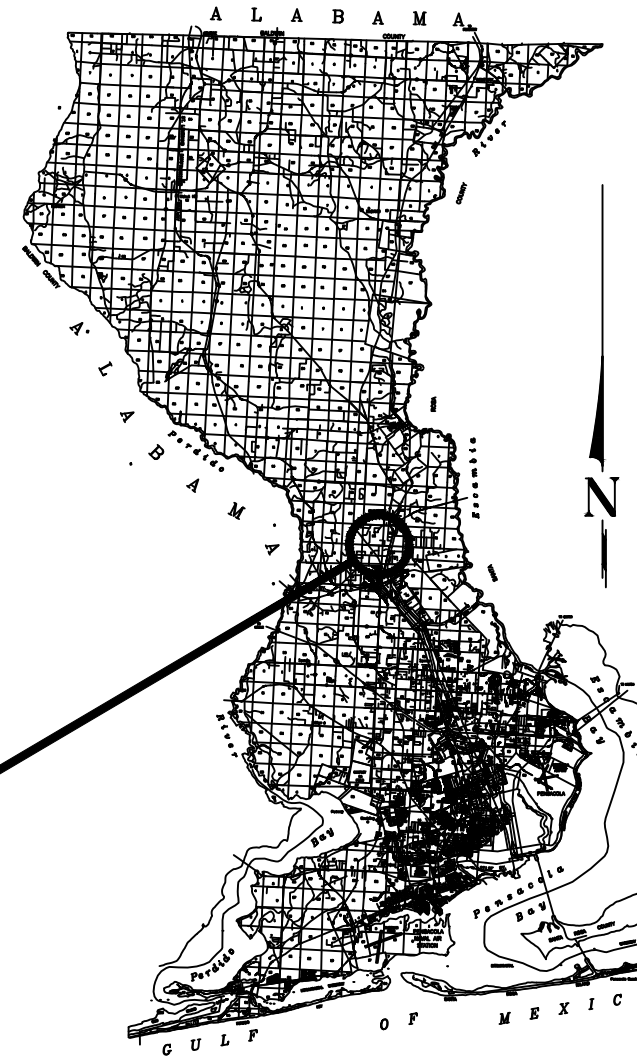




**BOARD OF COUNTY COMMISSIONERS
 ESCAMBIA COUNTY, FLORIDA
 PUBLIC WORKS DEPARTMENT
 ENGINEERING / INFRASTRUCTURE DIVISION**

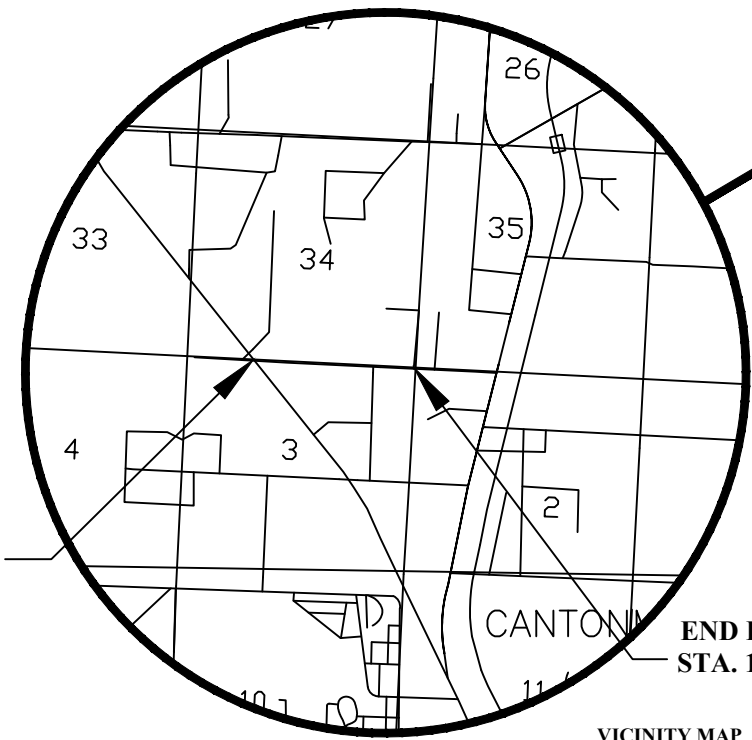


PD 02.03.79.52.15.ENG

**PLANS PROPOSED FOR
 CEDAR TREE LANE
 DIRT ROAD PAVING**

INDEX OF PLANS

SHEET NO.	SHEET DESCRIPTION
1	KEY SHEET
2	GENERAL NOTES
3	SUMMARY OF PLAN QUANTITIES
4-5	TYPICAL SECTION
6	PROJECT LAYOUT
7	DRAINAGE MAP
8-14	PLAN & PROFILE
15-27	CROSS SECTIONS
28-31	MISCELLANEOUS DETAILS



**BEGIN PROJECT
 STA. 102+59.63**

**END PROJECT
 STA. 136+71.90**

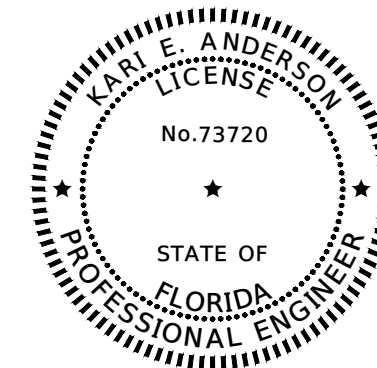
**VICINITY MAP
 NOT TO SCALE**

SCT 34 TWP 2N RGE 31W
 SCT 03 TWP 1N RGE 31W

COMMISSIONERS

- DISTRICT 1 **JEFF BERGOSH**
- DISTRICT 2 **MIKE KOHLER**
- DISTRICT 3 **LUMON MAY**
- DISTRICT 4 **VACANT**
- DISTRICT 5 **STEVEN BARRY, CHARIMAN**

*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.*

4489 WOODBINE RD.
 PACE, FL 32571
 PHONE: (850) 289-1013

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.*



GOVERNING STANDARDS AND SPECIFICATION:
 FLORIDA DEPARTMENT OF TRANSPORTATION, STANDARD PLANS DATED FY 2024-25, THE
 FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND
 BRIDGE CONSTRUCTION DATED FY 2024-25, 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](https://www.fdot.gov/design/standardplans/current)

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.

KEY SHEET REVISIONS	
DATE	DESCRIPTION

LENGTH OF PROJECT		
	LINEAR FEET	MILES
ROADWAY	3412	0.646
BRIDGES	0.00	0.000
NET LENGTH OF PROJECT	3412	0.646
EXCEPTIONS	0.00	0.000
GROSS LENGTH OF PROJECT	3412	0.646

ESCAMBIA COUNTY PROJECT MANAGER: JOHN ROSENAU

GENERAL NOTES

1. THE CONTRACTOR SHALL NOTIFY THE COUNTY DESIGN ENGINEER OR DESIGNEE 48 HOURS PRIOR TO BEGINNING 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 MONUMENTS 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 STOCKPILED 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. MAINTENANCE OF TRAFFIC AS PER FDOT INDEX 600.
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 AMERICAN 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 LIAISON 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 UTILITIES.
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 UTILITIES.

KNOWN UTILITIES OWNERS INCLUDE:

- | | |
|--|--|
| FIBER - AT&T/COMMUNICATION
KEVIN TALECKI / MIKE GAMBOA
(610) 200-3365 | POTABLE WATER - COTTAGE HILL WATER WORKS INC
DAVID TURNER
(850) 968-5485 |
| SEWER, WATER - EMERALD COAST UTILITY AUTHORITY
BRANDON KNIGHT, P.E.
(850) 969-6650 | NATURAL GAS - PENSACOLA ENERGY
DIANE MOORE
(850) 474-5319 |
| GAS - FLORIDA PUBLIC UTILITIES - PENSACOLA
BLAKE BJORKLUND
(850) 693-8458 | ELECTRIC - FLORIDA POWER & LIGHT - PENSACOLA NORTH
USIC DISPATCH CENTER
(800) 778-9140 |
| GAS - OKALOOSA GAS DISTRICT
ANSWERING SERVICE
850-729-4700 | TELEPHONE - AT&T/DISTRIBUTION
DINO FARRUGGIO
(561) 683-2729 |
| CATV - CHARTER COMMUNICATIONS
MICHAEL GRISSETT
(334) 676-4901 | |

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 UTILITIES.
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.

ESCAMBIA COUNTY PUBLIC WORKS
 3363 WEST PARK PLACE
 PENSACOLA, FLORIDA 32505



GENERAL NOTES

CEDAR TREE
 EAST DRP

4189 WOODBINE ROAD
 PACE, FLORIDA 32571
 PHONE: (850) 289-1000
 FAX: (850) 289-1001



PREPARED BY:

REVISIONS	
NO.	DESCRIPTION

DESIGNED BY:
 KEA
 2/24

DRAWN BY:
 JCB
 2/24

CHECKED BY:
 KEA
 2/24

APPROVED BY:

KARI E. ANDERSON, P.E.
 LIC. No. 73720

PROJECT NO.
 PD 02.03.79.52.15.ENG

SHEET NO.
 2

Summary of Plan Quantities

Item No.	Description	Unit	Quantity
	Clearing & Grubbing		
03100-00102	Clearing and Grubbing (Including Trees UNDER 12" dia.)	SY	25216
03100-00113	Replace Standard Mailbox with approved Heavy-Duty Plastic Mailbox w/ Rear Door and Post.	EA	17
	Earthwork		
04100-00101	Earthwork Excavation	CY	2805.0
04100-00104	Earthwork Borrow (Fill)	CY	3062.0
	Asphalt		
05200-00108	2" Type SP 12.5 Asphalt, over 1500sy	SY	8930
05600-00105	Remove Existing Asphalt, 2" Average Depth	SY	110
05600-00108	Saw cut Existing Asphalt	LF	66
	Roadway Preparation		
06100-00106	12" Stabilized Subgrade, over 1000sy	SY	11434
06200-00106	8" Graded aggregate Base "Min. LBR 100 at 100% Modified Proctor", over 1000sy	SY	7753
06300-00102	4" TYP B-12.5, LBR 100, over 1000sy	SY	1406
	Traffic		
07300-00106	Thermoplastic, 6" Solid Stripe, White or Yellow	LF	6142
07400-00100	Relocate Traffic Signs	EA	3
	Concrete		
08200-00101	4" Fiber Reinforced Concrete Driveway, over 50sy	SY	695
08400-00102	FDOT Type Reinforced Concrete Ditch Paving w/ Weep Holes, FDOT Index 281, Min 3.5" thick	SY	759
	Drainage		
09200-00703	14" X 23" ERCP Pipe, 0'-6' depth	LF	615
09200-00612	42" RCP Pipe, 6'-12' depth	LF	150
09300-00402	14" X 23" ERCP Side Drain MES, FDOT Index 273, 280	EA	36
09400-00102	Class II Concrete for Endwalls (Straight 42", Triple, Round)	CY	19.8
09400-00103	Reinforcing Steel for Endwalls (Straight 42", Triple, Round)	LB	97
09500-00102	Pipe Removal, 6"-24"	LF	213
09500-00105	Pipe Removal, 30" and larger	LF	41
09500-00109	Remove MES for 6"-24" (or equivalent) pipe	EA	8
	Stormwater Pollution Prevention		
13200-00103	Riprap, Rubble, F&I, Ditch Lining	TN	33.7
13100-00101	Centipede Sod, Staked	SY	11461
	Utility Adjustments		
N/A	Adjust Power Pole (Florida Power & Light)	EA	18
N/A	Adjust Telephone Pole (AT&T)	EA	4
N/A	Adjust Telephone Pedestal (AT&T)	EA	3
11400-00101	Adjust Water Meter (Emerald Coast Utility Authority)	EA	15
N/A	Adjust Water Line (Emerald Coast Utility Authority)	LS	1
17100-00101	Adjust Gas Valve (Okaloosa Gas District / Florida Public Utilities)	EA	5
N/A	Adjust Gas Line (Okaloosa Gas District / Florida Public Utilities)	LS	1
N/A	Adjust Gas Pipeline Marker (Okaloosa Gas District / Florida Public Utilities)	EA	5
N/A	Adjust Sewer Line (Emerald Coast Utility Authority)	LS	1

ESCAMBIA COUNTY PUBLIC WORKS
3363 WEST PARK PLACE
PENSACOLA, FLORIDA 32505



**SUMMARY OF
PLAN QUANTITIES**
**CEDAR TREE
EAST DRP**

4489 WOODBINE ROAD
PACE, FLORIDA 32571
PHONE: (850) 289-1000
FAX: (850) 289-1001



PREPARED BY:

REVISIONS	
NO.	DESCRIPTION

DESIGNED BY:
KEA
2/24

DRAWN BY:
JCB
2/24

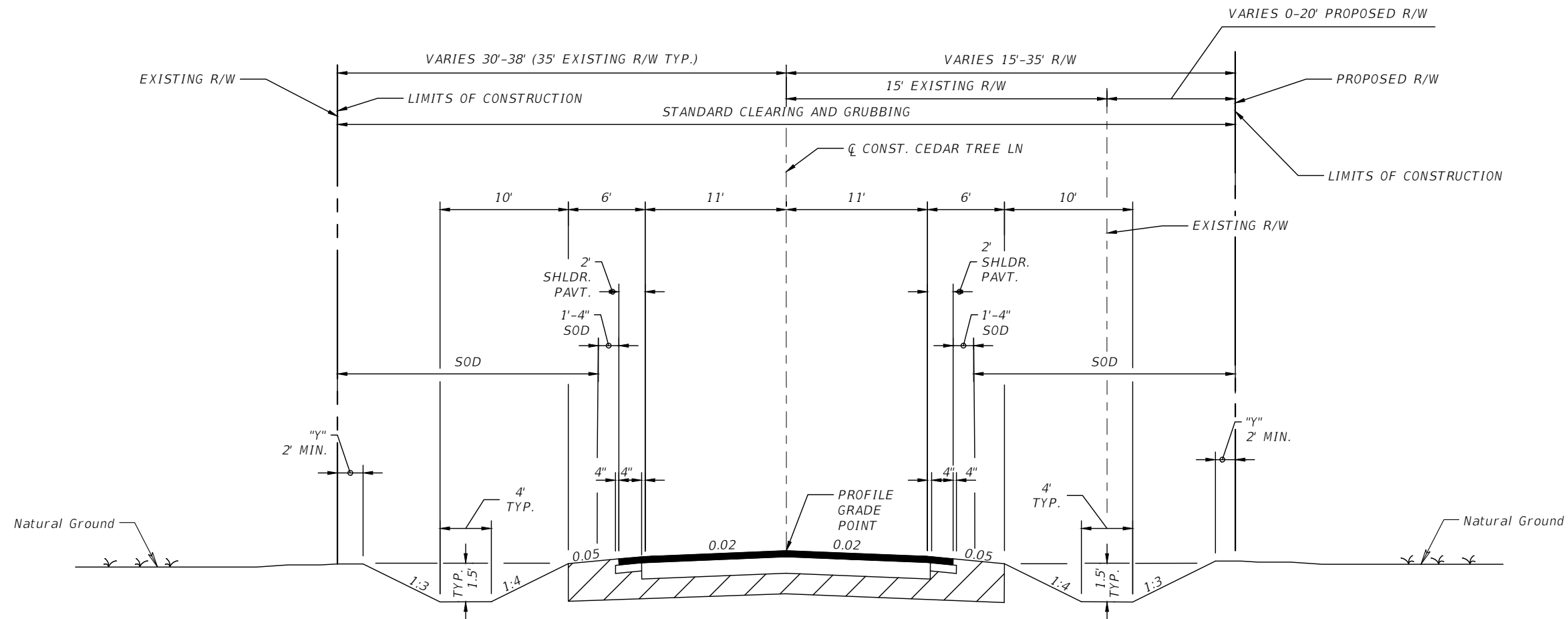
CHECKED BY:
KEA
2/24

APPROVED BY:

KARI E. ANDERSON, P.E.
LIC. No. 73720

PROJECT NO.
PD 02.03.79.52.15.ENG

SHEET NO.
3



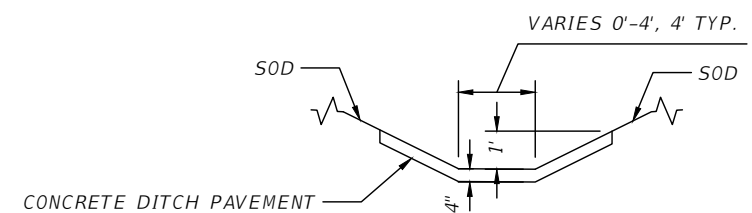
"Y" THE AREA DISTURBED BY CONSTRUCTION VARIES.

DESIGN SPEED=30 MPH
CLEAR ZONE = 12'

**TYPICAL SECTION
CEDAR TREE LANE**
STA. 105+76.00 TO STA. 113+79.31
STA. 118+50.00 TO STA. 122+50.00
STA. 132+50.00 TO STA. 136+47.37

**PAVEMENT DESIGN
TRAVEL LANES**
2" COUNTY SPEC. 2500 TYPE SP-12.5 ASPHALT
8" GRADED AGGREGATE BASE, LBR 100 @ 100% MODIFIED PROCTOR
12" STABILIZED SUBGRADE @ 98% MODIFIED PROCTOR

PAVED SHOULDER
2" COUNTY SPEC. 2500 TYPE SP-12.5 ASPHALT
4" TYPE B-12.5, LBR 100
12" STABILIZED SUBGRADE @ 98% MODIFIED PROCTOR



**DITCH PAVEMENT DETAIL
CEDAR TREE LANE**
STA. 102+59.63 RT. TO STA. 103+00.00 RT.
STA. 128+11.66 LT. TO STA. 132+42.17 LT.
STA. 135+00.00 LT. TO STA. 136+54.90 LT.
STA. 135+00.00 RT. TO STA. 136+71.90 RT.

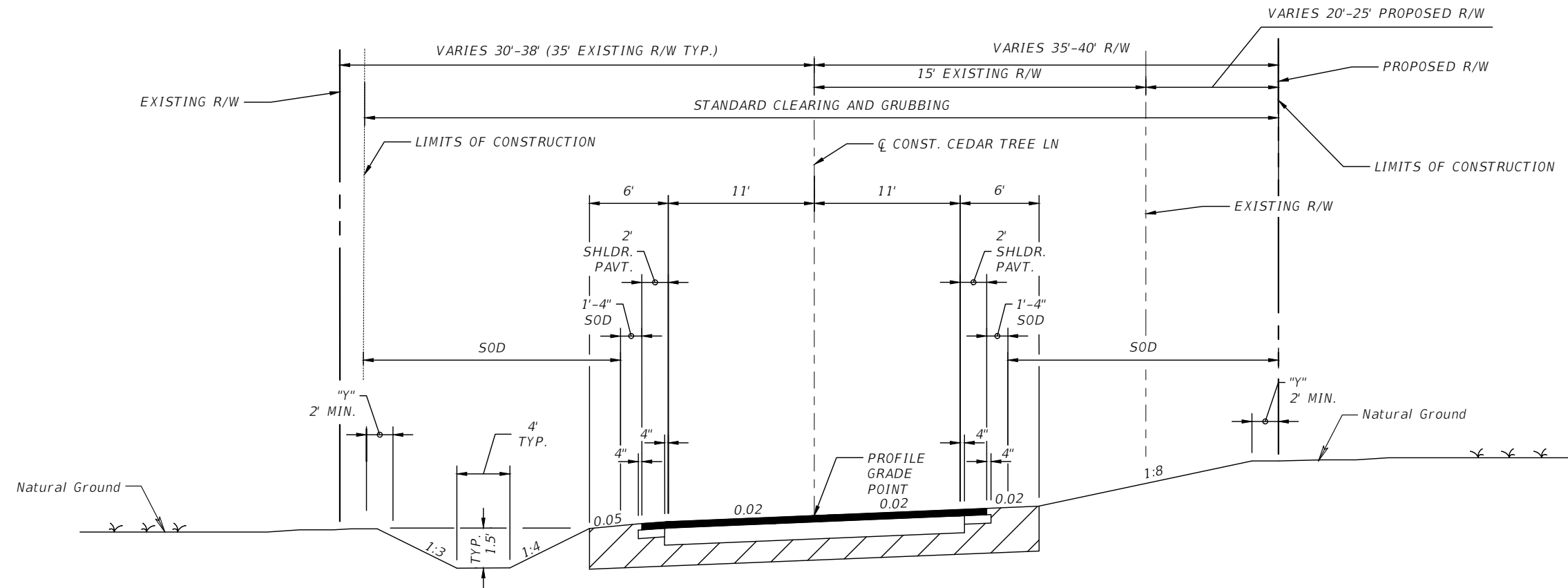
REVISIONS	
NO.	DESCRIPTION

DESIGNED BY:
KEA
2/24
DRAWN BY:
JCB
2/24
CHECKED BY:
KEA
2/24
APPROVED BY:

KARI E. ANDERSON, P.E.
LIC. No. 73720

PROJECT NO.
PD 02.03.79.52.15.ENG

SHEET NO.
4



"Y" THE AREA DISTURBED BY CONSTRUCTION VARIES.

DESIGN SPEED=30 MPH
CLEAR ZONE = 12'

**TYPICAL SECTION
CEDAR TREE LANE**
STA. 113+79.31 TO STA. 118+50.00
STA. 122+50.00 TO STA. 132+50.00

**PAVEMENT DESIGN
TRAVEL LANES**
2" COUNTY SPEC. 2500 TYPE SP-12.5 ASPHALT
8" GRADED AGGREGATE BASE, LBR 100 @ 100% MODIFIED PROCTOR
12" STABILIZED SUBGRADE @ 98% MODIFIED PROCTOR

PAVED SHOULDER
2" COUNTY SPEC. 2500 TYPE SP-12.5 ASPHALT
4" TYPE B-12.5, LBR 100
12" STABILIZED SUBGRADE @ 98% MODIFIED PROCTOR

REVISIONS	
NO.	DESCRIPTION

DESIGNED BY:
KEA
2/24

DRAWN BY:
JCB
2/24

CHECKED BY:
KEA
2/24

APPROVED BY:

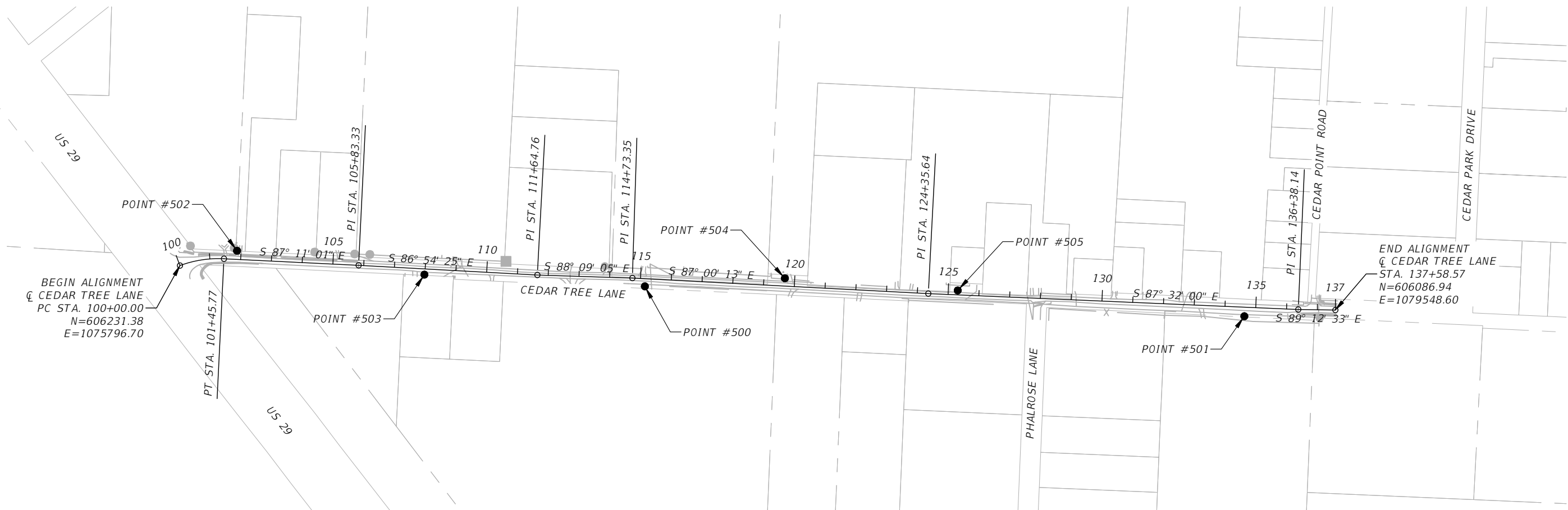
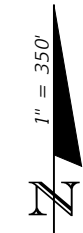
KARI E. ANDERSON, P.E.
LIC. No. 73720

PROJECT NO.
PD 02.03.79.52.15.ENG

SHEET NO.
5

CURVE DATA Cedar Tree Lane (1)

PI STA. = 100+73.90
 DELTA = 23° 12' 01"
 D = 15° 54' 56"
 T = 73.90
 L = 145.77
 R = 360.00
 PC STA. = 100+00.00
 PT STA. = 101+45.77



LEGEND & ABBREVIATIONS:

- = 5/8" IRON ROD & CAP
- TRAV.PT. = TRAVERSE POINT
- SSMC = SOUTHEASTERN SURVEYING & MAPPING CORPORATION

BENCHMARK DATA TABLE				
POINT #	DESCRIPTION	ELEVATION	NORTHING	EASTING
502	CIRC SET 5/8" SSMC TRAV PT RTK	102.70	606279.50	1075982.30
503	CIRC SET 5/8" SSMC TRAV PT RTK	114.39	606202.00	1076590.62
500	CIRC SET 5/8" SSMC TRAV PT NRTK	126.48	606163.81	1077306.48
504	CIRC SET 5/8" SSMC TRAV PT RTK	118.22	606190.05	1077761.11
505	CIRC SET 5/8" SSMC TRAV PT RTK	121.84	606150.64	1078322.48
501	CIRC SET 5/8" SSMC TRAV PT NRTK	97.94	606066.79	1079253.00

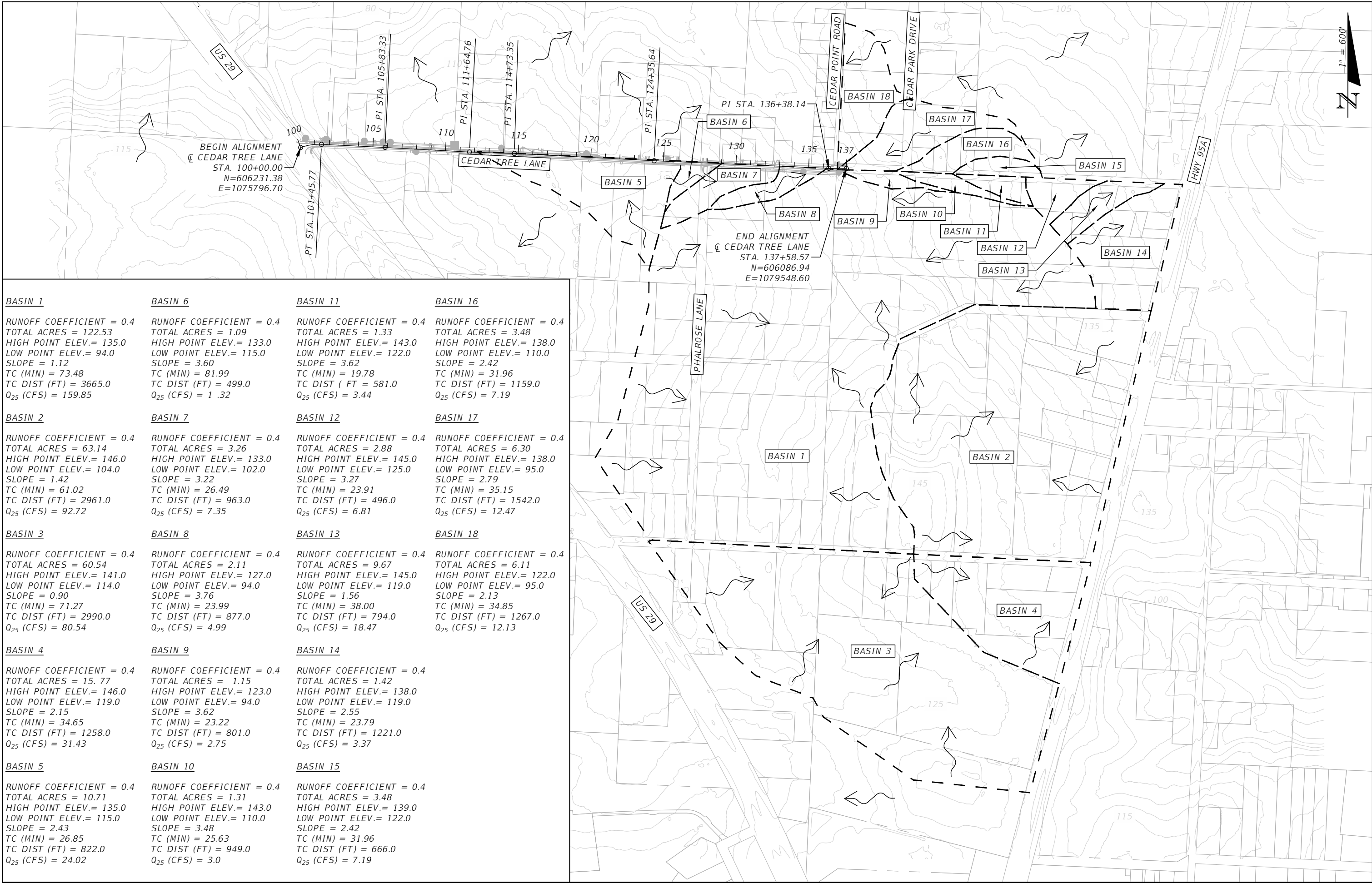
REVISIONS	
NO.	DESCRIPTION

DESIGNED BY:
 KEA
 2/24
 DRAWN BY:
 JCB
 2/24
 CHECKED BY:
 KEA
 2/24
 APPROVED BY:

