

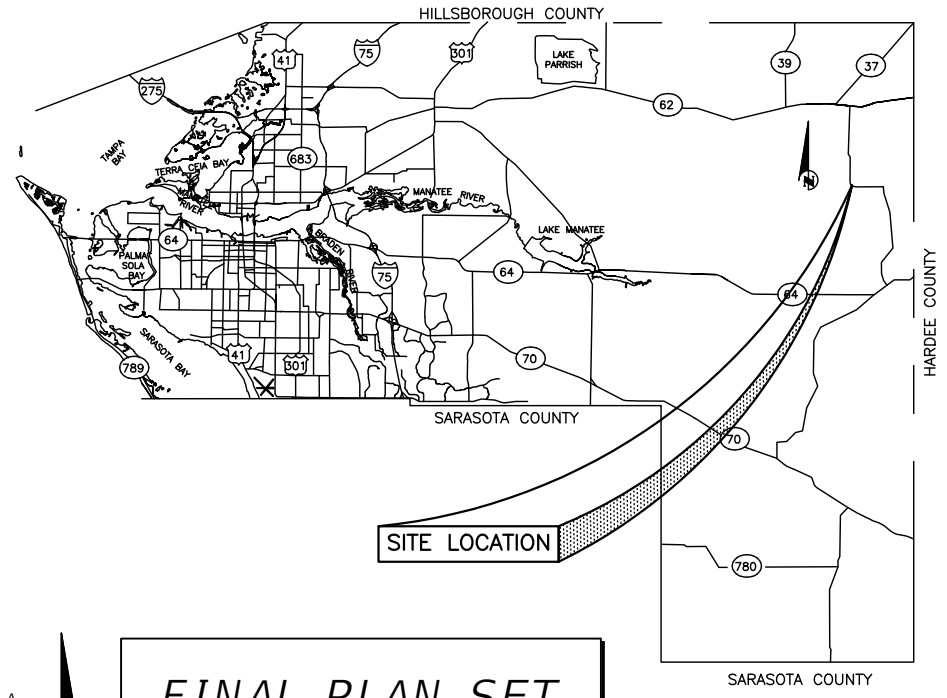
CONTRACT PLAN COMPONENTS

ROADWAY PLANS
STRUCTURE PLANS



MANATEE COUNTY
PUBLIC WORKS DEPARTMENT

CONTRACT PLANS
MANATEE PROJECT ID 6104760
DUETTE ROAD BRIDGE REPLACEMENT



"GOVERNING STANDARD PLANS:
FLORIDA DEPARTMENT OF TRANSPORTATION, FY 2024-25 STANDARD PLANS FOR
ROAD AND BRIDGE CONSTRUCTION AND APPLICABLE INTERIM REVISIONS (IRS).

STANDARD PLANS FOR ROAD CONSTRUCTION AND ASSOCIATED IRS ARE
AVAILABLE AT THE FOLLOWING WEBSITE:
[HTTPS://WWW.FDOT.GOV/DESIGN/STANDARDPLANS](https://www.fdot.gov/design/standardplans)

APPLICABLE IRS: IR536-001-01, IR521-001-01

STANDARD PLANS FOR BRIDGE CONSTRUCTION ARE INCLUDED IN THE
STRUCTURES PLANS COMPONENT.

GOVERNING STANDARD SPECIFICATIONS:
FLORIDA DEPARTMENT OF TRANSPORTATION, FY 2024-25 STANDARD
SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AT THE FOLLOWING
WEBSITE:
[HTTPS://WWW.FDOT.GOV/PROGRAMMANAGEMENT/IMPLEMENTED/SPECSBOOKS"](https://www.fdot.gov/programmanagement/implemented/specsbooks)

OTHER RELATED STANDARDS AND SPECIFICATIONS

- A. MANATEE COUNTY HIGHWAY & TRAFFIC STANDARDS MANUAL
AND STORMWATER MANAGEMENT DESIGN MANUAL (APRIL 2022).
- B. MANATEE COUNTY UTILITIES STANDARDS MANUAL (JUNE 2020).

ATTENTION IS DIRECTED TO THE FACT THAT THESE PLANS
MAY HAVE BEEN REDUCED IN SIZE BY REPRODUCTION. THIS
MUST BE CONSIDERED WHEN OBTAINING SCALED DATA.

UTILITY WARNING NOTE

ABOVE GROUND AND / OR UNDERGROUND UTILITIES MAY BE IN THE AREA OF THIS
PROJECT - PROCEED WITH CAUTION - THE CONTRACTOR SHALL CALL SUNSHINE
STATE "ONE CALL" AT 1-800-432-4770 AND THE UTILITY OWNERS IN ADVANCE OF
BEGINNING WORK, IN ACCORDANCE WITH CHAPTER 556, FLORIDA STATUTES.



SUMMARY OF REVISIONS

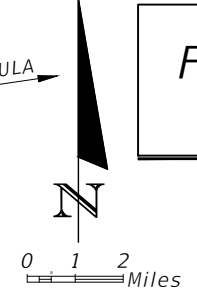
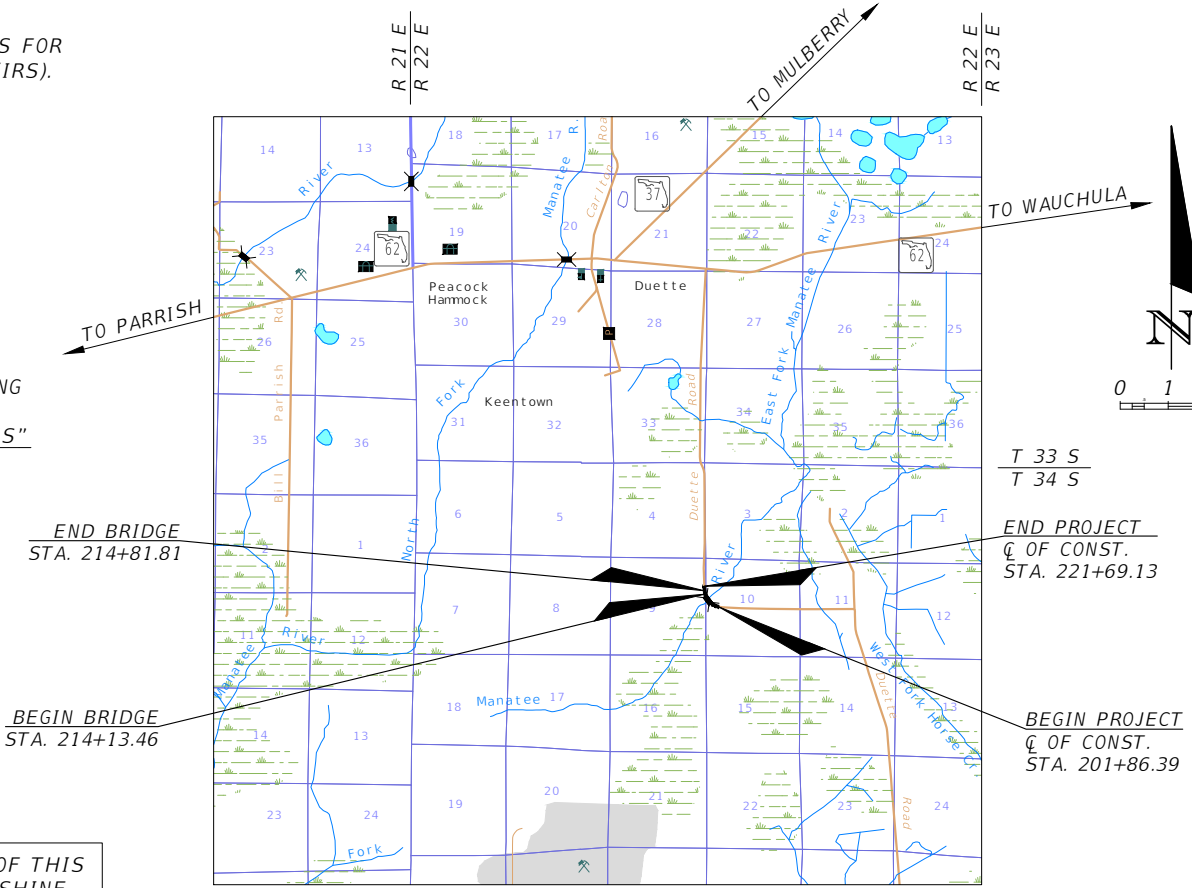
PLANS PREPARED BY:

STANTEC CONSULTING SERVICES, INC.
380 PARK PLACE BOULEVARD
SUITE 300
CLEARWATER, FLORIDA, 33759
(727)531-3505

ROADWAY PLANS
ENGINEER OF RECORD:
JASON Y.YAM, PE
P.E. NO.: 62449

MANATEE COUNTY PROJECT MANAGER:
MARCENEL JOSEPH, P.E.

