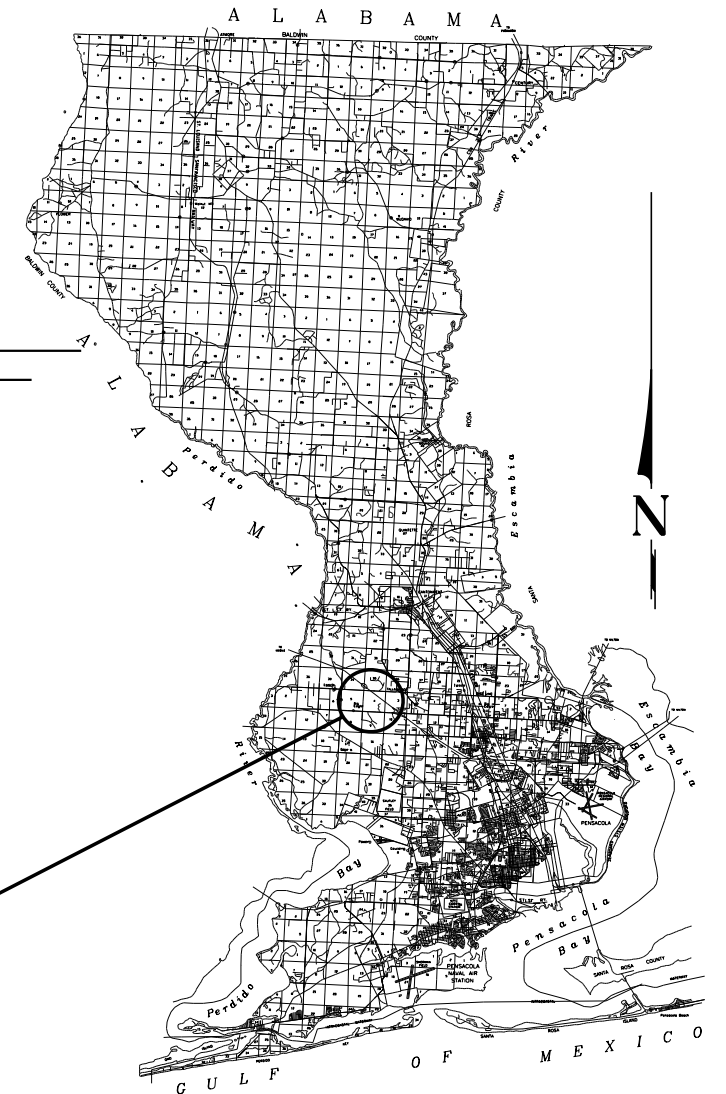




**BOARD OF COUNTY COMMISSIONERS  
 ESCAMBIA COUNTY, FLORIDA  
 PUBLIC WORKS DEPARTMENT  
 ENGINEERING / INFRASTRUCTURE DIVISION**



**INDEX OF PLANS**

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38-40	POND SOIL SURVEY
41-61	CROSS SECTIONS
62-72	TEMPORARY TRAFFIC CONTROL
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**PD 21-22.092**

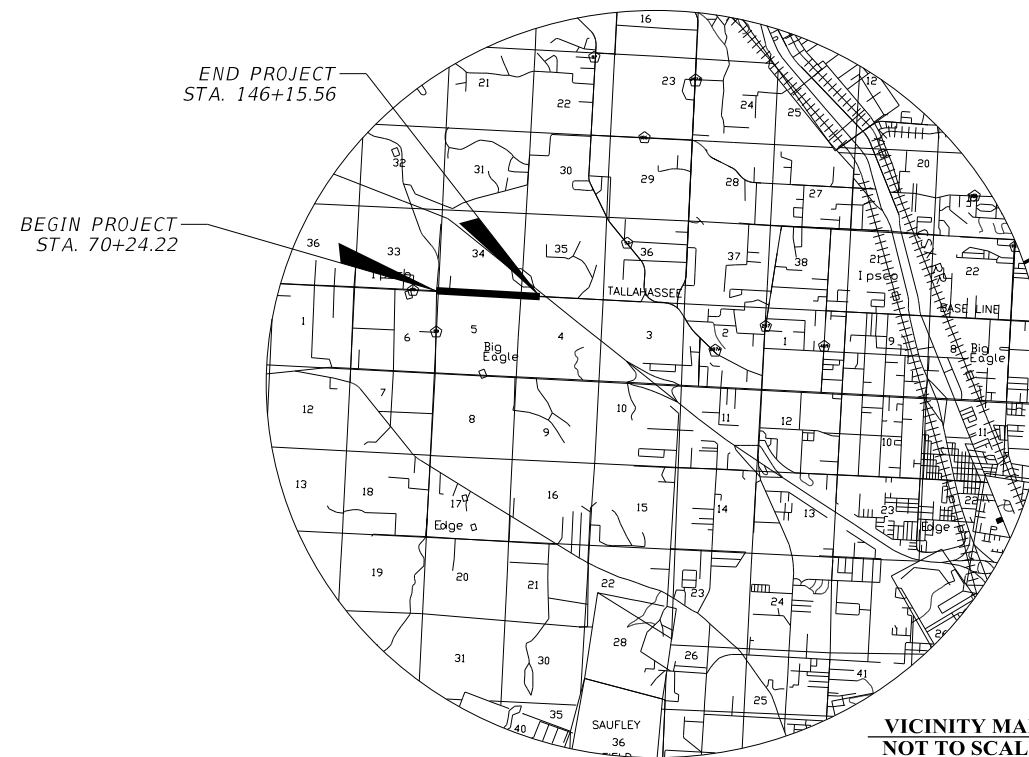
**PLANS PROPOSED FOR  
 FRANK REEDER ROAD  
 ENGINEERING DESIGN PHASE  
 60% ROADWAY PLANS**

GOVERNING STANDARDS AND SPECIFICATION:  
 FLORIDA DEPARTMENT OF TRANSPORTATION, STANDARD PLANS DATED FY 2023-24, THE  
 FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND  
 BRIDGE CONSTRUCTION DATED FY 2023-24, AS AMENDED BY CONTRACT DOCUMENTS, AND  
 THE LATEST ESCAMBIA COUNTY TECHNICAL SPECIFICATIONS.

STANDARD PLANS FOR ROAD CONSTRUCTION AND ASSOCIATED IR'S ARE AVAILABLE AT  
 THE FOLLOWING WEBSITE:  
[HTTPS://WWW.FDOT.GOV/DESIGN/STANDARDPLANS/CURRENT/DEFAULT.SHTM](https://www.fdot.gov/design/standardplans/current/default.shtm)

STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION ARE AVAILABLE AT  
 THE FOLLOWING WEBSITE: [HTTPS://WWW.FDOT.GOV/  
 PROGRAMMANAGEMENT/IMPLEMENTED/SPECBOOKS/DEFAULT.SHTM](https://www.fdot.gov/programmanagement/implemented/specbooks/default.shtm)

ANY REFERENCE TO FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE  
 CONSTRUCTION, LATEST EDITION, DIVISION 1, GENERAL REQUIREMENTS AND COVENANTS,  
 SHALL BE EXCLUDED AND NOT APPLICABLE TO ANY SPECIFICATION REFERRED HEREIN  
 OR OTHERWISE LISTED IN THESE PLANS OR RELATED DOCUMENTS OR THE ESCAMBIA  
 COUNTY TECHNICAL SPECIFICATIONS.



- COMMISSIONERS**
- DISTRICT 1     JEFF BERGOSH
  - DISTRICT 2     MIKE KOHLER
  - DISTRICT 3     LUMON MAY
  - DISTRICT 4     ROBERT BENDER, VICE CHAIRMAN
  - DISTRICT 5     STEVEN BARRY, CHAIRMAN

KEY SHEET REVISIONS	
DATE	DESCRIPTION

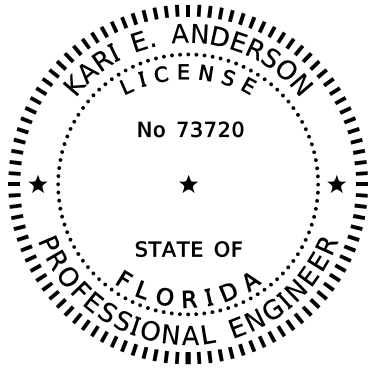
LENGTH OF PROJECT		
	LINEAR FEET	MILES
ROADWAY	7591.34	1.438
BRIDGES	0.00	0.000
NET LENGTH OF PROJECT	7591.34	1.438
EXCEPTIONS	0.00	0.000
GROSS LENGTH OF PROJECT	7591.34	1.438

ESCAMBIA COUNTY PROJECT MANAGER: CORY ROBERTS JR.



4489 Woodbine Road • Pace, Florida 32571  
 Tel 850.289.1000 • Fax 850.289.1001

PHASE	REVIEW	DATE	ORIGINATOR (OR)	CHECKER (CP)	CHANGES INCORPORATED	ORIGINATOR (OR)	CHECKER (CP)	CHANGES INCORPORATED	ORIGINATOR (OR)	CHECKER (CP)	CHANGES INCORPORATED	VERIFICATION CHECKER (VC)	REMARK INCORPORATION	ORIGINATOR VERIFICATION	DATE
SIGNATURE:															



THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY

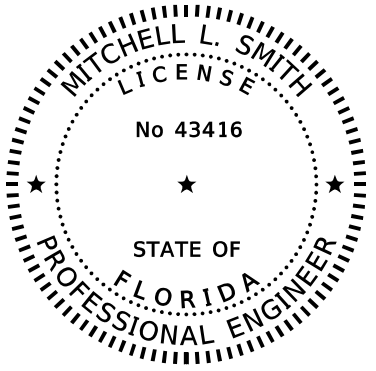
ON THE DATE ADJACENT TO THE SEAL  
 PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES  
 AMERICAN CONSULTING ENGINEERS OF FLORIDA, LLC.  
 4489 Woodbine Rd.  
 Pace, Florida 32571

Kari E. Anderson, P.E. No. 73720

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

### ROADWAY PLANS

SHEET NO.	SHEET DESCRIPTION
1	KEY SHEET
2	SIGNATURE SHEET
3	GENERAL NOTES
4	SUMMARY OF PLAN QUANTITIES
5 - 9	TYPICAL SECTION
10	PROJECT LAYOUT
11 - 12	DRAINAGE MAP
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19 - 30	PLAN & PROFILE
31	POND DETAIL
41 - 61	CROSS SECTIONS
62 - 72	TEMPORARY TRAFFIC CONTROL
73 - 84	SIGNING & PAVEMENT MARKING



THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY

ON THE DATE ADJACENT TO THE SEAL  
 PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES  
 TIERRA, INC.  
 7351 Temple Terrace Highway  
 Tampa, Florida 33637

Mitchell L. Smith, P.E. No. 43416

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

### ROADWAY PLANS

SHEET NO.	SHEET DESCRIPTION
2	SIGNATURE SHEET
32	ROADWAY SOIL SURVEY
33 - 35	BORING LOCATION PLAN
36 - 37	ROADWAY SOIL PROFILES
38 - 40	POND SOIL SURVEY

FRANK REEDER ROAD  
ENGINEERING DESIGN

SIGNATURE SHEET

KARIE ANDERSON, P.E. No. 73720

DATE: \_\_\_\_\_

PROJECT LOCATION:  
FRANK REEDER ROAD

PROJECT NUMBER:  
PD-21-23-002

PROJECT MANAGER:  
KARIE ANDERSON, PE

4489 WOODBINE ROAD • PACE, FLORIDA 32571  
Tel 850.289.1000 • Fax 850.289.1001  
Certificate of Authorization No. 9302

NUMBER	REVISIONS	DATE	APPROVED BY

SHEET 2

PHASE	REVIEW	ORIGINATOR (OP)	DATE	ORIGINATOR (OP)	CHECKER (CP)	CHANGE INCORPORATION	ORIGINATOR (OP)	DATE	CHECKER (CP)	ORIGINATOR (OP)	DATE	ORIGINATOR (OP)	DATE	ORIGINATOR (OP)	DATE	ORIGINATOR (OP)	DATE	ORIGINATOR (OP)	DATE

GENERAL NOTES

- 1. THE CONTRACTOR SHALL NOTIFY THE COUNTY DESIGN ENGINEER OR DESIGNEE 48 HOURS PRIOR TO BEGINING CONSTRUCTION.
2. ALL CONDITIONS AND STIPULATIONS OF THE CONSTRUCTION PERMITS AND THE APPROVALS ISSUED BY THE ESCAMBIA COUNTY ENGINEER OR DESIGNEE SHALL BE COMPLIED WITH IN EVERY DETAIL.
3. ALL ROADS DAMAGED BY CONSTRUCTION OPERATIONS ARE TO BE PATCHED OR RECONSTRUCTED AS DIRECTED BY THE COUNTY ENGINEER OR DESIGNEE.
4. THE CONTRACTOR SHALL TAKE STEPS NECESSARY TO PREVENT EROSION AND ANY OFF SITE SEDIMENT TRANSPORT RESULTING FROM INCREASED RUNOFF DURING CONSTRUCTION BY PROVIDING FLOATING TURBIDITY BARRIER AS REQUIRED BY FDOT SPECIFICATION 104, THE FLORIDA STORMWATER, EROSION, AND SEDIMENT CONTROL INSPECTOR'S MANUAL, 2000 EDITION, OR AS INDICATED ON THE PLANS. ALL EROSION CONTROL MEASURES SHALL REMAIN IN PLACE UNTIL ASSOCIATED DISTURBED AREAS ARE STABILIZED AS TO REDUCE SEDIMENT RUNOFF, UNLESS OTHERWISE DIRECTED BY THE COUNTY ENGINEER OR DESIGNEE.
5. ANY NECESSARY PERMITS WILL BE THE RESPONSIBILITY OF THE CONTRACTOR. ESCAMBIA COUNTY ENGINEER OR ITS DESIGNEE WILL ASSIST CONTRACTOR WITH REQUIRED PERMITS.
6. THE CONTRACTOR IS CAUTIONED TO VISIT THE SITE AND FAMILIARIZE HIMSELF WITH THE PROJECT PRIOR TO BIDDING AND/OR CONSTRUCTION
7. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PRESERVE OR RELOCATE ALL BENCHMARKS (VERTICAL CONTROL) AS NEEDED DURING CONSTRUCTION. ALL PUBLIC OR PRIVATE CORNER MONUMENTATION SHALL BE PROTECTED. IF A PUBLIC OR PRIVATE CORNER MONUMENTATION IS IN DANGER OF BEING DESTROYED AND HAS NOT BEEN PROPERLY REFERENCED, THE CONTRACTOR SHALL NOTIFY THE COUNTY ENGINEER OR DESIGNEE IMMEDIATELY. ANY ESCAMBIA COUNTY HIGH ACCURACY REFERENCE NETWORK (HARN)/GPS NETWORK MONUMENTS OR BUREAU OF SURVEY AND MAPPING GPS NETWORK MONUMENTS WITHIN THE LIMIT OF CONSTRUCTION SHALL BE PROTECTED. IF A HARN/GPS NETWORK MONUMENTS OR BUREAU OF SURVEY AND MAPPING GPS NETWORK MONUMENTS ARE DISTURBED OR DESTROYED THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACEMENT OF THE MONUMENTS AND HAVE THE MONUMENT'S POSITION DETERMINED BY A FLORIDA LICENSED PROFESSIONAL SURVEYOR AND MAPPER USING GUIDELINES AS ESTABLISHED BY NATIONAL GEODETIC SURVEY FOR BLUE BOOKING AND APPROVAL.
8. EXISTING DRAINAGE FEATURES WITHIN CONSTRUCTION LIMITS SHALL REMAIN UNLESS OTHERWISE NOTED.
9. THE CONTRACTOR SHALL MATCH EXISTING CONDITIONS AT THE BEGINNING AND END OF CONSTRUCTION AS DIRECTED BY THE COUNTY ENGINEER OR DESIGNEE.
10. EXISTING STREETS AND DRIVES SHALL BE MAINTAINED TO LOCAL TRAFFIC AND PROPERTY OWNERS.
11. ALL ROADWAY CONSTRUCTION SHALL COMPLY WITH THE ESCAMBIA COUNTY TECHNICAL SPECIFICATIONS, LATEST EDITION.
12. ALL MATERIALS, TESTING AND CONSTRUCTION METHODS SHALL CONFORM TO THE ESCAMBIA COUNTY TECHNICAL SPECIFICATIONS, LATEST EDITION.
13. ANY REFERENCE TO FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, LATEST EDITION, DIVISION 1, GENERAL REQUIREMENTS AND COVENANTS, SHALL BE EXCLUDED AND NOT APPLICABLE TO ANY SPECIFICATION REFERRED HEREIN OR OTHERWISE LISTED IN THESE PLANS OR RELATED DOCUMENTS OR THE ESCAMBIA COUNTY TECHNICAL SPECIFICATIONS.
14. EXISTING STREET AND ROAD NAME SIGNS ON THE PROJECT SHALL BE KEPT VISIBLE AT ALL TIMES FOR THE FACILITATION OF ACCESS BY EMERGENCY VEHICLES. ALL OTHER EXISTING SIGNS THAT CONFLICT WITH CONSTRUCTION OPERATIONS SHALL BE TAKEN DOWN AND STOCKPILES WITHIN THE R/W LIMITS BY THE CONTRACTOR AS DIRECTED BY THE COUNTY ENGINEER OR DESIGNEE. ANY EXISTING SIGNS THAT ARE TO BE RELOCATED AND ARE DAMAGED BEYOND USE BY THE CONTRACTOR SHALL BE REPLACED BY THE CONTRACTOR AT HIS EXPENSE.
15. THE CONTRACTOR SHALL MAINTAIN AT LEAST ONE 10' LANE OPEN AT ALL TIMES. NO OPEN EXCAVATION ON THE ROADWAY SHALL REMAIN OVER NIGHT. CONTRACTOR SHALL RESTORE ROAD TO TWO LANES OF TRAFFIC AT THE END OF EACH WORK DAY.
16. CONTRACTOR SHALL COMPLY WITH ALL F.D.E.P. AND ARMY CORP. OF ENGINEERS REQUIREMENTS.
17. ONLY ACCESS TO THE ROAD R/W AS SHOWN IS GUARANTEED BY THE COUNTY. PRIVATE R/W REQUIRED BY THE CONTRACTOR TO FACILITATE CONSTRUCTION SHALL BE ACQUIRED BY THE CONTRACTOR WITH NO ADDITIONAL COMPENSATION OR ASSISTANCE FROM THE COUNTY.

- 18. IN THE EVENT THAT SURVEY MONUMENTATION OR REFERENCE POINTS ARE MISSING OR HAVE BEEN DESTROYED, PLEASE CONTACT:
ESCAMBIA COUNTY SURVEYOR
3363 WEST PARK PLACE
PENSACOLA, FLORIDA 32505 PH (850) 595-3427
19. VEGETATION ON R/W AND EASEMENTS SHALL BE RESTORED TO ORIGINAL CONDITION UNLESS OTHERWISE NOTED ON THE PLAN SHEETS. COST OF SAID RESTORATION SHALL BE CONSIDERED INCIDENTAL TO OTHER PAY ITEMS.
20. ALL COMPACTED FILL SHALL BE PLACED IN 4" LIFTS FOR HAND POWERED TAMPERS AND 8" LIFTS FOR HEAVY EQUIPMENT OPERATED TAMPERS.
21. ALL CURB CUT RAMPS WILL BE CR-F UNLESS OTHERWISE NOTED IN THE PLANS.
22. CONTRACTOR SHALL PREPARE AND SUBMIT FOR APPROVAL AN EROSION CONTROL AND STAGING PLAN.
23. IF ARCHAEOLOGICAL MATERIAL/PREHISTORIC ARTIFACTS SUCH AS POTTERY OR CERAMICS, STONE TOOLS OR METAL IMPLEMENTS, OR ANY OTHER PHYSICAL REMAINS THAT COULD BE ASSOCIATED WITH NATIVE CULTURES, OR EARLY COLONIAL OR AMERICAN SETTLEMENT ARE ENCOUNTERED AT ANY TIME, THE PROJECT SHOULD CEASE ALL ACTIVITIES INVOLVING SUBSURFACE DISTURBANCE IN THE IMMEDIATE VICINITY OF SUCH DISCOVERIES. THE APPLICANT/RECIPIENT, OR OTHER DESIGNEE, SHOULD CONTACT THE FLORIDA DEPARTMENT OF STATE, DIVISION OF HISTORICAL RESOURCES, THE STATE HISTORIC PRESERVATION OFFICER (SHPO) AND THE DSH/FEMA REGION IV ENVIRONMENTAL OFFICER AND FDEM STATE ENVIRONMENTAL LIASON OFFICER FOR FURTHER GUIDANCE. PROJECT ACTIVITIES SHOULD NOT RESUME WITHOUT VERBAL AND/OR WRITTEN AUTHORIZATION FROM THE DIVISION OF HISTORICAL RESOURCES.

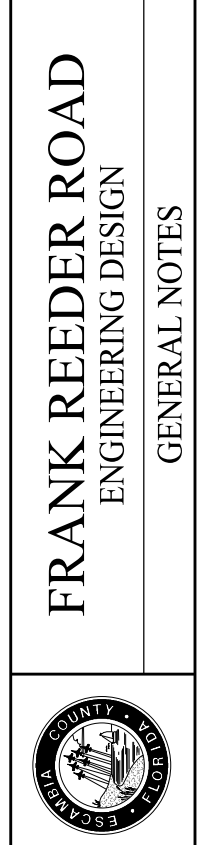
UTILITY NOTES

- 24. THE LOCATION SHOWN FOR EXISTING UNDERGROUND UTILITIES IS APPROXIMATE. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK IN EACH AREA. THE CONTRACTOR AGREES TO BE COMPLETELY RESPONSIBLE FOR ALL DAMAGES WHICH MIGHT OCCUR BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE ALL UTILITES.
25. UTILITY OWNERS SHALL BE NOTIFIED AT LEAST 48 HOURS PRIOR TO ANY CONSTRUCTION SO THAT THE UTILITY OWNER CAN SPOT VERIFY AND/OR EXPOSE THEIR UTILITES

KNOWN UTILITIES OWNERS INCLUDE:

FIBER - AT&T/COMMUNICATION KEVIN TALECKI/MIKE GAMBOA (610) 200-3365
NATURAL GAS - PENSACOLA ENERGY DIANE MOORE (850) 474-5319
SEWER, WATER - EMERALD COAST UTILITY AUTHORITY BRANDON KNIGHT, P.E. (850) 969-6650
ELECTRICAL - FLORIDA POWER & LIGHT - PENSACOLA NORTH USIC DISPATCH CENTER (800) 778-9140
CATV - CHARTER COMMUNICATIONS MICHAEL GRISETT (334) 676-4901
TELEPHONE - AT&T/DISTRIBUTION DINO FARRUGGIO (561) 683-2729
TRANSCORE INC JONATHAN BAILEY (850) 462-6030
FARM HILL UTILITES, INC. SHAUN CONDON/SHANE WILEY (850) 968-2573

- 26. AT&T FLORIDA WILL COMPLETE ALL WORK DURING THE HOURS OF 7:30 AM - 4:30 PM, MONDAY THRU FRIDAY, NO NIGHT OR WEEKEND WORK.
27. ALL CABLE DAMAGE MUST BE REPORTED TO THE AT&T FLORIDA REPAIR SERVICE DEPARTMENT AT 611 FROM A LAND LINE OR 877-737-2478 IF USING A CELL PHONE.
28. CONTRACTOR IS TO USE CAUTION WHEN WORKING IN OR AROUND AREAS OF OVERHEAD TRANSMISSION LINES AND UNDERGROUND UTILITES.
29. UTILITIES TO REMAIN AND BE PROTECTED DURING CONSTRUCTION. NECESSARY REPAIRS SHALL BE CONSIDERED INCIDENTAL TO OTHER PAY ITEMS AND SHALL BE TO THE SATISFACTION OF UTILITY OWNERS.



KARLE ANDERSON, P.E. No. 73720
DATE:
PROJECT LOCATION: FRANK REEDER ROAD
PROJECT NUMBER: PD 21-2302
PROJECT MANAGER: KARLE ANDERSON, PE

American Consulting logo
4489 Woodstone Road • Ft. Pierce, Florida 34947
Tel 850.289.1000 • Fax 850.289.1001
Certificate of Authorization No. 9302

NUMBER	DATE	APPROVALS	REVISIONS

PHASE	REVIEW	DATE	ORIGINATOR (OR)	CHECKER (CP)	CHANGECORPORATION	DATE	ORIGINATOR (OR)	CHECKER (CP)	CHANGECORPORATION	DATE	ORIGINATOR (OR)	CHECKER (CP)	CHANGECORPORATION	DATE	ORIGINATOR (OR)	CHECKER (CP)	CHANGECORPORATION	DATE	

SUMMARY OF PLAN QUANTITIES

Item No.	Description	Unit	Quantity
1	Sediment Barrier	LF	13014
2	Clearing & Grubbing	AC	21.92
3	Removal of Existing Concrete Driveway	SY	170
4	Removal of Existing Concrete Sidewalk	SY	436
5	Removal of Existing Concrete Curb	LF	656
6	Pipe Removal, 6"-24"	LF	531
7	Remove Existing Concrete Headwall, 6"-24" Pipe	EA	2
8	Remove MES for 6"-24" (or equivalent) pipe	EA	7
9	Remove Tree, less than 12"	EA	3
10	Remove Tree, 13"-24"	EA	8
11	Remove Tree, 25"-48"	EA	8
12	Remove Tree, over 48"	EA	1
13	Remove Existing Wood Fence	LF	230
14	Remove Existing Chain Link Fence	LF	1226
15	Remove Existing Barbed Wire Fence	LF	5935
16	Remove Existing Field Wire Fence	LF	565
17	Mailbox, Furnish and Install, Single	EA	28
18	Earthwork Excavation by machine	CY	16329.9
19	Earhtwork - Subsoil Excavation	CY	2524.2
20	Earthwork - Borrow (Fill)	CY	2189.3
21	Milling Existing Asphalt Pavement, 1.5" Average Depth	SY	1386
22	Superpave Asphaltic Concrete, Traffic B, Type SP-12.5, 2"	SY	35510
23	Asphalt Concrete Friction Course, Traffic B, FC-12.5, PG 76-22	SY	35510
24	12" Stabilized Subgrade	SY	39781
25	8" Graded Aggregate Base Min. LBR 100 at 100% Modified Proctor	SY	35510
26	5' Fiber Reinforced Concrete Sidewalk, over 80lf	LF	8456
27	6' Fiber Reinforced Concrete Sidewalk, over 70lf	LF	1814
28	8' Fiber Reinforced Concrete Sidewalk, over 50sy	SY	4739
29	6" Fiber Reinforced Concrete Driveway, over 30sy	SY	826
30	Concrete Curb & Gutter, Type E	LF	1883
31	Concrete Curb & Gutter, Type F	LF	14504
32	Detectable Warnings	SF	424
33	Pipe Culvert, Optional Material, Round 18" S/CD	LF	3197
34	Pipe Culvert, Optional Material, Round 24" S/CD	LF	2404
35	Pipe Culvert, Optional Material, Round 30" S/CD	LF	1605

Item No.	Description	Unit	Quantity
36	Pipe Culvert, Optional Material, Round 36" S/CD	LF	270
37	Ditch Bottom Inlet, Type C, 0'-6' depth	EA	4
38	Curb Inlet Top, Type 5	EA	41
39	Curb Inlet Top, Type 6	EA	12
40	3'6" X 3'6" Structure Bottom, FDOT Index 200, 0-6' depth	EA	50
41	3'6" X 3'6" Structure Bottom, FDOT Index 200, 6-12' depth	EA	1
42	5' Dia. Structure Bottom, FDOT Index 200, 0-6' depth	EA	2
43	Manholes, J-7 Partial	EA	1
44	Remove Inlet Top	EA	1
45	Tie to Existing Inlets, Pipe, Manhole	EA	1
46	Inlets, Closed Flume	EA	6
47	Mitered End Section, Optional Round, 18" SD	EA	4
48	Mitered End Section, Optional Round, 18" CD	EA	1
49	Mitered End Section, Optional Round, 30" CD	EA	1
50	Mitered End Section, Optional Round, 36" CD	EA	1
51	Fencing, Type A, 0.0-5.0', Standard	LF	5224
52	Fencing, Type B, 5.1-6.0', Standard	LF	1117
53	Fencing, Wood Split Rail Fence	LF	506
54	Fencing, Wood Fence, 0.0-5.0'	LF	20
55	Single Post Sign, F&I Ground Mount, Up to 12 SF	AS	26
56	Single Post Sign, Remove	EA	25
57	Bermuda Sod, Staked	SY	18056
58	Thermoplastic, Standard White, Solid, 12" For Crosswalks	LF	1290
59	Thermoplastic, Standard White, Solid, 24" For Stop Lines	LF	248
60	Thermoplastic, Pre-Formed White, Messages	EA	23
61	Thermoplastic Directional Arrow, Single Head (Straight Ahead) 12sf	EA	23
62	Thermoplastic Directional Arrow, Single Head (Turn Left/ Right) 16sf	EA	50
63	Thermoplastic, Standard-Other Surfaces, White, Solid, 6"	LF	14029
64	Thermoplastic, Standard-Other Surfaces, White, Skip, 6", Dotted	LF	1341
65	Thermoplastic, Standard Yellow, Solid, 18" For Diagonals	LF	740
66	Thermoplastic, Standard-Other Surfaces, Yellow, Solid, 6"	LF	16083
67	Thermoplastic, Standard-Other Surfaces, Yellow, Skip, 6", 10'-30'	LF	6721
68	Concrete Class NS, Gravity Wall Index 400-011	CY	12.4
69	Pipe Handrail - Guiderail, Aluminum	LF	130

FRANK REEDER ROAD  
ENGINEERING DESIGN  
SUMMARY OF PLAN QUANTITIES



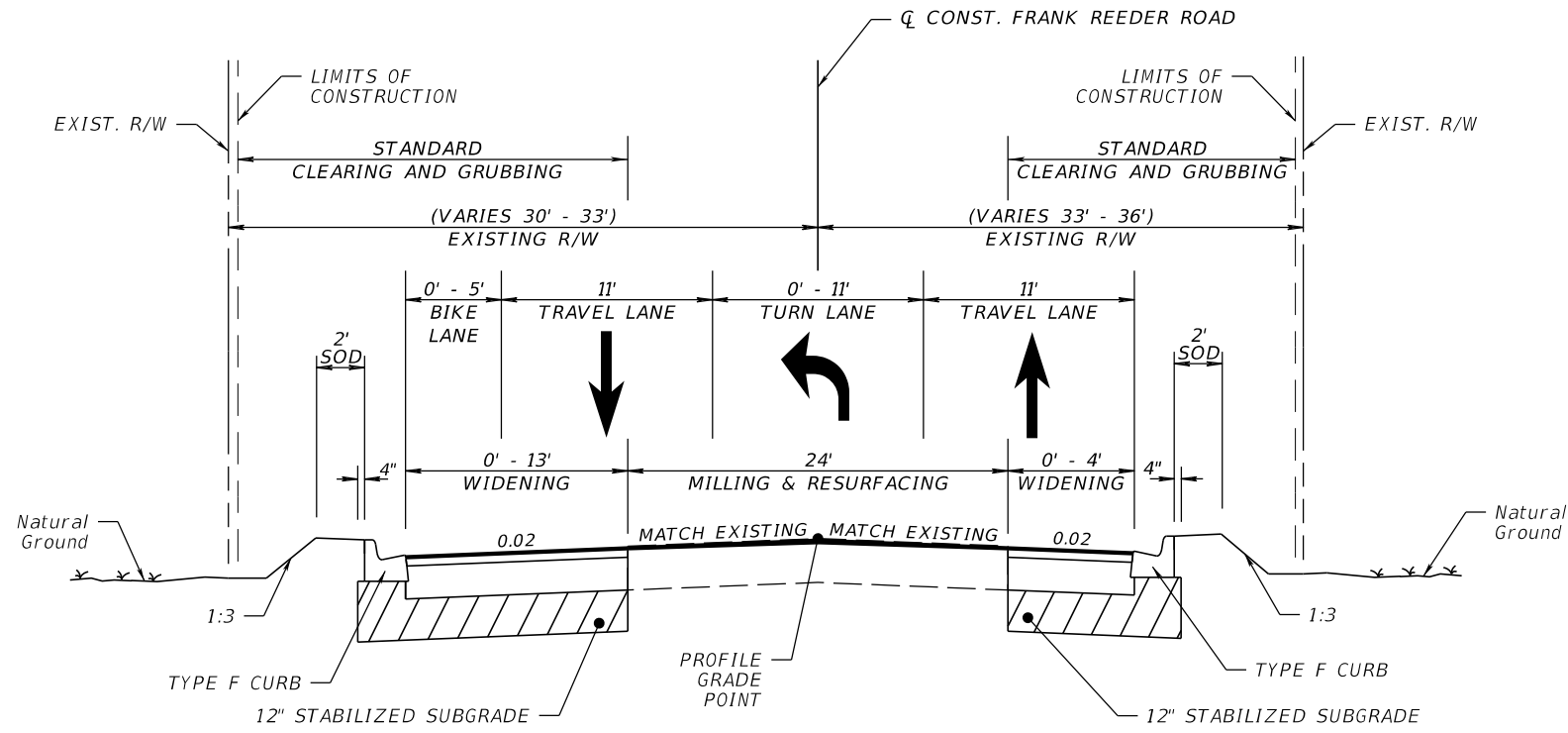
KARLE ANDERSON, P.E. No. 73720  
DATE: \_\_\_\_\_  
PROJECT LOCATION: FRANK REEDER ROAD  
PROJECT NUMBER: PD-21-23-002  
PROJECT MANAGER: KARLE ANDERSON, PE



NUMBER	DATE	APPROVAL

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PHASE	REVIEW	DATE	ORIGINATOR (OR)	CHECKER (CP)	DATE	VERIFICATION CHECKER (VC)	DATE
SIGNATURE:			PRODUCTION CHECKING COMPLETE, READY FOR SUBMITAL REVIEW (RP)	CHANGE INCORPORATION (VH)		REMARK INCORPORATION (BH)	



STA. 70+24.22 TO STA. 74+56.19

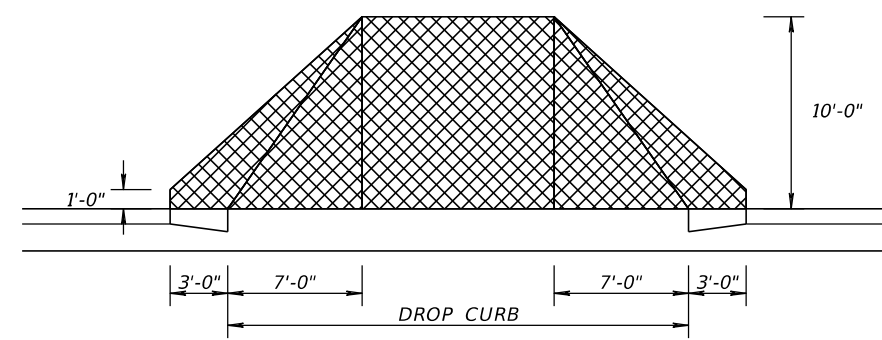
**WIDENING PAVEMENT**

- 1.5" ASPHALT CONCRETE FRICTION COURSE, TRAFFIC B, FC-12.5, PG 76-22
- 2" SUPERPAVE ASPHALTIC CONCRETE, TRAFFIC B, TYPE SP-12.5
- 8" GRADED AGGREGATE BASE, LBR 100 @ 100% MODIFIED PROCTOR
- 12" STABILIZED SUBGRADE @ 98% MODIFIED PROCTOR

**MILLING & RESURFACING PAVEMENT**

- 1.5" AVERAGE DEPTH MILLING EXISTING ASPHALT PAVEMENT
- 1.5" ASPHALT CONCRETE FRICTION COURSE, TRAFFIC B, FC-12.5, PG 76-22

**CONCRETE DRIVEWAY DETAIL**



**FRANK REEDER ROAD**  
ENGINEERING DESIGN

TYPICAL SECTION

KARLE ANDERSON, P.E. No. 73720

DATE: \_\_\_\_\_

PROJECT LOCATION: FRANK REEDER ROAD

PROJECT NUMBER: PD-21-02-002

PROJECT MANAGER: KARLE ANDERSON, PE

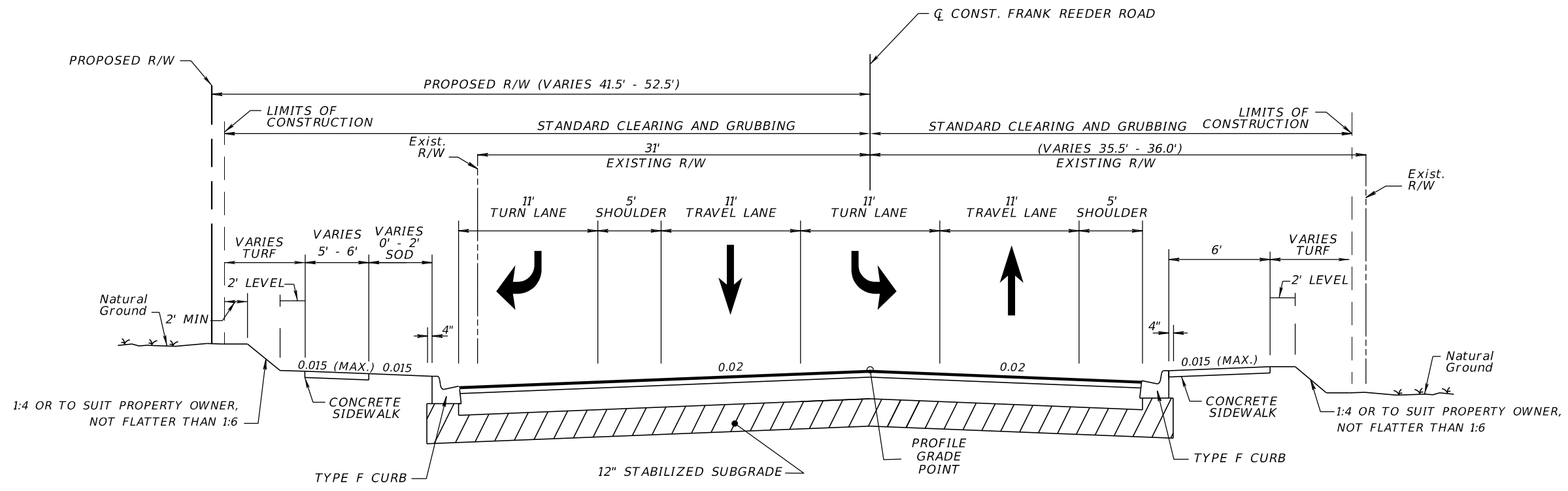
4489 WOODBINE ROAD • P.O. Box 10708 • FLORIDA 32577  
Tel 850.289.1000 • Fax 850.289.1001

DATE	APPROVAL						

SHEET 5

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PHASE	REVIEW	DATE	ORIGINATOR (OR)	CHECKER (CP)	DATE	VERIFICATION CHECKER (VC)	DATE
SIGNATURE:			ORIGINATOR (OR) Correct (Green Highlight) Change (Red Pen)			VERIFICATION CHECKER (VC) (Blue Highlight) Correct (Blue Highlight)	
			CHECKER (CP) (Red Pen X-Out to Disapprove or Remark)			REMARK INCORPORATION (Blue Highlight)	
			CHANGE INCORPORATION (Yellow Highlight)			OBSERVATION VERIFICATION Correct (Red Highlight)	
			PRODUCTION CHECKING COMPLETE, READY FOR SUBMITAL REVIEW (RP)				



STA. 75+26.17 TO STA. 78+07.77

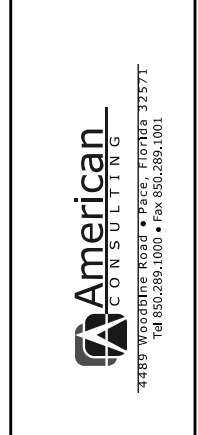
**TRAVEL LANES AND SHOULDER PAVEMENT**

- 1.5" ASPHALT CONCRETE FRICTION COURSE, TRAFFIC B, FC-12.5, PG 76-22
- 2" SUPERPAVE ASPHALTIC CONCRETE, TRAFFIC B, TYPE SP-12.5
- 8" GRADED AGGREGATE BASE, LBR 100 @ 100% MODIFIED PROCTOR
- 12" STABILIZED SUBGRADE @ 98% MODIFIED PROCTOR

**FRANK REEDER ROAD**  
ENGINEERING DESIGN  
TYPICAL SECTION

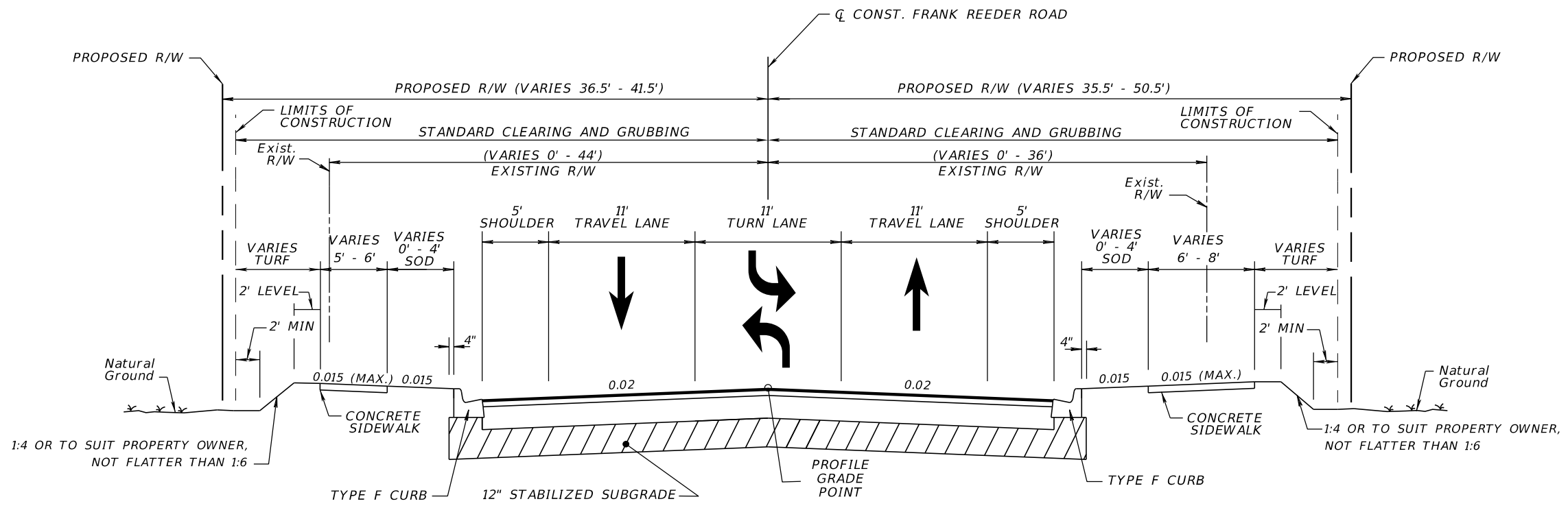


KARLE ANDERSON, P.E. No. 73720  
DATE: \_\_\_\_\_  
PROJECT LOCATION: FRANK REEDER ROAD  
PROJECT NUMBER: PD-21-23-002  
PROJECT MANAGER: KARLE ANDERSON, P.E.



NUMBER	DATE	APPROVED BY

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 PHASE: REVIEW  
 SIGNATURE:  
 ORIGINATOR (OR) DATE  
 CHECKER (CP) DATE  
 CHANGE INCORPORATION (Yellow Highlighter)  
 ORIGINATOR (OR) Correct (Green Highlighter) Change (Red Pen) DATE  
 CHECKER (CP) (Red Pen X-Out to Disapprove or Remark) DATE  
 VERIFICATION CHECKER (VC) (Blue Highlighter) DATE  
 REMARK INCORPORATION (Blue Highlighter) DATE  
 OPERATOR VERIFICATION Correct (Pink Highlighter) DATE

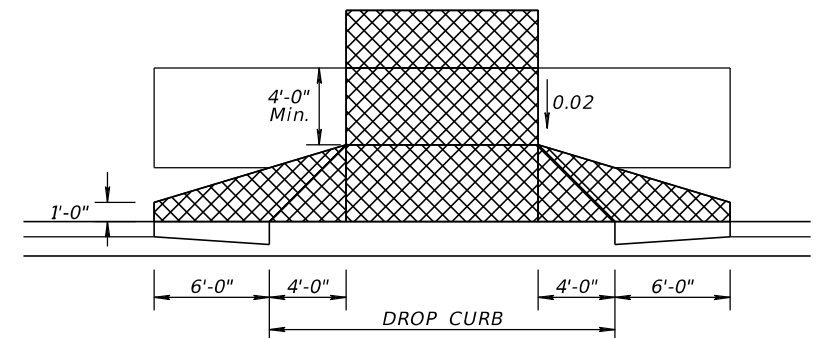


STA. 78+07.77 TO STA. 90+54.30  
 STA. 94+46.59 TO STA. 110+09.79  
 STA. 115+55.58 TO STA. 141+69.00


**TRAVEL LANES AND SHOULDER PAVEMENT**

- 1.5" ASPHALT CONCRETE FRICTION COURSE, TRAFFIC B, FC-12.5, PG 76-22
- 2" SUPERPAVE ASPHALTIC CONCRETE, TRAFFIC B, TYPE SP-12.5
- 8" GRADED AGGREGATE BASE, LBR 100 @ 100% MODIFIED PROCTOR
- 12" STABILIZED SUBGRADE @ 98% MODIFIED PROCTOR

**CONCRETE DRIVEWAY DETAIL**



**FRANK REEDER ROAD**  
 ENGINEERING DESIGN  
 TYPICAL SECTION



KARLE ANDERSON, P.E. No. 73720  
 DATE: \_\_\_\_\_  
 PROJECT LOCATION: FRANK REEDER ROAD  
 PROJECT NUMBER: PD 21-22.002  
 PROJECT MANAGER: KARLE ANDERSON, P.E.

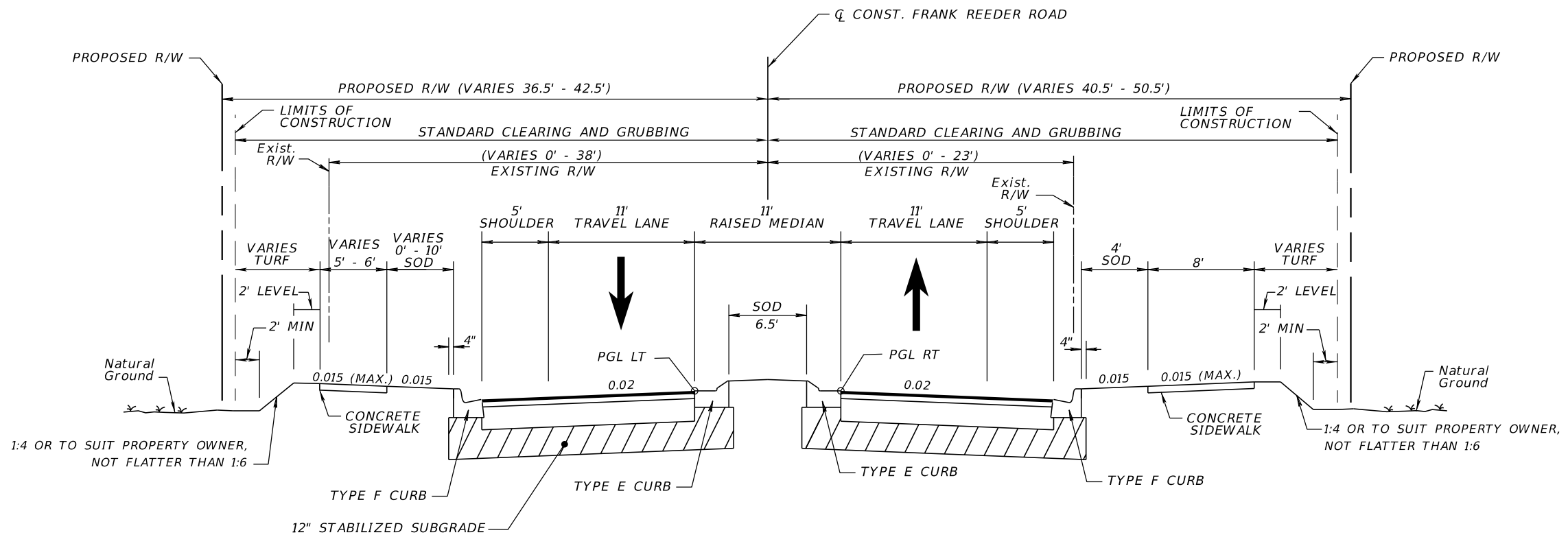
**American CONSULTING**  
 4489 WOODBINE ROAD • P.O. Box 10708 • FLORIDA 32577  
 Tel 850.289.1000 • Fax 850.289.1001

NUMBER	REVISIONS	DATE	APPROVAL

SHEET 7

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ORIGINATOR (OR)	DATE	VERIFICATION CHECKER (VC)	DATE
CHECKER (CP)	DATE	REMARK INCORPORATION (Blue Highlighter)	DATE
CHANGE INCORPORATION (Yellow Highlighter)	DATE	OPERATOR VERIFICATION (Correct (Red Highlighter))	DATE
ORIGINATOR (OR)	DATE	OPERATOR VERIFICATION (Correct (Red Highlighter))	DATE
CHECKER (CP)	DATE	OPERATOR VERIFICATION (Correct (Red Highlighter))	DATE
CHANGE INCORPORATION (Yellow Highlighter)	DATE	OPERATOR VERIFICATION (Correct (Red Highlighter))	DATE



STA. 90+54.30 TO STA. 94+46.59  
 STA. 110+09.79 TO STA. 115+55.58

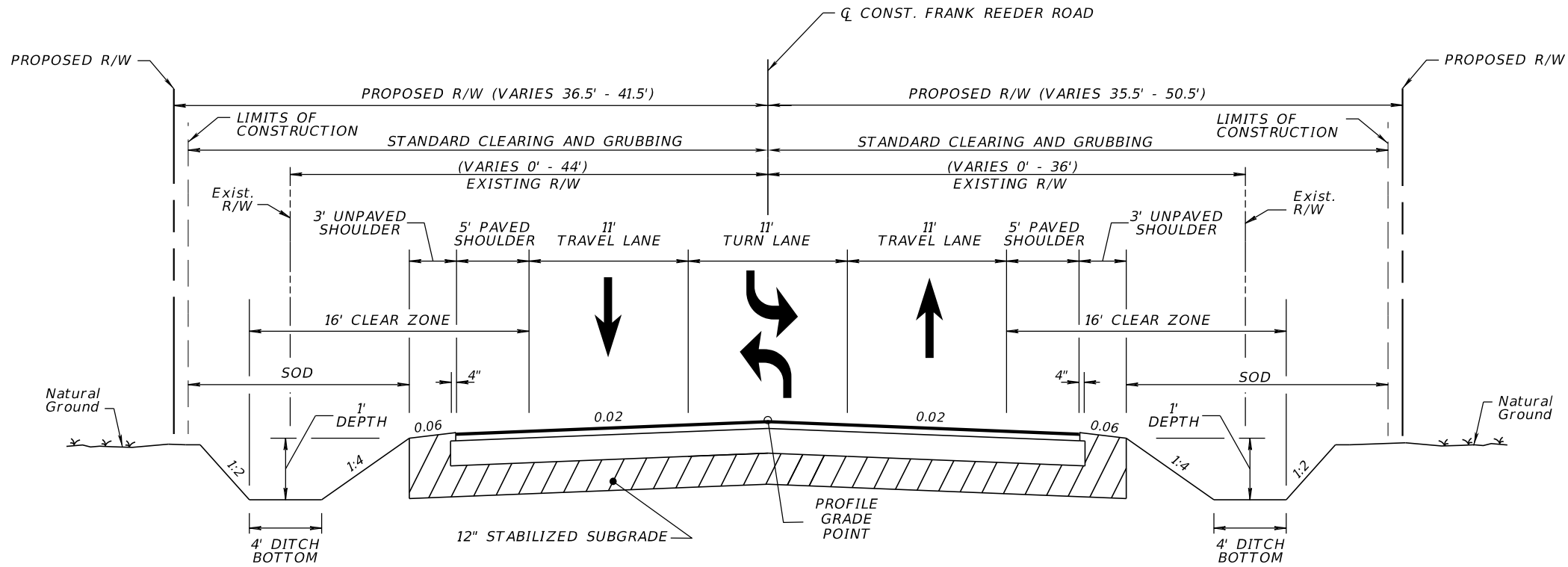
**TRAVEL LANES AND SHOULDER PAVEMENT**

- 1.5" ASPHALT CONCRETE FRICTION COURSE, TRAFFIC B, FC-12.5, PG 76-22
- 2" SUPERPAVE ASPHALTIC CONCRETE, TRAFFIC B, TYPE SP-12.5
- 8" GRADED AGGREGATE BASE, LBR 100 @ 100% MODIFIED PROCTOR
- 12" STABILIZED SUBGRADE @ 98% MODIFIED PROCTOR

<b>FRANK REEDER ROAD</b> ENGINEERING DESIGN TYPICAL SECTION	
KARLE ANDERSON, P.E. No. 73720 DATE: _____ PROJECT LOCATION: FRANK REEDER ROAD PROJECT NUMBER: PD-21-2302	PROJECT MANAGER: KARLE ANDERSON, P.E.
 4489 WOODBINE ROAD • P.O. Box 10708 • FORT WORTH, TEXAS 76177 Tel 850.289.1000 • Fax 850.289.1001	
NUMBER _____ SHEET _____ REVISIONS _____ DATE _____ APPROVED BY _____	DATE _____ APPROVED BY _____



PHASE	REVIEW	ORIGINATOR (OP)	DATE	ORIGINATOR (OR)	DATE	VERIFICATION CHECKER (VC)	DATE
SIGNATURE:		CHECKER (CP)		CHECKER (CF)		REMARK INCORPORATION	
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		PRODUCTION CHECKING COMPLETE, READY FOR SUBMITAL REVIEW (PP)		CHECKER (CP)		REMARK INCORPORATION	
				CHECKER (CF)		REMARK INCORPORATION	
				CHECKER (CP)		REMARK INCORPORATION	
				CHECKER (CF)		REMARK INCORPORATION	




STA. 141+69.00 TO STA. 146+15.56


**TRAVEL LANES AND SHOULDER PAVEMENT**

- 1.5" ASPHALT CONCRETE FRICTION COURSE, TRAFFIC B, FC-12.5, PG 76-22
- 2" SUPERPAVE ASPHALTIC CONCRETE, TRAFFIC B, TYPE SP-12.5
- 8" GRADED AGGREGATE BASE, LBR 100 @ 100% MODIFIED PROCTOR
- 12" STABILIZED SUBGRADE @ 98% MODIFIED PROCTOR

**FRANK REEDER ROAD**  
ENGINEERING DESIGN  
TYPICAL SECTION



KARLE ANDERSON, P.E. No. 73720  
DATE: \_\_\_\_\_  
PROJECT LOCATION: FRANK REEDER ROAD  
PROJECT NUMBER: PD-21-0202  
PROJECT MANAGER: KARLE ANDERSON, PE

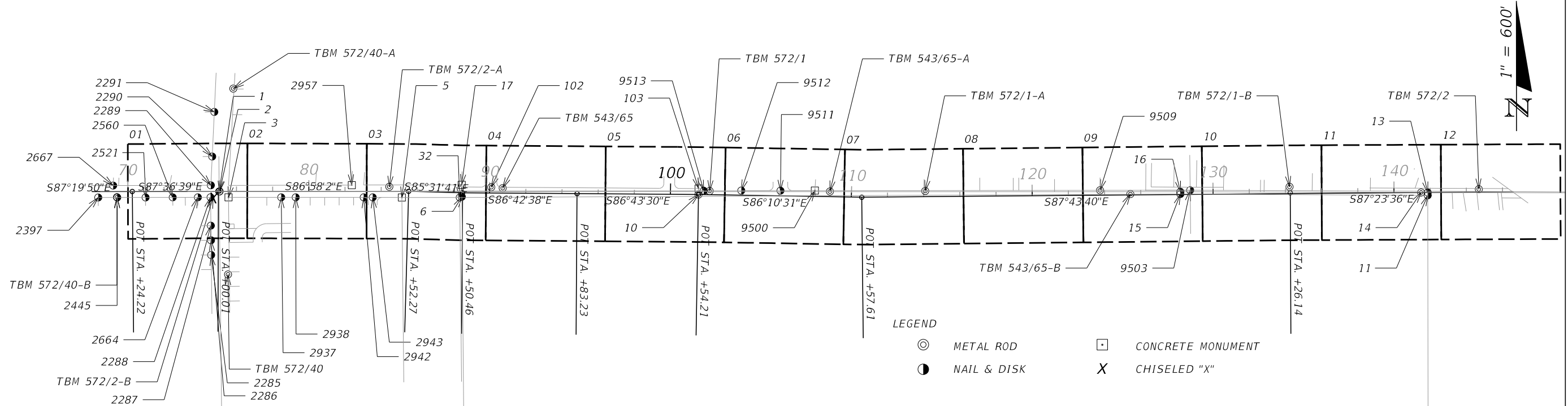


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Tel 850.289.1000 • Fax 850.289.1001

NUMBER	DATE	APPROVAL

SHEET 9

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 SIGNATURE:  
 ORIGINATOR (OR) DATE  
 CHECKER (CP) DATE  
 CHANGE INCORPORATION (View Highlighter)  
 VERIFICATION, CHECKER (VP) (Blue Highlighter) DATE  
 REMARK INCORPORATION (Blue Highlighter) DATE  
 OPERATOR VERIFICATION (Correct (View Highlighter)) DATE



BENCHMARK DATA TABLE				
POINT #	DESCRIPTION	ELEVATION	NORTHING	EASTING
2397	1/2" Capped Iron Rod	116.32	575229.04	1061263.83
2667	1/2" Capped Iron Rod (Found - #7212)	114.50	575291.28	1061349.94
TBM 572/40-B	60d Nail & County Disk	115.19	575226.85	1061367.12
2445	1/2" Capped Iron Rod	114.63	575224.02	1061368.79
2521	1/2" Capped Iron Rod	113.68	575216.48	1061525.55
2560	1/2" Capped Iron Rod (Found - #4153)	115.89	575209.30	1061675.48
2664	1/2" Capped Iron Rod	117.76	575202.48	1061814.04
2289	1/2" Capped Iron Rod (Found - #6712)	119.72	575265.21	1061889.46
2288	1/2" Capped Iron Rod	118.59	575199.27	1061884.36
2290	1/2" Capped Iron Rod	119.87	575424.31	1061904.93
2291	1/2" Iron Rod	116.45	575424.31	1061904.93
TBM 572/2-B	"X" Chiseled in North End of Headwall	119.59	575195.40	1061898.41
2287	1/2" Capped Iron Rod	117.68	575042.46	1061878.03
2286	1/2" Capped Iron Rod (Found - #3286)	117.74	574961.43	1061875.10
2285	1/2" Capped Iron Rod (Found - #3286)	118.22	574880.51	1061871.76
1	Nail & Disk (Found - FDOT)	121.00	575228.56	1061933.27
2	Nail & Disk	121.00	575229.94	1061935.40
TBM 572/40-A	Set Nail & County Disk	117.58	575793.91	1062039.62
3	4"x4" Concrete Monument w/ Brass Disk	119.98	575194.04	1061982.93
TBM 572/40	Set Nail & County Disk	120.81	574768.10	1061957.36
2937	1/2" Capped Iron Rod	125.62	575179.43	1062274.65
2938	1/2" Iron Rod	127.21	574891.31	1068889.14
2957	4"x4" Concrete Monument	142.43	575227.63	1062667.00
2942	1/2" Capped Iron Rod (Found - KJM #7107)	140.32	575156.37	1062729.92
2943	1/2" Capped Aluminum Rod (Found - KJM #7107)	142.05	575153.89	1062779.50
TBM 572/2-A	60d Nail & County Disk	145.66	574891.31	1068889.14

BENCHMARK DATA TABLE				
POINT #	DESCRIPTION	ELEVATION	NORTHING	EASTING
5	4"x4" Concrete Monumnet w/ Brass Disk (Found - KJM #7107)	146.41	575145.26	1062940.66
32	1/2" Capped Iron Rod (Found - Nichol #1035)	147.72	575129.39	1063259.84
6	1/2" Blue Capped iron Rod (Found - Thompson)	147.53	575132.61	1063271.49
17	4"x4" Concrete Monument (Found - Plain)	147.80	575198.30	1063274.12
102	Nail & Disk (Found - #7174)	147.34	575177.35	1063436.82
TBM 543/65	60d Nail & County Disk	148.41	575168.00	1063499.66
10	Nail & Disk	147.48	575177.35	1063436.82
103	4"x4" Concrete Monument (Found - #7174)	147.69	575112.02	1064581.71
9513	1/2" Iron Rod	147.30	575098.98	1064609.12
TBM 572/1	60d Nail & County Disk	148.41	575095.18	1064641.40
9512	1/2" Capped Iron Rod (Found - #7919)	147.93	575089.36	1064816.89
9511	1/2" Capped Iron Rod (Found - #7919)	146.72	575078.34	1065032.73
9500	4"x4" Concrete Monument (Found - #7919)	147.08	575069.11	1065222.41
TBM 543/65-A	60d Nail & County Disk	145.20	575058.54	1065305.40
TBM 572/1-A	60d Nail & County Disk	142.91	502542.80	985399.87
9509	Nail & Disk (Found - P.C.P. #6112)	140.55	574991.68	1066797.38
TBM 543/65-B	60d Nail & County Disk	141.62	574960.79	1066963.88
15	1/2" Capped Iron Rod (Found - #0340)	139.53	574948.95	1067240.23
16	1/2" Iron Rod	139.56	574961.09	1067240.71
9503	1/2" Capped Iron Rod (Found - #6112)	139.99	574967.22	1067294.93
TBM 572/1-B	60d Nail & County Disk	139.96	502542.80	985399.86
14	Nail & Disk (Found - PCP #7073)	135.64	574890.85	1068569.35
13	1/2" Iron Rod	135.30	574888.98	1068606.16
11	1/2" Capped Iron Rod (Found - #0340)	135.23	574873.13	1068605.36
TBM 572/2	60d Nail & County Disk	133.87	574891.31	1068889.14

**FRANK REEDER ROAD**  
ENGINEERING DESIGN  
PROJECT LAYOUT

KARLE ANDERSON, P.E. No. 7320

DATE: \_\_\_\_\_

PROJECT LOCATION: FRANK REEDER ROAD

PROJECT NUMBER: PD-21-2102

PROJECT MANAGER: KARLE ANDERSON, P.E.