KARI E. ANDERSON, P.E.
 LIC. No. 73720

PROJECT NO.
 PD 02.03.79.52.15.ENG

SHEET NO.
 6



<p>BASIN 1</p> <p>RUNOFF COEFFICIENT = 0.4 TOTAL ACRES = 122.53 HIGH POINT ELEV.= 135.0 LOW POINT ELEV.= 94.0 SLOPE = 1.12 TC (MIN) = 73.48 TC DIST (FT) = 3665.0 Q₂₅ (CFS) = 159.85</p>	<p>BASIN 6</p> <p>RUNOFF COEFFICIENT = 0.4 TOTAL ACRES = 1.09 HIGH POINT ELEV.= 133.0 LOW POINT ELEV.= 115.0 SLOPE = 3.60 TC (MIN) = 81.99 TC DIST (FT) = 499.0 Q₂₅ (CFS) = 1.32</p>	<p>BASIN 11</p> <p>RUNOFF COEFFICIENT = 0.4 TOTAL ACRES = 1.33 HIGH POINT ELEV.= 143.0 LOW POINT ELEV.= 122.0 SLOPE = 3.62 TC (MIN) = 19.78 TC DIST (FT) = 581.0 Q₂₅ (CFS) = 3.44</p>	<p>BASIN 16</p> <p>RUNOFF COEFFICIENT = 0.4 TOTAL ACRES = 3.48 HIGH POINT ELEV.= 138.0 LOW POINT ELEV.= 110.0 SLOPE = 2.42 TC (MIN) = 31.96 TC DIST (FT) = 1159.0 Q₂₅ (CFS) = 7.19</p>
<p>BASIN 2</p> <p>RUNOFF COEFFICIENT = 0.4 TOTAL ACRES = 63.14 HIGH POINT ELEV.= 146.0 LOW POINT ELEV.= 104.0 SLOPE = 1.42 TC (MIN) = 61.02 TC DIST (FT) = 2961.0 Q₂₅ (CFS) = 92.72</p>	<p>BASIN 7</p> <p>RUNOFF COEFFICIENT = 0.4 TOTAL ACRES = 3.26 HIGH POINT ELEV.= 133.0 LOW POINT ELEV.= 102.0 SLOPE = 3.22 TC (MIN) = 26.49 TC DIST (FT) = 963.0 Q₂₅ (CFS) = 7.35</p>	<p>BASIN 12</p> <p>RUNOFF COEFFICIENT = 0.4 TOTAL ACRES = 2.88 HIGH POINT ELEV.= 145.0 LOW POINT ELEV.= 125.0 SLOPE = 3.27 TC (MIN) = 23.91 TC DIST (FT) = 496.0 Q₂₅ (CFS) = 6.81</p>	<p>BASIN 17</p> <p>RUNOFF COEFFICIENT = 0.4 TOTAL ACRES = 6.30 HIGH POINT ELEV.= 138.0 LOW POINT ELEV.= 95.0 SLOPE = 2.79 TC (MIN) = 35.15 TC DIST (FT) = 1542.0 Q₂₅ (CFS) = 12.47</p>
<p>BASIN 3</p> <p>RUNOFF COEFFICIENT = 0.4 TOTAL ACRES = 60.54 HIGH POINT ELEV.= 141.0 LOW POINT ELEV.= 114.0 SLOPE = 0.90 TC (MIN) = 71.27 TC DIST (FT) = 2990.0 Q₂₅ (CFS) = 80.54</p>	<p>BASIN 8</p> <p>RUNOFF COEFFICIENT = 0.4 TOTAL ACRES = 2.11 HIGH POINT ELEV.= 127.0 LOW POINT ELEV.= 94.0 SLOPE = 3.76 TC (MIN) = 23.99 TC DIST (FT) = 877.0 Q₂₅ (CFS) = 4.99</p>	<p>BASIN 13</p> <p>RUNOFF COEFFICIENT = 0.4 TOTAL ACRES = 9.67 HIGH POINT ELEV.= 145.0 LOW POINT ELEV.= 119.0 SLOPE = 1.56 TC (MIN) = 38.00 TC DIST (FT) = 794.0 Q₂₅ (CFS) = 18.47</p>	<p>BASIN 18</p> <p>RUNOFF COEFFICIENT = 0.4 TOTAL ACRES = 6.11 HIGH POINT ELEV.= 122.0 LOW POINT ELEV.= 95.0 SLOPE = 2.13 TC (MIN) = 34.85 TC DIST (FT) = 1267.0 Q₂₅ (CFS) = 12.13</p>
<p>BASIN 4</p> <p>RUNOFF COEFFICIENT = 0.4 TOTAL ACRES = 15.77 HIGH POINT ELEV.= 146.0 LOW POINT ELEV.= 119.0 SLOPE = 2.15 TC (MIN) = 34.65 TC DIST (FT) = 1258.0 Q₂₅ (CFS) = 31.43</p>	<p>BASIN 9</p> <p>RUNOFF COEFFICIENT = 0.4 TOTAL ACRES = 1.15 HIGH POINT ELEV.= 123.0 LOW POINT ELEV.= 94.0 SLOPE = 3.62 TC (MIN) = 23.22 TC DIST (FT) = 801.0 Q₂₅ (CFS) = 2.75</p>	<p>BASIN 14</p> <p>RUNOFF COEFFICIENT = 0.4 TOTAL ACRES = 1.42 HIGH POINT ELEV.= 138.0 LOW POINT ELEV.= 119.0 SLOPE = 2.55 TC (MIN) = 23.79 TC DIST (FT) = 1221.0 Q₂₅ (CFS) = 3.37</p>	
<p>BASIN 5</p> <p>RUNOFF COEFFICIENT = 0.4 TOTAL ACRES = 10.71 HIGH POINT ELEV.= 135.0 LOW POINT ELEV.= 115.0 SLOPE = 2.43 TC (MIN) = 26.85 TC DIST (FT) = 822.0 Q₂₅ (CFS) = 24.02</p>	<p>BASIN 10</p> <p>RUNOFF COEFFICIENT = 0.4 TOTAL ACRES = 1.31 HIGH POINT ELEV.= 143.0 LOW POINT ELEV.= 110.0 SLOPE = 3.48 TC (MIN) = 25.63 TC DIST (FT) = 949.0 Q₂₅ (CFS) = 3.0</p>	<p>BASIN 15</p> <p>RUNOFF COEFFICIENT = 0.4 TOTAL ACRES = 3.48 HIGH POINT ELEV.= 139.0 LOW POINT ELEV.= 122.0 SLOPE = 2.42 TC (MIN) = 31.96 TC DIST (FT) = 666.0 Q₂₅ (CFS) = 7.19</p>	

ESCAMBIA COUNTY PUBLIC WORKS
3363 WEST PARK PLACE
PENSACOLA, FLORIDA 32505

DRAINAGE MAP
CEDAR TREE EAST DRP

4489 WOODBINE ROAD
PALM BEACH, FLORIDA 33471
PHONE: (850) 289-1000
FAX: (850) 289-1001



REVISIONS	
NO.	DESCRIPTION

DESIGNED BY:
KEA
2/24

DRAWN BY:
JCB
2/24

CHECKED BY:
KEA
2/24

APPROVED BY:

KARI E. ANDERSON, P.E.
LIC. No. 73720

PROJECT NO.
PD 02.03.79.52.15.ENG

SHEET NO.
7

PROPERTY OWNER: DIOCESE OF PENSACOLA TALLAHASSEE
 SITE ADDRESS: CEDAR TREE AND HWY 29
 CANTONMENT, FL 32533
 MAILING ADDRESS: 11 N B ST
 PENSACOLA, FL 32502

PROPERTY OWNER: NWF LAND DEALS INC
 SITE ADDRESS: 800 BLK CEDAR TREE LN
 CANTONMENT, FL 32533
 MAILING ADDRESS: 801 VIRECENT ROAD
 CANTONMENT, FL 32533

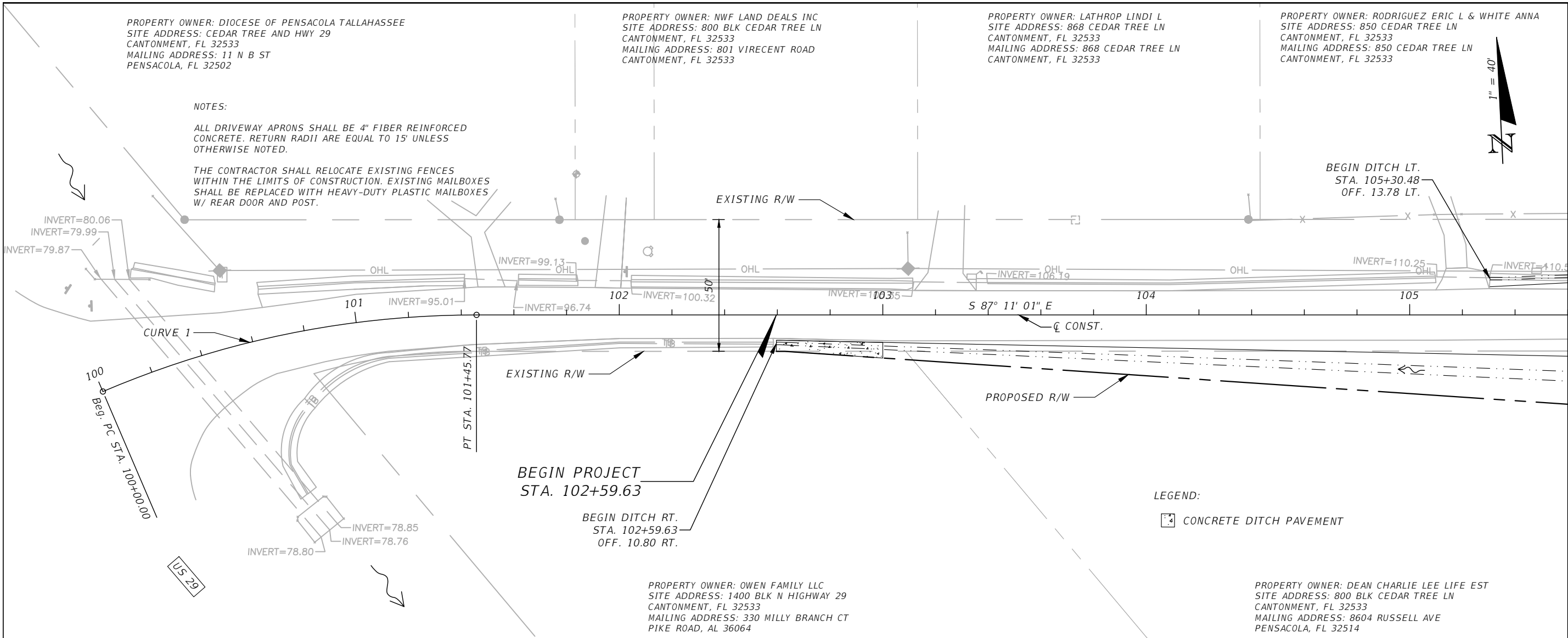
PROPERTY OWNER: LATHROP LINDI L
 SITE ADDRESS: 868 CEDAR TREE LN
 CANTONMENT, FL 32533
 MAILING ADDRESS: 868 CEDAR TREE LN
 CANTONMENT, FL 32533

PROPERTY OWNER: RODRIGUEZ ERIC L & WHITE ANNA
 SITE ADDRESS: 850 CEDAR TREE LN
 CANTONMENT, FL 32533
 MAILING ADDRESS: 850 CEDAR TREE LN
 CANTONMENT, FL 32533

NOTES:

ALL DRIVEWAY APRONS SHALL BE 4" FIBER REINFORCED CONCRETE. RETURN RADII ARE EQUAL TO 15' UNLESS OTHERWISE NOTED.

THE CONTRACTOR SHALL RELOCATE EXISTING FENCES WITHIN THE LIMITS OF CONSTRUCTION. EXISTING MAILBOXES SHALL BE REPLACED WITH HEAVY-DUTY PLASTIC MAILBOXES W/ REAR DOOR AND POST.



MATCHLINE STA. - 105+60.00

ESCAMBIA COUNTY PUBLIC WORKS
 3363 WEST PARK PLACE
 PENSACOLA, FLORIDA 32505

PLAN &
 PROFILE (1)
 CEDAR TREE
 EAST DRP

4889 WOODBINE ROAD
 PACE, FLORIDA 32571
 PHONE: (850) 289-1000
 FAX: (850) 289-1001



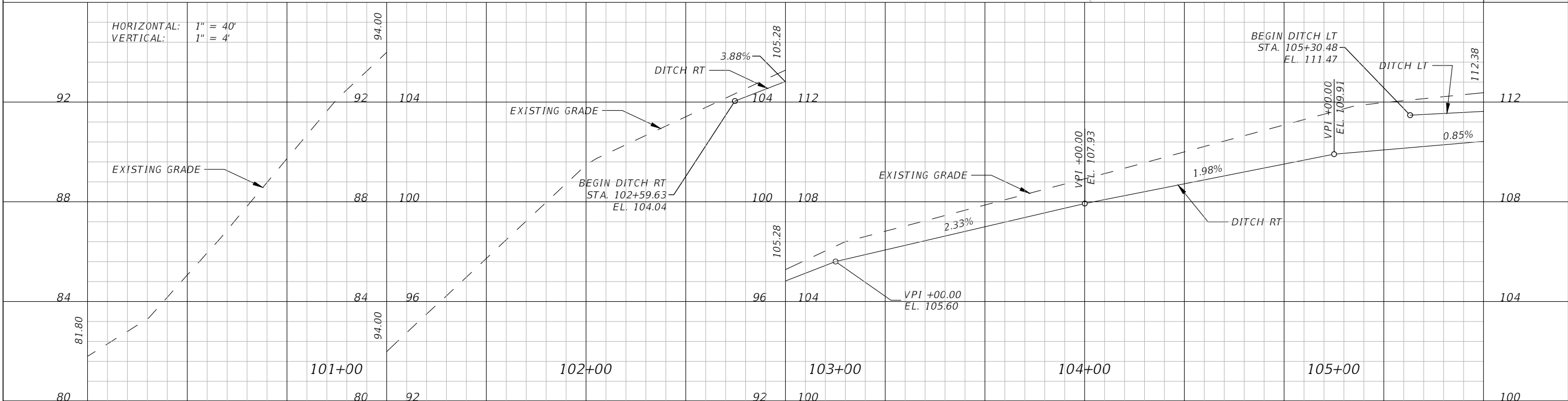
REVISIONS	
NO.	DESCRIPTION

DESIGNED BY: KEA 2/24
 DRAWN BY: JCB 2/24
 CHECKED BY: KEA 2/24
 APPROVED BY:

KARI E. ANDERSON, P.E.
 LIC. No. 73720

PROJECT NO.
 PD 02.03.79.52.15.ENG

SHEET NO.
 8

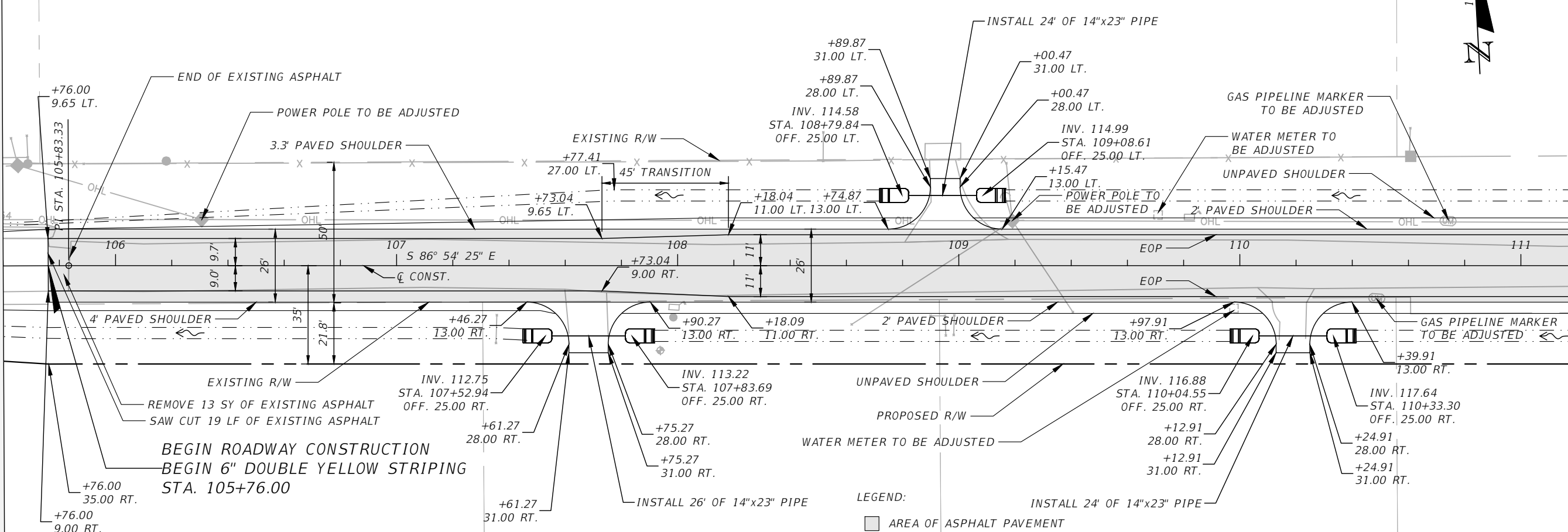


PROPERTY OWNER: BECK RICHARD BECK KRISTEN H
 SITE ADDRESS: 795 CEDAR TREE LN
 CANTONMENT, FL 32533
 MAILING ADDRESS: 795 CEDAR TREE LN
 CANTONMENT, FL 32533



MATCHLINE STA. - 105+60.00

MATCHLINE STA. - 111+20.00



BEGIN ROADWAY CONSTRUCTION
 BEGIN 6" DOUBLE YELLOW STRIPING
 STA. 105+76.00

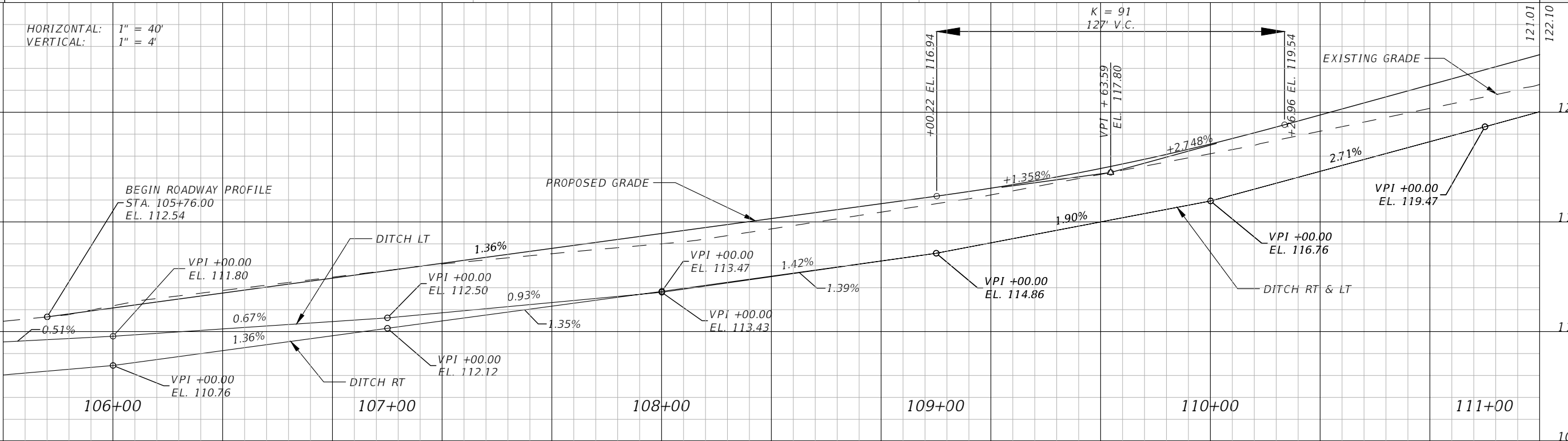
PROPERTY OWNER: DEAN CHARLIE LEE LIFE EST
 SITE ADDRESS: 800 BLK CEDAR TREE LN
 CANTONMENT, FL 32533
 MAILING ADDRESS: 8604 RUSSELL AVE
 PENSACOLA, FL 32514

PROPERTY OWNER: MCDONALD LYNDA LIFE EST
 SITE ADDRESS: 801 CEDAR TREE LN
 CANTONMENT, FL 32533
 MAILING ADDRESS: 801 CEDAR TREE RD
 CANTONMENT, FL 32533

PROPERTY OWNER: WERDUNG DAVID A LIFE EST
 SITE ADDRESS: 793 CEDAR TREE LN
 CANTONMENT, FL 32533
 MAILING ADDRESS: 793 CEDAR TREE LN
 CANTONMENT, FL 32533

LEGEND:
 [Symbol] AREA OF ASPHALT PAVEMENT

HORIZONTAL: 1" = 40'
 VERTICAL: 1" = 4'



ESCAMBIA COUNTY PUBLIC WORKS
 3363 WEST PARK PLACE
 PENSACOLA, FLORIDA 32505

PLAN &
 PROFILE (2)
 CEDAR TREE
 EAST DRP

4889 WOODBINE ROAD
 PACE, FLORIDA 32571
 PHONE: (850) 289-1000
 FAX: (850) 289-1001



PREPARED BY:

NO.	REVISIONS DESCRIPTION

DESIGNED BY: KEA 2/24
 DRAWN BY: JCB 2/24
 CHECKED BY: KEA 2/24
 APPROVED BY:

KARI E. ANDERSON, P.E.
 LIC. No. 73720

PROJECT NO.
 PD 02.03.79.52.15.ENG

SHEET NO.
 9

MATCHLINE STA. - 111+20.00

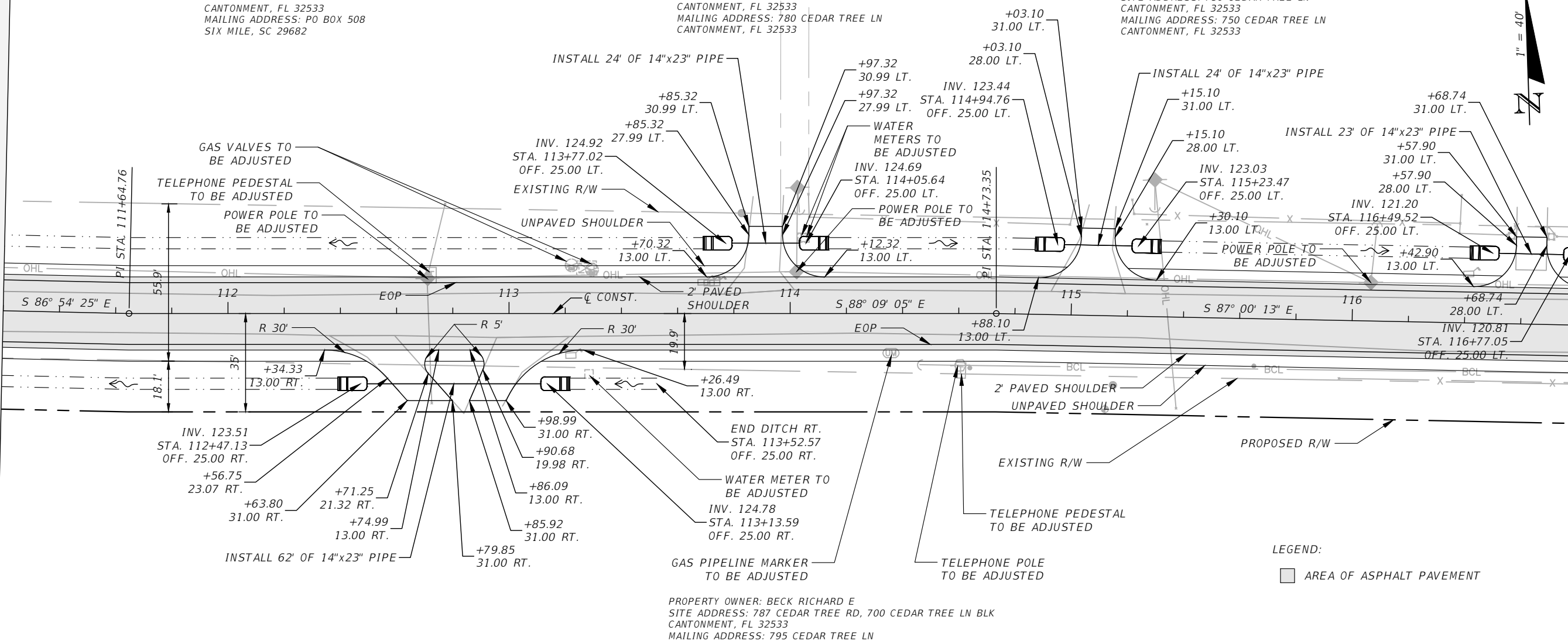
MATCHLINE STA. - 116+80.00

PROPERTY OWNER: RICHBURG WILLIAM P
SITE ADDRESS: 790 CEDAR TREE LN
CANTONMENT, FL 32533
MAILING ADDRESS: PO BOX 508
SIX MILE, SC 29682

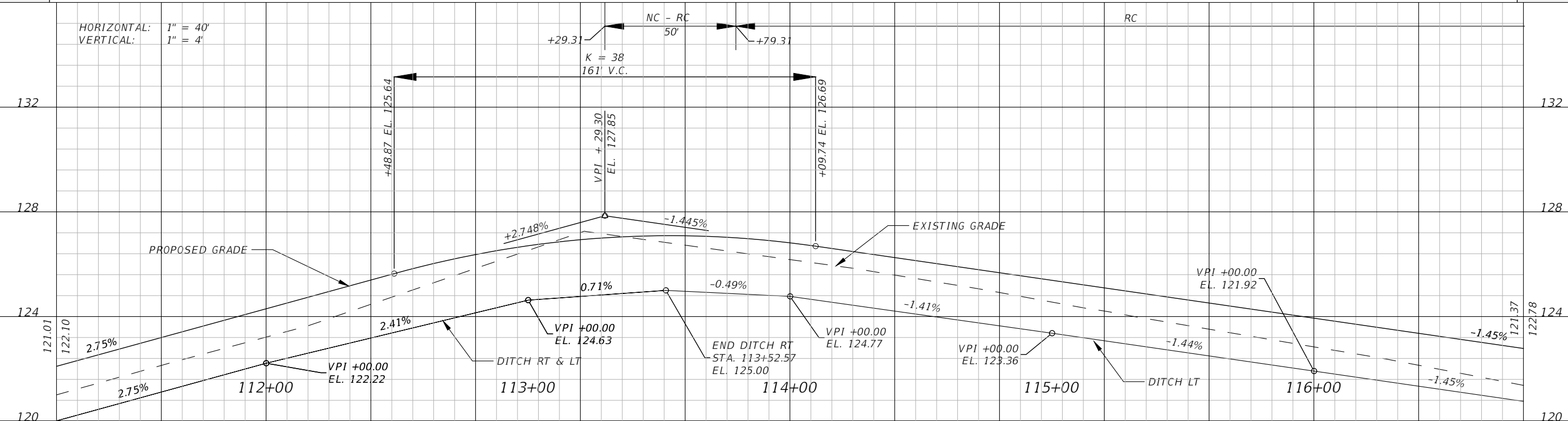
PROPERTY OWNER: WESTERGREEN DEBRA MICHELLE
SITE ADDRESS: 780 CEDAR TREE LN
CANTONMENT, FL 32533
MAILING ADDRESS: 780 CEDAR TREE LN
CANTONMENT, FL 32533

PROPERTY OWNER: FETZER JOHN C & JANE M
SITE ADDRESS: 750 CEDAR TREE LN
CANTONMENT, FL 32533
MAILING ADDRESS: 750 CEDAR TREE LN
CANTONMENT, FL 32533

PROPERTY OWNER: BECK RICHARD E
SITE ADDRESS: 787 CEDAR TREE RD, 700 CEDAR TREE LN BLK
CANTONMENT, FL 32533
MAILING ADDRESS: 795 CEDAR TREE LN
CANTONMENT, FL 32533



HORIZONTAL: 1" = 40'
VERTICAL: 1" = 4'



ESCAMBIA COUNTY PUBLIC WORKS
3363 WEST PARK PLACE
PENSACOLA, FLORIDA 32505

PLAN & PROFILE (3)
CEDAR TREE EAST DRP

4889 WOODBINE ROAD
PACE, FLORIDA 32571
PHONE: (850) 289-1000
FAX: (850) 289-1001



PREPARED BY:

NO.	DESCRIPTION

DESIGNED BY: KEA 2/24
DRAWN BY: JCB 2/24
CHECKED BY: KEA 2/24
APPROVED BY:

KARI E. ANDERSON, P.E.
LIC. No. 73720

PROJECT NO.
PD 02.03.79.52.15.ENG

SHEET NO.
10

PROPERTY OWNER: FETZER JOHN C & JANE M
 SITE ADDRESS: 750 CEDAR TREE LN
 CANTONMENT, FL 32533
 MAILING ADDRESS: 750 CEDAR TREE LN
 CANTONMENT, FL 32533

PROPERTY OWNER: COX JIMMY R & CONNIE P
 SITE ADDRESS: 690 CEDAR TREE RD
 CANTONMENT, FL 32533
 MAILING ADDRESS: 690 CEDAR TREE RD
 CANTONMENT, FL 32533

PROPERTY OWNER: STROMBERG ARTHUR III 1/2 & BRADLEY 1/2
 SITE ADDRESS: 620 CEDAR TREE LN
 CANTONMENT, FL 32533
 MAILING ADDRESS: 620 CEDAR TREE LN
 CANTONMENT, FL 32533

PROPERTY OWNER: BECK RICHARD E
 SITE ADDRESS: 787 CEDAR TREE RD, 700 CEDAR TREE LN BLK
 CANTONMENT, FL 32533
 MAILING ADDRESS: 795 CEDAR TREE LN
 CANTONMENT, FL 32533

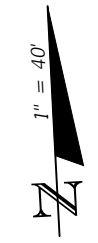
PROPERTY OWNER: COLBERT CHRISTOPHER C & COLBERT JENNIFER N
 SITE ADDRESS: 665 CEDAR TREE LN
 CANTONMENT, FL 32533
 MAILING ADDRESS: 665 CEDAR TREE LN
 CANTONMENT, FL 32533

PROPERTY OWNER: FEHL KENNETH P
 SITE ADDRESS: 591 CEDAR TREE LN
 CANTONMENT, FL 32533
 MAILING ADDRESS: 591 CEDAR TREE LN
 CANTONMENT, FL 32533

LEGEND:
 [Symbol] AREA OF ASPHALT PAVEMENT
 [Symbol] RIPRAP

MATCHLINE STA. - 116+80.00

MATCHLINE STA. - 122+40.00



ESCAMBIA COUNTY PUBLIC WORKS
 3363 WEST PARK PLACE
 PENSACOLA, FLORIDA 32505

PLAN &
 PROFILE (4)
 CEDAR TREE
 EAST DRP

4885 WOODBINE ROAD
 PACE, FLORIDA 32571
 PHONE: (850) 289-1000
 FAX: (850) 289-1001



REVISIONS	
NO.	DESCRIPTION

DESIGNED BY:
KEA
2/24

DRAWN BY:
JCB
2/24

CHECKED BY:
KEA
2/24

APPROVED BY:

KARI E. ANDERSON, P.E.
LIC. No. 73720

PROJECT NO.
PD 02.03.79.52.15.ENG

SHEET NO.
11

MATCHLINE STA. - 122+40.00

MATCHLINE STA. - 128+00.00

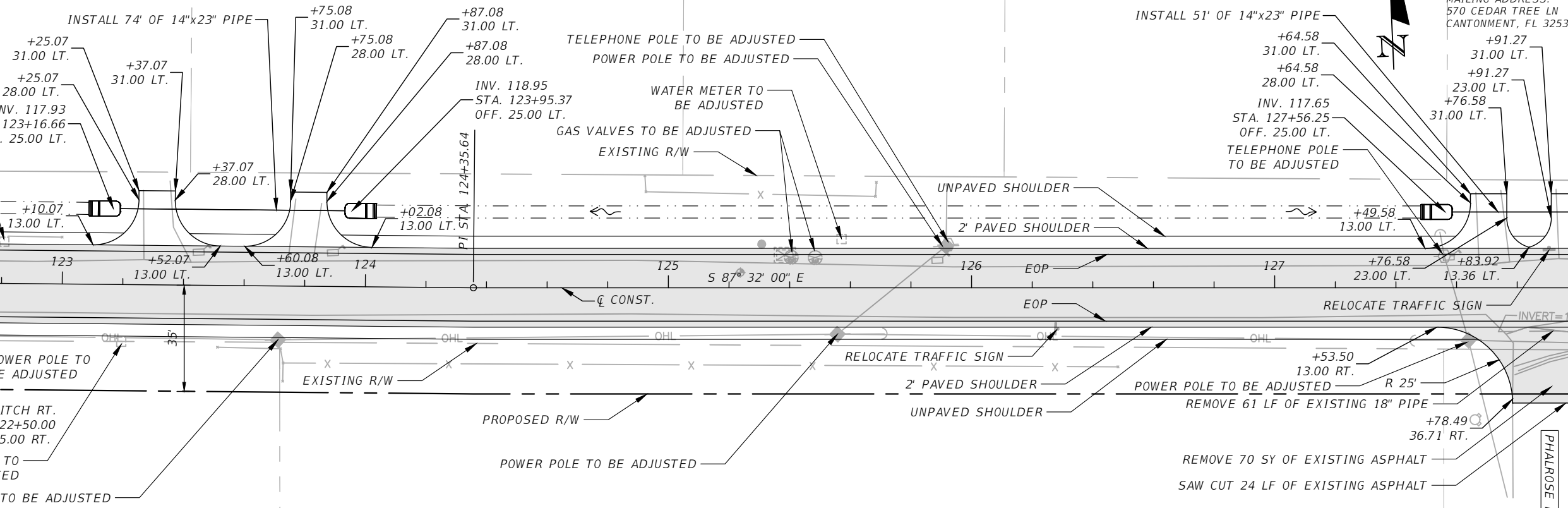
PROPERTY OWNER: STROMBERG ARTHUR III 1/2 & BRADLEY 1/2
SITE ADDRESS: 620 CEDAR TREE LN
CANTONMENT, FL 32533
MAILING ADDRESS: 620 CEDAR TREE LN
CANTONMENT, FL 32533