REVISIONS	
DATE	DESCRIPTION



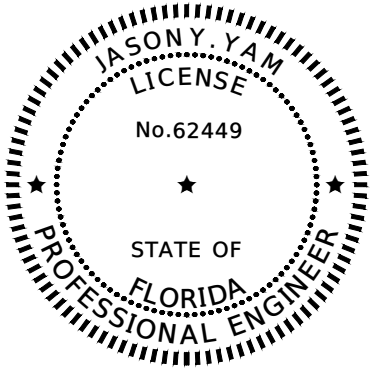
FINAL PLAN SET
MARCH 2025

INDEX OF ROADWAY PLANS

SHEET NO.	SHEET DESCRIPTION
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2	SIGNATURE SHEET
3	DRAINAGE MAP
4	SUMMARY OF PAY ITEMS
5	TYPICAL SECTION
6	SUMMARY OF DRAINAGE STRUCTURES
7	PROJECT LAYOUT
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SHEET
NO.
1

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



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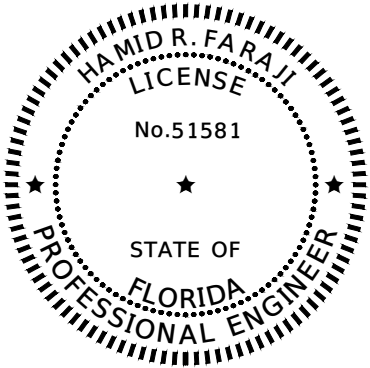
Jason Y Yam 2025.04.29
16:44:51-04'00'

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ON THE ELECTRONIC DOCUMENTS.

JASON Y. YAM, PE
STANTEC CONSULTING SERVICES, INC.
380 PARK PLACE BOULEVARD, SUITE 300
CLEARWATER, FL 33759
PHONE NUMBER: (727) 531-3505

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

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46 - 49	SIGNING AND PAVEMENT MARKING



THIS ITEM HAS BEEN DIGITALLY
SIGNED AND SEALED BY:

Hamid R Faraji 2025.04.29 14:02:39
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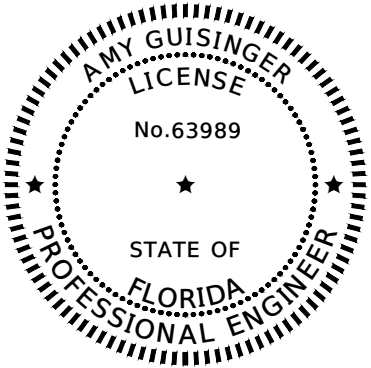
Digitally signed by Hamid R Faraji
Date: 2025.04.29 14:02:39 -05'00'

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THIS ITEM HAS BEEN DIGITALLY
SIGNED AND SEALED BY:



Amy Guisinger 2025.04.29 10:51:02
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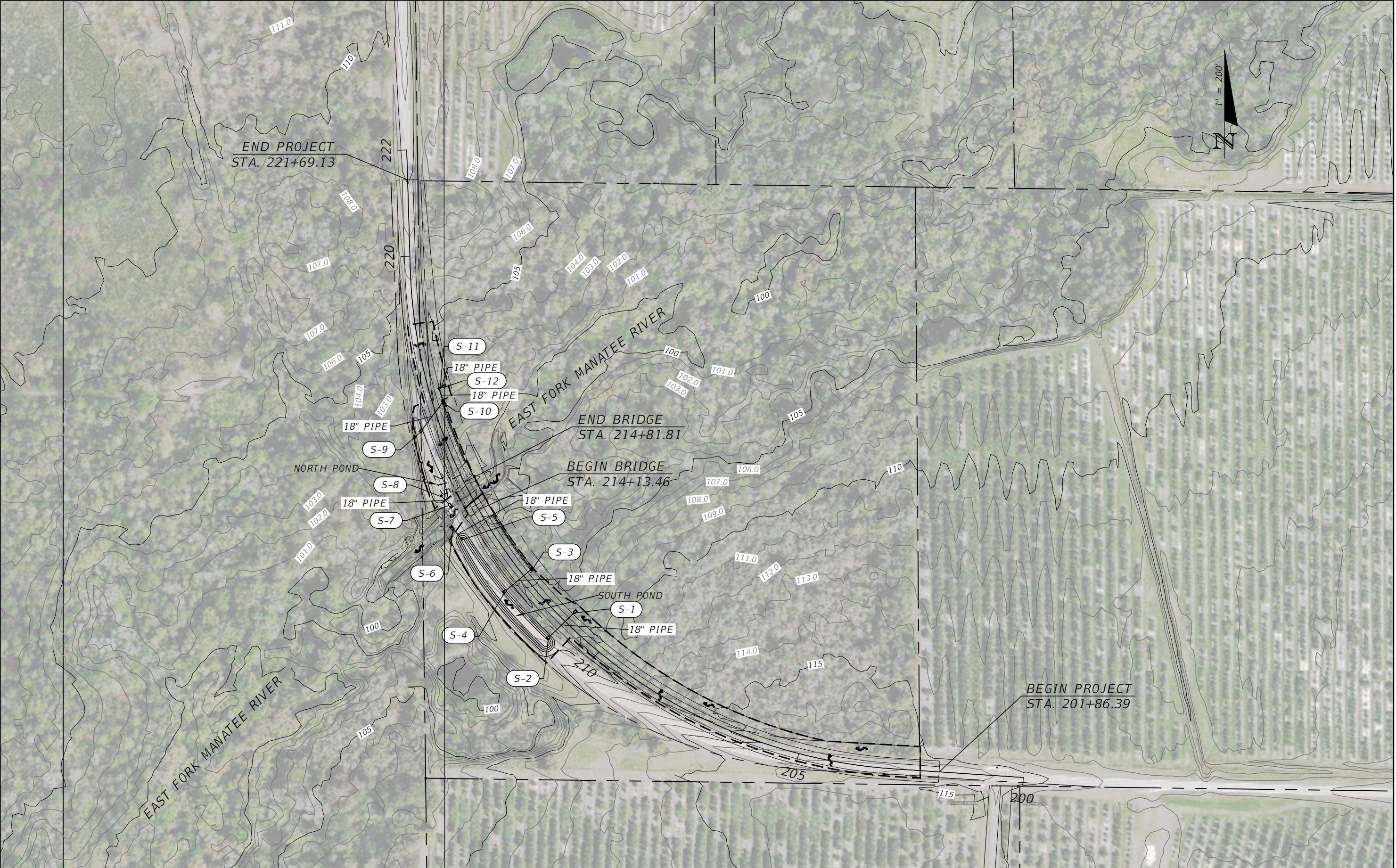
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ON THE ELECTRONIC DOCUMENTS.

AMY GUISINGER, PE
P.E. LICENSE 63989
TIERRA SOUTH FLORIDA, INC.
2765 VISTA PARKWAY SUITE H10
WEST PALM BEACH, FL 33411



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SHEETS IN ACCORDANCE WITH RULE 61G15-23.004, F.A.C.

