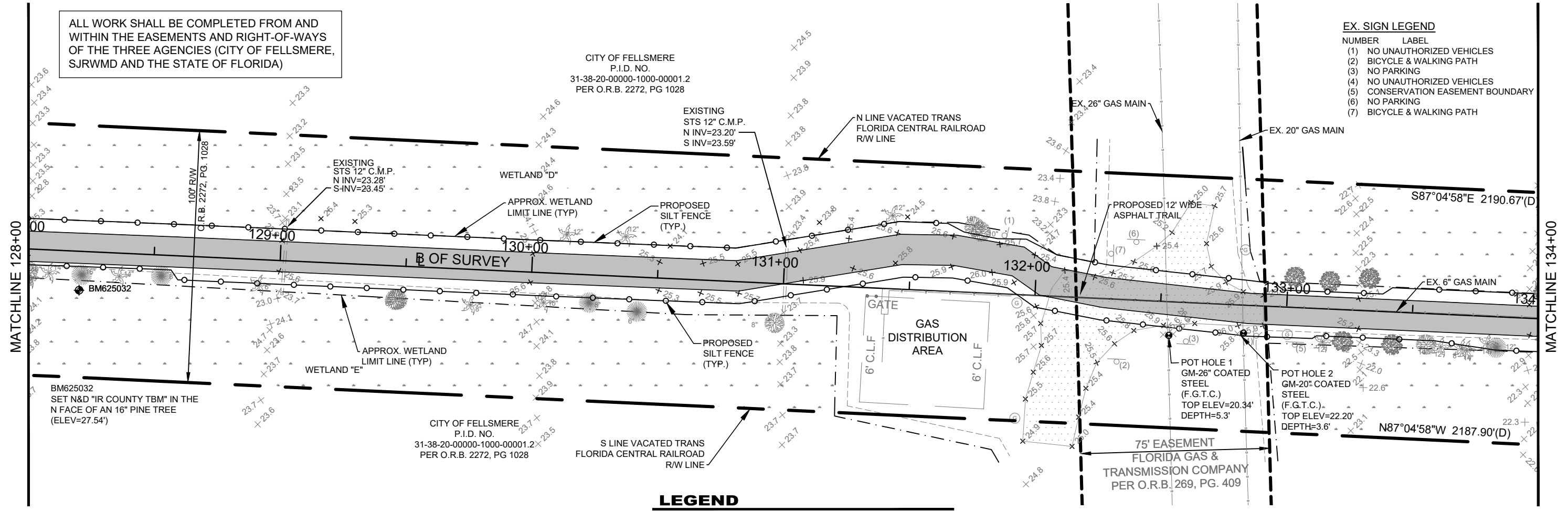
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HISTORIC TRANS-FLORIDA RAIL TRAIL EXTENSION
 INDIAN RIVER COUNTY
 FLORIDA

PLAN AND PROFILE	SHEET C27
DATE:	21-0311

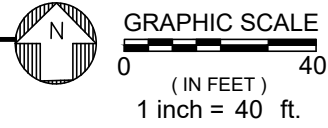
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- EX. SIGN LEGEND**
- | NUMBER | LABEL |
|--------|--------------------------------|
| (1) | NO UNAUTHORIZED VEHICLES |
| (2) | BICYCLE & WALKING PATH |
| (3) | NO PARKING |
| (4) | NO UNAUTHORIZED VEHICLES |
| (5) | CONSERVATION EASEMENT BOUNDARY |
| (6) | NO PARKING |
| (7) | BICYCLE & WALKING PATH |