PROPERTY OWNER: MCCALL HELEN M EST OF STROMBERG
SITE ADDRESS: 570 CEDAR TREE LN
CANTONMENT, FL 32533
MAILING ADDRESS: 570 CEDAR TREE LN
CANTONMENT, FL 32533

PROPERTY OWNER: BASSETT BRENDA F
SITE ADDRESS: 588 CEDAR TREE LN
CANTONMENT, FL 32533
MAILING ADDRESS: 588 CEDAR TREE RD
CANTONMENT, FL 32533

PROPERTY OWNER: STROMBERG SUSAN E
SITE ADDRESS: 580 CEDAR TREE LN
CANTONMENT, FL 32533
MAILING ADDRESS: 630 CEDAR TREE LN
CANTONMENT, FL 32533

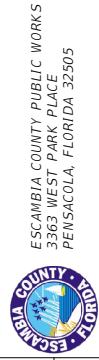
PROPERTY OWNER: MCCALL HELEN M EST OF STROMBERG
SITE ADDRESS: 570 CEDAR TREE LN
CANTONMENT, FL 32533
MAILING ADDRESS: 570 CEDAR TREE LN
CANTONMENT, FL 32533



LEGEND:
□ AREA OF ASPHALT PAVEMENT

PROPERTY OWNER: FEHL KENNETH P
SITE ADDRESS: 591 CEDAR TREE LN
CANTONMENT, FL 32533
MAILING ADDRESS: 591 CEDARTREE LN
CANTONMENT, FL 32533

PROPERTY OWNER: PENEGAR TAMMIE D TRUSTEE FOR KNOWLES
SITE ADDRESS: 1641 PHALROSE LN
CANTONMENT, FL 32533
MAILING ADDRESS: 1657 CRYSTAL DR
CANTONMENT, FL 32533



PLAN &
PROFILE (5)
CEDAR TREE
EAST DRP

4885 WOODBINE ROAD
PACE, FLORIDA 32571
PHONE: (850) 289-1000
FAX: (850) 289-1001



PREPARED BY:

NO.	DESCRIPTION

DESIGNED BY:
KEA
2/24

DRAWN BY:
JCB
2/24

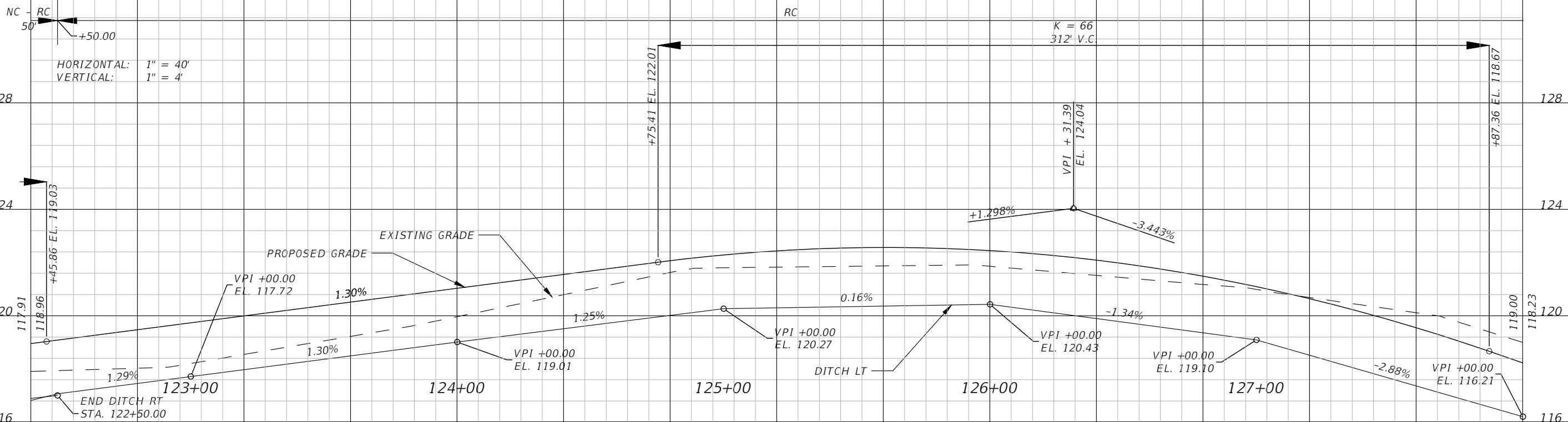
CHECKED BY:
KEA
2/24

APPROVED BY:

KARI E. ANDERSON, P.E.
LIC. No. 73720

PROJECT NO.
PD 02.03.79.52.15.ENG

SHEET NO.
12



MATCHLINE STA. - 128+00.00

MATCHLINE STA. - 133+60.00

PROPERTY OWNER: MORRIS WILLIAM G
SITE ADDRESS: 500 BLK CEDAR TREE LN
CANTONMENT, FL 32533
MAILING ADDRESS: 568 CEDAR TREE LN
CANTONMENT, FL 32533

PROPERTY OWNER: MORRIS WILLIAM G &
FRANCINE E
SITE ADDRESS: 568 CEDAR TREE LN
CANTONMENT, FL 32533
MAILING ADDRESS: 568 CEDAR TREE LN
CANTONMENT, FL 32533

PROPERTY OWNER: COOKS MARVIN
SITE ADDRESS: 500 BLK CEDAR TREE LN
CANTONMENT, FL 32533
MAILING ADDRESS: 1773 CEDAR POINT RD
CANTONMENT, FL 32533

PROPERTY OWNER: TUCKER IDA C & REGINALD
SITE ADDRESS: 556 CEDAR TREE LN
CANTONMENT, FL 32533
MAILING ADDRESS: 916 KATHLEEN AVE
CANTONMENT, FL 32533

PROPERTY OWNER: LOPEZ AYLAMONNE &
BODWELL LUKE DANIEL
SITE ADDRESS: 552 CEDAR TREE LN
CANTONMENT, FL 32533
MAILING ADDRESS: 552 CEDAR TREE LN
CANTONMENT, FL 32533

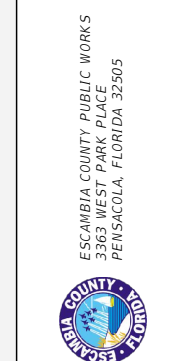
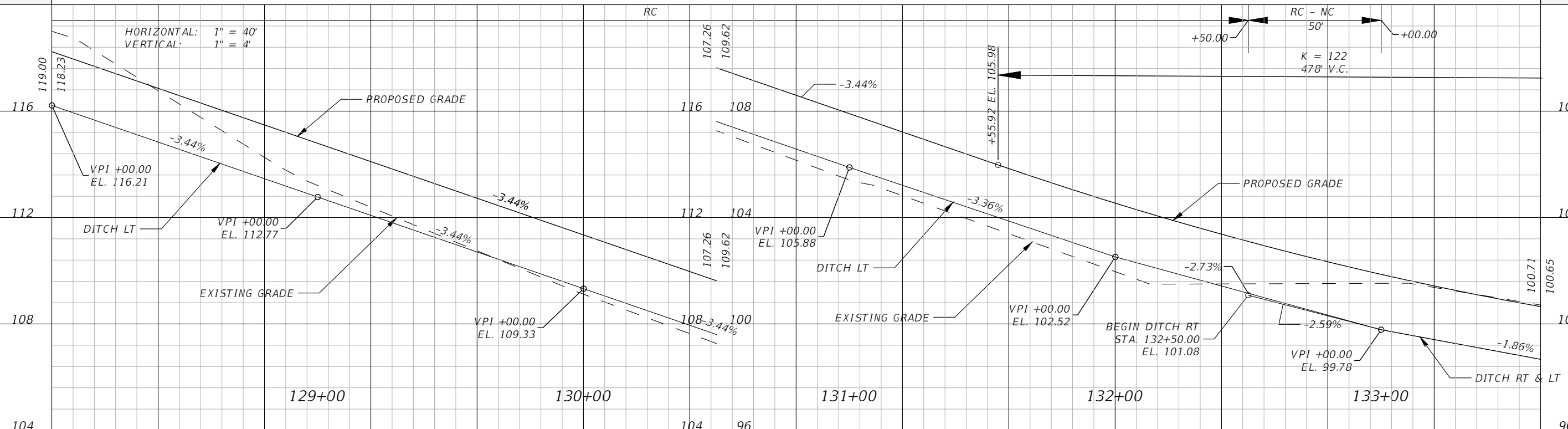
PROPERTY OWNER: LOPEZ JUDY CELIDA
SITE ADDRESS: 1640 PHALROSE LN
CANTONMENT, FL 32533
MAILING ADDRESS: 1640 PHALROSE LN
CANTONMENT, FL 32533

PROPERTY OWNER: BIRX JOSHUA D & ALICIA D
SITE ADDRESS: 555 CEDAR TREE LN
CANTONMENT, FL 32533
MAILING ADDRESS: 555 CEDAR TREE LN
CANTONMENT, FL 32533

LEGEND:

- AREA OF ASPHALT PAVEMENT
- CONCRETE DITCH PAVEMENT

HORIZONTAL: 1" = 40'
VERTICAL: 1" = 4'



PLAN & PROFILE (6)
CEDAR TREE
EAST DRP

4885 WOODBINE ROAD
PACE, FLORIDA 32571
PHONE: (850) 289-1000
FAX: (850) 289-1001



REVISIONS	
NO.	DESCRIPTION

DESIGNED BY:
KEA
2/24

DRAWN BY:
JCB
2/24

CHECKED BY:
KEA
2/24

APPROVED BY:

KARI E. ANDERSON, P.E.
LIC. No. 73720

PROJECT NO.
PD 02.03.79.52.15.ENG

SHEET NO.
13

PROPERTY OWNER: TUCKER TONY C JR & IDA C
 SITE ADDRESS: 1700 BLK CEDAR POINT RD
 CANTONMENT, FL 32533
 MAILING ADDRESS: 1767 CEDAR POINT RD
 CANTONMENT, FL 32533

PROPERTY OWNER: CHEVER ROSIE LEE EST OF
 SITE ADDRESS: 1700 BLK CEDAR POINT RD
 CANTONMENT, FL 32533
 MAILING ADDRESS: 1747 CEDAR POINT RD
 CANTONMENT, FL 32533

PROPERTY OWNER: MAIN JANICE LYNN
 SITE ADDRESS: 1745 CEDAR PARK DR
 CANTONMENT, FL 32533
 MAILING ADDRESS: 1745 CEDAR PARK DR
 CANTONMENT, FL 32533

PROPERTY OWNER: BIRX JOSHUA D & ALICIA D
 SITE ADDRESS: 555 CEDAR TREE LN
 CANTONMENT, FL 32533
 MAILING ADDRESS: 555 CEDAR TREE LN
 CANTONMENT, FL 32533

PROPERTY OWNER: COMANS GERALD A 1/2 INT & SMITH JANICE E FRADEJAS 1/2 INT
 SITE ADDRESS: 440 CEDAR TREE LN
 CANTONMENT, FL 32533
 MAILING ADDRESS: 440 CEDARTREE LN
 CANTONMENT, FL 32533

MATCHLINE STA. - 133+60.00

CEDAR POINT ROAD



ESCAMBIA COUNTY PUBLIC WORKS
 3363 WEST PARK PLACE
 PENSACOLA, FLORIDA 32505

PLAN & PROFILE (7)
 CEDAR TREE EAST DRP

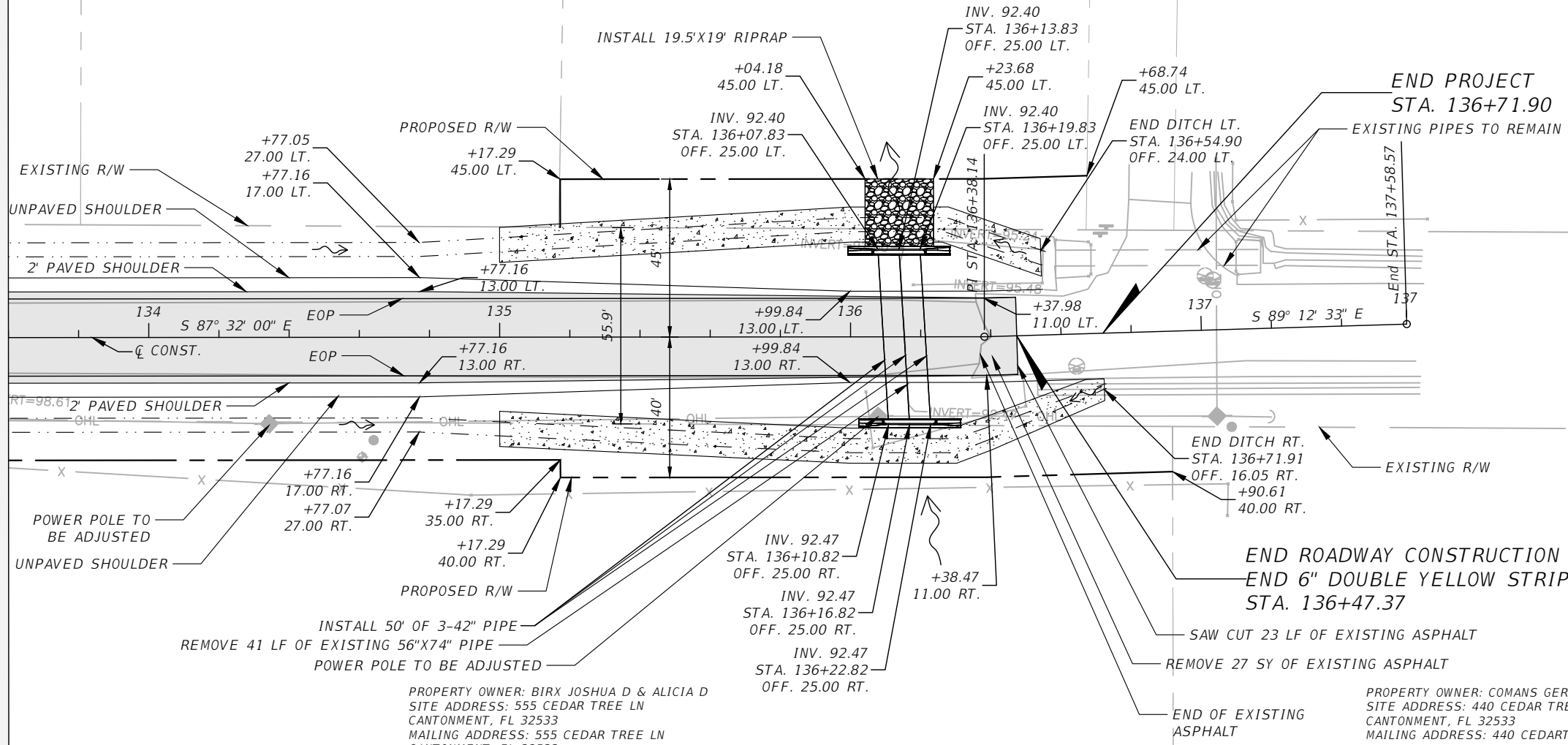
4889 WOODBINE ROAD
 PACE, FLORIDA 32571
 PHONE: (850) 289-1000
 FAX: (850) 289-1001



REVISIONS	
NO.	DESCRIPTION

DESIGNED BY: KEA 2/24
 DRAWN BY: JCB 2/24
 CHECKED BY: KEA 2/24
 APPROVED BY: KARI E. ANDERSON, P.E. LIC. No. 73720

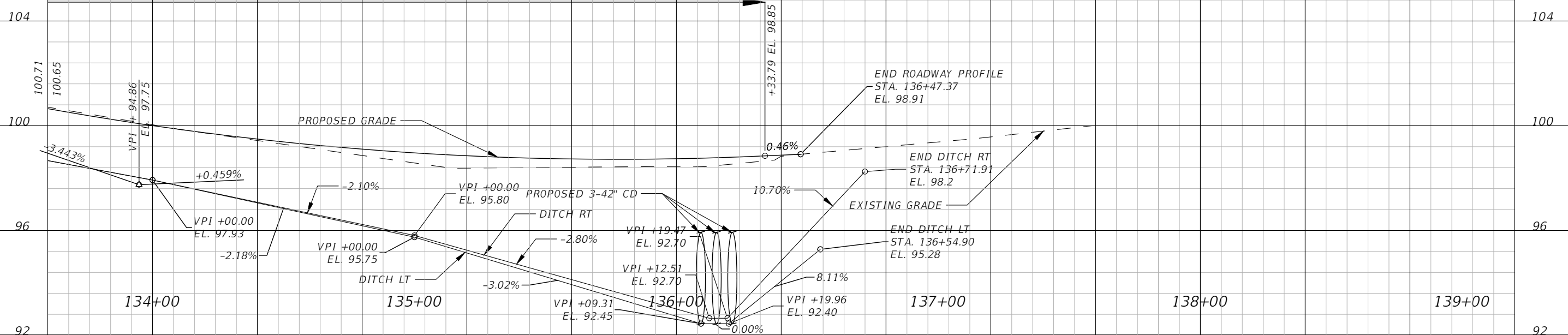
PROJECT NO. PD 02.03.79.52.15.ENG
 SHEET NO. 14



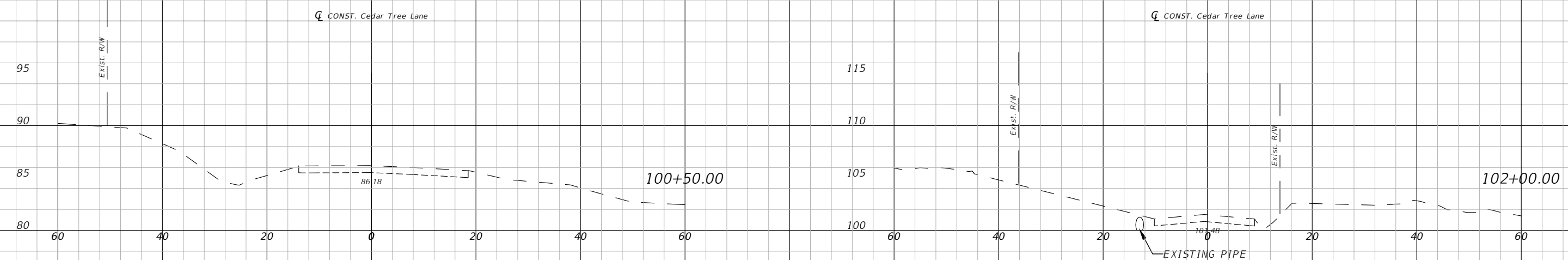
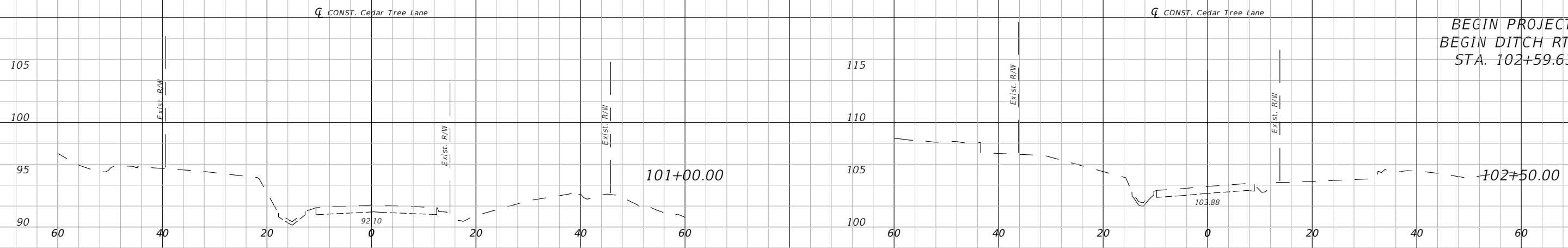
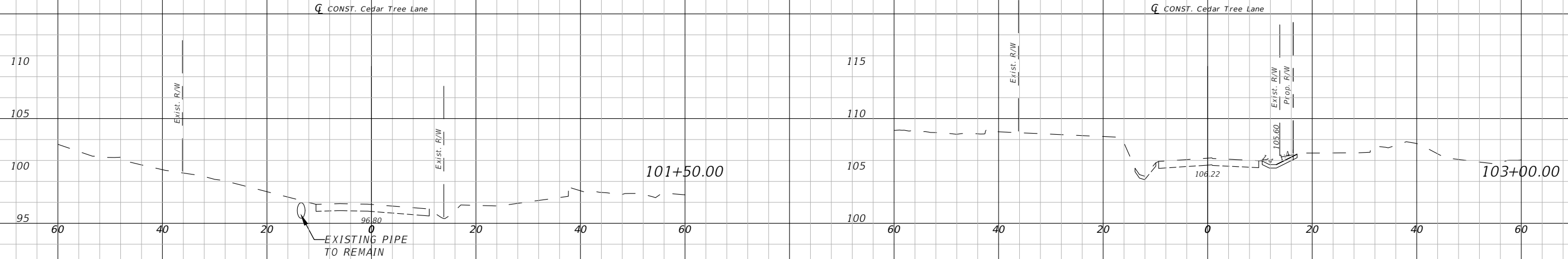
- LEGEND:
- AREA OF ASPHALT PAVEMENT
 - CONCRETE DITCH PAVEMENT
 - RIPRAP

HORIZONTAL: 1" = 40'
 VERTICAL: 1" = 4'

K = 122
 478' V.C.



HORIZONTAL: 1" = 20'
 VERTICAL: 1" = 10'



BEGIN PROJECT
 BEGIN DITCH RT.
 STA. 102+59.63

ESCAMBIA COUNTY PUBLIC WORKS
 3363 WEST PARK PLACE
 PENSACOLA, FLORIDA 32505

CROSS SECTIONS (1)
 CEDAR TREE EAST DRP

4889 WOODBINE ROAD
 PACE, FLORIDA 32571
 PHONE: (850) 289-1000
 FAX: (850) 289-1001



REVISIONS	
NO.	DESCRIPTION

DESIGNED BY:
 KEA
 2/24
 DRAWN BY:
 JCB
 2/24
 CHECKED BY:
 KEA
 2/24

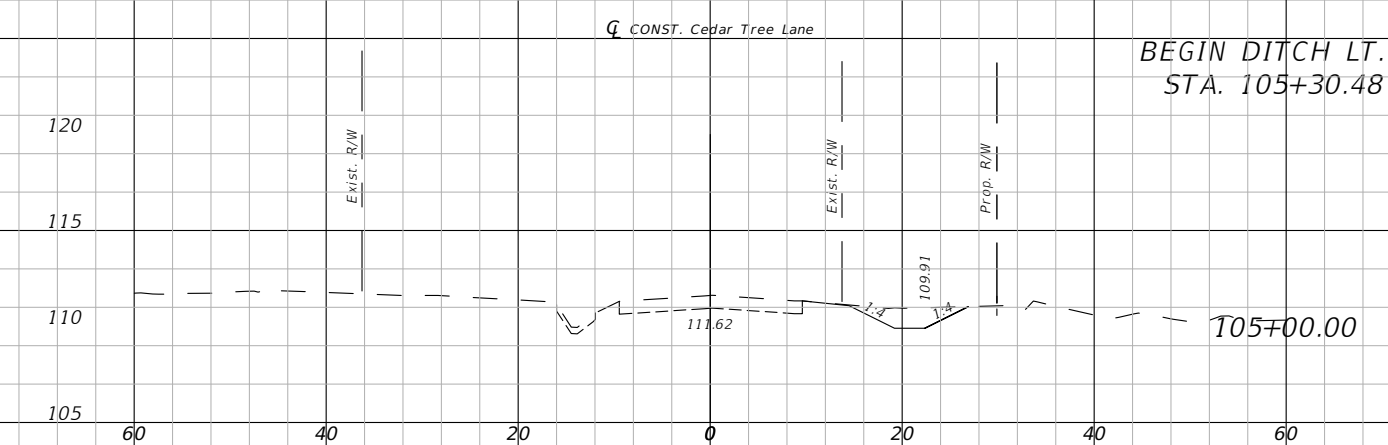
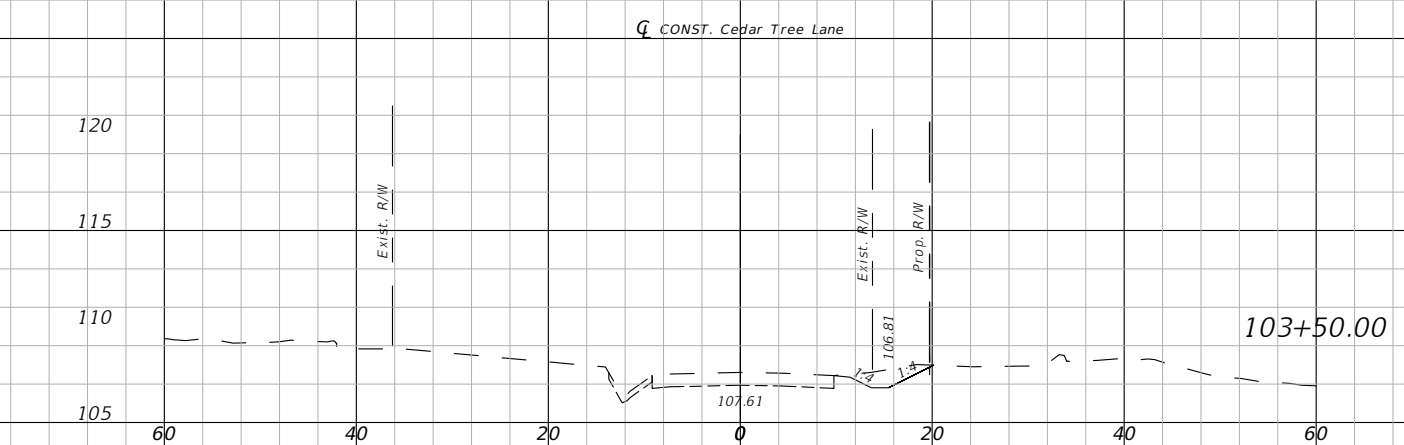
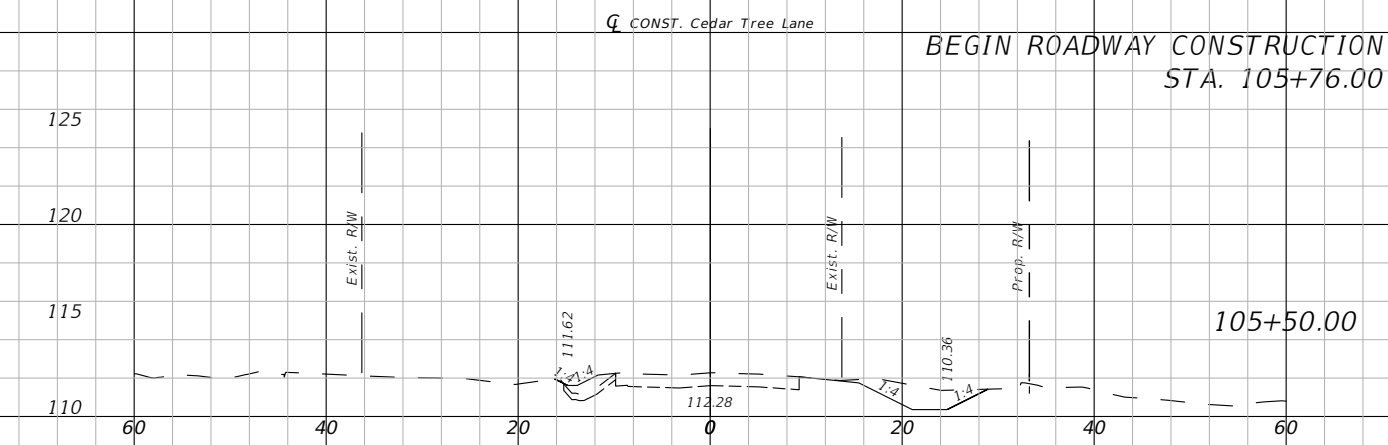
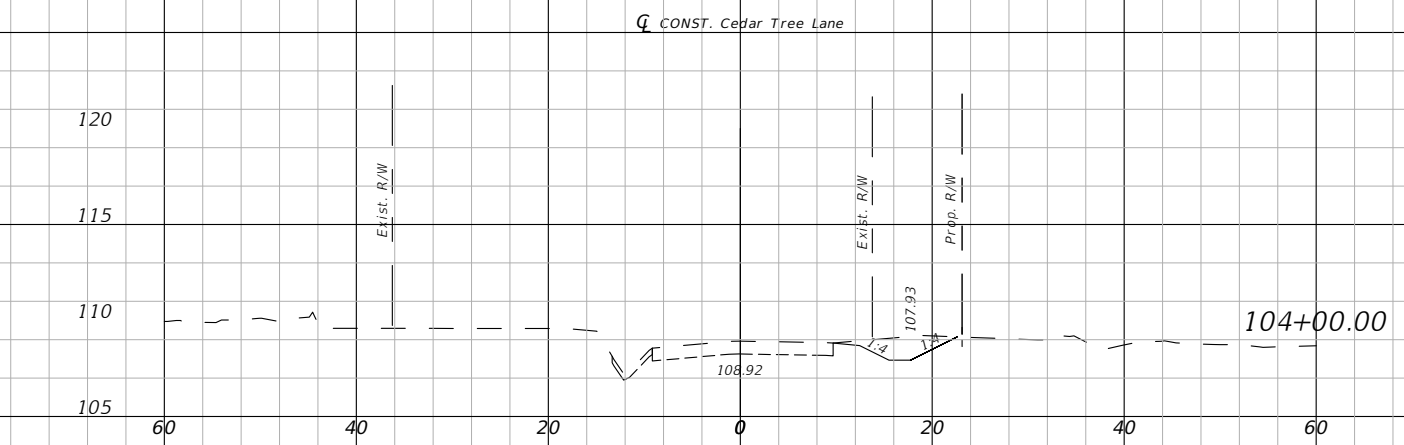
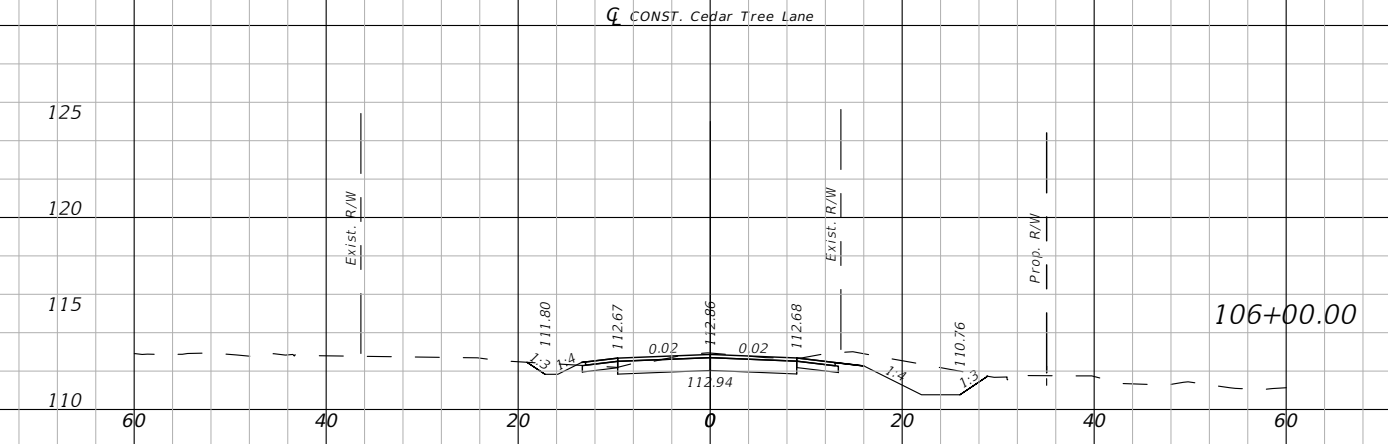
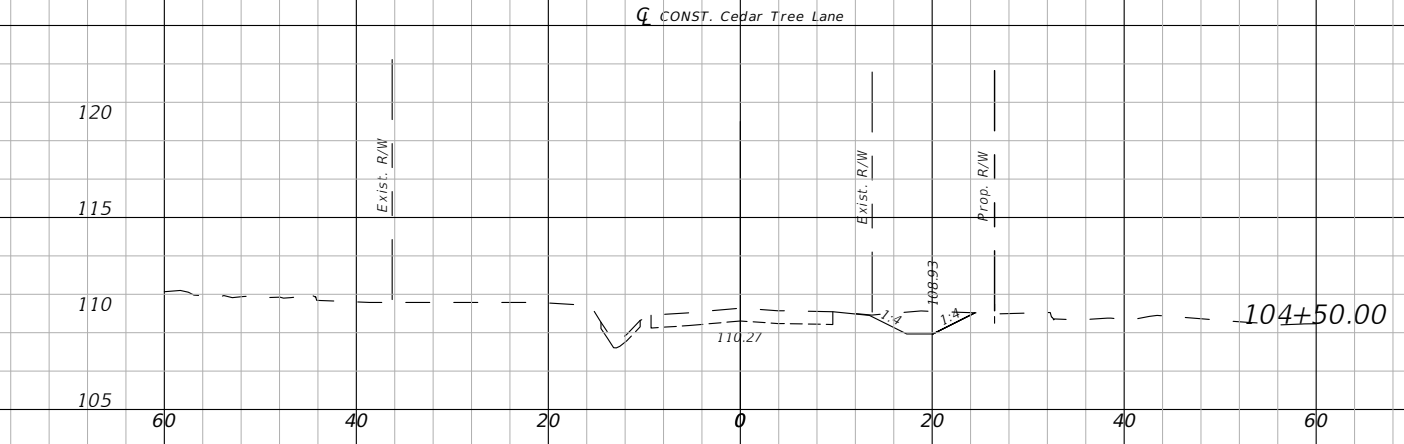
APPROVED BY:

KARI E. ANDERSON, P.E.
 LIC. No. 73720

PROJECT NO.
 PD 02.03.79.52.15.ENG

SHEET NO.
 15

HORIZONTAL: 1" = 20'
 VERTICAL: 1" = 10'



ESCAMBIA COUNTY PUBLIC WORKS
 3363 WEST PARK PLACE
 PENSACOLA, FLORIDA 32505

CROSS SECTIONS (2)
 CEDAR TREE EAST DRP

4885 WOODBINE ROAD
 PACE, FLORIDA 32571
 PHONE: (850) 289-1000
 FAX: (850) 289-1001

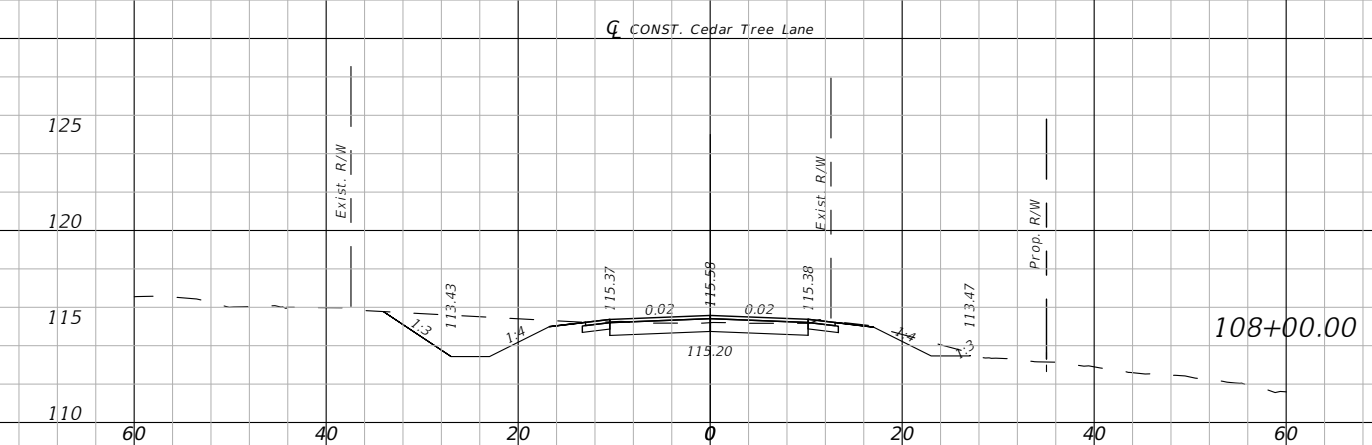
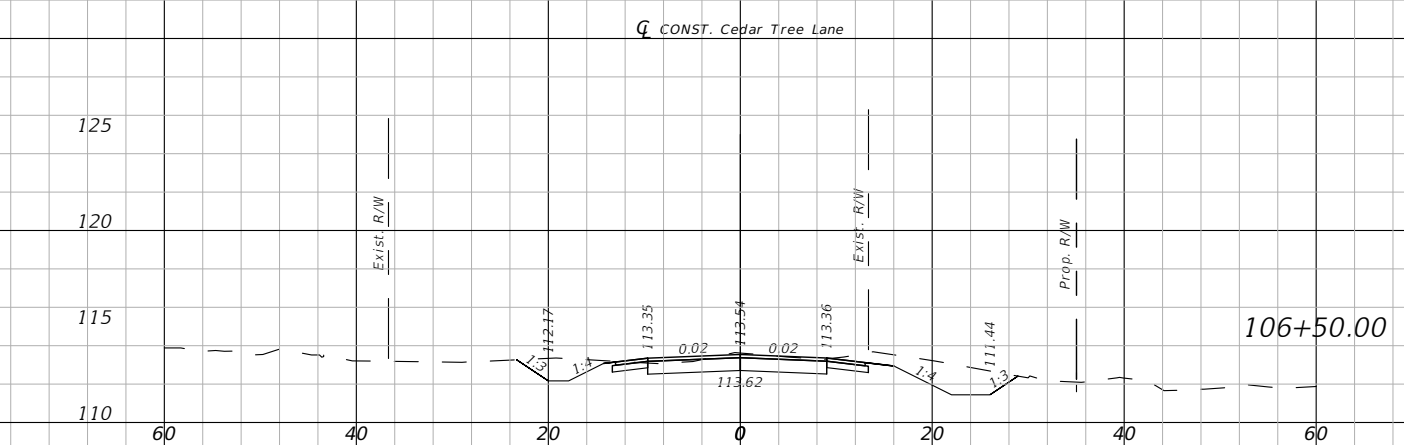
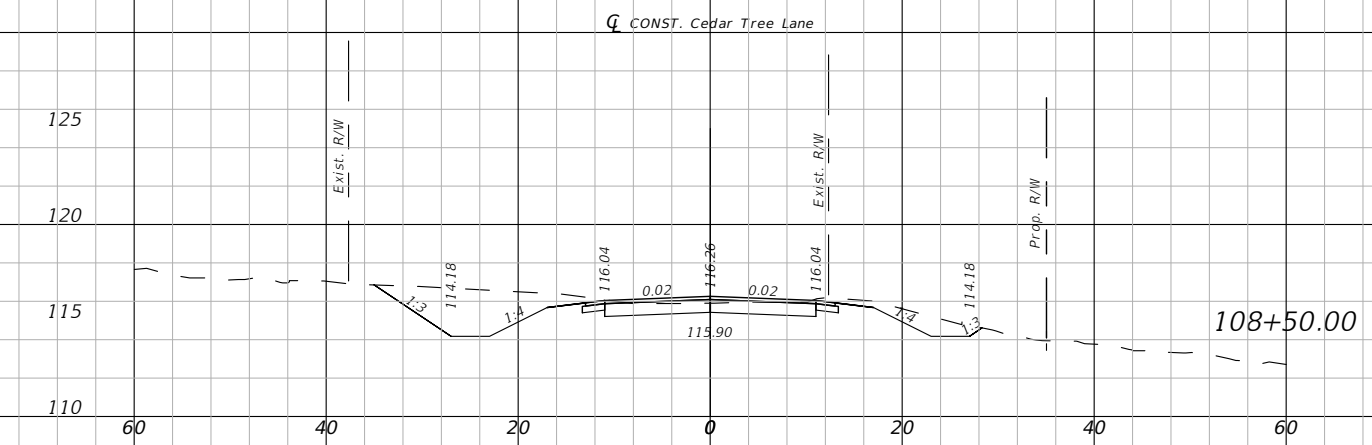
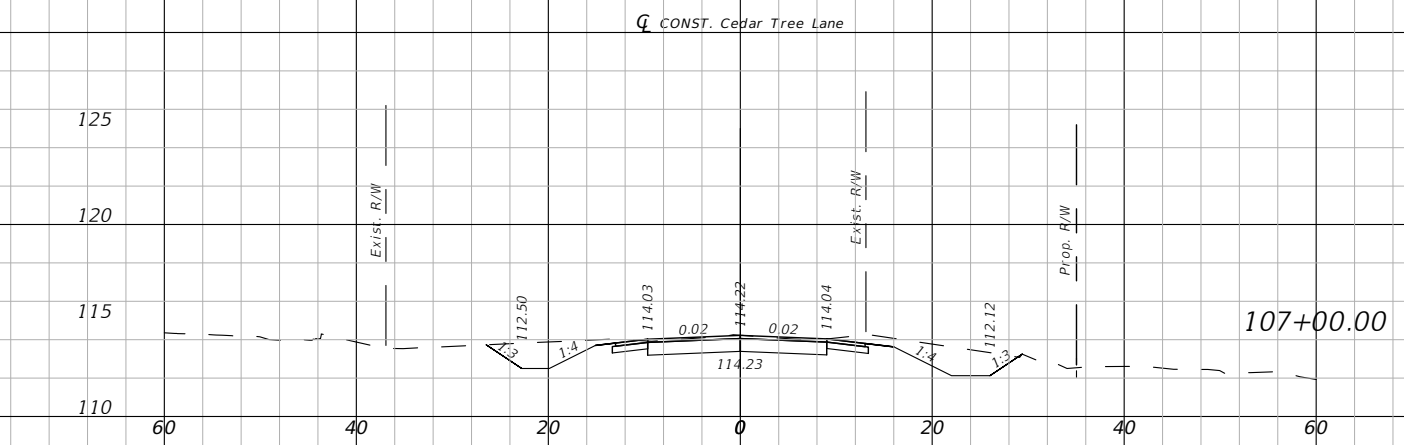
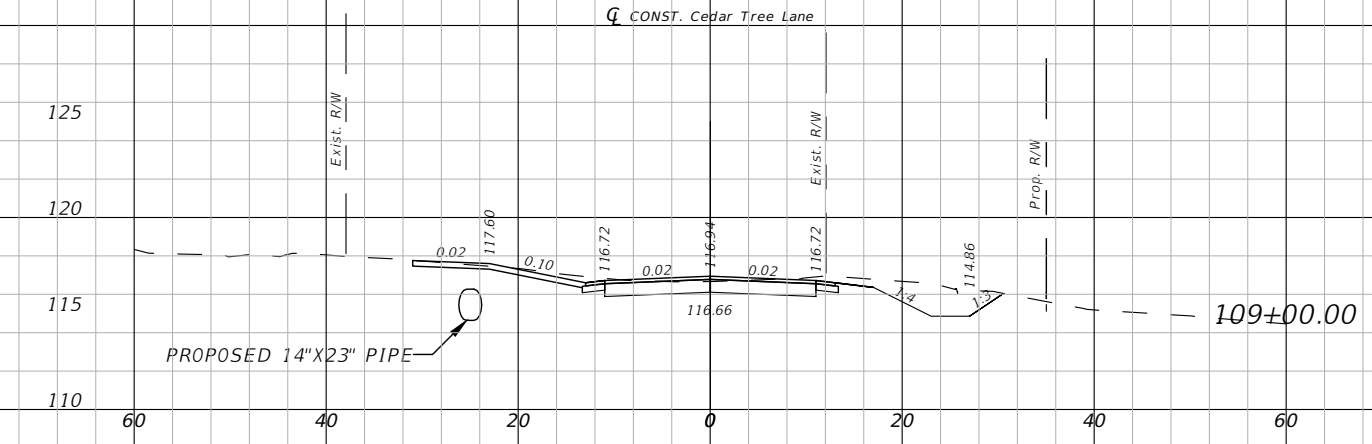
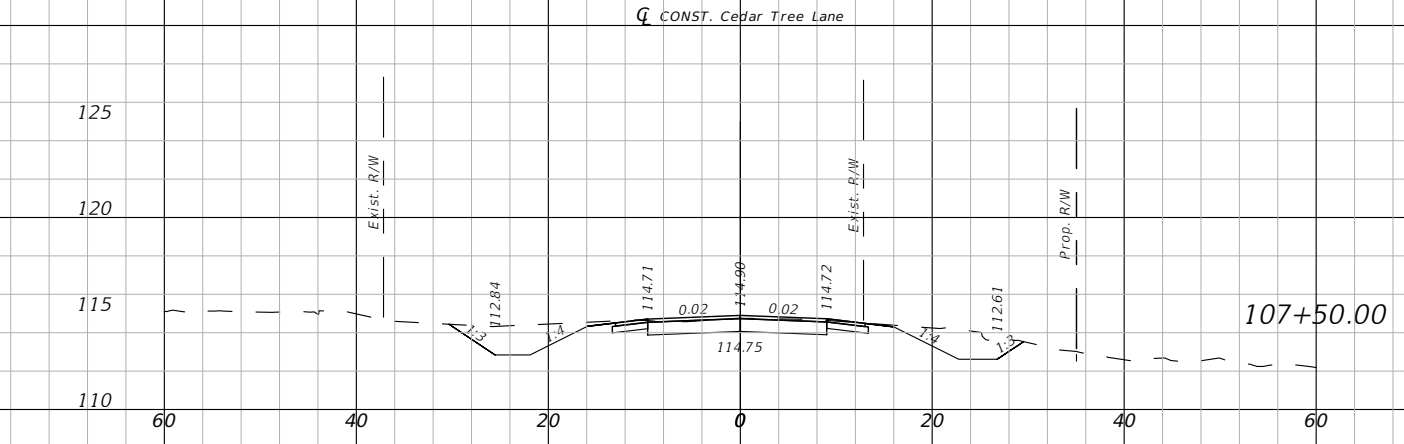


NO.	REVISIONS DESCRIPTION

DESIGNED BY: KEA 2/24
 DRAWN BY: JCB 2/24
 CHECKED BY: KEA 2/24
 APPROVED BY:

KARI E. ANDERSON, P.E.
 LIC. No. 73720
 PROJECT NO. PD 02.03.79.52.15.ENG
 SHEET NO. 16

HORIZONTAL: 1" = 20'
 VERTICAL: 1" = 10'



ESCAMBIA COUNTY PUBLIC WORKS
 3363 WEST PARK PLACE
 PENSACOLA, FLORIDA 32505

CROSS SECTIONS (3)
 CEDAR TREE EAST DRP

4885 WOODBINE ROAD
 PACE, FLORIDA 32571
 PHONE: (850) 289-1000
 FAX: (850) 289-1001

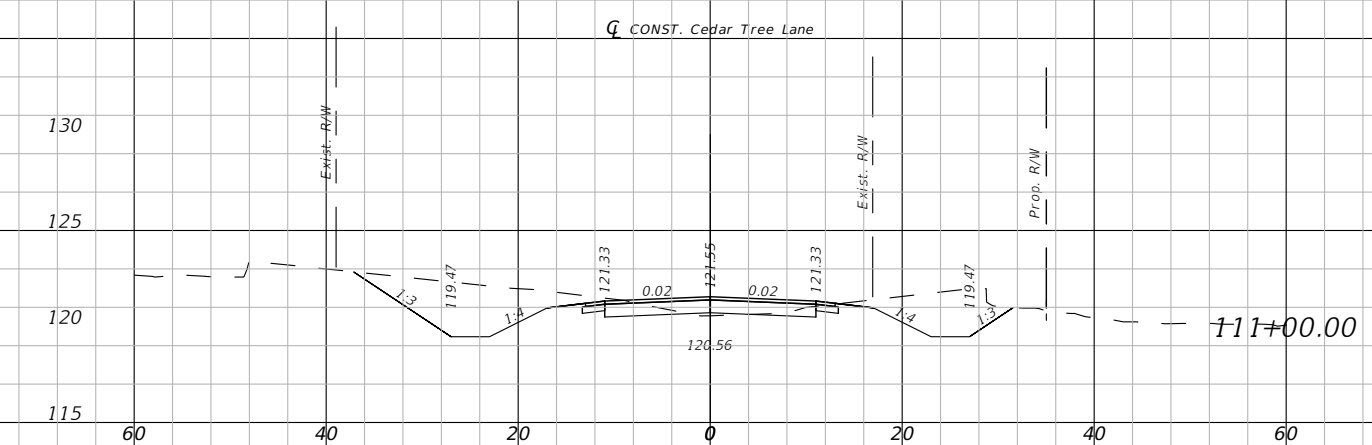
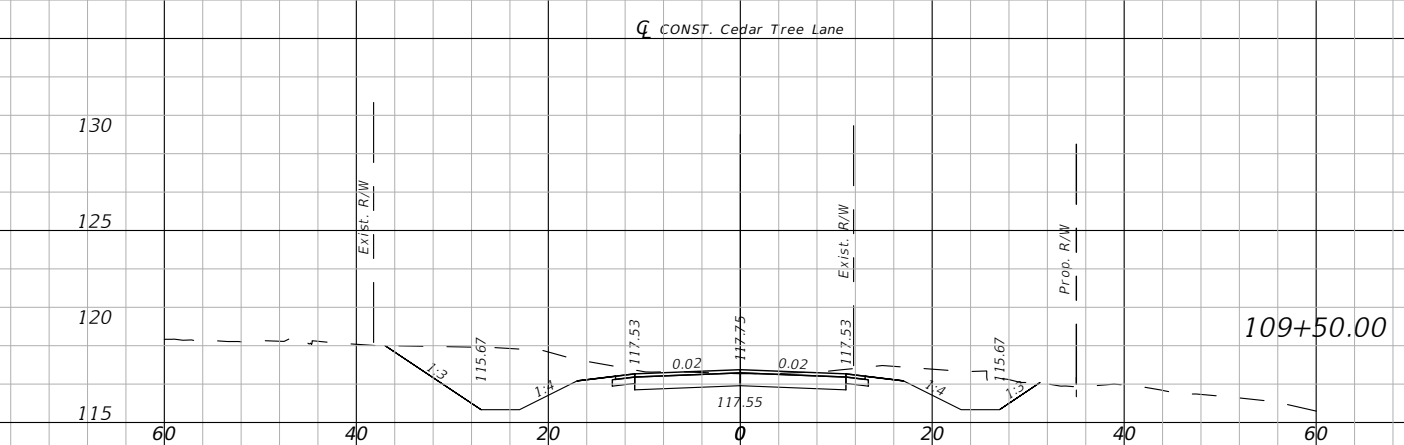
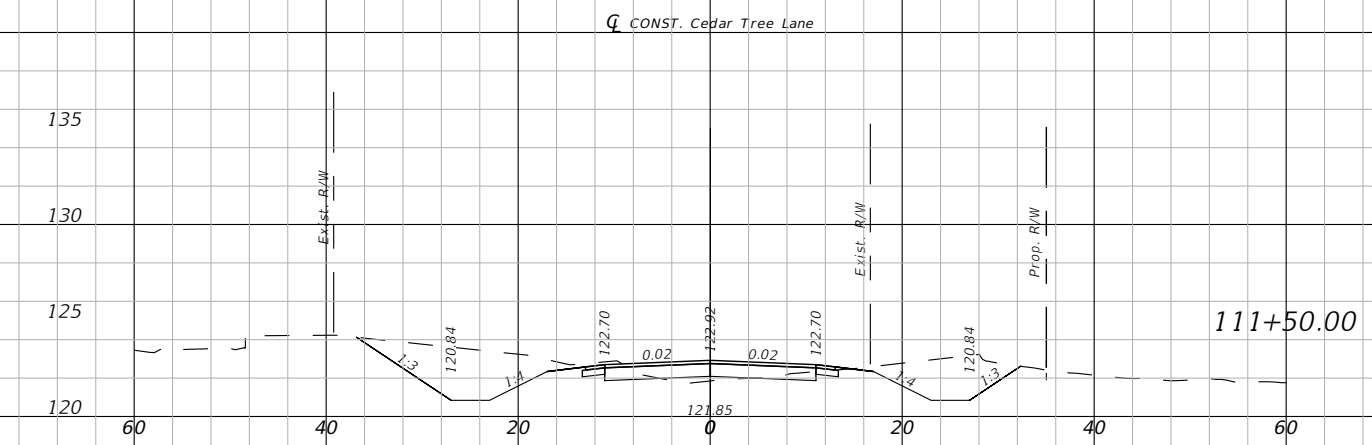
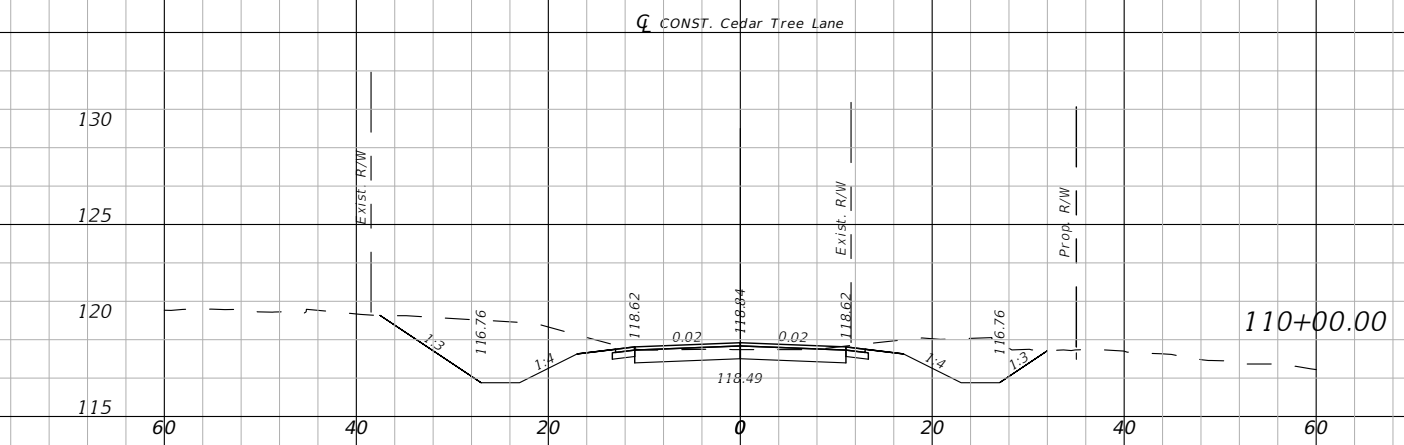
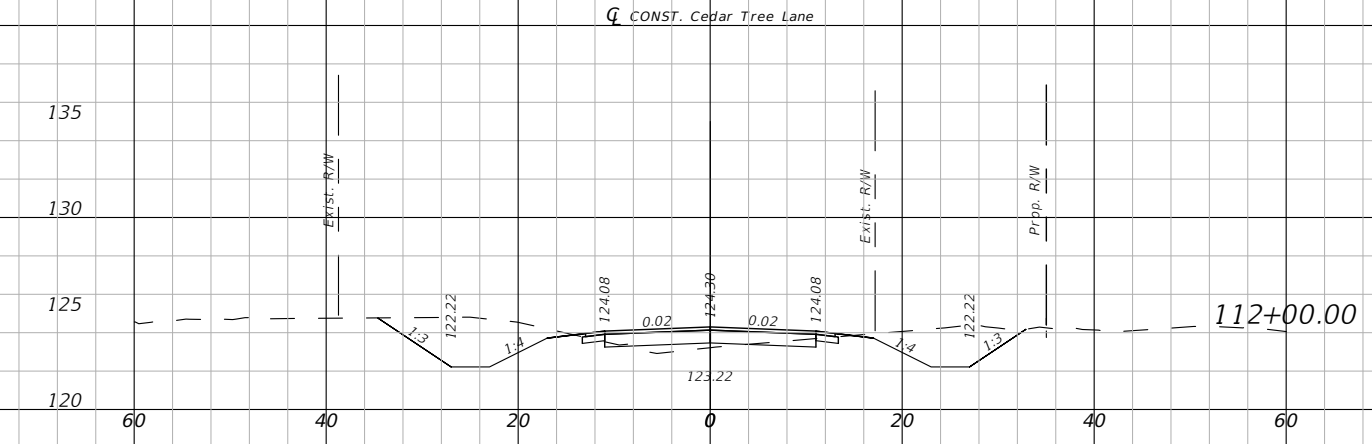
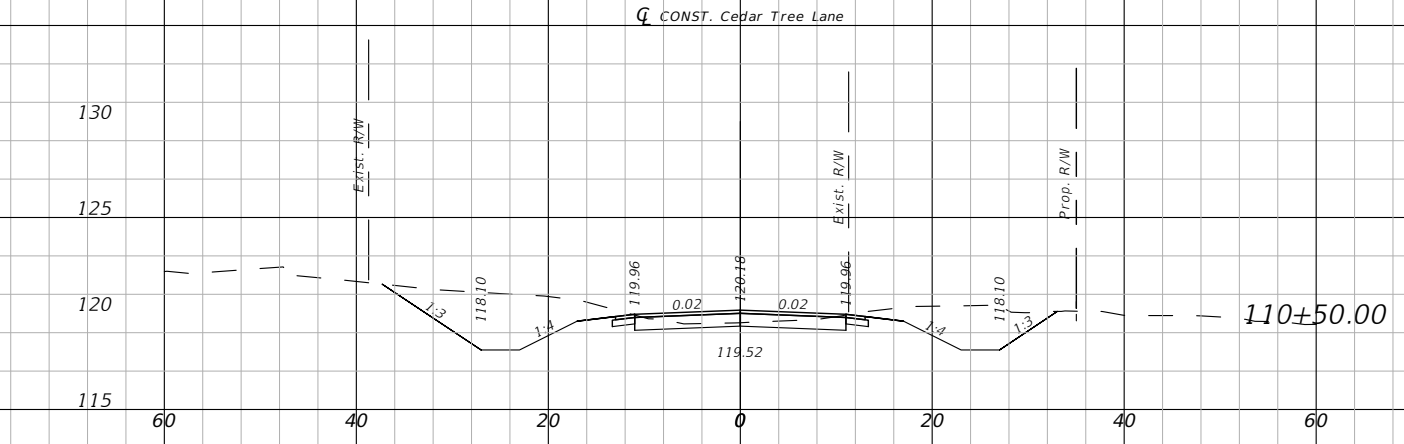


NO.	REVISIONS DESCRIPTION

DESIGNED BY: KEA 2/24
 DRAWN BY: JCB 2/24
 CHECKED BY: KEA 2/24
 APPROVED BY:

KARI E. ANDERSON, P.E.
 LIC. No. 73720
 PROJECT NO. PD 02.03.79.52.15.ENG
 SHEET NO. 17

HORIZONTAL: 1" = 20'
 VERTICAL: 1" = 10'



ESCAMBIA COUNTY PUBLIC WORKS
 3363 WEST PARK PLACE
 PENSACOLA, FLORIDA 32505

CROSS SECTIONS (4)
 CEDAR TREE EAST DRP

4885 WOODBINE ROAD
 PACE, FLORIDA 32571
 PHONE: (850) 289-1000
 FAX: (850) 289-1001



REVISIONS	
NO.	DESCRIPTION

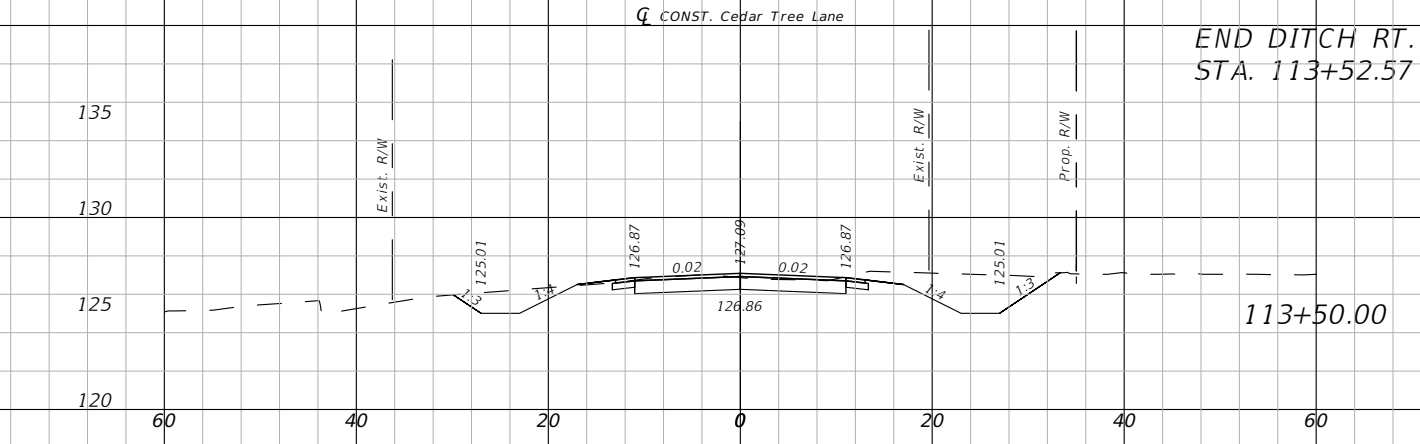
DESIGNED BY:
 KEA
 2/24
 DRAWN BY:
 JCB
 2/24
 CHECKED BY:
 KEA
 2/24
 APPROVED BY:

KARI E. ANDERSON, P.E.
 LIC. No. 73720

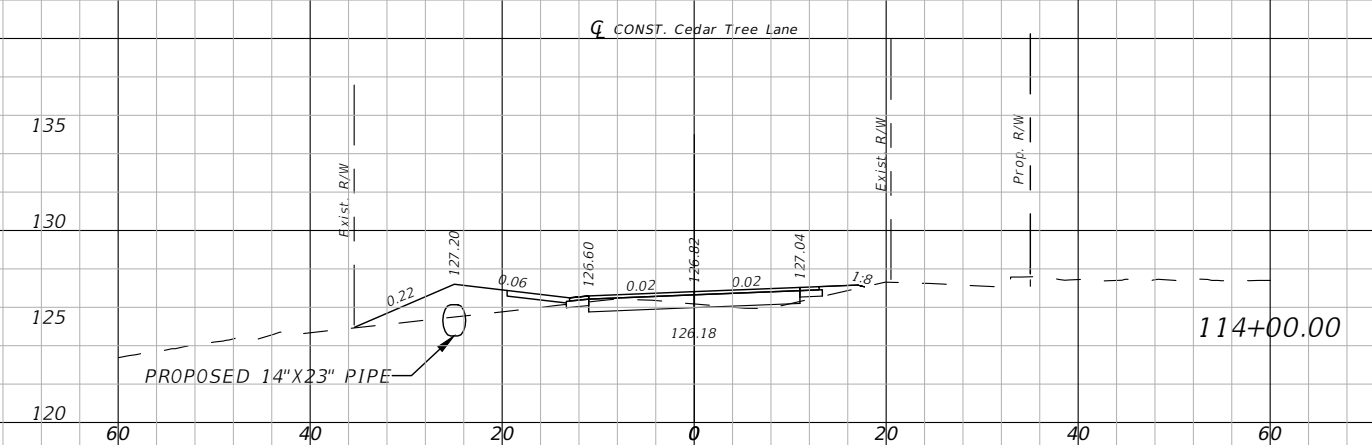
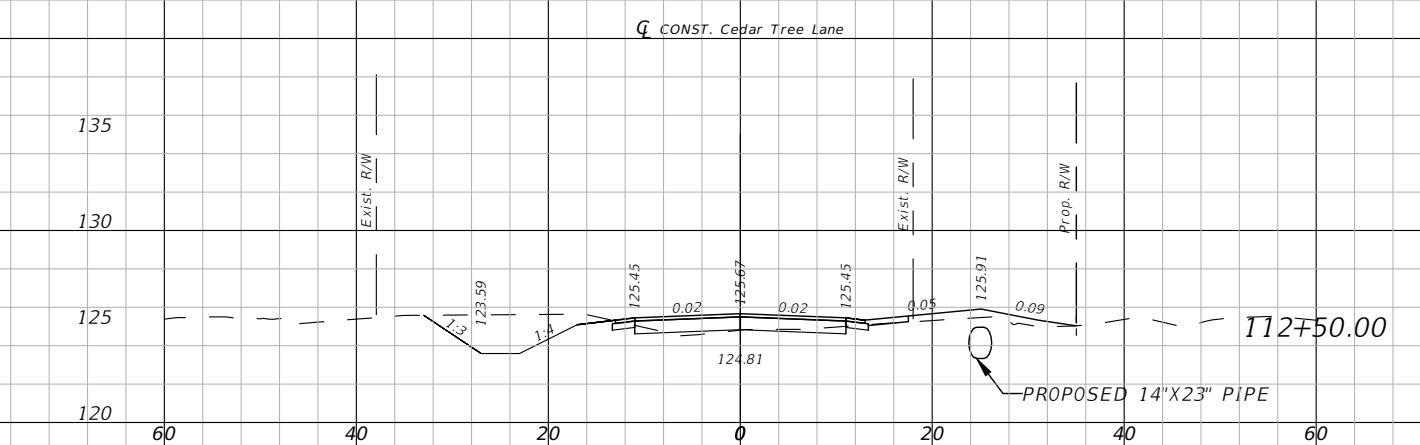
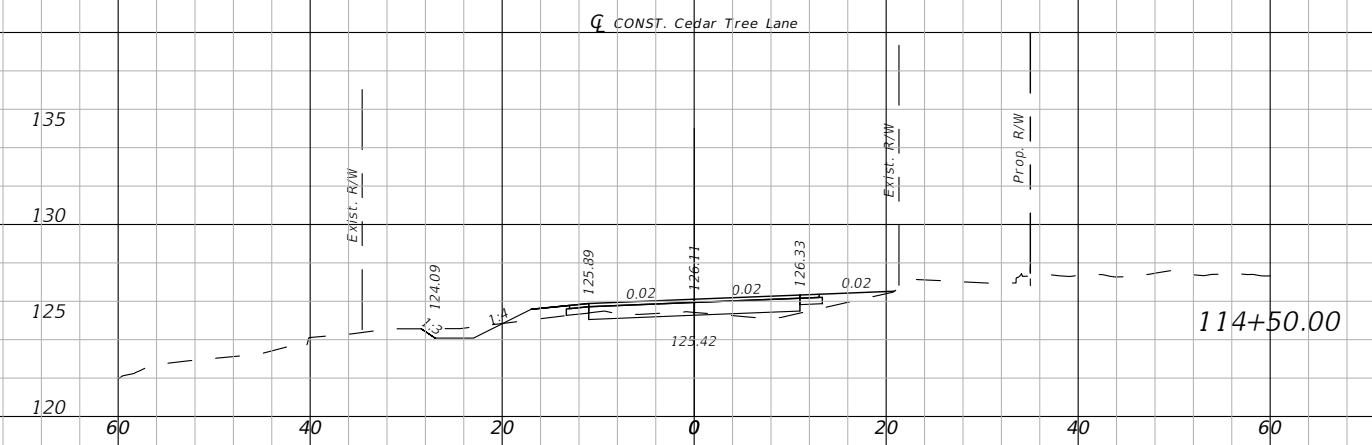
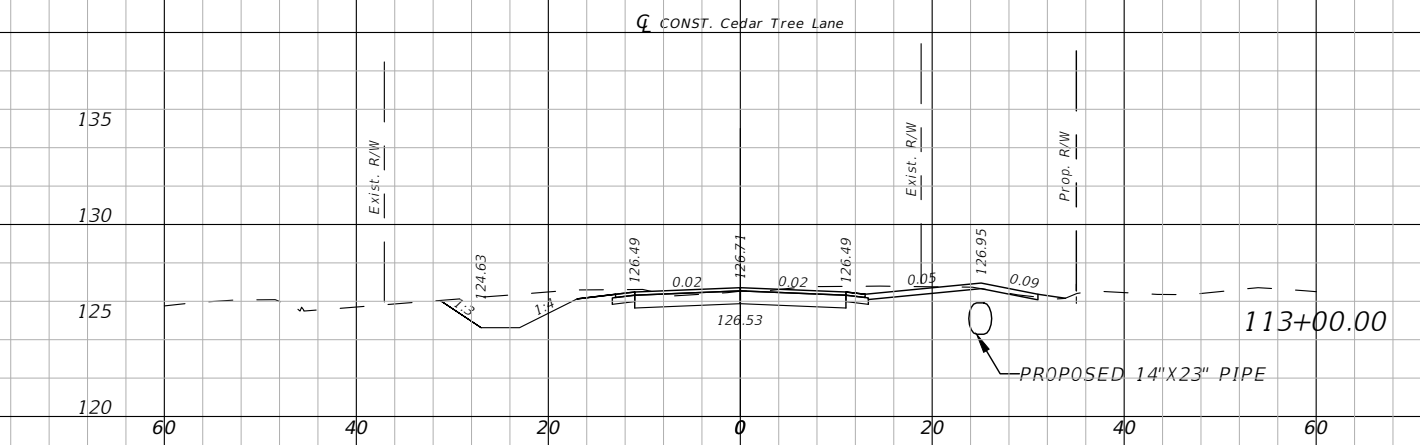
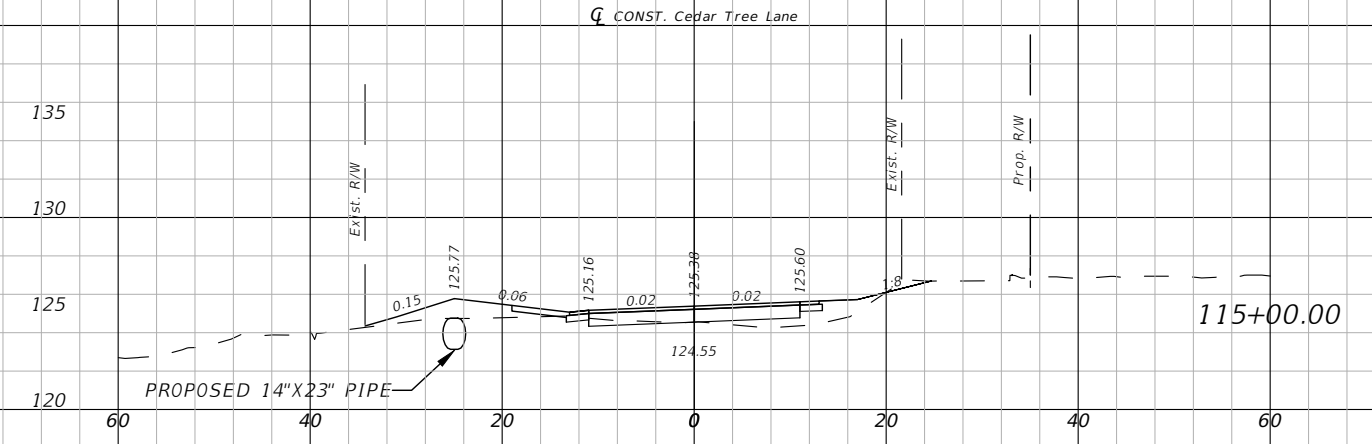
PROJECT NO.
 PD 02.03.79.52.15.ENG

SHEET NO.
 18

HORIZONTAL: 1" = 20'
 VERTICAL: 1" = 10'



END DITCH RT.
 STA. 113+52.57



CROSS SECTIONS (5)
 CEDAR TREE EAST DRP

4885 WOODBINE ROAD
 PACE, FLORIDA 32571
 PHONE: (850) 289-1000
 FAX: (850) 289-1001



REVISIONS	
NO.	DESCRIPTION

DESIGNED BY:
 KEA
 2/24

DRAWN BY:
 JCB
 2/24

CHECKED BY:
 KEA
 2/24

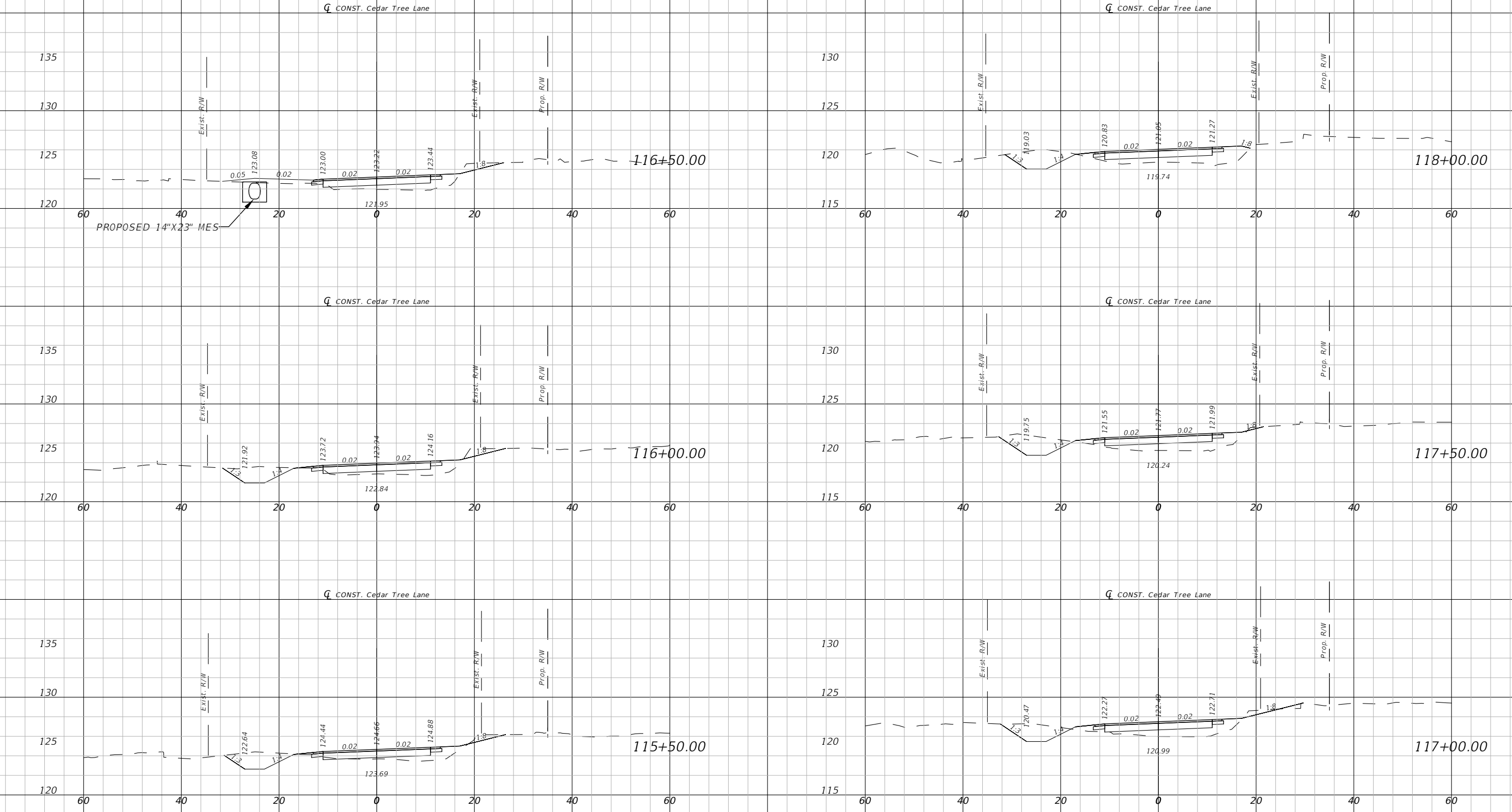
APPROVED BY:

KARI E. ANDERSON, P.E.
 LIC. No. 73720

PROJECT NO.
 PD 02.03.79.52.15.ENG

SHEET NO.
 19

HORIZONTAL: 1" = 20'
 VERTICAL: 1" = 10'



ESCAMBIA COUNTY PUBLIC WORKS
 3363 WEST PARK PLACE
 PENSACOLA, FLORIDA 32505

CROSS SECTIONS (6)
 CEDAR TREE EAST DRP

4888 WOODBINE ROAD
 PACE, FLORIDA 32571
 PHONE: (850) 289-1000
 FAX: (850) 289-1001

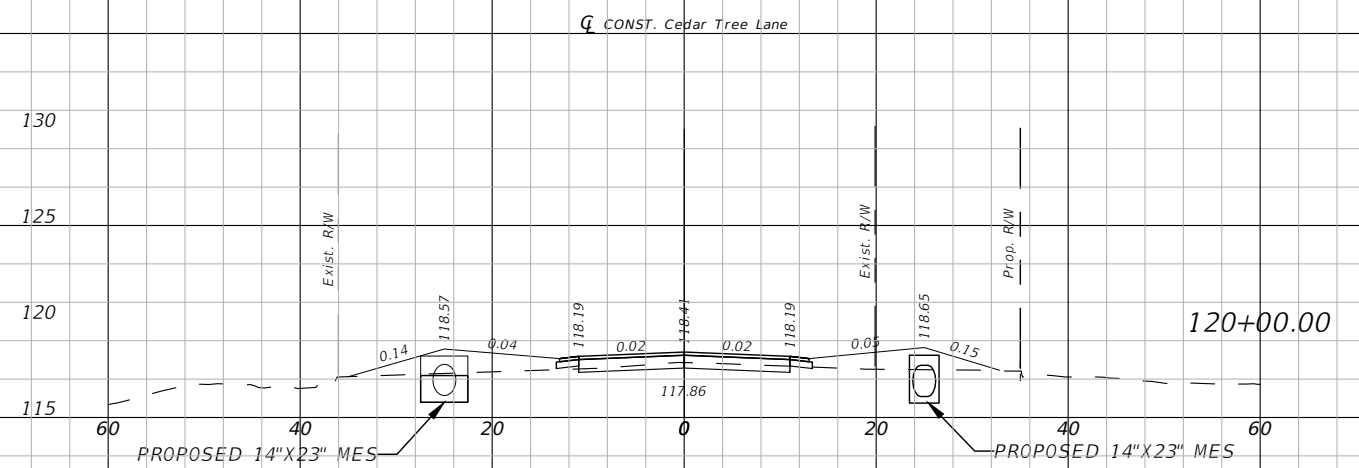
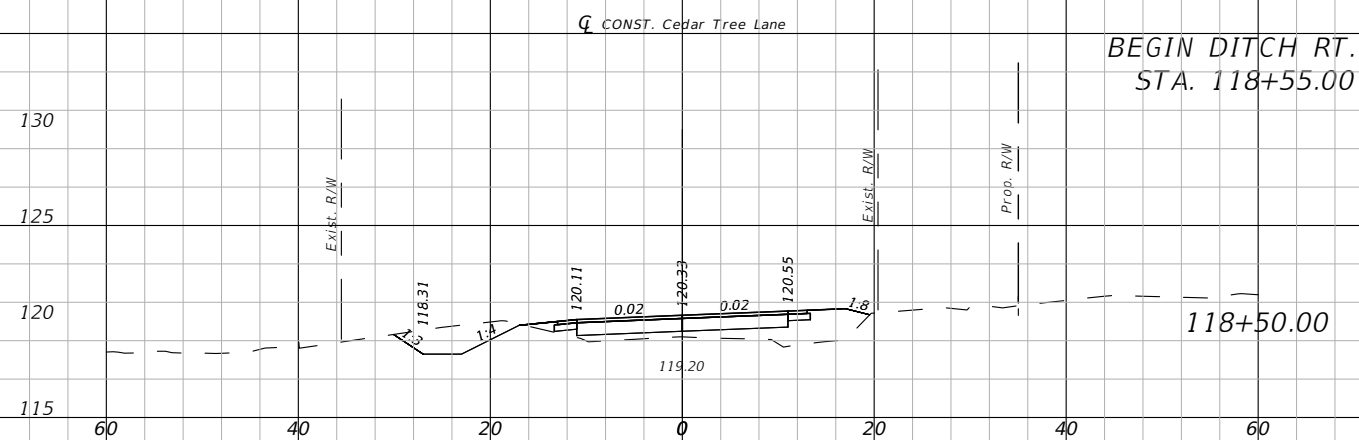
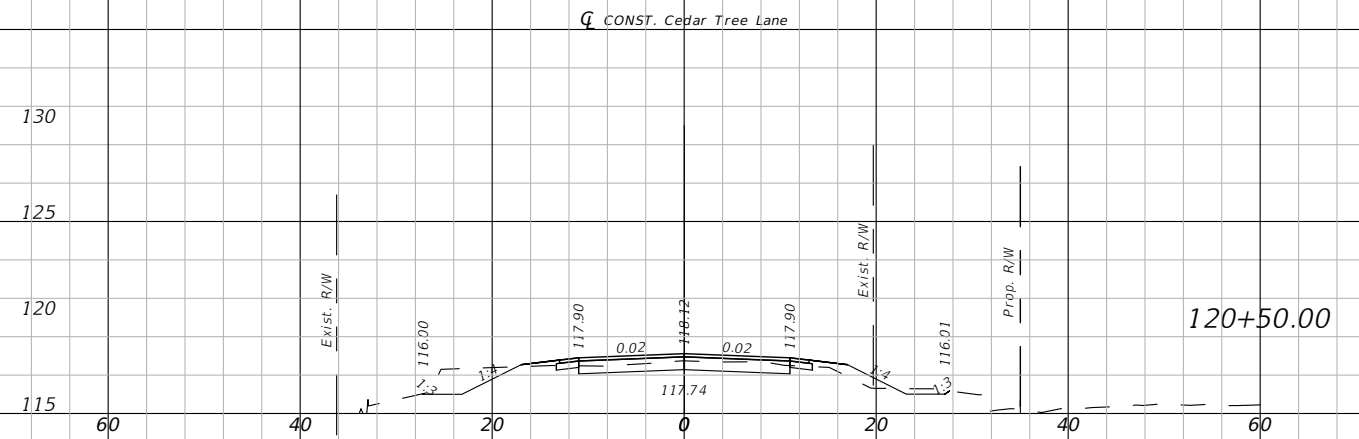
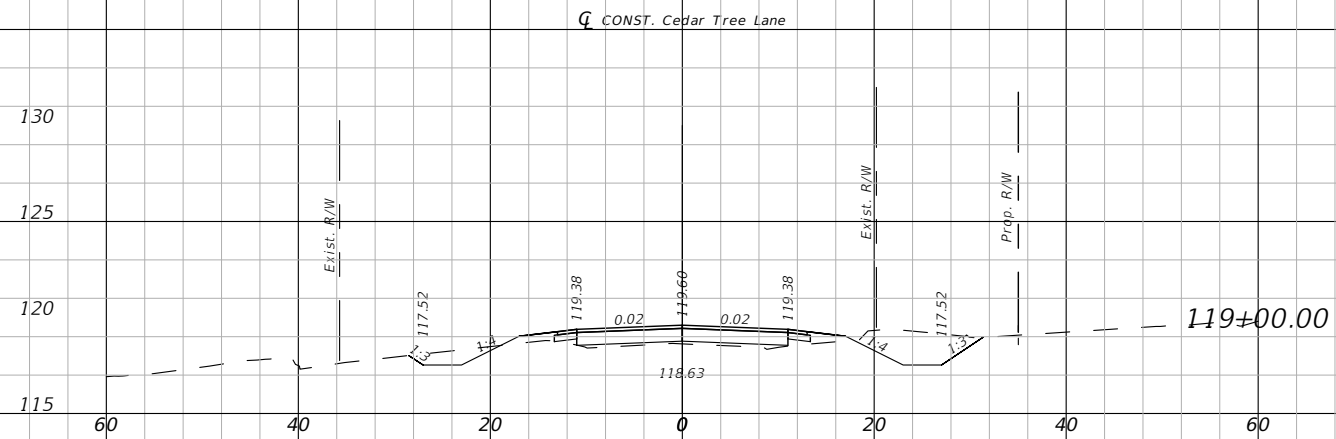
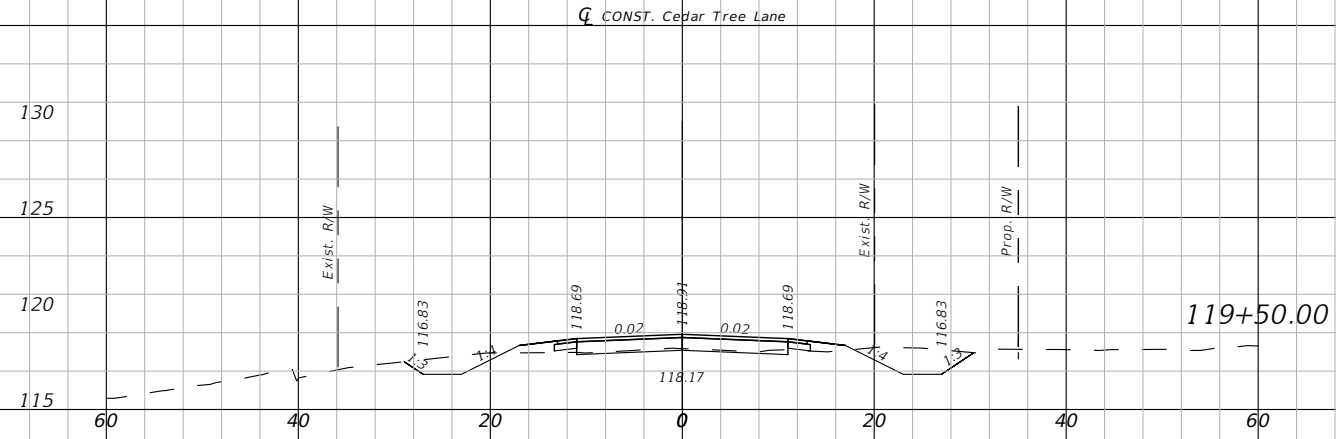


REVISIONS	
NO.	DESCRIPTION

DESIGNED BY:
 KEA
 2/24
 DRAWN BY:
 JCB
 2/24
 CHECKED BY:
 KEA
 2/24
 APPROVED BY:

KARI E. ANDERSON, P.E.
 LIC. No. 73720
 PROJECT NO.
 PD 02.03.79.52.15.ENG
 SHEET NO.
 20

HORIZONTAL: 1" = 20'
 VERTICAL: 1" = 10'



CROSS SECTIONS (7)
 CEDAR TREE EAST DRP

4888 WOODBINE ROAD
 PACE, FLORIDA 32571
 PHONE: (850) 289-1000
 FAX: (850) 289-1001



REVISIONS	
NO.	DESCRIPTION

DESIGNED BY:
 KEA
 2/24

DRAWN BY:
 JCB
 2/24

CHECKED BY:
 KEA
 2/24

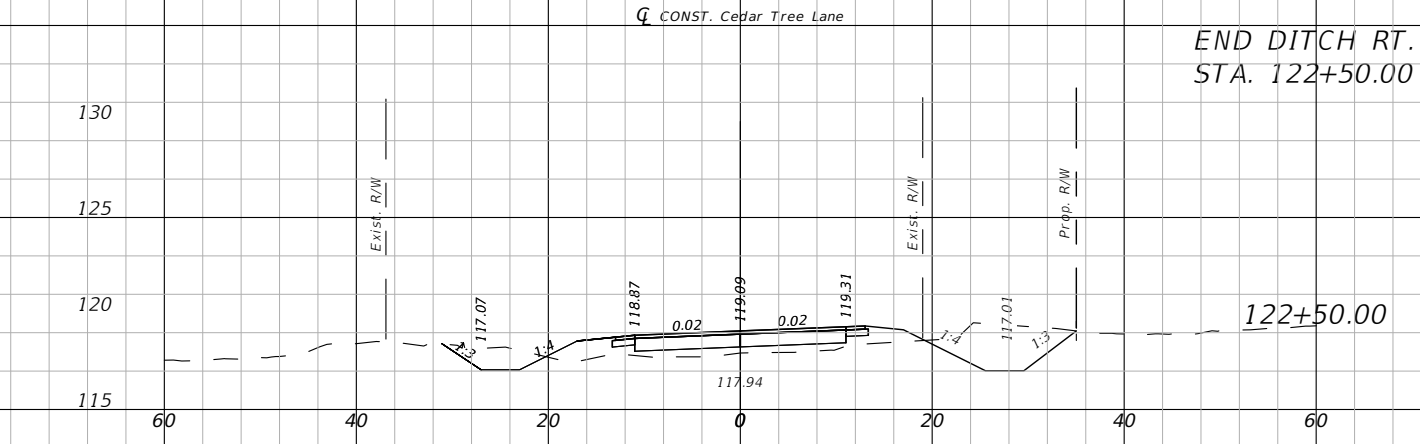
APPROVED BY:

KARI E. ANDERSON, P.E.
 LIC. No. 73720

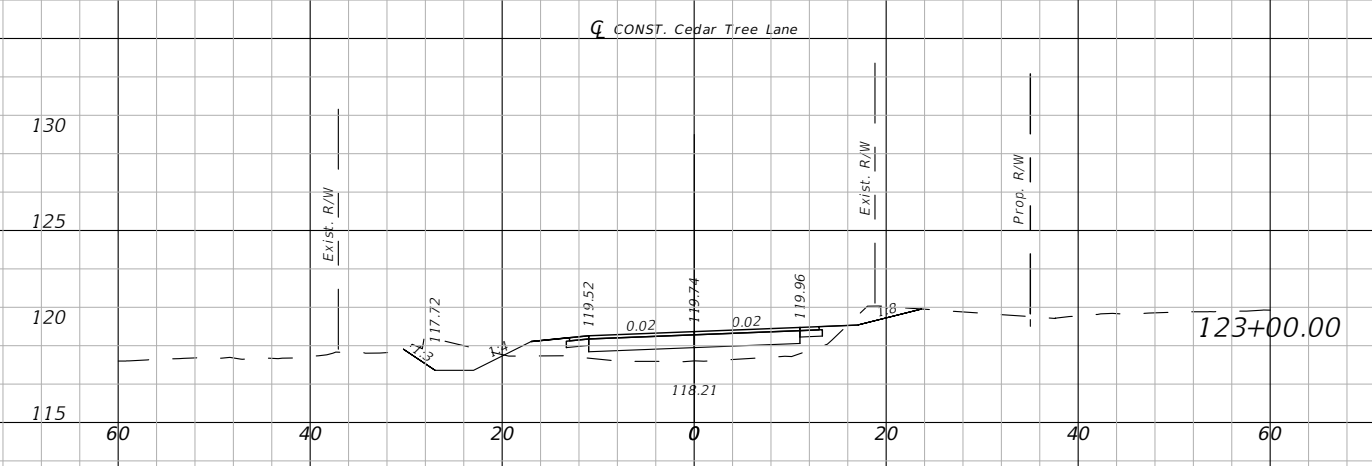
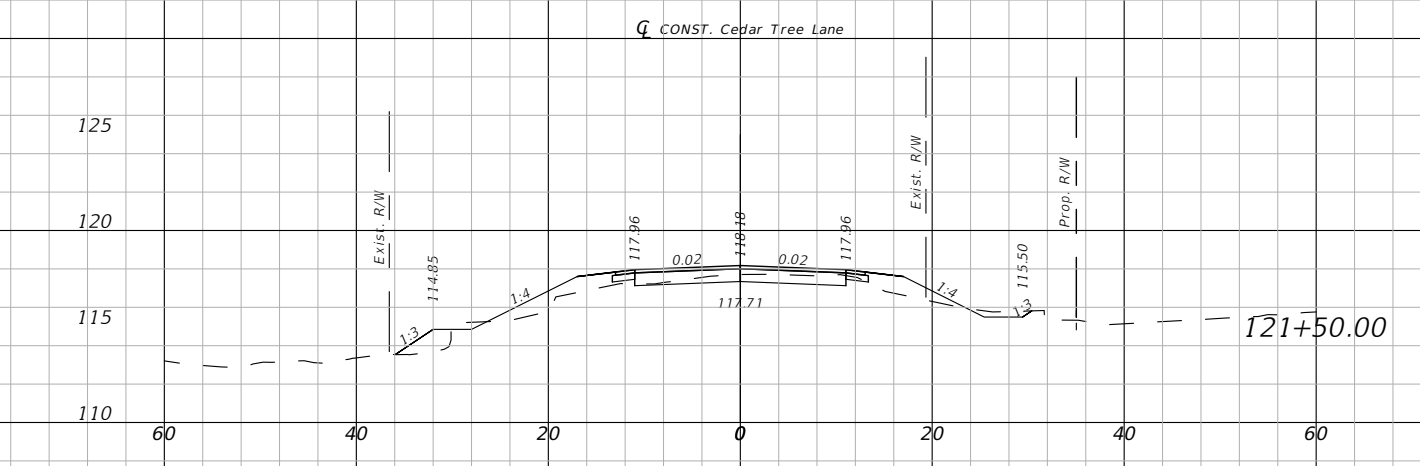
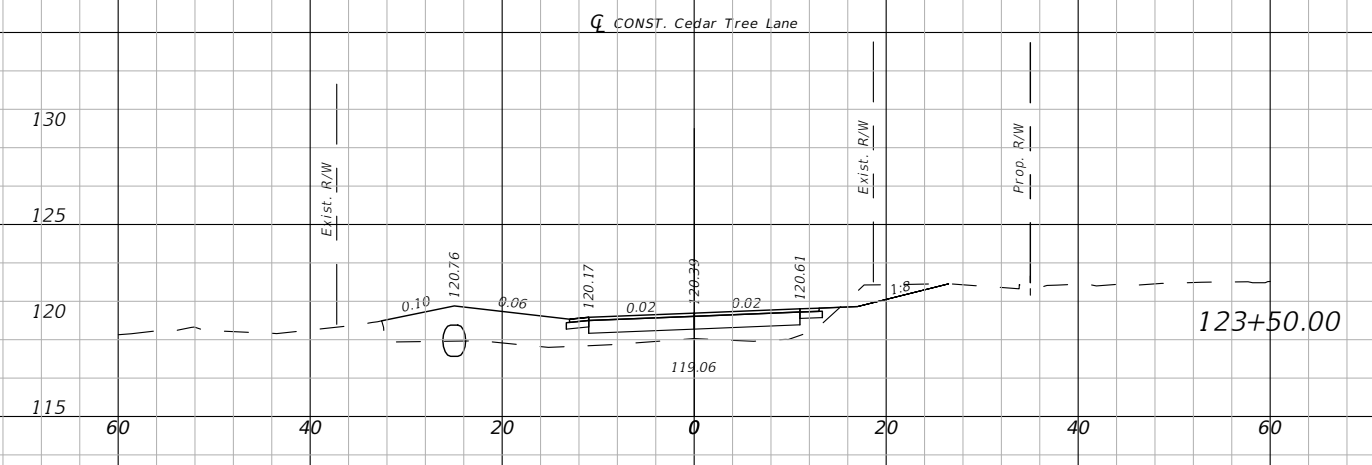
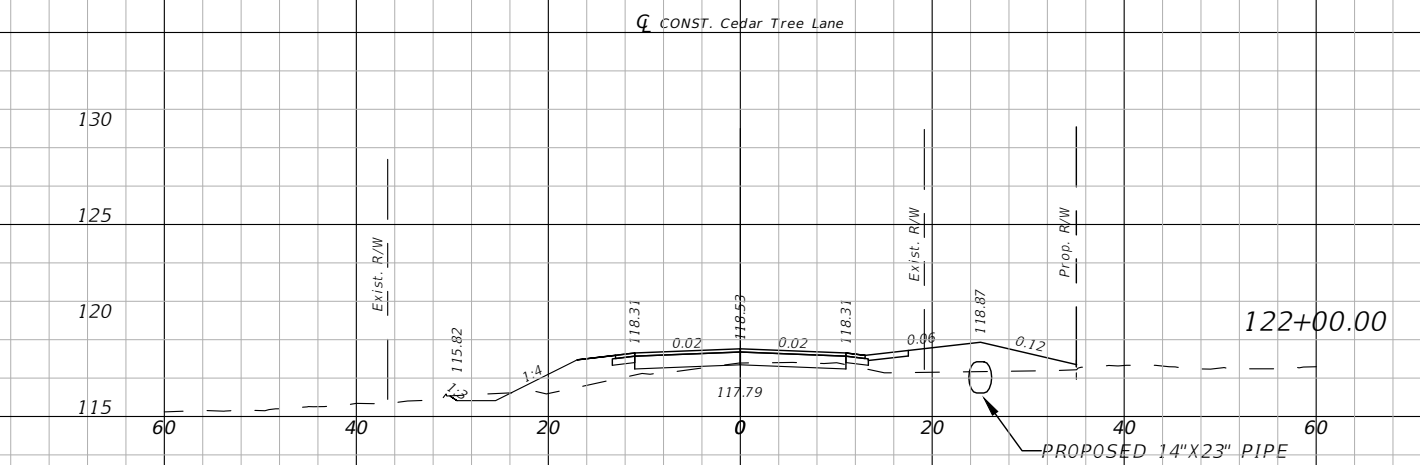
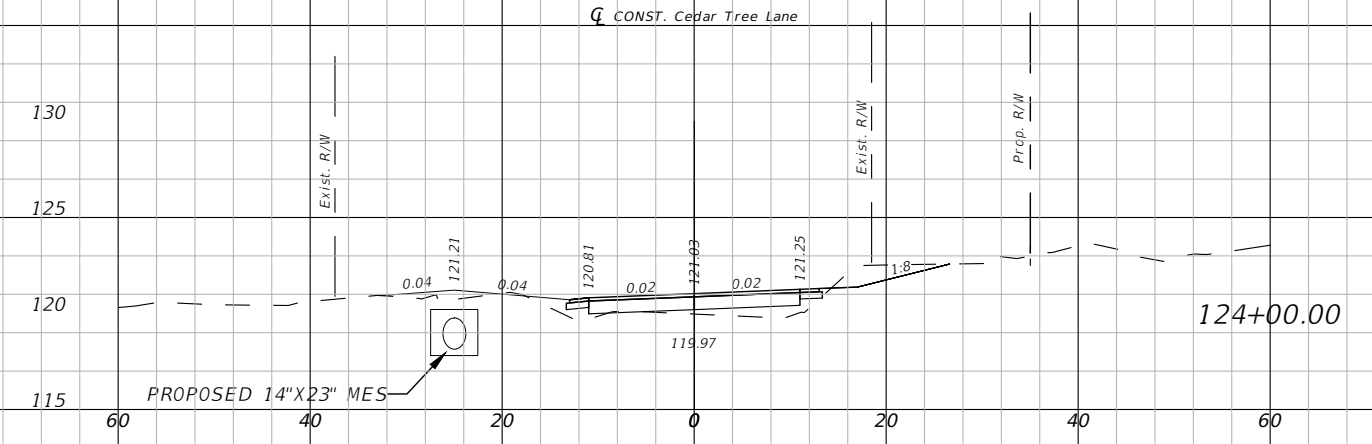
PROJECT NO.
 PD 02.03.79.52.15.ENG