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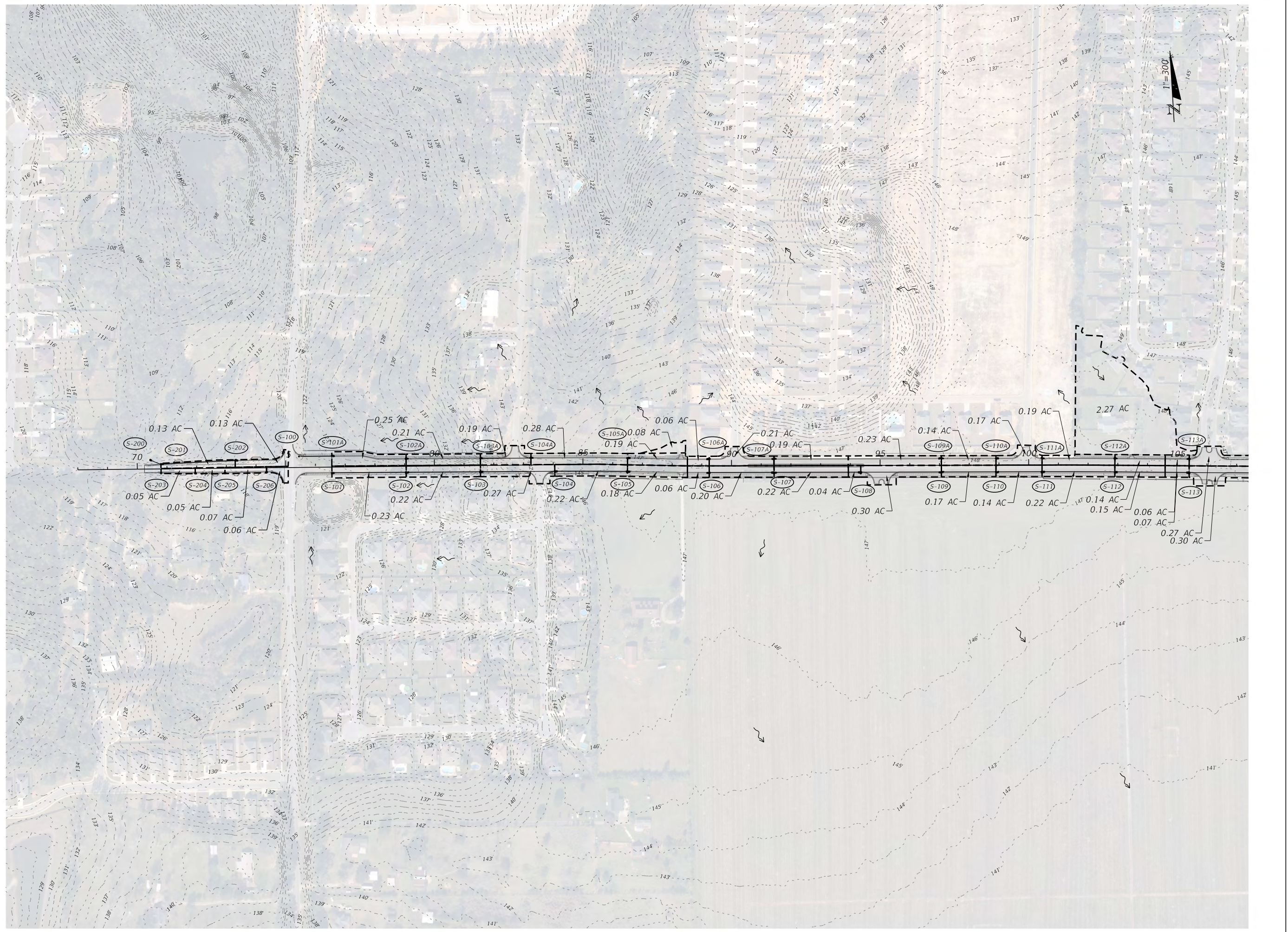
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Tallahassee, Florida 32317  
Tel 904.289.1000 • Fax 904.289.1001  
Certificate of Authorization No. 9302



NO.	REVISIONS	DATE	APPROVED BY

SHEET 10

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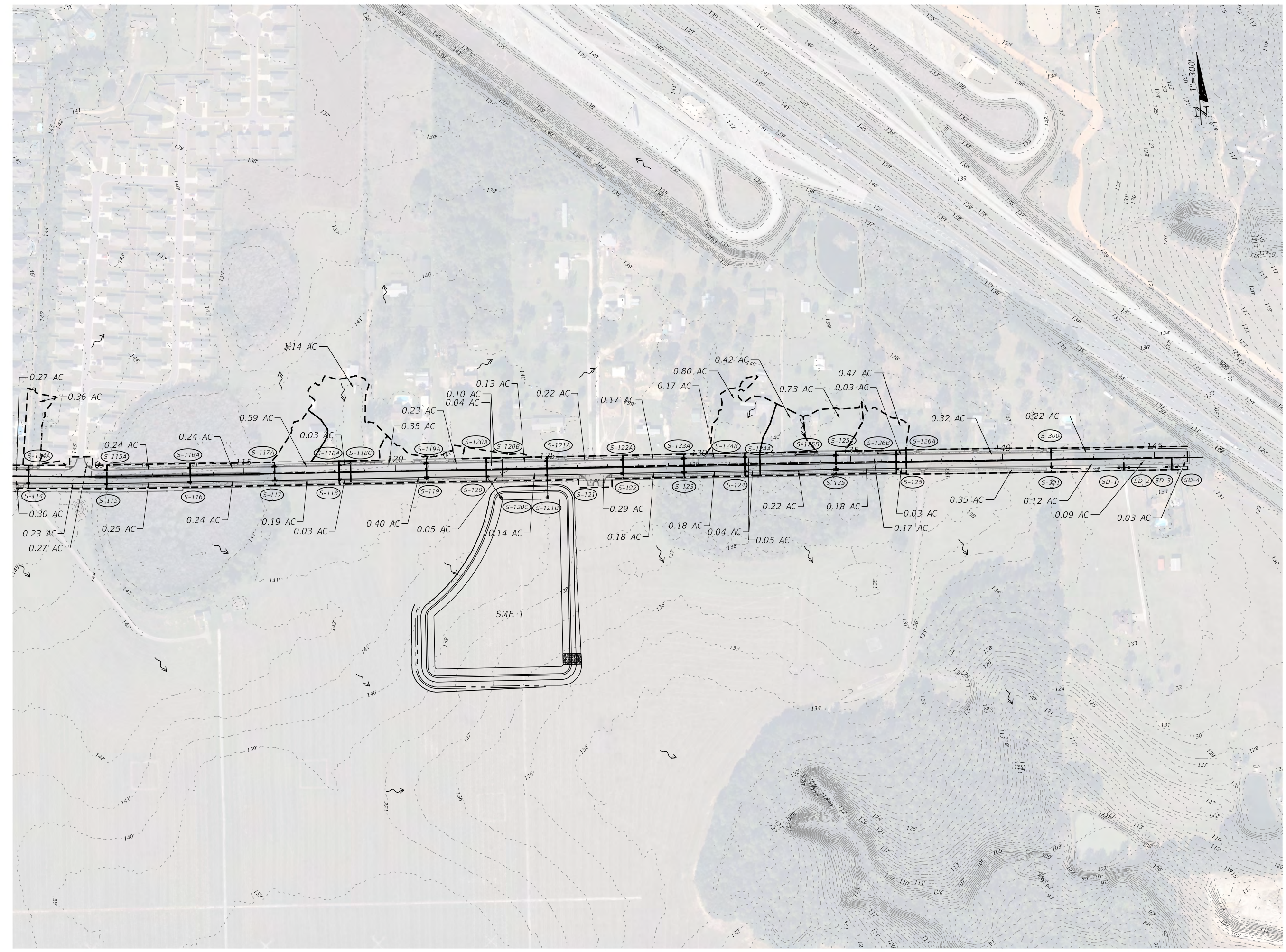
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SIGNATURE:			CHECKER (CP)	(Red Pen X-Out to Disapprove or Remark)	DATE	REMARK INCORPORATION	(Blue Highlighter)	DATE
			CHANGE INCORPORATION	(Yellow Highlighter)	DATE	OPERATOR VERIFICATION	Correct (Penc Highlighter)	DATE



	
<p align="center"><b>FRANK REEDER ROAD</b> ENGINEERING DESIGN DRAINAGE MAP (1)</p>	
PROJECT LOCATION: FRANK REEDER ROAD PROJECT NUMBER: PD 21-22-002	KARIE ANDERSON, P.E. No. 73720 DATE: PROJECT MANAGER: KARIE ANDERSON, P.E.
 <p>4489 WOODBINE ROAD • P.O. Box 37577 Tel 850.289.1000 • Fax 850.289.1001 Certificate of Authorization No. 9302</p>	
NUMBER REVISIONS	DATE APPROVAL BY
SHEET <b>11</b>	

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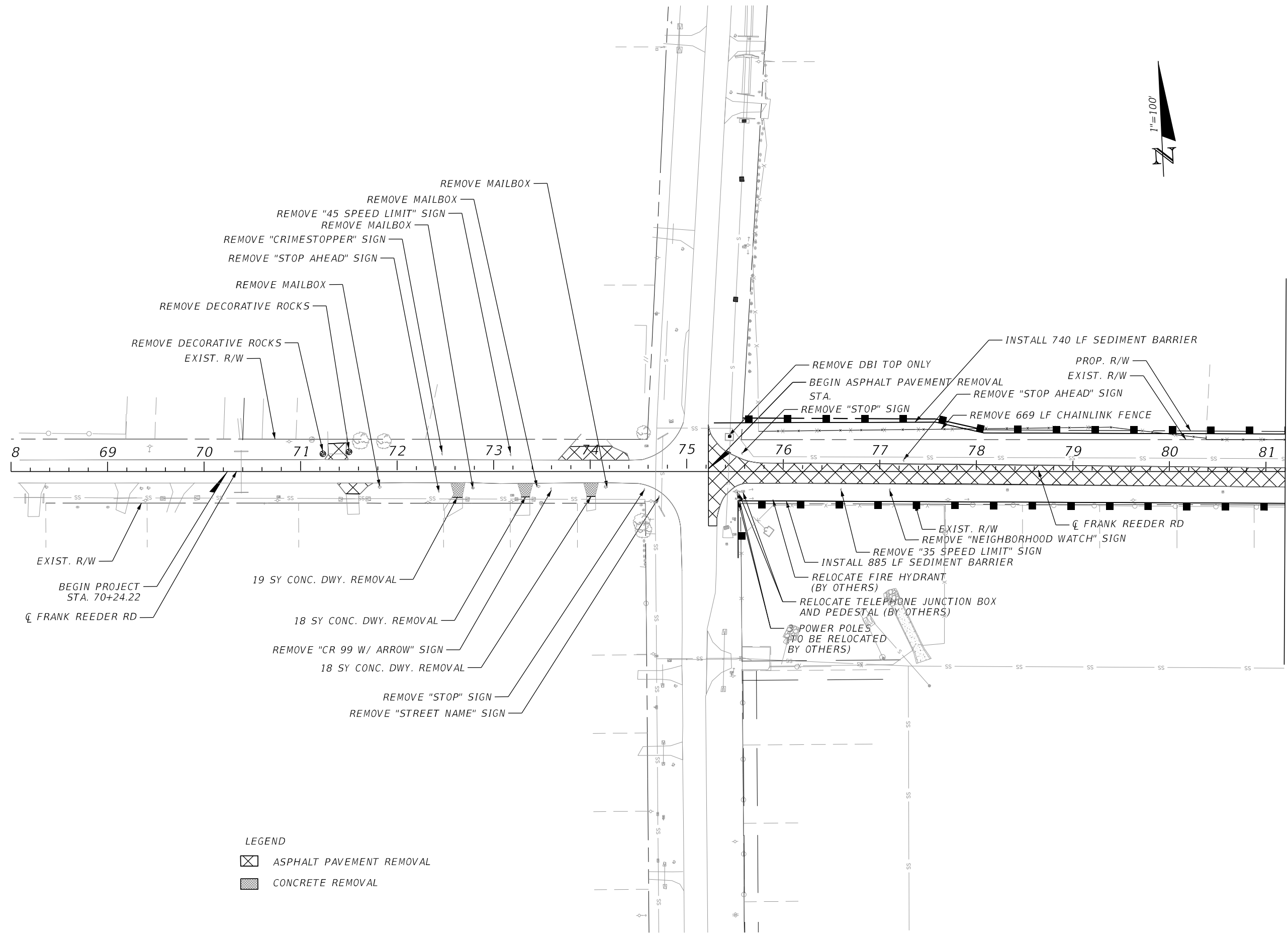
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SIGNATURE:			CHANGE INCORPORATION (Yellow Highlight)					OPERATOR VERIFICATION (Correct (Pink Highlight))	OPERATOR VERIFICATION (Correct (Pink Highlight))	



<p><b>FRANK REEDER ROAD</b> ENGINEERING DESIGN DRAINAGE MAP (2)</p>		
<p>DATE:</p>	<p>PROJECT LOCATION: FRANK REEDER ROAD</p>	<p>4489 WOODBINE ROAD • P.O. Box 37577 Tulsa, Oklahoma 74112 Tel 918.289.1000 • Fax 918.289.1001 Certificate of Authorization No. 9302</p>
<p>PROJECT NUMBER: PD-21-23-02</p>	<p>PROJECT MANAGER: KARLE ANDERSON, P.E.</p>	
<p>NUMBER</p>	<p>DATE</p>	<p>APPROVAL</p>
<p>SHEET</p>	<p>12</p>	



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SIGNATURE:			ORIGINATOR (OR)	CHECKER (CP)	DATE	VERIFICATION CHECKER (VC)	DATE
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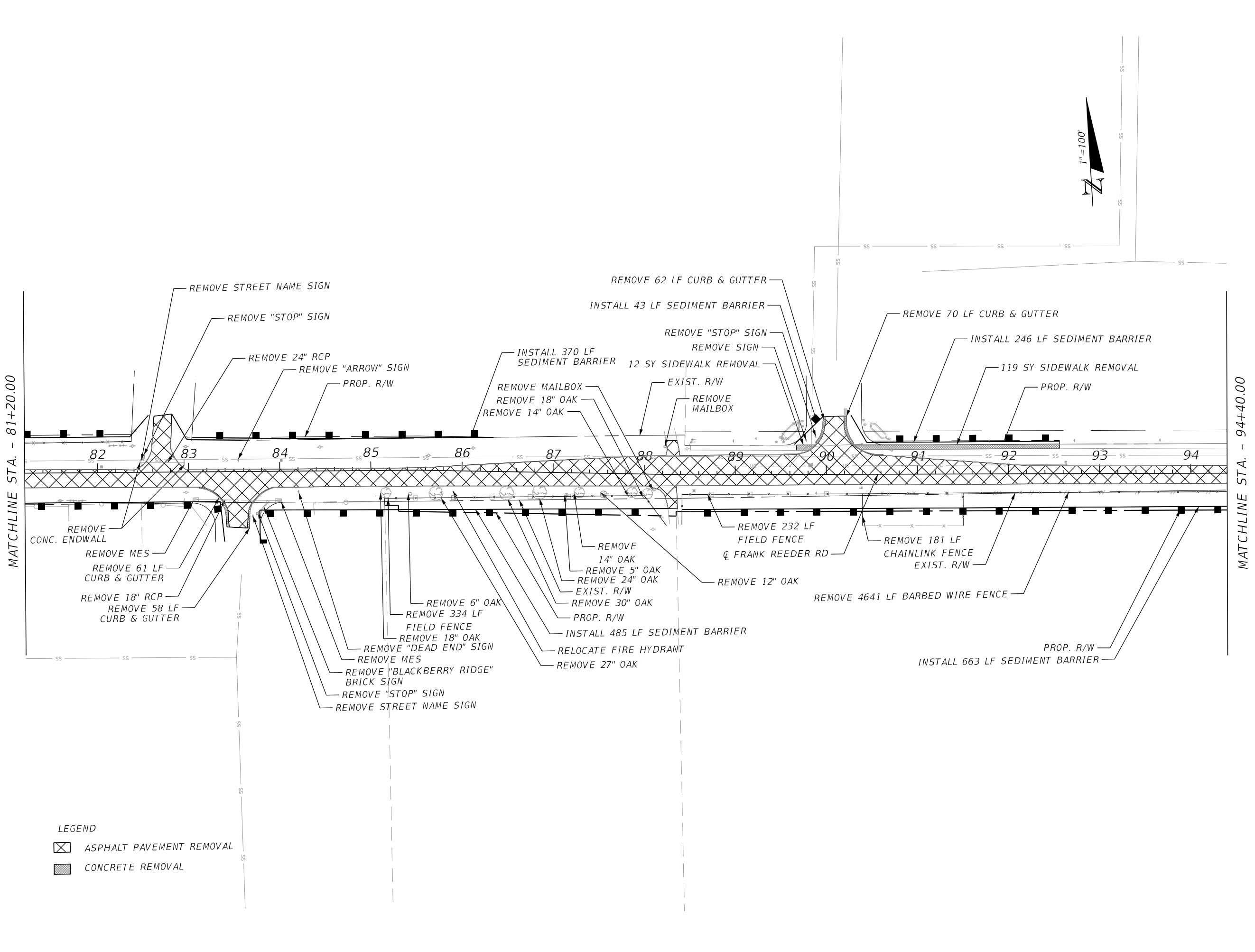
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 [X] ASPHALT PAVEMENT REMOVAL  
 [■] CONCRETE REMOVAL

MATCHLINE STA. - 81+20.00

																	
<p align="center"><b>FRANK REEDER ROAD</b> ENGINEERING DESIGN DEMOLITION PLAN</p>																	
<p>KARLE ANDERSON, P.E. No. 73720</p>	<p>DATE: _____</p>																
<p>PROJECT LOCATION: FRANK REEDER ROAD</p>	<p>PROJECT NUMBER: PD 21-22-002</p>																
<p align="center">   <b>American CONSULTING</b>        4489 WOODBINE ROAD • P.O. Box 37571        Tallahassee, Florida 32317        Tel 904.289.1000 • Fax 904.289.1001        Certificate of Authorization No. 9302     </p>																	
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NUMBER	REVISIONS	DATE	APPROVED BY														

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PHASE	REVIEW	DATE	ORIGINATOR (OR)	CHECKER (CP)	DATE	VERIFICATION CHECKER (VC)	REMARK INCORPORATION	DATE
SIGNATURE:								



**FRANK REEDER ROAD**  
ENGINEERING DESIGN  
DEMOLITION PLAN

ESCALABA COUNTY, FLORIDA

KARLE ANDERSON, P.E. No. 73720

DATE: \_\_\_\_\_

PROJECT LOCATION: FRANK REEDER ROAD

PROJECT NUMBER: PD 21-2302

PROJECT MANAGER: KARLE ANDERSON, P.E.

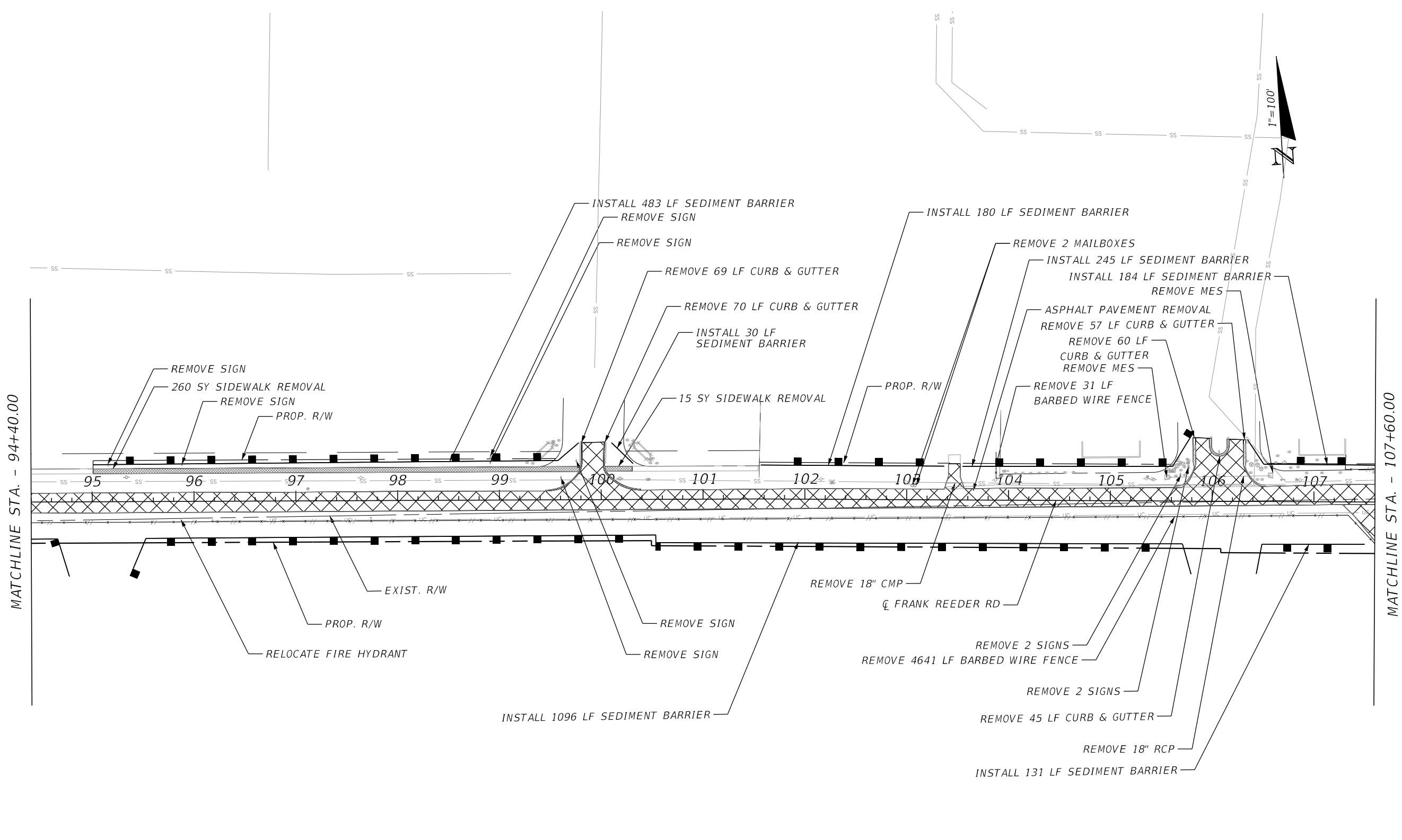
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Tel 850.289.1000 • Fax 850.289.1001  
Certificate of Authorization No. 9302

NUMBER	REVISIONS	DATE	APPROVED BY

SHEET 14

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SIGNATURE:								



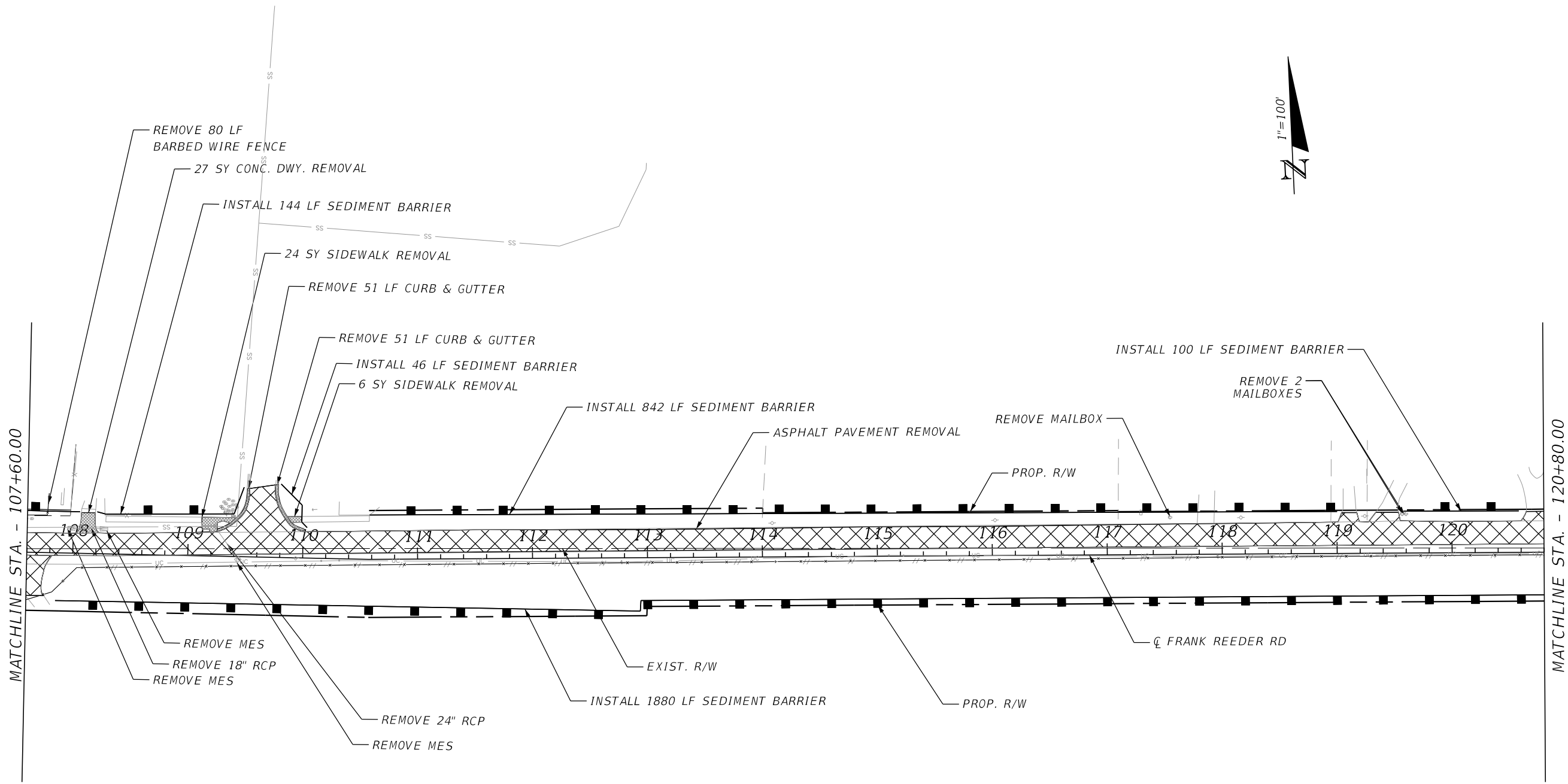
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	ASPHALT PAVEMENT REMOVAL
	CONCRETE REMOVAL

<b>FRANK REEDER ROAD</b> ENGINEERING DESIGN DEMOLITION PLAN	
PROJECT LOCATION: FRANK REEDER ROAD PROJECT NUMBER: PD 21-22-02	PROJECT MANAGER: KAREL ANDERSON, PE
KAREL ANDERSON, P.E. No. 73720 DATE:	AMERICAN CONSULTING 4489 WOODBINE ROAD • P.O. Box 10708 • Tallahassee, FL 32317 Tel 904.289.1000 • Fax 904.289.1001 Certificate of Authorization No. 9302
NUMBER SHEET	15

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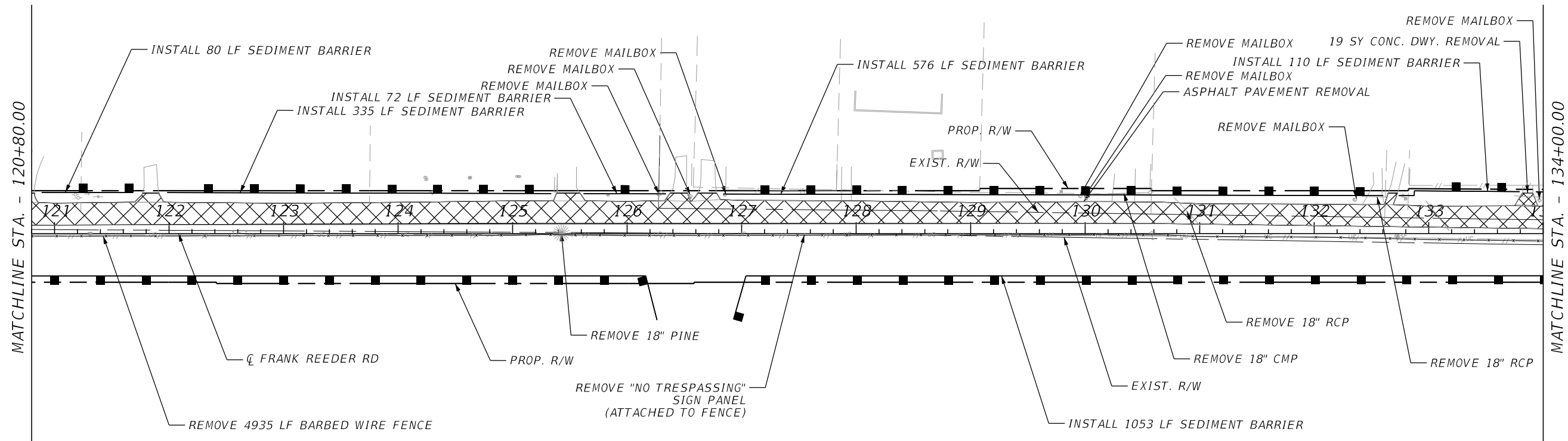
	ASPHALT PAVEMENT REMOVAL
	CONCRETE REMOVAL

<b>FRANK REEDER ROAD</b> ENGINEERING DESIGN DEMOLITION PLAN	
PROJECT LOCATION: FRANK REEDER ROAD PROJECT NUMBER: PD 21-22-02	PROJECT MANAGER: KARLE ANDERSON, PE
KARLE ANDERSON, P.E. No. 73720 DATE:	AMERICAN CONSULTING 4489 WOODBINE ROAD • P.O. Box 1000 Tallahassee, Florida 32317 Tel 904.289.1000 • Fax 904.289.1001 Certificate of Authorization No. 9302
NUMBER REVISIONS	DATE APPROVED BY
SHEET 16	



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PHASE	REVIEW	ORIGINATOR (RP)	DATE	ORIGINATOR (OR)	Correct (Green Highlighter) Change (Red Pen)	DATE	VERIFICATION CHECKER (OR)	(Blue Highlighter)	DATE
SIGNATURE:		CHECKER (RP)	DATE	CHECKER (RP)	(Red Pen X-Out to Disapprove or Remark)	DATE	REMARK INCORPORATION	(Blue Highlighter)	DATE
		PRODUCTION CHECKING COMPLETE, READY FOR SUBMITAL REVIEW (RP)	DATE	ORIGINATOR VERIFICATION	(Yellow Highlighter)	DATE	ORIGINATOR VERIFICATION	Correct (Penc Highlighter)	DATE



- LEGEND**
- ASPHALT PAVEMENT REMOVAL
  - CONCRETE REMOVAL

**FRANK REEDER ROAD**  
ENGINEERING DESIGN  
DEMOLITION PLAN

KARLE ANDERSON, P.E. No. 73720	PROJECT LOCATION: FRANK REEDER ROAD
DATE:	PROJECT NUMBER: PD 21-2302
PROJECT MANAGER: KARLE ANDERSON, PE	

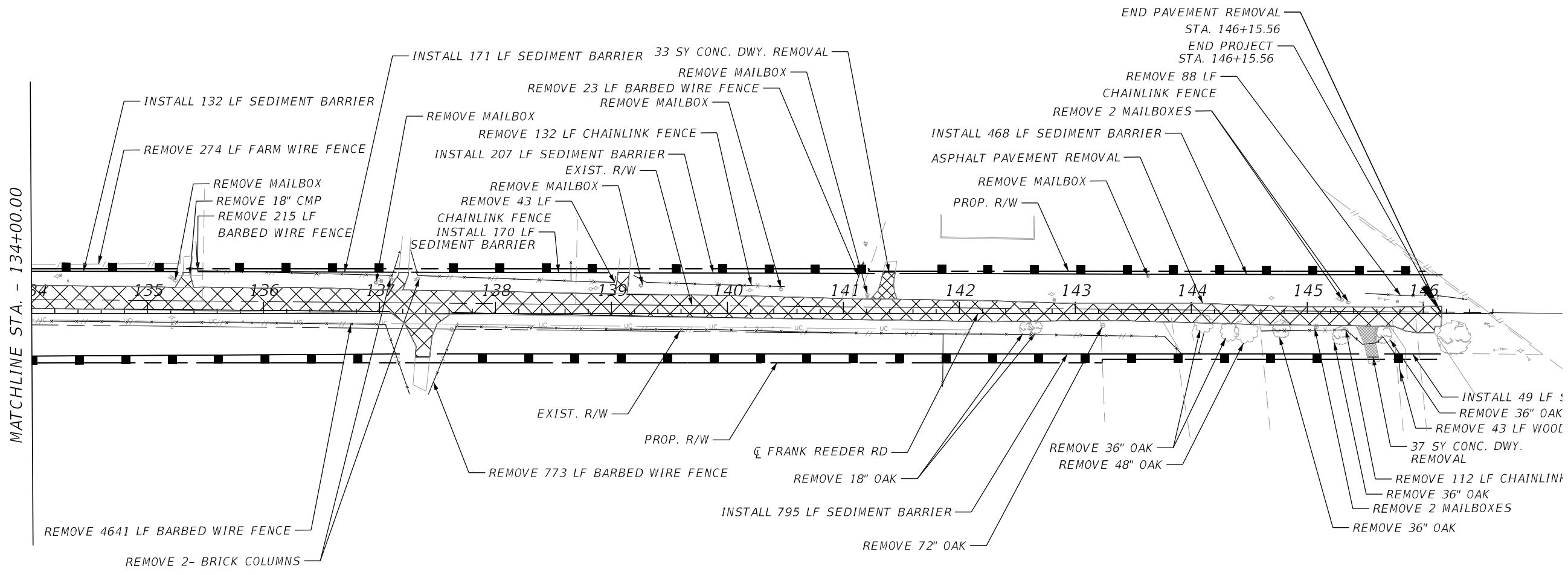
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Tel 904.289.1000 • Fax 904.289.1001  
Certificate of Authorization No. 9302

NUMBER	REVISIONS	DATE	APPROVED BY

SHEET **17**

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PHASE	REVIEW	DATE	ORIGINATOR (OR)	CHECKER (CP)	DATE	VERIFICATION CHECKER (VC)	REMARK INCORPORATION	DATE
SIGNATURE:								



**LEGEND**  
 [X] ASPHALT PAVEMENT REMOVAL  
 [■] CONCRETE REMOVAL



**FRANK REEDER ROAD**  
 ENGINEERING DESIGN  
 DEMOLITION PLAN

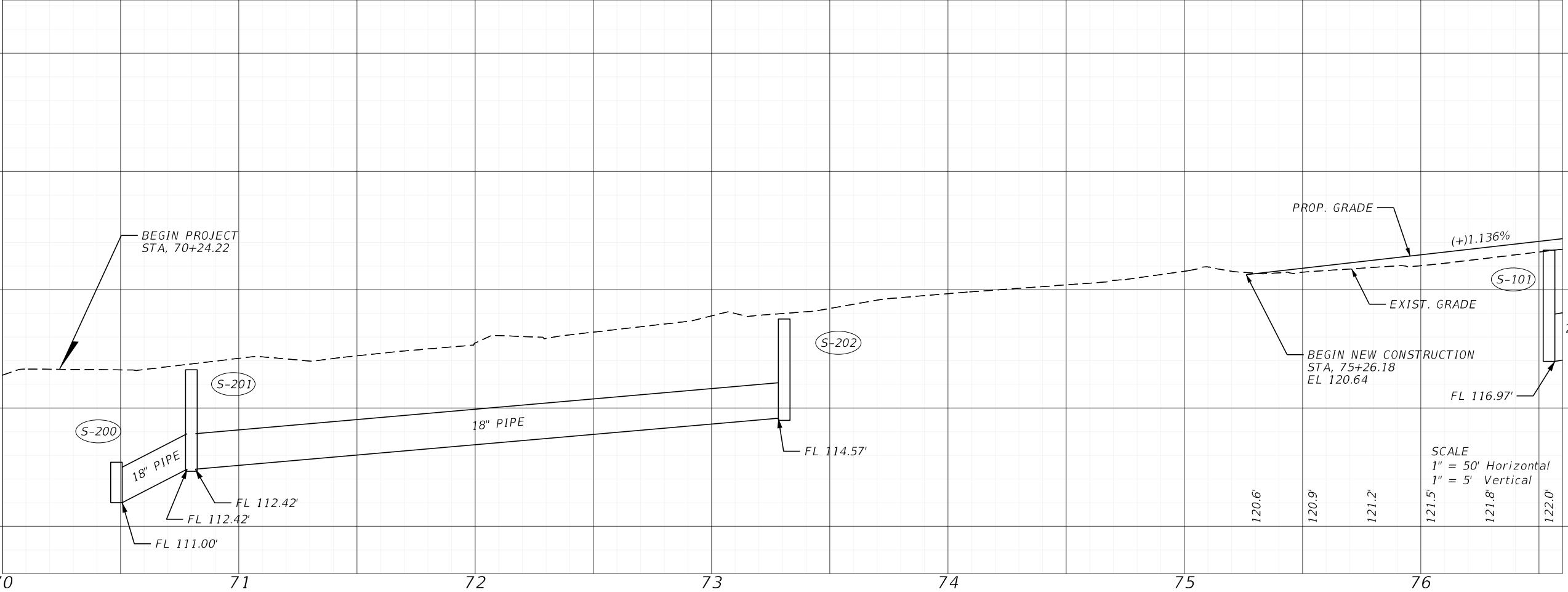
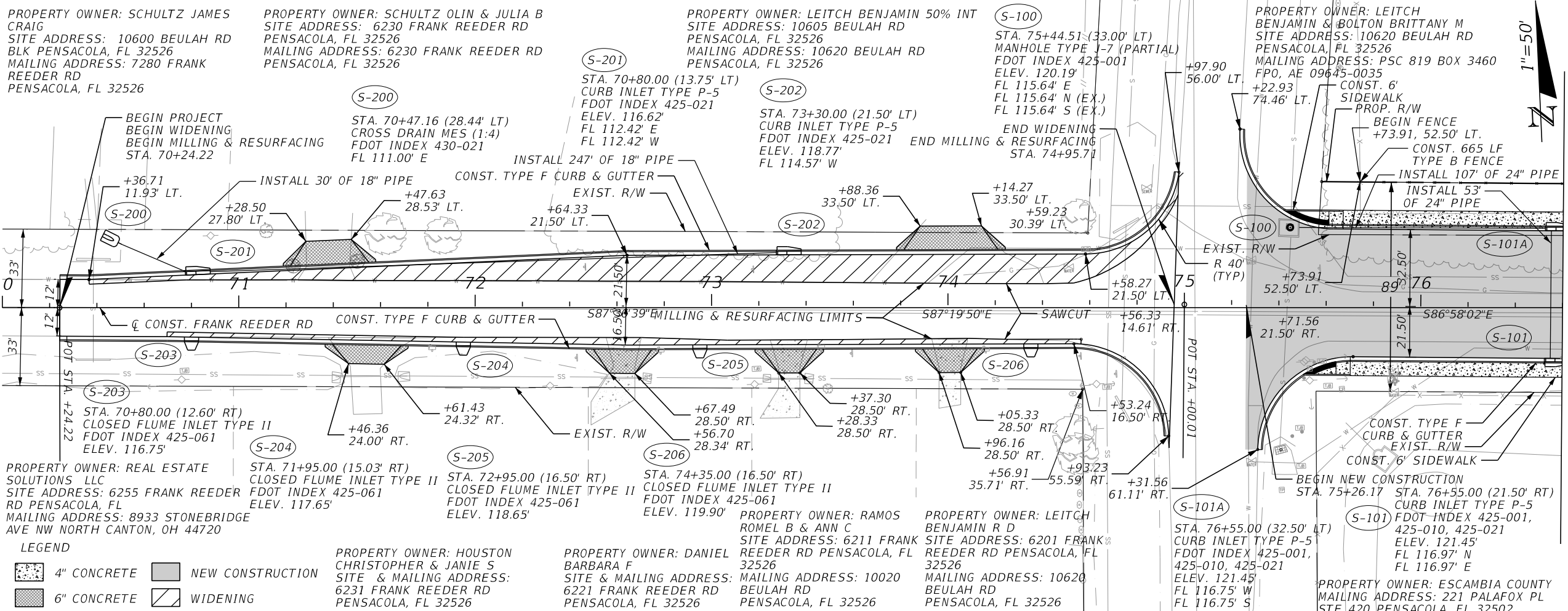


KARLE ANDERSON, P.E. No. 73720  
 DATE: \_\_\_\_\_  
 PROJECT LOCATION: FRANK REEDER ROAD  
 PROJECT NUMBER: PD 21-22-02  
 PROJECT MANAGER: KARLE ANDERSON, P.E.

**American CONSULTING**  
 4489 WOODBINE ROAD • P.O. Box 10708 • Tallahassee, Florida 32317  
 Tel 904.289.1000 • Fax 904.289.1001  
 Certificate of Authorization No. 9302

NUMBER	DATE	APPROVED BY

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 CHECKER (PP) (Red Pen X-Out to Disapprove or Remark)  
 ORIGINATOR (OR) Correct (Green Highlight) Change (Red Pen)  
 VERIFICATION CHECKER (VP) (Blue Highlighter)  
 REMARK INCORPORATION (Blue Highlighter)  
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**FRANK REEDER ROAD**  
 ENGINEERING DESIGN  
 PLAN & PROFILE

ESCAMBIA COUNTY, FLORIDA

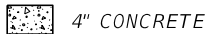
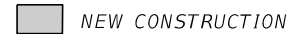
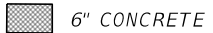
KARLE ANDERSON, P.E. No. 7320  
 DATE: \_\_\_\_\_  
 PROJECT LOCATION: FRANK REEDER ROAD  
 PROJECT NUMBER: PD-21-23-PP2  
 PROJECT MANAGER: KARLE ANDERSON, P.E.

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 Tallahassee, FL 32309 • Tel 904.289.1000 • Fax 904.289.1001  
 Certificate of Authorization No. 9302

REVISIONS	DATE	APPROVAL

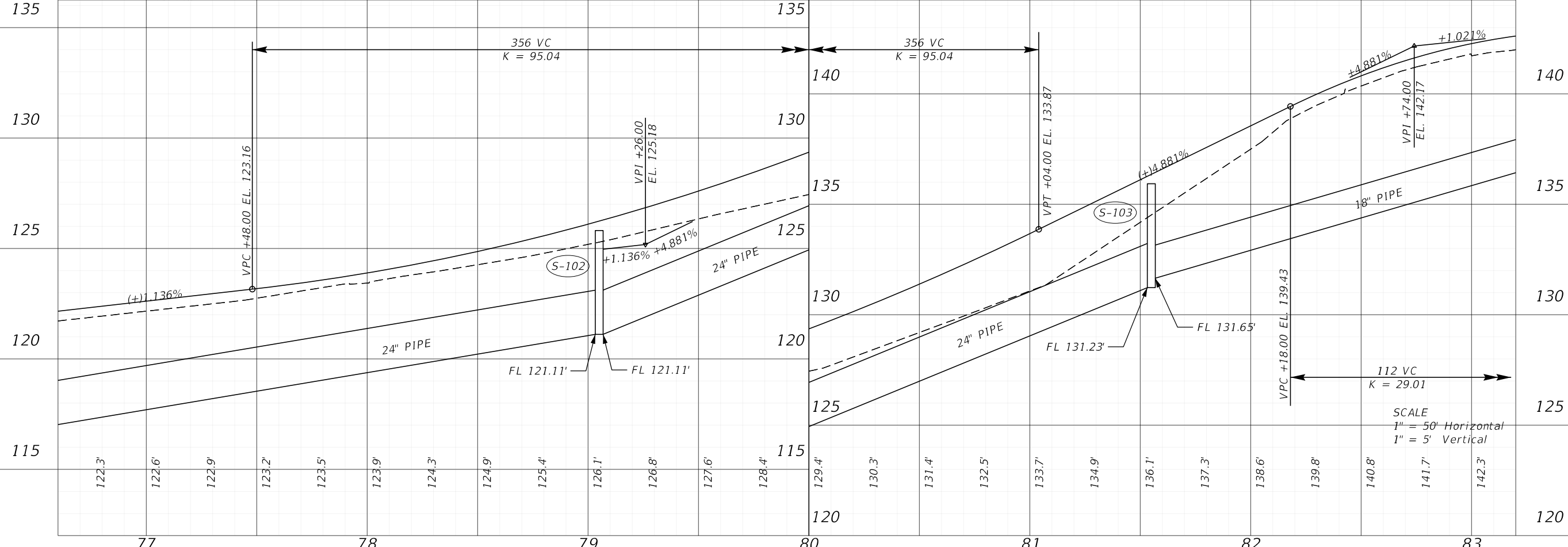
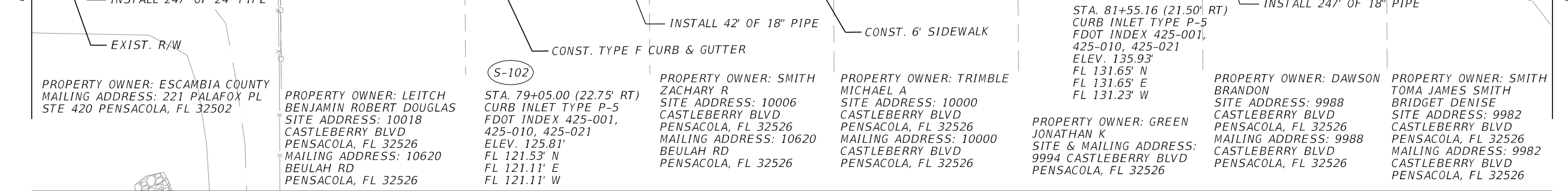
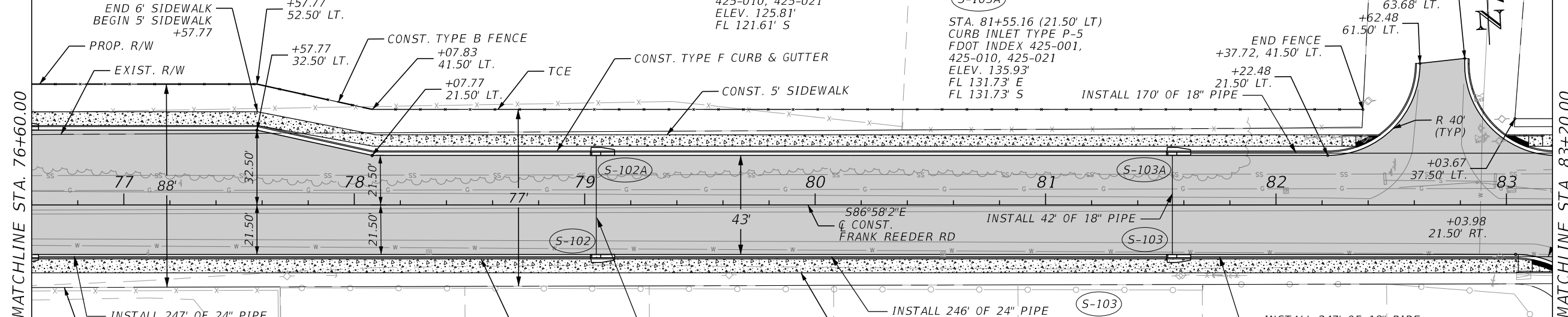
SHEET 19

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 ORIGINATOR (OR) DATE  
 CHECKER (CP) DATE  
 VERIFICATION CHECKER (VC) DATE  
 REMARK INCORPORATION (Blue Highlighter) DATE  
 OPERATOR VERIFICATION (Blue Highlighter) DATE  
 CORRECT (Green Highlighter) Change (Red Pen) DATE  
 (Red Pen X-Out to Disapprove or Remark) DATE  
 CHANGE INCORPORATION (Yellow Highlighter) DATE  
 PRODUCTION CHECKING COMPLETE, READY FOR SUBMITTAL REVIEW (RP) DATE  
 SIGNATURE:

**LEGEND**  
 4" CONCRETE  
 NEW CONSTRUCTION  
 6" CONCRETE


**PROPERTY OWNER: LEITCH BENJAMIN & BOLTON BRITTANY M**  
 SITE ADDRESS: 10620 BEULAH RD  
 PENSACOLA, FL 32526  
 MAILING ADDRESS: PSC 819 BOX 3460  
 FPO, AE 09645-0035

**PROPERTY OWNER: BARRETTO PAUL EDWIN**  
 SITE ADDRESS: 9901 JAY RD  
 PENSACOLA, FL 32526  
 MAILING ADDRESS: 127 HIGHWAY 22 E APT  
 E11 MADISONVILLE, LA 70447



SCALE  
 1" = 50' Horizontal  
 1" = 5' Vertical

**FRANK REEDER ROAD**  
 ENGINEERING DESIGN  
 PLAN & PROFILE



KARLE ANDERSON, P.E. No. 73720  
 DATE: \_\_\_\_\_  
 PROJECT LOCATION: FRANK REEDER ROAD  
 PROJECT NUMBER: \_\_\_\_\_  
 PROJECT MANAGER: KARLE ANDERSON, P.E.