TRAIL PLAN

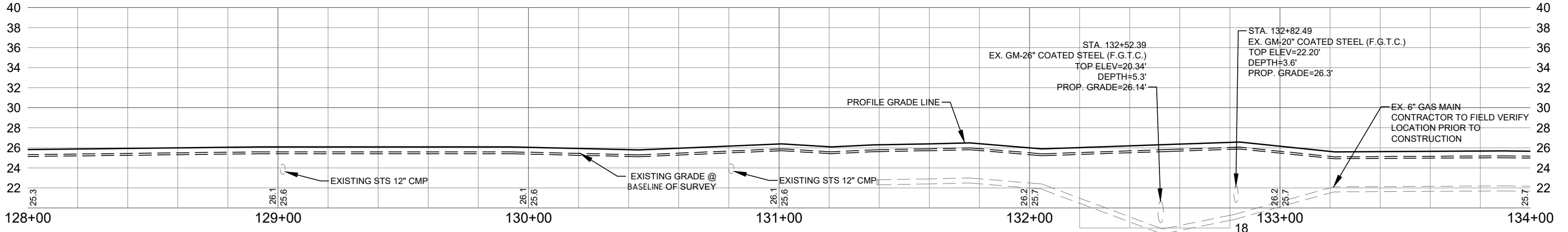
SCALE: 1" = 40'



LEGEND

- PROPOSED PAVED TRAIL
- EXISTING WETLAND
- EXISTING WETLAND BOUNDARY
- WETLAND BUFFER
- PROPOSED SILT FENCE
- EXISTING CITY OF FELLSMERE 100' TRAIL EASEMENT

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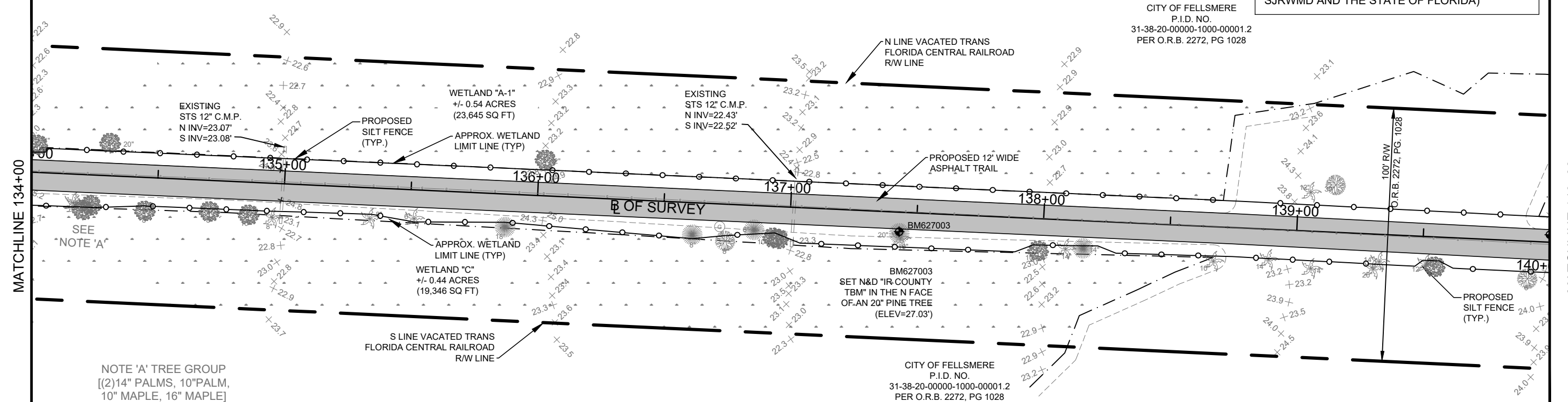
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HISTORIC TRANS-FLORIDA RAIL TRAIL EXTENSION
INDIAN RIVER COUNTY
FLORIDA

PLAN AND PROFILE		SHEET
		C28
DATE:	21-0311	

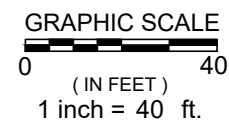
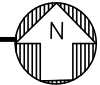
ALL WORK SHALL BE COMPLETED FROM AND WITHIN THE EASEMENTS AND RIGHT-OF-WAYS OF THE THREE AGENCIES (CITY OF FELLSMERE, SJRWMD AND THE STATE OF FLORIDA)