SHEET NO.
 21

HORIZONTAL: 1" = 20'
 VERTICAL: 1" = 10'



END DITCH RT.
 STA. 122+50.00



CROSS SECTIONS (8)
 CEDAR TREE EAST DRP

4885 WOODBINE ROAD
 PACE, FLORIDA 32571
 PHONE: (850) 289-1000
 FAX: (850) 289-1001



PREPARED BY:

NO.	REVISIONS DESCRIPTION

DESIGNED BY:
 KEA
 2/24

DRAWN BY:
 JCB
 2/24

CHECKED BY:
 KEA
 2/24

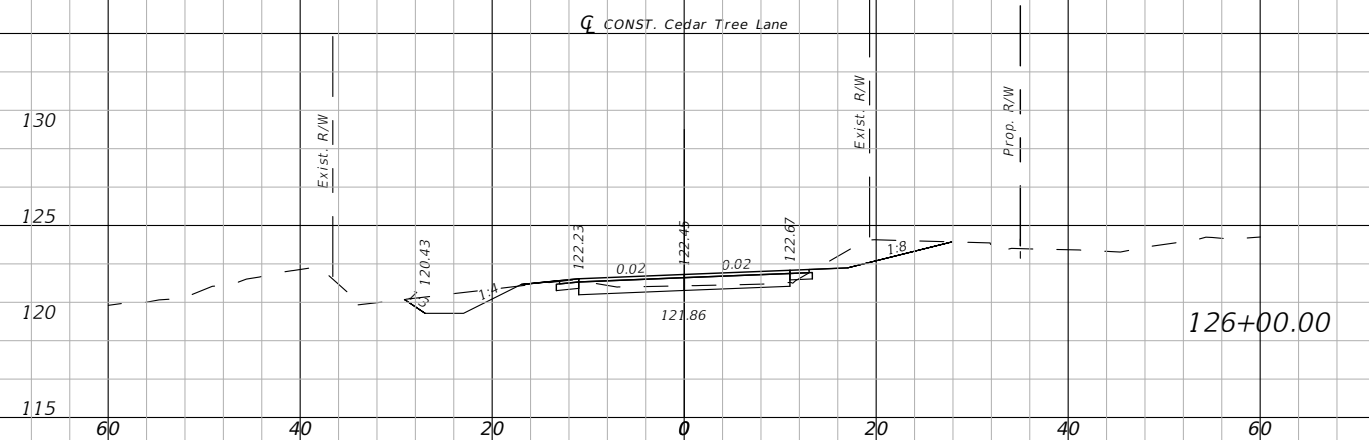
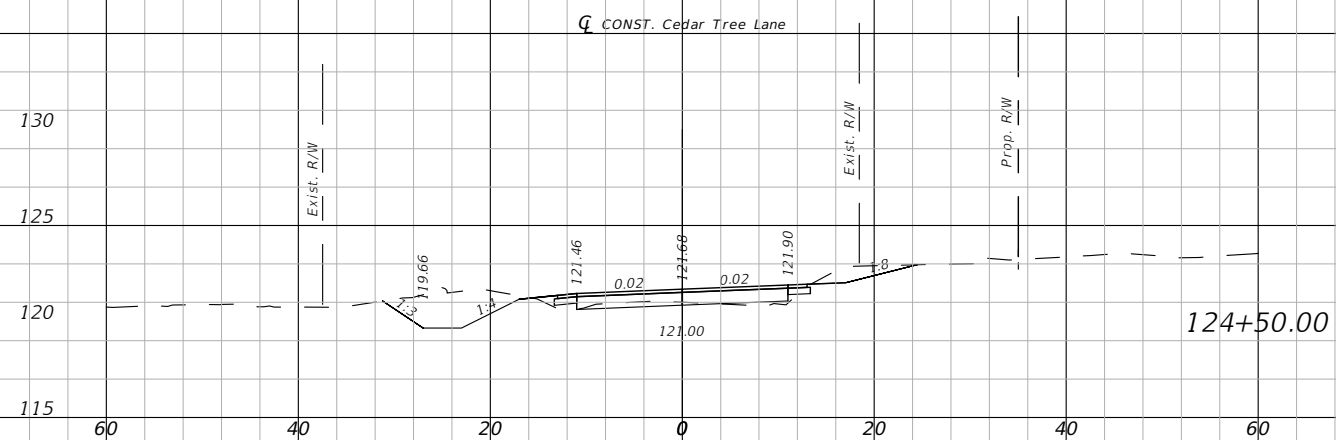
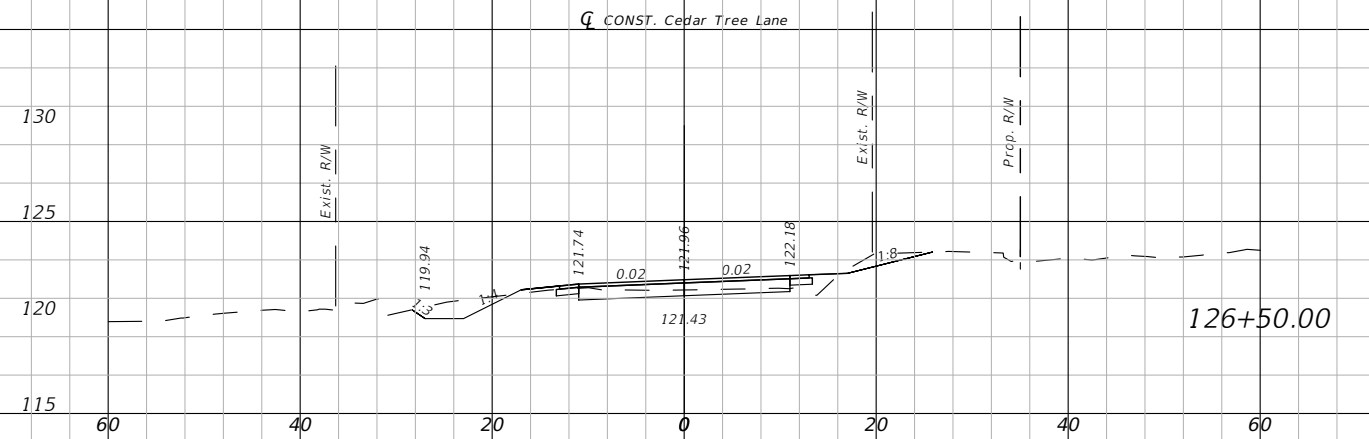
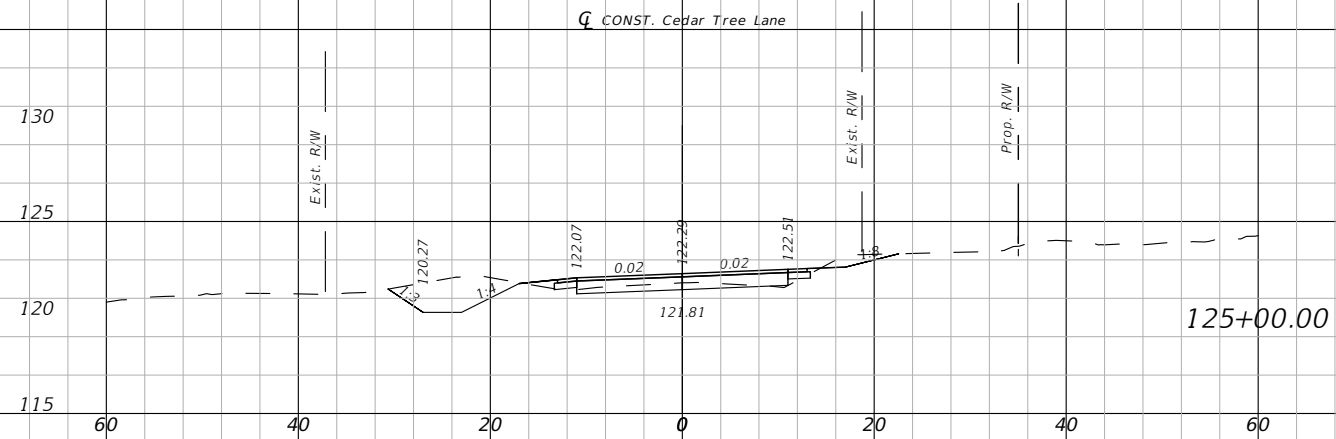
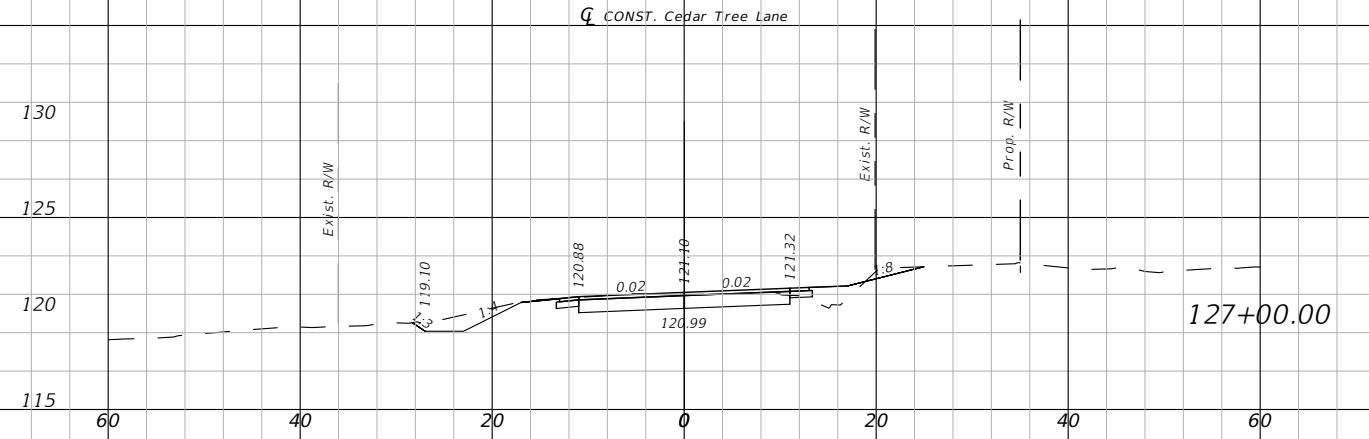
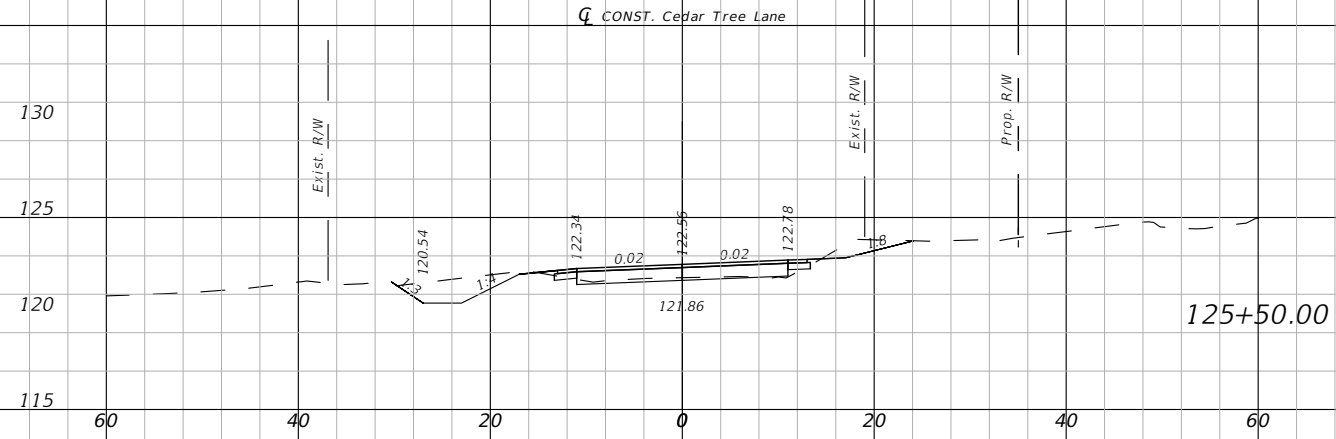
APPROVED BY:

KARI E. ANDERSON, P.E.
 LIC. No. 73720

PROJECT NO.
 PD 02.03.79.52.15.ENG

SHEET NO.
 22

HORIZONTAL: 1" = 20'
 VERTICAL: 1" = 10'



ESCAMBIA COUNTY PUBLIC WORKS
 3363 WEST PARK PLACE
 PENSACOLA, FLORIDA 32505

CROSS SECTIONS (9)
 CEDAR TREE EAST DRP

4885 WOODBINE ROAD
 PACE, FLORIDA 32571
 PHONE: (850) 289-1000
 FAX: (850) 289-1001

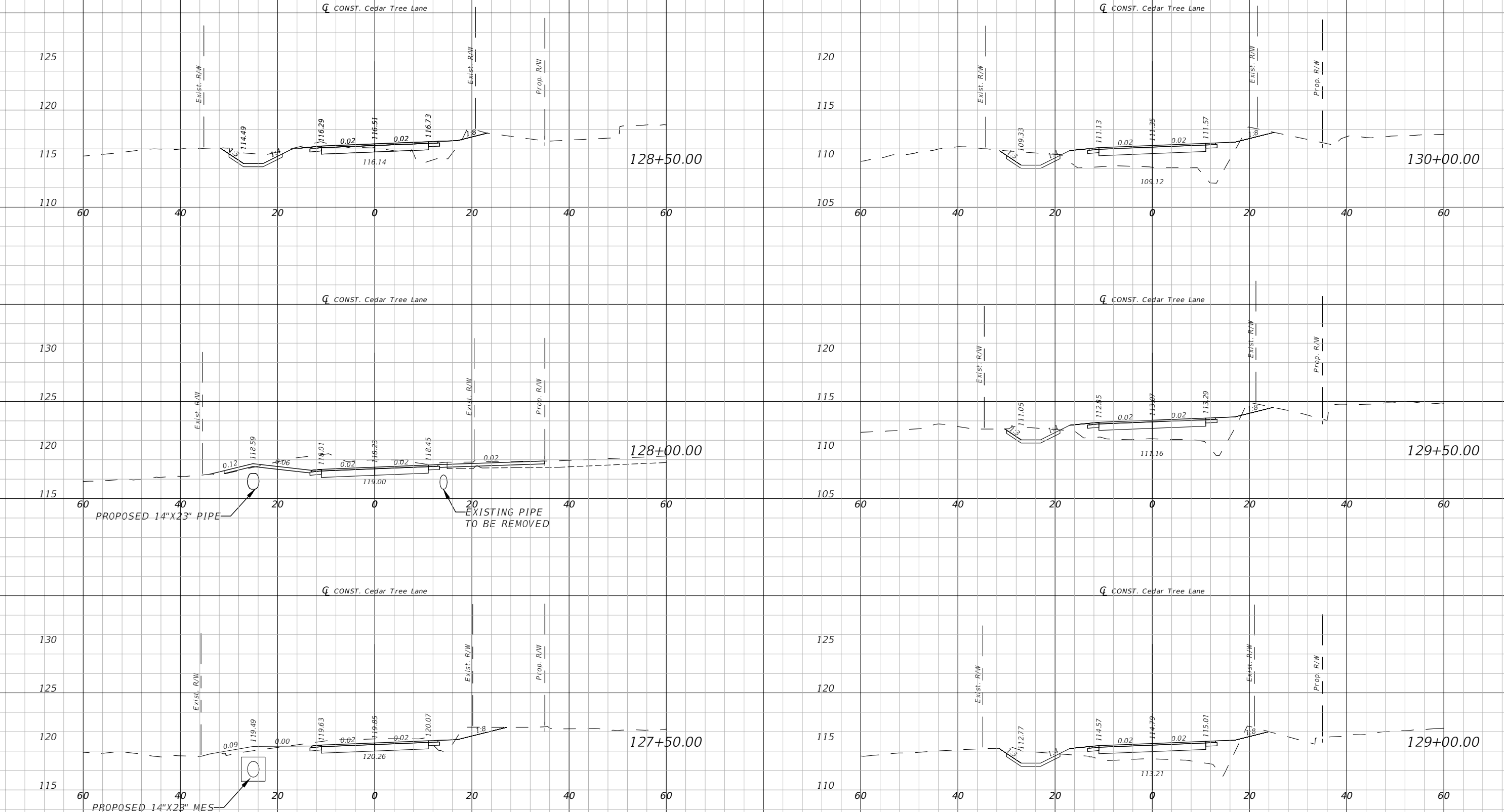


REVISIONS	
NO.	DESCRIPTION

DESIGNED BY:
 KEA
 2/24
 DRAWN BY:
 JCB
 2/24
 CHECKED BY:
 KEA
 2/24
 APPROVED BY:

KARI E. ANDERSON, P.E.
 LIC. No. 73720
 PROJECT NO.
 PD 02.03.79.52.15.ENG
 SHEET NO.
 23

HORIZONTAL: 1" = 20'
 VERTICAL: 1" = 10'



ESCAMBIA COUNTY PUBLIC WORKS
 3363 WEST PARK PLACE
 PENSACOLA, FLORIDA 32505

CROSS SECTIONS (10)
 CEDAR TREE EAST DRP

4885 WOODBINE ROAD
 PACE, FLORIDA 32571
 PHONE: (850) 289-1000
 FAX: (850) 289-1001



REVISIONS	
NO.	DESCRIPTION

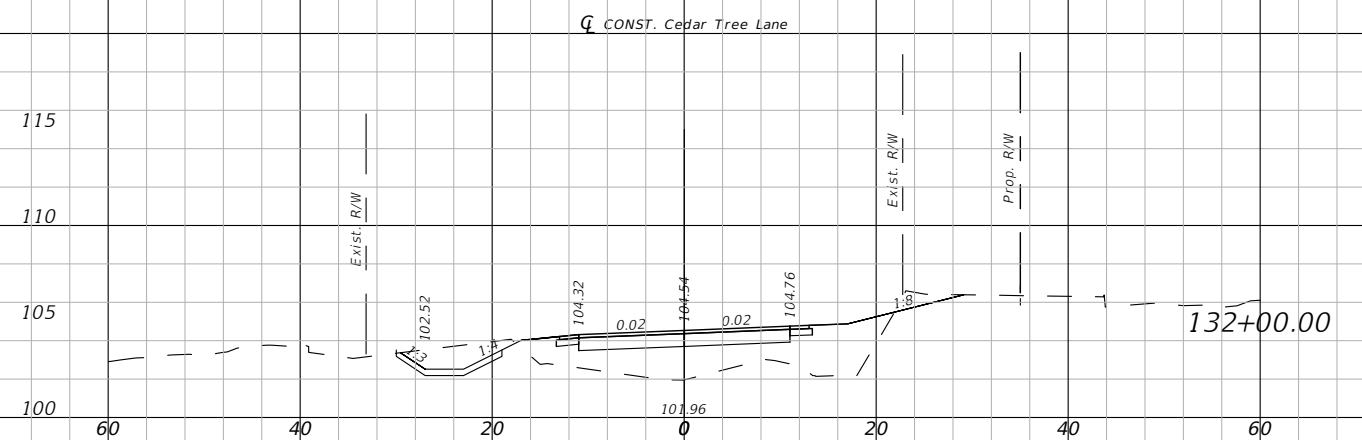
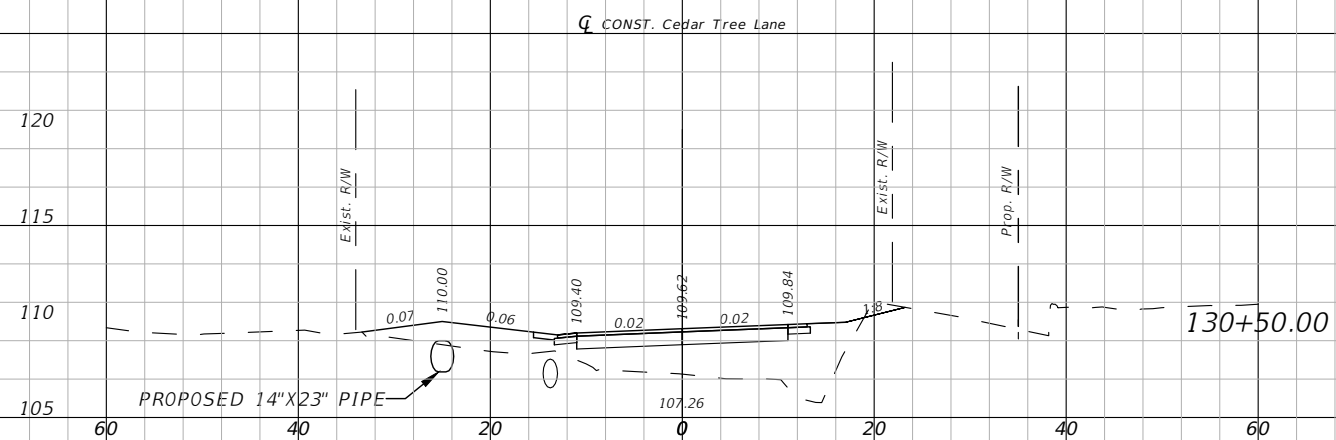
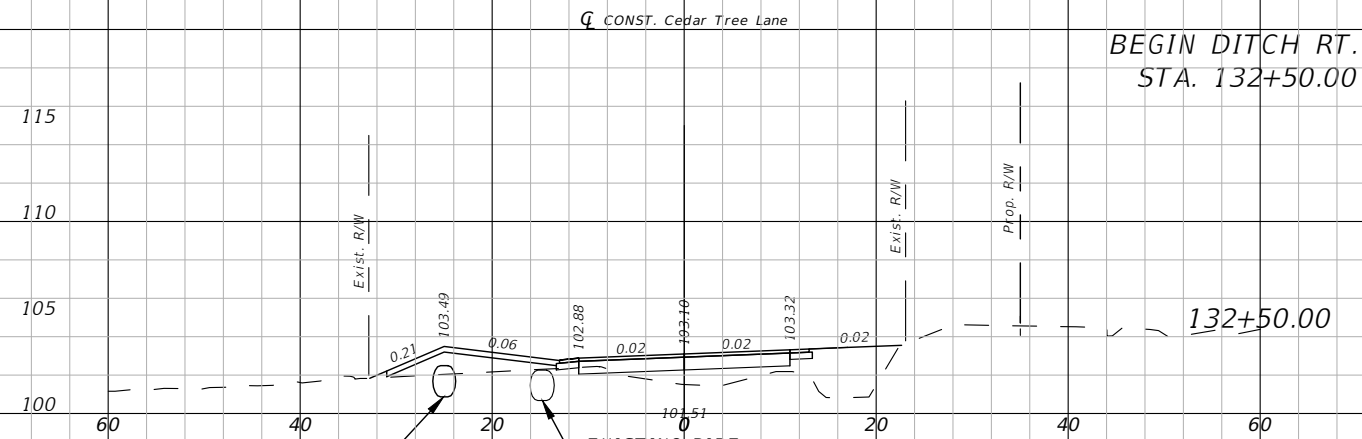
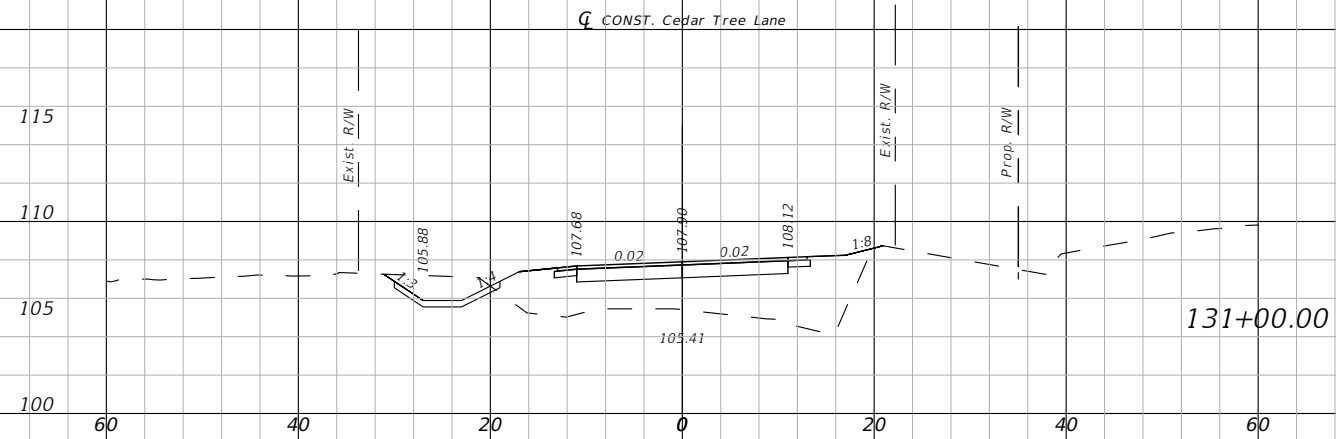
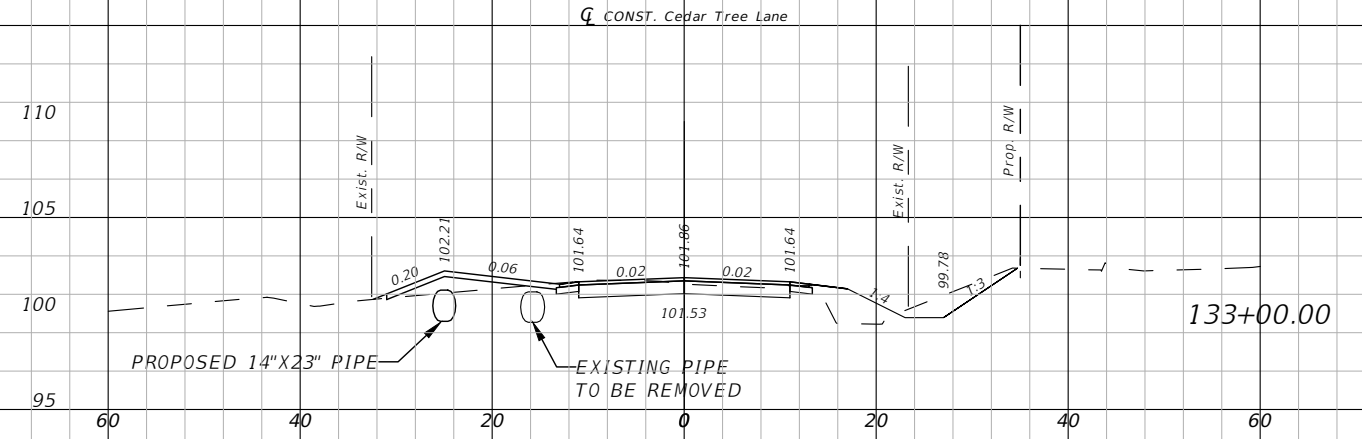
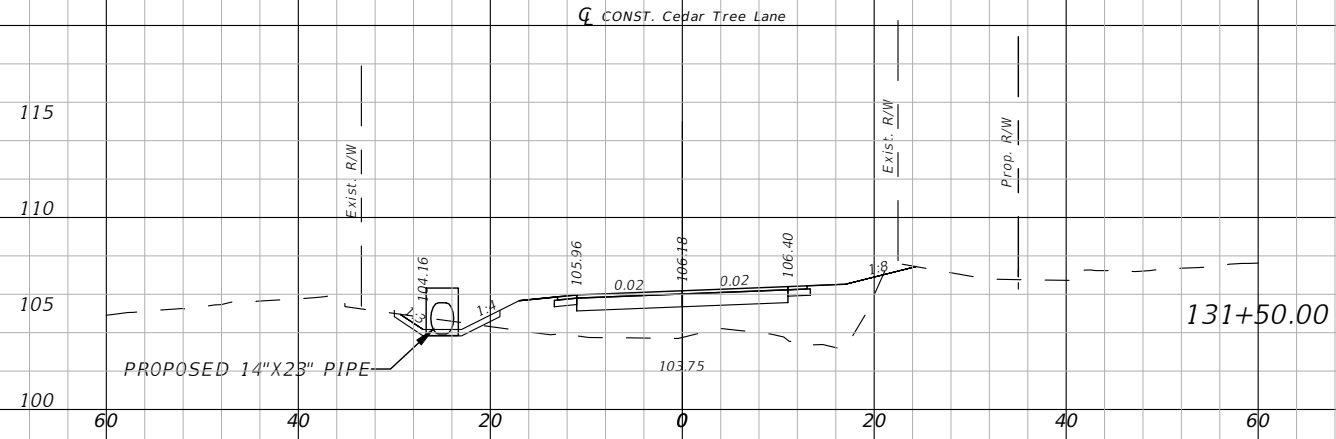
DESIGNED BY:
 KEA
 2/24
 DRAWN BY:
 JCB
 2/24
 CHECKED BY:
 KEA
 2/24
 APPROVED BY:

KARI E. ANDERSON, P.E.
 LIC. No. 73720

PROJECT NO.
 PD 02.03.79.52.15.ENG

SHEET NO.
 24

HORIZONTAL: 1" = 20'
 VERTICAL: 1" = 10'



ESCAMBIA COUNTY PUBLIC WORKS
 3363 WEST PARK PLACE
 PENSACOLA, FLORIDA 32505

CROSS SECTIONS (11)
 CEDAR TREE EAST DRP

4885 WOODBINE ROAD
 PACE, FLORIDA 32571
 PHONE: (850) 289-1000
 FAX: (850) 289-1001



REVISIONS	
NO.	DESCRIPTION

DESIGNED BY:
 KEA
 2/24
 DRAWN BY:
 JCB
 2/24
 CHECKED BY:
 KEA
 2/24
 APPROVED BY:

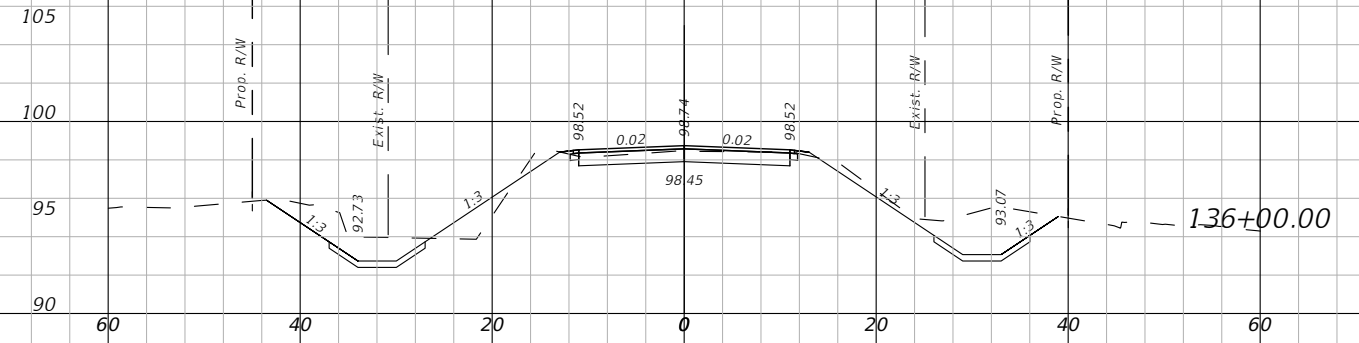
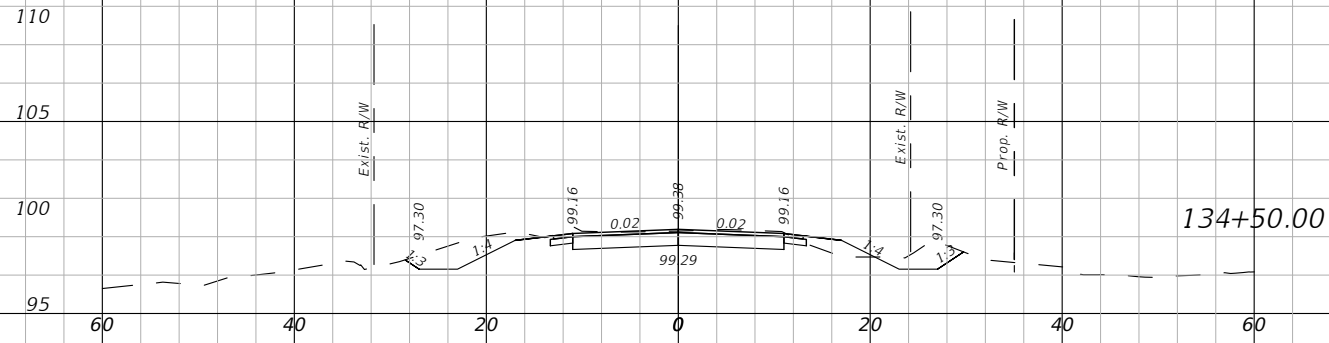
KARI E. ANDERSON, P.E.
 LIC. No. 73720
 PROJECT NO.
 PD 02.03.79.52.15.ENG
 SHEET NO.
 25

HORIZONTAL: 1" = 20'
 VERTICAL: 1" = 10'

CONST. Cedar Tree Lane

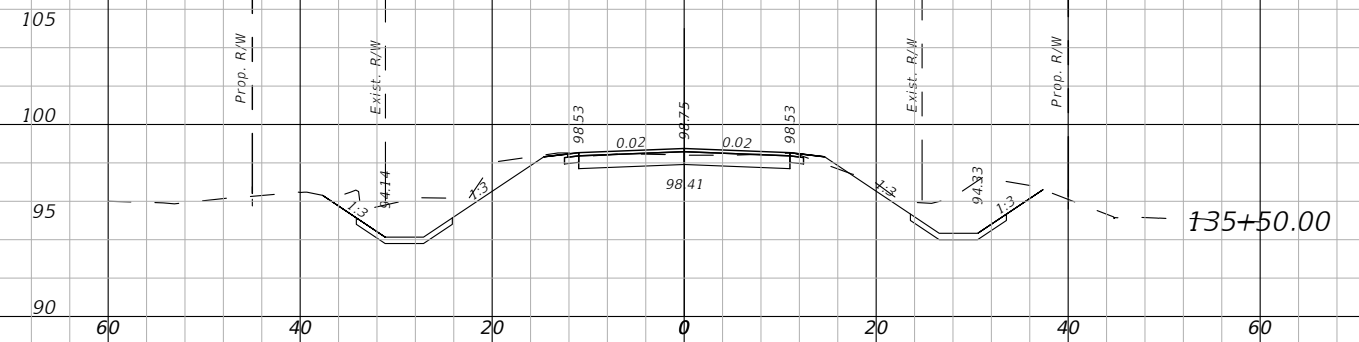
CONST. Cedar Tree Lane

END ROADWAY CONSTRUCTION
 STA. 136+47.37



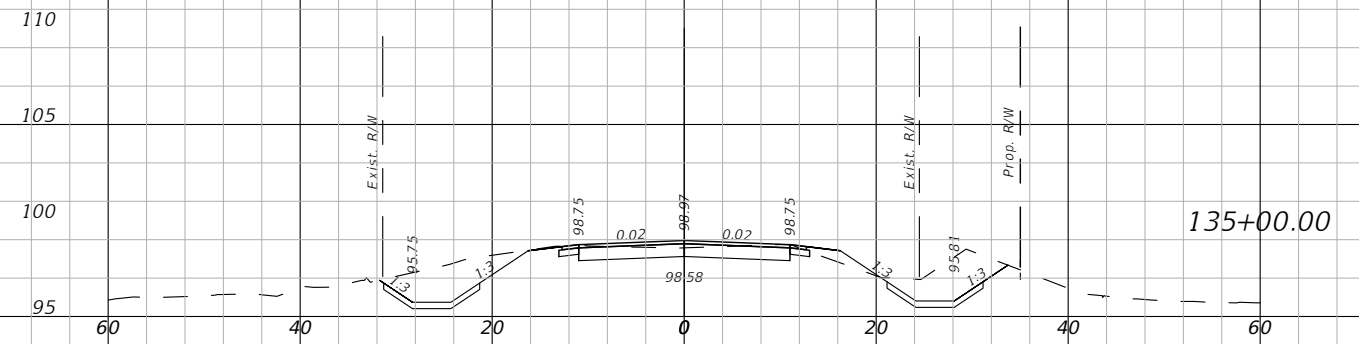
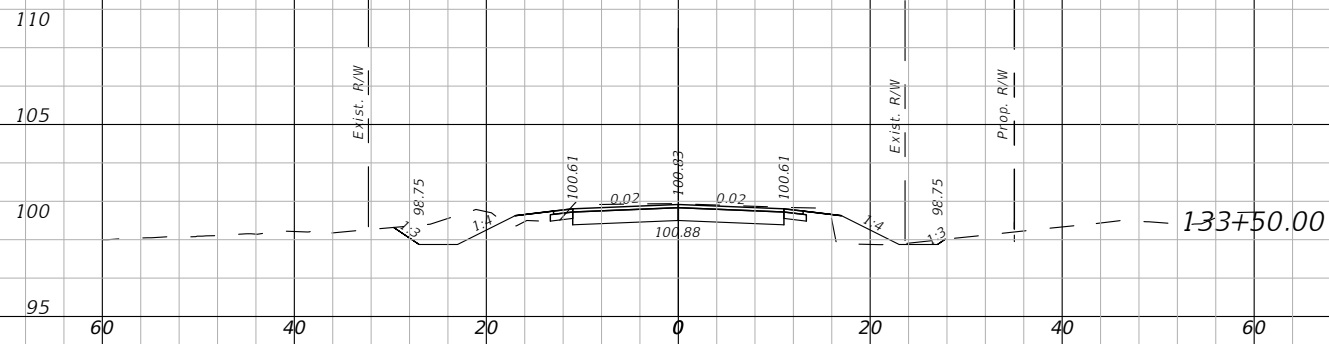
CONST. Cedar Tree Lane

CONST. Cedar Tree Lane



CONST. Cedar Tree Lane

CONST. Cedar Tree Lane



ESCAMBIA COUNTY PUBLIC WORKS
 3363 WEST PARK PLACE
 PENSACOLA, FLORIDA 32505

CROSS SECTIONS (12)
 CEDAR TREE EAST DRP

4885 WOODBINE ROAD
 PACE, FLORIDA 32571
 PHONE: (850) 289-1000
 FAX: (850) 289-1001



REVISIONS	
NO.	DESCRIPTION

DESIGNED BY:
 KEA
 2/24
 DRAWN BY:
 JCB
 2/24
 CHECKED BY:
 KEA
 2/24
 APPROVED BY:

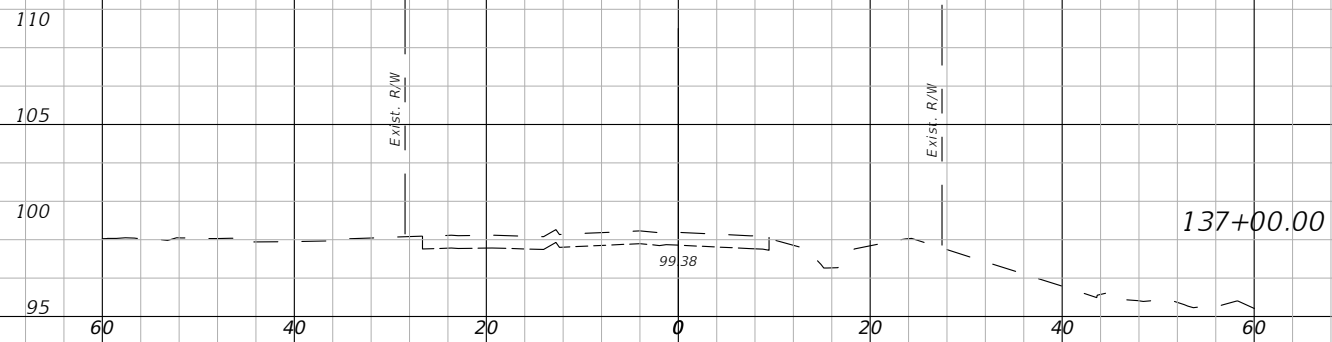
KARI E. ANDERSON, P.E.
 LIC. No. 73720
 PROJECT NO.
 PD 02.03.79.52.15.ENG
 SHEET NO.
 26

HORIZONTAL: 1" = 20'
 VERTICAL: 1" = 10'

CONST. Cedar Tree Lane

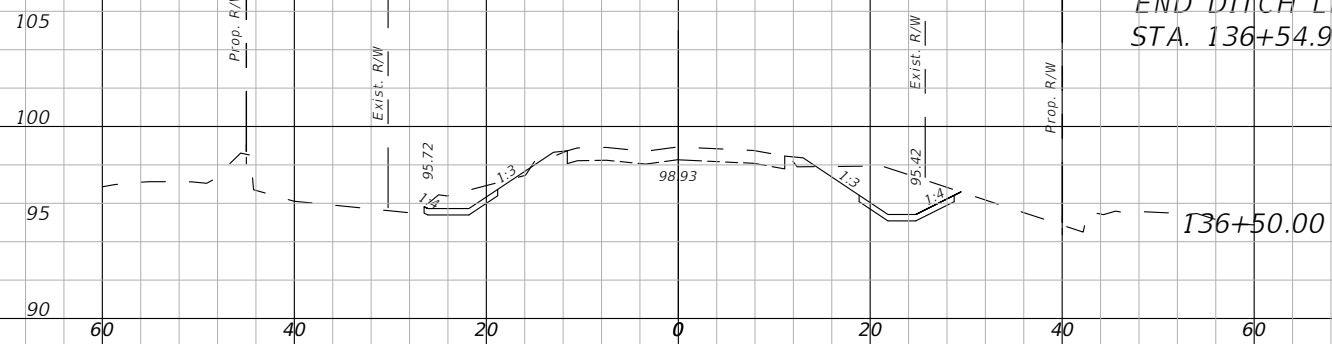


CONST. Cedar Tree Lane



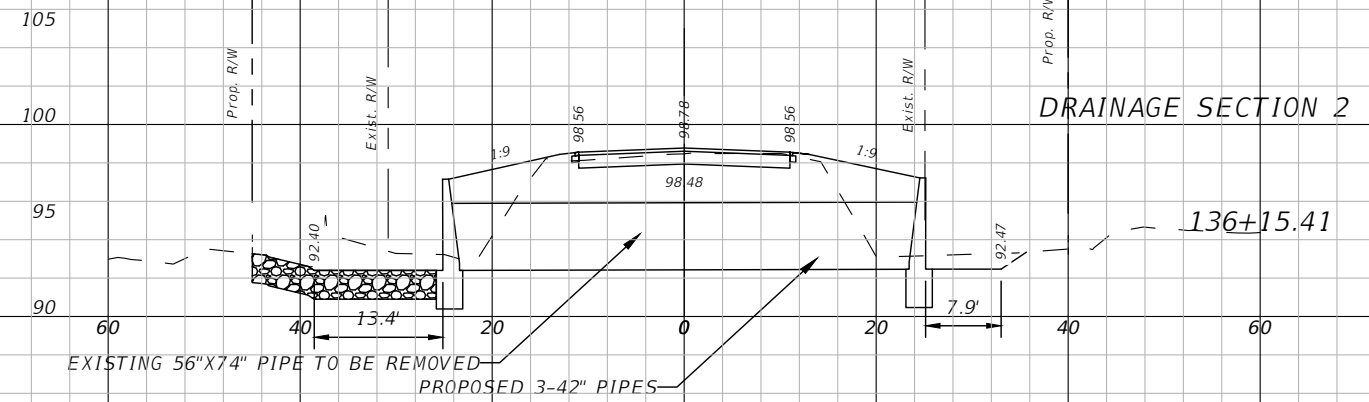
END PROJECT
 END DITCH RT.
 STA. 136+71.90

CONST. Cedar Tree Lane



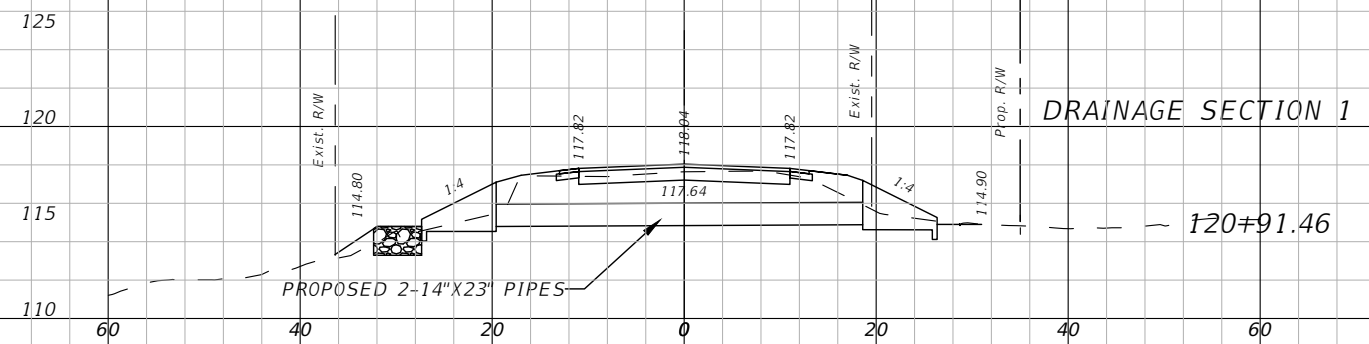
END DITCH LT.
 STA. 136+54.90

CONST. Cedar Tree Lane



DRAINAGE SECTION 2

CONST. Cedar Tree Lane



DRAINAGE SECTION 1

ESCAMBIA COUNTY PUBLIC WORKS
 3363 WEST PARK PLACE
 PENSACOLA, FLORIDA 32505

CROSS SECTIONS (13)
 CEDAR TREE EAST DRP

4885 WOODBINE ROAD
 PACE, FLORIDA 32571
 PHONE: (850) 289-1000
 FAX: (850) 289-1001



REVISIONS
 NO. DESCRIPTION

DESIGNED BY: KEA 2/24
 DRAWN BY: JCB 2/24
 CHECKED BY: KEA 2/24
 APPROVED BY:

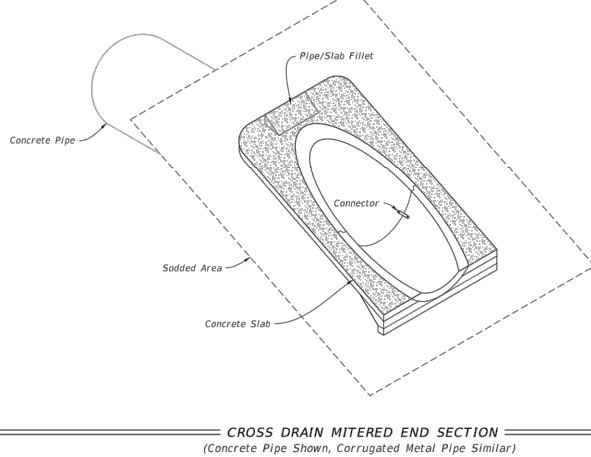
KARI E. ANDERSON, P.E.
 LIC. No. 73720

PROJECT NO.
 PD 02.03.79.52.15.ENG

SHEET NO.
 27

GENERAL NOTES:

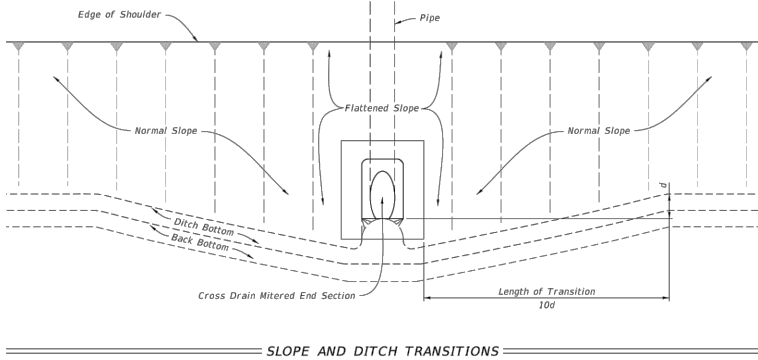
- Unless otherwise designated in the plans, concrete pipe mitered end sections may be used with any type of cross drain pipe; corrugated steel pipe mitered end sections may be used with any type of cross drain pipe except aluminum pipe; and, corrugated aluminum mitered end sections may be used with any type of cross drain pipe except steel pipe. When bituminous coated metal pipe is specified for cross drain pipe, construct the mitered end sections with like pipe or concrete pipe. When the mitered end section pipe is dissimilar to the cross drain pipe, construct a concrete jacket in accordance with Index 430-001.
- Use either corrugated metal or concrete mitered end sections for corrugated polyethylene pipe (HDPE), polyvinyl-chloride pipe (PVC), steel reinforced polyethylene pipe (SRPE), and polypropylene pipe (PP). When used in conjunction with corrugated mitered end sections, make connection using either a formed metal band specifically designated to join HDPE, PVC, SRPE, or PP pipe, with metal pipe. When used in conjunction with a concrete mitered end section, construct concrete jacket in accordance with Index 430-001.
- Class NS concrete cast-in-place reinforced slabs are required for all sizes of cross drain pipes. Construct slabs at 5 1/2" thick, unless 3" thickness is called for in the Plans.
- Select lengths of concrete pipe that avoid excessive connections in the assembly of the mitered end section.
- Repair corrugated metal pipe galvanizing that is damaged during beveling and perforating.
- When existing multiple cross drain pipes are spaced other than the dimensions shown in this Index, have nonparallel axes, or non-uniform sections, either construct the mitered end sections separately as single pipe or collectively as multiple pipe end sections as directed by the Engineer.
- Saddle Slope:
 - 1:4 Miter - Slope to $\frac{1}{2}$ of pipe for round pipes less than or equal to 18" diameter and 1:1 for round pipes greater than or equal to 24" diameter. Slope to the major axis for elliptical pipes 24"x38" or smaller and 1:2 for pipes 29"x45" or larger. Slope to the span line for pipe arch 20"x20" or smaller and 1:2 for pipe arch 35"x24" or larger.
 - 1:2 Miter - Slope to $\frac{1}{2}$ of pipe for round pipes less than or equal to 18" diameter and 1:2 for round pipes greater than or equal to 24" diameter. Slope to the major axis for elliptical pipes 29"x45" or smaller and 1:1 for pipes 34"x53" or larger. Slope 1:1 for all pipe arch sizes.
- Quantities shown are for estimating purposes only.



CROSS DRAIN MITERED END SECTION
(Concrete Pipe Shown, Corrugated Metal Pipe Similar)

TABLE OF CONTENTS:

Sheet	Description
1	General Notes and Contents
2	Single and Multiple Concrete Pipe
3	Concrete Pipe Dimensions and Quantities
4	Single and Multiple Corrugated Metal Pipe
5	Corrugated Metal Pipe Dimensions and Quantities
6	Concrete Pipe Connections and Corrugated Metal Pipe (CMP) Anchor Detail



SLOPE AND DITCH TRANSITIONS

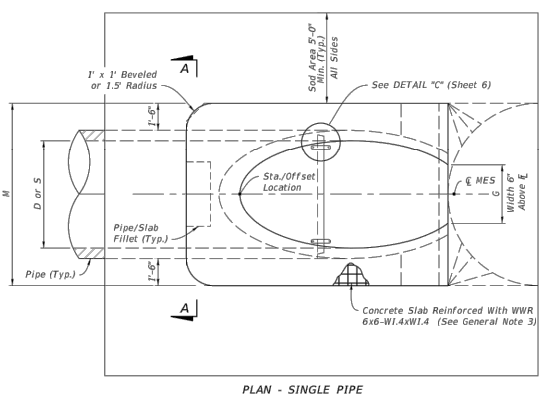
LAST REVISION 11/01/19	DESCRIPTION:	FY 2024-25 STANDARD PLANS	CROSS DRAIN MITERED END SECTION	INDEX 430-021	SHEET 1 of 6
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		TABLE 1 SINGLE AND MULTIPLE CONCRETE PIPE DIMENSIONS AND QUANTITIES																										
Dia. D	Rise R	Span S	M								5 1/2" CONC. SLAB (CY)				3" CONC. SLAB (CY)													
			A	B	C	E	F	G	H	Single Pipe	Double Pipe	Triple Pipe	Quad. Pipe	Single Pipe	Double Pipe	Triple Pipe	Quad. Pipe											
12" Slope	30"	18"	15'	2.7	1.6	2.1	4.1	2.0	8'	1.2	2.9	4.8	7.7	9.7	12.3	119'	0.39	0.58	0.77	0.96	0.27	0.41	0.54	0.67	21	24	27	30

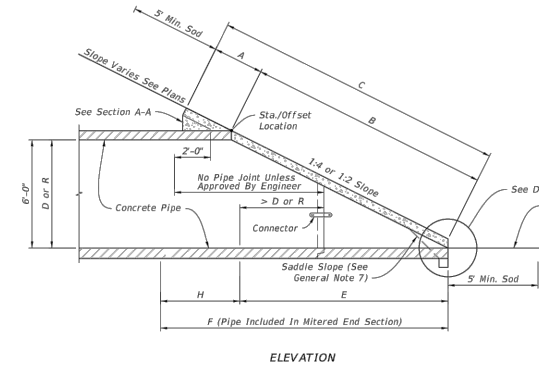
B E
 Δ 6.42 Δ 6.25 Dimensions permitted to allow use of 8' standard pipe lengths.
 ○ 10.40 ○ 10.10 Dimensions permitted to allow use of 12' standard pipe lengths.

CONCRETE PIPE DIMENSIONS AND QUANTITIES

LAST REVISION 11/01/19	DESCRIPTION:	FY 2024-25 STANDARD PLANS	CROSS DRAIN MITERED END SECTION	INDEX 430-021	SHEET 3 of 6
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PLAN - SINGLE PIPE

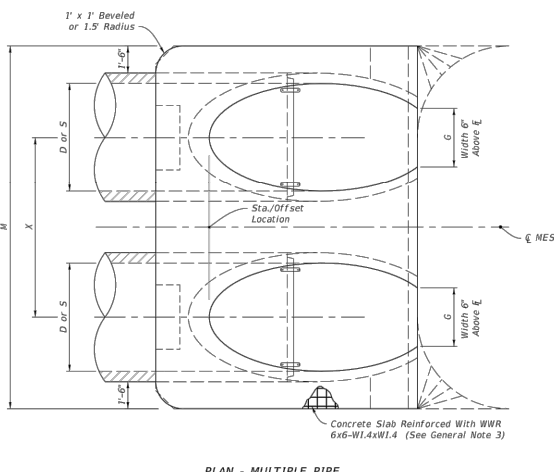


ELEVATION

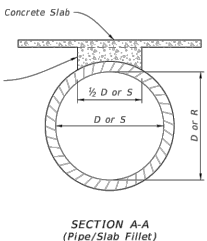
ROUND CONCRETE PIPE
(Elliptical Pipe Similar)

NOTE: See Table 1 on Sheet 3 for Dimensions and Quantities.

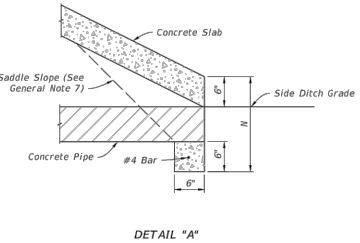
LAST REVISION 11/01/19	DESCRIPTION:	FY 2024-25 STANDARD PLANS	CROSS DRAIN MITERED END SECTION	INDEX 430-021	SHEET 2 of 6
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PLAN - MULTIPLE PIPE



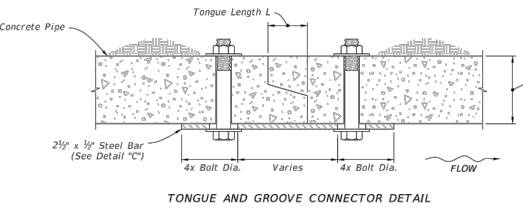
SECTION A-A (Pipe/Slab Fillet)



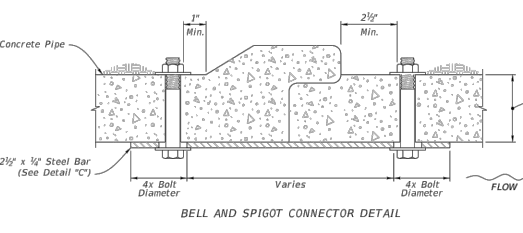
DETAIL "A"

SINGLE AND MULTIPLE CONCRETE PIPE

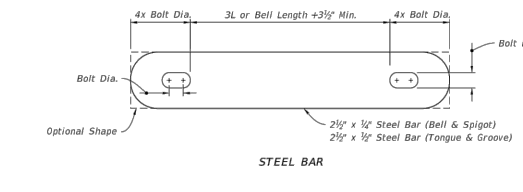
LAST REVISION 11/01/19	DESCRIPTION:	FY 2024-25 STANDARD PLANS	CROSS DRAIN MITERED END SECTION	INDEX 430-021	SHEET 2 of 6
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TONGUE AND GROOVE CONNECTOR DETAIL



BELL AND SPIGOT CONNECTOR DETAIL



STEEL BAR

NOTES:
 1. Use galvanized steel for all bars, bolts, nuts, and washers.
 2. Two connectors required per joint, located 60° right and left of bottom center of pipe.
 3. Bolt holes in pipe shell are to be drilled.

Bolt Dia.	Pipe Dia.
3/8"	15" to 36"
1/2"	42" to 72"

CONCRETE PIPE CONNECTION DETAIL - DETAIL "C"

LAST REVISION 11/01/19	DESCRIPTION:	FY 2024-25 STANDARD PLANS	CROSS DRAIN MITERED END SECTION	INDEX 430-021	SHEET 6 of 6
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CORRUGATED METAL PIPE (CMP) ANCHOR DETAIL - DETAIL "D"

CONCRETE PIPE CONNECTION AND CORRUGATED PIPE ANCHOR DETAILS

NOTES:
 1. Anchors required for CMP only.
 2. Use galvanized steel for all anchors, nuts, and washers.
 3. Bend anchor where required to center in concrete slab.
 4. Repair damaged surfaces after bending.
 5. Space anchors a distance equal to four (4) corrugations.
 6. Place the anchors in the outside crest of corrugation.
 7. Place flat washers on inside wall of pipe.
 8. Drill or punch holes in the mitered end pipe; burning not permitted.
 9. A 6" x 1/2" bolt substitution is permitted.



PREPARED BY:

REVISIONS	
NO.	DESCRIPTION

DESIGNED BY:

KEA

2/24

DRAWN BY:

JCB

2/24

CHECKED BY:

KEA

2/24

APPROVED BY:

KARI E. ANDERSON, P.E.

LIC. No. 73720

PROJECT NO.

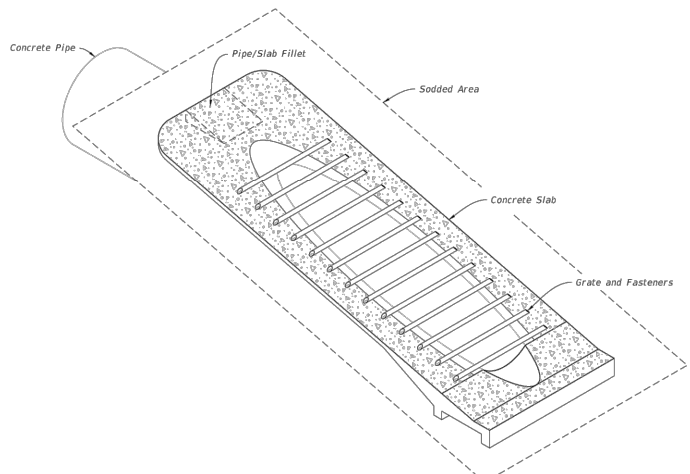
PD 02.03.79.52.15.ENG

SHEET NO.