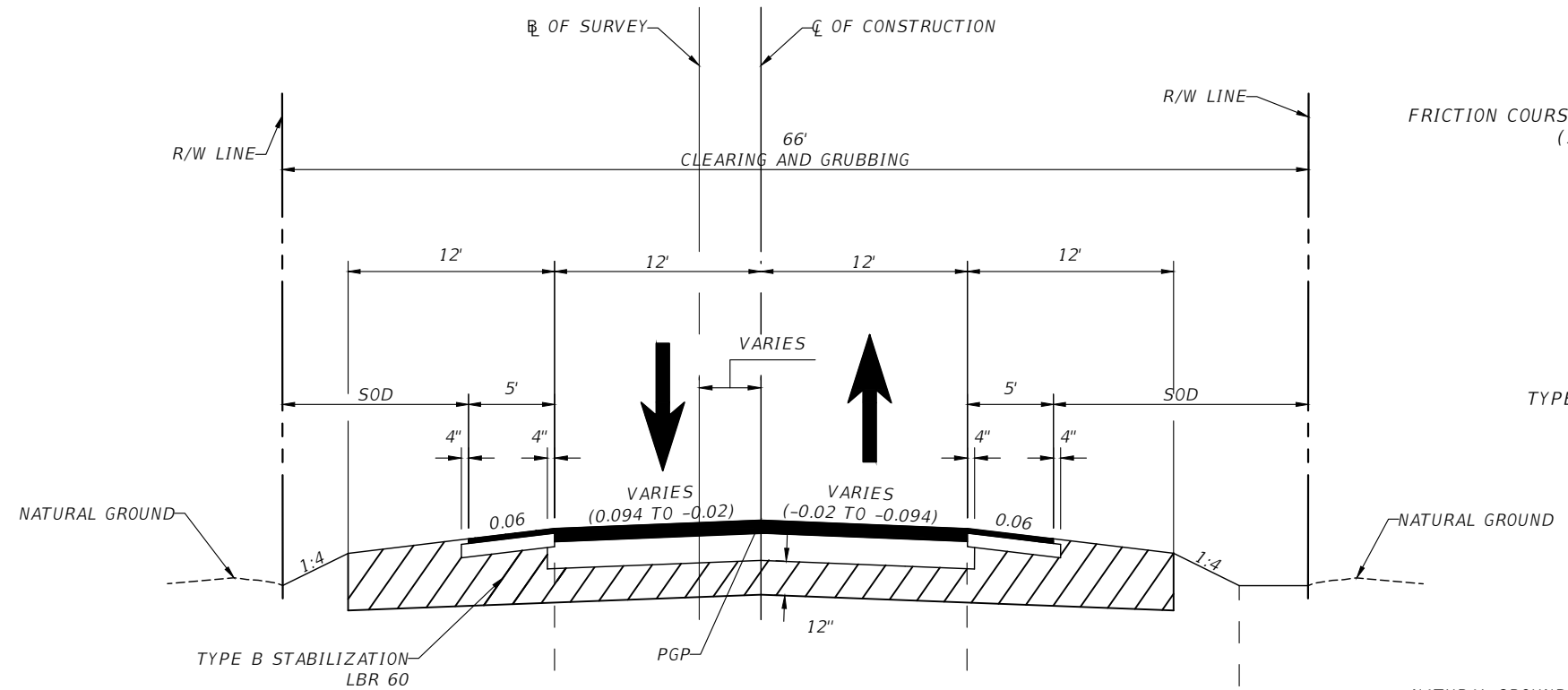
SHEET NO.	SHEET DESCRIPTION
2	SIGNATURE SHEET
16	SOIL SURVEY SHEET

REVISIONS				 STANTEC CONSULTING SERVICES, INC.	JASON Y. YAM, P.E. P.E. LICENSE NUMBER 62449 380 PARK PLACE BOULEVARD SUITE 300 CLEARWATER, FLORIDA, 33759 (727)531-3505	 MANATEE COUNTY PUBLIC WORKS COUNTY PROJECT NO: 6108260	DUETTE ROAD BRIDGE REPLACEMENT	SHEET NO.
NO.	DESCRIPTION	DATE	BY				SIGNATURE SHEET	2
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REVISIONS				 STANTEC CONSULTING SERVICES, INC.	HAMID FARAJI, P.E. LICENSE NUMBER 51581 380 PARK PLACE BOULEVARD SUITE 300 CLEARWATER, FLORIDA, 33759 (727) 531-3505	 MANATEE COUNTY PUBLIC WORKS COUNTY PROJECT NO: 6104760	DUETTE ROAD BRIDGE REPLACEMENT	SHEET NO.
NO.	DESCRIPTION	DATE	BY					3
							DRAINAGE MAP	



TYPICAL SECTION

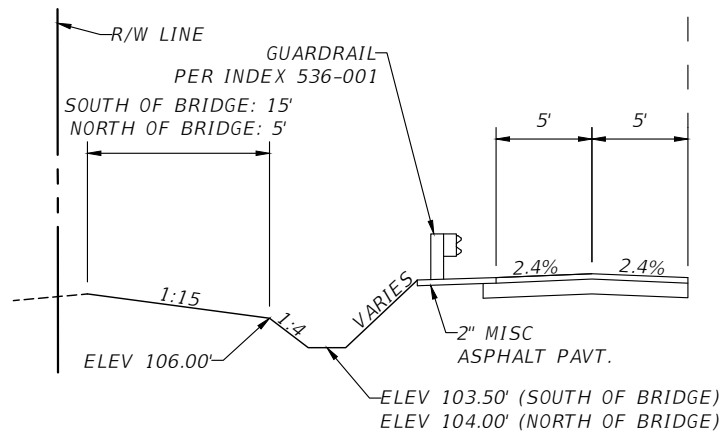
STA. 201+86.39 TO STA. 213+82.73
STA. 215+13.26 TO STA. 221+69.07

FRICTION COURSE FC-12.5 (TRAFFIC C)
(1 1/2") PG 76-22 (ARB)

TYPE SP STRUCTURAL COURSE
(TRAFFIC C) (2")
TYPE SP OVERBUILD
(TRAFFIC C) (1.5" AVG.)

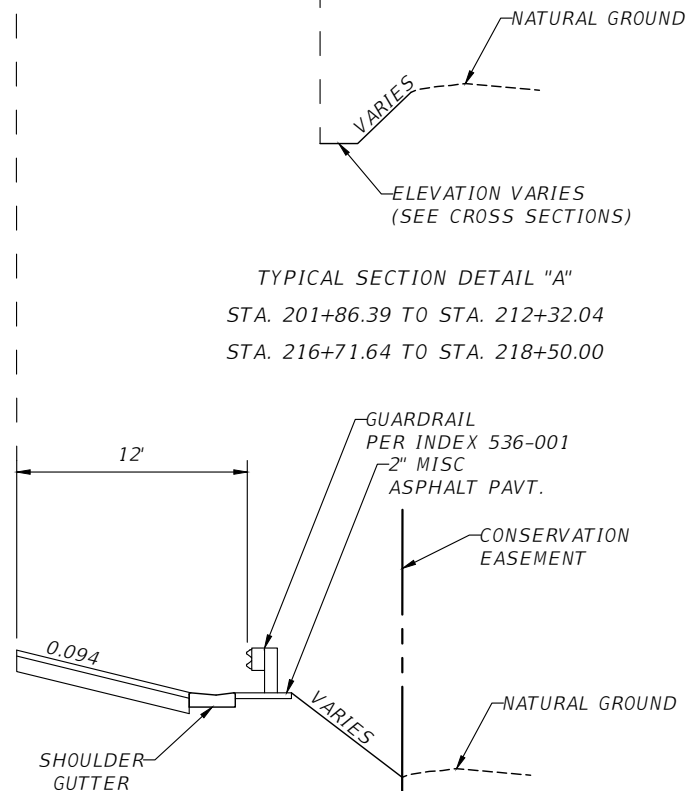
CROSS SLOPE CORRECTION OVERBUILD AND RESURFACING DETAIL

STA. 201+86.39 TO STA. 203+12.62
STB. 220+88.63 TO STA. 221+69.07



TYPICAL SECTION DETAIL "C"