American CONSULTING  
 7489 Woodbine Road • P.O. Box 1000 • Pensacola, FL 32577  
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 Certificate of Authorization No. 9302

NUMBER	REVISIONS	DATE	APPROVAL

SHEET 20

c:\pva\work\american-pa-01\065188\p065188.dwg, December 13, 2023 - 12:00:57 PM, 54906EJ  
 PHASE: REVIEW  
 SIGNATURE: \_\_\_\_\_  
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 CHECKER (RP) CHANGE INCORPORATION  
 ORIGINATOR (OR) Correct (Green Highlight) Change (Red Pen) (Red Pen X-Out to Disagree or Remark)  
 VERIFICATION CHECKER (VP) Correct (Blue Highlight) REMARK INCORPORATION (Blue Highlight) OPERATOR VERIFICATION Correct (Red Highlight)

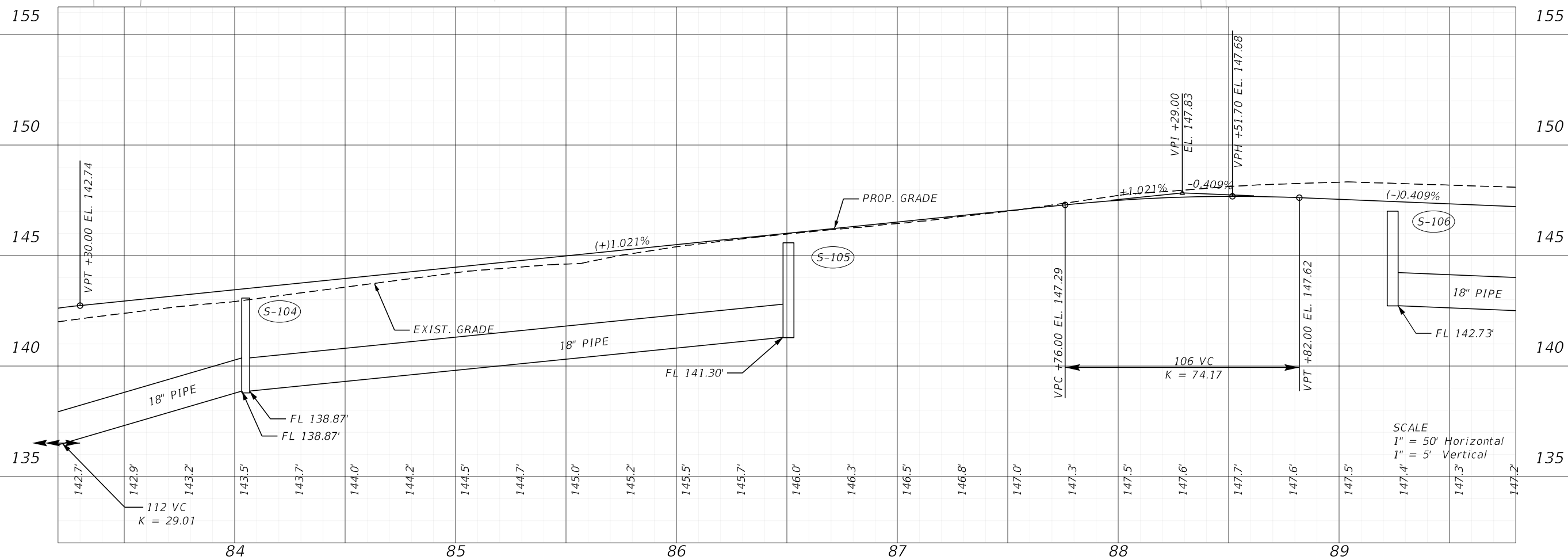
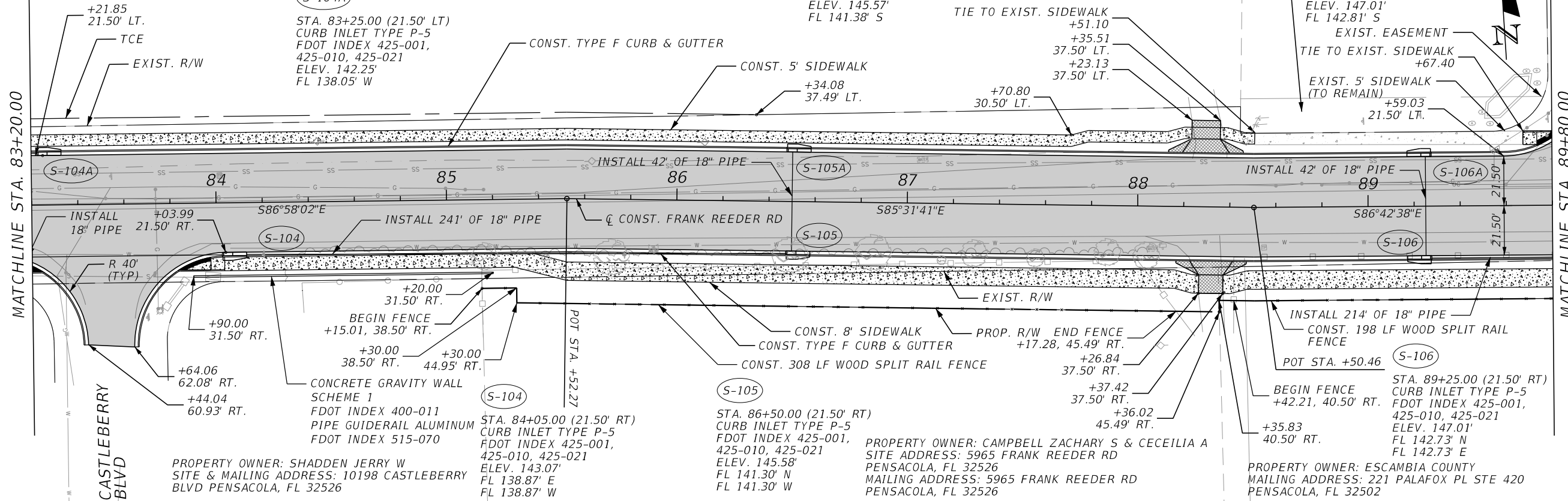
**LEGEND**  
 4" CONCRETE  
 6" CONCRETE  
 NEW CONSTRUCTION

PROPERTY OWNER: HOLLAND CHESTER C SR  
 SITE ADDRESS: 5950 FRANK REEDER RD  
 PENSACOLA, FL 32526  
 MAILING ADDRESS: 5950 FRANK REEDER RD  
 PENSACOLA, FL 32526

**S-105A**  
 STA. 86+50.00 (21.10' LT)  
 CURB INLET TYPE P-5  
 FDOT INDEX 425-001,  
 425-010, 425-021  
 ELEV. 145.57'  
 FL 141.38' S

PROPERTY OWNER: JENNINGS PLACE  
 OWNERS ASSOCIATION INC  
 SITE ADDRESS: 00000 JENNINGS PLC  
 MAILING ADDRESS: 1201 HAYS ST  
 TALLAHASSEE, FL 32301

**S-106A**  
 STA. 89+25.00 (21.50' LT)  
 CURB INLET TYPE P-5  
 FDOT INDEX 425-001,  
 425-010, 425-021  
 ELEV. 147.01'  
 FL 142.81' S



SCALE  
 1" = 50' Horizontal  
 1" = 5' Vertical

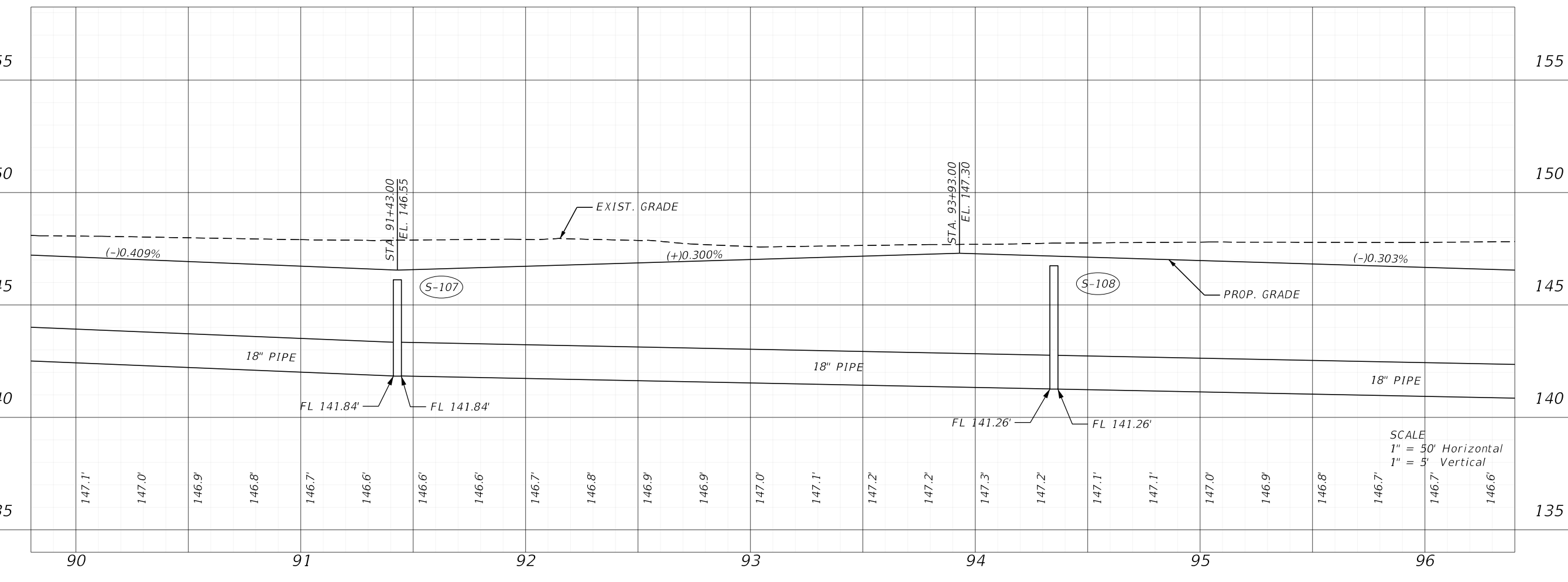
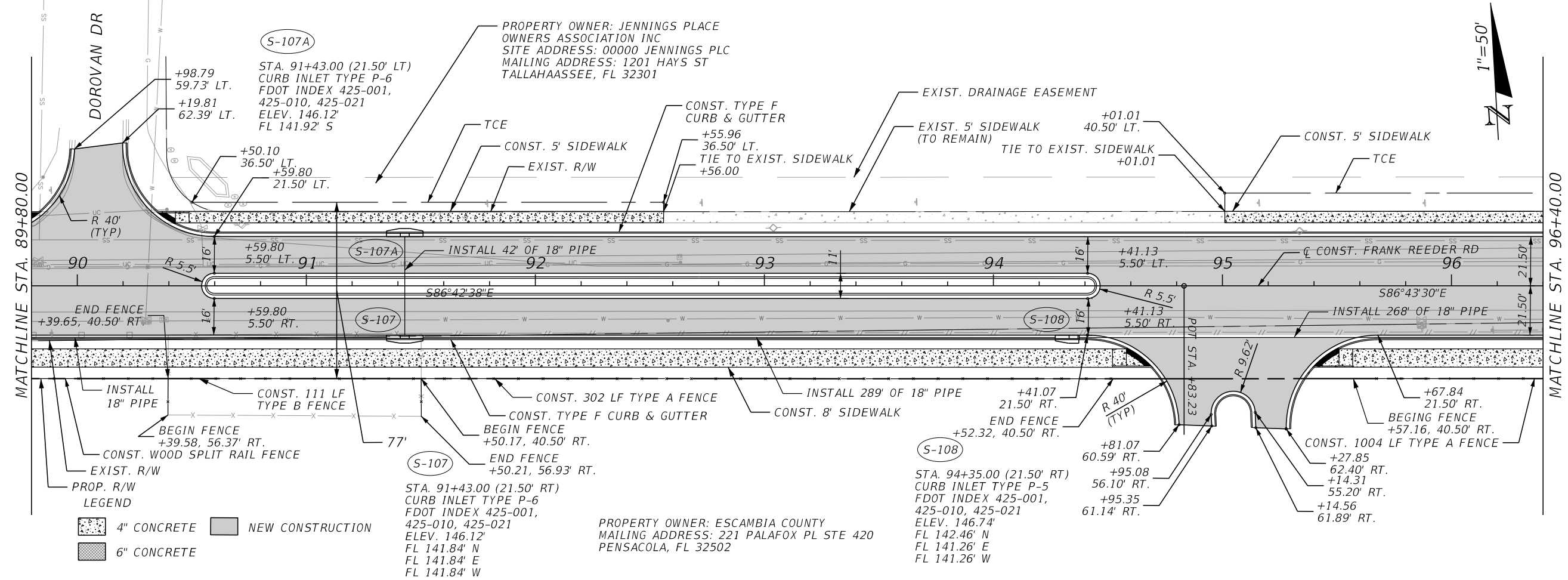
**FRANK REEDER ROAD**  
 ENGINEERING DESIGN  
 PLAN & PROFILE

KARLE ANDERSON, P.E. No. 73720  
 DATE: \_\_\_\_\_  
 PROJECT LOCATION: FRANK REEDER ROAD  
 PROJECT NUMBER: \_\_\_\_\_  
 PROJECT MANAGER: KARLE ANDERSON, P.E.  
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 Tallahassee, FL 32309 • Tel 904.289.1000 • Fax 904.289.1001  
 Certificate of Authorization No. 9302

NUMBER	REVISIONS	DATE	APPROVAL

SHEET 21

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 PHASE: REVIEW  
 SIGNATURE: \_\_\_\_\_  
 ORIGINATOR (RP) \_\_\_\_\_ DATE \_\_\_\_\_  
 CHECKER (RP) \_\_\_\_\_ DATE \_\_\_\_\_  
 OPERATOR (RP) \_\_\_\_\_ DATE \_\_\_\_\_  
 VERIFICATION CHECKER (RP) \_\_\_\_\_ DATE \_\_\_\_\_  
 REMARK INCORPORATION (Blue Highlighter) \_\_\_\_\_  
 OPERATOR VERIFICATION (Blue Highlighter) \_\_\_\_\_  
 CORRECT (Red Pen X-Out to Disappear or Remark) \_\_\_\_\_  
 CHANGE INCORPORATION (Yellow Highlighter) \_\_\_\_\_  
 PRODUCTION CHECKING COMPLETE, READY FOR SUBMITAL REVIEW (RP) \_\_\_\_\_  
 PRODUCTION CHECKING COMPLETE, READY FOR SUBMITAL REVIEW (RP) \_\_\_\_\_  
 DATE \_\_\_\_\_  
 OPERATOR (RP) \_\_\_\_\_ DATE \_\_\_\_\_  
 CHECKER (RP) \_\_\_\_\_ DATE \_\_\_\_\_  
 OPERATOR (RP) \_\_\_\_\_ DATE \_\_\_\_\_  
 VERIFICATION CHECKER (RP) \_\_\_\_\_ DATE \_\_\_\_\_  
 REMARK INCORPORATION (Blue Highlighter) \_\_\_\_\_  
 OPERATOR VERIFICATION (Blue Highlighter) \_\_\_\_\_  
 CORRECT (Red Pen X-Out to Disappear or Remark) \_\_\_\_\_  
 CHANGE INCORPORATION (Yellow Highlighter) \_\_\_\_\_



SCALE  
 1" = 50' Horizontal  
 1" = 5' Vertical

**FRANK REEDER ROAD**  
ENGINEERING DESIGN  
PLAN & PROFILE

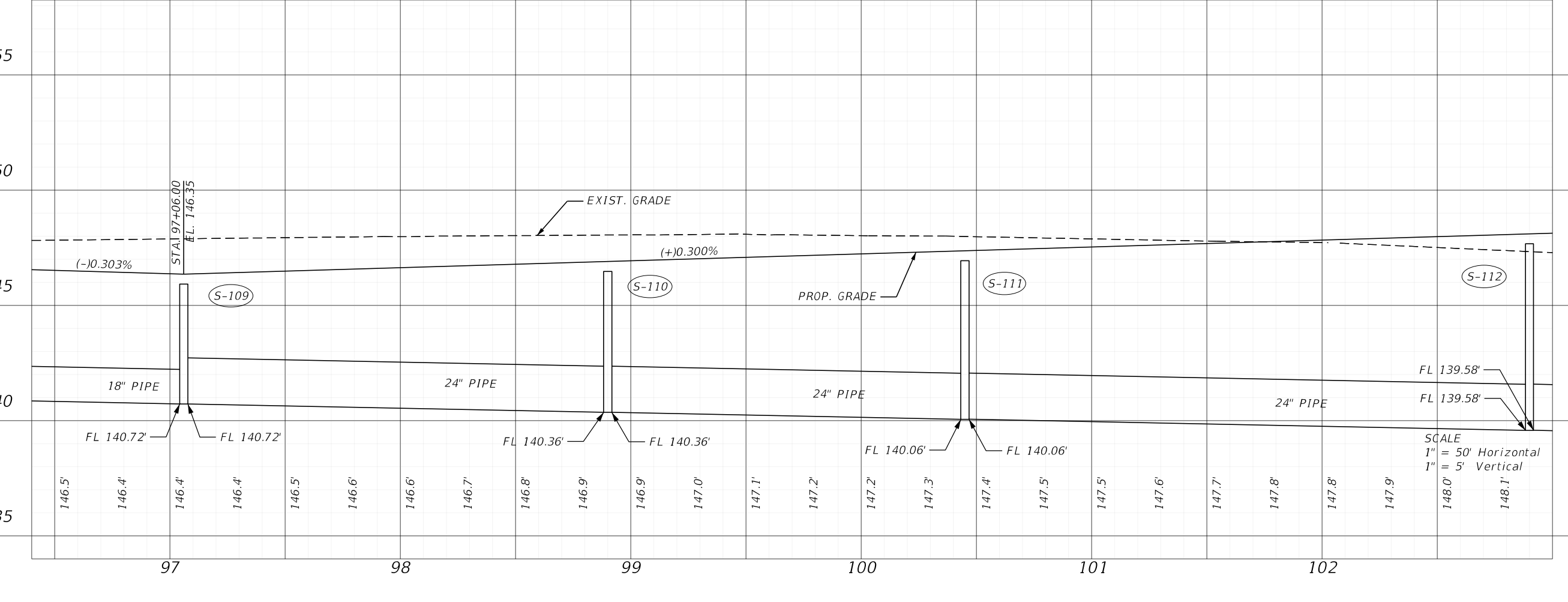
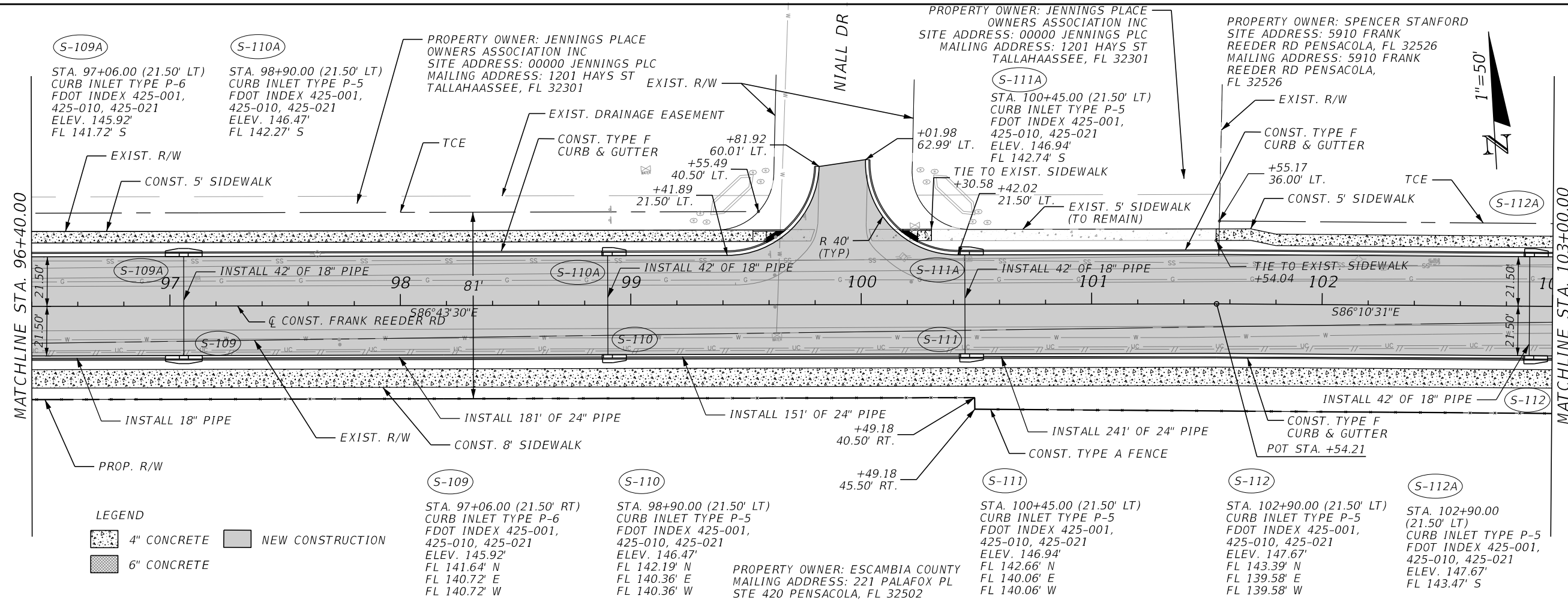
KARLE ANDERSON, P.E. No. 73720  
 DATE: \_\_\_\_\_  
 PROJECT LOCATION: FRANK REEDER ROAD  
 PROJECT NUMBER: PD-21-02092  
 PROJECT MANAGER: KARLE ANDERSON, P.E.

American CONSULTING  
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 Tel 904.289.1000 • Fax 904.289.1001  
 Certificate of Authorization No. 9302

NO.	REVISIONS	DATE	APPROVED BY

SHEET 22

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 PHASE: REVIEW  
 SIGNATURE: \_\_\_\_\_  
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 CHECKER (CP) CHANGE INCORPORATION  
 ORIGINATOR (OR) Correct (Green Highlighter) Change (Red Pen) (Red Pen X-Out to Disappear or Remark)  
 VERIFICATION CHECKER (VP) (Blue Highlighter) REMARK INCORPORATION (Blue Highlighter) OPERATOR VERIFICATION Correct (Red Highlighter)



# FRANK REEDER ROAD

## ENGINEERING DESIGN

### PLAN & PROFILE

KARLE ANDERSON, P.E. No. 73720

DATE: \_\_\_\_\_

PROJECT LOCATION: FRANK REEDER ROAD

PROJECT NUMBER: PD-21-23.P2

PROJECT MANAGER: KARLE ANDERSON, P.E.

4489 WOODBINE ROAD • P.O. Box 10706 • Pensacola, FL 32517

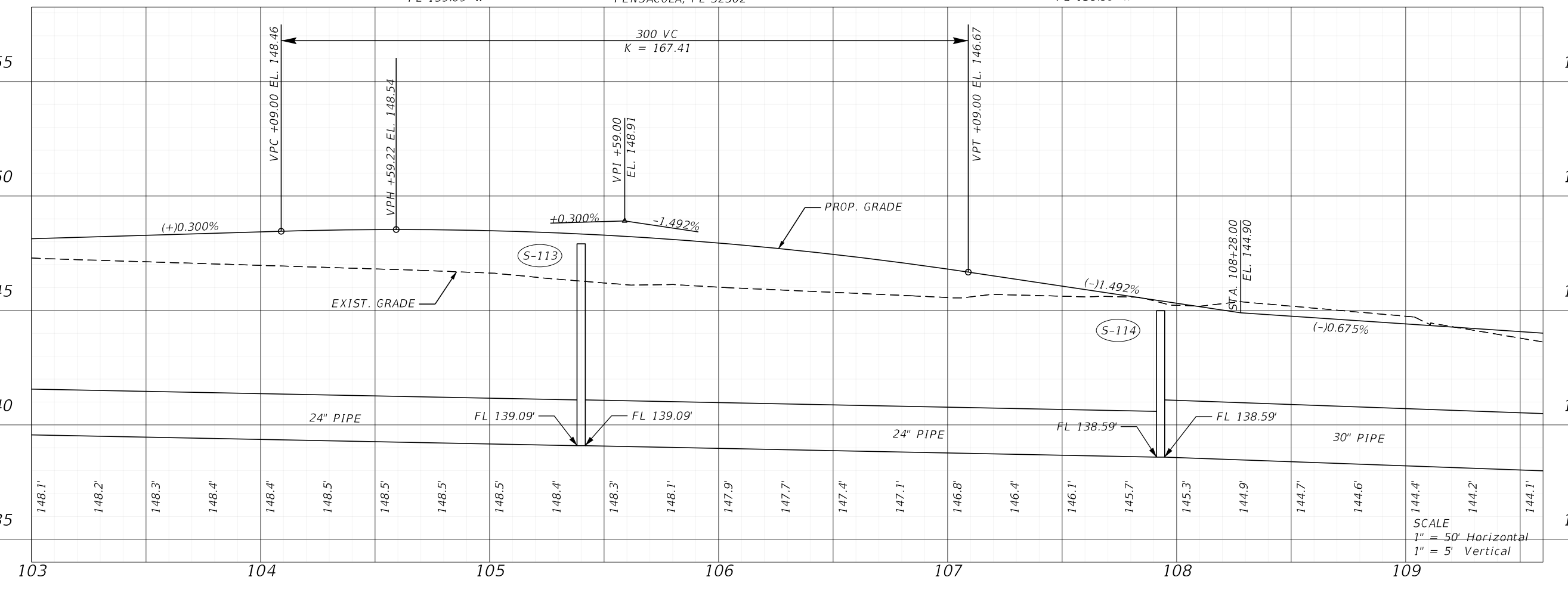
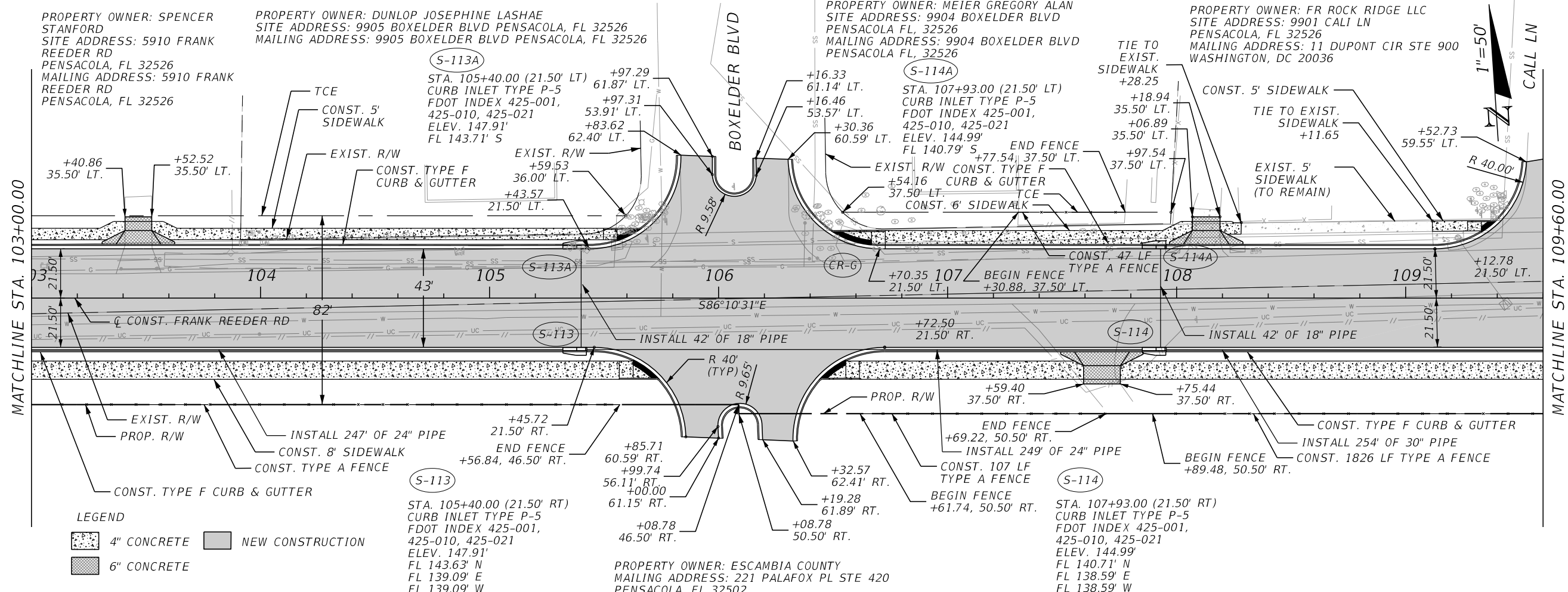
Tel 850.289.1000 • Fax 850.289.1001

Certificate of Authorization No. 9302

NUMBER	REVISIONS	DATE	APPROVED BY


SHEET 23

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 CHECKER (PP) CHANGE INCORPORATION  
 ORIGINATOR (PP) Correct (Green Highlight) Change (Red Pen) (Red Pen X-Out to Disapprove or Remark)  
 VERIFICATION CHECKER (PP) (Blue Highlighter) Correct (Blue Highlighter)  
 OPERATOR VERIFICATION  
 DATE DATE DATE  
 DATE DATE DATE




SCALE  
 1" = 50' Horizontal  
 1" = 5' Vertical

**FRANK REEDER ROAD**  
ENGINEERING DESIGN  
PLAN & PROFILE

  
 ESCAMBIA COUNTY, FLORIDA

KARLE ANDERSON, P.E. No. 7320  
 DATE: \_\_\_\_\_  
 PROJECT LOCATION: FRANK REEDER ROAD  
 PROJECT NUMBER: PD-21-23-02  
 PROJECT MANAGER: KARLE ANDERSON, P.E.

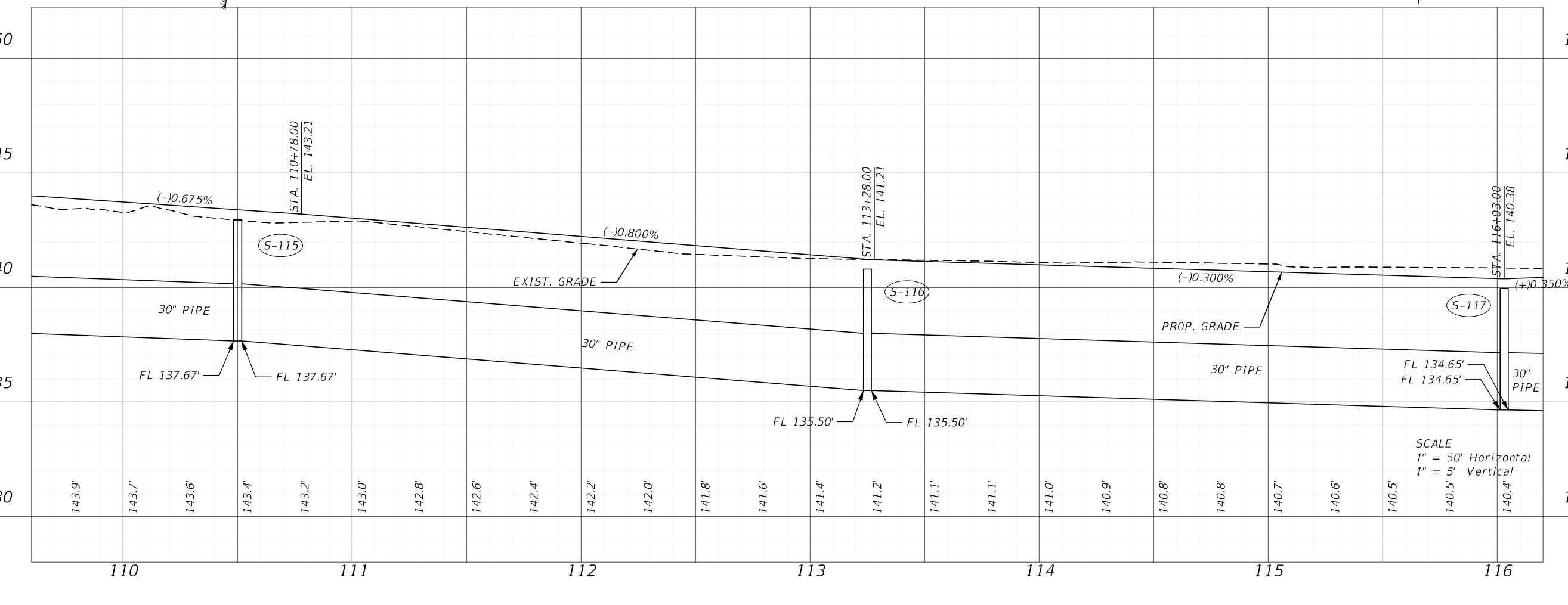
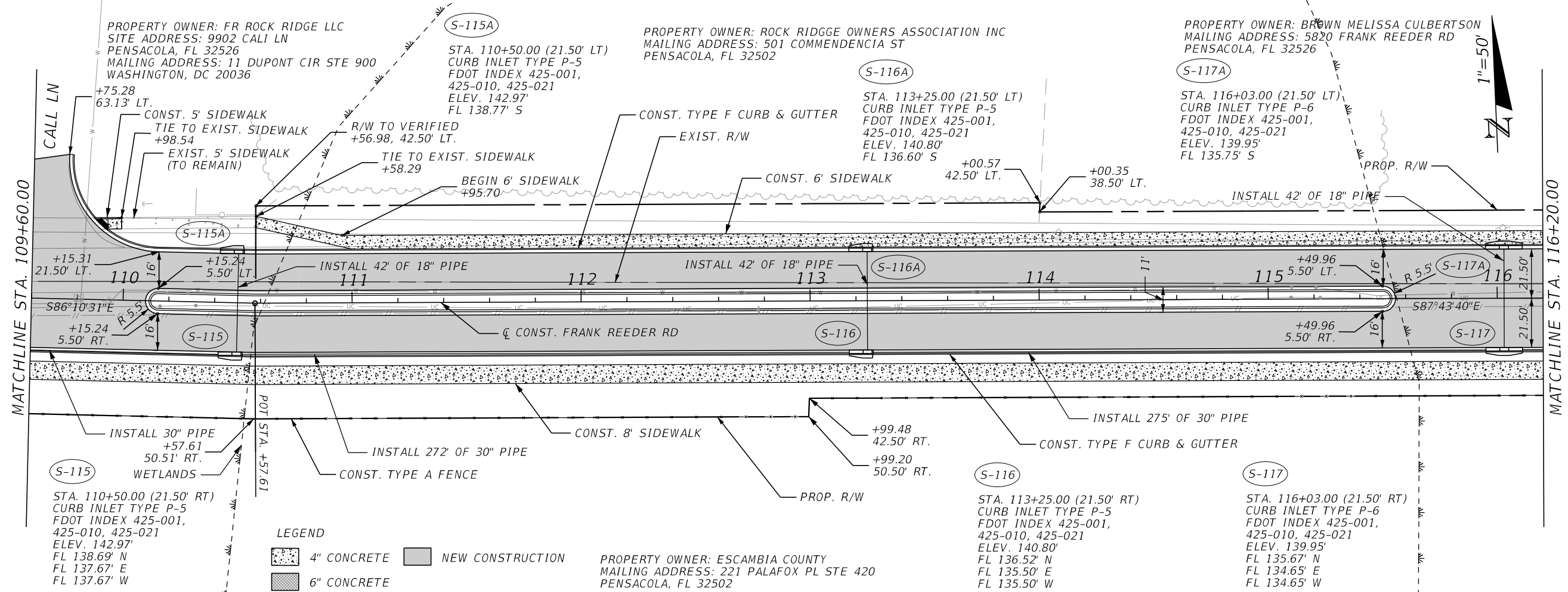
  
**American CONSULTING**  
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 Tallahassee, FL 32317 • Tel 904.289.1000 • Fax 904.289.1001  
 Certificate of Authorization No. 9302

NO.	REVISIONS	DATE	APPROVED BY

SHEET 24



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 PHASE: REVIEW  
 SIGNATURE: \_\_\_\_\_  
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 CHECKER (RP) CHANGE INCORPORATION  
 ORIGINATOR (OR) Correct (Green Highlighter) Change (Red Pen)  
 CHECKER (CP) (Red Pen X-Out to Disapprove or Remark)  
 VERIFICATION, CHECKER (CP) (Blue Highlighter)  
 REMARK INCORPORATION (Blue Highlighter)  
 OPERATOR VERIFICATION Correct (Red Highlighter)



**FRANK REEDER ROAD**  
ENGINEERING DESIGN

PLAN & PROFILE

ESCAMBIA COUNTY, FLORIDA

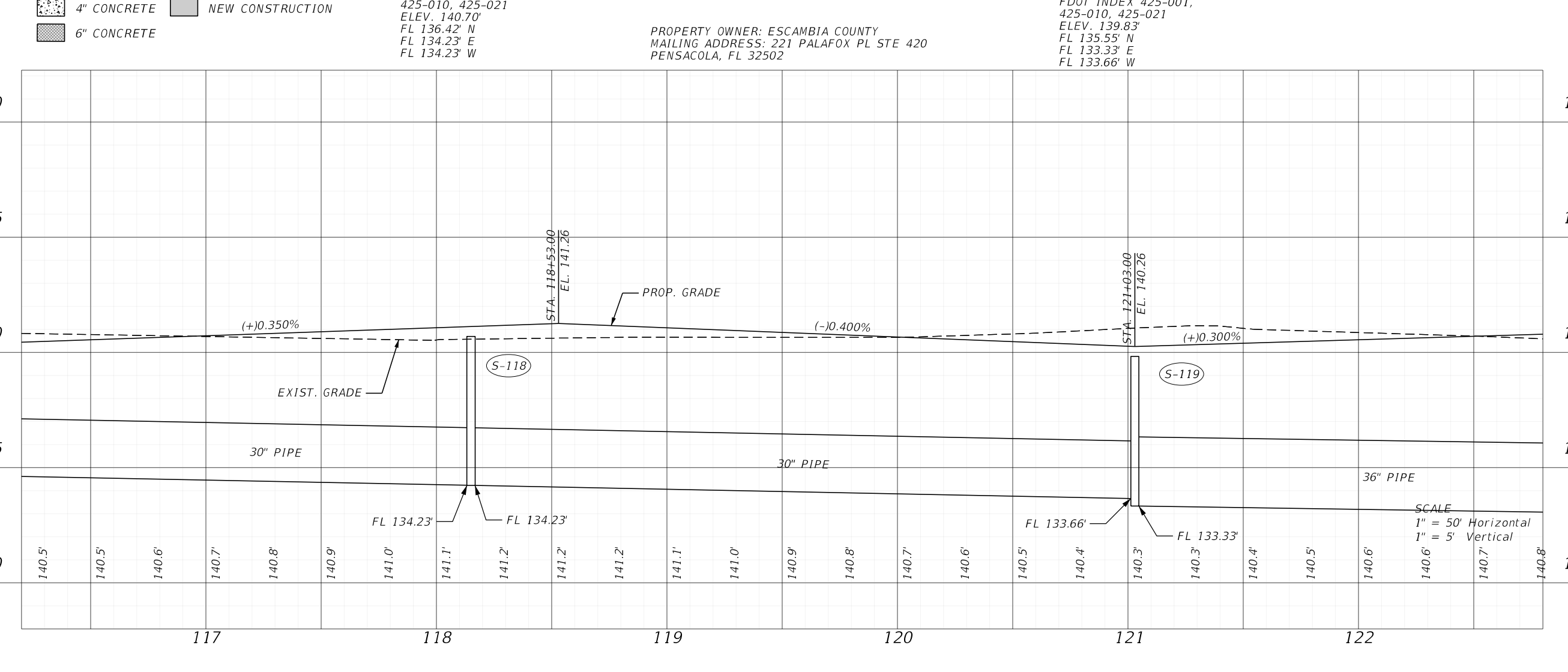
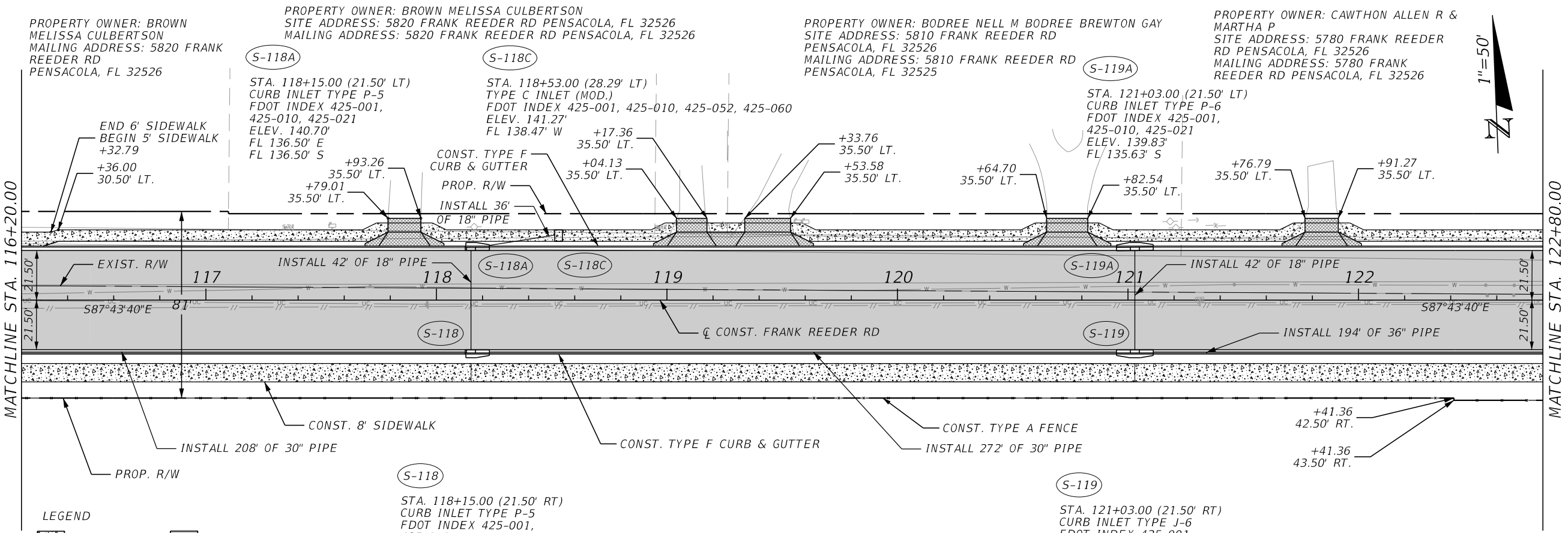
KARLE ANDERSON, P.E. No. 73720  
 DATE: \_\_\_\_\_  
 PROJECT LOCATION: FRANK REEDER ROAD  
 PROJECT NUMBER: PD-21-23-02  
 PROJECT MANAGER: KARLE ANDERSON, P.E.

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 Tel 850.289.1000 • Fax 850.289.1001  
 Certificate of Authorization No. 9302

NUMBER	REVISIONS	DATE	APPROVAL

SHEET 25

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 PHASE: REVIEW  
 SIGNATURE:  
 ORIGINATOR (OR) DATE  
 CHECKER (CP) CHANGE INCORPORATION  
 VERIFICATION CHECKER (VC) DATE  
 REMARK INCORPORATION (Blue Highlighter)  
 OPERATOR VERIFICATION Correct (Blue Highlighter)



PROPERTY OWNER: BROWN MELISSA CULBERTSON  
 SITE ADDRESS: 5820 FRANK REEDER RD PENSACOLA, FL 32526  
 MAILING ADDRESS: 5820 FRANK REEDER RD PENSACOLA, FL 32526

PROPERTY OWNER: BROWN MELISSA CULBERTSON  
 SITE ADDRESS: 5820 FRANK REEDER RD PENSACOLA, FL 32526  
 MAILING ADDRESS: 5820 FRANK REEDER RD PENSACOLA, FL 32526

PROPERTY OWNER: BODREE NELL M BODREE BREWTON GAY  
 SITE ADDRESS: 5810 FRANK REEDER RD PENSACOLA, FL 32526  
 MAILING ADDRESS: 5810 FRANK REEDER RD PENSACOLA, FL 32525

PROPERTY OWNER: CAWTHON ALLEN R & MARTHA P  
 SITE ADDRESS: 5780 FRANK REEDER RD PENSACOLA, FL 32526  
 MAILING ADDRESS: 5780 FRANK REEDER RD PENSACOLA, FL 32526

LEGEND

- 4" CONCRETE
- 6" CONCRETE
- NEW CONSTRUCTION

STA. 118+15.00 (21.50' RT)  
 CURB INLET TYPE P-5  
 FDOT INDEX 425-001,  
 425-010, 425-021  
 ELEV. 140.70'  
 FL 136.42' N  
 FL 134.23' E  
 FL 134.23' W

PROPERTY OWNER: ESCAMBIA COUNTY  
 MAILING ADDRESS: 221 PALAFOX PL STE 420  
 PENSACOLA, FL 32502

STA. 121+03.00 (21.50' RT)  
 CURB INLET TYPE J-6  
 FDOT INDEX 425-001,  
 425-010, 425-021  
 ELEV. 139.83'  
 FL 135.55' N  
 FL 133.33' E  
 FL 133.66' W

**FRANK REEDER ROAD**  
 ENGINEERING DESIGN  
**PLAN & PROFILE**



KARLE ANDERSON, P.E. No. 73720  
 DATE:  
 PROJECT LOCATION:  
 FRANK REEDER ROAD  
 PROJECT NUMBER:  
 PD-21-23-02  
 PROJECT MANAGER:  
 KARLE ANDERSON, P.E.

**American CONSULTING**  
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 Tel 850.289.1000 • Fax 850.289.1001  
 Certificate of Authorization No. 9302

NO.	DATE	APPROVAL

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 CHECKER (PP) \_\_\_\_\_ DATE \_\_\_\_\_  
 ORIGINATOR (OR) \_\_\_\_\_ DATE \_\_\_\_\_  
 CORRECT (OR) \_\_\_\_\_ DATE \_\_\_\_\_  
 CORRECT (OR) \_\_\_\_\_ DATE \_\_\_\_\_  
 VERIFICATION (VP) \_\_\_\_\_ DATE \_\_\_\_\_  
 OPERATOR VERIFICATION (VP) \_\_\_\_\_ DATE \_\_\_\_\_  
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 OPERATOR VERIFICATION (VP) \_\_\_\_\_ DATE \_\_\_\_\_

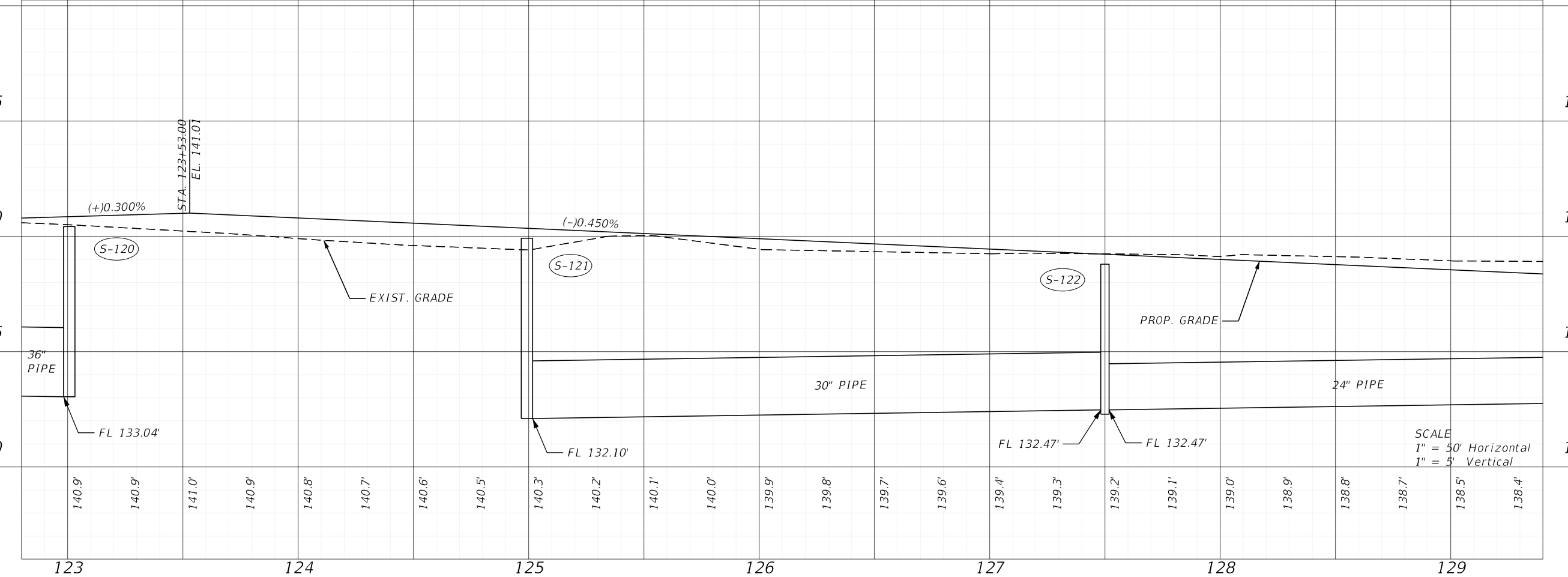
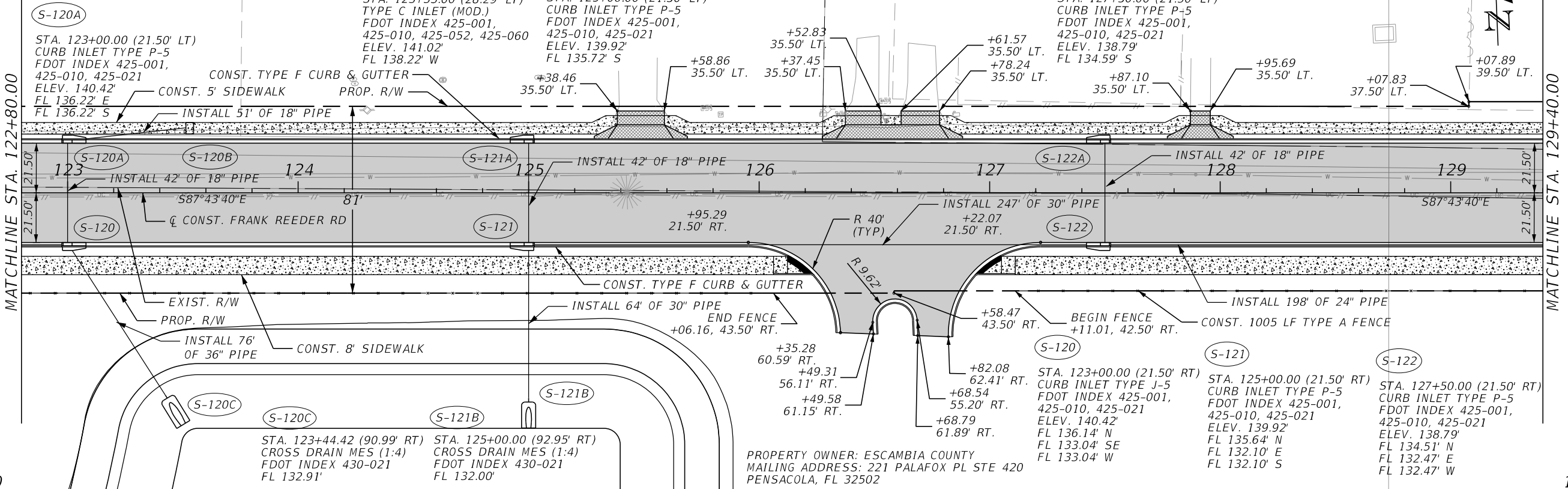
PROPERTY OWNER: CAWTHON ALLEN R & MARTHA P  
 SITE ADDRESS: 5780 FRANK REEDER RD PENSACOLA, FL 32526  
 MAILING ADDRESS: 5780 FRANK REEDER RD PENSACOLA, FL 32526

**LEGEND**  
 4" CONCRETE  
 6" CONCRETE  
 NEW CONSTRUCTION

PROPERTY OWNER: JORDAN ROBERT L  
 SITE ADDRESS: 5750 FRANK REEDER RD PENSACOLA, FL 32526  
 MAILING ADDRESS: 5750 FRANK REEDER RD PENSACOLA, FL 32526

PROPERTY OWNER: DANIEL JOHNNY D  
 SITE ADDRESS: 5706 FRANK REEDER RD PENSACOLA, FL 32526  
 MAILING ADDRESS: 5706 FRANK REEDER RD PENSACOLA, FL 32526

PROPERTY OWNER: WALKER GARY L  
 SITE ADDRESS: 5700 FRANK REEDER RD PENSACOLA, FL 32526  
 MAILING ADDRESS: 5660 FRANK REEDER RD PENSACOLA, FL 32526



**FRANK REEDER ROAD**  
 ENGINEERING DESIGN  
 PLAN & PROFILE

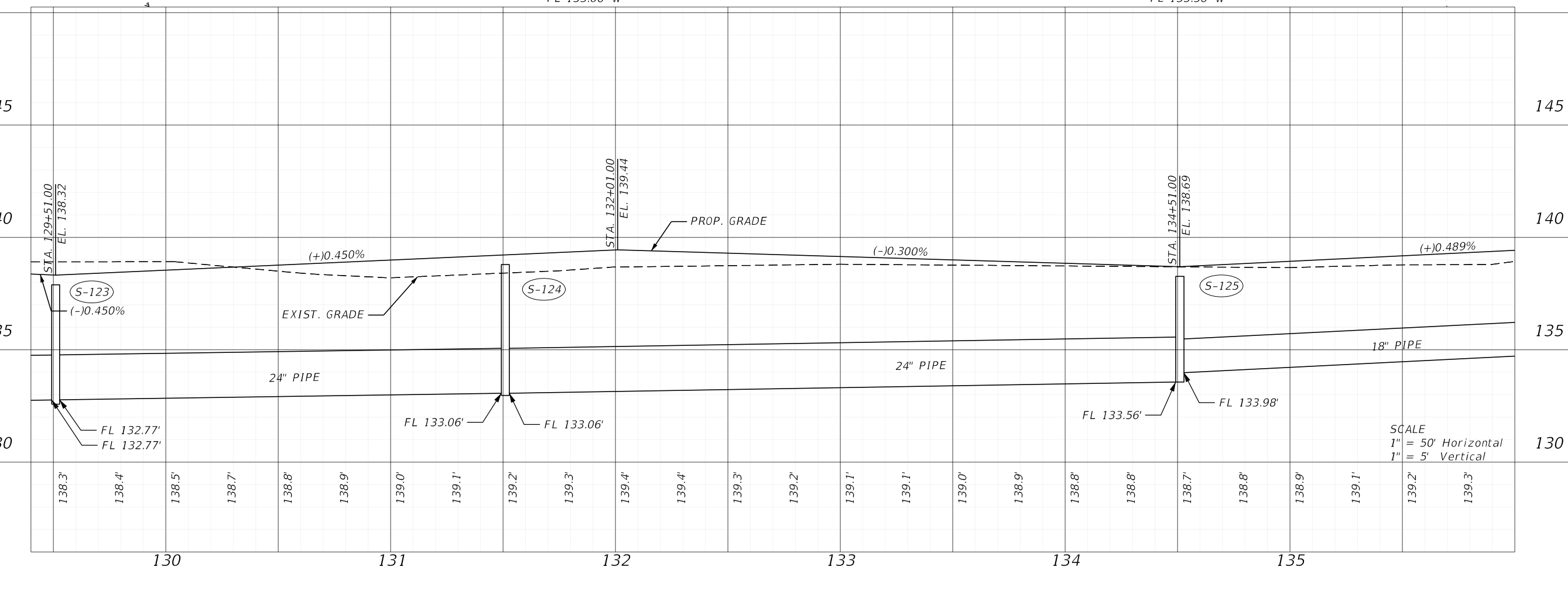
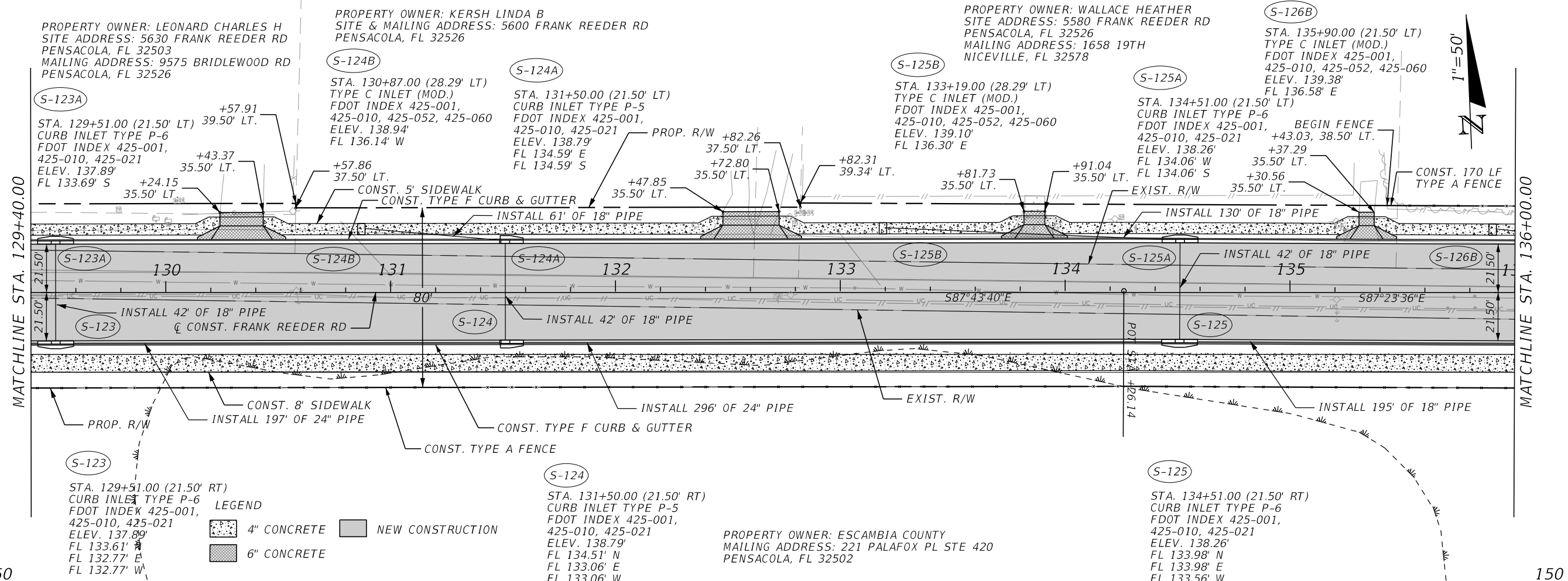
KARLE ANDERSON, P.E. No. 7320  
 DATE: \_\_\_\_\_  
 PROJECT LOCATION: FRANK REEDER ROAD  
 PROJECT NUMBER: PD-21-0202  
 PROJECT MANAGER: KARLE ANDERSON, P.E.

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 7489 WOODBINE ROAD • P.O. Box 1000 • Pensacola, FL 32577  
 Tel 850.289.1000 • Fax 850.289.1001  
 Certificate of Authorization No. 9302

REVISION	DATE	APPROVED BY

SHEET 27

c:\pva\work\america\pa-01\065188\p06002.dwg, December 13, 2023 - 12:01:53 PM, 690662  
 PHASE: REVIEW  
 SIGNATURE: \_\_\_\_\_  
 ORIGINATOR (OP) CHECKER (CP) PRODUCTION CHECKING COMPLETE, READY FOR SUBMITTAL REVIEW (RP)  
 ORIGINATOR (OR) CHECKER (OP) CHANGE INCORPORATION  
 CORRECT (Green Highlighter) Change (Red Pen)  
 CORRECT (Green Highlighter) Change (Red Pen) X-Out to Disappear or Remark  
 (Yellow Highlighter)  
 VERIFICATION CHECKER (VP) (Blue Highlighter)  
 REMARK INCORPORATION (Blue Highlighter)  
 OPERATOR VERIFICATION Correct (Red Highlighter)



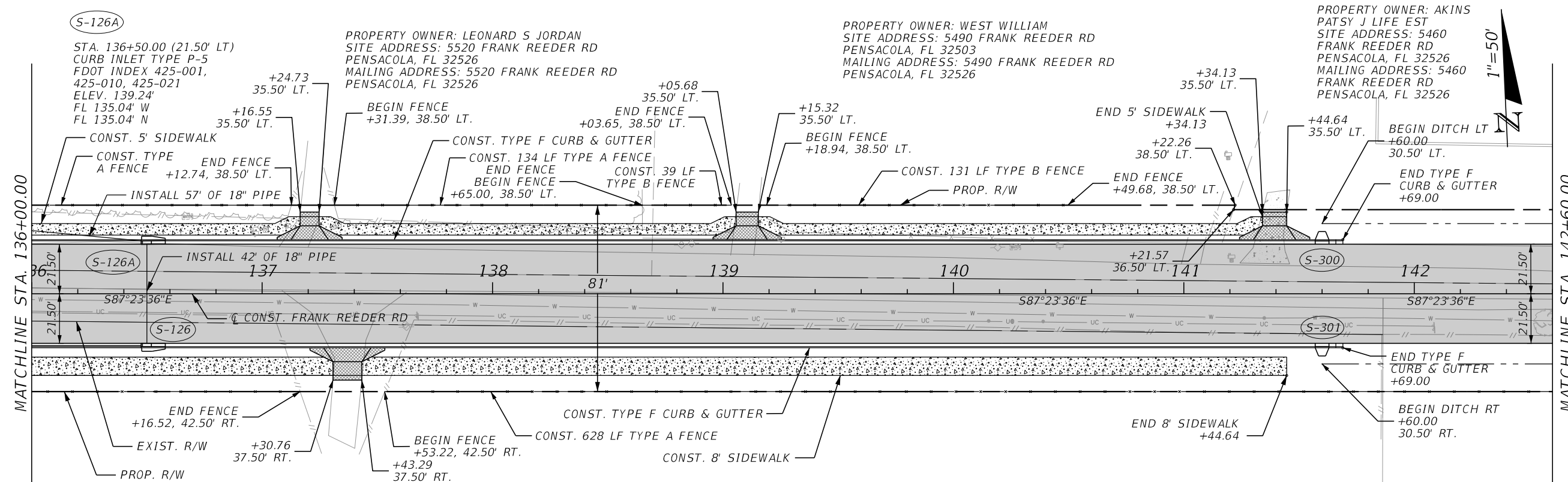
**FRANK REEDER ROAD**  
 ENGINEERING DESIGN  
 PLAN & PROFILE

KARLE ANDERSON, P.E. No. 7320  
 DATE: \_\_\_\_\_  
 PROJECT LOCATION: FRANK REEDER ROAD  
 PROJECT NUMBER: PD-21-0202  
 PROJECT MANAGER: KARLE ANDERSON, P.E.