CITY OF FELLSMERE
P.I.D. NO.
31-38-20-00000-1000-00001.2
PER O.R.B. 2272, PG 1028



TRAIL PLAN

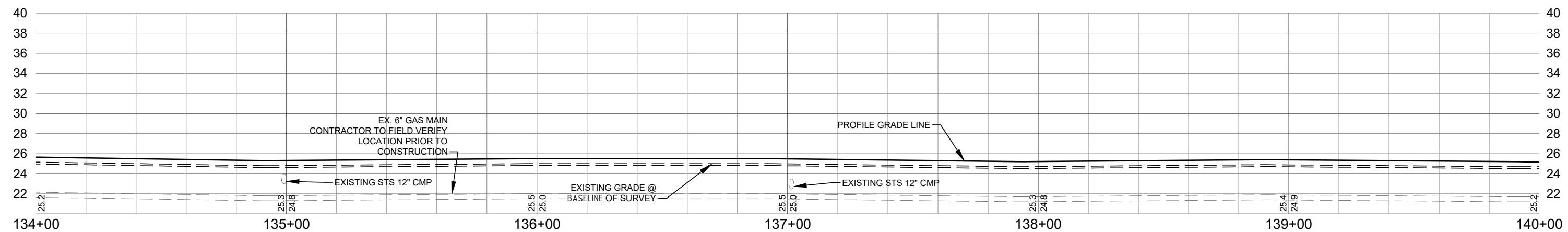
SCALE: 1" = 40'



NOTE:
CONTRACTOR TO INSTALL SILT FENCE AROUND EXISTING TREES AS NEEDED TO AVOID CONFLICTS. TO AVOID WETLAND IMPACTS, CONTRACTOR TO LOCATE SILT FENCE ON TRAIL- SIDE OF TREE EXCEPT IN THOSE LOCATIONS WHERE SILT FENCE AND CAN BE LOCATED ON THE BACKSIDE OF TREE WITHOUT IMPACT TO THE WETLAND AREA OR TREE.

LEGEND

- PROPOSED PAVED TRAIL
- EXISTING WETLAND
- EXISTING WETLAND BOUNDARY
- WETLAND BUFFER
- PROPOSED SILT FENCE
- EXISTING CITY OF FELLSMERE 100' TRAIL EASEMENT



HORZ. SCALE: 1" = 40'
VERT. SCALE: 1" = 4'