STA. 212+32.04 TO STA. 213+82.73
STA. 215+13.26 TO STA. 216+61.66



TYPICAL SECTION DETAIL "B"

STA. 212+32.04 TO STA. 213+82.73
STA. 215+13.26 TO STA. 216+71.64

TRAVEL LANES

OPTIONAL BASE GROUP 9 WITH
TYPE SP STRUCTURAL COURSE (TRAFFIC LEVEL C) (2")
FRICTION COURSE FC-12.5 (TRAFFIC C) (1 1/2") PG 76-22

SHOULDER PAVEMENT

OPTIONAL BASE GROUP 1
FRICTION COURSE FC-12.5 (TRAFFIC C) (1 1/2") PG 76-22

TRAFFIC DATA

CURRENT YEAR = 2021 AADT = 1350
K = 9.5 D = 56.1 T = 36.0
DESIGN SPEED = 55 MPH

REVISIONS			
NO.	DESCRIPTION	DATE	BY



JASON Y. YAM, P.E.
P.E. LICENSE NUMBER 62449
380 PARK PLACE BOULEVARD
SUITE 300
CLEARWATER, FLORIDA, 33759
(727) 531-3505



MANATEE COUNTY
PUBLIC WORKS
COUNTY PROJECT NO:
6104760

DUETTE ROAD BRIDGE REPLACEMENT

TYPICAL SECTION

SHEET
NO.

5

QTY.	STRUCT. NO.	STATION	SIDE	DESCRIPTION	BARRELS	STORM SEWER PIPE	MANHOLES	DITCH BOTTOM INLET	GUTTER INLET	MITERED END SECTION	REMARKS
						ROUND	P-8	TYPE C	TYPE S	ROUND	
						18"	<10			1:4 18"	
P	S-1	210+99.14	RT	Mitered End Section, Pipe	1	75				1	
F											
P	S-2	211+00.97	LT	Mitered End Section	1					1	
F											
P	S-3	212+37.02	RT	Gutter Inlet, Pipe	1	72			1		
F											
P	S-4	212+35.56	LT	Mitered End Section	1					1	
F											
P	S-5	213+76.67	LT	Inlet, Pipe	1	29		1			POND OUTFALL STRUCTURE
F											
P	S-6	214+04.85	LT	Mitered End Section	1					1	
F											
P	S-7	214+52.99	LT	Mitered End Section	1					1	
F											
P	S-8	214+77.84	LT	Inlet, Pipe	1	24		1			POND OUTFALL STRUCTURE
F											
P	S-9	216+21.48	LT	Mitered End Section	1					1	
F											
P	S-10	216+66.03	RT	Gutter Inlet, Pipe	1	75			1		
F											
P	S-11	216+97.80	RT	Manhole, Pipe	1	28	1				
F											
P	S-12	216+99.56	RT	Mitered End Section	1	8				1	
F											
SHEET TOTALS				PLAN QUANTITY		311	1	2	2	7	
				FINAL QUANTITY							

REVISIONS			
NO.	DESCRIPTION	DATE	BY



Stantec
STANTEC CONSULTING SERVICES, INC.

HAMID FARAJI, P.E.
LICENSE NUMBER 51581
380 PARK PLACE BOULEVARD
SUITE 300
CLEARWATER, FLORIDA, 33759
(727) 531-3505



MANATEE COUNTY
PUBLIC WORKS
COUNTY PROJECT NO:
6104760

DUETTE ROAD BRIDGE REPLACEMENT

SUMMARY OF DRAINAGE
STUCTURES

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



VICINITY MAP

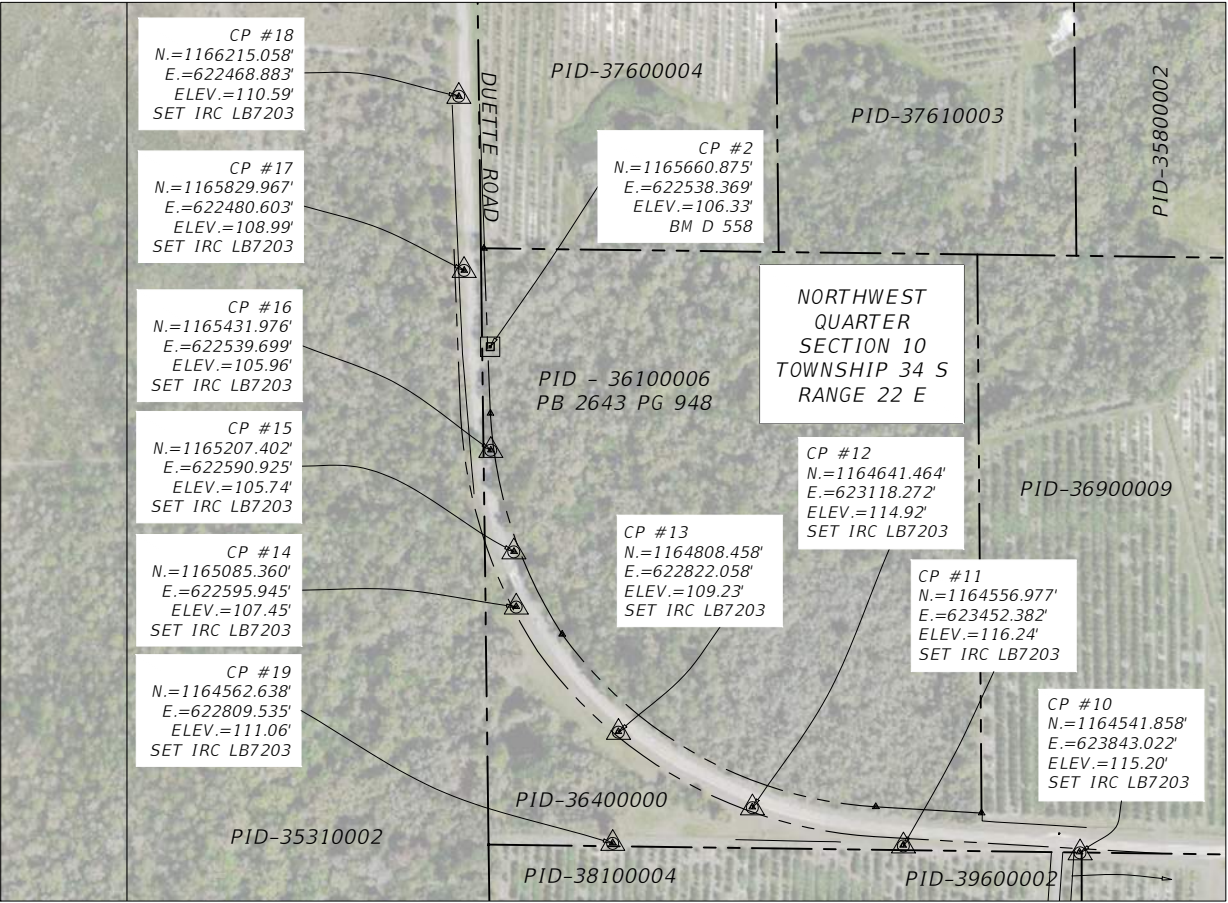
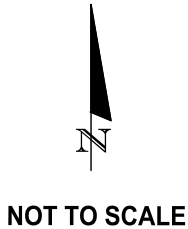
SURVEYOR NOTES

1. THE HORIZONTAL COORDINATES SHOWN HEREIN ARE REFERENCED TO A GRID PROJECTION OF THE STATE PLANE COORDINATE SYSTEM OF FLORIDA WEST ZONE (NAD 83/2011).
2. THE ELEVATIONS DEPICTED HEREON ARE RELATIVE TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (N.A.V.D. 88) BASED UPON THE FOLLOWING NATIONAL GEODETIC SURVEY BENCHMARKS:

"E 558" PID DE9084 (ELEVATION = 114.90')
"D 558" PID DE9085 (ELEVATION = 106.33')
3. THIS IS NOT A BOUNDARY SURVEY.
4. LOCATION OF THE RIGHT-OF-WAY LINES ARE THE RESULT OF FOUND BOUNDARY MONUMENTATION TOGETHER WITH AVAILABLE PUBLIC RECORD INFORMATION. TITLE WORK WAS NOT PROVIDED.
5. THIS SURVEY IS SUBJECT TO PERTINENT EASEMENT, RIGHTS OF WAY AND RESTRICTION OF RECORD, IF ANY.
6. THE LOCATION OF UTILITIES, FOUNDATIONS OR STRUCTURES, IF ANY, BENEATH THE SURFACE HAVE NOT BEEN DETERMINED.
7. THE JURISDICTIONAL LINES WERE DELINEATED AT TIME OF SURVEY AND ARE SHOWN.
8. THE PURPOSE OF THIS SURVEY IS TO SHOW TOPOGRAPHIC AND RIGHT OF WAY INFORMATION ON AND AROUND BRIDGE NUMBER 134030 DUETTE ROAD OVER THE EAST FORK OF THE MANATEE RIVER.
9. THIS SURVEY DRAWING WAS PREPARED FOR THE EXCLUSIVE USE OF THE PARTY OR PARTIES CERTIFIED TO BELOW FOR THE EXPRESS PURPOSE STATED HEREON AND/OR CONTAINED IN THE CONTRACT BETWEEN HYATT SURVEY SERVICES, INC AND THE CLIENT FOR THIS PROJECT. COPYING, DISTRIBUTING AND/OR USING THIS DRAWING, IN WHOLE OR IN PART FOR ANY PURPOSE OTHER THAN ORIGINALLY INTENDED WITHOUT WRITTEN CONSENT FROM HYATT SURVEY SERVICES, INC. IS STRICTLY PROHIBITED AND RENDERS THE SURVEYOR'S CERTIFICATION, SIGNATURE AND SEAL NULL AND VOID. ANY QUESTIONS CONCERNING THE CONTENT OR PURPOSE OF THIS DRAWING SHOULD BE DIRECTED TO HYATT SURVEY SERVICES, INC.



CERTIFICATION
I CERTIFY THAT THIS TOPOGRAPHIC SURVEY WAS MADE UNDER MY SUPERVISION, AND THAT THE SKETCH HEREON IS A TRUE AND ACCURATE REPRESENTATION OF THE SAME, AND THAT SAID SURVEY MEETS THE REQUIREMENTS OF CHAPTER 5J-17 OF THE FLORIDA ADMINISTRATIVE CODE PURSUANT TO FLORIDA STATUES CHAPTER 177, PART 11 AND 472.001-472.037 FOR THIS TYPE OF SURVEY.

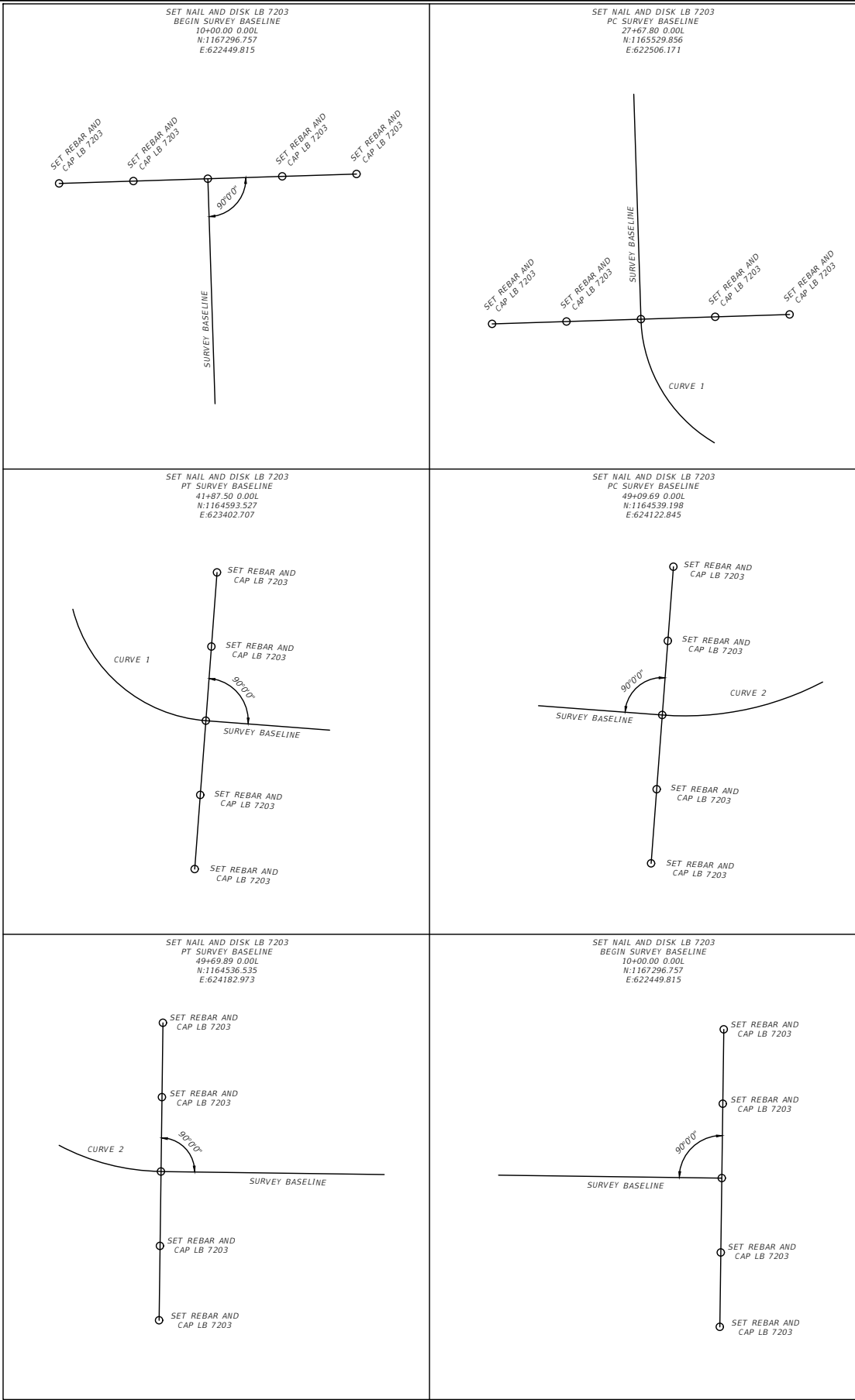
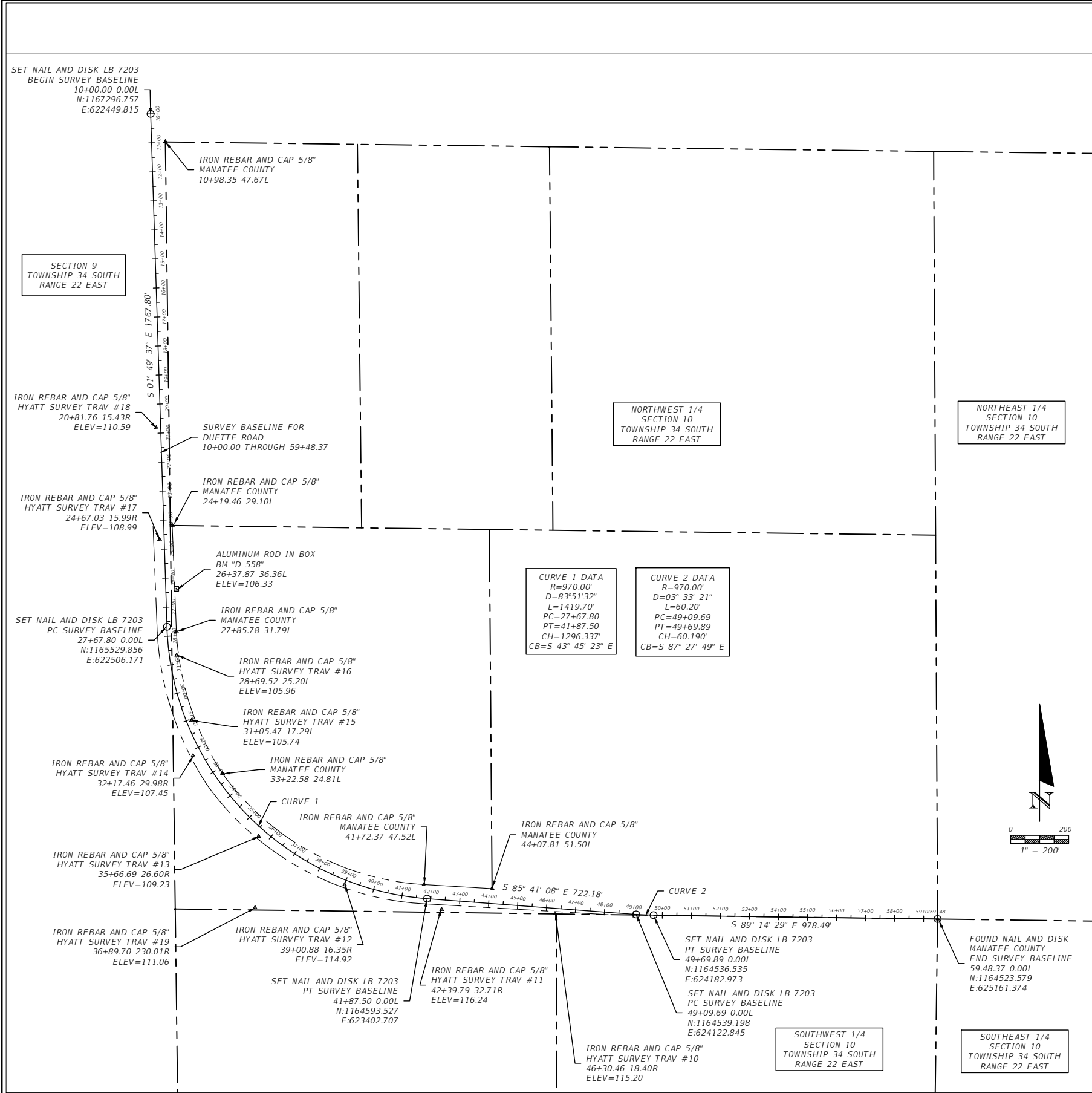
RUSSELL P. HYATT, P.S.M.
PROFESSIONAL SURVEYOR AND MAPPER
FLORIDA SURVEYORS REGISTRATION NO. 5303
THIS SURVEY NOT VALID WITHOUT THE ORIGINAL SIGNATURE AND RAISED SEAL
OR DIGITAL SIGNATURE OF A FLORIDA LICENSED SURVEYOR AND MAPPER