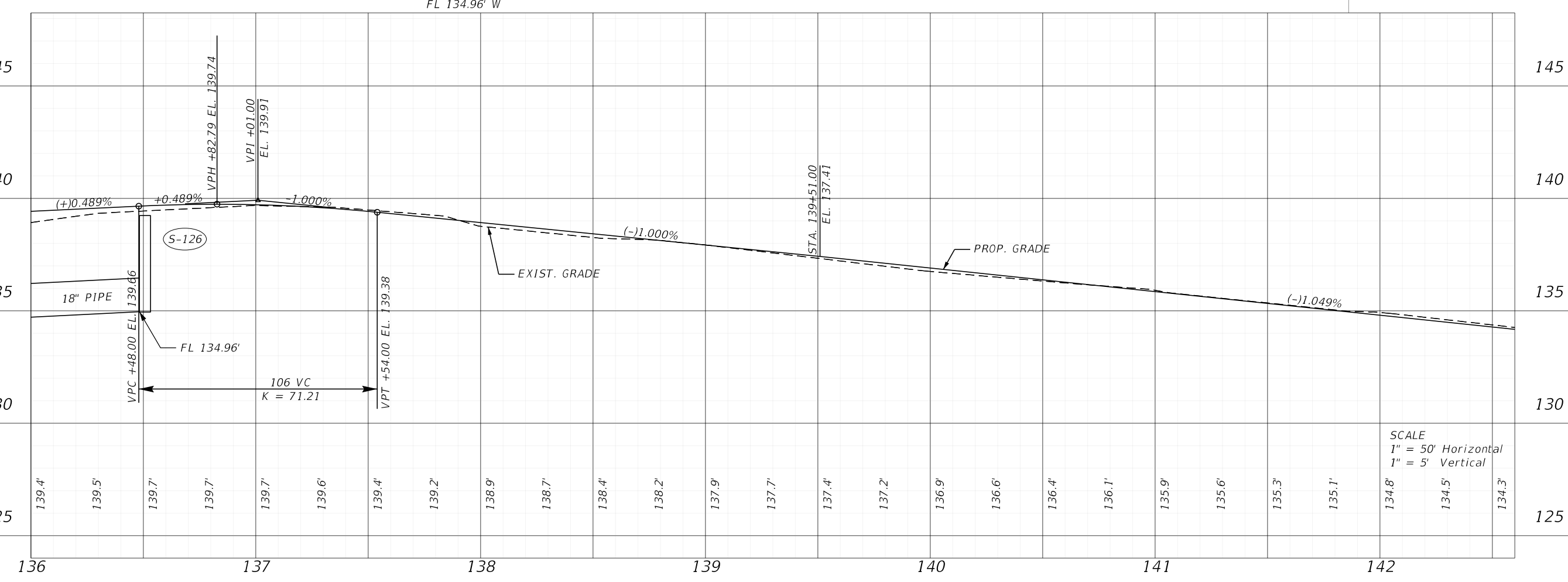
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 Tel 850.289.1000 • Fax 850.289.1001  
 Certificate of Authorization No. 9302

SHEET 28

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 PHASE: REVIEW  
 SIGNATURE: \_\_\_\_\_  
 DATE: \_\_\_\_\_  
 ORIGINATOR (OR): \_\_\_\_\_  
 CHECKER (CP): \_\_\_\_\_  
 VERIFICATION (VF): \_\_\_\_\_  
 OPERATOR (OP): \_\_\_\_\_  
 CORRECT (Green Highlighter) Change (Red Pen)  
 CORRECT (Red Pen X-Out to Disappear or Remark)  
 CHANGES INCORPORATED (Yellow Highlighter)  
 VERIFICATION, CHECKER (CP) (Blue Highlighter)  
 REMARK INCORPORATION (Blue Highlighter)  
 OPERATOR VERIFICATION (Correct (Red Highlighter))



**LEGEND**  
 4" CONCRETE  
 NEW CONSTRUCTION  
 6" CONCRETE



SCALE  
 1" = 50' Horizontal  
 1" = 5' Vertical

# FRANK REEDER ROAD

## ENGINEERING DESIGN

### PLAN & PROFILE

PROJECT LOCATION: FRANK REEDER ROAD PROJECT NUMBER: PD-21-23.P2	PROJECT MANAGER: KARLE ANDERSON, PE
KARLE ANDERSON, P.E. No. 73720 DATE: _____	PROJECT LOCATION: FRANK REEDER ROAD PROJECT NUMBER: PD-21-23.P2

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 Tallahassee, FL 32309 • Tel 904.289.1000 • Fax 904.289.1001  
 Certificate of Authorization No. 9302

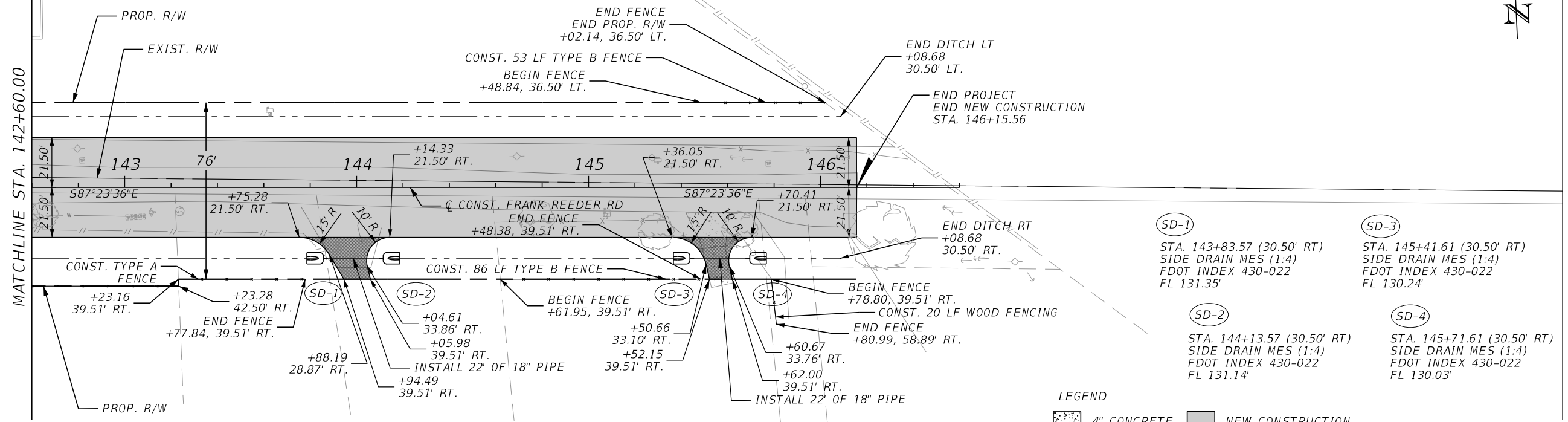
SHEET 29

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PHASE	REVIEW	DATE	ORIGINATOR (OR)	CHECKER (CP)	CHANGE INCORPORATION	ORIGINATOR (OR)	CHECKER (CP)	CHANGE INCORPORATION	ORIGINATOR (OR)	CHECKER (CP)	CHANGE INCORPORATION	ORIGINATOR (OR)	CHECKER (CP)	CHANGE INCORPORATION	ORIGINATOR (OR)	CHECKER (CP)	CHANGE INCORPORATION	ORIGINATOR (OR)	CHECKER (CP)	CHANGE INCORPORATION

SIGNATURE:

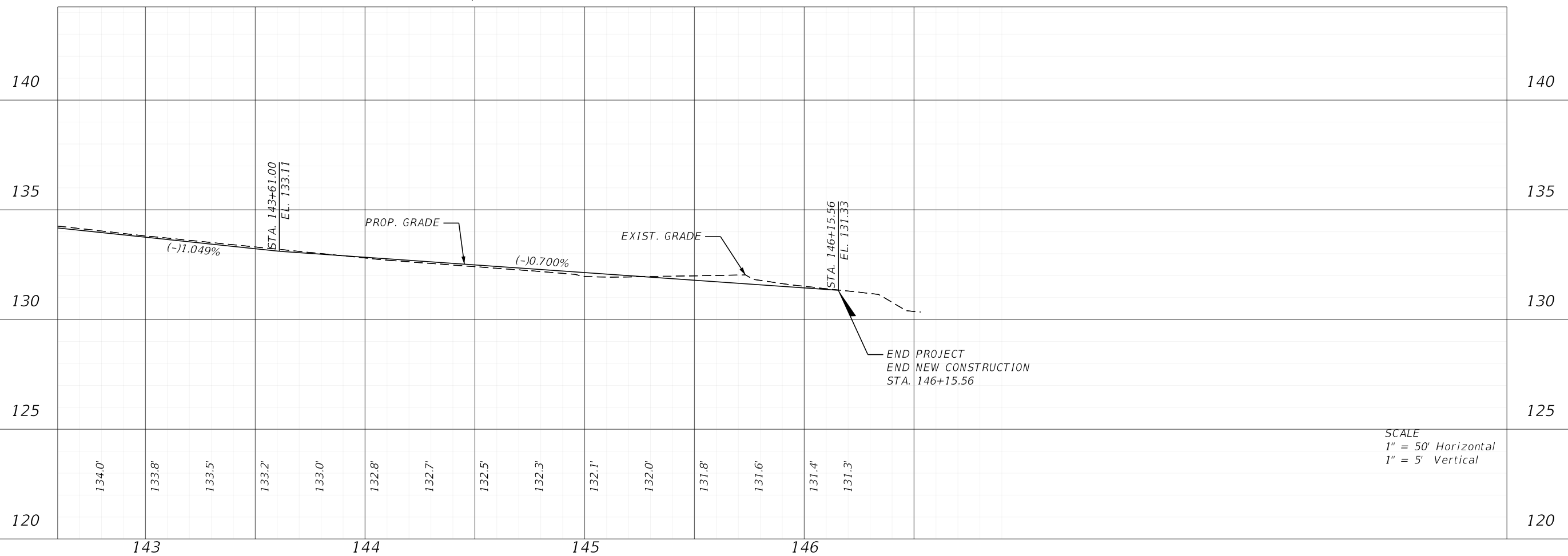
PROPERTY OWNER: AKINS PATSY J LIFE EST  
 SITE ADDRESS: 5460 FRANK REEDER RD  
 PENSACOLA, FL 32526  
 MAILING ADDRESS: 5460 FRANK REEDER RD  
 PENSACOLA, FL 32526



PROPERTY OWNER: NAVY FEDERAL CREDIT UNION  
 SITE ADDRESS: 5400, 5430, 5410 FRANK REEDER RD  
 PENSACOLA, FL 32526  
 MAILING ADDRESS: PO BOX 24626  
 MERRIFIELD, VA 22119

LEGEND  
 [Pattern] 4" CONCRETE  
 [Pattern] 6" CONCRETE  
 [Pattern] NEW CONSTRUCTION

SD-1 STA. 143+83.57 (30.50' RT) SIDE DRAIN MES (1:4) FDOT INDEX 430-022 FL 131.35'  
 SD-2 STA. 144+13.57 (30.50' RT) SIDE DRAIN MES (1:4) FDOT INDEX 430-022 FL 131.14'  
 SD-3 STA. 145+41.61 (30.50' RT) SIDE DRAIN MES (1:4) FDOT INDEX 430-022 FL 130.24'  
 SD-4 STA. 145+71.61 (30.50' RT) SIDE DRAIN MES (1:4) FDOT INDEX 430-022 FL 130.03'



SCALE  
 1" = 50' Horizontal  
 1" = 5' Vertical

**FRANK REEDER ROAD**  
 ENGINEERING DESIGN  
 PLAN & PROFILE

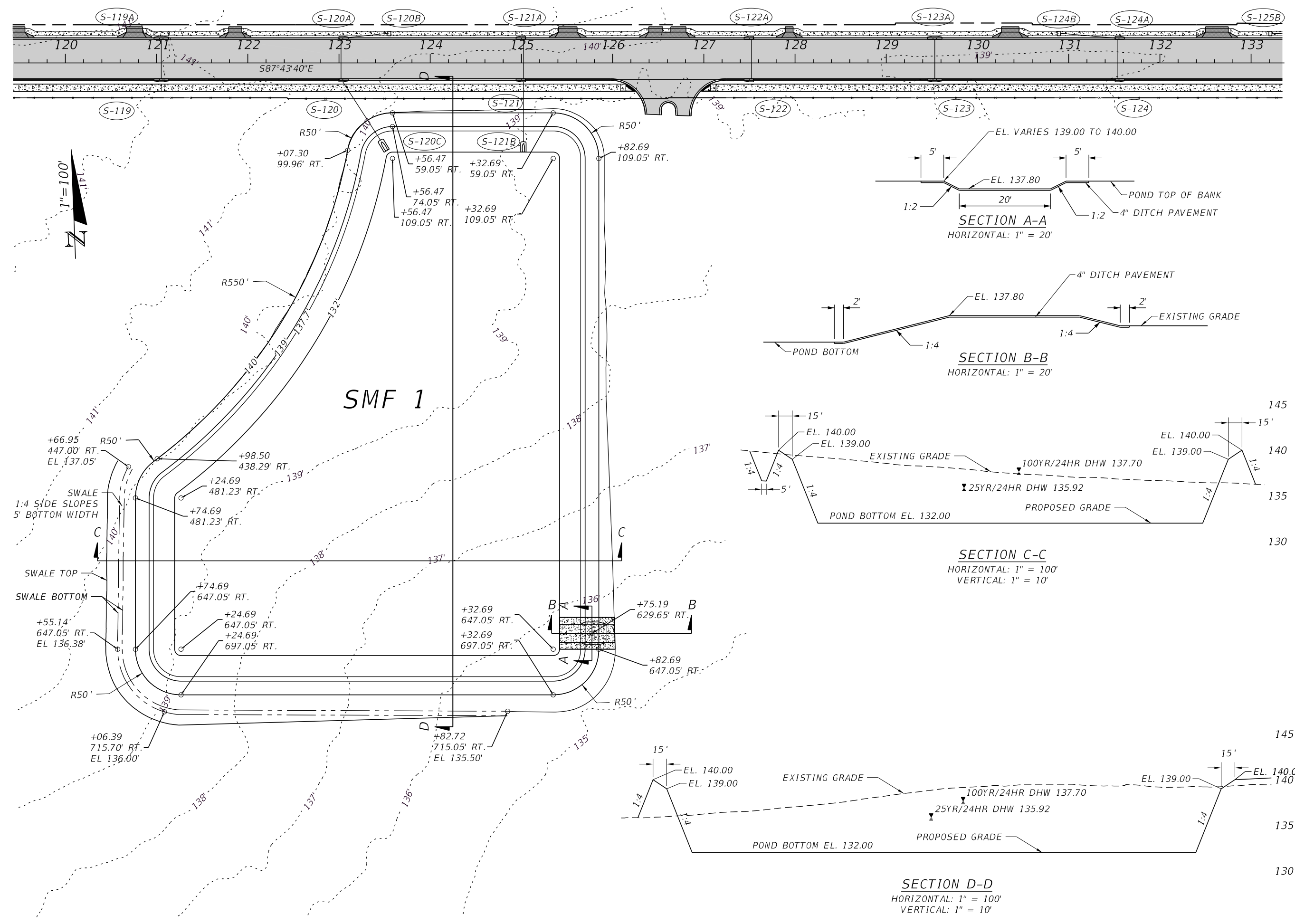
KARLE ANDERSON, P.E. No. 73720  
 DATE: \_\_\_\_\_  
 PROJECT LOCATION: FRANK REEDER ROAD  
 PROJECT NUMBER: PD-21-23-02  
 PROJECT MANAGER: KARLE ANDERSON, PE

**American CONSULTING**  
 7489 WOODBINE ROAD • P.O. Box 1000 • Pensacola, FL 32577  
 Tel 850.289.1000 • Fax 850.289.1001  
 Certificate of Authorization No. 9302

REVISIONS	DATE	APPROVED BY

SHEET 30

c:\p\work\american-pp-01\066155\p061001.dwg, December 5, 2023 - 10:24:48 AM, 56966EJ  
 PHASE: REVIEW  
 SIGNATURE: \_\_\_\_\_  
 DATE: \_\_\_\_\_  
 ORIGINATOR (PP): PRODUCTION CHECKING COMPLETE, READY FOR SUBMITAL REVIEW (PP)  
 CHECKER (PP): \_\_\_\_\_  
 ORIGINATOR (OR): Correct (Green Highlight) Change (Red Pen) (Red Pen X-Out to Disagree or Remark) (Blue Highlight) (Blue Highlight)  
 VERIFICATION CHECKER (VP): \_\_\_\_\_  
 REMARK INCORPORATION (Blue Highlight) (Blue Highlight)  
 OPERATOR VERIFICATION: Correct (Blue Highlight)



**FRANK REEDER ROAD**  
ENGINEERING DESIGN

POND DETAIL

ESCALABA COUNTY - FLORIDA

PROJECT LOCATION: FRANK REEDER ROAD  
 PROJECT NUMBER: PD 21-22-002  
 PROJECT MANAGER: KARLE ANDERSON, PE  
 DATE: \_\_\_\_\_  
 KARLE ANDERSON, P.E. No. 73720

**American CONSULTING**  
 7489 WOODRIFE ROAD • P.O. Box 17098 • Jacksonville, Florida 32217  
 Tel 904.289.1000 • Fax 904.289.1001  
 Certificate of Authorization No. 9302

NO.	REVISIONS	DATE	APPROVED BY

SHEET 31

STATE OF FLORIDA  
DEPARTMENT OF TRANSPORTATION  
MATERIALS AND RESEARCH

DATE OF SURVEY: DECEMBER 2022 TO OCTOBER 2023  
SURVEY MADE BY: TIERRA, INC.  
SUBMITTED BY: MITCHELL L. SMITH, P.E.

DISTRICT: N/A  
ROAD NO.: N/A  
COUNTY: ESCAMBIA

FINANCIAL PROJECT ID : N/A  
PROJECT NAME: FRANK REEDER ROAD

CROSS SECTION SOIL SURVEY FOR THE DESIGN OF ROADS

SURVEY BEGINS STA. : 75+24.22      SURVEY ENDS STA. : 146+15.56      REFERENCE: CENTERLINE OF CONSTRUCTION

STRATUM NO.	ORGANIC CONTENT		MOISTURE CONTENT		SIEVE ANALYSIS RESULTS PERCENT PASS (%)					ATTERBERG LIMITS (%)				DESCRIPTION	CORROSION TEST RESULTS					
	NO. OF TESTS	% ORGANIC	NO. OF TESTS	MOISTURE CONTENT	NO. OF TESTS	10 MESH	40 MESH	60 MESH	100 MESH	200 MESH	NO. OF TESTS	LIQUID LIMIT	PLASTIC INDEX		AASHTO GROUP	NO. OF TESTS	RESISTIVITY ohm-cm	CHLORIDE ppm	SULFATES ppm	pH
1	--	--	3	8-15	3	98-100	74-93	50-66	20-35	9-10	--	--	--	A-3	BROWN, RED, GRAY SAND	--	--	--	--	--
2	--	--	2	9-14	2	100	91	69	39	12-14	--	--	--	A-2-4	BROWN, RED, GRAY SILTY SAND (10%-15% FINES)	5	7,200-81,000	10-15	0-12	5.5-7.8
3	--	--	16	4-17	16	93-100	74-93	47-79	29-58	17-35	1	19	3	A-2-4	BROWN, RED, GRAY SILTY SAND (15%-35% FINES)	2	47,000-99,000	10	3-12	5.5-5.9
4	--	--	16	14-20	15	91-100	87-97	80-88	62-71	36-46	3	16-24	1-6	A-4	RED, YELLOW, GRAY SILT	3	120,000-140,000	10-15	0-3	5.9-6.1
5	3	5-20	3	23-94	1	--	--	--	--	48	--	--	--	A-4	DARK BROWN SILT WITH ORGANICS, 5%<OC<20%	--	--	--	--	--

NOTES:

1. THE MATERIAL FROM STRATUM 1 (A-3) AND STRATUM 2 (A-2-4, 10% TO 15% FINES) APPEARS SATISFACTORY FOR USE IN THE EMBANKMENT WHEN UTILIZED IN ACCORDANCE WITH FDOT STANDARD PLANS, INDEX 120-001.
2. THE MATERIAL FROM STRATUM 3 (A-2-4, 15% TO 35% FINES) APPEARS SATISFACTORY FOR USE IN THE EMBANKMENT WHEN UTILIZED IN ACCORDANCE WITH FDOT STANDARD PLANS, INDEX 120-001. HOWEVER, THIS MATERIAL IS LIKELY TO RETAIN EXCESS MOISTURE AND MAY BE DIFFICULT TO DRY AND COMPACT. IT SHOULD BE USED IN THE EMBANKMENT ABOVE THE WATER LEVEL EXISTING AT THE TIME OF CONSTRUCTION.
3. THE MATERIAL FROM STRATUM 4 (A-4) IS PLASTIC MATERIAL AND SHALL BE MANAGED IN ACCORDANCE WITH FDOT STANDARD PLANS, INDEX 120-002.
4. THE MATERIAL FROM STRATUM 5 (A-4, 5%<OC<20%) IS ORGANIC MATERIAL AND SHALL BE MANAGED IN ACCORDANCE WITH STANDARD PLANS, INDEX 120-002.

EMBANKMENT AND SUBGRADE MATERIAL

STRATA BOUNDARIES ARE APPROXIMATE. MAKE FINAL CHECK AFTER GRADING.

▼ - SEASONAL PERCHED GROUNDWATER LEVEL ENCOUNTERED DURING FIELD EXPLORATIONS

GNE - GROUNDWATER NOT ENCOUNTERED

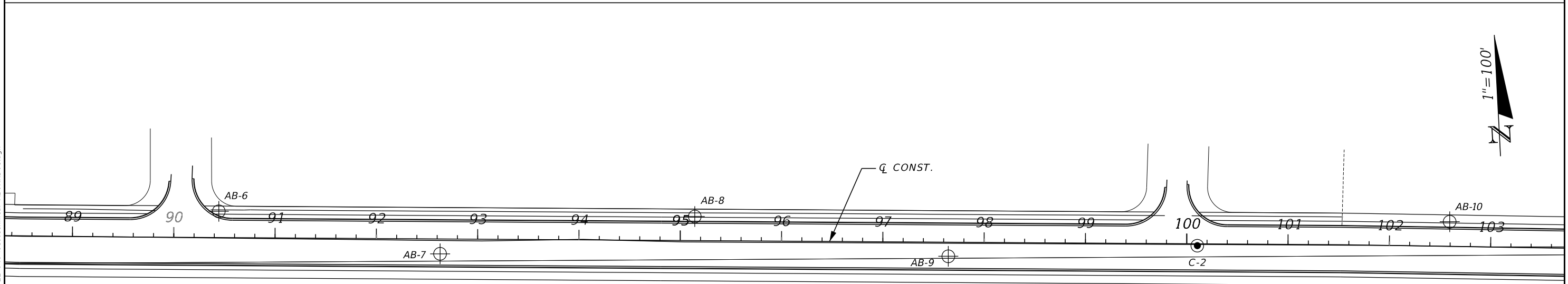
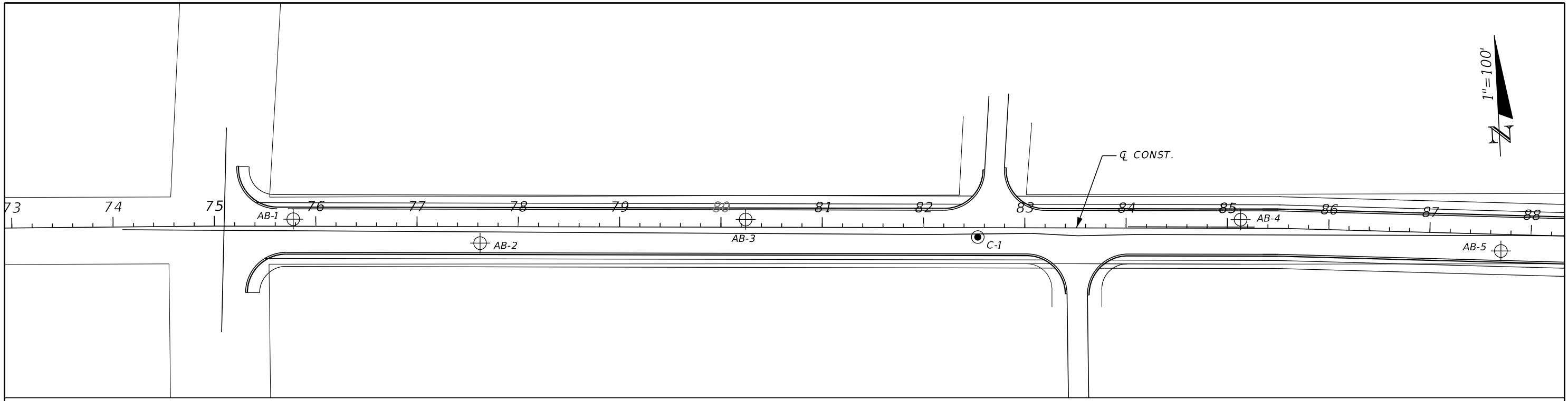
THE "--" INDICATES AN UNMEASURED PARAMETER.

11/29/2023 8:21:13 AM bsawaska N:\4511 GEV\Projects\2022 Projects\4511-22-046\_Frank Reeder Road\ORD\4511-22-046\_Geotechnical\SSUVRD01.dgn

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

REVISIONS				ENGINEER OF RECORD			STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			<b>ROADWAY SOIL SURVEY</b>	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	MITCHELL L. SMITH, P.E. LICENSE NUMBER: 43416 TIERRA, INC. 1300 WEST MAIN STREET PENSACOLA, FLORIDA 32502			ROAD NO.	COUNTY	FINANCIAL PROJECT ID		32
							N/A	ESCAMBIA	N/A		





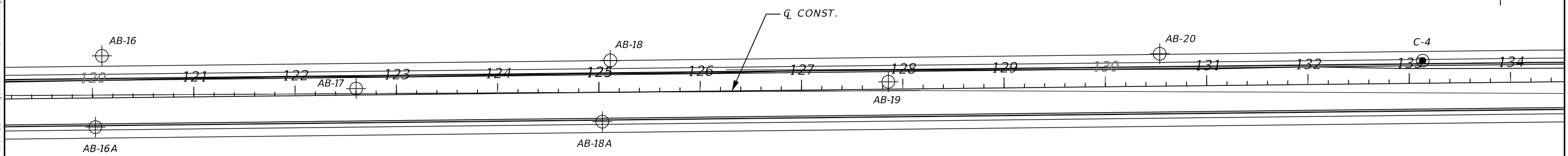
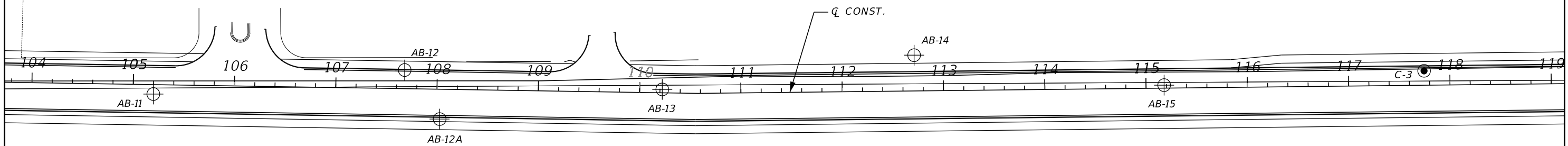
**LEGEND**

⊕ APPROXIMATE AUGER BORING LOCATION



⊗ APPROXIMATE PAVEMENT CORE LOCATION

11/15/2023 1:24:23 PM bsawaska N:\4511\_GEO\Projects\2022\_P\Projects\4511-22-046\_Frank Reeder Road\ORD\4511-22-046\_Geotechnical\ABORRD01.dgn

REVISIONS				ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			<b>BORING LOCATION PLAN (1)</b>	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	MITCHELL L. SMITH, P.E. LICENSE NUMBER: 43416 TIERRA, INC. 1300 WEST MAIN STREET PENSACOLA, FLORIDA 32502		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		33
						N/A	ESCAMBIA	N/A		

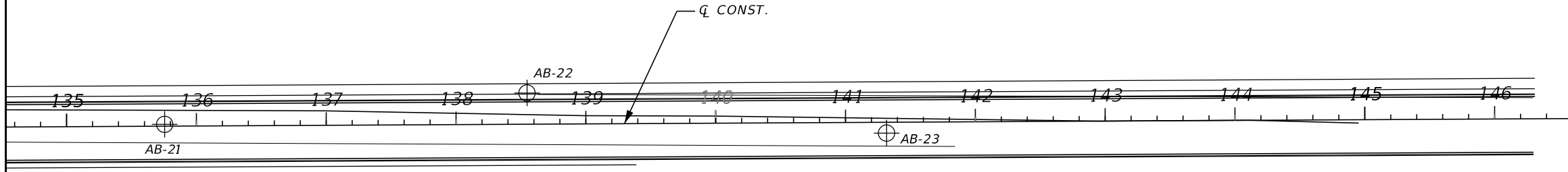


**LEGEND**

-  APPROXIMATE AUGER BORING LOCATION
-  APPROXIMATE PAVEMENT CORE LOCATION

11/15/2023 1:24:24 PM bsawaska N:\4511\_GEO\Projects\2022\_Proj\4511-22-046\_Frank\_Reeder\_Road\ORD\4511-22-046\geotechnical\ABORRD01.dgn

REVISIONS				ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			<b>BORING LOCATION PLAN (2)</b>	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	MITCHELL L. SMITH, P.E. LICENSE NUMBER: 43416 TIERRA, INC. 1300 WEST MAIN STREET PENSACOLA, FLORIDA 32502		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		34
						N/A	ESCAMBIA	N/A		



LEGEND

APPROXIMATE AUGER BORING LOCATION

APPROXIMATE PAVEMENT CORE LOCATION

11/15/2023 1:24:24 PM bsawaska N:\4511\_GEO\Projects\2022\_Projects\4511-22-046\_Frank Reeder Road\ORD\4511-22-046\geotechnical\ABORRD01.dgn

REVISIONS				ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			<i>BORING LOCATION PLAN (3)</i>	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	MITCHELL L. SMITH, P.E. LICENSE NUMBER: 43416 TIERRA, INC. 1300 WEST MAIN STREET PENSACOLA, FLORIDA 32502		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		35
						N/A	ESCAMBIA	N/A		

BOR # AB-1  
 STA. 75+78  
 REF. Q CONST.  
 OFF. 7' LT.  
 ELEV. 120.6  
 DATE 12/8/2022  
 DRILLER M. DAVIS

BOR # AB-2  
 STA. 77+62  
 REF. Q CONST.  
 OFF. 16' RT.  
 ELEV. 122.7  
 DATE 12/8/2022  
 DRILLER M. DAVIS

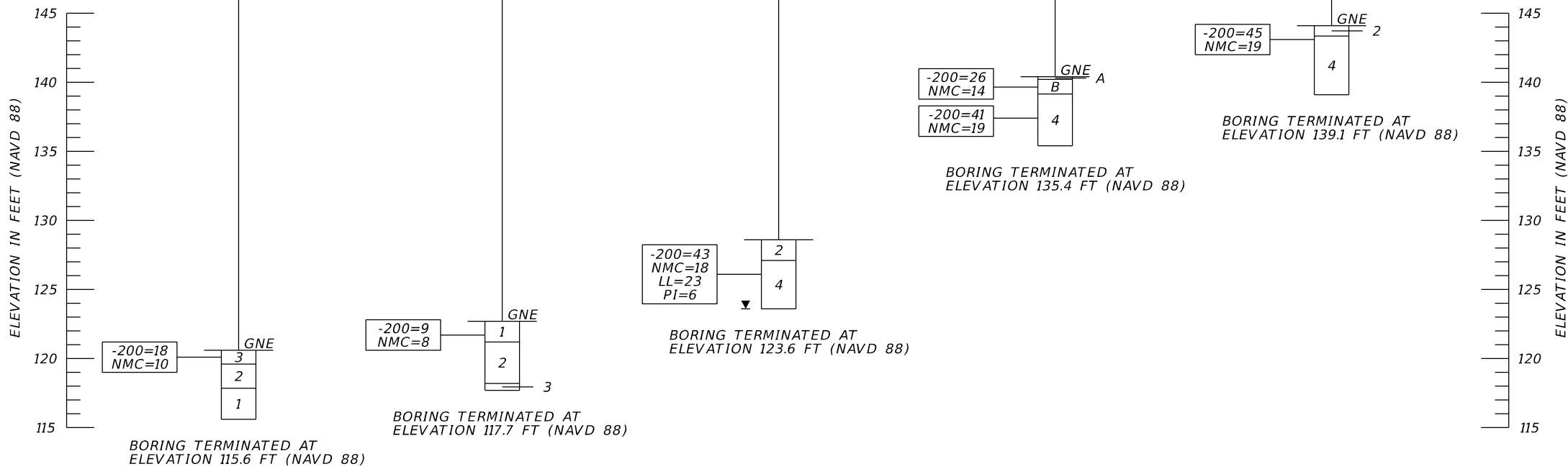
BOR # AB-3  
 STA. 80+24  
 REF. Q CONST.  
 OFF. 8' LT.  
 ELEV. 128.6  
 DATE 12/8/2022  
 DRILLER M. DAVIS

BOR # C-1  
 STA. 82+54  
 REF. Q CONST.  
 OFF. 9' RT.  
 ELEV. 140.4  
 DATE 12/12/2022  
 DRILLER M. DAVIS

BOR # AB-4  
 STA. 85+13  
 REF. Q CONST.  
 OFF. 8' LT.  
 ELEV. 144.1  
 DATE 12/8/2022  
 DRILLER M. DAVIS

**LEGEND**

1. BROWN, RED, GRAY SAND (A-3)
2. BROWN, RED, GRAY SILTY SAND (A-2-4, 10% - 5% FINES)
3. BROWN, RED, GRAY SILTY SAND (A-2-4, 15% - 35% FINES)
4. RED, YELLOW, GRAY SILT (A-4)
5. DARK BROWN SILT WITH ORGANICS, 5%<OC<20% (A-4)
- A. ASPHALT PAVEMENT/MILLINGS (1-1/4 INCHES TO 3-1/4 INCHES THICK)
- B. RED CLAY SAND BASE (3 INCHES TO 12-3/4 INCHES THICK)
- A-3 AASHTO GROUP SYMBOL AS DETERMINED BY VISUAL REVIEW AND LABORATORY TESTING ON SELECTED SAMPLES FOR CONFIRMATION OF VISUAL REVIEW.
- 200 PERCENT PASSING #200 SIEVE
- NMC NATURAL MOISTURE CONTENT (%)
- LL LIQUID LIMIT (%)
- PI PLASTICITY INDEX (%)
- OC ORGANIC CONTENT (%)
- NAVD 88 NORTH AMERICAN VERTICAL DATUM OF 1988
- ▼ SEASONAL PERCHED GROUNDWATER LEVEL ENCOUNTERED DURING FIELD EXPLORATIONS
- GNE GROUNDWATER NOT ENCOUNTERED



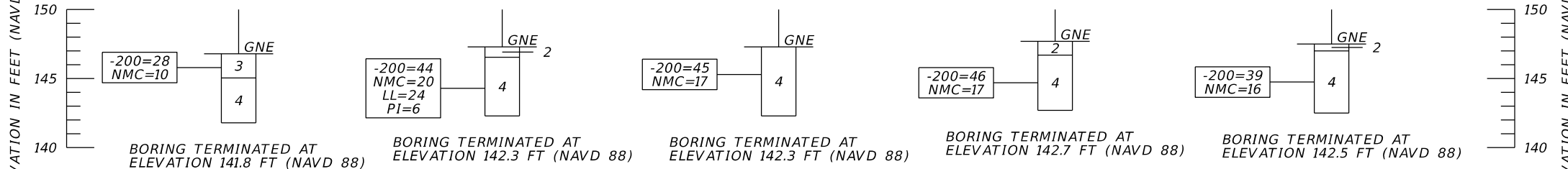
BOR # AB-5  
 STA. 87+70  
 REF. Q CONST.  
 OFF. 17' RT.  
 ELEV. 146.8  
 DATE 12/8/2022  
 DRILLER M. DAVIS

BOR # AB-6  
 STA. 90+44  
 REF. Q CONST.  
 OFF. 26' LT.  
 ELEV. 147.3  
 DATE 12/8/2022  
 DRILLER M. DAVIS

BOR # AB-7  
 STA. 92+63  
 REF. Q CONST.  
 OFF. 15' RT.  
 ELEV. 147.3  
 DATE 12/9/2022  
 DRILLER M. DAVIS

BOR # AB-8  
 STA. 95+14  
 REF. Q CONST.  
 OFF. 24' LT.  
 ELEV. 147.7  
 DATE 12/8/2022  
 DRILLER M. DAVIS

BOR # AB-9  
 STA. 97+65  
 REF. Q CONST.  
 OFF. 14' RT.  
 ELEV. 147.5  
 DATE 12/9/2022  
 DRILLER M. DAVIS



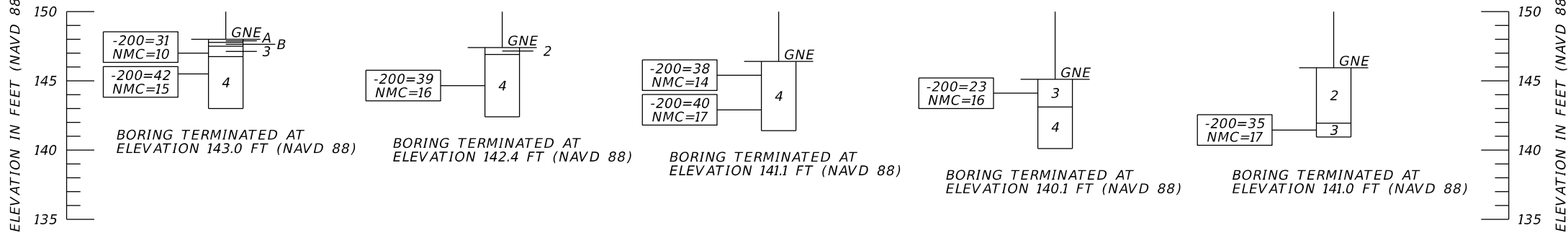
BOR # C-2  
 STA. 100+10  
 REF. Q CONST.  
 OFF. 2' RT.  
 ELEV. 148  
 DATE 12/12/2022  
 DRILLER M. DAVIS

BOR # AB-10  
 STA. 102+59  
 REF. Q CONST.  
 OFF. 24' LT.  
 ELEV. 147.4  
 DATE 12/6/2022  
 DRILLER M. DAVIS

BOR # AB-11  
 STA. 105+20  
 REF. Q CONST.  
 OFF. 9' RT.  
 ELEV. 146.4  
 DATE 12/9/2022  
 DRILLER M. DAVIS

BOR # AB-12  
 STA. 107+68  
 REF. Q CONST.  
 OFF. 18' LT.  
 ELEV. 145.1  
 DATE 12/12/2022  
 DRILLER M. DAVIS

BOR # AB-12A  
 STA. 108+03  
 REF. Q CONST.  
 OFF. 29' RT.  
 ELEV. 146.0  
 DATE 10/9/2023  
 DRILLER M. DAVIS



11/29/2023 8:29:26 AM bsawaska N:\4511 GEV\Projects\2022 Projects\4511-22-046\Gentechical\ABORRD\Prof\01.dgn

REVISIONS		REVISIONS		ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	MITCHELL L. SMITH, P.E. LICENSE NUMBER: 43416 TIERRA, INC. 1300 WEST MAIN STREET PENSACOLA, FLORIDA 32502		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
						N/A	ESCAMBIA	N/A	36

**ROADWAY SOIL PROFILES (1)**

11/29/2023 8:29:27 AM bsawaska N:\4511 GEV\Projects\2022 Projects\4511-22-046\_Frank Reeder Road\ORD\4511-22-046\Gentech\ABORRDProf.s01.dgn

BOR # AB-13  
STA. 110+22  
REF. Q CONST.  
OFF. 3' LT.  
ELEV. 143.5  
DATE 12/9/2022  
DRILLER M. DAVIS

BOR # AB-14  
STA. 112+71  
REF. Q CONST.  
OFF. 35' LT.  
ELEV. 140.9  
DATE 12/9/2022  
DRILLER M. DAVIS

BOR # AB-15  
STA. 115+18  
REF. Q CONST.  
OFF. 3' LT.  
ELEV. 141.2  
DATE 12/6/2022  
DRILLER M. DAVIS

BOR # C-3  
STA. 117+75  
REF. Q CONST.  
OFF. 14' LT.  
ELEV. 141.3  
DATE 12/12/2022  
DRILLER M. DAVIS

BOR # AB-16A  
STA. 120+02  
REF. Q CONST.  
OFF. 29' RT.  
ELEV. 141.0  
DATE 10/9/2023  
DRILLER M. DAVIS

**LEGEND**

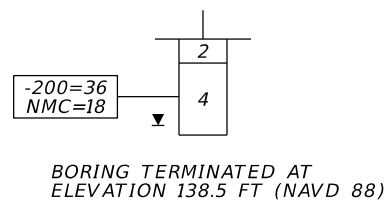
1. BROWN, RED, GRAY SAND (A-3)
2. BROWN, RED, GRAY SILTY SAND (A-2-4, 10% - 5% FINES)
3. BROWN, RED, GRAY SILTY SAND (A-2-4, 15% - 35% FINES)
4. RED, YELLOW, GRAY SILT (A-4)
5. DARK BROWN SILT WITH ORGANICS, 5%<OC<20% (A-4)
- A. ASPHALT PAVEMENT/MILLINGS (1-1/4 INCHES TO 3-1/4 INCHES THICK)
- B. RED CLAY SAND BASE (3 INCHES TO 12-3/4 INCHES THICK)
- A-3 AASHTO GROUP SYMBOL AS DETERMINED BY VISUAL REVIEW AND LABORATORY TESTING ON SELECTED SAMPLES FOR CONFIRMATION OF VISUAL REVIEW.
- 200 PERCENT PASSING #200 SIEVE
- NMC NATURAL MOISTURE CONTENT (%)
- LL LIQUID LIMIT (%)
- PI PLASTICITY INDEX (%)
- OC ORGANIC CONTENT (%)

NAVD 88 NORTH AMERICAN VERTICAL DATUM OF 1988

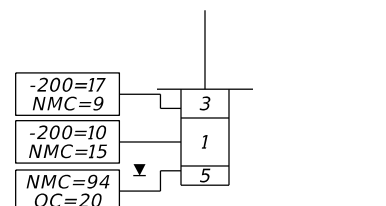
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GNE GROUNDWATER NOT ENCOUNTERED

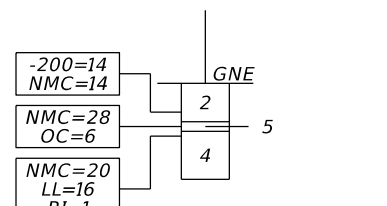
ELEVATION IN FEET (NAVD 88)



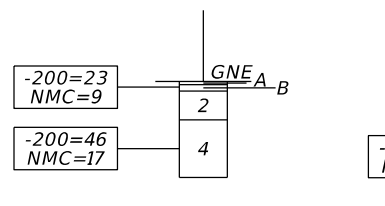
BORING TERMINATED AT ELEVATION 138.5 FT (NAVD 88)



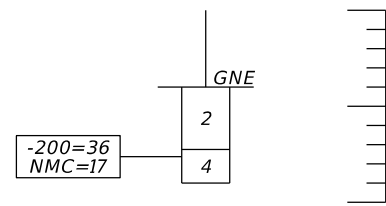
BORING TERMINATED AT ELEVATION 135.9 FT (NAVD 88)



BORING TERMINATED AT ELEVATION 136.2 FT (NAVD 88)



BORING TERMINATED AT ELEVATION 136.3 FT (NAVD 88)



BORING TERMINATED AT ELEVATION 136.0 FT (NAVD 88)

ELEVATION IN FEET (NAVD 88)

ELEVATION IN FEET (NAVD 88)

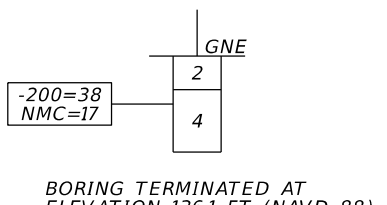
BOR # AB-16  
STA. 120+10  
REF. Q CONST.  
OFF. 41' LT.  
ELEV. 141.1  
DATE 12/6/2022  
DRILLER M. DAVIS

BOR # AB-17  
STA. 122+60  
REF. Q CONST.  
OFF. 6' LT.  
ELEV. 140.3  
DATE 12/6/2022  
DRILLER M. DAVIS

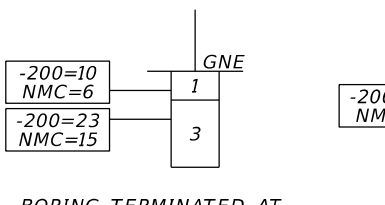
BOR # AB-18A  
STA. 125+03  
REF. Q CONST.  
OFF. 29' RT.  
ELEV. 140.0  
DATE 10/9/2023  
DRILLER M. DAVIS

BOR # AB-18  
STA. 125+11  
REF. Q CONST.  
OFF. 31' LT.  
ELEV. 139.9  
DATE 12/6/2022  
DRILLER M. DAVIS

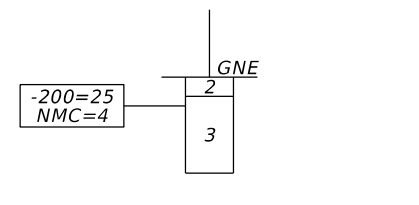
BOR # AB-19  
STA. 127+86  
REF. Q CONST.  
OFF. 7' LT.  
ELEV. 139.3  
DATE 12/6/2022  
DRILLER M. DAVIS



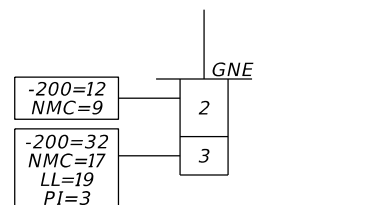
BORING TERMINATED AT ELEVATION 136.1 FT (NAVD 88)



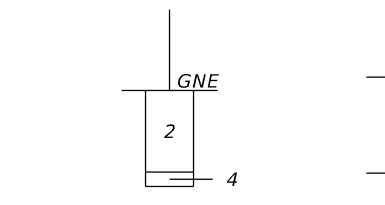
BORING TERMINATED AT ELEVATION 135.3 FT (NAVD 88)



BORING TERMINATED AT ELEVATION 135.0 FT (NAVD 88)



BORING TERMINATED AT ELEVATION 134.9 FT (NAVD 88)



BORING TERMINATED AT ELEVATION 134.3 FT (NAVD 88)

ELEVATION IN FEET (NAVD 88)

ELEVATION IN FEET (NAVD 88)

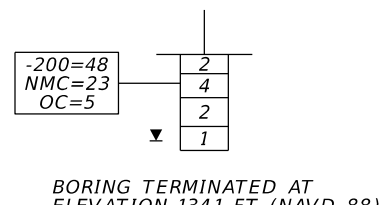
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STA. 130+54  
REF. Q CONST.  
OFF. 32' LT.  
ELEV. 139.1  
DATE 12/6/2022  
DRILLER M. DAVIS

BOR # C-4  
STA. 133+13  
REF. Q CONST.  
OFF. 22' LT.  
ELEV. 139.5  
DATE 12/12/2022  
DRILLER M. DAVIS

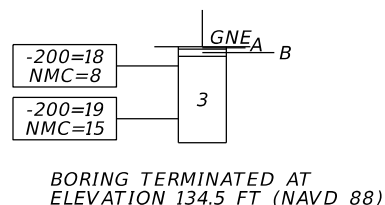
BOR # AB-21  
STA. 135+76  
REF. Q CONST.  
OFF. 1' LT.  
ELEV. 139.1  
DATE 12/6/2022  
DRILLER M. DAVIS

BOR # AB-22  
STA. 138+55  
REF. Q CONST.  
OFF. 24' LT.  
ELEV. 138.5  
DATE 12/6/2022  
DRILLER M. DAVIS

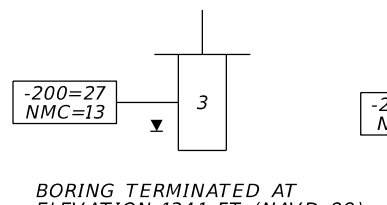
BOR # AB-23  
STA. 141+32  
REF. Q CONST.  
OFF. 8' RT.  
ELEV. 135.3  
DATE 12/6/2022  
DRILLER M. DAVIS



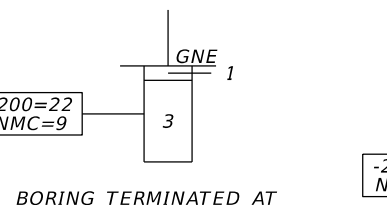
BORING TERMINATED AT ELEVATION 134.1 FT (NAVD 88)



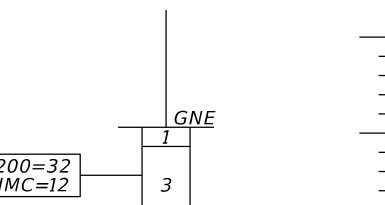
BORING TERMINATED AT ELEVATION 134.5 FT (NAVD 88)



BORING TERMINATED AT ELEVATION 134.1 FT (NAVD 88)



BORING TERMINATED AT ELEVATION 133.5 FT (NAVD 88)



BORING TERMINATED AT ELEVATION 130.3 FT (NAVD 88)

ELEVATION IN FEET (NAVD 88)

REVISIONS

ENGINEER OF RECORD

STATE OF FLORIDA  
DEPARTMENT OF TRANSPORTATION

DATE	DESCRIPTION	DATE	DESCRIPTION

--	--	--	--

MITCHELL L. SMITH, P.E.  
LICENSE NUMBER: 43416  
TIERRA, INC.  
1300 WEST MAIN STREET  
PENSACOLA, FLORIDA 32502

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
N/A	ESCAMBIA	N/A

ROADWAY SOIL PROFILES (2)

SHEET NO.

37

STATE OF FLORIDA  
DEPARTMENT OF TRANSPORTATION  
MATERIALS AND RESEARCH

DATE OF SURVEY: SEPTEMBER 2023  
SURVEY MADE BY: TIERRA, INC.  
SUBMITTED BY: MITCHELL L. SMITH, P.E.

DISTRICT: N/A  
ROAD NO.: N/A  
COUNTY: ESCAMBIA

FINANCIAL PROJECT ID : N/A  
PROJECT NAME: FRANK REEDER ROAD

CROSS SECTION SOIL SURVEY FOR THE DESIGN OF ROADS

SURVEY BEGINS STA. : 118+96.00      SURVEY ENDS STA. : 127+16.00      REFERENCE: CENTERLINE OF CONSTRUCTION

STRATUM NO.	ORGANIC CONTENT		MOISTURE CONTENT		SIEVE ANALYSIS RESULTS					ATTERBERG LIMITS (%)				DESCRIPTION	CORROSION TEST RESULTS					
	NO. OF TESTS	% ORGANIC	NO. OF TESTS	MOISTURE CONTENT	NO. OF TESTS	10 MESH	40 MESH	60 MESH	100 MESH	200 MESH	NO. OF TESTS	LIQUID LIMIT	PLASTIC INDEX		AASHTO GROUP	NO. OF TESTS	RESISTIVITY ohm-cm	CHLORIDE ppm	SULFATES ppm	pH
1	--	--	5	6-11	5	87-100	65-67	31-44	17-18	5-10	--	--	--	A-3	BROWN, RED, GRAY SLIGHTLY SILTY SAND	--	--	--	--	--
3	--	--	6	5-12	6	98-100	74-92	50-75	34-53	23-35	--	--	--	A-2-4	BROWN, RED, GRAY SILTY SAND (15%-35% FINES)	2	47,000-99,000	10	3-12	5.5-5.9
4	--	--	1	19	1	97	94	87	74	47	--	--	--	A-4	RED, YELLOW, GRAY SILT	3	120,000-140,000	10-15	0-3	5.9-6.1

NOTES:

- THE MATERIAL FROM STRATUM 1 (A-3) APPEARS SATISFACTORY FOR USE IN THE EMBANKMENT WHEN UTILIZED IN ACCORDANCE WITH FDOT STANDARD PLANS, INDEX 120-001.
- THE MATERIAL FROM STRATUM 3 (A-2-4, 15% TO 35% FINES) APPEARS SATISFACTORY FOR USE IN THE EMBANKMENT WHEN UTILIZED IN ACCORDANCE WITH FDOT STANDARD PLANS, INDEX 120-001. HOWEVER, THIS MATERIAL IS LIKELY TO RETAIN EXCESS MOISTURE AND MAY BE DIFFICULT TO DRY AND COMPACT. IT SHOULD BE USED IN THE EMBANKMENT ABOVE THE WATER LEVEL EXISTING AT THE TIME OF CONSTRUCTION.
- THE MATERIAL FROM STRATUM 4 (A-4) IS PLASTIC MATERIAL AND SHALL BE MANAGED IN ACCORDANCE WITH FDOT STANDARD PLANS, INDEX 120-002.

EMBANKMENT AND SUBGRADE MATERIAL

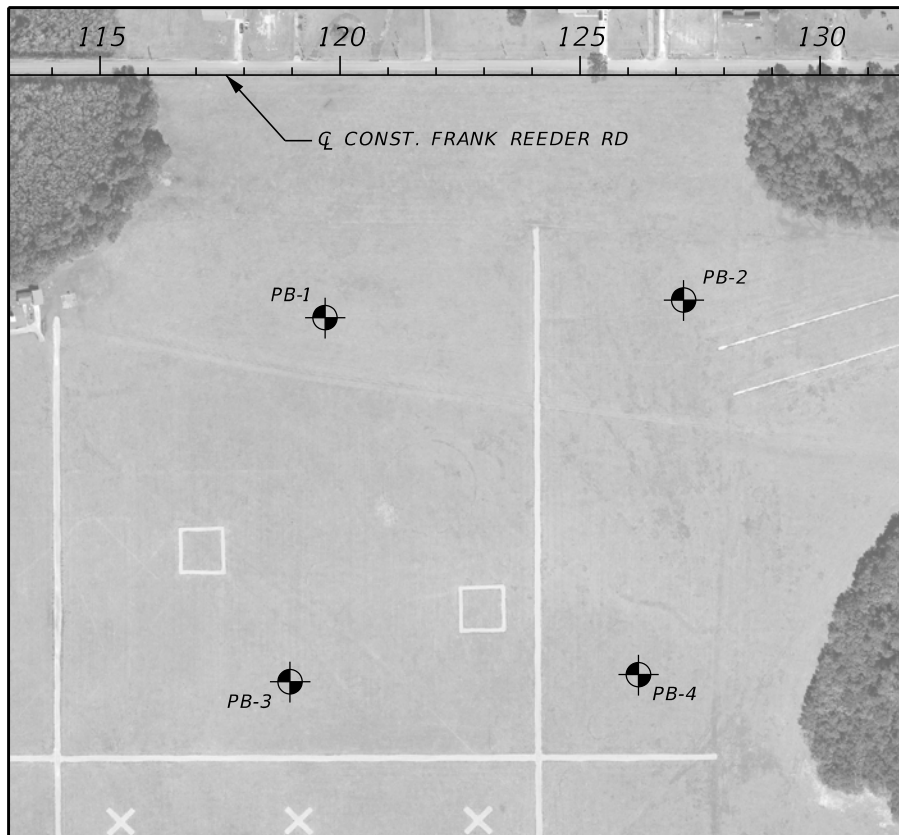
STRATA BOUNDARIES ARE APPROXIMATE. MAKE FINAL CHECK AFTER GRADING.

- ▽ - ESTIMATED SEASONAL HIGH GROUNDWATER TABLE
- ▼ - GROUNDWATER LEVEL ENCOUNTERED DURING FIELD EXPLORATIONS
- GNE - GROUNDWATER NOT ENCOUNTERED
- THE "--" INDICATES AN UNMEASURED PARAMETER.