REVISIONS	DATE	JOB NO.	21-0311
DESIGNED	TH		
DRAWN	SS		
DATE	DEC. 2021		
CHECKED	AS		
DATE ISSUED	12/20/2022		

MBV ENGINEERING INC.
MOJIA BOWLES VILLAMIZAR & ASSOCIATES
CONSULTING ENGINEERING CA #3728

1835 20TH STREET
VERO BEACH, FL 32960
PH. (772) 569-0035
FX. (772) 778-3617

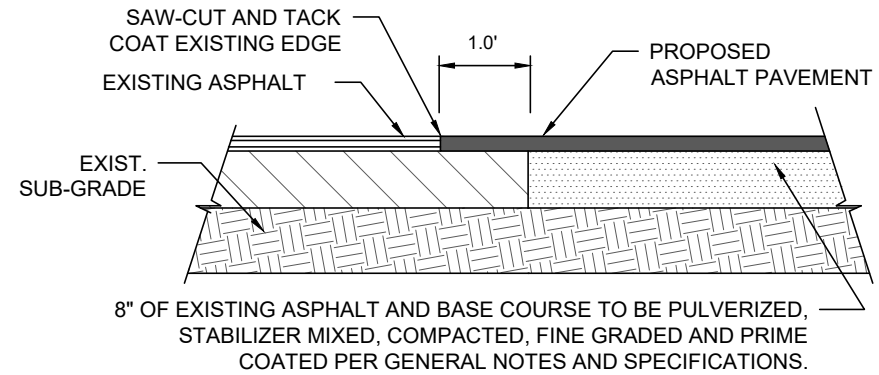
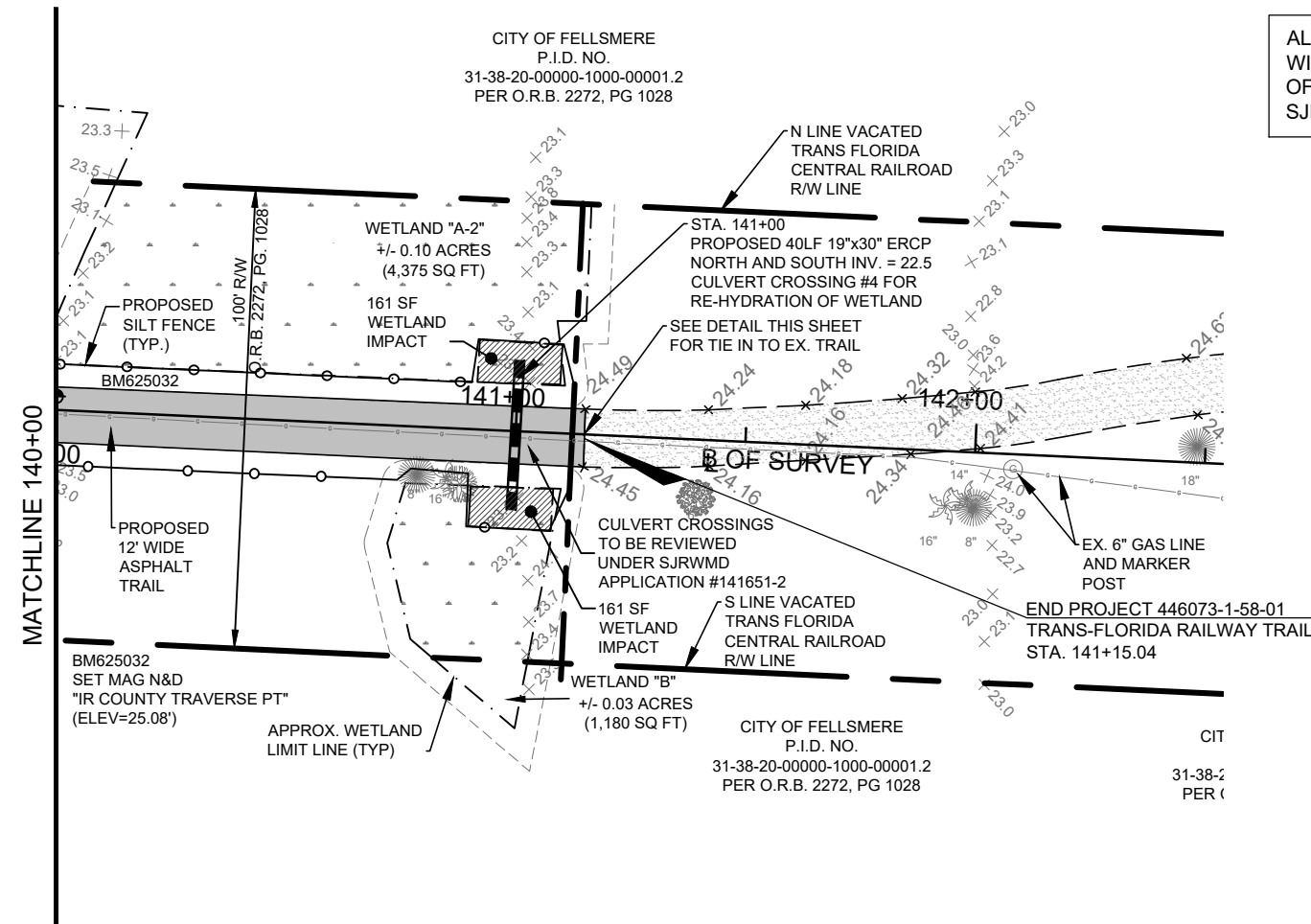
MELBOURNE, FL - PH (321) 253-1510
FT. PIERCE, FL - PH (772) 468-9055