LEGEND

	IRC 5/8 Rod and Cap		Geotechnical Boring		WPB Wiring Pull Box		PCULV Pipe Culvert
	NL Nail, Spike, Pin (Control Mo)		MHD Manhole (Storm Water)		VCG Valve (Gas)		SSW Span Wire
	Found 5/8 Iron Rod and Cap		LP Street Light / Pole		VB ICV Valve Box Irrigation Control		CINL Inlets, Median or Curb
	PP Power Pole		PS Pedestrian Signal, Signage		SHLDR Shoulder Edge, Paved		AC Asphalt Pavement(Crown)A&C
	VLV ARV Air Release		Core Sample Hole		CSL Concrete Slabs		GI Gutter Inlets (Type S & V)
	DLP Delineator Post, Existing		MHS Manhole (Sanitary Sewer)		AP Asphalt Pavement (Edge)		CPVC Concrete Pavement (Crown)
	SSS Single Support Sign		SHP Shared Pole		MP Miscellaneous Pavement		GT Gates
	TPD Telephone Pedestal / Sevice		PPT Power Pole with Transformer		MES Mitered End Section		CPVJ Concrete Pavement (Joints)
	SSP Signal / Span Wire Pole		MW Meter (Water)		SWKB Sidewalk (Backs)		FNC Fence (generic)
	FH Fire Hydrant		SHPT Shared Pole (with Transformer)		CGB Curb and Gutter (Back)		CATV Cable Television (Buried)
	VCW Valve (Water)		SRVC Junct. Box / Service Cabinet		DWY Driveway (Drive,Lane,Turnout)		PWR Power Lines (Aerial)
	MHE Manhole (Electric)		BOL Bollard		SWK Sidewalk (Fronts)		GRL Guardrail Left
	GYA Guy Anchor		ME Electric Meter		SLP Slopes (Top, Bottom)		GRR Guardrail Right
	VLVB Valve (Back Flow Preventer)		WPB Pullbox		CB Catch Basins		BXC Box Culverts
	CMON Concrete Monument (Cast)		PIP Bent				Wetland
	Oak Tree		Wetland Jurisdictional Point				
	Pine Tree						
	Unknown Tree						

REVISIONS					JASON Y. YAM, P.E. P.E. LICENSE NUMBER 62449 380 PARK PLACE BOULEVARD SUITE 300 CLEARWATER, FLORIDA, 33759 (727)531-3505	 MANATEE COUNTY PUBLIC WORKS COUNTY PROJECT NO: 6104760	DUETTE ROAD BRIDGE REPLACEMENT	SHEET NO. 7
NO.	DESCRIPTION	DATE	BY				PROJECT LAYOUT	