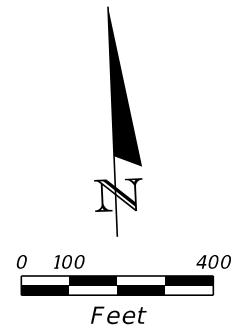
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THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

REVISIONS				ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			POND SOIL SURVEY	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	MITCHELL L. SMITH, P.E. LICENSE NUMBER: 43416 TIERRA, INC. 1300 WEST MAIN STREET PENSACOLA, FLORIDA 32502		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		38
						N/A	ESCAMBIA	N/A		



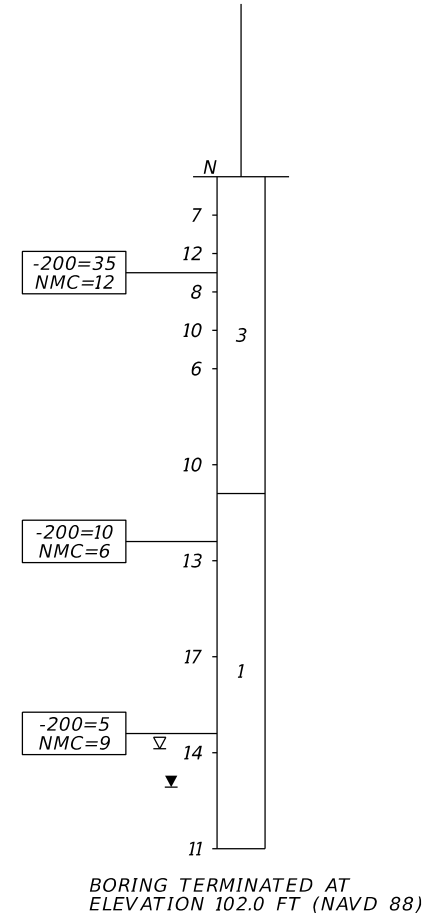
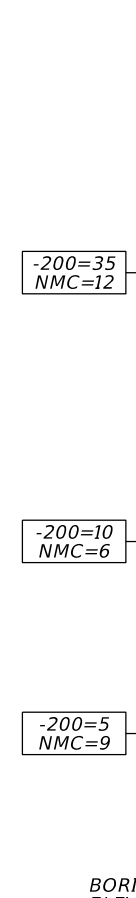
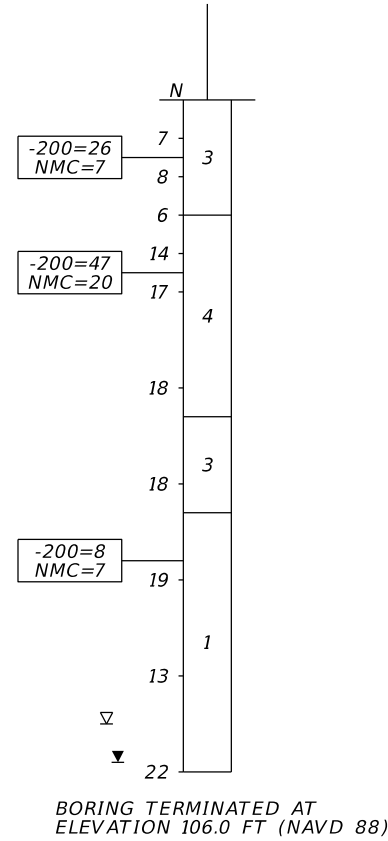
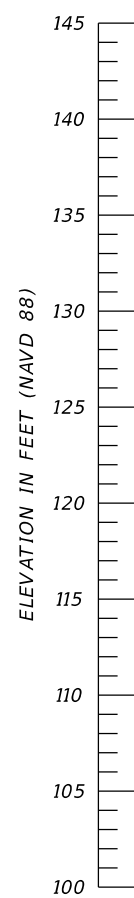
**BORING LOCATION PLAN**



- LEGEND**
1. BROWN, RED, GRAY SLIGHTLY SILTY SAND
  3. BROWN, RED, GRAY SILTY SAND (15%-35% FINES)
  4. RED, YELLOW, GRAY SILT
- A-3 AASHTO GROUP SYMBOL AS DETERMINED BY VISUAL REVIEW AND LABORATORY TESTING ON SELECTED SAMPLES FOR CONFIRMATION OF VISUAL REVIEW.
- N NUMBERS TO THE LEFT OF BORINGS INDICATE SPT VALUE FOR 12 INCHES OF PENETRATION (UNLESS OTHERWISE NOTED).
- 200 PERCENT PASSING #200 SIEVE  
NMC NATURAL MOISTURE CONTENT (%)
- NAVD 88 NORTH AMERICAN VERTICAL DATUM OF 1988
- APPROXIMATE SPT BORING LOCATION
- ESTIMATED SEASONAL HIGH GROUNDWATER TABLE
- GROUNDWATER LEVEL ENCOUNTERED DURING FIELD EXPLORATIONS
- Q CONST. CENTERLINE CONSTRUCTION OF FRANK REEDER ROAD
- ELEV. GROUND SURFACE ELEVATION ESTIMATED FROM GOOGLE EARTH

BOR # PB-1  
 STA. 119+69  
 REF. Q CONST.  
 OFF. 506' RT.  
 ELEV. 141.0  
 DATE 9/21/2023  
 DRILLER S. RYAN  
 HAMMER SAFETY  
 RIG B-24

BOR # PB-2  
 STA. 127+16  
 REF. Q CONST.  
 OFF. 469' RT.  
 ELEV. 137.0  
 DATE 9/21/2023  
 DRILLER S. RYAN  
 HAMMER SAFETY  
 RIG B-24



SAFETY HAMMER	
GRANULAR MATERIALS-RELATIVE DENSITY	SPT N-VALUE (BLOWS/FT.)
VERY LOOSE	LESS THAN 4
LOOSE	4 to 10
MEDIUM DENSE	10 to 30
DENSE	30 to 50
VERY DENSE	GREATER THAN 50
SILTS AND CLAYS CONSISTENCY	SPT N-VALUE (BLOWS/FT.)
VERY SOFT	LESS THAN 2
SOFT	2 to 4
FIRM	4 to 8
STIFF	8 to 15
VERY STIFF	15 to 30
HARD	GREATER THAN 30

10/10/2023 2:25:09 PM bgarcia N:\4511 GEO\Projects\2022 Projects\4511-22-046\_Frank Reeder Road\ORD\4511-22-046\geotechnical\FBORRD01.dgn

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

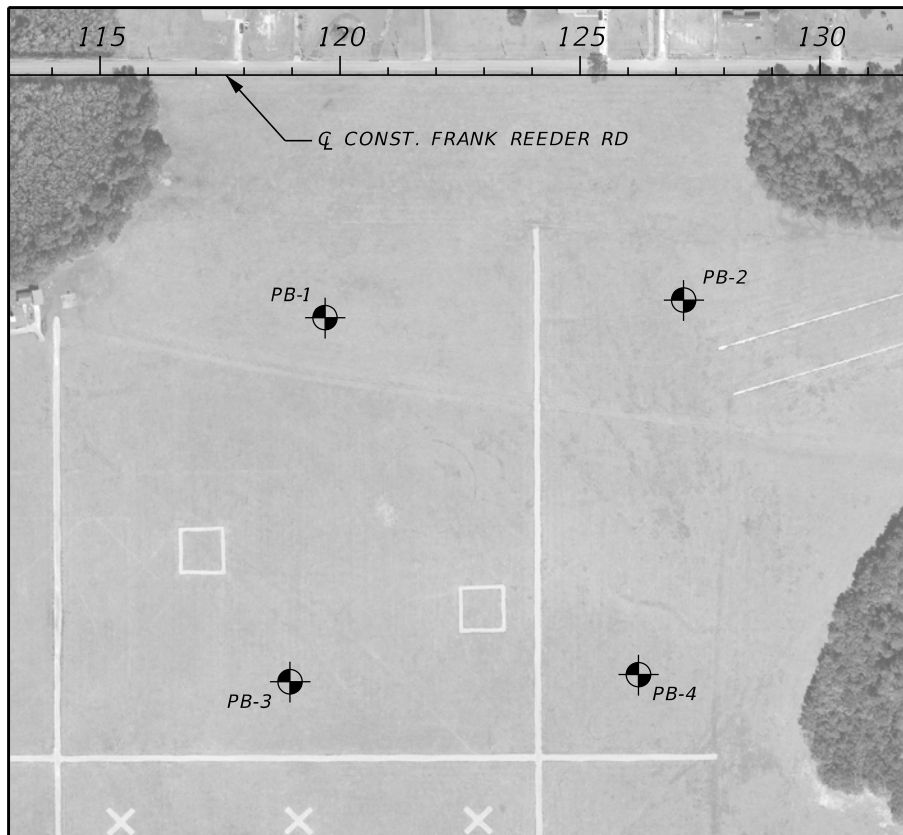
**ENGINEER OF RECORD**  
 MITCHELL L. SMITH, P.E.  
 LICENSE NUMBER: 43416  
 TIERRA, INC.  
 1300 WEST MAIN STREET  
 PENSACOLA, FLORIDA 32502

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
N/A	ESCAMBIA	N/A

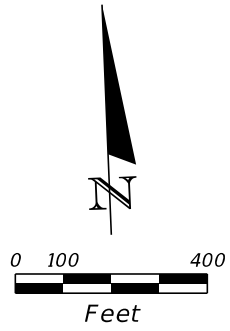
**POND SOIL SURVEY (1)**

SHEET NO.  
**39**

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



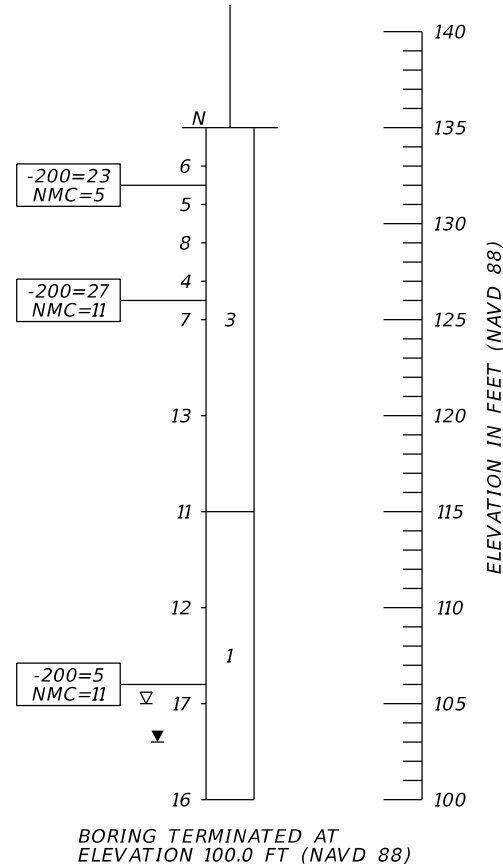
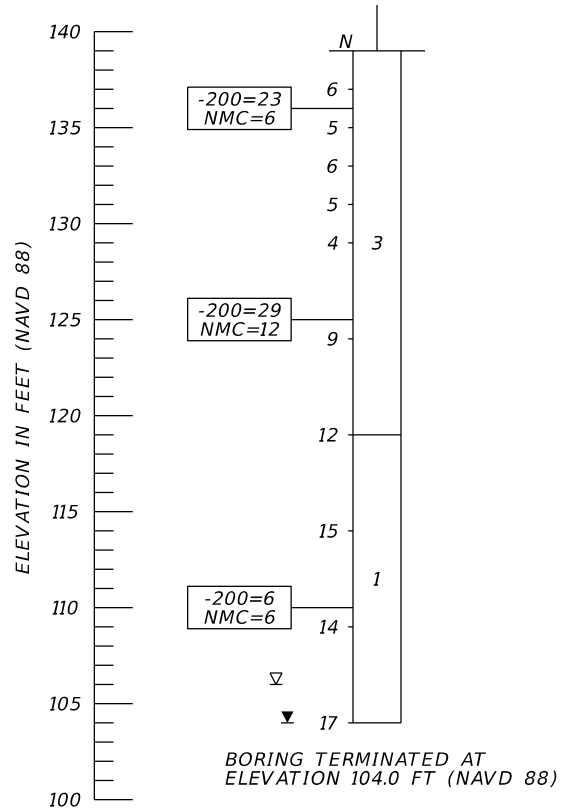
**BORING LOCATION PLAN**



- LEGEND**
1. BROWN, RED, GRAY SLIGHTLY SILTY SAND
  3. BROWN, RED, GRAY SILTY SAND (15%-35% FINES)
  4. RED, YELLOW, GRAY SILT
- A-3 AASHTO GROUP SYMBOL AS DETERMINED BY VISUAL REVIEW AND LABORATORY TESTING ON SELECTED SAMPLES FOR CONFIRMATION OF VISUAL REVIEW.
- N NUMBERS TO THE LEFT OF BORINGS INDICATE SPT VALUE FOR 12 INCHES OF PENETRATION (UNLESS OTHERWISE NOTED).
- 200 PERCENT PASSING #200 SIEVE  
NMC NATURAL MOISTURE CONTENT (%)
- NAVD 88 NORTH AMERICAN VERTICAL DATUM OF 1988
- APPROXIMATE SPT BORING LOCATION
- ESTIMATED SEASONAL HIGH GROUNDWATER TABLE
- GROUNDWATER LEVEL ENCOUNTERED DURING FIELD EXPLORATIONS
- Q CONST. CENTERLINE CONSTRUCTION OF FRANK REEDER ROAD
- ELEV. GROUND SURFACE ELEVATION ESTIMATED FROM GOOGLE EARTH

BOR # PB-3  
 STA. 118+96  
 REF. Q CONST.  
 OFF. 1264' RT.  
 ELEV. 139.0  
 DATE 9/21/2023  
 DRILLER S. RYAN  
 HAMMER SAFETY  
 RIG B-24

BOR # PB-4  
 STA. 126+22  
 REF. Q CONST.  
 OFF. 1249' RT.  
 ELEV. 135.0  
 DATE 9/21/2023  
 DRILLER S. RYAN  
 HAMMER SAFETY  
 RIG B-24



SAFETY HAMMER	
GRANULAR MATERIALS- RELATIVE DENSITY	SPT N-VALUE (BLOWS/FT.)
VERY LOOSE	LESS THAN 4
LOOSE	4 to 10
MEDIUM DENSE	10 to 30
DENSE	30 to 50
VERY DENSE	GREATER THAN 50
SILTS AND CLAYS CONSISTENCY	SPT N-VALUE (BLOWS/FT.)
VERY SOFT	LESS THAN 2
SOFT	2 to 4
FIRM	4 to 8
STIFF	8 to 15
VERY STIFF	15 to 30
HARD	GREATER THAN 30

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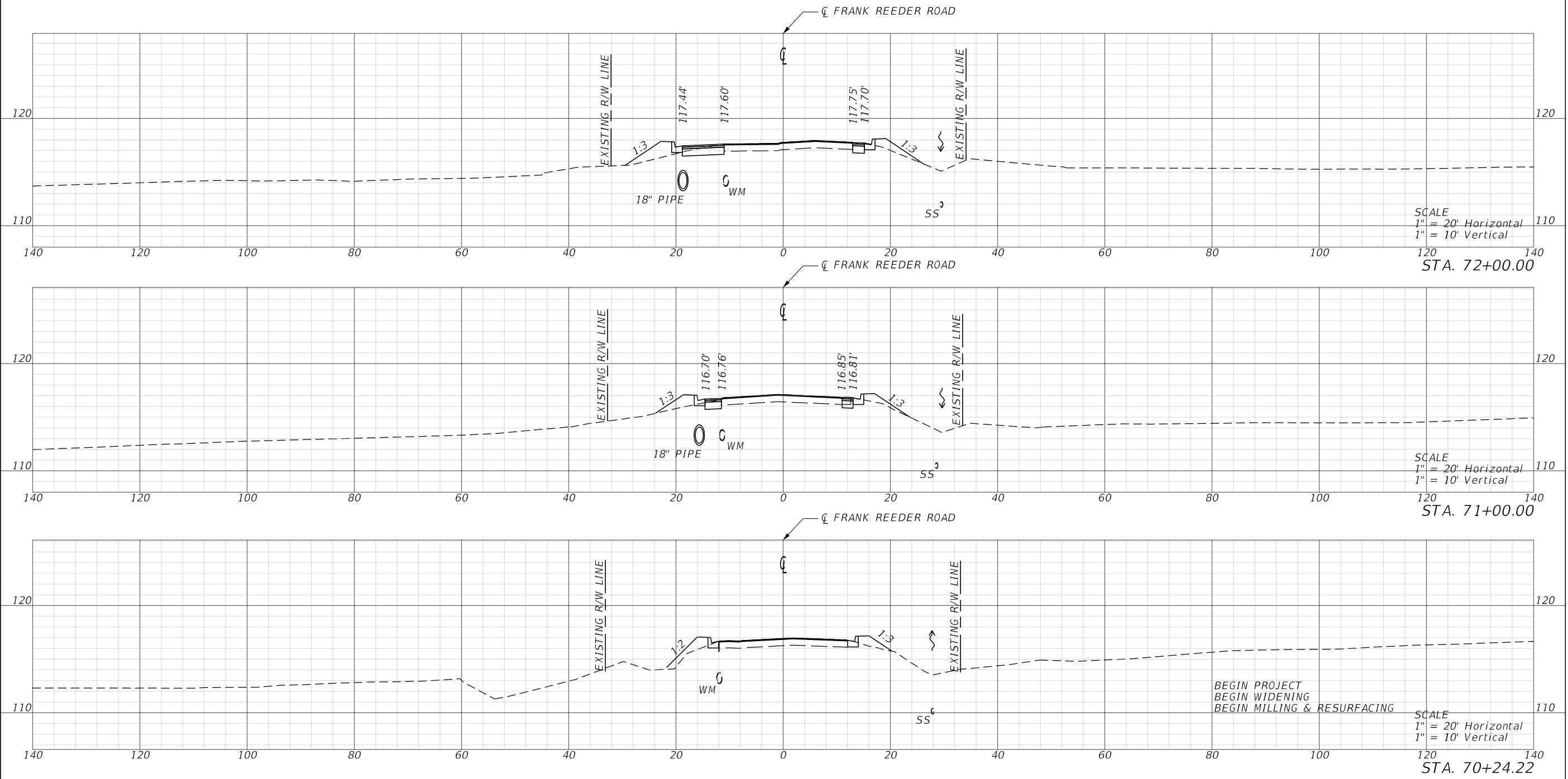
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

REVISIONS				ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	MITCHELL L. SMITH, P.E. LICENSE NUMBER: 43416 TIERRA, INC. 1300 WEST MAIN STREET PENSACOLA, FLORIDA 32502		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
						N/A	ESCAMBIA	N/A	
<b>POND SOIL SURVEY (2)</b>									40



c:\pva\_wor\american-pe-01\066188A\RD25000.dwg, December 13, 2023 - 11:37:39 AM, 690662

PHASE	REVIEW	DATE	ORIGINATOR (OR)	CHECKER (CP)	DATE	VERIFICATION CHECKER (VC)	DATE
SIGNATURE:			CORRECT (Green Highlighter) Change (Red Pen)		DATE	REMARK INCORPORATION (Blue Highlighter)	
			CHECKER (CP) (Red Pen X-Out to Disappear or Remark)		DATE	OPERATOR VERIFICATION (Blue Highlighter)	
			ORIGINATOR (OR)		DATE	CORRECT (Red Highlighter)	
			PRODUCTION CHECKING COMPLETE, READY FOR SUBMITTAL REVIEW (RP)		DATE		



**FRANK REEDER ROAD**  
ENGINEERING DESIGN  
CROSS SECTIONS (1)

KARLE ANDERSON, P.E. No. 73720  
DATE: \_\_\_\_\_  
PROJECT LOCATION: FRANK REEDER ROAD  
PROJECT NUMBER: PD 21-2302  
PROJECT MANAGER: KARLE ANDERSON, P.E.

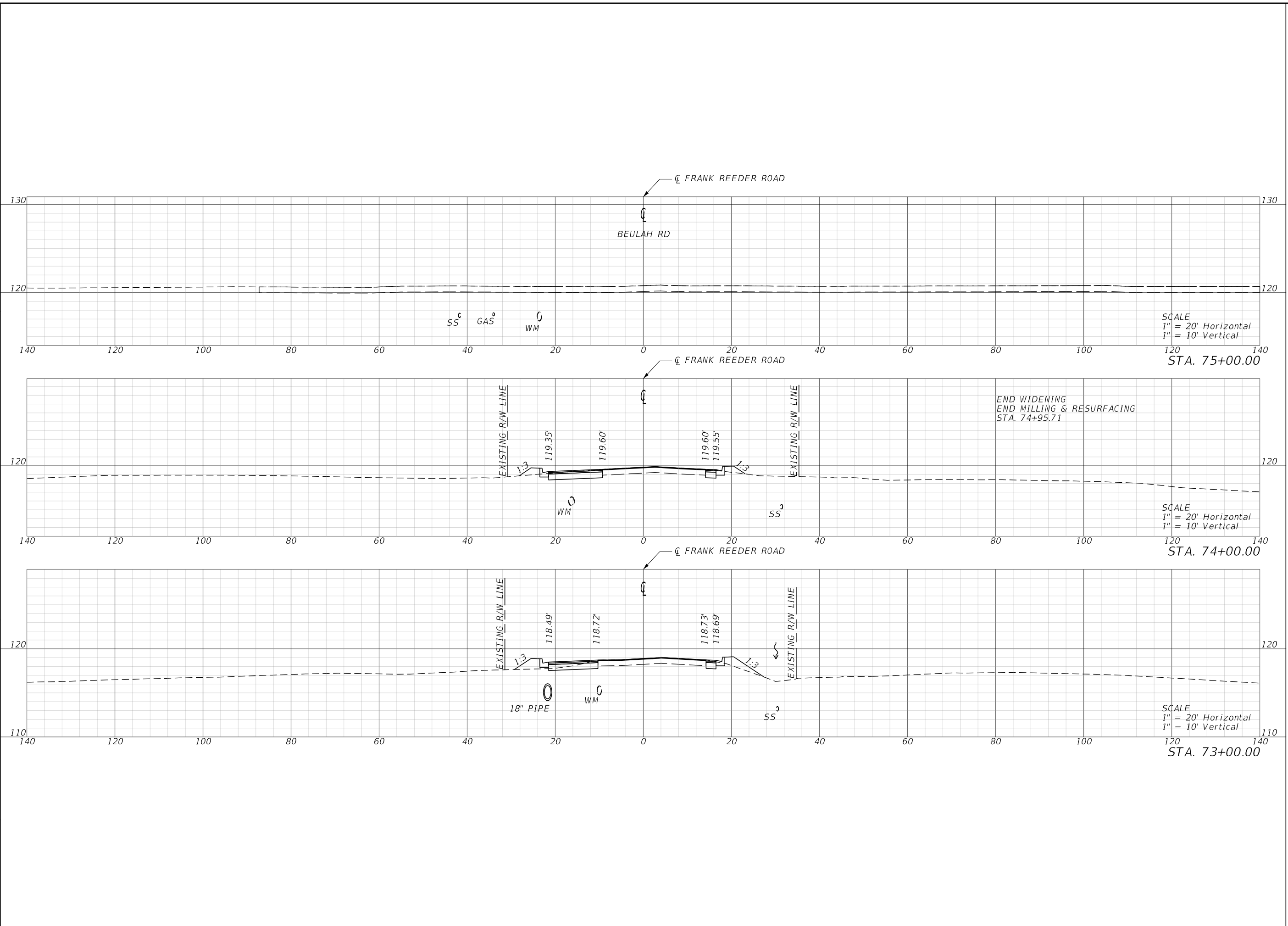
**American CONSULTING**  
4489 WOODBINE ROAD • P.O. Box 37577  
Tallahassee, FL 32317  
Tel 850.289.1000 • Fax 850.289.1001

NUMBER	REVISIONS	DATE	APPROVAL

SHEET 41

c:\p\work\american-pe-01\066188A\RD25000.dwg, December 13, 2023 - 11:42:10 AM, 6400x6

PHASE	REVIEW	DATE	ORIGINATOR (OR)	CHECKER (CP)	DATE	VERIFICATION CHECKER (VC)	REMARK INCORPORATION	DATE
SIGNATURE:								



# FRANK REEDER ROAD

## ENGINEERING DESIGN

### CROSS SECTIONS (2)

KARLE ANDERSON, P.E. No. 73720

DATE: \_\_\_\_\_

PROJECT LOCATION: FRANK REEDER ROAD

PROJECT NUMBER: PD-21-23-02

PROJECT MANAGER: KARLE ANDERSON, P.E.

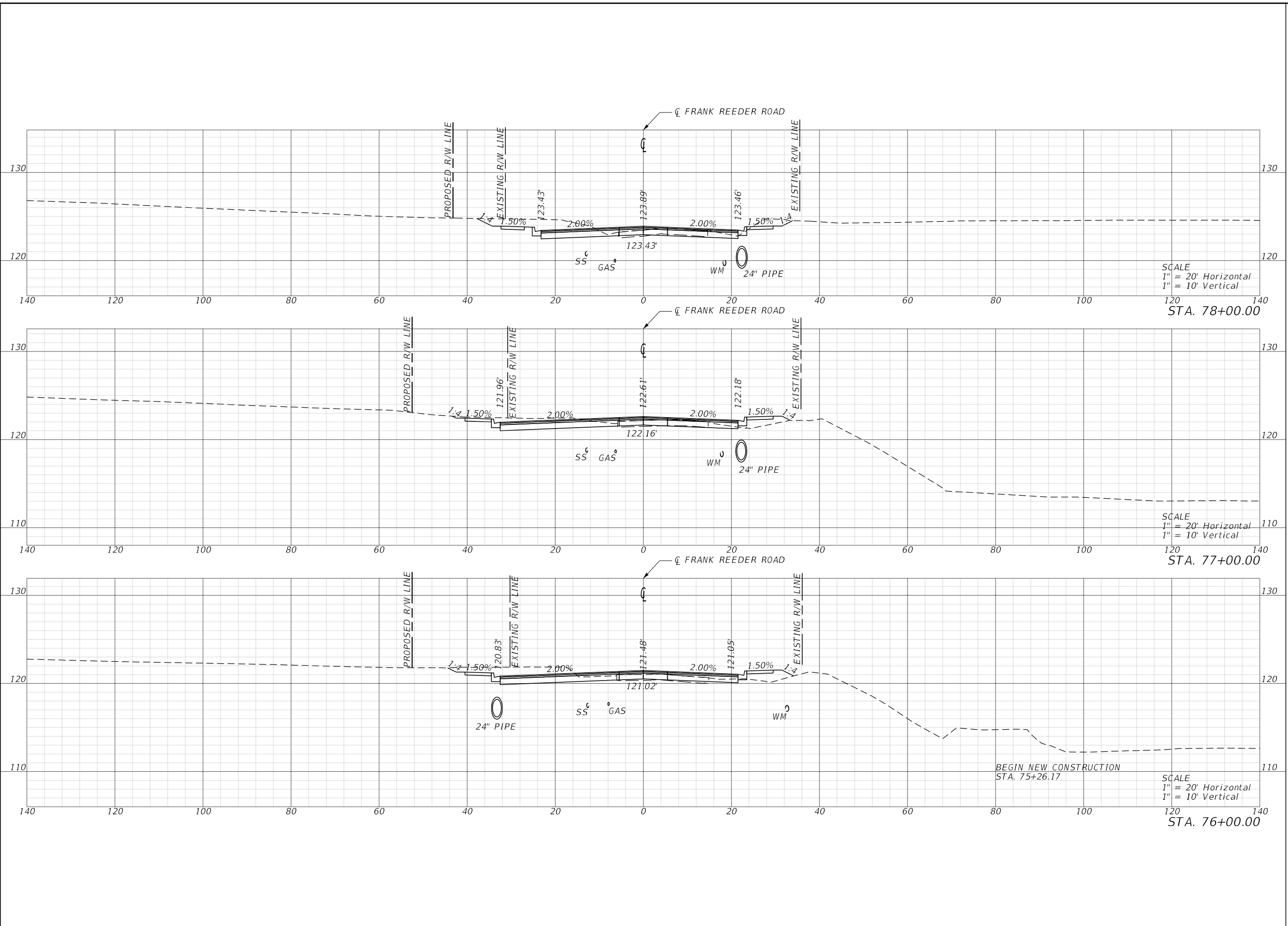
4489 WOODBINE ROAD • P.O. Box 37571  
 Tallahassee, FL 32309 • Tel 904.289.1000 • Fax 904.289.1001

NUMBER	REVISIONS	DATE	APPROVED BY

SHEET 42

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PHASE	REVIEW	DATE	ORIGINATOR (OR)	CHECKER (CP)	VERIFICATION CHECKER (VC)	REMARK INCORPORATION	OPERATOR VERIFICATION	DATE
SIGNATURE:								
CORRECT (Green Highlighter) Change (Red Pen) (Red Pen X-Out to Disappear or Remark) (Blue Highlighter) Correct (Blue Highlighter)								



# FRANK REEDER ROAD

## ENGINEERING DESIGN

### CROSS SECTIONS (3)

KARLE ANDERSON, P.E. No. 7320

DATE: \_\_\_\_\_

PROJECT LOCATION: FRANK REEDER ROAD

PROJECT NUMBER: PD-21-0202

PROJECT MANAGER: KARLE ANDERSON, P.E.

4489 WOODBINE ROAD • P.O. Box 10708 • FLORIDA 32157

Tel 850.289.1000 • Fax 850.289.1001

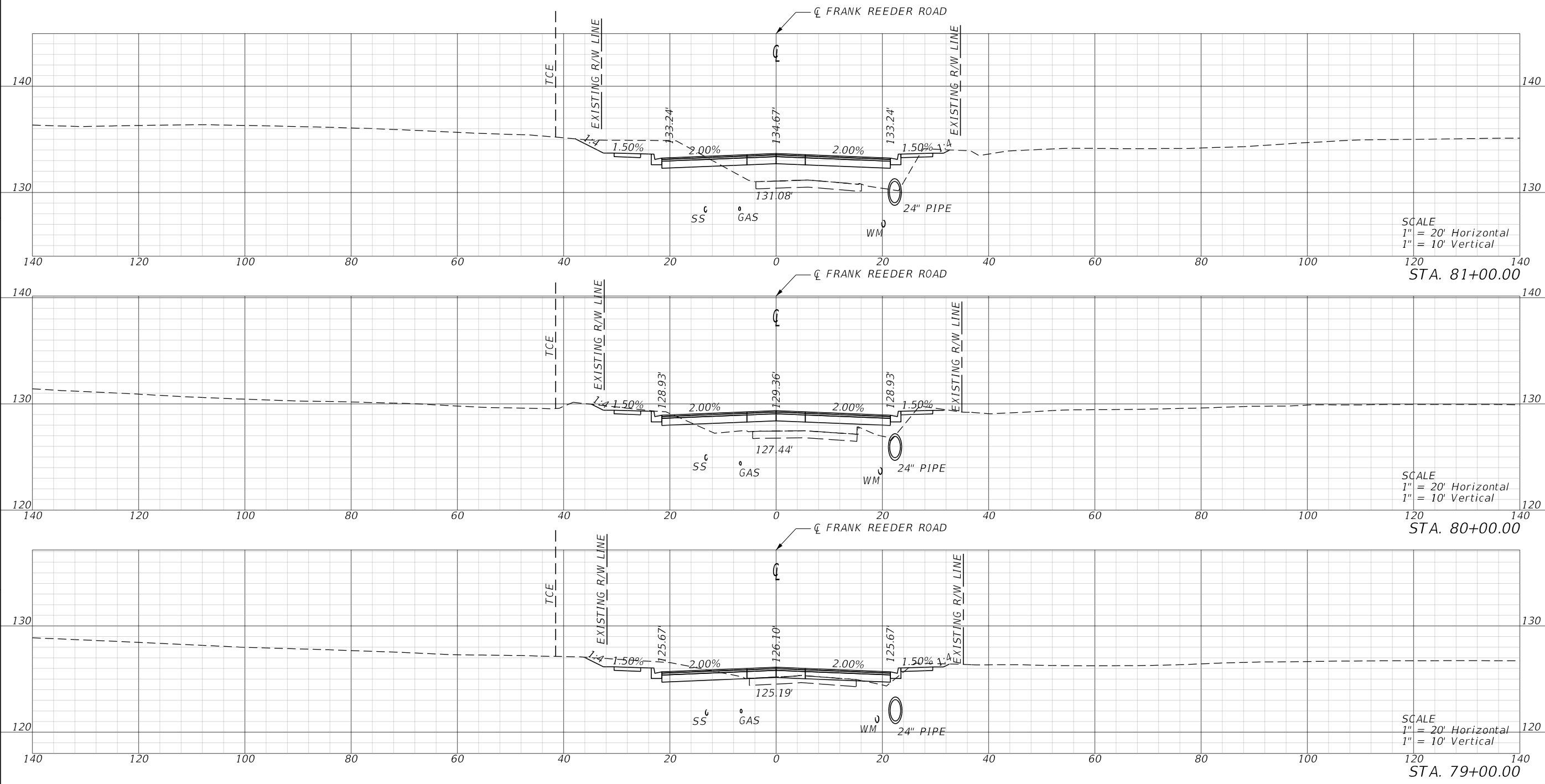
DATE	APPROVED BY

SHEET

43

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PHASE	REVIEW	DATE	ORIGINATOR (OR)	CHECKER (CP)	DATE	VERIFICATION CHECKER (VC)	DATE
SIGNATURE:			ORIGINATOR (OR)		DATE	VERIFICATION CHECKER (VC)	
			CHECKER (CP)		DATE	REMARK INCORPORATION	
			CHANGE INCORPORATION			OPERATOR VERIFICATION	
			CORRECT (Green Highlight) Change (Red Pen)			CORRECT (Red Highlight)	
			REVISION (Red Pen X-Out to Disappear or Remark)			CORRECT (Red Highlight)	
			PRODUCTION CHECKING COMPLETE, READY FOR SUBMITTAL REVIEW (RP)				



# FRANK REEDER ROAD

## ENGINEERING DESIGN

### CROSS SECTIONS (4)

KARLE ANDERSON, P.E. No. 73720

DATE: \_\_\_\_\_

PROJECT LOCATION: FRANK REEDER ROAD

PROJECT NUMBER: PD-21-02-02

PROJECT MANAGER: KARLE ANDERSON, PE

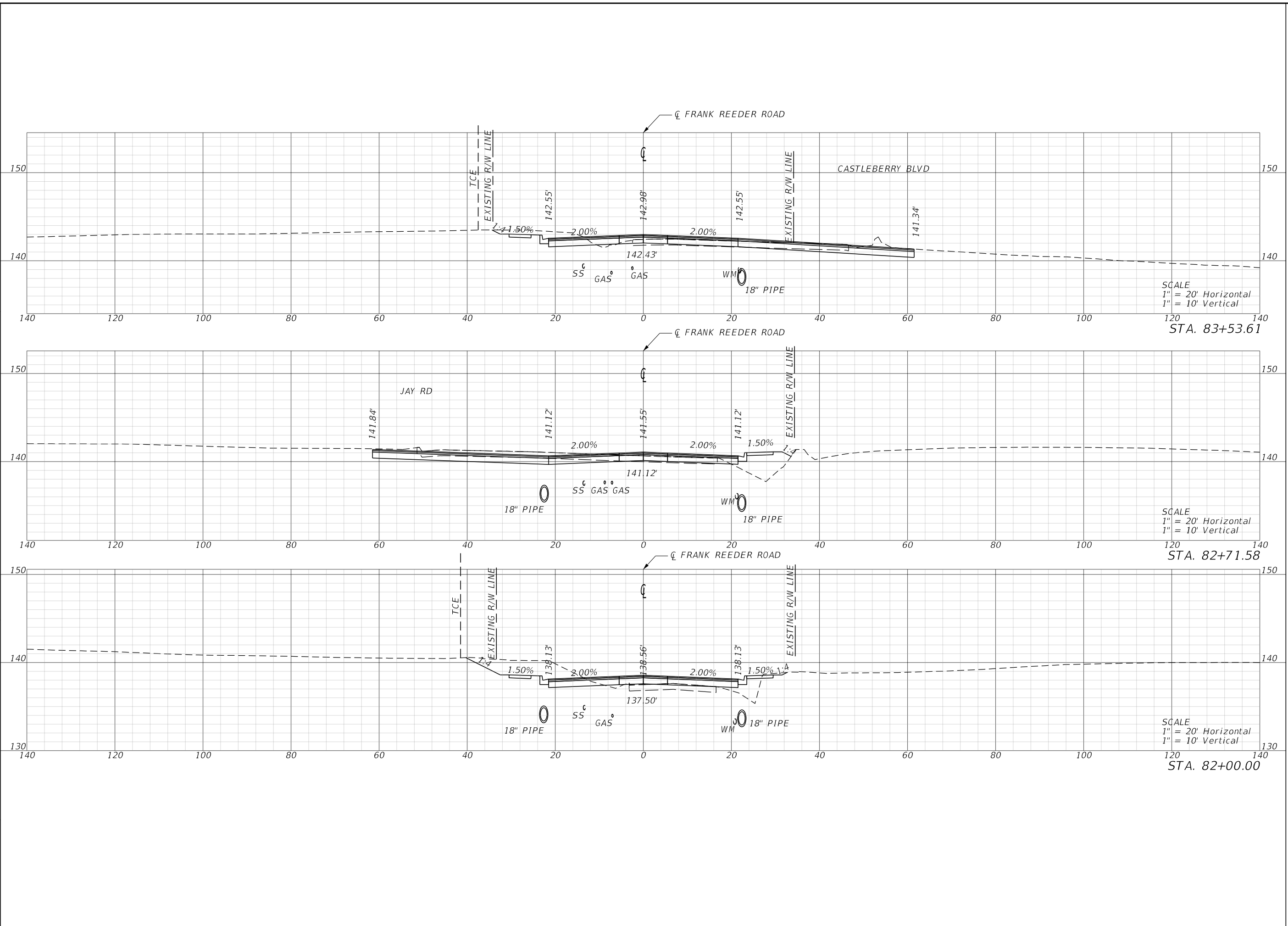
4489 WOODBINE ROAD • P.O. Box 37577  
 Tallahassee, FL 32309 • Tel 904.289.1000 • Fax 904.289.1001

NUMBER	REVISIONS	DATE	APPROVED BY

SHEET 44

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PHASE	REVIEW	DATE	ORIGINATOR (OR)	CHECKER (CP)	DATE	VERIFICATION CHECKER (VC)	REMARK INCORPORATION	DATE
SIGNATURE:								



# FRANK REEDER ROAD

## ENGINEERING DESIGN

### CROSS SECTIONS (5)

KARLE ANDERSON, P.E. No. 73720

DATE: \_\_\_\_\_

PROJECT LOCATION: FRANK REEDER ROAD

PROJECT NUMBER: PD-21-0202

PROJECT MANAGER: KARLE ANDERSON, P.E.

4489 WOODBINE ROAD • P.O. Box 10708 • FLORIDA 32577

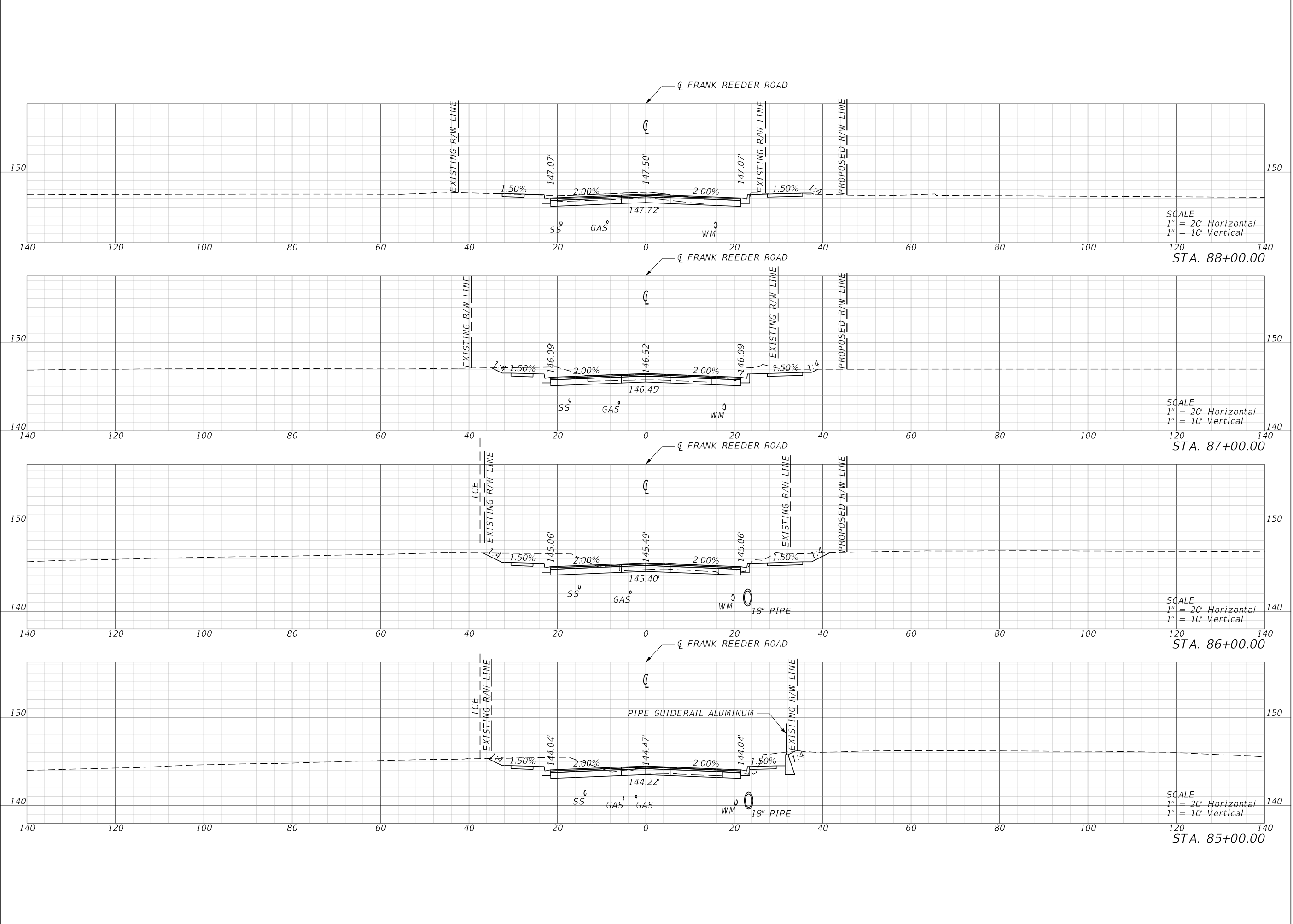
Tel 850.289.1000 • Fax 850.289.1001

NUMBER	REVISIONS	DATE	APPROVED BY

SHEET 45

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PHASE	REVIEW	DATE	ORIGINATOR (PP)	PRODUCTION CHECKING COMPLETE, READY FOR SUBMITAL REVIEW (PP)	DATE	ORIGINATOR (OR)	Correct (Green Highlighter) Change (Red Pen) (Red Pen X-Out to Disapprove or Remark) (Yellow Highlighter)	DATE	VERIFICATION CHECKER (CP)	(Blue Highlighter)	DATE
SIGNATURE:									REMARK INCORPORATION (Blue Highlighter)		
									OPERATOR VERIFICATION (Correct (Red Highlighter))		



# FRANK REEDER ROAD

## ENGINEERING DESIGN

### CROSS SECTIONS (6)

KARLE ANDERSON, P.E. No. 73720

DATE: \_\_\_\_\_

PROJECT LOCATION: FRANK REEDER ROAD

PROJECT NUMBER: PD-21-0202

PROJECT MANAGER: KARLE ANDERSON, P.E.

4489 WOODBINE ROAD • P.O. Box 10708 • FLORIDA 32577

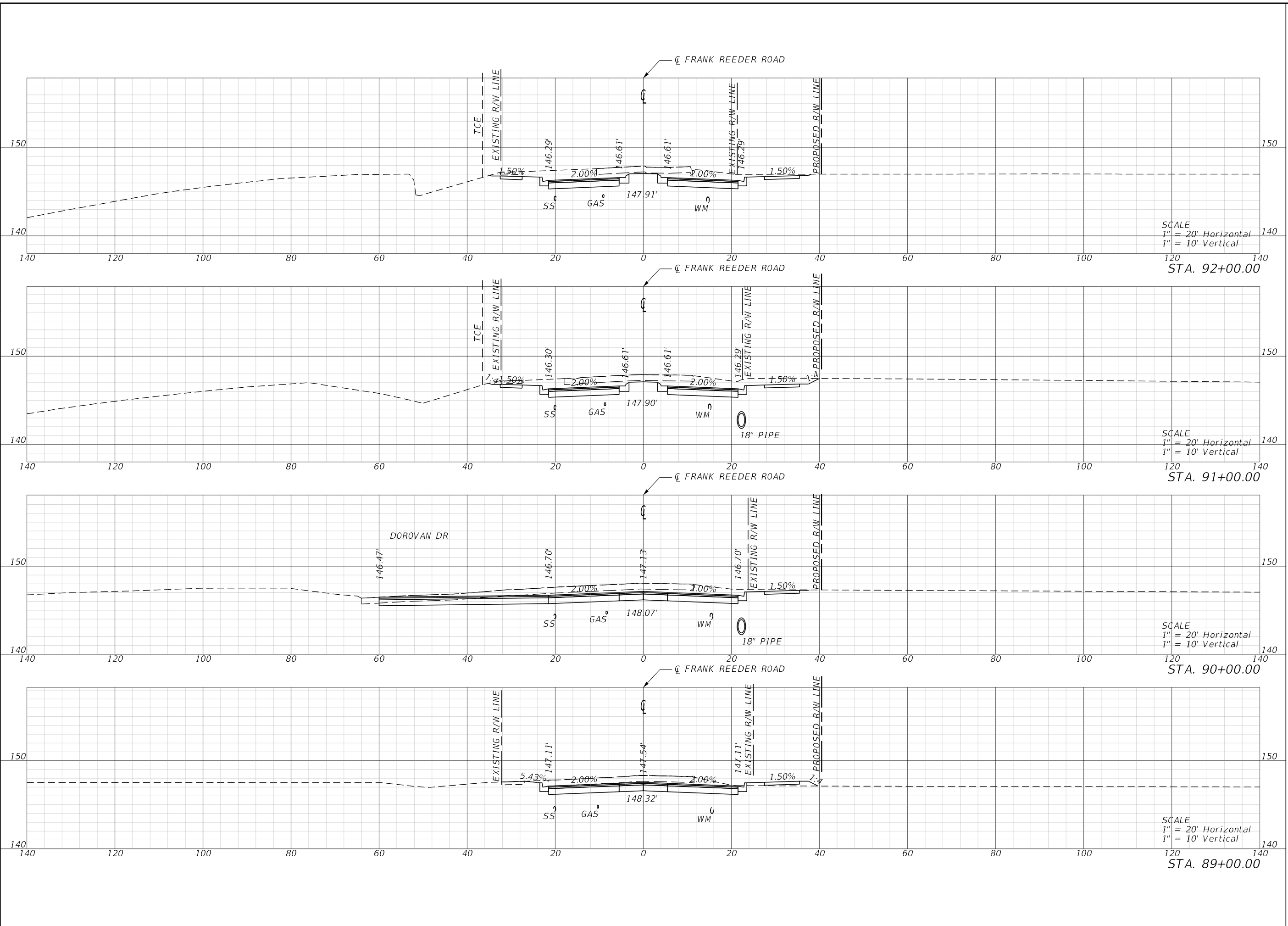
Tel 850.289.1000 • Fax 850.289.1001

NUMBER	REVISIONS	DATE	APPROVED BY

SHEET 46

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PHASE	REVIEW	DATE	ORIGINATOR (OP)	PRODUCTION CHECKING COMPLETE, READY FOR SUBMITTAL REVIEW (PP)	DATE	ORIGINATOR (OR)	Correct (Green Highlight) Change (Red Pen) (Red Pen X-Out to Disapprove or Remark) (Yellow Highlight)	DATE	VERIFICATION CHECKER (VP)	(Blue Highlight) Correct (Blue Highlight)	DATE
SIGNATURE:											



# FRANK REEDER ROAD

## ENGINEERING DESIGN

### CROSS SECTIONS (7)

KARLE ANDERSON, P.E. No. 73720

DATE: \_\_\_\_\_

PROJECT LOCATION: FRANK REEDER ROAD

PROJECT NUMBER: PD-21-2102

PROJECT MANAGER: KARLE ANDERSON, P.E.

4489 WOODBINE ROAD • P.O. Box 10706 • Tallahassee, FL 32317  
Tel 904.289.1000 • Fax 904.289.1001

DATE	APPROVED BY	REVISIONS

SHEET
47

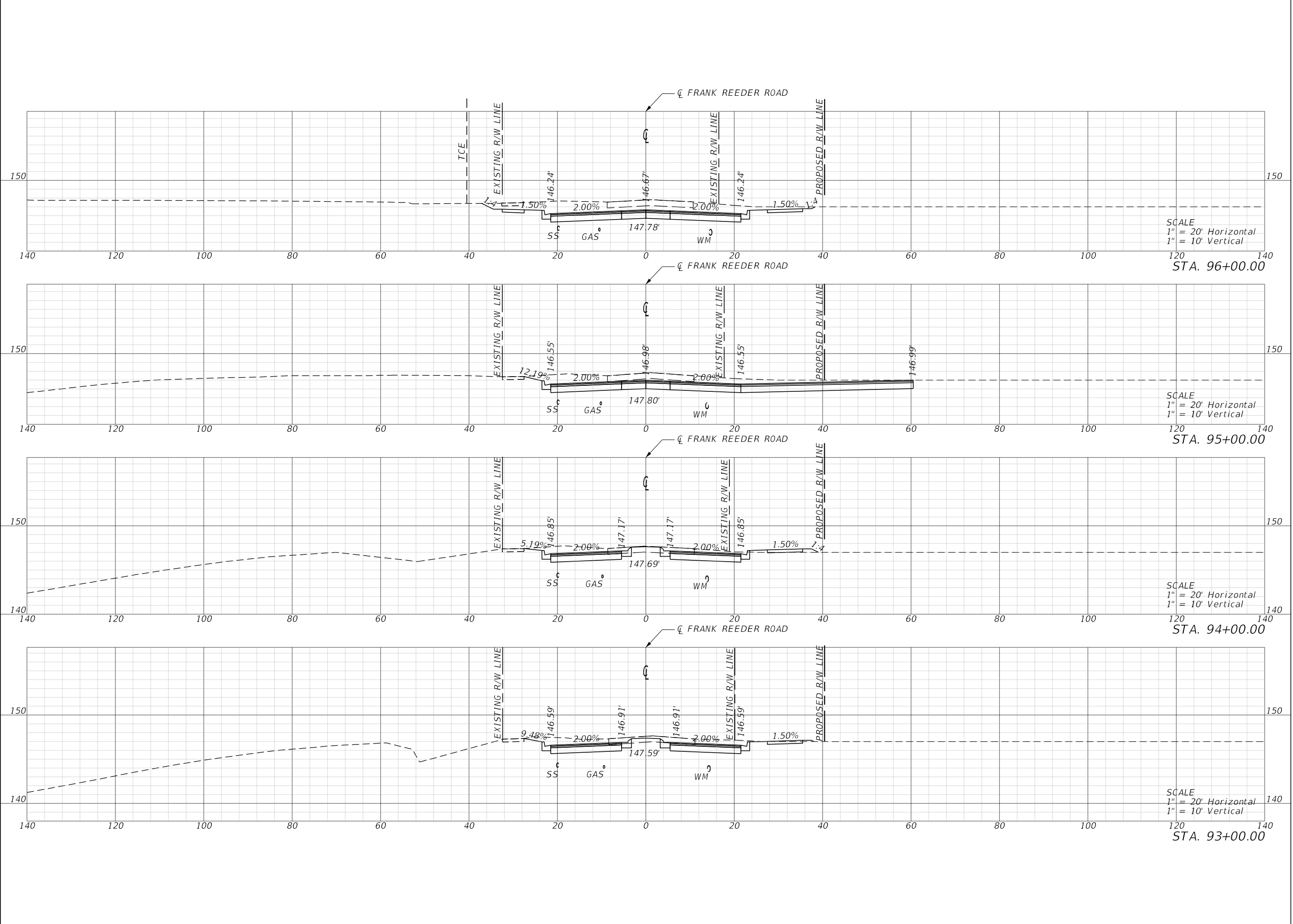
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DATE	ORIGINATOR (OR)	CHECKER (CP)	VERIFICATION CHECKER (VC)
DATE	ORIGINATOR (OR)	CHECKER (CP)	VERIFICATION CHECKER (VC)
DATE	ORIGINATOR (OR)	CHECKER (CP)	VERIFICATION CHECKER (VC)

PHASE REVIEW

SIGNATURE:

REVISIONS:



FRANK REEDER ROAD  
ENGINEERING DESIGN  
CROSS SECTIONS (8)

KARLE ANDERSON, P.E. No. 73720  
DATE: \_\_\_\_\_  
PROJECT LOCATION: FRANK REEDER ROAD  
PROJECT NUMBER: PD-21-0202  
PROJECT MANAGER: KARLE ANDERSON, PE

**American CONSULTING**  
4489 WOODBINE ROAD • P.O. Box 610748 • JACKSONVILLE, FL 32217  
Tel: 904.289.1000 • Fax: 904.289.1001

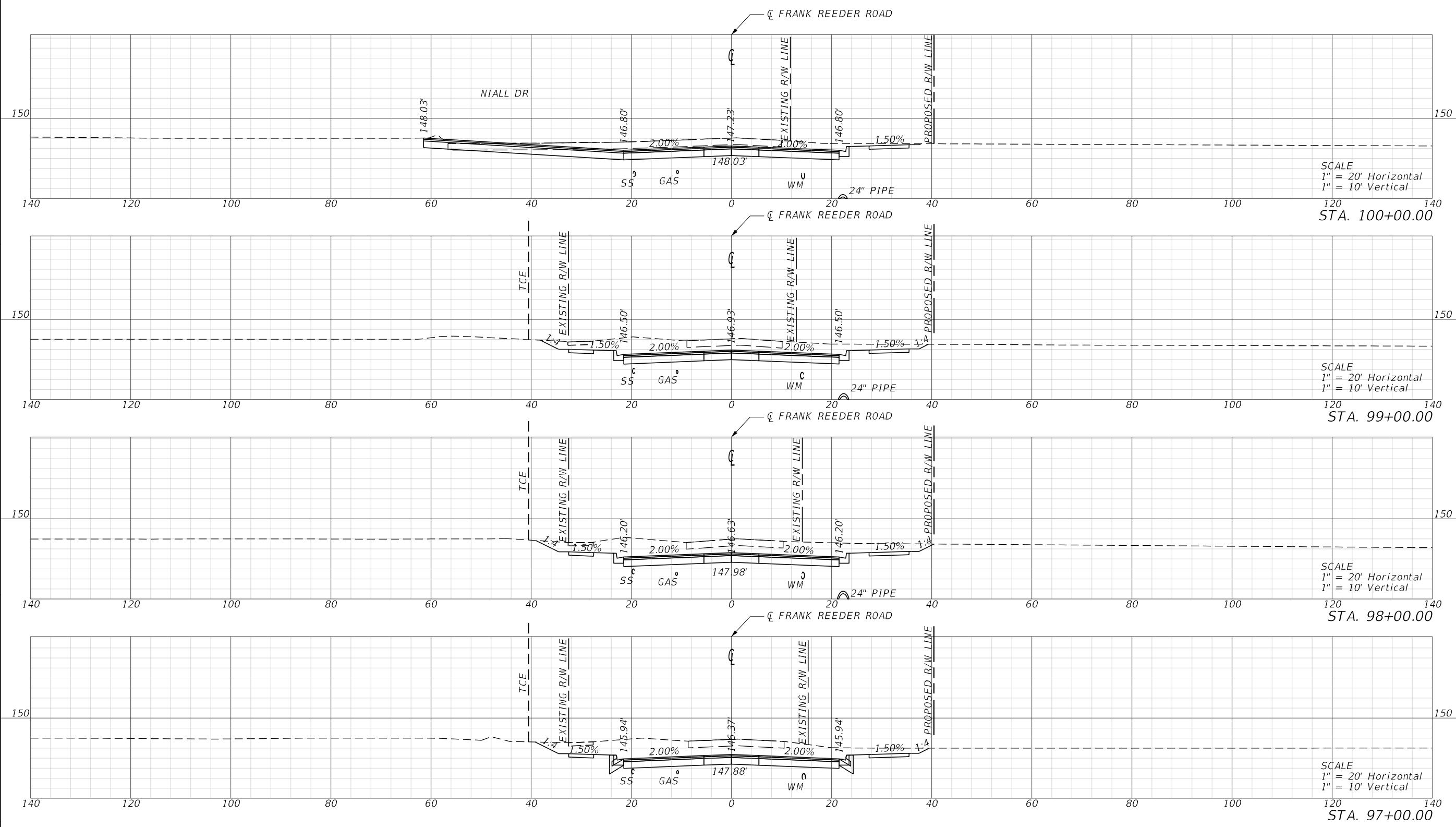
DATE	APPROVAL BY

SHEET 48



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PHASE	REVIEW	DATE	ORIGINATOR (OR)	CHECKER (CP)	OPERATOR (OP)	VERIFICATION CHECKER (VC)	REMARK INCORPORATION	OPERATOR VERIFICATION	DATE
SIGNATURE:									
PRODUCTION CHECKING COMPLETE, READY FOR SUBMITAL REVIEW (PP)									
CHANGE INCORPORATION (Yellow Highlighter)									
Correct (Green Highlighter) Change (Red Pen)									
Red Pen X-Out to Disapprove or Remark									
DATE									
DATE									
DATE									



# FRANK REEDER ROAD

## ENGINEERING DESIGN

### CROSS SECTIONS (9)

KARLE ANDERSON, P.E. No. 73720

DATE: \_\_\_\_\_

PROJECT LOCATION: FRANK REEDER ROAD

PROJECT NUMBER: \_\_\_\_\_

PD 21-2102

7485 WOODBINE ROAD • P.O. Box 37571

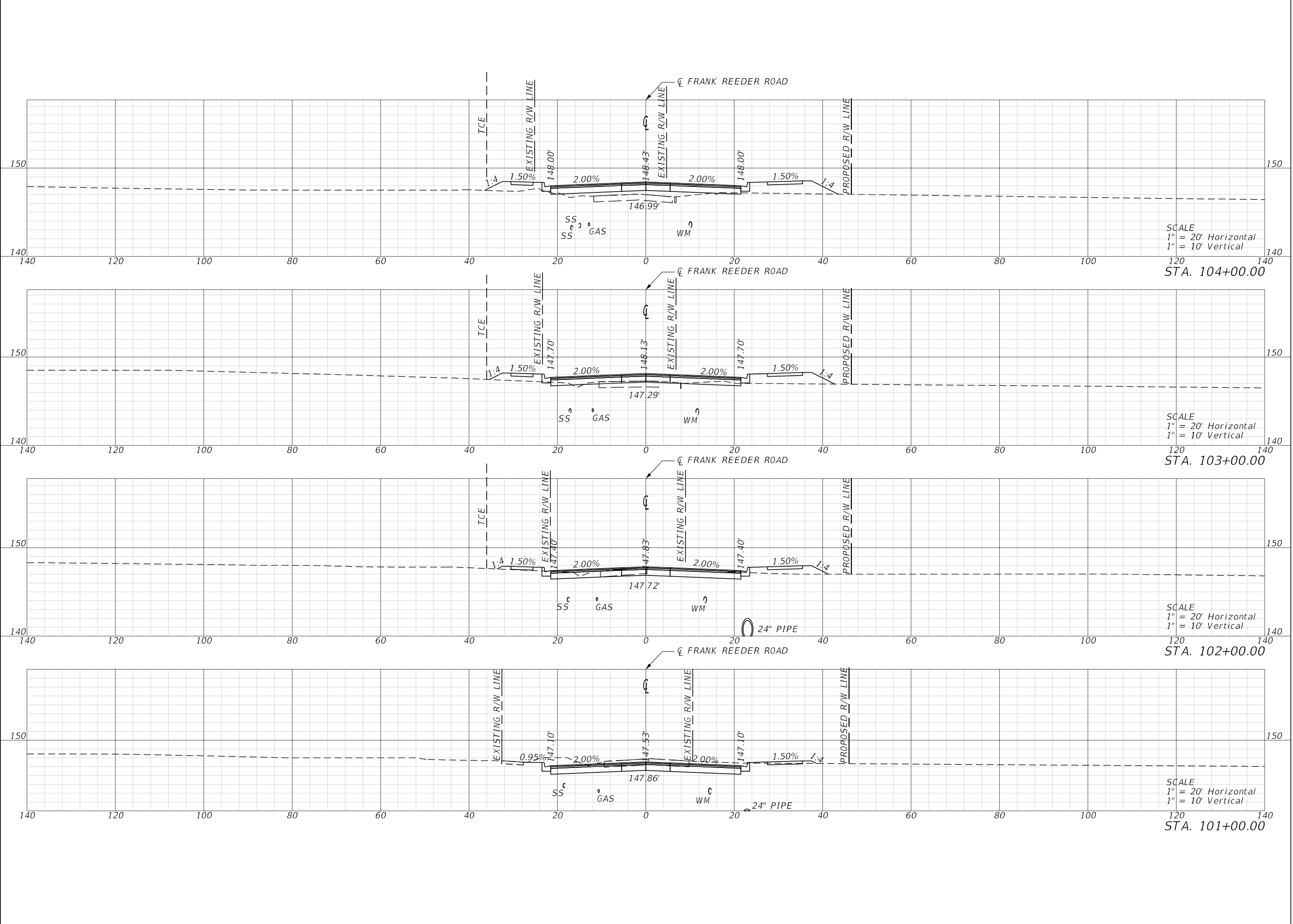
Tel 850.289.1000 • Fax 850.289.1001

NUMBER	REVISIONS	DATE	APPROVED BY

SHEET 49

c:\pva\work\american-pp-01\066188A\0205000.dwg, December 13, 2023 - 11:46:24 AM, 6000x2

PHASE	REVIEW	DATE	ORDINATOR (OR)	CHECKER (CP)	ORDINATOR (OR)	CHECKER (CP)	DATE	VERIFICATION	CHECKER (CP)	DATE
								REMARK INCORPORATION		
								OPERATOR VERIFICATION		
								REMARK INCORPORATION		
								OPERATOR VERIFICATION		



# FRANK REEDER ROAD

## ENGINEERING DESIGN

### CROSS SECTIONS (10)

KARLE ANDERSON, P.E. No. 73720

DATE: \_\_\_\_\_

PROJECT LOCATION: FRANK REEDER ROAD

PROJECT NUMBER: PD-21-2102

PROJECT MANAGER: KARLE ANDERSON, P.E.