HISTORIC TRANS-FLORIDA RAIL TRAIL EXTENSION
INDIAN RIVER COUNTY
FLORIDA

PLAN AND PROFILE		SHEET
		C29
DATE:	21-0311	

CITY OF FELLSMERE
P.I.D. NO.
31-38-20-00000-1000-00001.2
PER O.R.B. 2272, PG 1028

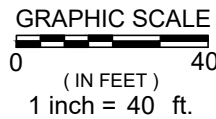
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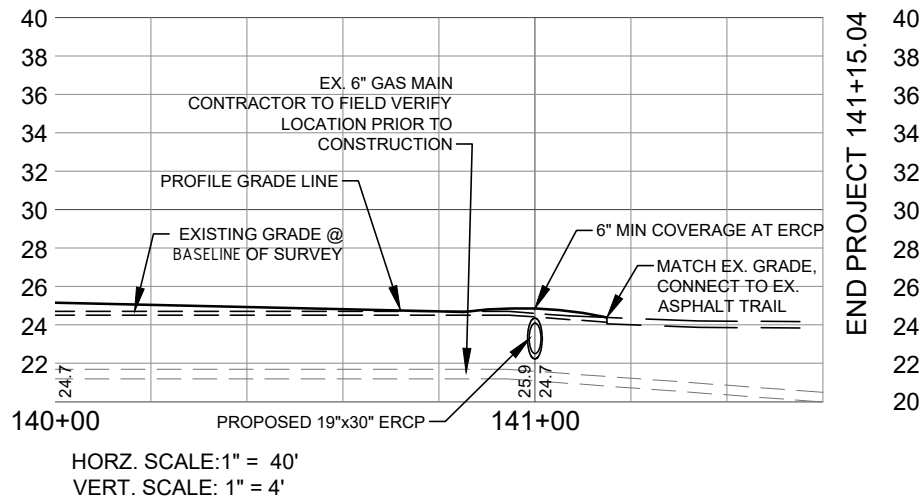
PAVEMENT SAW-CUT AND BUTT JOINT
N.T.S.

TRAIL PLAN

SCALE: 1" = 40'



NOTE:
CONTRACTOR TO INSTALL SILT FENCE AROUND EXISTING TREES AS NEEDED TO AVOID CONFLICTS. TO AVOID WETLAND IMPACTS, CONTRACTOR TO LOCATE SILT FENCE ON TRAIL-SIDE OF TREE EXCEPT IN THOSE LOCATIONS WHERE SILT FENCE AND CAN BE LOCATED ON THE BACKSIDE OF TREE WITHOUT IMPACT TO THE WETLAND AREA OR TREE.



LEGEND

- PROPOSED PAVED TRAIL
- EXISTING WETLAND
- PROPOSED WETLAND IMPACT
- EXISTING WETLAND BOUNDARY
- WETLAND BUFFER
- PROPOSED SILT FENCE
- EXISTING CITY OF FELLSMERE 100' TRAIL EASEMENT

REVISIONS	DATE	JOB NO.	21-0311
DESIGNED	TH		
DRAWN	SS		
PER FDOT LISTED SPECIES COMMENTS	05/02/2023	DATE	DEC. 2021
PER FPL COMMENTS	12/14/2022	CHECKED	AS
PER FDEP RAI #1 COMMENTS	09/09/2022	DATE ISSUED	12/20/2022
PER SJRWMD FIELD INSPECTION	08/23/2022		

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INDIAN RIVER COUNTY

HISTORIC TRANS-FLORIDA RAIL TRAIL EXTENSION

FLORIDA

PLAN AND PROFILE

DATE:

SHEET

C30

21-0311