REVISIONS			
NO.	DESCRIPTION	DATE	BY



JASON Y. YAM, P.E.
P.E. LICENSE NUMBER 62449
380 PARK PLACE BOULEVARD
SUITE 300
CLEARWATER, FLORIDA, 33759
(727)531-3505



DUETTE ROAD BRIDGE REPLACEMENT
PROJECT CONTROL

SHEET NO.
8

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

GENERAL NOTES

- ALL CONSTRUCTION ACTIVITIES SHALL BE COORDINATED WITH THE MANATEE COUNTY PROJECT MANAGEMENT DIVISION. THE PROJECT MANAGER IS: MARCENEL JOSEPH, P.E. AND CAN BE REACHED AT (941) 708-7450; EXT. 7329.
- SITE VISITS ARE MANDATORY FOR ALL BIDDERS. THESE SITE VISITS CAN BE ARRANGED THROUGH THE PROJECT MANAGER.
- VERTICAL CONTROL FOR THIS PROJECT WAS ESTABLISHED BY A MINIMUM OF TWO REFERENCE BENCHMARKS DESCRIBED ON THE "THE NORTH AMERICAN VERTICAL DATUM OF 1988", (NAVD '88). THE SURVEY IS REFERENCED TO A GRID PROJECTION OF THE FLORIDA STATE PLANE COORDINATE SYSTEM (WEST ZONE NAD 1983 / 2011 ADJUSTMENT).
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR MEETING ALL CONDITIONS AND REQUIREMENTS OF ALL PERMITS AND ALL GOVERNING FEDERAL, STATE, AND LOCAL AGENCIES. THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL REQUIRED PERMITS THAT ARE NOT PROVIDED IN THE BID DOCUMENTS, AT NO ADDITIONAL COST TO THE OWNER.
- THE INFORMATION PROVIDED IN THESE PLANS IS SOLELY TO ASSIST THE CONTRACTOR IN ASSESSING THE NATURE AND EXTENT OF THE CONDITIONS WHICH MAY BE ENCOUNTERED DURING THE COURSE OF WORK. ALL CONTRACTORS ARE DIRECTED, PRIOR TO BIDDING, TO CONDUCT WHATEVER INVESTIGATION THEY MAY DEEM NECESSARY TO ARRIVE AT THEIR OWN CONCLUSIONS REGARDING THE ACTUAL CONDITIONS THAT WILL BE ENCOUNTERED, AND UPON WHICH THEIR BIDS WILL BE BASED.
- THE CONTRACTOR SHALL REVIEW AND VERIFY ALL DIMENSIONS ON THE PLANS AND REVIEW ALL FIELD CONDITIONS THAT MAY AFFECT CONSTRUCTION. SHOULD DISCREPANCIES OCCUR, THE CONTRACTOR SHALL NOTIFY THE ENGINEER TO OBTAIN THE ENGINEER'S CLARIFICATION BEFORE COMMENCING WITH CONSTRUCTION.
- AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION, THE CONTRACTOR SHALL CONTACT SUNSHINE STATE ONE CALL OF FLORIDA AT 1-800-432-4770 OR THE NATIONAL 811 ONE CALL NUMBER WHEN APPLICABLE FOR UTILITY LOCATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH ALL UTILITIES FOR THE POSSIBLE RELOCATION OR THE TEMPORARY MOVEMENT OF ANY EXISTING UTILITIES WITHIN THE RIGHTS-OF-WAY.
- ALL STATIONS AND OFFSETS REFER TO A \mathbb{C} OF CONSTRUCTION UNLESS OTHERWISE NOTED.
- THE CONSTRUCTION LENGTHS IN THESE PLANS ARE APPROXIMATE. ACTUAL LIMITS MAY BE SET IN THE FIELD AS DIRECTED BY THE ENGINEER.
- SEPARATE PAYMENT SHALL BE MADE ONLY FOR THE ITEMS OF WORK LISTED AND IDENTIFIED BY APPROPRIATE PAY ITEM ON THE BID FORM. THE COST OF ANY RELATED WORK NOT SPECIFICALLY IDENTIFIED, BUT WHICH IS REQUIRED FOR SATISFACTORY COMPLETION OF THE WORK, SHALL BE CONSIDERED TO BE INCLUDED IN THE CONTRACT PRICE FOR THE APPROPRIATE BID ITEM.
- THE CONTRACTOR SHALL HAVE A FOREMAN, OR RESPONSIBLE PARTY, ON SITE AT ALL TIMES WHEN WORK IS BEING PERFORMED. ALL WORKERS ON THE JOB SITE WILL BE COURTEOUS TO THE PUBLIC AT ALL TIMES, AND SHALL REFER ANY QUESTIONS OR CONCERNS TO THE CONTRACTOR'S FOREMAN OR THE COUNTY INSPECTOR. THE FOREMAN SHALL SPEAK AND UNDERSTAND ENGLISH AND SHALL BE AVAILABLE AT ALL TIMES FOR TIMELY RESOLUTION OF PROJECT-RELATED ISSUES.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COMPLETE COORDINATION OF CONSTRUCTION SCHEDULING BETWEEN CONTRACTOR AND ALL UTILITY AGENCIES.

NOTE: THIS INCLUDED MEETING WITH UTILITY AGENCIES PRIOR TO THE PRE-CONSTRUCTION CONFERENCE TO ADJUST THEIR SCHEDULES TO COINCIDE WITH THE CONTRACTORS CONSTRUCTION SCHEDULE. (REFERENCE CONTRACT DOCUMENTS)

- ANY DAMAGE TO STATE, COUNTY, OR LOCAL ROADS CAUSED BY THE CONTRACTOR'S HAULING OR EXCAVATION EQUIPMENT SHALL BE REPAIRED BY THE CONTRACTOR TO THE SATISFACTION OF THE COUNTY PROJECT MANAGER. PAYMENT SHALL NOT BE MADE FOR THIS WORK.
- MONUMENTATION - HORIZONTAL CONTROL, BENCHMARKS, ETC. SET BY THE CONSULTANT, SHALL HAVE THEIR COMPANY IDENTIFICATION ON THE TAG, DISK OR CAP. AT THE COMPLETION OF THE PROJECT, SURVEY CONTROL, BENCHMARKS, PROPERTY CORNERS, ETC. LOST DUE TO CONSTRUCTION SHALL BE RESET.

SAFETY NOTES



- THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLIANCE WITH THE FLORIDA TRENCH SAFETY ACT, 90-96, LAWS OF FLORIDA EFFECTIVE OCTOBER 1, 1990 AND THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION EXCAVATION SAFETY STANDARDS, 29 CFR 1926.650, SUBPART P, AS AMENDED. THE CONTRACTOR SHALL INCLUDE IN THE TOTAL BID PRICE ALL COSTS FOR COMPLIANCE WITH THESE REGULATIONS.
- THE CONTRACTOR SHALL USE SHEET PILING, SHEETING, BRACING, ETC., AS REQUIRED IN ALL EXCAVATION AREAS AND CONFORM TO ALL OSHA REQUIREMENTS.
- THE CONTRACTOR SHALL USE ALL NECESSARY SAFETY PRECAUTIONS TO AVOID CONTACT WITH OVERHEAD AND UNDERGROUND UTILITIES, POWER LINES, ETC.
- THESE DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY. THIS EXCLUSION DOES NOT ALLEVIATE THE CONTRACTOR FROM PROVIDING A CONTINUOUS SAFE WORKSPACE.

ENVIRONMENTAL NOTES

- CONTRACTOR IS RESPONSIBLE FOR INSTALLATION OF ALL SEDIMENT AND EROSION CONTROL (SEC) DEVICES (E.G., BARRIERS, SEDIMENT TRAPS/BASINS, VEGETATIVE BUFFERS, ETC.) AS SPECIFIED IN THE FINAL APPROVED PLANS FOR THE PROJECT. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL SEC DEVICES UTILIZED DURING THE PROJECT, AS WELL AS INSTALLATION AND MAINTENANCE OF ANY ADDITIONAL MEASURES DEEMED NECESSARY DURING PROJECT IMPLEMENTATION, TO PREVENT EROSION AND OFF-SITE SEDIMENT MIGRATION. CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR REMOVAL AND PROPER DISPOSAL OF ALL SEC DEVICES UPON CONCLUSION OF THE PROJECT, AND UPON ADEQUATE STABILIZATION OF DISTURBED SOILS.
- THE CONTRACTOR SHALL PROVIDE AND INSTALL ALL NECESSARY STORM WATER, EROSION, AND SEDIMENTATION CONTROL MEASURES IN ACCORDANCE WITH THE FDEP "FLORIDA STORM WATER, EROSION AND SEDIMENTATION CONTROL INSPECTOR'S MANUAL". IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO CONTROL AND PREVENT EROSION AND TRANSPORT OF SEDIMENT TO SURFACE DRAINS AND TO DITCHES DURING CONSTRUCTION.
- STOCKPILES SHALL BE PROTECTED AT ALL TIMES BY ON-SITE DRAINAGE CONTROLS WHICH PREVENT EROSION OF THE STOCKPILED MATERIAL. CONTROL OF DUST FROM SUCH STOCKPILES IS REQUIRED, DEPENDING UPON THEIR LOCATION AND THE EXPECTED LENGTH OF TIME THE STOCKPILES WILL BE PRESENT. IN NO CASE SHALL ANY STOCKPILED MATERIAL REMAIN AFTER THIRTY (30) CALENDAR DAYS.
- STORM WATER INLETS IN THE VICINITY OF THE PROJECT SHALL BE PROTECTED BY SEDIMENT TRAPS SUCH AS SECURED HAY BALES, SOD, STONE, ETC., WHICH SHALL BE MAINTAINED AND MODIFIED AS REQUIRED BY CONSTRUCTION PROGRESS, AND WHICH MUST BE APPROVED BY THE ENGINEER BEFORE INSTALLATION. THIS WILL BE MAINTAINED TO PREVENT DEGRADATION OF THE WATERS OF THE COUNTY AND STATE.
- SEDIMENT BASINS AND TRAPS, PERIMETER BERMS, SEDIMENT BARRIERS, VEGETATIVE BUFFERS, AND OTHER MEASURES INTENDED TO TRAP SEDIMENT AND/OR PREVENT THE TRANSPORT OF SEDIMENT ONTO ADJACENT PROPERTIES, OR INTO EXISTING BODIES OF WATER, MUST BE INSTALLED, CONSTRUCTED, OR IN THE CASE OF VEGETATIVE BUFFERS, PROTECTED FROM DISTURBANCE, AS A FIRST STEP IN THE LAND ALTERATION PROCESS. SUCH SYSTEMS SHALL BE FULLY OPERATIVE BEFORE ANY OTHER DISTURBANCE OF THE SITE BEGINS. EARTHEN STRUCTURES INCLUDING BUT NOT LIMITED TO BERMS, EARTH FILTERS, DAMS OR DIKES SHALL BE STABILIZED AND PROTECTED FROM DRAINAGE DAMAGE OR EROSION WITHIN ONE (1) WEEK OF INSTALLATION.
- ALL SWALES, DITCHES, AND CHANNELS LEADING FROM THE SITE SHALL BE PROTECTED FROM SILTATION AND EROSION DURING CONSTRUCTION AND BE SODDED WITHIN THREE (3) DAYS OF EXCAVATION.
- SOIL DISPLACED BY CONSTRUCTION WILL BE REMOVED. EROSION CONTROL SHALL BE IMPLEMENTED IN AREAS WHICH ARE CONSIDERED ENVIRONMENTALLY SENSITIVE. EROSION CONTROL SYSTEMS SHALL BE REQUIRED FOR ALL WORK WITHIN JURISDICTIONAL AREAS. THESE SYSTEMS MAY INCLUDE STAKED HAY BALES, SILT SCREENS, FILTER FABRIC, AND TURBIDITY SCREENS.
- ALL EROSION AND POLLUTION CONTROL DEVICES SHALL BE CHECKED REGULARLY, ESPECIALLY AFTER EACH RAINFALL AND SHALL BE CLEANED OUT AND/OR REPAIRED AS REQUIRED.
- THE CONTRACTOR SHALL NOT ENTER UPON OR IN ANY WAY ALTER WETLAND AREAS THAT MAY BE ON OR NEAR THE CONSTRUCTION SITE. ALL WORK IN THE VICINITY OF OPEN WATER AND/OR WETLANDS IS TO BE PERFORMED IN COMPLIANCE WITH THE ENVIRONMENTAL REGULATIONS AND/OR PERMITS FOR THE SITE. THE CONTRACTOR WILL BE RESPONSIBLE FOR ANY FINES RESULTING FROM HIS VIOLATION OF ANY REGULATIONS OR PERMIT CONDITIONS.