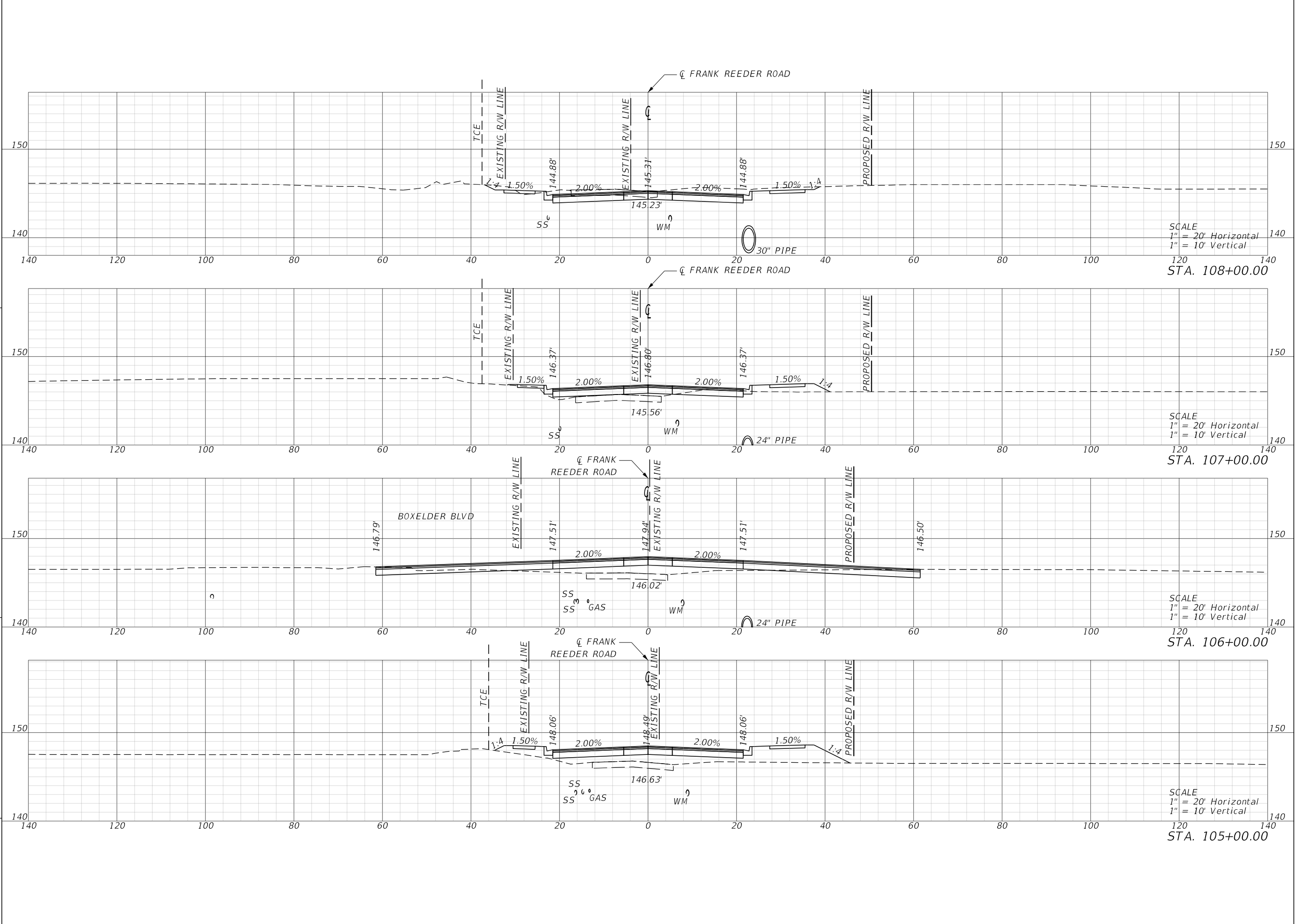
**American CONSULTING**

4489 WOODBINE ROAD • P.O. Box 37571  
 Tallahassee, Florida 32317  
 Tel 904.289.1000 • Fax 904.289.1001

NUMBER	REVISIONS	DATE	APPROVED BY

SHEET 50

PHASE	REVIEW	DATE	OPERATOR	CHECKER	DATE	VERIFICATION	CHECKER	DATE
						REMARK INCORPORATION		
SIGNATURE:						OPERATOR VERIFICATION		



**FRANK REEDER ROAD**  
ENGINEERING DESIGN

CROSS SECTIONS (11)

KARLE ANDERSON, P.E. No. 73720

DATE: \_\_\_\_\_

PROJECT LOCATION:  
FRANK REEDER ROAD

PROJECT NUMBER:  
PD 21-22-002

PROJECT MANAGER:  
KARLE ANDERSON, P.E.

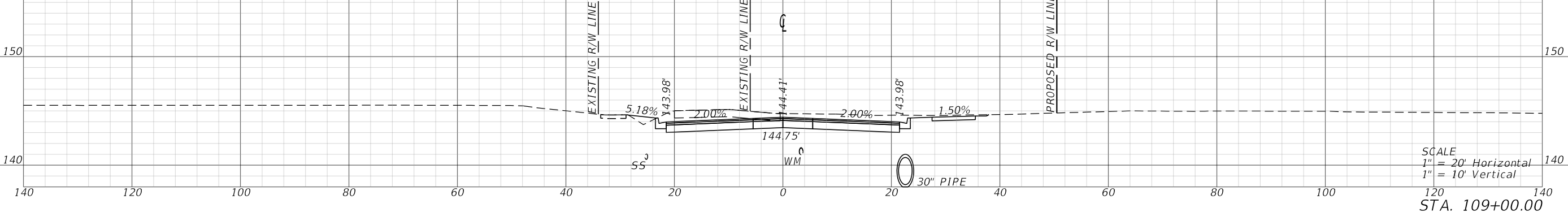
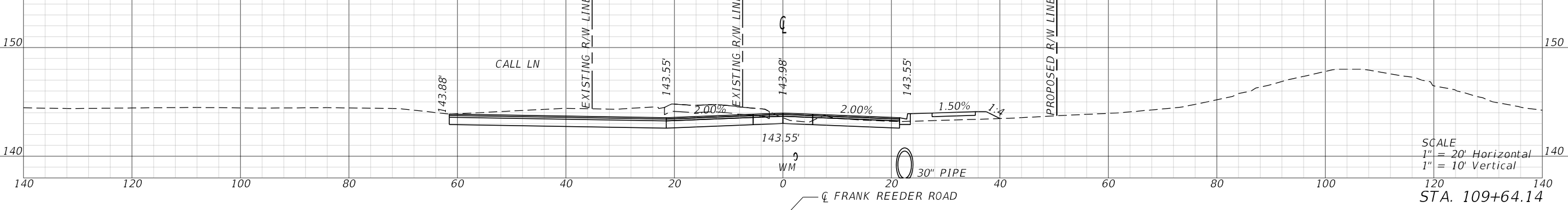
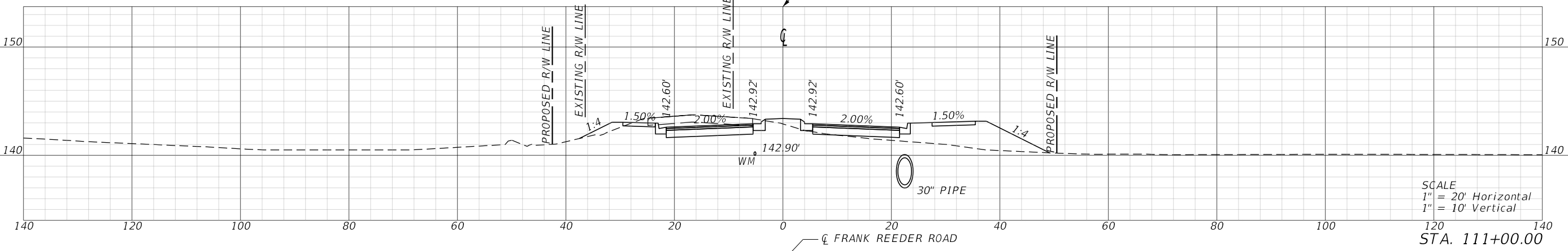
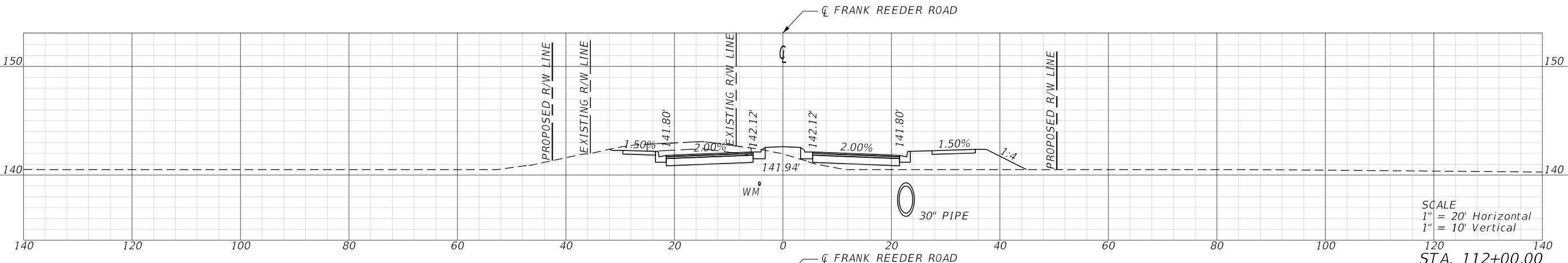
4489 WOODBINE ROAD • P.O. Box 37571  
Tallahassee, FL 32317  
Tel 850.289.1000 • Fax 850.289.1001

DATE	APPROVED BY

SHEET 51

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PHASE	REVIEW	DATE	ORIGINATOR (OR)	CHECKER (CP)	OPERATOR (OP)	VERIFICATION CHECKER (VC)	DATE
SIGNATURE:							
PRODUCTION CHECKING COMPLETE, READY FOR SUBMITTAL REVIEW (PP)							
CHANGE INCORPORATION (Y=New Highlighter)							
CORRECT (Green Highlighter) Change (Red Pen)							
REMARK INCORPORATION (Blue Highlighter)							
OPERATOR VERIFICATION (Red Pen X-Out to Disapprove or Remark)							
CORRECT (Pink Highlighter)							



**FRANK REEDER ROAD**  
ENGINEERING DESIGN  
CROSS SECTIONS (12)



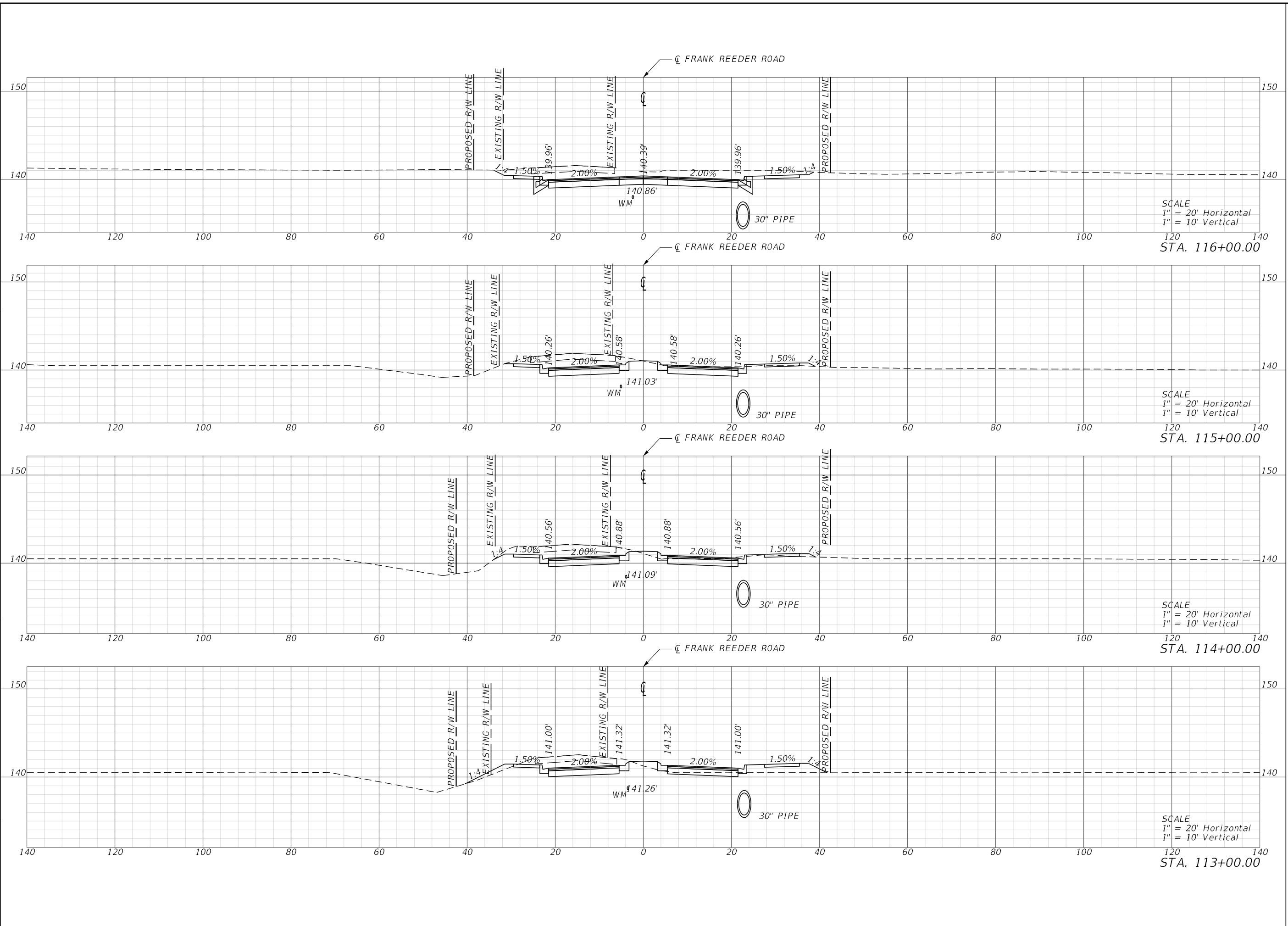
KARLE ANDERSON, P.E. No. 7320  
DATE: \_\_\_\_\_  
PROJECT LOCATION: FRANK REEDER ROAD  
PROJECT NUMBER: PD-21-02-02  
PROJECT MANAGER: KARLE ANDERSON, P.E.



REVISIONS	DATE	APPROVED BY

c:\pva\work\american-pe-01\066188\RD25000.dwg, December 13, 2023 - 11:48:48 AM, 6006EJ

PHASE	REVIEW	DATE	ORIGINATOR (OR)	CHECKER (CP)	OPERATOR (OP)	VERIFICATION CHECKER (VC)	DATE
			Correct (Green Highlight) Change (Red Pen)	(Red Pen X-Out to Disapprove or Remark)	(Blue Highlight)	REMARK INCORPORATION	DATE
SIGNATURE:			PRODUCTION CHECKING COMPLETE, READY FOR SUBMITAL REVIEW (PP)	CHANGE INCORPORATION	Correct (Pink Highlight)	OPERATOR VERIFICATION	DATE



# FRANK REEDER ROAD

## ENGINEERING DESIGN

### CROSS SECTIONS (13)

KARLE ANDERSON, P.E. No. 73720

DATE: \_\_\_\_\_

PROJECT LOCATION: FRANK REEDER ROAD

PROJECT NUMBER: PD-21-0202

PROJECT MANAGER: KARLE ANDERSON, P.E.

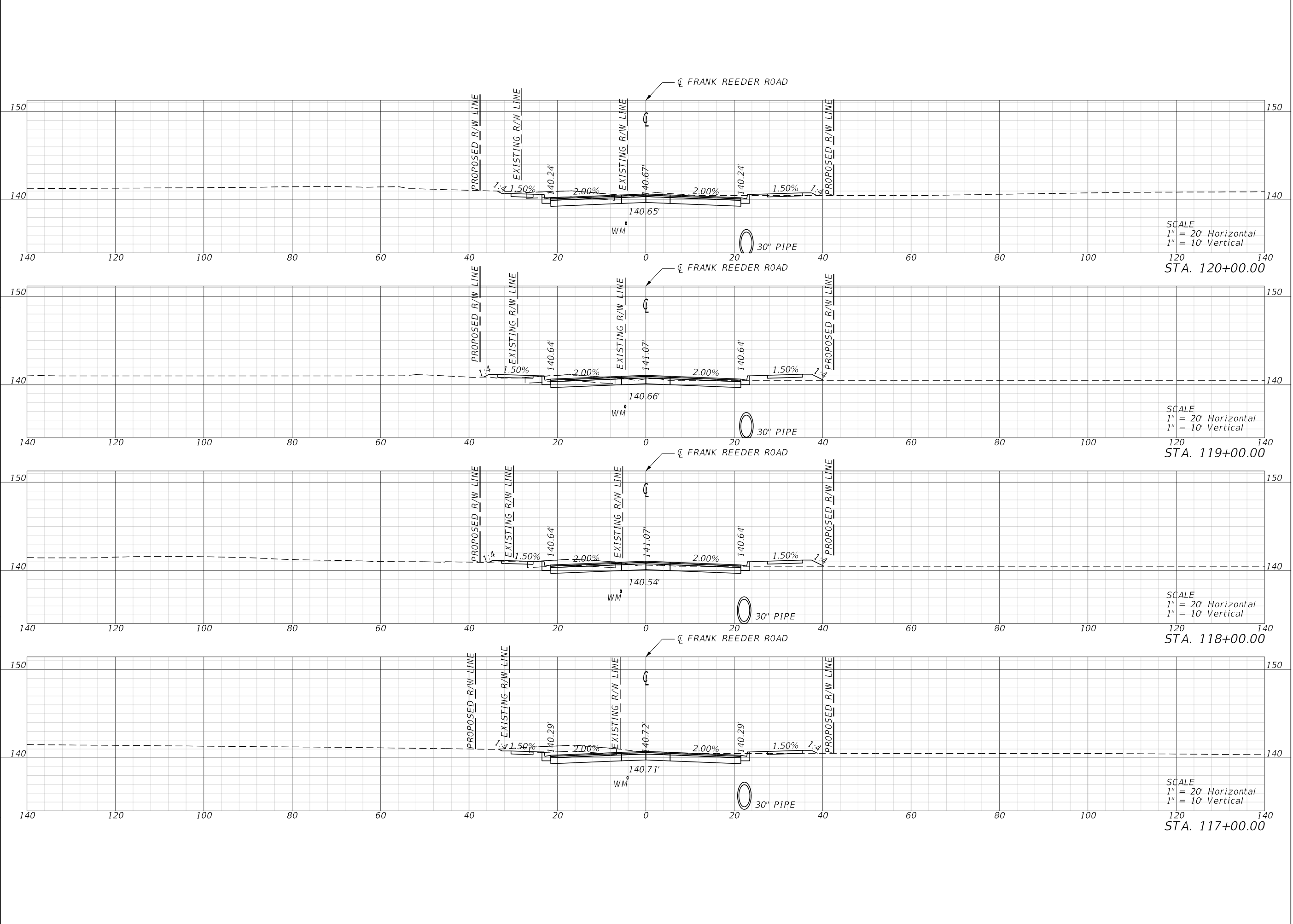
4489 WOODBINE ROAD • P.O. Box 10708 • FORT WORTH, TEXAS 76177  
Tel 850.289.1000 • Fax 850.289.1001

DATE	APPROVAL BY

SHEET 53

c:\pva\_south\american-pe-01\066188\RD25000.dwg, December 13, 2023 - 11:48:48 AM, 6400x6

PHASE	REVIEW	DATE	ORIGINATOR (OR)	CHECKER (CP)	DATE	VERIFICATION CHECKER (VC)	REMARK INCORPORATION	DATE
SIGNATURE:								



# FRANK REEDER ROAD

## ENGINEERING DESIGN

### CROSS SECTIONS (14)

KARLE ANDERSON, P.E. No. 73720

DATE: \_\_\_\_\_

PROJECT LOCATION: FRANK REEDER ROAD

PROJECT NUMBER: PD-21-23-02

PROJECT MANAGER: KARLE ANDERSON, P.E.

4489 WOODBINE ROAD • P.O. Box 37577

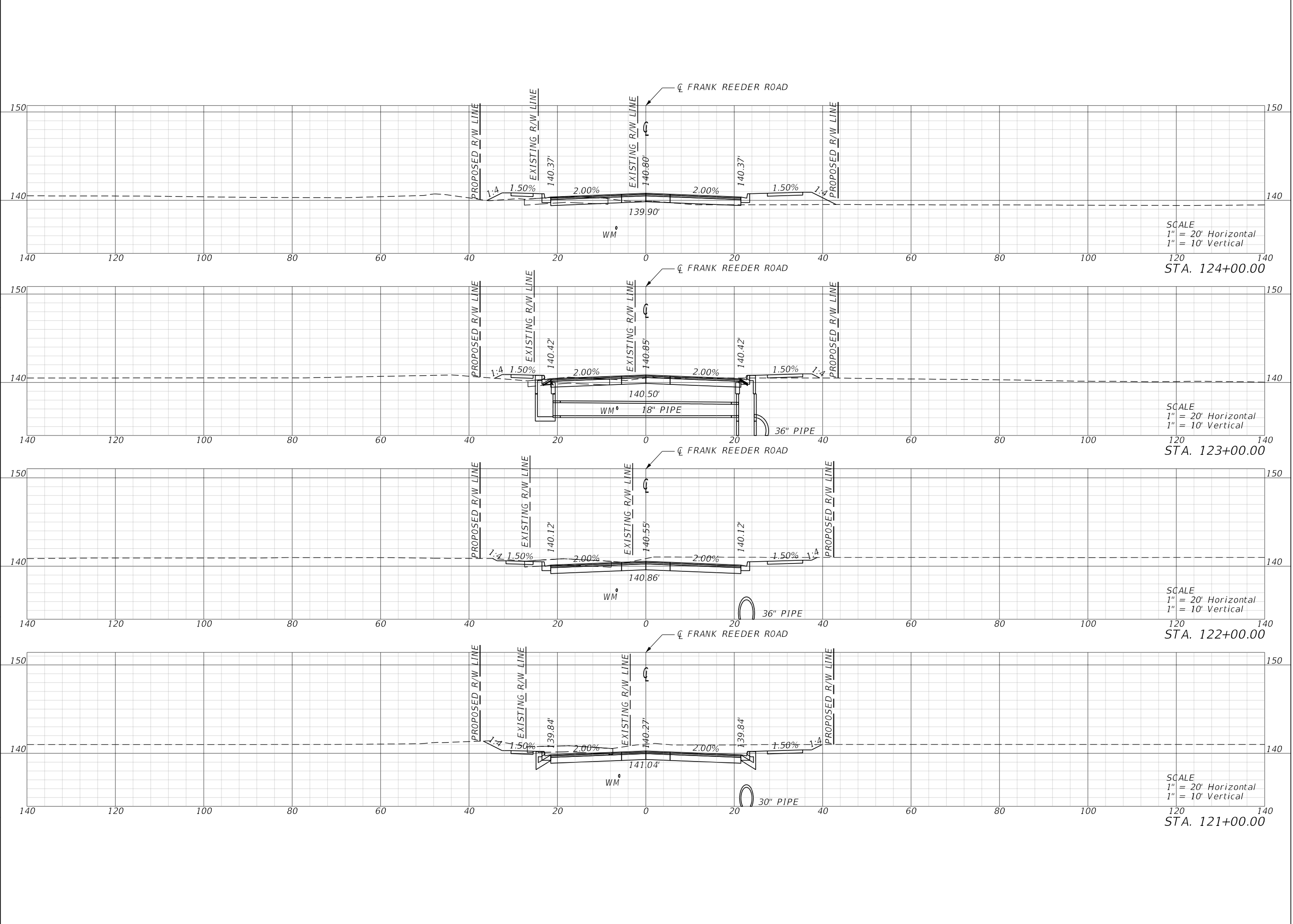
Tel 850.289.1000 • Fax 850.289.1001

NUMBER	REVISIONS	DATE	APPROVED BY

SHEET 54

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PHASE	REVIEW	DATE	ORIGINATOR (OR)	CHECKER (CP)	ORDINATOR (OR)	DATE	VERIFICATION CHECKER (VC)	REMARK INCORPORATION	DATE
SIGNATURE:									



# FRANK REEDER ROAD

## ENGINEERING DESIGN

### CROSS SECTIONS (15)

KARLE ANDERSON, P.E. No. 73720

DATE: \_\_\_\_\_

PROJECT LOCATION: FRANK REEDER ROAD

PROJECT NUMBER: PD-21-2302

PROJECT MANAGER: KARLE ANDERSON, PE

**American CONSULTING**

4489 WOODBINE ROAD • P.O. Box 10708 • FLORIDA 32577

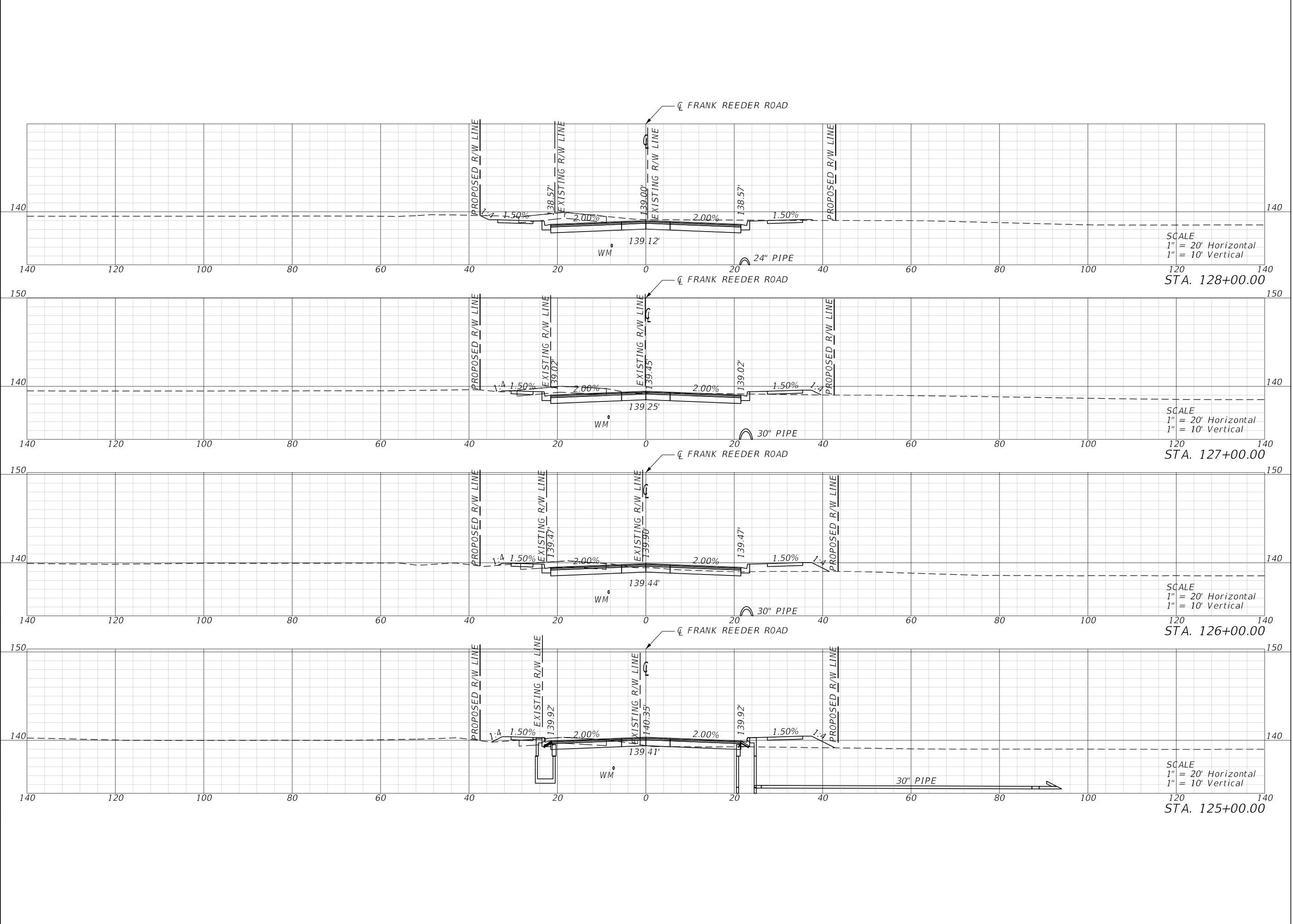
Tel 850.289.1000 • Fax 850.289.1001

NUMBER	REVISIONS	DATE	APPROVED BY

SHEET 55

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PHASE	REVIEW	DATE	ORIGINATOR (OR)	CHECKER (CP)	DATE	VERIFICATION CHECKER (VC)	REMARK INCORPORATION	DATE
SIGNATURE:								



SCALE  
1" = 20' Horizontal  
1" = 10' Vertical  
STA. 128+00.00

SCALE  
1" = 20' Horizontal  
1" = 10' Vertical  
STA. 127+00.00

SCALE  
1" = 20' Horizontal  
1" = 10' Vertical  
STA. 126+00.00

SCALE  
1" = 20' Horizontal  
1" = 10' Vertical  
STA. 125+00.00

**FRANK REEDER ROAD**  
ENGINEERING DESIGN  
CROSS SECTIONS (16)



KARL E. ANDERSON, P.E. No. 73720  
DATE: \_\_\_\_\_  
PROJECT LOCATION: FRANK REEDER ROAD  
PROJECT NUMBER: PD-21-23-02  
PROJECT MANAGER: KARL E. ANDERSON, P.E.

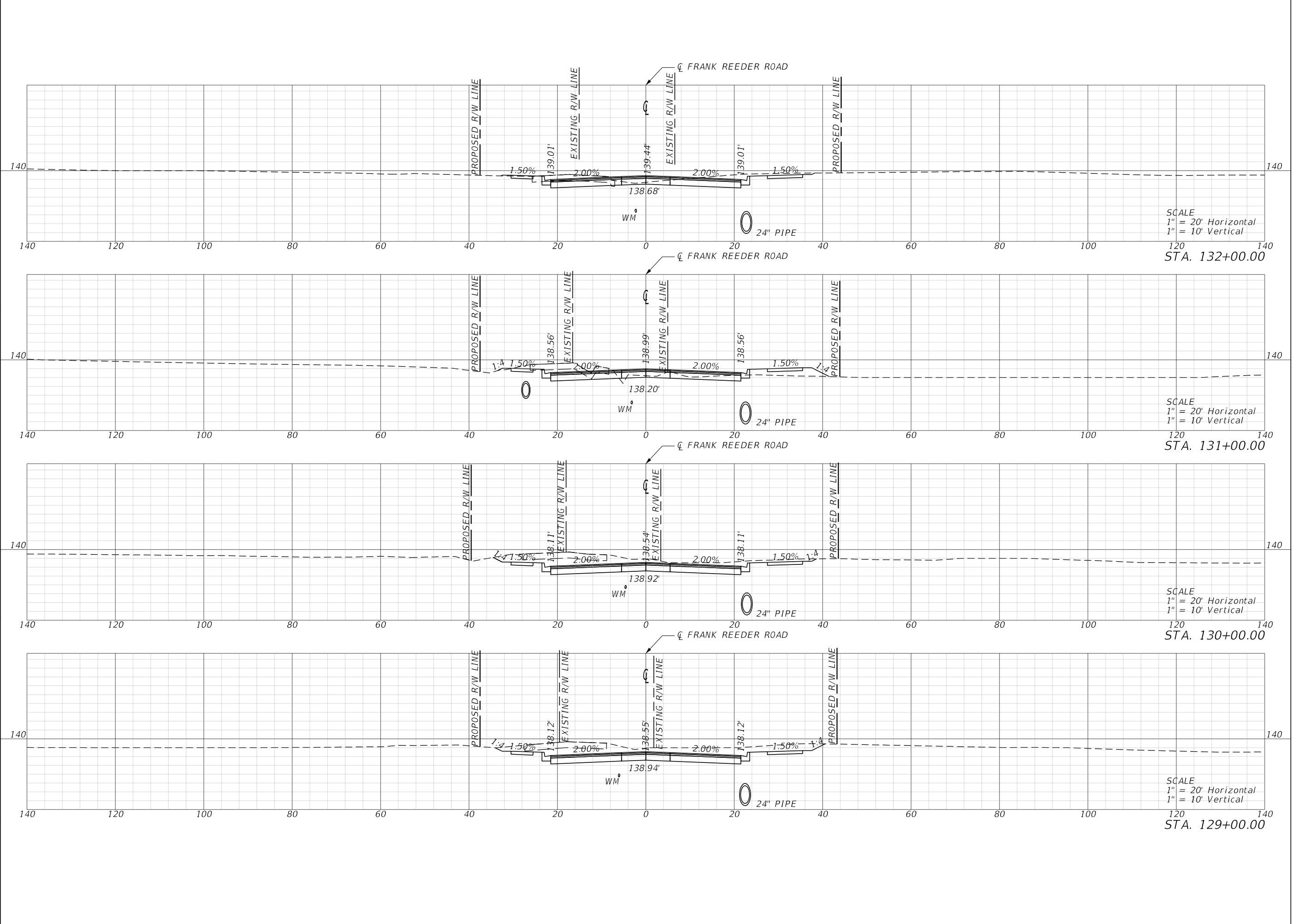


NUMBER	REVISIONS	DATE	APPROVED BY



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PHASE	REVIEW	DATE	ORIGINATOR (OR)	CHECKER (CP)	VERIFICATION CHECKER (VC)	DATE
			Correct (Green Highlight) Change (Red Pen)	Correct (Green Highlight) Change (Red Pen)	Correct (Green Highlight) Change (Red Pen)	
			Red Pen X-Out to Disapprove or Remark	Red Pen X-Out to Disapprove or Remark	Red Pen X-Out to Disapprove or Remark	
SIGNATURE:			ORIGINATOR (OR)	CHECKER (CP)	VERIFICATION CHECKER (VC)	DATE
			PRODUCTION CHECKING COMPLETE, READY FOR SUBMITAL REVIEW (PP)	CHANGE INCORPORATION	OPERATOR VERIFICATION	DATE



# FRANK REEDER ROAD

## ENGINEERING DESIGN

### CROSS SECTIONS (17)

KARLE ANDERSON, P.E. No. 73720

DATE: \_\_\_\_\_

PROJECT LOCATION: FRANK REEDER ROAD

PROJECT NUMBER: PD-21-23P2

PROJECT MANAGER: KARLE ANDERSON, P.E.

**American CONSULTING**

4489 WOODBINE ROAD • P.O. Box 10708 • FLORIDA 32577

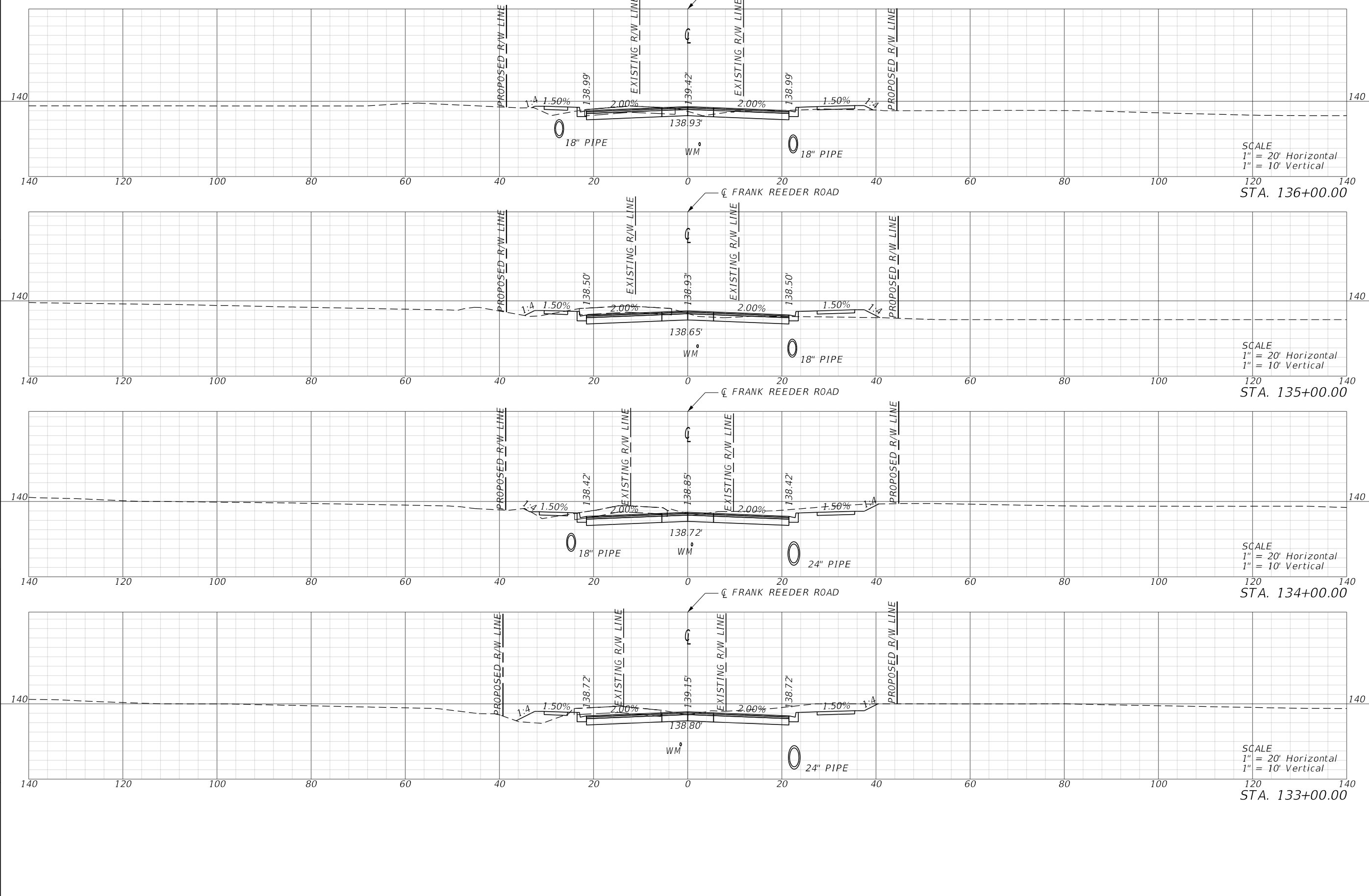
Tel 850.289.1000 • Fax 850.289.1001

NUMBER	REVISIONS	DATE	APPROVED BY

SHEET 57

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PHASE	REVIEW	DATE	ORIGINATOR (OP)	PRODUCTION CHECKING COMPLETE, READY FOR SUBMITAL REVIEW (PP)
			CHECKER (CP)	CHANGE INCORPORATION
			ORIGINATOR (OR)	Correct (Green Highlighter) Change (Red Pen)
			VERIFICATION CHECKER (VP)	REMARK INCORPORATION
			OPERATOR VERIFICATION	Correct (Penc Highlighter)
DATE	DATE	DATE	DATE	DATE



FRANK REEDER ROAD
ENGINEERING DESIGN
CROSS SECTIONS (18)

KARLE ANDERSON, P.E. No. 7320

DATE: \_\_\_\_\_

PROJECT LOCATION:  
FRANK REEDER ROAD

PROJECT NUMBER:  
PD-21-23-02

PROJECT MANAGER:  
KARLE ANDERSON, PE

**American CONSULTING**

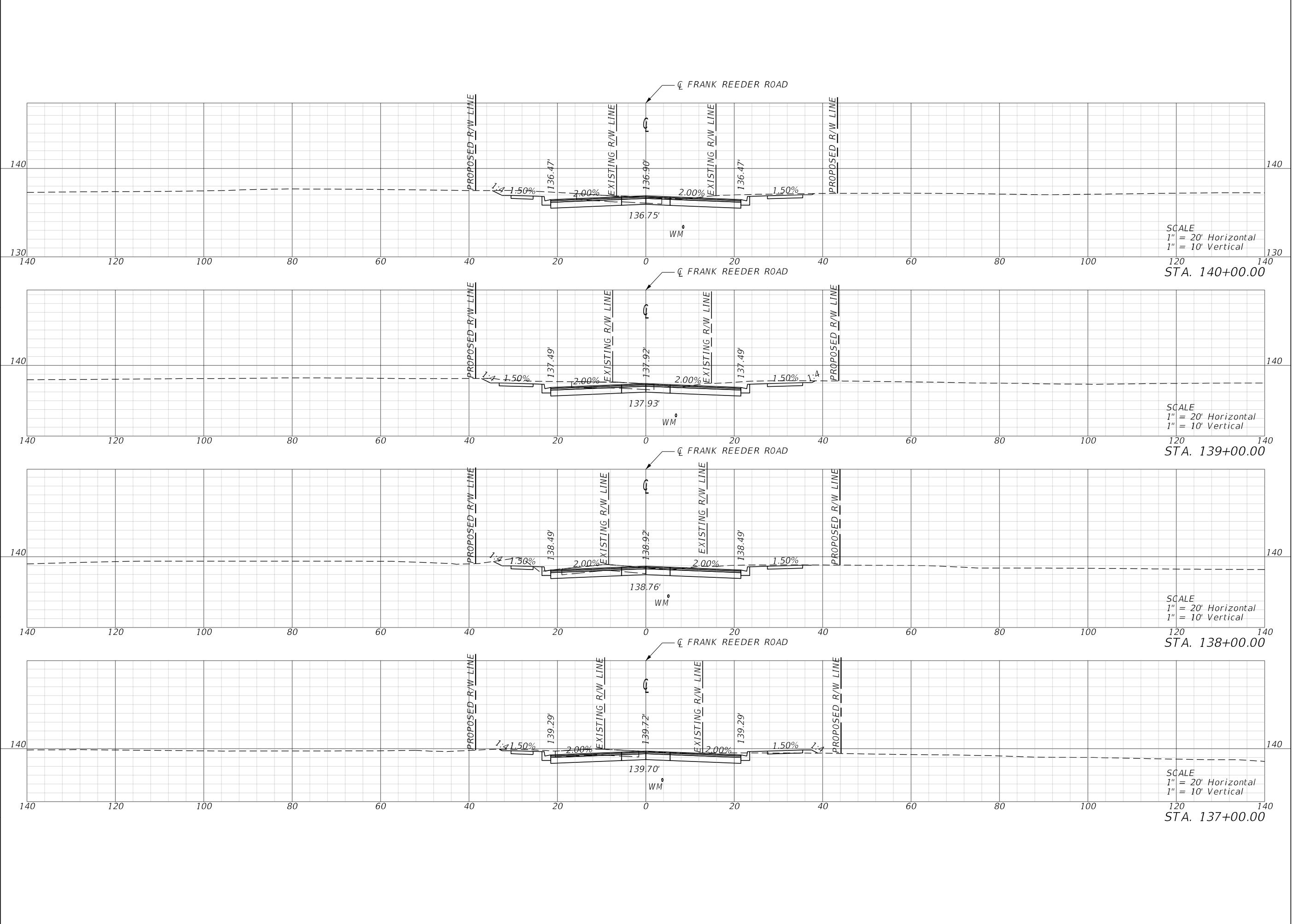
4489 WOODBINE ROAD • P.O. Box 107068 • 32577  
Tel 850.289.1000 • Fax 850.289.1001

NUMBER	REVISIONS	DATE	APPROVED BY

SHEET 58

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PHASE	REVIEW	DATE	ORIGINATOR (OR)	CHECKER (CP)	DATE	VERIFICATION CHECKER (VC)	DATE
			Correct (Green Highlight) Change (Red Pen)	(Red Pen X-Out to Disapprove or Remark)		REMARK INCORPORATION	
SIGNATURE:			ORIGINATOR (OR)	CHECKER (CP)	DATE	VERIFICATION CHECKER (VC)	DATE
			PRODUCTION CHECKING COMPLETE, READY FOR SUBMITAL REVIEW (PP)	CHANGE INCORPORATION		REMARK INCORPORATION	
						REMARK INCORPORATION	
						REMARK INCORPORATION	



# FRANK REEDER ROAD

## ENGINEERING DESIGN

### CROSS SECTIONS (19)

KARLE ANDERSON, P.E. No. 73720

DATE: \_\_\_\_\_

PROJECT LOCATION: FRANK REEDER ROAD

PROJECT NUMBER: PD-21-0202

PROJECT MANAGER: KARLE ANDERSON, P.E.

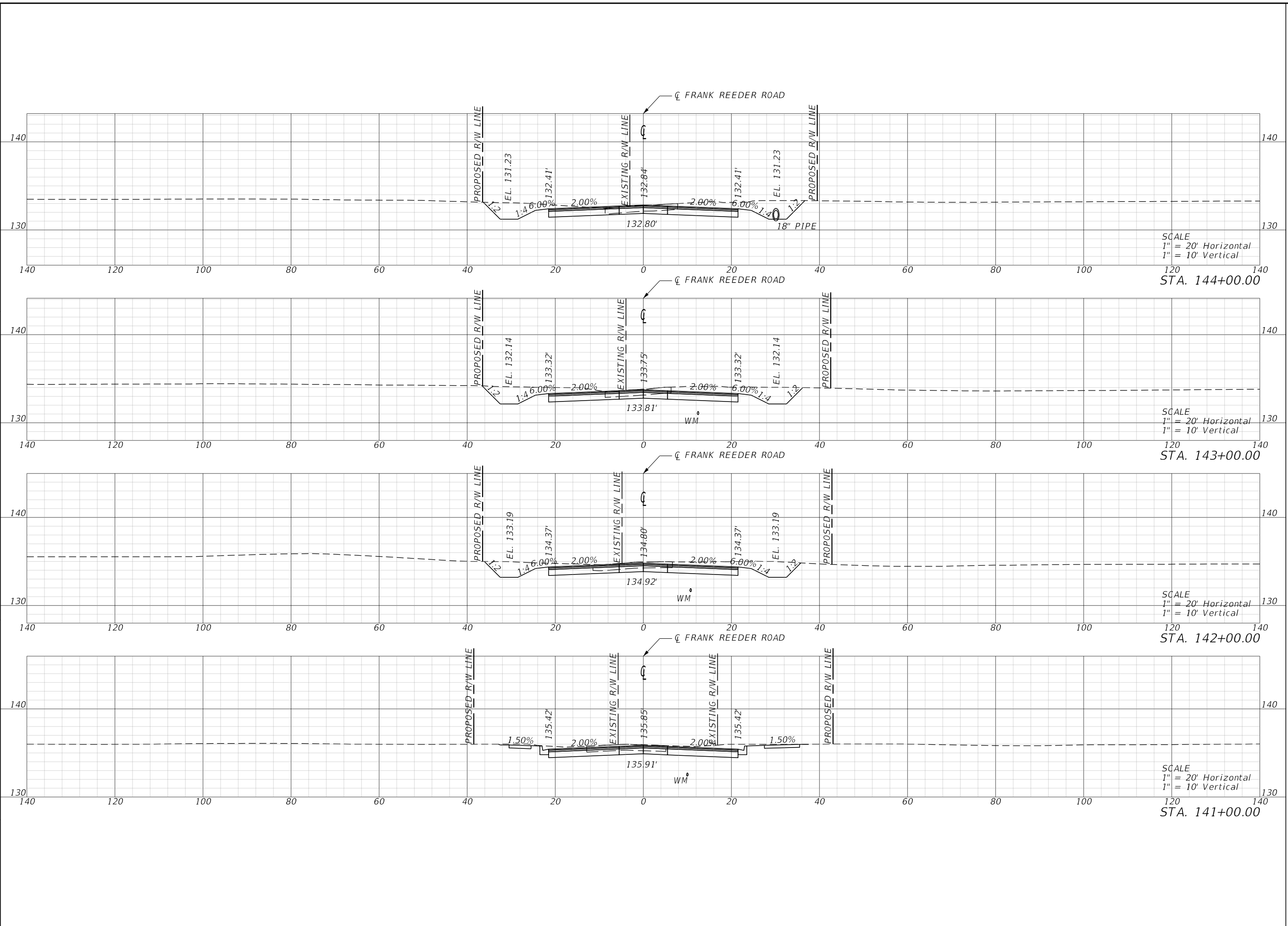
4489 WOODBINE ROAD • P.O. Box 10708 • Tallahassee, FL 32311  
Tel 904.289.1000 • Fax 904.289.1001

DATE	APPROVED BY

SHEET 59

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PHASE	REVIEW	DATE	ORIGINATOR (OR)	CHECKER (CP)	OPERATOR (OP)	VERIFICATION CHECKER (VC)	REMARK INCORPORATION	OPERATOR VERIFICATION	DATE
SIGNATURE:									



**FRANK REEDER ROAD**  
ENGINEERING DESIGN  
CROSS SECTIONS (20)

ESCALABA COUNTY, FLORIDA

KARLE ANDERSON, P.E. No. 73720  
DATE: \_\_\_\_\_  
PROJECT LOCATION: FRANK REEDER ROAD  
PROJECT NUMBER: PD-21-0202  
PROJECT MANAGER: KARLE ANDERSON, P.E.

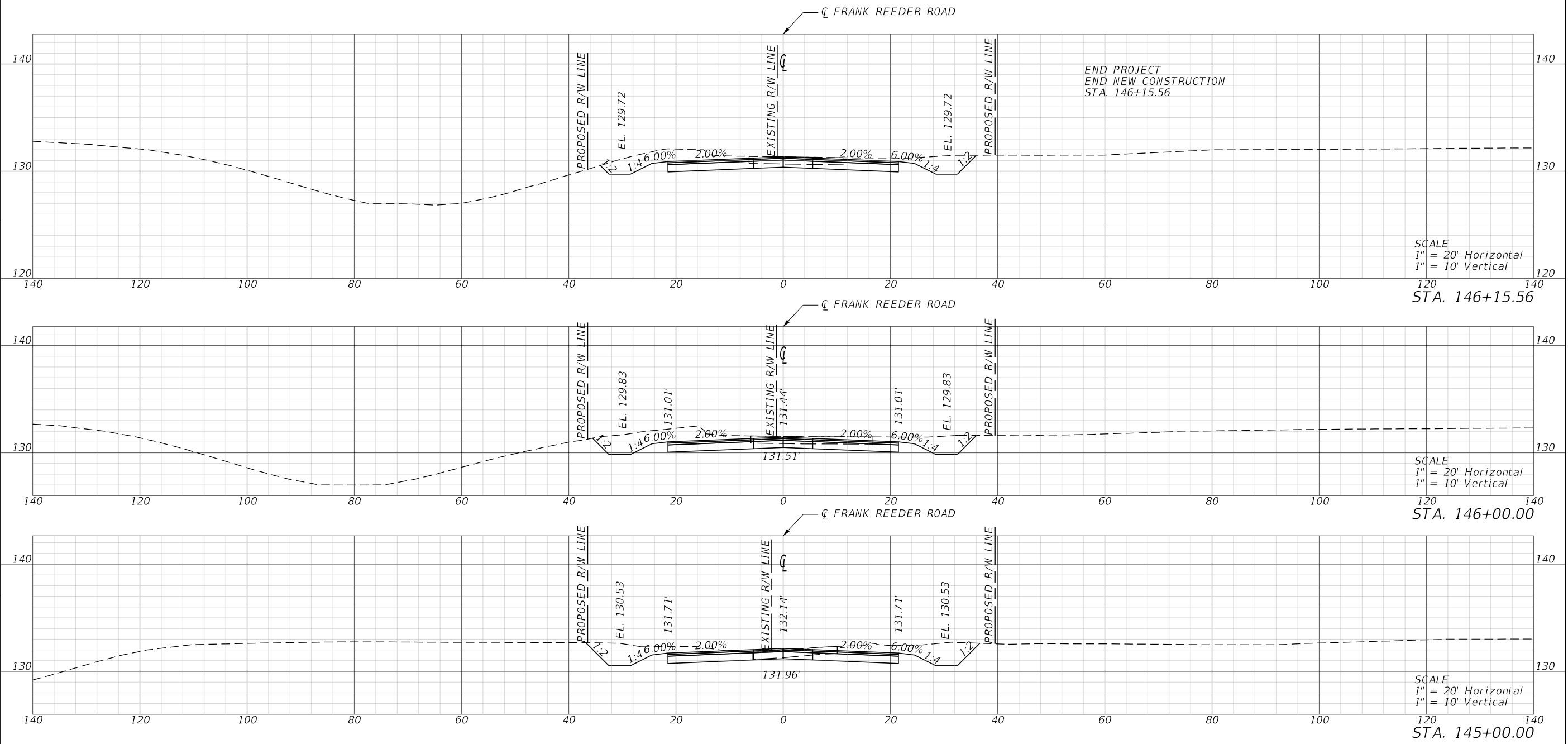
**American CONSULTING**  
4489 WOODBINE ROAD • P.O. Box 37577  
Tel 850.289.1000 • Fax 850.289.1001

NUMBER	REVISIONS	DATE	APPROVED BY

SHEET 60

c:\pva\_wor\american-pa-01\066188A\RD25000.dwg, December 13, 2023 - 11:53:02 AM, 6066EJ

PHASE	REVIEW	DATE	ORIGINATOR (OR)	CHECKER (CP)	VERIFICATION CHECKER (VC)	DATE
			Correct (Green Highlight) Change (Red Pen)	(Red Pen X-Out to Disapprove or Remark)	(Blue Highlighter)	
SIGNATURE:			ORIGINATOR (OR)	CHECKER (CP)	VERIFICATION CHECKER (VC)	DATE
			CHANGE INCORPORATION	(Blue Highlighter)	REMARK INCORPORATION	
			PRODUCTION CHECKING COMPLETE, READY FOR SUBMITAL REVIEW (PF)	(Blue Highlighter)	OPERATOR VERIFICATION	
					Correct (Penc Highlighter)	



SCALE  
1" = 20' Horizontal  
1" = 10' Vertical  
STA. 146+15.56

SCALE  
1" = 20' Horizontal  
1" = 10' Vertical  
STA. 146+00.00

SCALE  
1" = 20' Horizontal  
1" = 10' Vertical  
STA. 145+00.00

**FRANK REEDER ROAD**  
ENGINEERING DESIGN  
CROSS SECTIONS (21)



KARLE ANDERSON, P.E. No. 73720  
DATE: \_\_\_\_\_  
PROJECT LOCATION: FRANK REEDER ROAD  
PROJECT NUMBER: PD-21-23-02  
PROJECT MANAGER: KARLE ANDERSON, P.E.

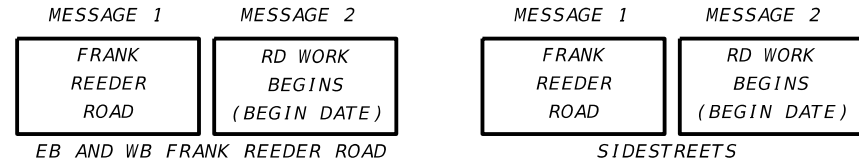


NUMBER	DATE	APPROVED BY

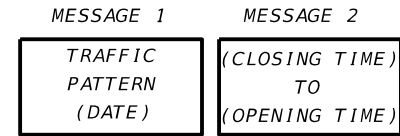
**TEMPORARY TRAFFIC CONTROL PLAN GENERAL NOTES**

1. CONSTRUCTION WORK HOURS SHALL BE FROM 7:30 AM TO 5:00 PM MONDAY THROUGH FRIDAY, EXCEPT COUNTY HOLIDAYS AND WEEEEKENDS. THE CONTRACTOR SHALL REQUEST PERMISSION IN WRITING 24 HRS IN ADVANCE IF THE INTENTION IS TO WORK AT NIGHTTIME AND WEEKENDS. ALL NIGHTTIME LANE CLOSURES MUST BE SUBMITTED TO THE ENGINEER FOR APPROVAL.
2. LANE CLOSURES MAY ONLY BE USED DURING ACTIVE CONSTRUCTION PERIODS.
3. MAINTAIN EXISTING POSTED SPEED LIMITS AT 35 MPH FOR ALL PHASES ON FRANK REEDER ROAD.
4. RELOCATE EXISTING SIGNS LOCATIONS USING INDEX 102-600 (WORK ZONE SIGN SUPPORTS) IMPACTED BY THE PLACEMENT OF THE TEMPORARY PAVEMENT.
5. MANTAIN ACCESS TO DRIVEWAYS UTILIZING COMMERCIAL MATERIAL FOR DRIVEWAY MAINTANCE.
6. WITHIN IN THE WORK ZONE MAINTIAN DROP OFF PER INDEX 102-600 (DROP-OFFS IN WORK ZONES).