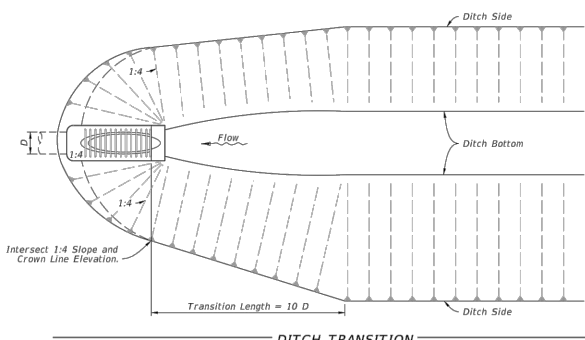
28

GENERAL NOTES:

- 1. Unless otherwise designated in the plans, concrete pipe mitered end sections may be used with any type of side drain pipe; corrugated steel pipe mitered end sections may be used with any type of side drain pipe except aluminum pipe; and corrugated aluminum mitered end sections may be used with any type of side drain pipe except steel pipe. When bituminous coated metal pipe is specified for side drain pipe, construct the mitered end sections with like pipe or concrete pipe. When the mitered end section pipe is dissimilar to the side drain pipe, construct a concrete jacket in accordance with Index 430-001 or use manufacturer approved coupler.
2. Use either corrugated metal or concrete mitered end sections for corrugated polyethylene pipe (HDPE), polyvinyl-chloride pipe (PVC), steel reinforced polyethylene pipe (SRPE), and polypropylene pipe (PP). When used in conjunction with corrugated metal mitered end sections, make connection using a formed metal band specifically designated to join HDPE, PVC, SRPE, or PVC pipe. When used in conjunction with a concrete mitered end section, construct concrete jacket in accordance with Index 430-001.
3. Use class NS concrete cast-in-place reinforced slabs for all cross drain pipes.
4. Select lengths of concrete pipe that avoid excessive connections in the assembly of the mitered end section.
5. Repair corrugated metal pipe galvanizing that is damaged during beveling and perforating.
6. When existing multiple side drain pipes are spaced other than the dimensions shown in this Index, have nonparallel axes, or non-uniform sections, either construct the mitered end sections separately as single pipe or collectively as multiple pipe end sections as directed by the Engineer.
7. Saddle Slope:
1:4 Miter - Slope to E of pipe for round pipes less than or equal to 18" diameter and 1:1 for round pipes greater than or equal to 24" diameter. Slope to the major axis for elliptical pipes 24"x38" or smaller and 1:2 for pipes 29"x45" or larger. Slope to the span line for pipe arch 28"x20" or smaller and 1:2 for pipe arch 35"x24" or larger.
1:2 Miter - Slope to E of pipe for round pipes less than or equal to 18" diameter and 1:2 for round pipes greater than or equal to 24" diameter. Slope to the major axis for elliptical pipes 29"x45" or smaller and 1:1 for pipes 34"x33" or larger. Slope 1:1 for all pipe arch sizes.
8. Quantities shown are for estimating purposes only.



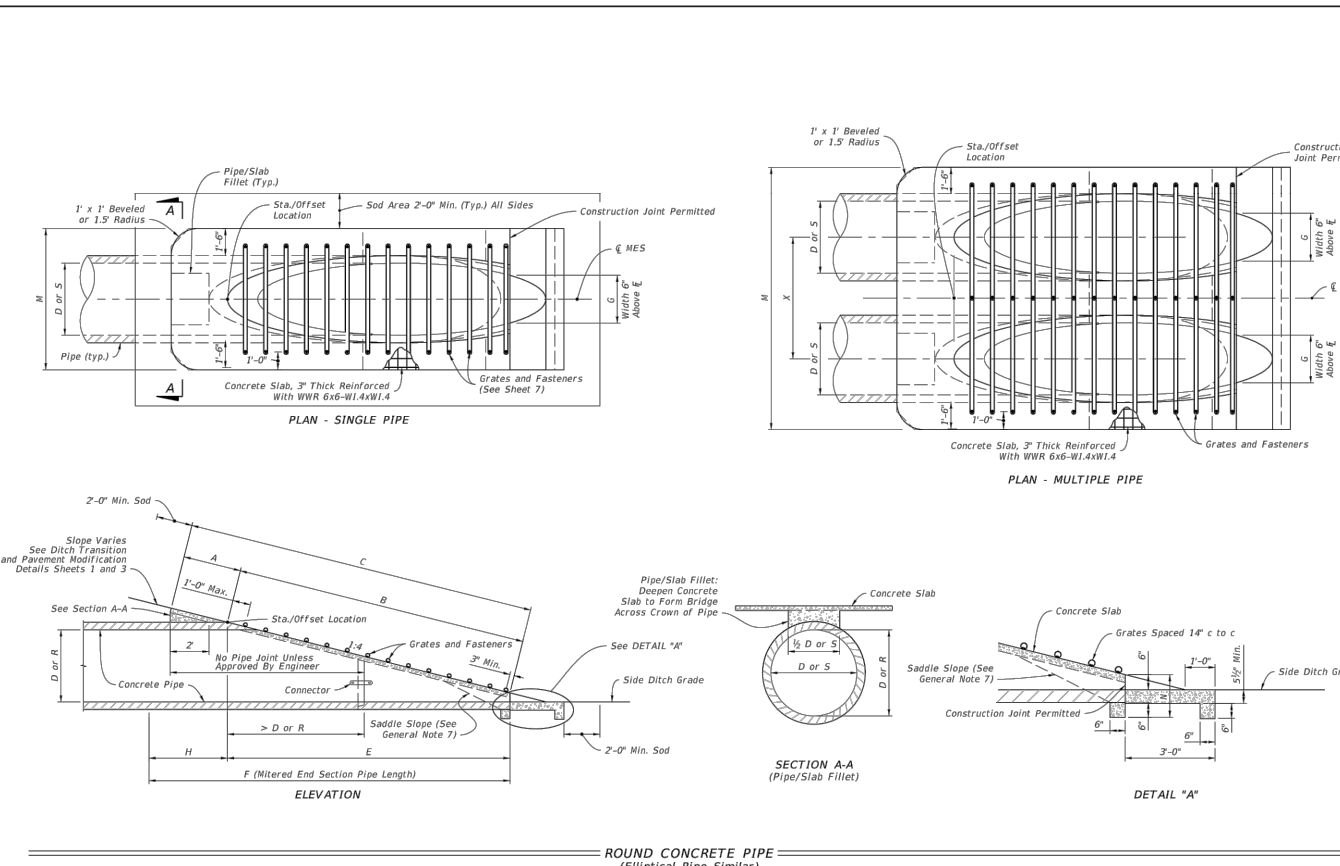
SIDEDRAIN MITERED END SECTION (Concrete Pipe Shown, Corrugated Metal Pipe Similar)



DITCH TRANSITION

TABLE OF CONTENTS: Sheet Description 1 General Notes and Contents 2 Single and Multiple Concrete Pipe 3 Concrete Pipe Dimensions and Quantities and Permissible Pavement Modifications 4 Single and Multiple Corrugated Metal Pipe 5 Corrugated Metal Dimensions and Quantities 6 Concrete Pipe Connection and Corrugated Metal Pipe Anchor Details 7 Fastener Unit and Grate Details

Table with columns: LAST REVISION (11/01/23), DESCRIPTION, FY 2024-25 STANDARD PLANS, INDEX (430-022), SHEET (1 of 7)



ROUND CONCRETE PIPE (Elliptical Pipe Similar)

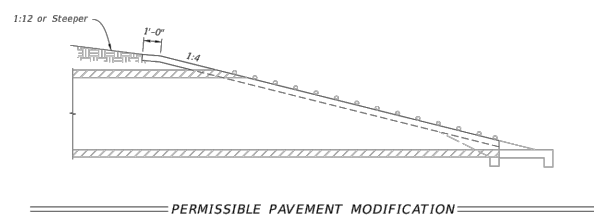
SINGLE AND MULTIPLE CONCRETE PIPE

Table with columns: LAST REVISION (11/01/18), DESCRIPTION, FY 2024-25 STANDARD PLANS, INDEX (430-022), SHEET (2 of 7)

Table titled 'SINGLE AND MULTIPLE CONCRETE PIPE DIMENSIONS AND QUANTITIES' with columns for pipe diameter, span, and various dimensions (A, B, C, E, F, G, H, M, N). It includes sub-tables for grate sizes and sodding quantities.

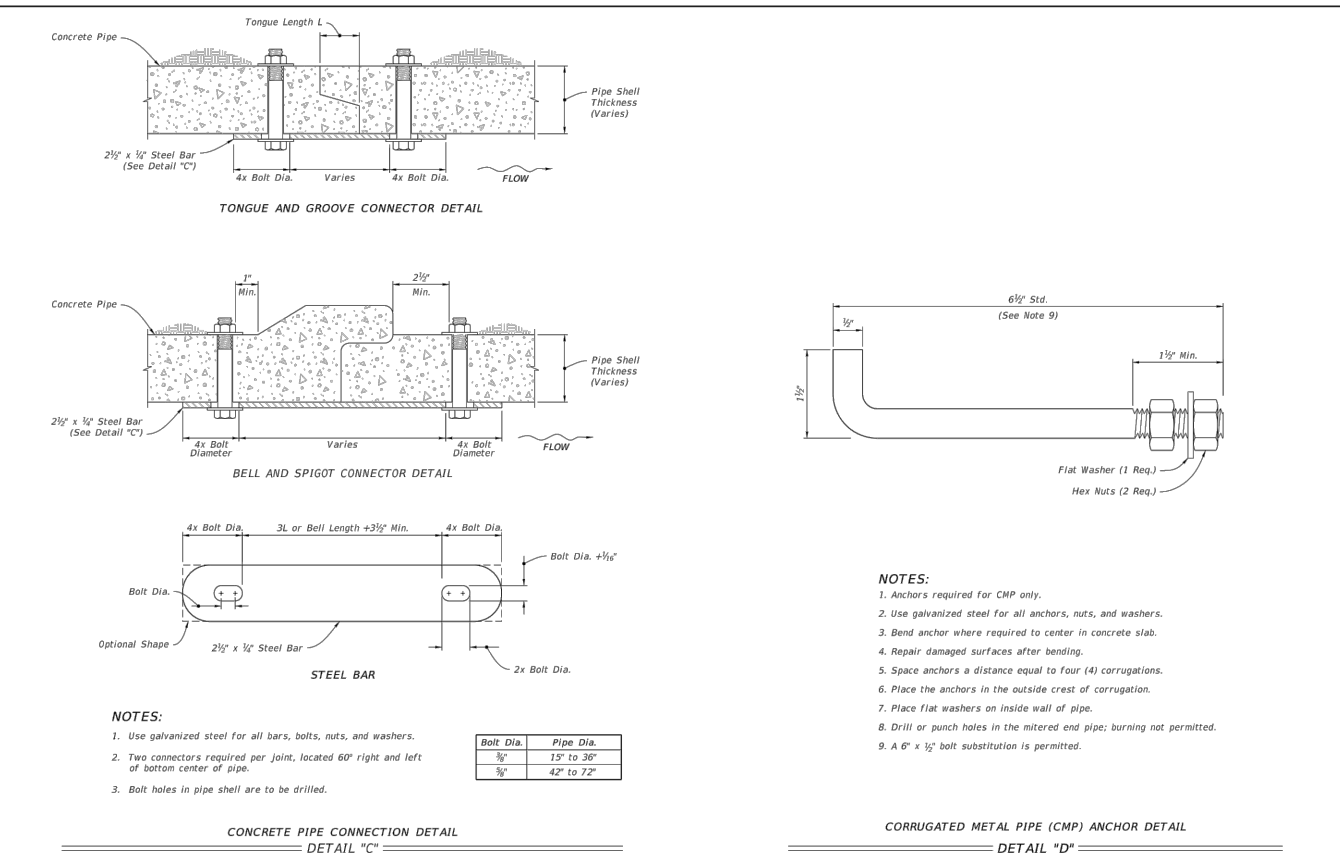
Dimensions permitted to allow use of 8" standard pipe lengths.
Dimensions permitted to allow use of 12" standard pipe lengths.

CONCRETE PIPE DIMENSIONS AND QUANTITIES AND PERMISSIBLE PAVEMENT MODIFICATION



PERMISSIBLE PAVEMENT MODIFICATION

Table with columns: LAST REVISION (11/01/19), DESCRIPTION, FY 2024-25 STANDARD PLANS, INDEX (430-022), SHEET (3 of 7)



CONCRETE PIPE CONNECTION DETAIL DETAIL "C"

CORRUGATED METAL PIPE (CMP) ANCHOR DETAIL DETAIL "D"

CONCRETE PIPE CONNECTION AND CORRUGATED PIPE ANCHOR DETAILS

Table with columns: LAST REVISION (11/01/19), DESCRIPTION, FY 2024-25 STANDARD PLANS, INDEX (430-022), SHEET (6 of 7)

ESCAMBIA COUNTY PUBLIC WORKS
3363 WEST PARK PLACE
PENSACOLA, FLORIDA 32505

MISCELLANEOUS DETAILS (2)
CEDAR TREE EAST DRP

4480 WOODBINE ROAD
PACE, FLORIDA 32571
PHONE: (850) 289-1000
FAX: (850) 289-1001

consor logo

Table with columns: REVISIONS NO., DESCRIPTION

DESIGNED BY: KEA 2/24
DRAWN BY: JCB 2/24
CHECKED BY: KEA 2/24
APPROVED BY:

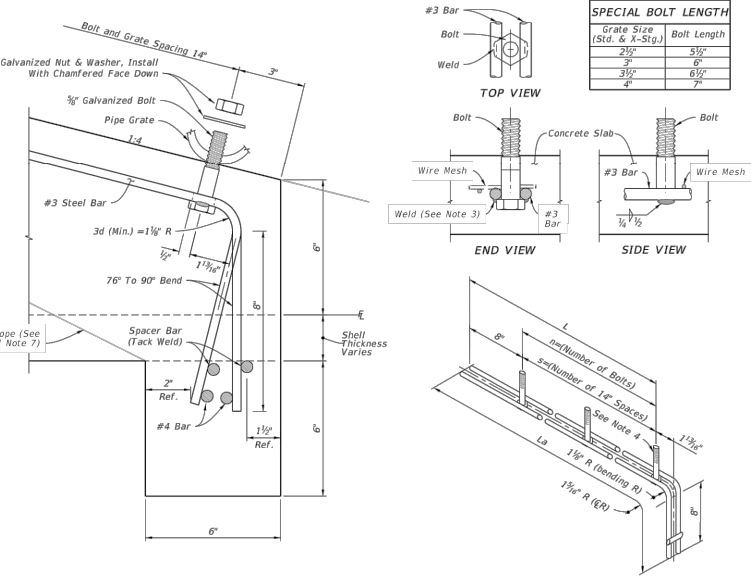
KARI E. ANDERSON, P.E.
LIC. No. 73720
PROJECT NO. PD 02.03.79.52.15.ENG
SHEET NO. 29

- NOTES:**
1. $\frac{1}{2}$ " x 3" bolts are standard for all grate fasteners, except when the contractor elects to use the slotted upper holes for the intermediate fasteners on multiple drain pipes, which will require bolt lengths in the Special Bolt Length Table.
 2. $\frac{1}{2}$ " galvanized bolt hex head bolt shown; either hex head or square head bolt may be used. Use only hex nuts.
 3. Make the specified weld when the fabricated unit is subject to hazardous hauls and repeated handling. Tack welds are permitted for local or job site fabrication. Galvanizing over welded surface not required.
 4. Omit on trailing downstream ends on divided roadways.
 5. Use grates on all round pipes 30" or greater, pipe arches 35" x 24" or greater, and elliptical pipe 19" x 30" or greater, unless excluded in the Plans. Use grates on smaller pipes only when called for in the Plans.

CONCRETE PIPE									
Pipe Dia.	s	n	L	La	Drain Size	s	n	L	La
15"	3	4	4'-0"	4'-11"	12"x18"	2	3	2'-10"	3'-9"
18"	4	5	5'-2"	6'-3"	14"x23"	3	4	4'-0"	4'-11"
24"	6	7	7'-6"	8'-5"	18"x30"	4	5	5'-2"	6'-1"
30"	7	8	8'-8"	9'-7"	24"x38"	5	6	6'-4"	7'-3"
36"	8	10	11'-0"	12'-11"	29"x45"	7	8	8'-8"	9'-7"
42"	11	12	13'-4"	14'-3"	36"x53"	8	9	9'-10"	10'-9"
48"	13	14	15'-8"	16'-7"	38"x60"	10	11	12'-2"	13'-1"
54"	14	15	16'-10"	17'-9"	43"x68"	11	12	13'-4"	14'-3"
60"	16	17	18'-2"	19'-1"	48"x76"	13	14	15'-0"	16'-9"
					53"x83"	14	15	16'-10"	17'-9"
					58"x91"	15	16	18'-0"	18'-11"

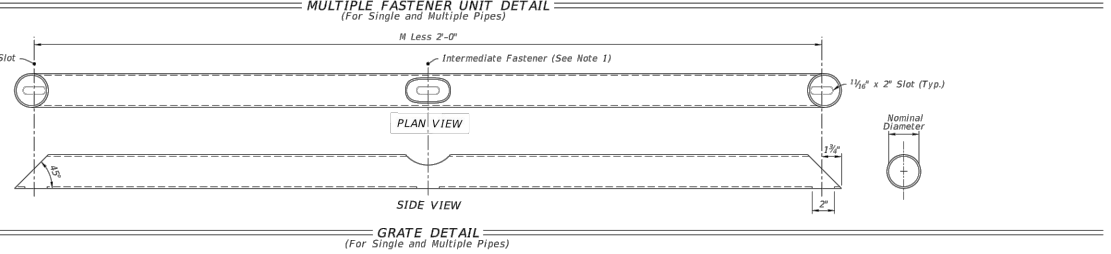
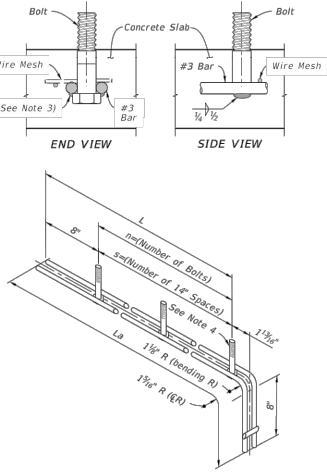
CORRUGATED METAL PIPE									
Pipe Dia.	s	n	L	La	Drain Size	s	n	L	La
15"	3	3	2'-10"	3'-2"	12"x18"	1	2	1'-8"	2'-2"
18"	3	4	4'-0"	4'-11"	14"x23"	2	3	2'-10"	3'-9"
24"	5	6	6'-4"	7'-3"	18"x30"	4	5	5'-2"	6'-1"
30"	7	8	8'-8"	9'-7"	24"x38"	5	6	6'-4"	7'-3"
36"	8	9	9'-10"	10'-9"	29"x45"	6	7	7'-6"	8'-5"
42"	10	11	12'-2"	13'-1"	36"x53"	7	8	8'-8"	9'-7"
48"	12	13	14'-4"	15'-3"	38"x60"	9	10	11'-0"	11'-11"
54"	14	15	16'-10"	17'-9"	43"x68"	10	11	12'-2"	13'-1"
60"	15	16	18'-0"	18'-11"	48"x76"	12	13	14'-0"	15'-9"

* See Note 5



SPECIAL BOLT LENGTH

Grate Size (Std. & X-Stg.)	Bolt Length
24"	5 1/2"
30"	6"
36"	6 1/2"
42"	7"

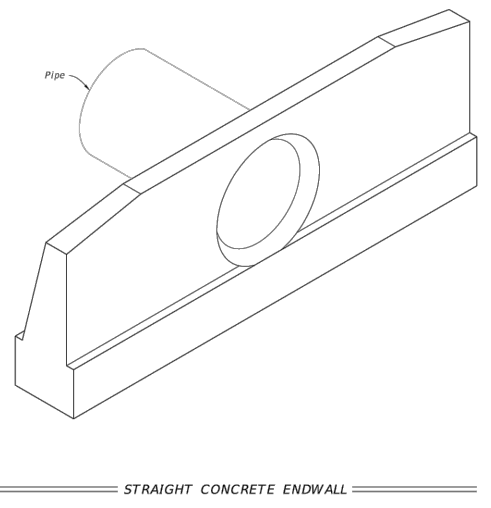


LAST REVISION	DESCRIPTION:	FY 2024-25	INDEX	SHEET
11/01/20		STANDARD PLANS	430-022	7 of 7

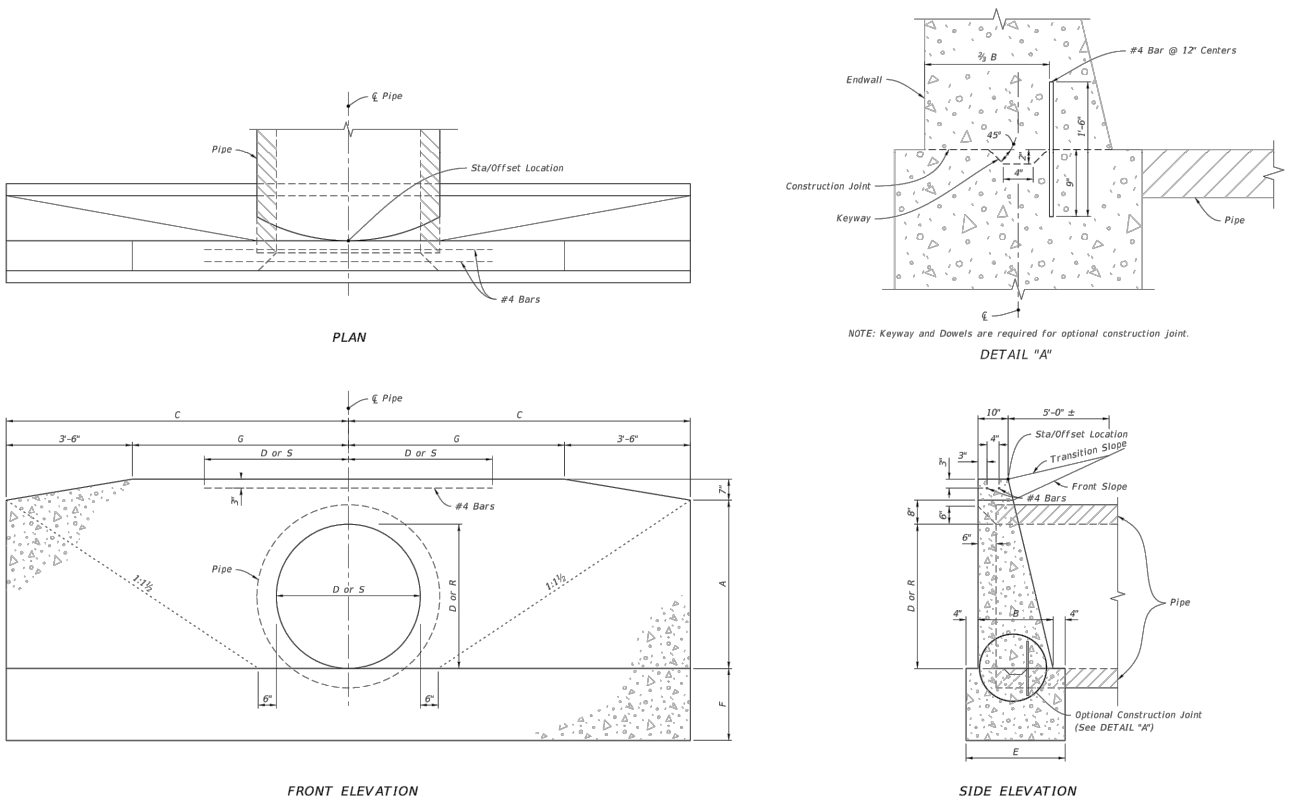
- GENERAL NOTES:**
1. Use Class II concrete.
 2. Reinforcing steel is either Grade 40 or 60.
 3. Endwalls may be cast in place or precast concrete. (Additional reinforcement necessary for handling precast units will be determined by the Contractor or the supplier).
 4. Chamfer all exposed edges and corners to $\frac{1}{4}$ ".
 5. Endwall dimensions, locations and positions are for round and elliptical concrete pipe and for round and pipe-arch corrugated metal pipe. Round concrete pipe shown.
 6. On outlet ditches with side slopes flatter than 1:1.5 provide 20" transitions from the endwall to the flatter side slopes, right of way permitting.
 7. Construct front slope and ditch transitions in accordance with Index 430-001.
 8. Quantities shown are for estimating purposes only.

TABLE OF CONTENTS:

Sheet	Description
1	General Notes and Contents
2	Concrete Endwall Details
3	Concrete and Metal Pipe Tables
4	Spacing For Multiple Pipes



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11/01/21		STANDARD PLANS	430-030	1 of 4



CONCRETE ENDWALL DETAILS

LAST REVISION	DESCRIPTION:	FY 2024-25	INDEX	SHEET
11/01/19		STANDARD PLANS	430-030	2 of 4

ROUND CONCRETE AND CORRUGATED METAL PIPE

Pipe Dia. D	Opening Area (SF)				Dimensions																Dik D								
	Number Of Pipes				Class II Concrete (CY)																								
	1	2	3	4	A	B	C	E	F	G	Y	X	Number Of Pipe And Skew Angle Of Pipe (a)																
15"	1.23	2.46	3.69	4.92	1'-11"	1'-2"	4'-0"	1'-10"	1'-2"	0'-8"	2'-7"	2'-7"	2'-8"	3'-0"	3'-8"	1.23	1.59	1.60	1.65	1.74	1.94	1.96	2.05	2.23	2.30	2.34	2.47	2.74	15"

ELLIPTICAL CONCRETE AND CORRUGATED METAL PIPE ARCH

Pipe Rise R	Span S	Opening Area (SF)				Dimensions																Rise R	Span S	Approx. Equiv. Round								
		Number Of Pipes				Class II Concrete (CY)																										
		1	2	3	4	A	B	C	E	F	G	Y	X	Number Of Pipe And Skew Angle Of Pipe (a)																		
12"	18"	1.3	2.6	3.9	5.2	1'-8"	1'-2"	3'-9"	1'-10"	1'-2"	0'-8"	2'-7"	2'-7"	2'-8"	3'-0"	3'-8"	1.09	1.45	1.46	1.51	1.60	1.80	1.82	1.91	2.09	2.16	2.20	2.33	2.60	12"	18"	15"

- NOTES:**
1. Dimension X is calculated as: $X = Y^2 \text{SEC } a$.
 2. Select tabular quantities using skew values as follows:
End Skew to Pipe Use Tabulated Value
0° to 5° 0"
6° to 15° 15"
16° to 30° 30"
31° or Over 45"

LAST REVISION	DESCRIPTION:	FY 2024-25	INDEX	SHEET
11/01/21		STANDARD PLANS	430-030	3 of 4

CONCRETE AND METAL PIPE TABLES



REVISIONS

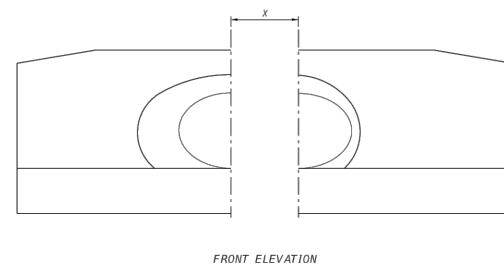
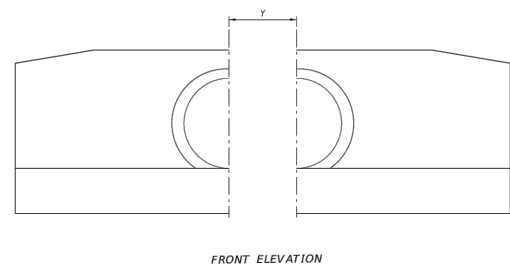
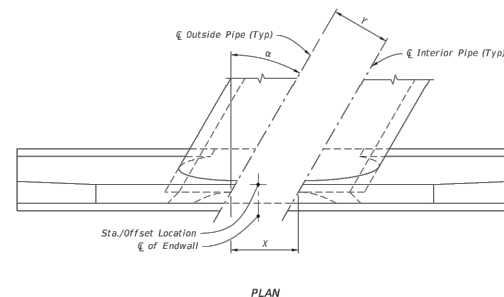
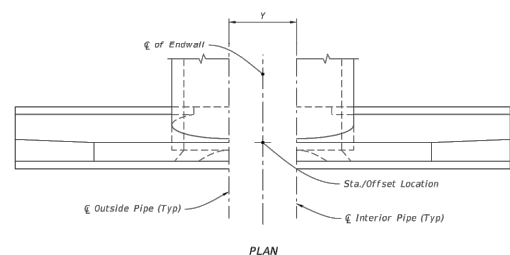
NO.	DESCRIPTION

DESIGNED BY:
KEA
2/24

DRAWN BY:
JCB
2/24

CHECKED BY:
KEA
2/24

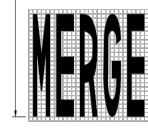
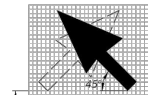
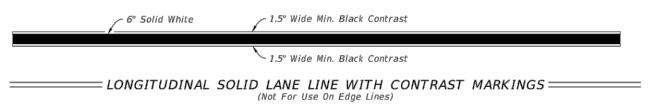
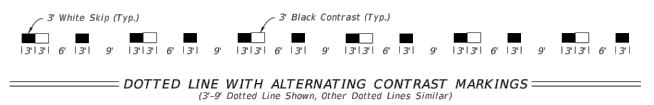
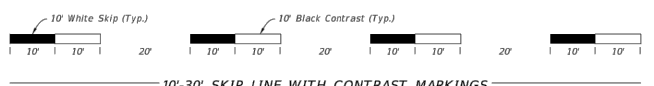
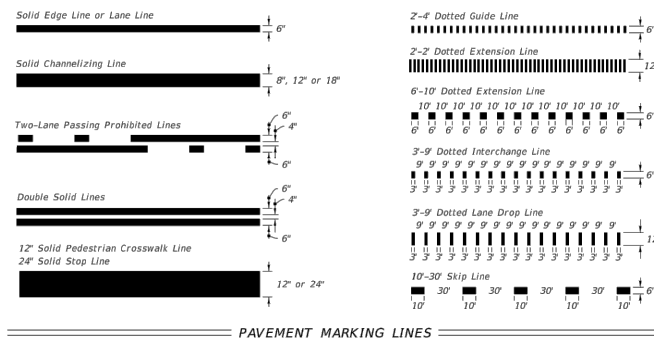
APPROVED BY:



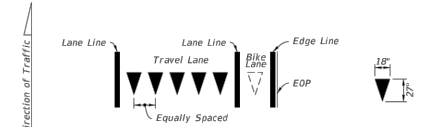
LEGEND:
 alpha Pipe Skew Angle
 Y Center to Center between pipes
 X Center to Center along Front of Headwall

SPACING FOR MULTIPLE PIPES

LAST REVISION 11/01/19	DESCRIPTION: FY 2024-25 STANDARD PLANS	FDOT	INDEX 430-030	SHEET 4 of 4
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MARKINGS FOR MERGE



Yield Lines consist of five - 18" x 27" white triangles which face traffic. Equally space triangles within traffic lane. When a bike lane is present, add one additional triangle in the center of the bike lane.

YIELD LINES

LAST REVISION 11/01/22	DESCRIPTION: FY 2024-25 STANDARD PLANS	FDOT	INDEX 711-001	SHEET 2 of 13
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ESCAMBIA COUNTY PUBLIC WORKS
 3363 WEST PARK PLACE
 PENSACOLA, FLORIDA 32505

MISCELLANEOUS
 DETAILS (4)
 CEDAR TREE
 EAST DRP

4480 WOODBINE ROAD
 PALM BEACH, FLORIDA 33471
 PHONE: (850) 289-1000
 FAX: (850) 289-1001

PREPARED BY:

REVISIONS	
NO.	DESCRIPTION

DESIGNED BY:
KEA
2/24

DRAWN BY:
JCB
2/24

CHECKED BY:
KEA
2/24

APPROVED BY:

KARI E. ANDERSON, P.E.
LIC. No. 73720

PROJECT NO.
PD 02.03.79.52.15.ENG

SHEET NO.
31