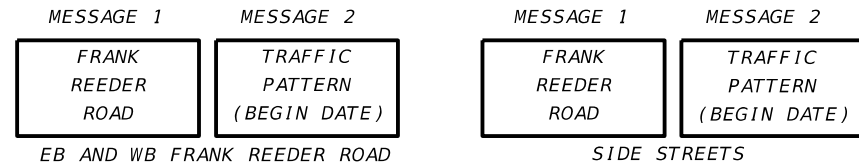
6. PLACE A PORTABLE CHANGEABLE MESSAGE SIGN (PCMS) 200 FT. IN ADVANCE OF WORK ZONE FOR A PERIOD OF SEVEN DAYS PRIOR TO THE FIRST DAY OF CONSTRUCTION. MESSAGE SHOULD READ:



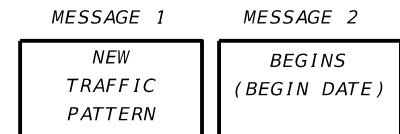
ONE DAY PRIOR TO LANE CLOSURES, THE MESSAGE FOR THE PCMS SHALL READ:



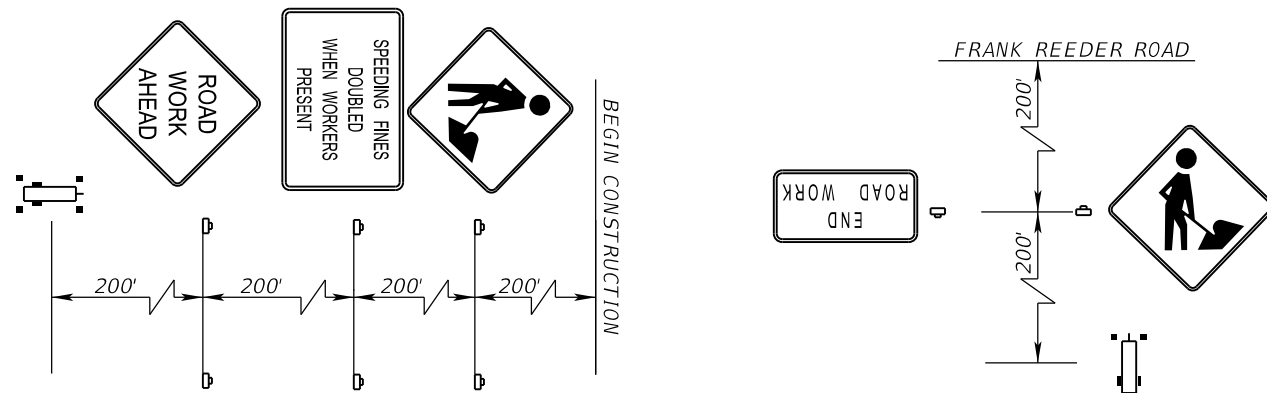
EB AND WB FRANK REEDER ROAD, SIDE STREETS



PRIOR TO CHANGING A TRAFFIC PATTERN, PLACE THE PCMS IN ADVANCE OF THE REVISED PATTERN FOR 7 DAYS WITH THE FOLLOWING MESSAGE:



EB AND WB FRANK REEDER ROAD, SIDE STREETS



ADVANCED SIGNING FRANK REEDER ROAD

ADVANCED SIGNING SIDE STREETS

**ADVANCED WARNING SIGNS DETAIL**

**LEGEND**

- TEMPORARY TRAFFIC CONTROL SIGNS
- PORTABLE CHANGABLE (VARIABLE) MESSAGE SIGN
- CHANNELIZING DEVICE
- WORK ZONE SIGNS

PHASE	REVIEW	DATE	ORIGINATOR (OR)	CHECKER (CP)	CHANGE INCORPORATION	DATE	ORIGINATOR (OR)	CHECKER (CP)	CHANGE INCORPORATION	DATE	ORIGINATOR (OR)	CHECKER (CP)	CHANGE INCORPORATION	DATE

**FRANK REEDER ROAD**  
ENGINEERING DESIGN  
TTCP (GENERAL NOTES)



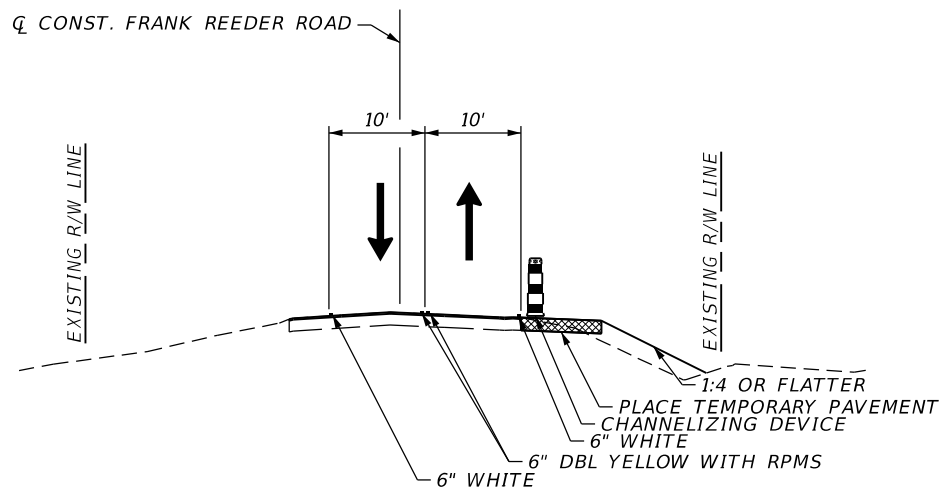
KARLE ANDERSON, P.E. No. 73720  
DATE: \_\_\_\_\_  
PROJECT LOCATION: FRANK REEDER ROAD  
PROJECT NUMBER: PD-21-2302  
PROJECT MANAGER: KARLE ANDERSON, PE



REVISIONS	DATE	APPROVAL

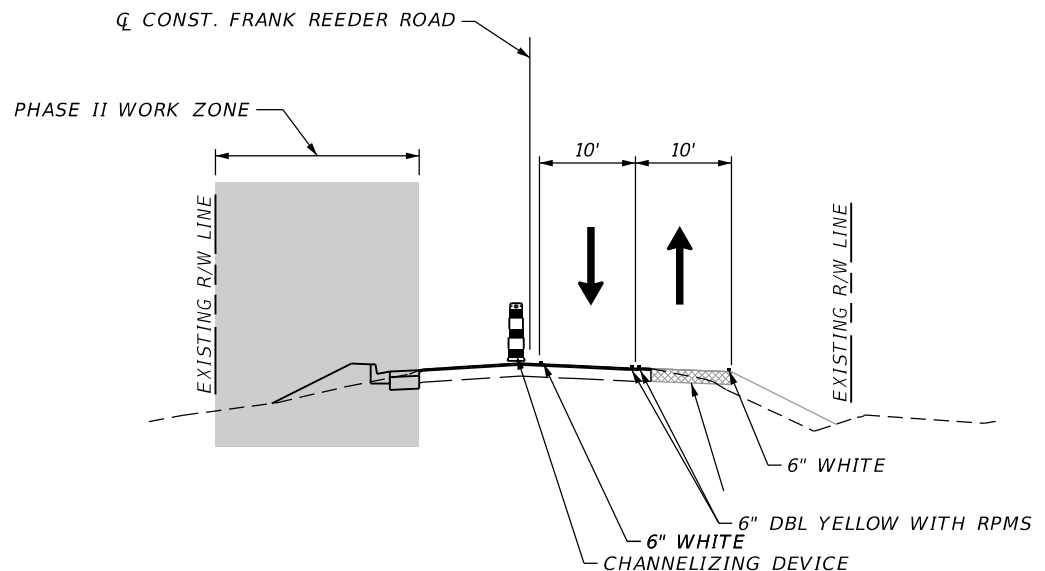
c:\pwwork\american-pe-01\d65188\17170100.dwg, December 6, 2023 - 2:15:59 PM, 5940662

PHASE	REVIEW	DATE	ORIGINATOR (OR)	CHECKER (CP)	VERIFICATION CHECKER (VC)	DATE
SIGNATURE:			ORIGINATOR (OR)	CHECKER (CP)	VERIFICATION CHECKER (VC)	DATE
			ORIGINATOR (OR)	CHECKER (CP)	VERIFICATION CHECKER (VC)	DATE
			ORIGINATOR (OR)	CHECKER (CP)	VERIFICATION CHECKER (VC)	DATE
			ORIGINATOR (OR)	CHECKER (CP)	VERIFICATION CHECKER (VC)	DATE



**PHASE I TYPICAL SECTION (1)**  
 TYPICAL SECTION SHOWN AT  
 STATION 71+00.00 Q CONST. FRANK REEDER ROAD  
 STA. 70+24.22 TO STA. 74+56.19

- PHASE I - MILL AND RESURFACE, TEMPORARY STRIPING, AND TEMPORARY PAVEMENT
1. PLACE ADVANCE WARNING SIGNS FOR PHASE I ON SIDESTREETS PER THE ADVANCE WARNING SIGN DETAIL.
  2. MILL AND RESURFACE EXISTING LANES. NO FRICTION COURSE TO BE PLACED IN THIS PHASE.
  3. REMOVE CONFLICTING STRIPING, PLACE STRIPING AS SHOWN IN PHASE I TYPICAL SECTION (1). SHIFT TRAFFIC TO LANE CONFIGURATION SHOWN ON PHASE I TYPICAL SECTION (1). USING INDEX 102-603.
  4. PLACE TEMPORARY PAVEMENT USING INDEX 102-603.



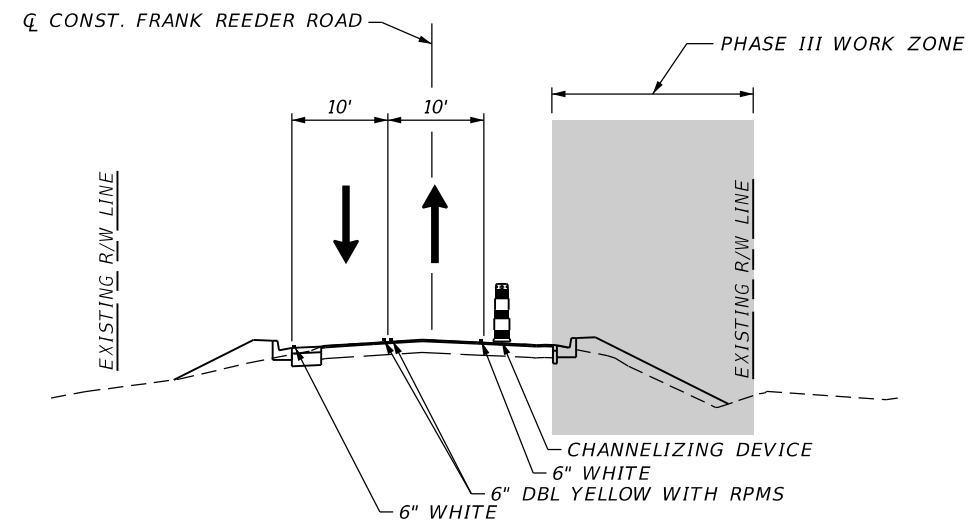
**PHASE II TYPICAL SECTION (1)**  
 TYPICAL SECTION SHOWN AT  
 STATION 71+00.00 Q CONST. FRANK REEDER ROAD  
 STA. 70+24.22 TO STA. 74+56.19

- PHASE II - TEMPORARY STRIPING, RECONSTRUCTION, AND DRAINAGE
1. USE ADVANCE WARNING SIGNS FROM PHASE I.
  2. REMOVE CONFLICTING STRIPING, PLACE STRIPING AS SHOWN IN PHASE II TYPICAL SECTION (1). SHIFT TRAFFIC TO LANE CONFIGURATION SHOWN ON PHASE II TYPICAL SECTION (1) USING INDEX 102-603.
  3. CONSTRUCT PROPOSED DRAINAGE.
  4. CONSTRUCT PAVEMENT WIDENING AND CURB & GUTTER.

<p><b>FRANK REEDER ROAD</b>          ENGINEERING DESIGN          TTCP (TYPICAL SECTIONS)</p>	
KAREL ANDERSON, P.E. No. 73720 DATE: _____ PROJECT LOCATION: FRANK REEDER ROAD PROJECT NUMBER: PD-21-2102	PROJECT MANAGER: KAREL ANDERSON, PE
<p>4489 WOODBINE ROAD • P.O. Box 10706 • FORT WORTH, TEXAS 76171          Tel 850.289.1000 • Fax 850.289.1001</p>	
NUMBER: _____ REVISIONS: _____ DATE: _____ APPROVED BY: _____	SHEET 63

c:\pwwork\american-pe-01\065188A\CTD\0100.dwg, December 6, 2023 - 2:18:37 PM, 590862

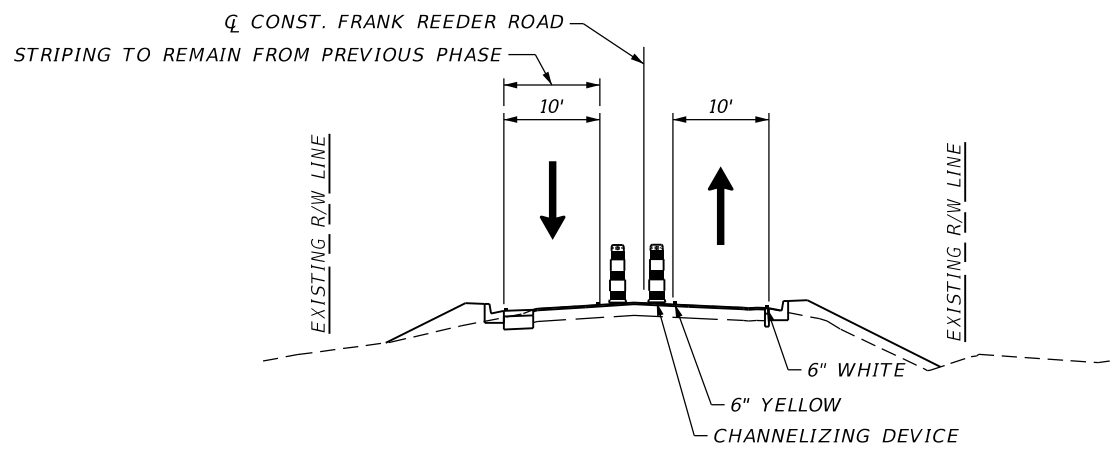
PHASE	REVIEW	DATE	ORIGINATOR (OR)	CHECKER (CP)	DATE	VERIFICATION CHECKER (VC)	REMARK INCORPORATION (RI)	DATE
SIGNATURE:								



**PHASE III TYPICAL SECTION (1)**  
 TYPICAL SECTION SHOWN AT  
 STATION 71+00.00 Q CONST. FRANK REEDER ROAD  
 STA. 70+24.22 TO STA. 74+56.19

PHASE III - TEMPORARY STRIPING, RECONSTRUCTION, AND DRAINAGE

1. USE ADVANCE WARNING SIGNS FROM PHASE I.
2. REMOVE CONFLICTING STRIPING, PLACE STRIPING AS SHOWN IN PHASE III TYPICAL SECTION (1). SHIFT TRAFFIC TO LANE CONFIGURATION SHOWN ON PHASE III TYPICAL SECTION (1) USING INDEX 102-603.
3. CONSTRUCT PROPOSED DRAINAGE.
4. CONSTRUCT PAVEMENT WIDENING AND CURB & GUTTER.



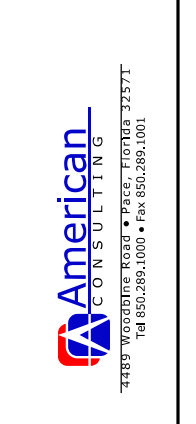
**PHASE IV TYPICAL SECTION (1)**  
 TYPICAL SECTION SHOWN AT  
 STATION 71+00.00 Q CONST. FRANK REEDER ROAD  
 STA. 70+24.22 TO STA. 74+56.19

PHASE IV - TEMPORARY STRIPING, FRICTION COURSE AND FINAL STRIPING

1. USE ADVANCE WARNING SIGNS FROM PHASE I.
2. REMOVE CONFLICTING STRIPING, PLACE STRIPING AS SHOWN IN PHASE IV TYPICAL SECTION (1). SHIFT TRAFFIC TO LANE CONFIGURATION SHOWN ON PHASE IV TYPICAL SECTION (1) USING INDEX 102-603.
3. PLACE FINAL FRICTION COURSE AND STRIPING USING INDEX 102-603.
4. SHIFT TRAFFIC LANES TO FINAL LANE CONFIGURATION.
5. FINALIZE GRADING AND TIE-DOWNS.



KARLE ANDERSON, P.E. No. 73720  
 DATE: \_\_\_\_\_  
 PROJECT LOCATION: FRANK REEDER ROAD  
 PROJECT NUMBER: PD-21-02-002  
 PROJECT MANAGER: KARLE ANDERSON, PE

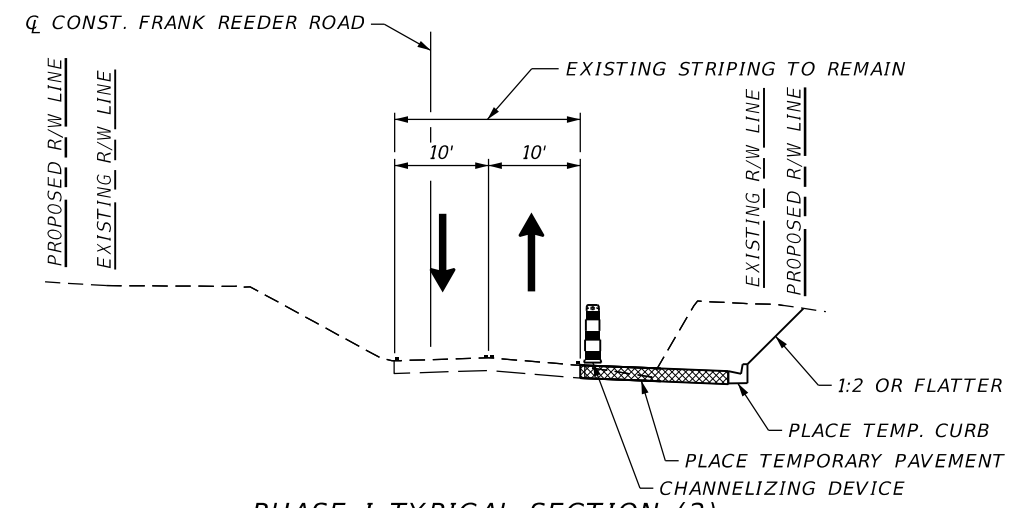


NUMBER	DATE	APPROVED BY



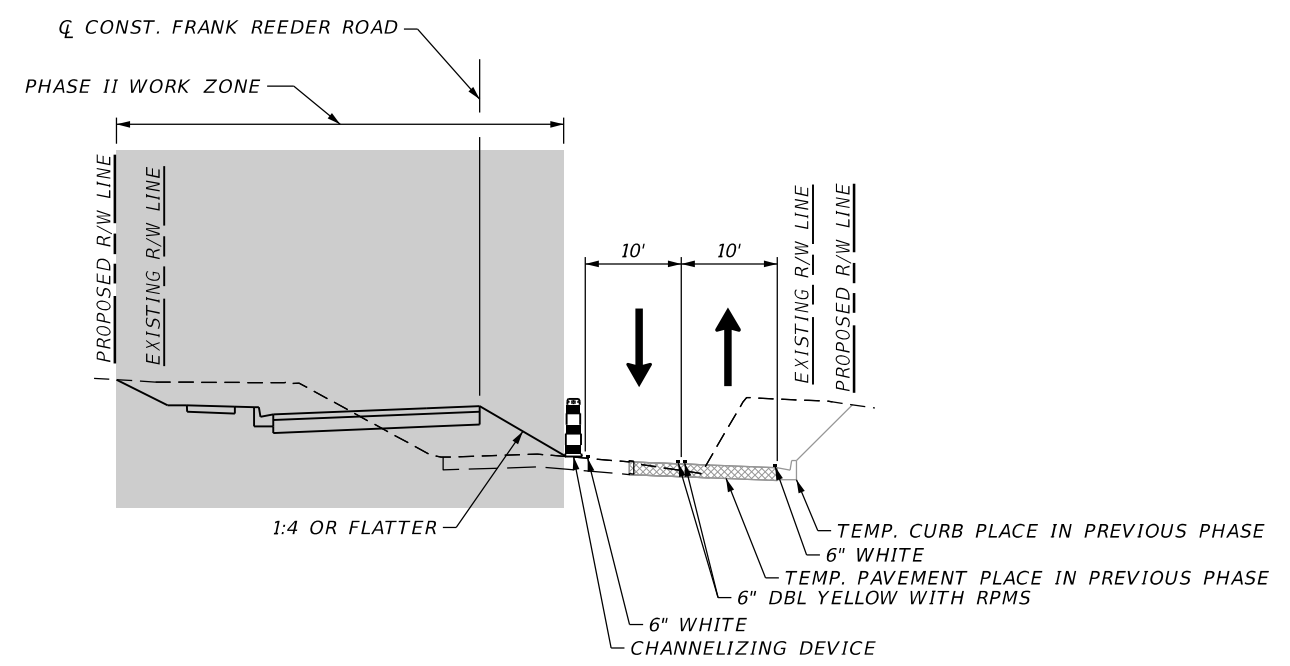
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PHASE	REVIEW	DATE	ORIGINATOR (OR)	CHECKER (CP)	VERIFICATION CHECKER (VC)	DATE
SIGNATURE:			ORIGINATOR (OR)	CHECKER (CP)	VERIFICATION CHECKER (VC)	DATE
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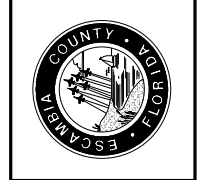
**PHASE I TYPICAL SECTION (2)**  
 TYPICAL SECTION SHOWN AT  
 STATION 81+00.00  $\bar{C}$  CONST. FRANK REEDER ROAD  
 STA. 74+56.19 TO STA. 91+00.00

- PHASE I - TEMPORARY PAVEMENT, TEMPORARY CURB, AND TEMPORARY DRAINAGE
1. PLACE ADVANCE WARNING SIGNS FOR PHASE I ON SIDESTREETS PER THE ADVANCE WARNING SIGN DETAIL.
  2. PLACE TEMPORARY PAVEMENT AND TEMPORARY CURB USING INDEX 102-603.
  3. PROVIDE TEMPORARY DRAINAGE.

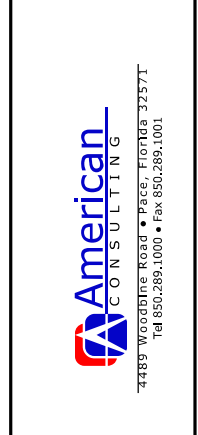


**PHASE II TYPICAL SECTION (2)**  
 TYPICAL SECTION SHOWN AT  
 STATION 81+00.00  $\bar{C}$  CONST. FRANK REEDER ROAD  
 STA. 74+56.19 TO STA. 91+00.00

- PHASE II - TEMPORARY STRIPING, RECONSTRUCTION, AND DRAINAGE
1. USE ADVANCE WARNING SIGNS FROM PHASE I.
  2. REMOVE CONFLICTING STRIPING, PLACE STRIPING AS SHOWN IN PHASE II TYPICAL SECTION (2). SHIFT TRAFFIC TO LANE CONFIGURATION SHOWN ON PHASE II TYPICAL SECTION (2) USING INDEX 102-603.
  3. CONSTRUCT PROPOSED DRAINAGE.
  4. CONSTRUCT PAVEMENT FOR WB LANES, CURB & GUTTER, AND SIDEWALK.

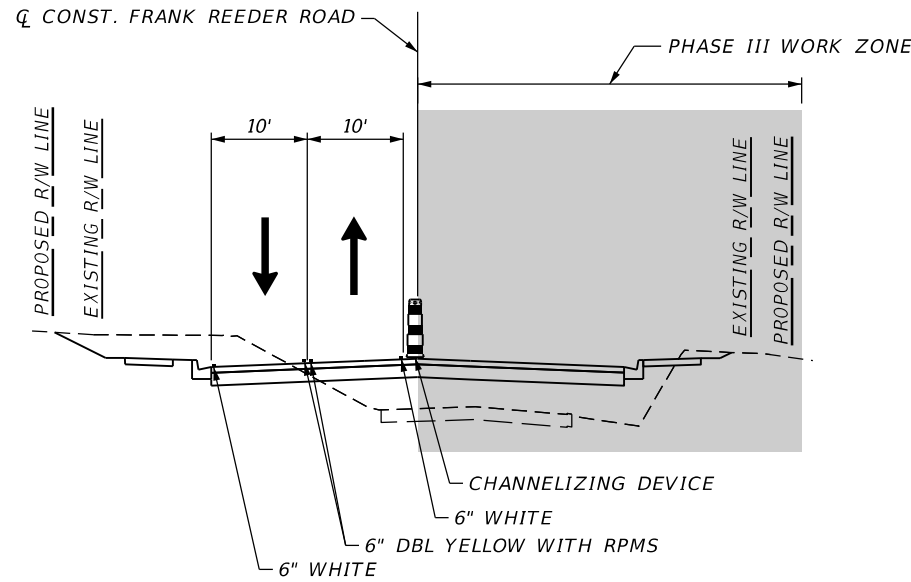


KARL ANDERSON, P.E. No. 73720  
 DATE: \_\_\_\_\_  
 PROJECT LOCATION: FRANK REEDER ROAD  
 PROJECT NUMBER: PD-21-02-002  
 PROJECT MANAGER: KARL ANDERSON, PE



NUMBER	DATE	APPROVED BY

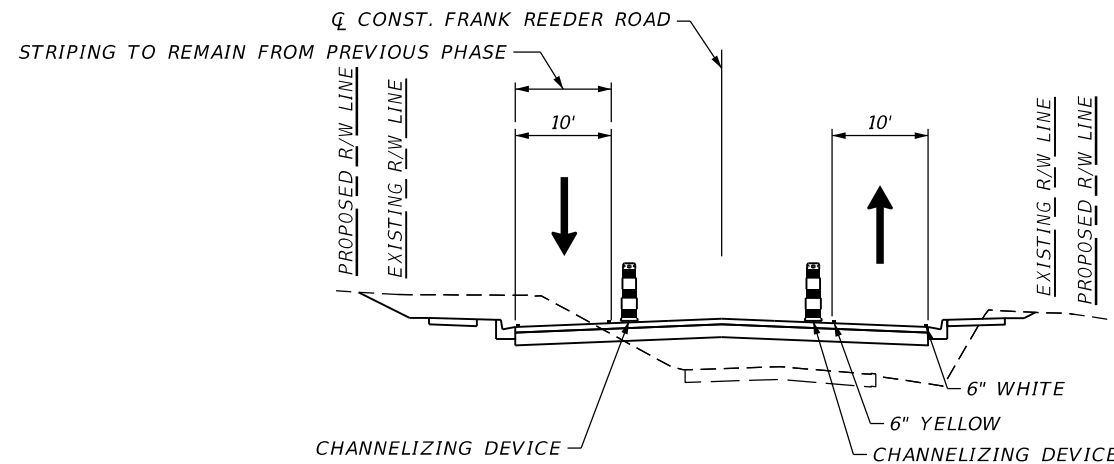
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SIGNATURE:			CHECKER (CP)	(Red Pen X-Out to Disapprove or Remark)	DATE	REMARK INCORPORATION	(Blue Highlight)	DATE
			CHANGE INCORPORATION	(Yellow Highlight)	DATE	ORIGINATOR VERIFICATION	Correct (Penc Highlight)	DATE
			PRODUCTION CHECKING COMPLETE, READY FOR SUBMITAL REVIEW (PP)					



**PHASE III TYPICAL SECTION (2)**  
 TYPICAL SECTION SHOWN AT  
 STATION 81+00.00 Q CONST. FRANK REEDER ROAD  
 STA. 74+56.19 TO STA. 91+00.00

PHASE III - TEMPORARY STRIPING, RECONSTRUCTION, AND DRAINAGE

1. USE ADVANCE WARNING SIGNS FROM PHASE I.
2. REMOVE CONFLICTING STRIPING, PLACE STRIPING AS SHOWN IN PHASE III TYPICAL SECTION (2). SHIFT TRAFFIC TO LANE CONFIGURATION SHOWN ON PHASE III TYPICAL SECTION (2) USING INDEX 102-603.
3. CONSTRUCT PROPOSED DRAINAGE.
4. CONSTRUCT PAVEMENT FOR EB LANES, CURB & GUTTER, AND SIDEWALK.



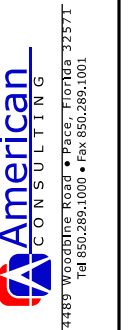
**PHASE IV TYPICAL SECTION (2)**  
 TYPICAL SECTION SHOWN AT  
 STATION 81+00.00 Q CONST. FRANK REEDER ROAD  
 STA. 74+56.19 TO STA. 91+00.00

PHASE IV - TEMPORARY STRIPING, FRICTION COURSE AND FINAL STRIPING

1. USE ADVANCE WARNING SIGNS FROM PHASE I.
2. REMOVE CONFLICTING STRIPING, PLACE STRIPING AS SHOWN IN PHASE IV TYPICAL SECTION (2). SHIFT TRAFFIC TO LANE CONFIGURATION SHOWN ON PHASE IV TYPICAL SECTION (2) USING INDEX 102-603.
3. PLACE FINAL FRICTION COURSE AND STRIPING USING INDEX 102-603.
4. SHIFT TRAFFIC LANES TO FINAL LANE CONFIGURATION AND OPEN ALL SIDEWALKS.
5. FINALIZE GRADING AND TIE-DOWNS.



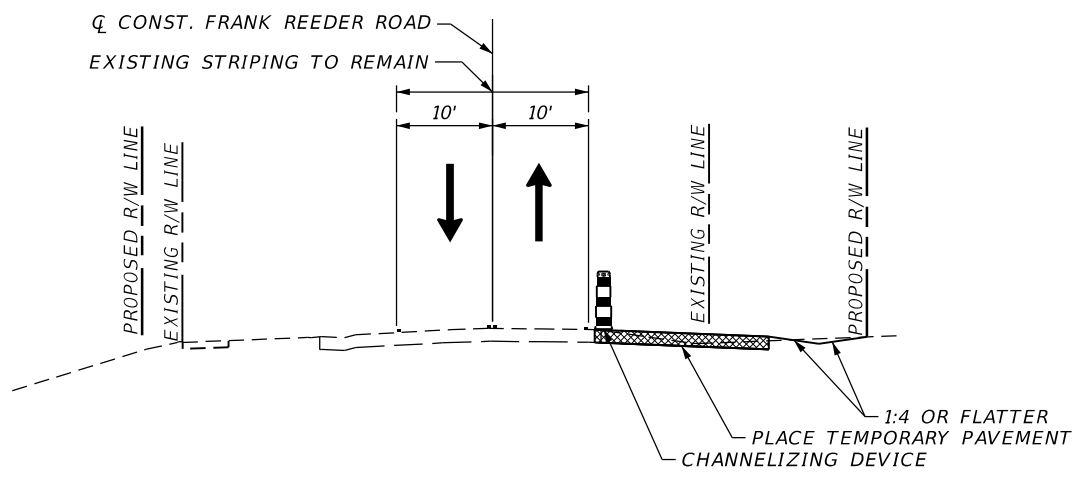
KARLE ANDERSON, P.E. No. 73720  
 DATE: \_\_\_\_\_  
 PROJECT LOCATION: FRANK REEDER ROAD  
 PROJECT NUMBER: PD-21-0202  
 PROJECT MANAGER: KARLE ANDERSON, PE



NUMBER	DATE	APPROVED BY

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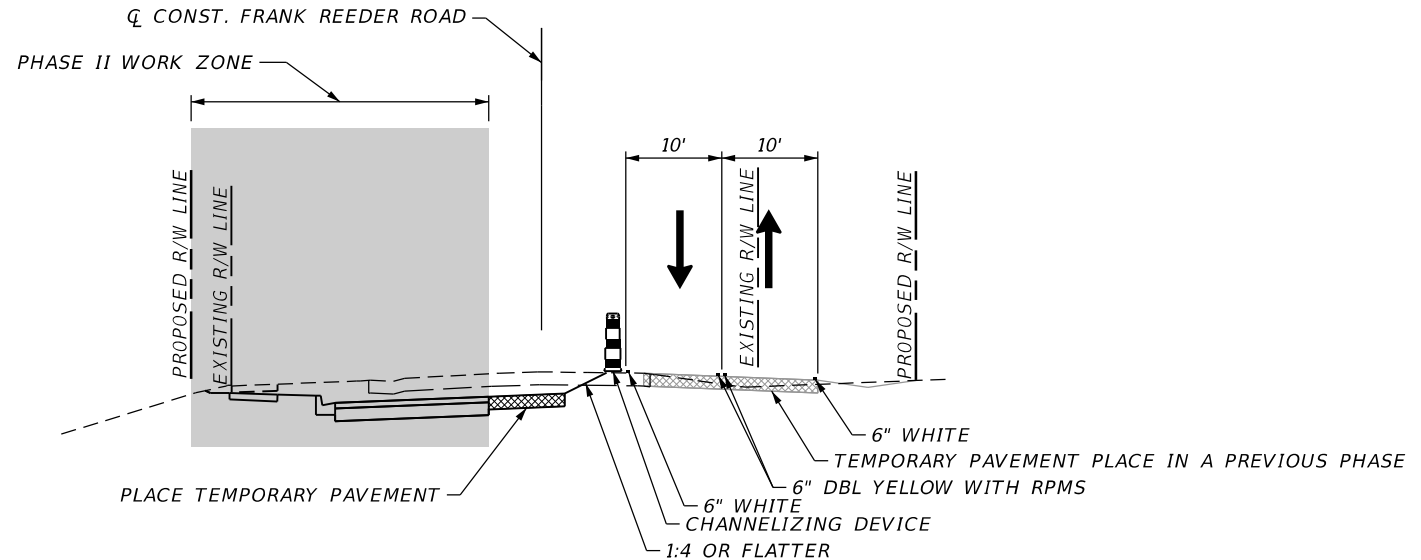
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ORIGINATOR (OR)	DATE	ORIGINATOR VERIFICATION (OV)	DATE
CHECKER (CP)	DATE	CORRECT (Green Highlight) Change (Red Pen)	
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CHECKER (CP)	DATE	CORRECT (Red Pen X-Out to Disapprove or Remark)	
ORIGINATOR (OR)	DATE	ORIGINATOR VERIFICATION (OV)	
CHECKER (CP)	DATE	ORIGINATOR VERIFICATION (OV)	
ORIGINATOR (OR)	DATE	ORIGINATOR VERIFICATION (OV)	
CHECKER (CP)	DATE	ORIGINATOR VERIFICATION (OV)	
ORIGINATOR (OR)	DATE	ORIGINATOR VERIFICATION (OV)	
CHECKER (CP)	DATE	ORIGINATOR VERIFICATION (OV)	



**PHASE I TYPICAL SECTION (3)**  
**TYPICAL SECTION SHOWN AT**  
**STATION 91+00.00 Q CONST. FRANK REEDER ROAD**  
**STA. 91+00.00 TO STA. 109+00.00**

**PHASE I - TEMPORARY PAVEMENT**

1. PLACE ADVANCE WARNING SIGNS FOR PHASE I ON SIDESTREETS PER THE ADVANCE WARNING SIGN DETAIL.
2. PLACE TEMPORARY PAVEMENT USING INDEX 102-603.



**PHASE II TYPICAL SECTION (3)**  
**TYPICAL SECTION SHOWN AT**  
**STATION 91+00.00 Q CONST. FRANK REEDER ROAD**  
**STA. 91+00.00 TO STA. 109+00.00**

**PHASE II - TEMPORARY PAVEMENT, TEMPORARY STRIPING, RECONSTRUCTION, AND DRAINAGE**

1. USE ADVANCE WARNING SIGNS FROM PHASE I.
2. REMOVE CONFLICTING STRIPING, PLACE STRIPING AS SHOWN IN PHASE II TYPICAL SECTION (3). SHIFT TRAFFIC TO LANE CONFIGURATION SHOWN ON PHASE II TYPICAL SECTION (3) USING INDEX 102-603.
3. CONSTRUCT PROPOSED DRAINAGE.
4. CONSTRUCT PAVEMENT FOR WB LANES, CURB & GUTTER, AND SIDEWALK.
5. PLACE TEMPORARY PAVEMENT.

**FRANK REEDER ROAD**  
**ENGINEERING DESIGN**  
**TTCP (TYPICAL SECTIONS)**



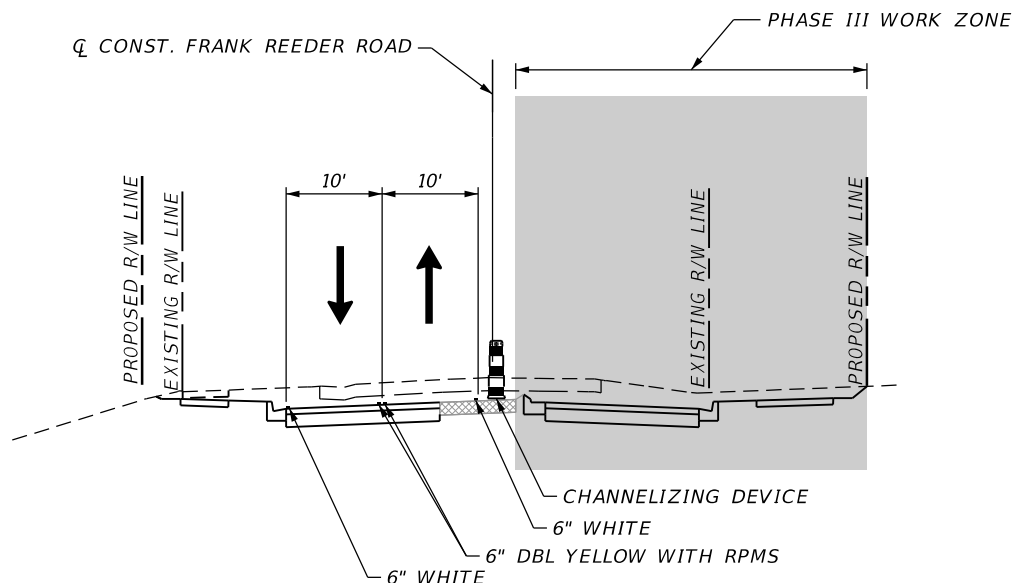
KARLE ANDERSON, P.E. No. 73720  
 DATE: \_\_\_\_\_  
 PROJECT LOCATION: FRANK REEDER ROAD  
 PROJECT NUMBER: PD-21-2102  
 PROJECT MANAGER: KARLE ANDERSON, PE



NUMBER	DATE	APPROVED BY

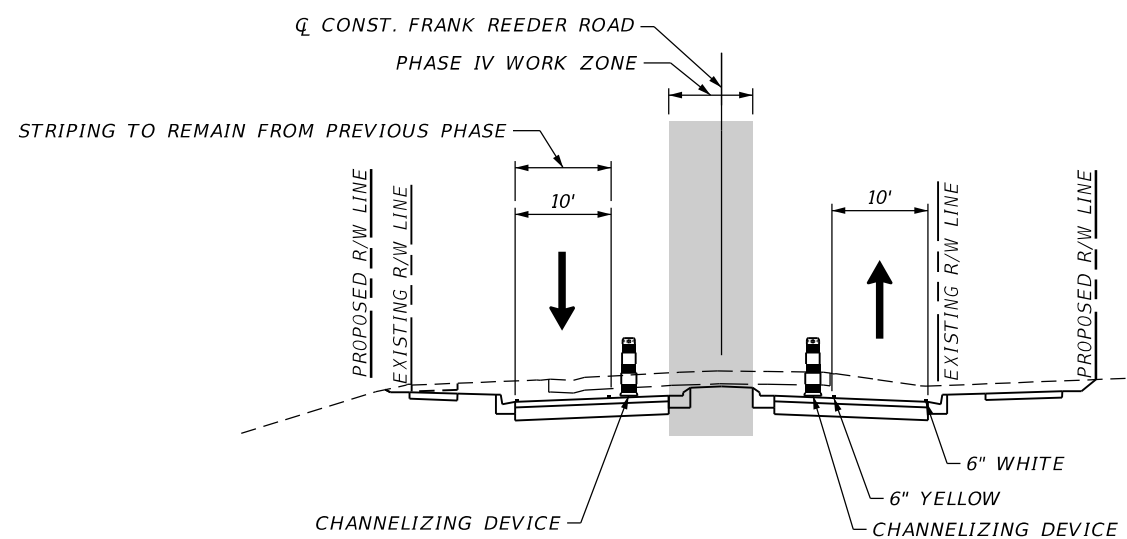
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SIGNATURE:						CHANGE INCORPORATION	(Yellow Highlight)			REMARK INCORPORATION	(Blue Highlight)	
										ORIGINATOR VERIFICATION	Correct (Red Highlight)	



**PHASE III TYPICAL SECTION (3)**  
 TYPICAL SECTION SHOWN AT  
 STATION 91+00.00 Q CONST. FRANK REEDER ROAD  
 STA. 91+00.00 TO STA. 109+00.00

- PHASE III - TEMPORARY STRIPING, RECONSTRUCTION, AND DRAINAGE
1. USE ADVANCE WARNING SIGNS FROM PHASE I.
  2. REMOVE CONFLICTING STRIPING, PLACE STRIPING AS SHOWN IN PHASE III TYPICAL SECTION (3). SHIFT TRAFFIC TO LANE CONFIGURATION SHOWN ON PHASE III TYPICAL SECTION (3) USING INDEX 102-603.
  3. CONSTRUCT PROPOSED DRAINAGE.
  4. CONSTRUCT PAVEMENT FOR EB LANES, CURB & GUTTER, AND SIDEWALK.



**PHASE IV TYPICAL SECTION (3)**  
 TYPICAL SECTION SHOWN AT  
 STATION 91+00.00 Q CONST. FRANK REEDER ROAD  
 STA. 91+00.00 TO STA. 109+00.00

- PHASE IV - RAISED MEDIAN, FRICTION COURSE AND FINAL STRIPING
1. USE ADVANCE WARNING SIGNS FROM PHASE I.
  2. REMOVE CONFLICTING STRIPING, PLACE STRIPING AS SHOWN IN PHASE IV TYPICAL SECTION (3). SHIFT TRAFFIC TO LANE CONFIGURATION SHOWN ON PHASE IV TYPICAL SECTION (3) USING INDEX 102-603.
  3. CONSTRUCT RECONSTRUCTION.
  4. PLACE FINAL FRICTION COURSE AND STRIPING USING INDEX 102-603.
  5. SHIFT TRAFFIC LANES TO FINAL LANE CONFIGURATION AND OPEN ALL SIDEWALKS.
  6. FINALIZE GRADING AND TIE-DOWNS.

# FRANK REEDER ROAD

## ENGINEERING DESIGN

### TTCP (TYPICAL SECTIONS)

KARLE ANDERSON, P.E. No. 73720

DATE: \_\_\_\_\_

PROJECT LOCATION: FRANK REEDER ROAD

PROJECT NUMBER: PD 21-2302

PROJECT MANAGER: KARLE ANDERSON, PE

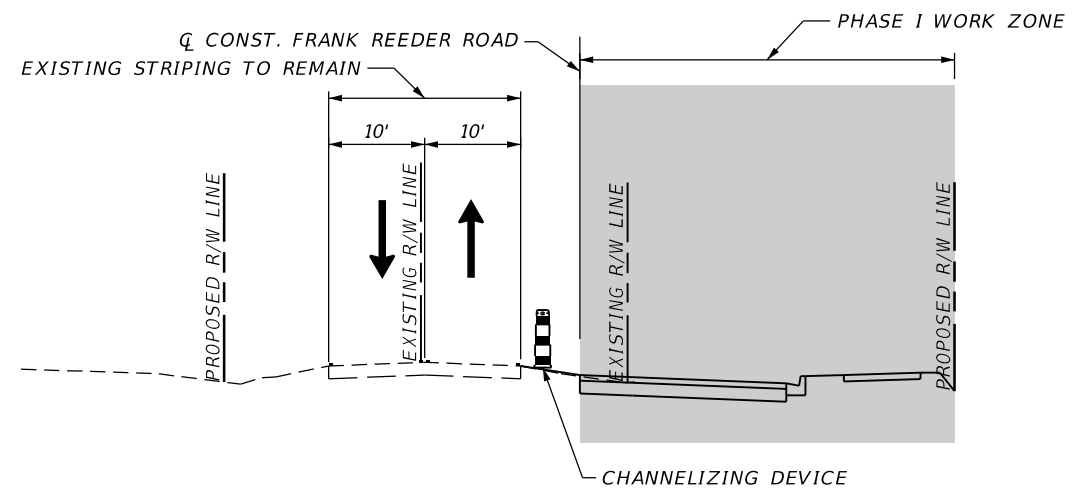
4489 WOODBINE ROAD • P.O. Box 37577  
 Tallahassee, Florida 32317  
 Tel 904.289.1000 • Fax 904.289.1001

NUMBER	REVISIONS	DATE	APPROVED BY

SHEET 68

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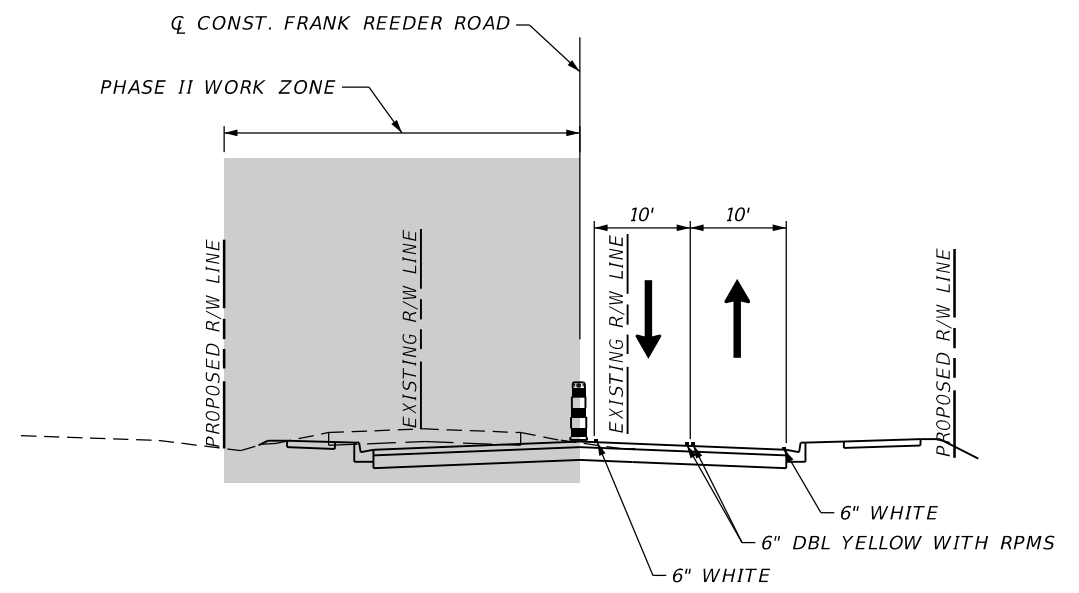
PHASE	REVIEW	DATE	ORDINATOR (OR)	CHECKER (CP)	DATE	VERIFICATION CHECKER (VC)	DATE
SIGNATURE:							



**PHASE I TYPICAL SECTION (4)**  
 TYPICAL SECTION SHOWN AT  
 STATION 131+00.00 Q CONST. FRANK REEDER ROAD  
 STA. 109+00.00 TO STA. 138+00.00

PHASE I - MAINTAIN EXISTING LANES, RECONSTRUCTION, AND DRAINAGE

1. PLACE ADVANCE WARNING SIGNS FOR PHASE I ON SIDESTREETS PER THE ADVANCE WARNING SIGN DETAIL.
2. MAINTAIN EXISTING LANES.
3. CONSTRUCT PROPOSED DRAINAGE.
4. CONSTRUCT PAVEMENT FOR EB LANES, CURB & GUTTER, AND SIDEWALK.



**PHASE II TYPICAL SECTION (4)**  
 TYPICAL SECTION SHOWN AT  
 STATION 131+00.00 Q CONST. FRANK REEDER ROAD  
 STA. 109+00.00 TO STA. 138+00.00

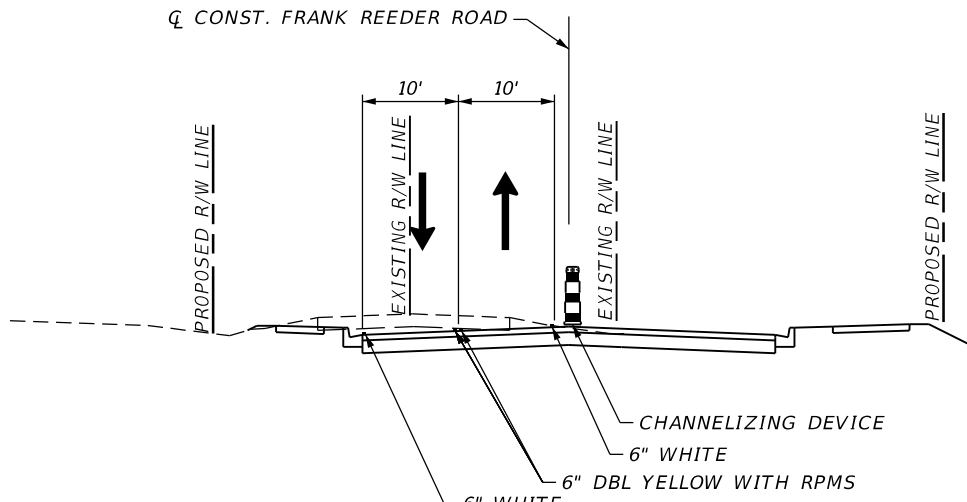
PHASE II - TEMPORARY STRIPING, RECONSTRUCTION, AND DRAINAGE

1. USE ADVANCE WARNING SIGNS FROM PHASE I.
2. REMOVE CONFLICTING STRIPING, PLACE STRIPING AS SHOWN IN PHASE II TYPICAL SECTION (4). SHIFT TRAFFIC TO LANE CONFIGURATION SHOWN ON PHASE II TYPICAL SECTION (4) USING INDEX 102-603.
3. CONSTRUCT PROPOSED DRAINAGE.
4. CONSTRUCT PAVEMENT FOR WB LANES, CURB & GUTTER, AND SIDEWALK.

<b>FRANK REEDER ROAD</b> ENGINEERING DESIGN TTCP (TYPICAL SECTIONS)	
KARLE ANDERSON, P.E. No. 73720 DATE: _____ PROJECT LOCATION: FRANK REEDER ROAD PROJECT NUMBER: PD 21-2302	PROJECT MANAGER: KARLE ANDERSON, PE
 4489 WOODBINE ROAD • P.O. Box 10708 • FORT WORTH, TEXAS 76171 Tel 850.289.1000 • Fax 850.289.1001	
NUMBER: _____ SHEET: _____	APPROVALS: DATE: _____ _____ _____ _____

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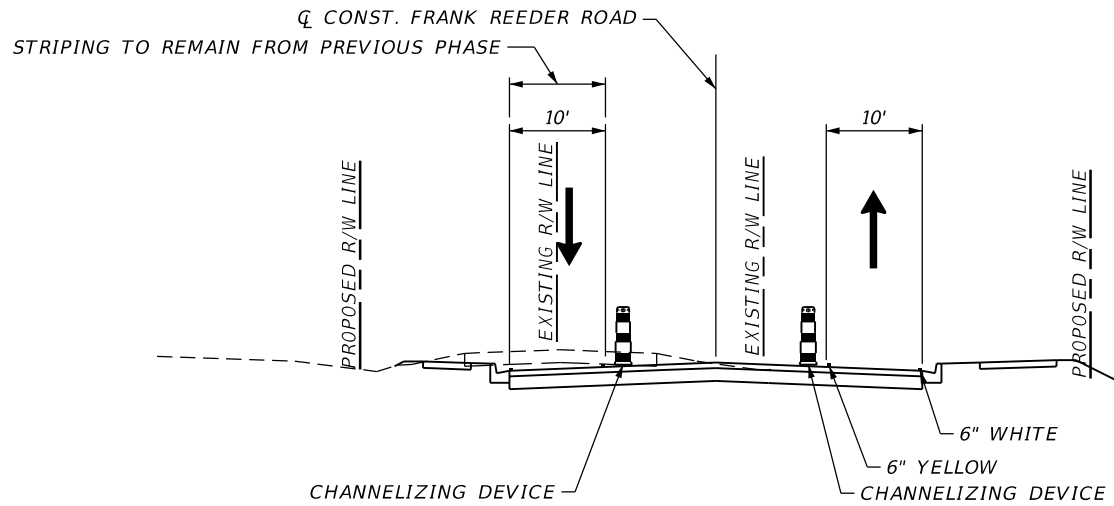
PHASE	REVIEW	DATE	ORDINATOR (OR)	CHECKER (CP)	VERIFICATION CHECKER (VC)	DATE
SIGNATURE:						



**PHASE III TYPICAL SECTION (4)**  
 TYPICAL SECTION SHOWN AT  
 STATION 131+00.00 Q CONST. FRANK REEDER ROAD  
 STA. 109+00.00 TO STA. 138+00.00

PHASE III - TEMPORARY STRIPING

1. USE ADVANCE WARNING SIGNS FROM PHASE I.
2. REMOVE CONFLICTING STRIPING, PLACE STRIPING AS SHOWN IN PHASE III TYPICAL SECTION (4). SHIFT TRAFFIC TO LANE CONFIGURATION SHOWN ON PHASE III TYPICAL SECTION (4) USING INDEX 102-603.




**PHASE IV TYPICAL SECTION (4)**  
 TYPICAL SECTION SHOWN AT  
 STATION 131+00.00 Q CONST. FRANK REEDER ROAD  
 STA. 109+00.00 TO STA. 138+00.00


PHASE IV - TEMPORARY STRIPING, FRICTION COURSE AND FINAL STRIPING

1. USE ADVANCE WARNING SIGNS FROM PHASE I.
2. REMOVE CONFLICTING STRIPING, PLACE STRIPING AS SHOWN IN PHASE IV TYPICAL SECTION (4). SHIFT TRAFFIC TO LANE CONFIGURATION SHOWN ON PHASE IV TYPICAL SECTION (4) USING INDEX 102-603.
3. PLACE FINAL FRICTION COURSE AND STRIPING USING INDEX 102-603.
4. SHIFT TRAFFIC LANES TO FINAL LANE CONFIGURATION AND OPEN ALL SIDEWALKS.
5. FINALIZE GRADING AND TIE-DOWNS.

**FRANK REEDER ROAD**  
ENGINEERING DESIGN  
TTCP (TYPICAL SECTIONS)



KARLE ANDERSON, P.E. No. 73720  
 DATE: \_\_\_\_\_  
 PROJECT LOCATION: FRANK REEDER ROAD  
 PROJECT NUMBER: PD 21-2302  
 PROJECT MANAGER: KARLE ANDERSON, PE

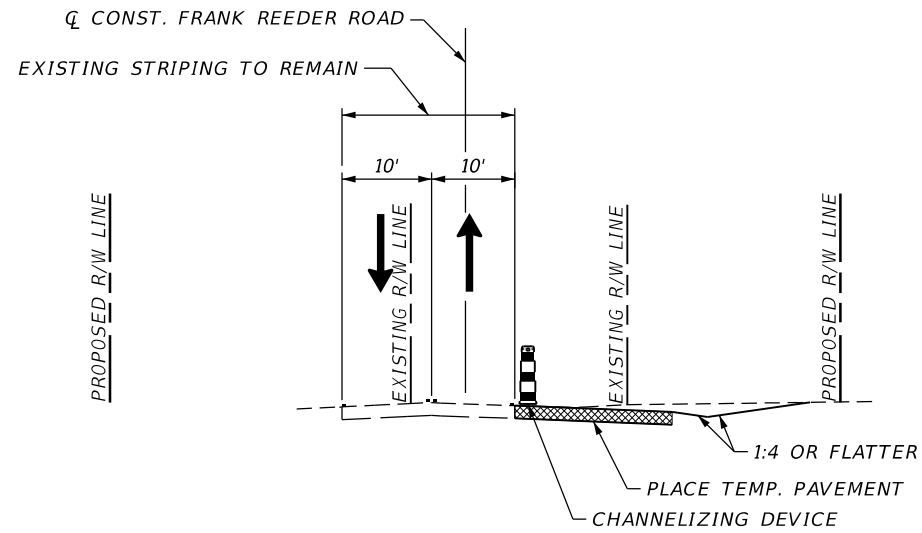


4489 WOODBINE ROAD • P.O. Box 37571  
 Tallahassee, FL 32309 • Tel 850.289.1000 • Fax 850.289.1001

NUMBER	DATE	APPROVAL BY

SHEET 70

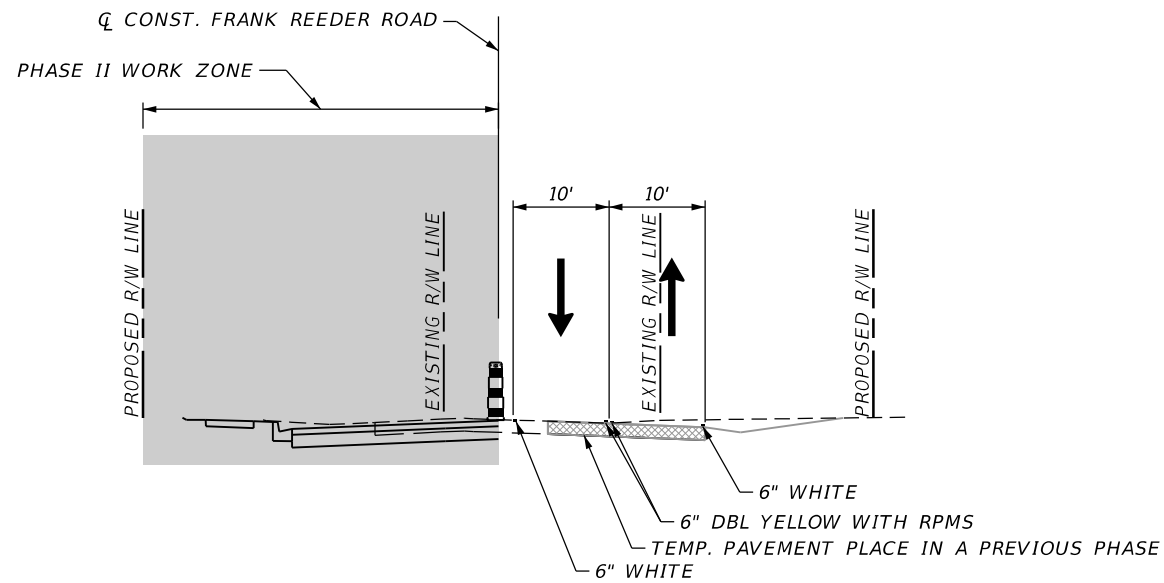
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			ORIGINATOR (OR)	CHECKER (CF)	VERIFICATION CHECKER (VC)	DATE
			ORIGINATOR (OR)	CHECKER (CF)	VERIFICATION CHECKER (VC)	DATE



**PHASE I TYPICAL SECTION (5)**  
TYPICAL SECTION SHOWN AT  
STATION 141+00.00 Q CONST. FRANK REEDER ROAD  
STA. 138+00.00 TO STA. 146+15.56

**PHASE I - TEMPORARY PAVEMENT**

1. PLACE ADVANCE WARNING SIGNS FOR PHASE I ON SIDESTREETS PER THE ADVANCE WARNING SIGN DETAIL.
2. PLACE TEMPORARY PAVEMENT USING INDEX 102-603.



**PHASE II TYPICAL SECTION (5)**  
TYPICAL SECTION SHOWN AT  
STATION 141+00.00 Q CONST. FRANK REEDER ROAD  
STA. 138+00.00 TO STA. 146+15.56

**PHASE II - TEMPORARY STRIPING, RECONSTRUCTION, AND DRAINAGE**

1. USE ADVANCE WARNING SIGNS FROM PHASE I.
2. REMOVE CONFLICTING STRIPING, PLACE STRIPING AS SHOWN IN PHASE II TYPICAL SECTION (5). SHIFT TRAFFIC TO LANE CONFIGURATION SHOWN ON PHASE II TYPICAL SECTION (5) USING INDEX 102-603.
3. CONSTRUCT PROPOSED DRAINAGE.
4. CONSTRUCT PAVEMENT FOR WB LANES, CURB & GUTTER, AND SIDEWALK.



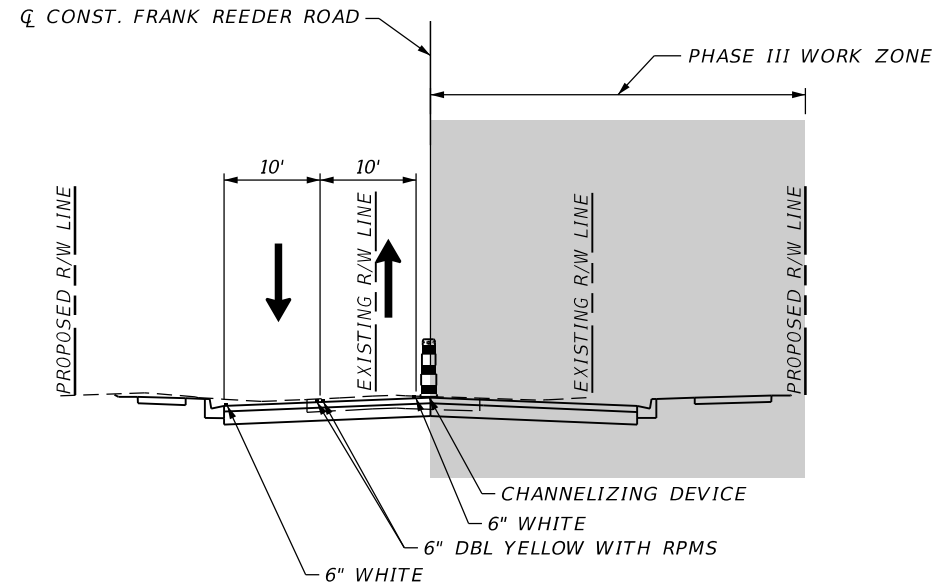
KARLE ANDERSON, P.E. No. 73720	DATE:
PROJECT LOCATION: FRANK REEDER ROAD	PROJECT NUMBER: PD 21-22.002
PROJECT MANAGER: KARLE ANDERSON, PE	

**American CONSULTING**  
4489 WOODBINE ROAD • P.O. Box 37571  
Tel 850.289.1000 • Fax 850.289.1001

NUMBER	DATE	APPROVED BY

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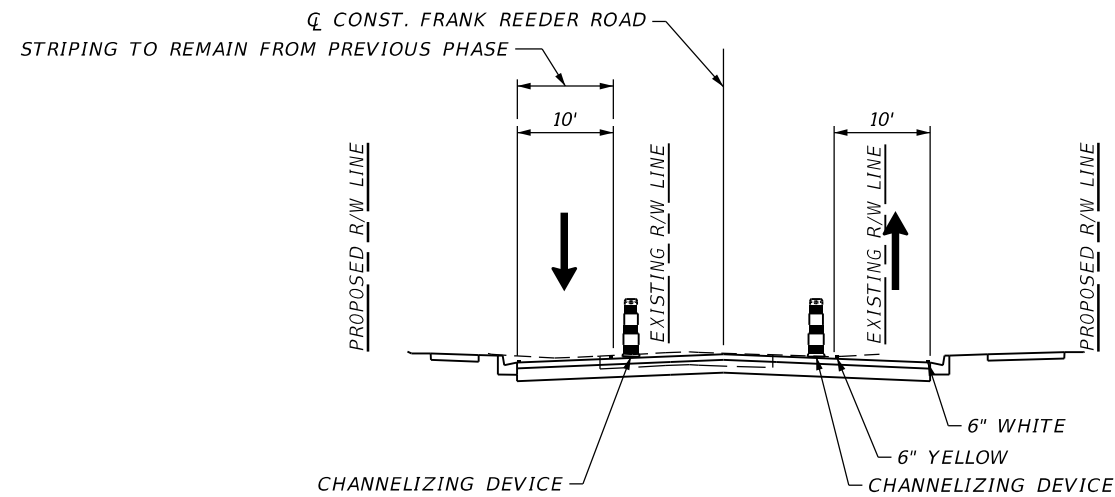
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SIGNATURE:		ORIGINATOR (OR)	CHECKER (CP)	DATE	VERIFICATION CHECKER (VC)	REMARK INCORPORATION	DATE
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		ORIGINATOR (OR)	CHECKER (CP)	DATE	VERIFICATION CHECKER (VC)	REMARK INCORPORATION	DATE



**PHASE III TYPICAL SECTION (5)**  
**TYPICAL SECTION SHOWN AT**  
**STATION 141+00.00 Q CONST. FRANK REEDER ROAD**  
**STA. 138+00.00 TO STA. 146+15.56**

PHASE III - TEMPORARY STRIPING, RECONSTRUCTION, AND DRAINAGE

1. USE ADVANCE WARNING SIGNS FROM PHASE I.
2. REMOVE CONFLICTING STRIPING, PLACE STRIPING AS SHOWN IN PHASE III TYPICAL SECTION (5). SHIFT TRAFFIC TO LANE CONFIGURATION SHOWN ON PHASE III TYPICAL SECTION (5) USING INDEX 102-603.
3. CONSTRUCT PROPOSED DRAINAGE.
4. CONSTRUCT PAVEMENT FOR EB LANES, CURB & GUTTER, AND SIDEWALK.



**PHASE IV TYPICAL SECTION (5)**  
**TYPICAL SECTION SHOWN AT**  
**STATION 141+00.00 Q CONST. FRANK REEDER ROAD**  
**STA. 138+00.00 TO STA. 146+15.56**

PHASE IV - TEMPORARY STRIPING, FRICTION COURSE AND FINAL STRIPING

1. USE ADVANCE WARNING SIGNS FROM PHASE I.
2. REMOVE CONFLICTING STRIPING, PLACE STRIPING AS SHOWN IN PHASE IV TYPICAL SECTION (5). SHIFT TRAFFIC TO LANE CONFIGURATION SHOWN ON PHASE IV TYPICAL SECTION (5) USING INDEX 102-603.
3. PLACE FINAL FRICTION COURSE AND STRIPING USING INDEX 102-603.
4. SHIFT TRAFFIC LANES TO FINAL LANE CONFIGURATION AND OPEN ALL SIDEWALKS.
5. FINALIZE GRADING AND TIE-DOWNS.

**FRANK REEDER ROAD**  
**ENGINEERING DESIGN**  
**TTCP (TYPICAL SECTIONS)**

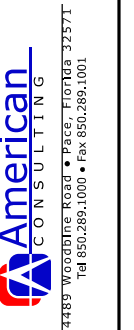


KARLE ANDERSON, P.E. No. 73720

DATE:

PROJECT LOCATION:  
 FRANK REEDER ROAD  
 PROJECT NUMBER:  
 PD 21-2102

PROJECT MANAGER:  
 KARLE ANDERSON, PE

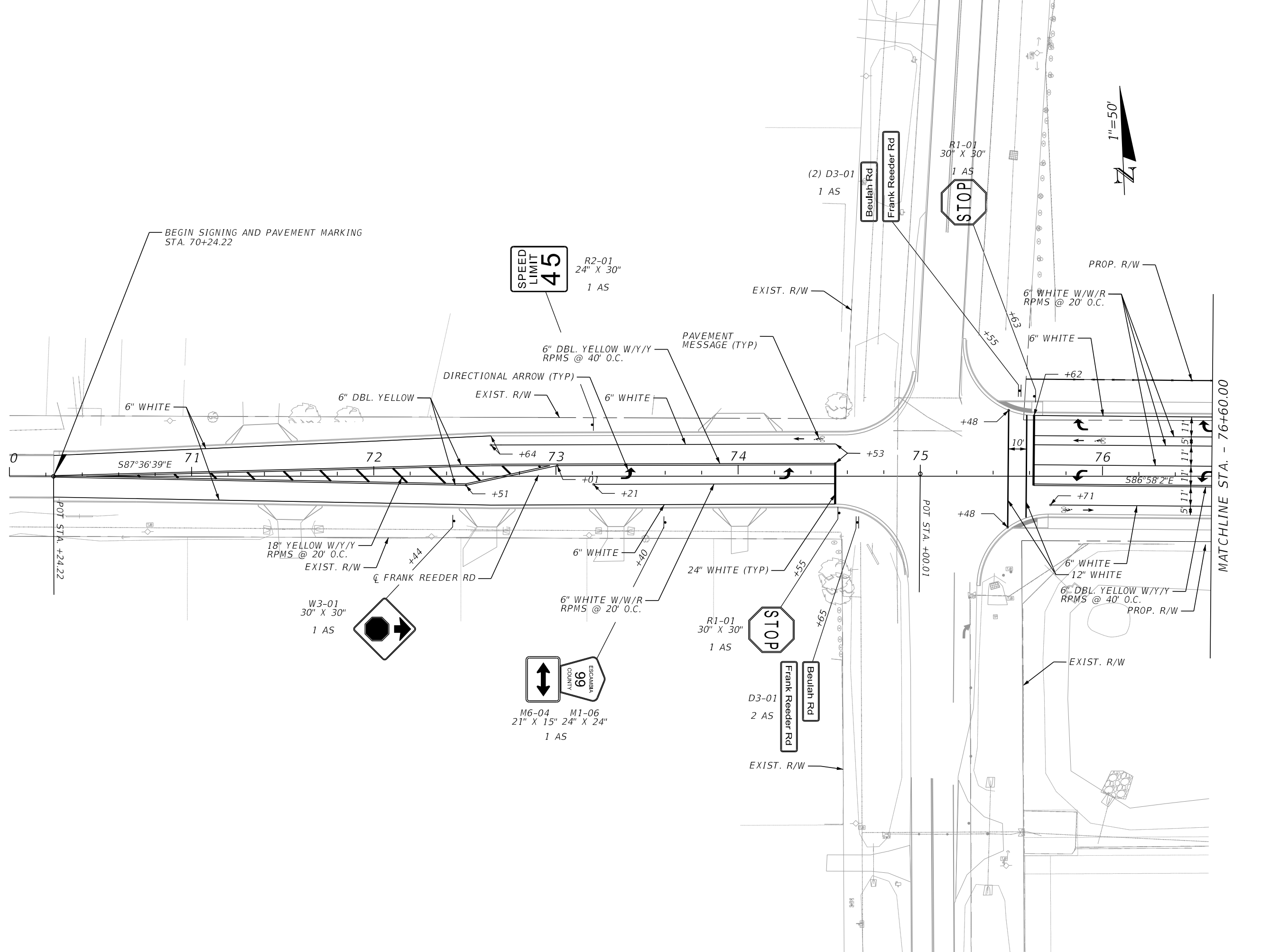


NUMBER	DATE	APPROVED BY



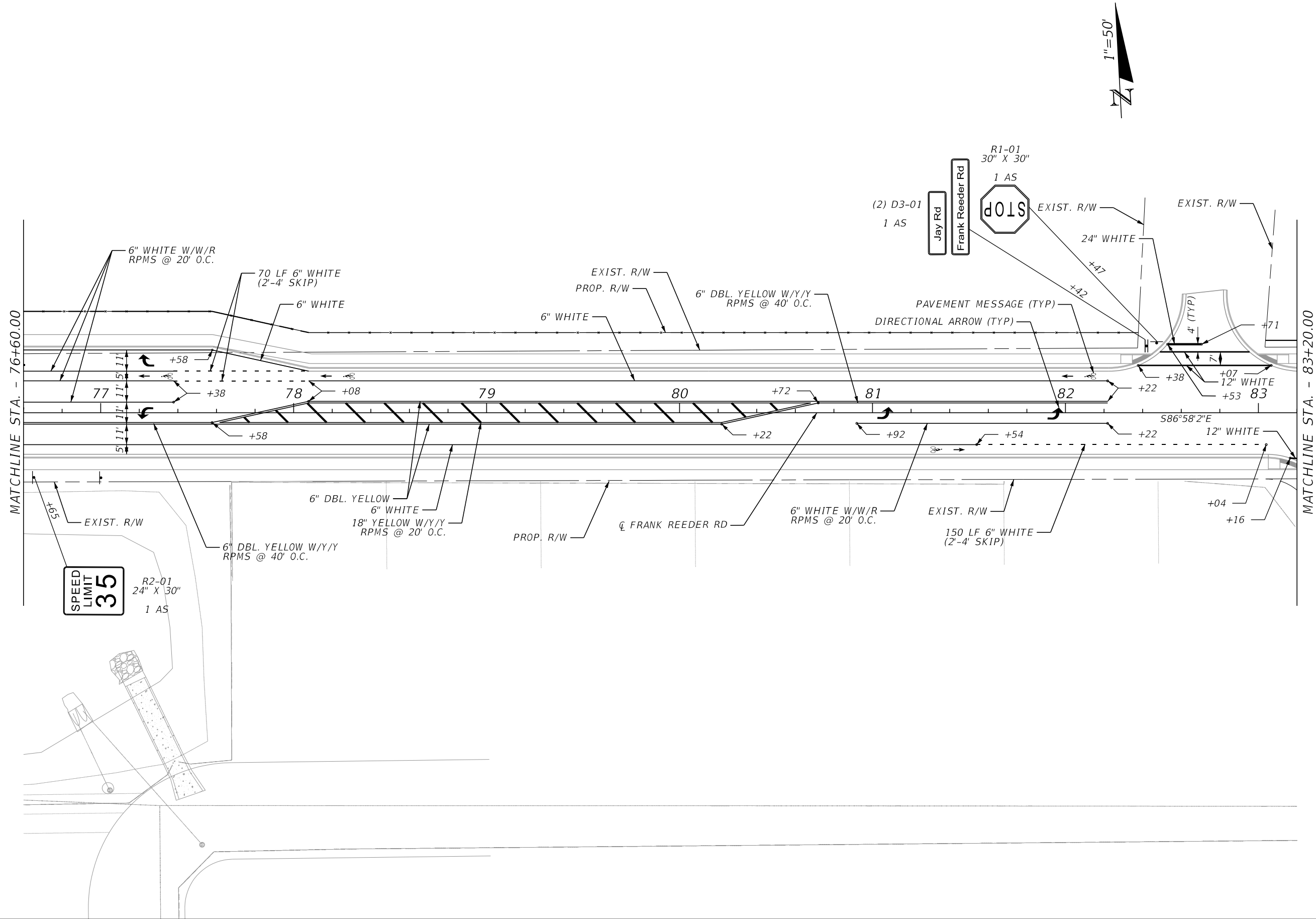
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PHASE	REVIEW	DATE	ORIGINATOR (OR)	CHECKER (CP)	VERIFICATION CHECKER (VC)	REMARK INCORPORATION	DATE
SIGNATURE:							



<b>FRANK REEDER ROAD</b> ENGINEERING DESIGN <b>SIGNING AND PAVEMENT MARKING PLAN</b>	
PROJECT LOCATION: FRANK REEDER ROAD PROJECT NUMBER: KAREE ANDERSON, PE PD 21-2302	DATE: PROJECT MANAGER: KAREE ANDERSON, PE
7489 WOODBINE ROAD • P.O. Box 37577 Tallahassee, Florida 32317 Tel 904.289.1000 • Fax 904.289.1001 Certificate of Authorization No. 9302	
NUMBER REVISIONS DATE APPROVAL	SHEET 73

PHASE	REVIEW	DATE	ORIGINATOR (OP)	PRODUCTION CHECKING COMPLETE, READY FOR SUBMITTAL REVIEW (RP)	DATE	ORIGINATOR (OR)	Correct (Green Highlight) Change (Red Pen)	DATE	VERIFICATION CHECKER (CP)	(Blue Highlight)	DATE
SIGNATURE:			CHECKER (CP)	CHANGE INCORPORATION		CHECKER (RP)	(Red Pen X-Out to Disagree or Remark)		REMARK INCORPORATION	(Blue Highlight)	
							(Yellow Highlight)		OPERATOR VERIFICATION	Correct (Penc Highlight)	



FRANK REEDER ROAD  
ENGINEERING DESIGN  
SIGNING AND PAVEMENT MARKING PLAN

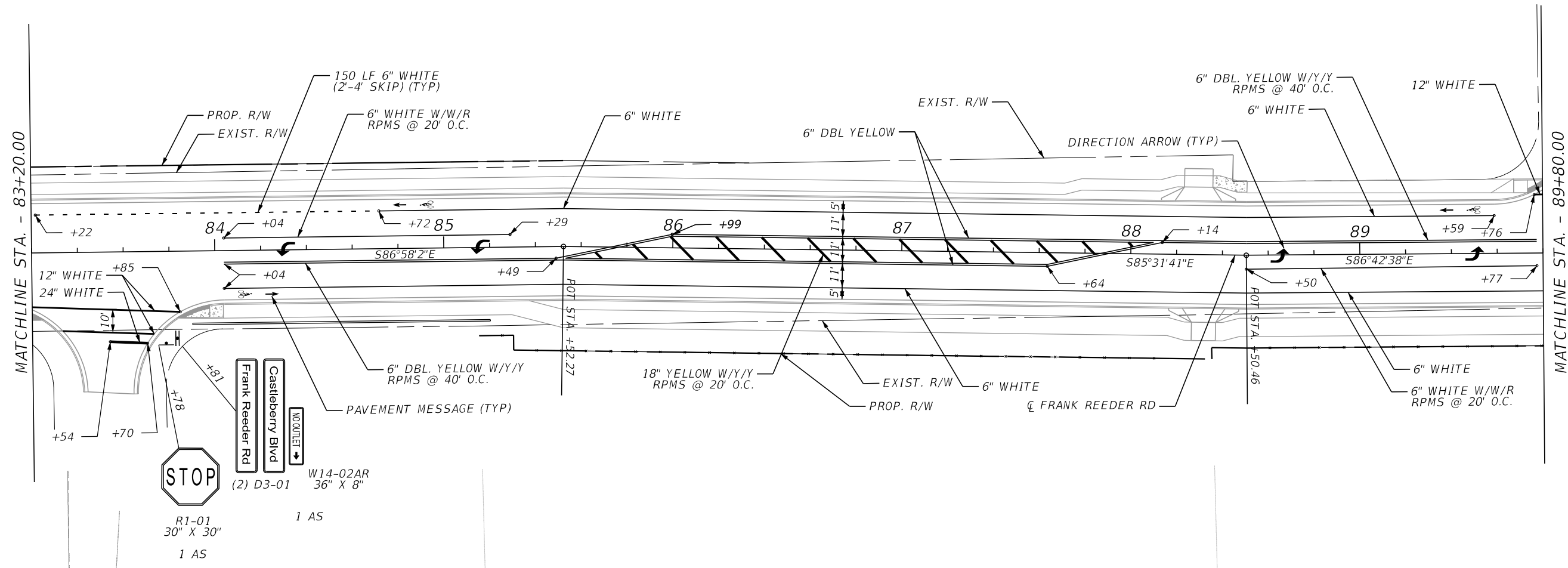
KARLE ANDERSON, P.E. No. 73720  
DATE: \_\_\_\_\_  
PROJECT LOCATION: FRANK REEDER ROAD  
PROJECT NUMBER: \_\_\_\_\_  
PROJECT MANAGER: KARLE ANDERSON, P.E.  
PD: 21-2302



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Tulsa, Oklahoma 74112  
Tel 950.289.1000 • Fax 950.289.1001  
Certificate of Authorization No. 9302

NUMBER	REVISIONS	DATE	APPROVED BY

SHEET 74

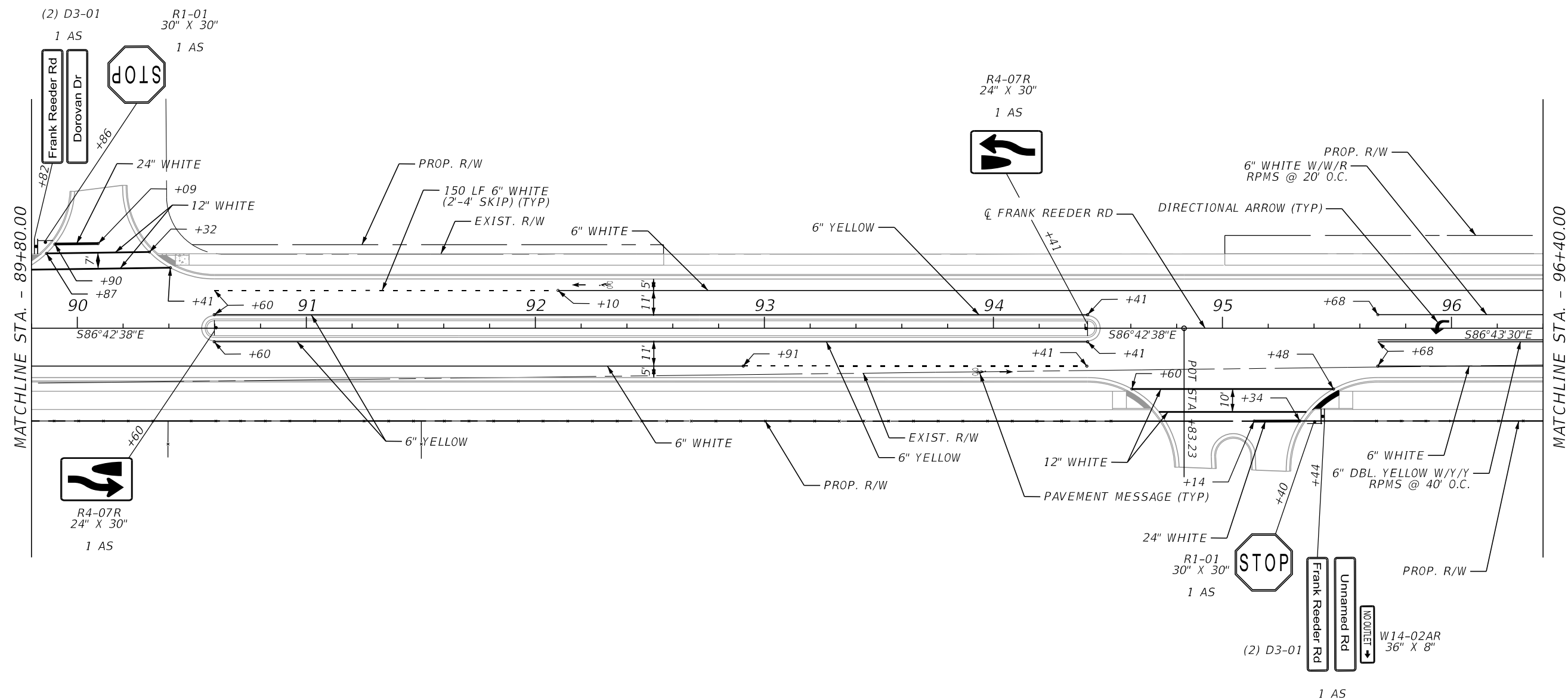
PHASE	REVIEW	DATE	ORDINATOR (OR)	CHECKER (CP)	ORDINATOR (OR)	CHECKER (CP)	DATE	VERIFICATION CHECKER (VC)	REMARK INCORPORATION	ORDINATOR VERIFICATION	DATE
SIGNATURE:											





	
<b>FRANK REEDER ROAD</b> ENGINEERING DESIGN SIGING AND PAVEMENT MARKING PLAN	
KARLE ANDERSON, P.E. No. 7320 DATE: _____ PROJECT LOCATION: FRANK REEDER ROAD PROJECT NUMBER: PD 21-2302	PROJECT MANAGER: KARLE ANDERSON, P.E.
 American CONSULTING 7489 Woodbine Road • P.O. Box 32577 Tallahassee, Florida 32317 Tel 850.289.1000 • Fax 850.289.1001 Certificate of Authorization No. 9302	
NUMBER: _____ REVISIONS: _____ DATE: _____ APPROVAL: _____	SHEET 75

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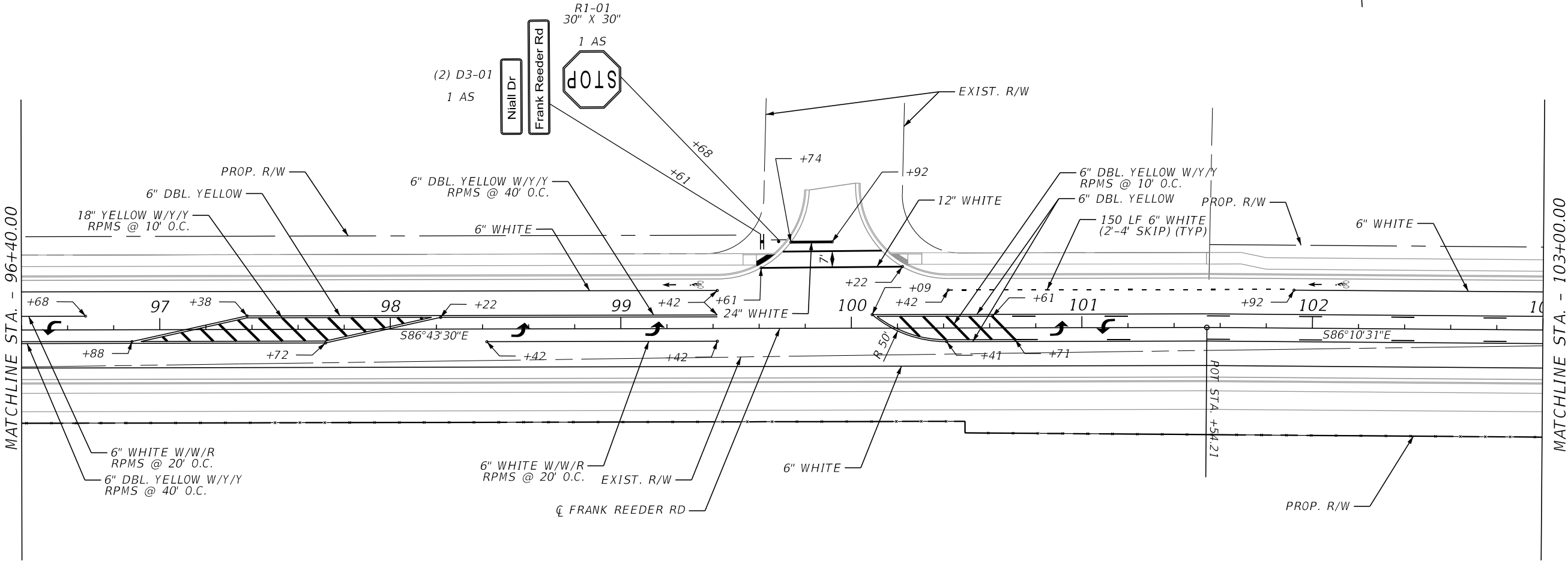
PHASE	REVIEW	DATE	ORIGINATOR (OR)	CHECKER (CP)	DATE	VERIFICATION CHECKER (VC)	DATE
			Correct (Green Highlight) Change (Red Pen)	Red Pen X-Out to Disapprove or Remark		REMARK INCORPORATION	
SIGNATURE:			ORIGINATOR VERIFICATION	CHECKER VERIFICATION		VERIFICATION	



<p><b>FRANK REEDER ROAD</b> ENGINEERING DESIGN SIGNING AND PAVEMENT MARKING PLAN</p>									
									
<p>KARLE ANDERSON, P.E. No. 73720</p>	<p>DATE: _____</p>								
<p>PROJECT LOCATION: FRANK REEDER ROAD</p>	<p>PROJECT NUMBER: PD 21-2302</p>								
<p>PROJECT MANAGER: KARLE ANDERSON, P.E.</p>									
 <p>4489 WOODBINE ROAD • P.O. Box 10708 • Tallahassee, FL 32317 Tel 904.289.1000 • Fax 904.289.1001 Certificate of Authorization No. 9302</p>									
<table border="1"> <tr> <th>NUMBER</th> <th>REVISIONS</th> <th>DATE</th> <th>APPROVAL</th> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </table>	NUMBER	REVISIONS	DATE	APPROVAL					<p>SHEET <b>76</b></p>
NUMBER	REVISIONS	DATE	APPROVAL						

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PHASE	REVIEW	DATE	ORIGINATOR (OR)	CHECKER (CP)	DATE	VERIFICATION CHECKER (VC)	REMARK INCORPORATION	DATE
SIGNATURE:								

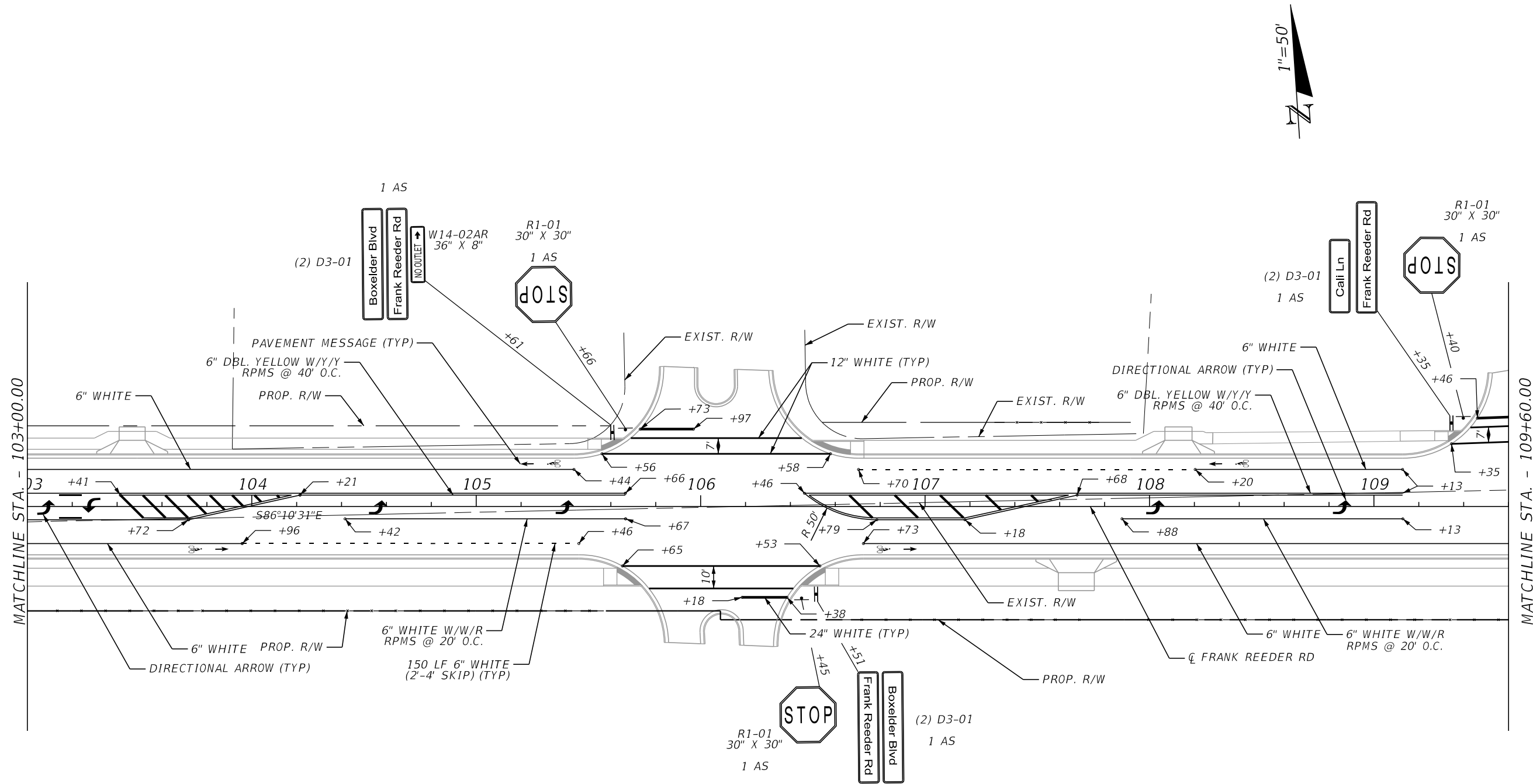


<p><b>FRANK REEDER ROAD</b> ENGINEERING DESIGN SIGNING AND PAVEMENT MARKING PLAN</p>																	
<p>KARLE ANDERSON, P.E. No. 73720</p>	<p>DATE: _____</p>																
<p>PROJECT LOCATION: FRANK REEDER ROAD</p>	<p>PROJECT NUMBER: PD-21-23-002</p>																
<p><b>American CONSULTING</b></p> <p>7489 WOODBINE ROAD • P.O. Box 10700 • Panama City, FL 32571 Tel 850.289.1000 • Fax 850.289.1001 Certificate of Authorization No. 9302</p>																	
<table border="1"> <tr><th>NUMBER</th><th>REVISIONS</th><th>DATE</th><th>APPROVED BY</th></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> </table>	NUMBER	REVISIONS	DATE	APPROVED BY													<p>SHEET <b>77</b></p>
NUMBER	REVISIONS	DATE	APPROVED BY														

PHASE	REVIEW	DATE	ORIGINATOR (OR)	CHECKER (CP)	DATE	VERIFICATION, CHECKER (VP)	REMARK INCORPORATION	DATE
	SIGNATURE:		ORIGINATOR (OR)	CHECKER (CP)	DATE	ORIGINATOR VERIFICATION	CORRECT (For Highlighter)	DATE

CORRECT (Green Highlighter) Change (Red Pen)			
REMARK INCORPORATION (Red Pen X-Out to Disapprove or Remark)			
CORRECT (For Highlighter)			

PRODUCTION CHECKING COMPLETE, READY FOR SUBMITTAL REVIEW (RP)	
CHANGE INCORPORATION	



# FRANK REEDER ROAD

ENGINEERING DESIGN

SIGNING AND PAVEMENT MARKING PLAN



KARL E. ANDERSON, P.E. No. 73720  
 DATE:  
 PROJECT LOCATION:  
 FRANK REEDER ROAD  
 PROJECT NUMBER:  
 PD 21-2392  
 PROJECT MANAGER:  
 KARL E. ANDERSON, P.E.

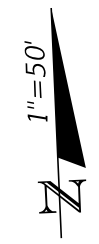
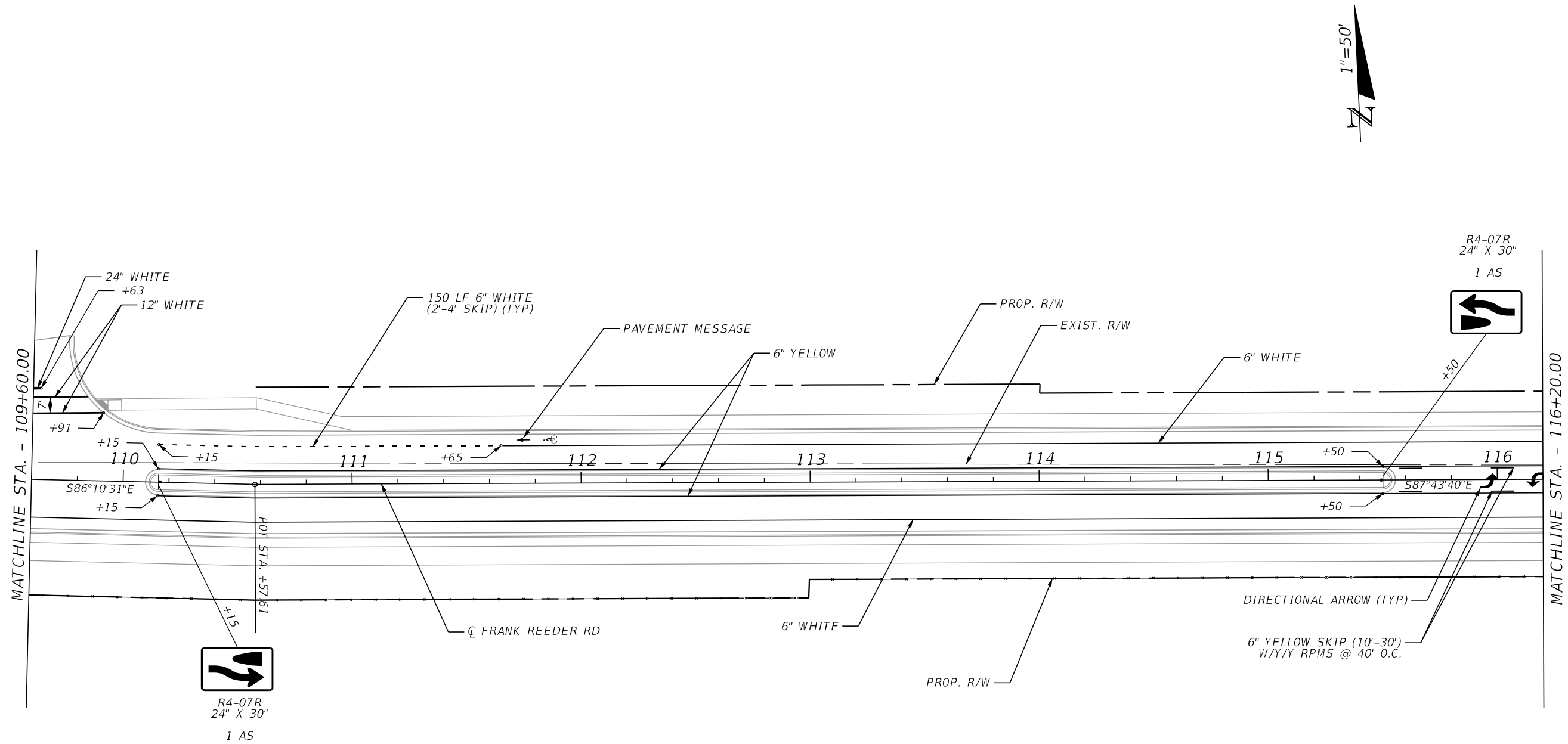



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 Tel 954.289.1000 • Fax 954.289.1001  
 Certificate of Authorization No. 9302

NUMBER	DATE	APPROVED BY

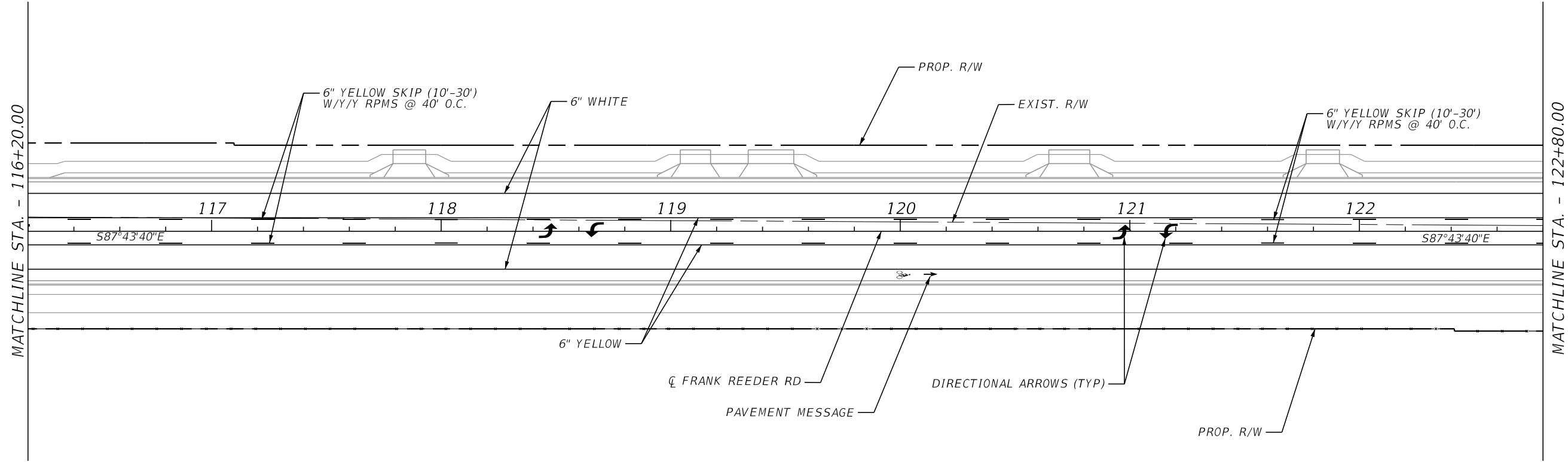
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PHASE	REVIEW	DATE	ORIGINATOR (OR)	CHECKER (CP)	ORIGINATOR (OR)	CHECKER (CP)	DATE	VERIFICATION CHECKER (CP)	REMARK INCORPORATION	DATE
SIGNATURE:										



<p><b>FRANK REEDER ROAD</b> ENGINEERING DESIGN SIGNING AND PAVEMENT MARKING PLAN</p>																					
																					
<p>KARLE ANDERSON, P.E. No. 73720</p>	<p>DATE: _____</p>																				
<p>PROJECT LOCATION: FRANK REEDER ROAD</p>	<p>PROJECT NUMBER: PD 21-23.P2</p>																				
<p><b>American CONSULTING</b> 4489 WOODBINE ROAD • P.O. Box 10708 • Tallahassee, FL 32309 Tel 904.289.1000 • Fax 904.289.1001 Certificate of Authorization No. 9302</p>																					
<table border="1"> <thead> <tr> <th>NUMBER</th> <th>REVISIONS</th> <th>DATE</th> <th>APPROVED BY</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>	NUMBER	REVISIONS	DATE	APPROVED BY																	<p>SHEET <b>79</b></p>
NUMBER	REVISIONS	DATE	APPROVED BY																		

PHASE	REVIEW	ORIGINATOR (OP)	DATE	ORIGINATOR (OR)	Correct (Green Highlighter) Change (Red Pen)	DATE	VERIFICATION CHECKER (VC)	(Blue Highlighter)	DATE
SIGNATURE:		CHECKER (CP)		CHECKER (CP)	(Red Pen X-Out to Disapprove or Remark)		REMARK INCORPORATION	(Blue Highlighter)	
		ORIGINATOR (OR)		ORIGINATOR (OR)	(Yellow Highlighter)		ORIGINATOR VERIFICATION	Correct (Red Highlighter)	

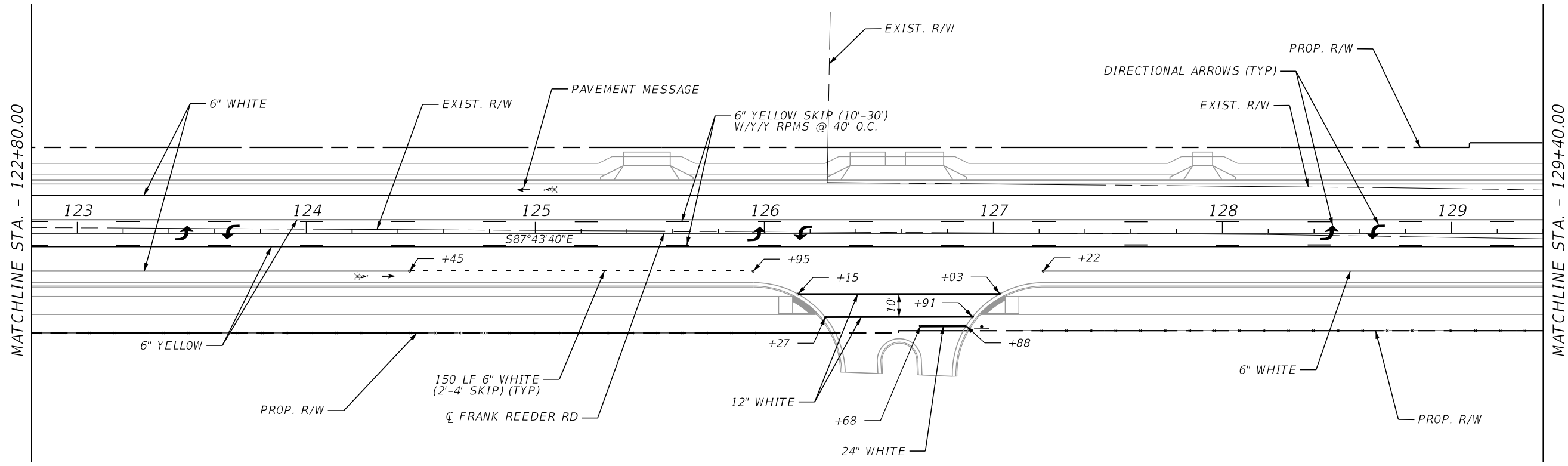




	
<b>FRANK REEDER ROAD</b> ENGINEERING DESIGN SIGNING AND PAVEMENT MARKING PLAN	
KARLE ANDERSON, P.E. No. 73720 DATE: _____ PROJECT LOCATION: FRANK REEDER ROAD PROJECT NUMBER: PD-21-23-002	PROJECT MANAGER: KARLE ANDERSON, PE
 American CONSULTING 7489 Woodbine Road • Ft. Walton Beach, Florida 32577 Tel 850.289.1000 • Fax 850.289.1001 Certificate of Authorization No. 9302	
NUMBER REVISIONS DATE APPROVED BY	SHEET 80



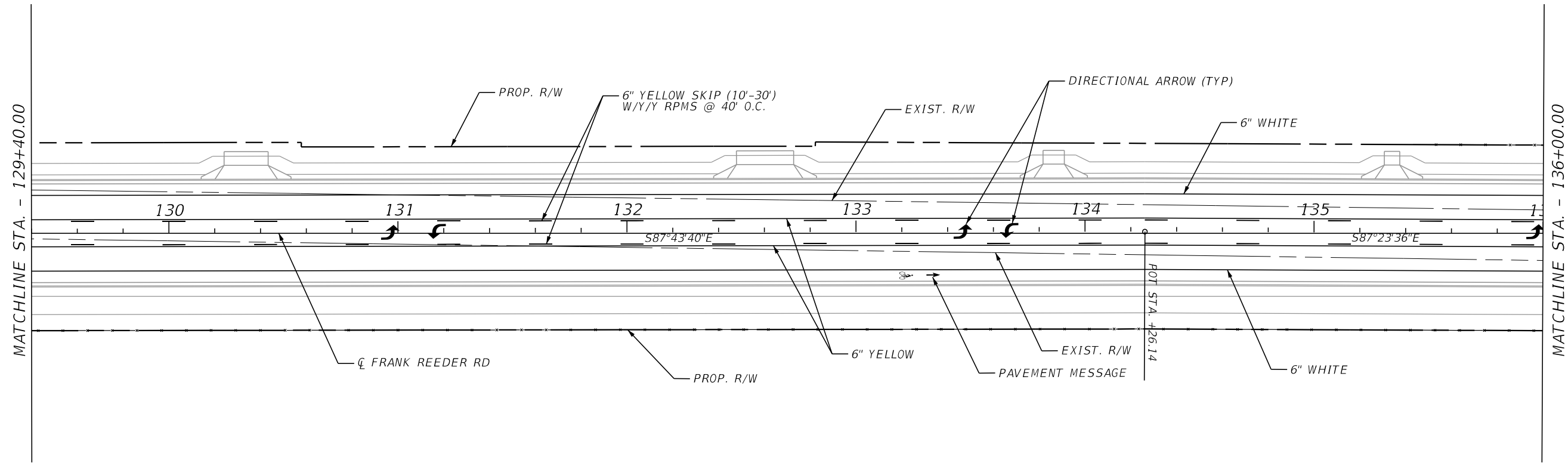
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PHASE	REVIEW	DATE	ORIGINATOR (OR)	CORRECT (Green Highlight) Change (Red Pen)	DATE	VERIFICATION CHECKER (VC)	(Blue Highlight)	DATE
SIGNATURE:			CHECKER (CP)	(Red Pen X-Out to Disapprove or Remark)		REMARK INCORPORATION	(Blue Highlight)	
			CHANGE INCORPORATION	(Yellow Highlight)		ORIGINATOR VERIFICATION	Correct (Penc Highlighter)	
			ORIGINATOR (OR)	PRODUCTION CHECKING COMPLETE, READY FOR SUBMITAL REVIEW (RP)	DATE			



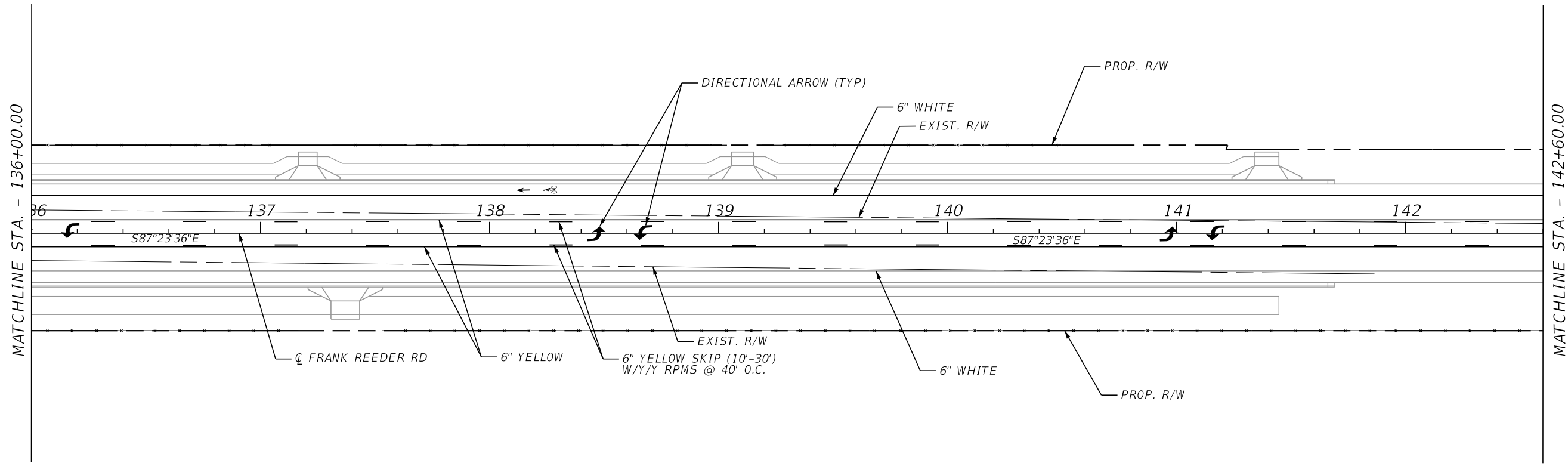
<p>FRANK REEDER ROAD ENGINEERING DESIGN SIGNING AND PAVEMENT MARKING PLAN</p>																	
																	
<p>KARLE ANDERSON, P.E. No. 73720</p>	<p>DATE: _____</p>																
<p>PROJECT LOCATION: FRANK REEDER ROAD</p>	<p>PROJECT NUMBER: PD 23-2302</p>																
<p>PROJECT MANAGER: KARLE ANDERSON, P.E.</p>																	
 <p>4489 WOODBINE ROAD • P.O. Box 37577 Tel 850.289.1000 • Fax 850.289.1001 Certificate of Authorization No. 9302</p>																	
<table border="1"> <tr> <th>NUMBER</th> <th>REVISIONS</th> <th>DATE</th> <th>APPROVED BY</th> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </table>	NUMBER	REVISIONS	DATE	APPROVED BY													<p>SHEET 81</p>
NUMBER	REVISIONS	DATE	APPROVED BY														

PHASE	REVIEW	ORIGINATOR (RP)	DATE	ORIGINATOR (RP)	DATE	ORIGINATOR (RP)	DATE	ORIGINATOR (RP)	DATE	ORIGINATOR (RP)	DATE	ORIGINATOR (RP)	DATE	ORIGINATOR (RP)	DATE	ORIGINATOR (RP)	DATE
SIGNATURE:		ORIGINATOR (RP)		CHECKER (RP)		ORIGINATOR (RP)		CHECKER (RP)		ORIGINATOR (RP)		CHECKER (RP)		ORIGINATOR (RP)		CHECKER (RP)	
		PRODUCTION CHECKING COMPLETE, READY FOR SUBMITTAL REVIEW (RP)		CHANGE INCORPORATION (Yellow Highlighter)		CORRECT (Green Highlighter) Change (Red Pen) (Red Pen X-Out to Disapprove or Remark)		VERIFICATION CHECKER (RP)		REMARK INCORPORATION (Blue Highlighter)		ORIGINATOR VERIFICATION (Blue Highlighter)		CORRECT (Red Highlighter)			



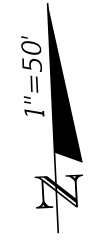
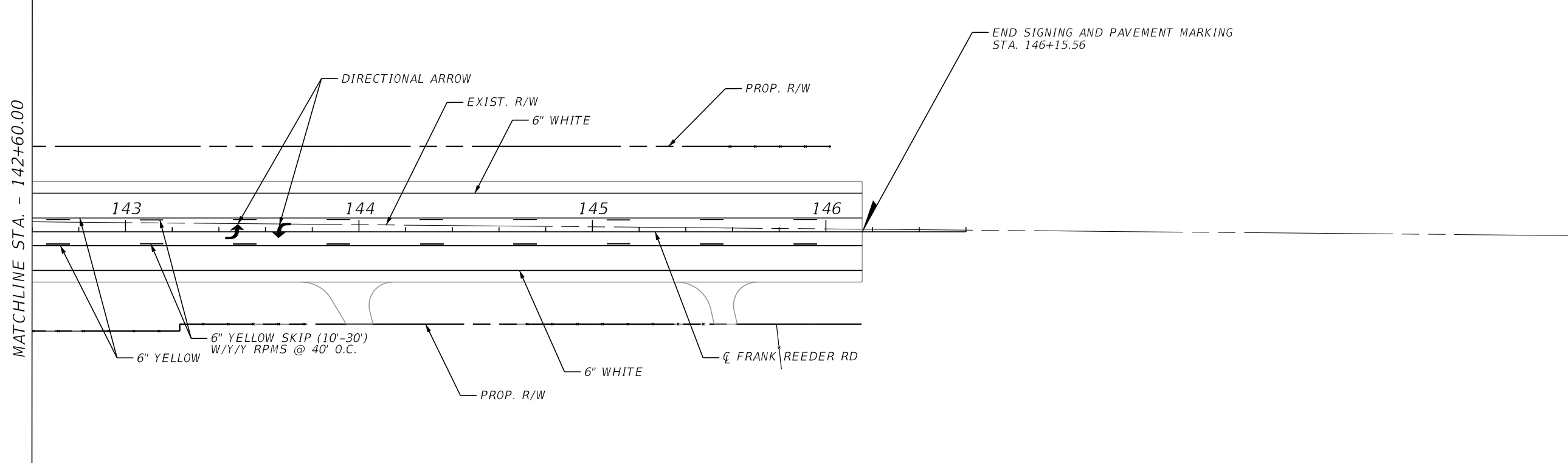
	
<b>FRANK REEDER ROAD</b> ENGINEERING DESIGN SIGNING AND PAVEMENT MARKING PLAN	
KARLE ANDERSON, P.E. No. 73720 DATE: _____ PROJECT LOCATION: FRANK REEDER ROAD PROJECT NUMBER: PD-21-23-002 PROJECT MANAGER: KARLE ANDERSON, P.E.	 4489 WOODBINE ROAD • P.O. Box 37577 Tallahassee, Florida 32317 Tel 904.289.1000 • Fax 904.289.1001 Certificate of Authorization No. 9302
NUMBER: _____ REVISIONS: _____ DATE: _____ APPROVAL BY: _____	SHEET 82

PHASE	REVIEW	ORIGINATOR (RP)	DATE	ORIGINATOR (RP)	DATE	ORIGINATOR (RP)	DATE	ORIGINATOR (RP)	DATE	ORIGINATOR (RP)	DATE	ORIGINATOR (RP)	DATE
SIGNATURE:													
VERIFICATION CHECKER (RP) (Blue Highlighter)													
REMARK INCORPORATION (Blue Highlighter)													
ORIGINATOR VERIFICATION (Blue Highlighter)													
CORRECT (Pink Highlighter)													



<b>FRANK REEDER ROAD</b> ENGINEERING DESIGN SIGNING AND PAVEMENT MARKING PLAN	
KARLE ANDERSON, P.E. No. 73720 DATE: _____ PROJECT LOCATION: FRANK REEDER ROAD PROJECT NUMBER: PD-21-23-002	PROJECT MANAGER: KARLE ANDERSON, P.E.
4489 WOODBINE ROAD • P.O. Box 32577 Tallahassee, Florida 32317 Tel 904.289.1000 • Fax 904.289.1001 Certificate of Authorization No. 9302	
NUMBER REVISIONS DATE APPROVED BY	SHEET 83

PHASE	REVIEW	ORIGINATOR (OP)	DATE	ORIGINATOR (OR)	Correct (Green Highlighter) Change (Red Pen)	DATE	VERIFICATION CHECKER (VC)	(Blue Highlighter)	DATE
SIGNATURE:		CHECKER (CP)	DATE	CHECKER (CP)	(Red Pen X-Out to Disagree or Remark)	DATE	REMARK INCORPORATION	(Blue Highlighter)	DATE
		CHANGE INCORPORATION	DATE	ORIGINATOR VERIFICATION	(Yellow Highlighter)	DATE	ORIGINATOR VERIFICATION	Correct (Penc Highlighter)	DATE



<p><b>FRANK REEDER ROAD</b> ENGINEERING DESIGN SIGNING AND PAVEMENT MARKING PLAN</p>	
PROJECT LOCATION: FRANK REEDER ROAD PROJECT NUMBER: PD-21-02092	PROJECT MANAGER: KARLE ANDERSON, PE
KARLE ANDERSON, P.E. No. 73720 DATE:	PROJECT NUMBER: PD-21-02092
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NUMBER REVISIONS	DATE APPROVED BY
SHEET <b>84</b>	