RIGHT-OF-WAY NOTES

- ALL CONSTRUCTION ACTIVITIES SHALL BE LIMITED TO WITHIN THE MANATEE COUNTY/FDOT RIGHT-OF-WAY AND/OR EASEMENTS SHOWN ON THE DRAWINGS.
- THE CONTRACTOR SHALL EMPLOY A LAND SURVEYOR REGISTERED IN THE STATE OF FLORIDA TO REFERENCE AND RESTORE PROPERTY CORNER MONUMENTS, PINS, AND LANDMARKS THAT MAY BE DISTURBED BY CONSTRUCTION AT NO ADDITIONAL COST TO THE OWNER.
- THE CONTRACTOR, PRIOR TO CONSTRUCTION AND RESTRICTING ANY TRAFFIC, MUST OBTAIN A RIGHTS-OF-WAY USE PERMIT AND A TRAFFIC CONTROL PLAN. THE CONTRACTOR SHALL OBTAIN ALL REQUIRED PERMITS FROM OTHER GOVERNMENTAL AGENCIES HAVING RELEVANT JURISDICTION. ALL MAINTENANCE AND PROTECTION OF TRAFFIC SHALL BE IN ACCORDANCE WITH THE APPLICABLE REQUIREMENTS OF THE CURRENT FLORIDA DEPARTMENT OF TRANSPORTATION "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD). A TRAFFIC CONTROL PLAN SHALL BE SUPPLIED BY THE CONTRACTOR AT THE PRE-CONSTRUCTION MEETING.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING ALL DAMAGED STORM WATER STRUCTURES, PIPING, ENTRANCE PIPE AND HEADWALLS, THAT ARE TO REMAIN, WHETHER SHOWN ON THE PLANS OR NOT.
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ESTABLISH IN THE FIELD THE RIGHT-OF-WAY LINES, BASE LINES, BENCH MARKS (ELEV.), CENTER LINES, AND STATIONING AS REQUIRED TO CONSTRUCT THIS PROJECT.
- THE CONTRACTOR SHALL COORDINATE THE CUTTING OF DRIVEWAYS WITH THE PROPERTY OWNER PRIOR TO CUT. ALL DRIVEWAYS WILL BE IN PASSABLE CONDITION AT THE END OF THE WORK DAY AND FULLY RESTORED PER PLAN. THE CONTRACTOR SHALL COORDINATE WITH THE AFFECTED UTILITY COMPANY FOR THE ADJUSTMENT OF ANY EXISTING UTILITIES AND STRUCTURES IN ORDER TO MATCH THE PROPOSED ELEVATIONS AND ALIGNMENTS.
- A RIGHT OF ENTRY AGREEMENT SHALL BE OBTAINED BY THE PROJECT MANAGER FROM THE PROPERTY OWNER BEFORE ANY DRIVEWAY CONSTRUCTION WORK IS DONE OUTSIDE OF THE RIGHT-OF-WAY OR EASEMENT.

REVISIONS				 STANTEC CONSULTING SERVICES, INC.	JASON Y. YAM, P.E. P.E. LICENSE NUMBER 62449 380 PARK PLACE BOULEVARD SUITE 300 CLEARWATER, FLORIDA, 33759 (727)531-3505	 MANATEE COUNTY PUBLIC WORKS COUNTY PROJECT NO: 6104760	DUETTE ROAD BRIDGE REPLACEMENT	SHEET NO.
NO.	DESCRIPTION	DATE	BY				GENERAL NOTES (1)	9
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UTILITIES NOTES

35. LOCATIONS, ELEVATIONS AND DIMENSIONS OF EXISTING UTILITIES, STRUCTURES AND OTHER FEATURES ARE SHOWN TO THE BEST INFORMATION AVAILABLE AT THE TIME OF PREPARATION OF THESE PLANS BUT DO NOT PURPORT TO BE ABSOLUTELY CORRECT. THERE MAY BE OTHER IMPROVEMENTS, UTILITIES, ETC. WHICH ARE WITHIN THE PROJECT AREA AND WHICH HAVE NOT BEEN LOCATED OR IDENTIFIED, MAY NOT BE IN THE EXACT LOCATION SHOWN OR RELOCATED SINCE THE PREPARATION OF THESE PLANS. THE CONTRACTOR SHALL VERIFY, PRIOR TO CONSTRUCTION, THE LOCATIONS, ELEVATIONS AND DIMENSIONS OF ALL EXISTING UTILITIES STRUCTURES AND OTHER FEATURES (WHETHER OR NOT SHOWN ON THE PLANS) THAT MAY AFFECT HIS WORK. ALL EXISTING UTILITIES TO BE EXTENDED, CROSSED OR CONNECTION POINTS SHALL BE EXPOSED PRIOR TO CONSTRUCTION TO VERIFY LOCATION AND ELEVATION. ANY DISCREPANCIES OR CONFLICTS FOUND SHALL BE BROUGHT TO THE ENGINEER'S ATTENTION FOR RESOLUTION. UTILITIES DESIGNATED VV, VH, AND VVH ARE BASED ON LIMITED INVESTIGATION TECHNIQUES AND SHOULD BE CONSIDERED APPROXIMATE ONLY. THE VERIFIED LOCATIONS/ELEVATIONS APPLY ONLY AT THE POINTS SHOWN. INTERPOLATIONS BETWEEN THESE POINTS HAVE NOT BEEN VERIFIED.
36. THE CONTRACTOR SHALL PROTECT ALL EXISTING STRUCTURES, WATER AND SEWER LINES, STORM DRAINS, UTILITIES, DRIVEWAYS, SIDEWALKS, SIGNS, MAIL BOXES, FENCES, TREES, LANDSCAPING, AND ANY OTHER IMPROVEMENT OR FACILITY IN THE CONSTRUCTION AREA. THE CONTRACTOR SHALL REPAIR AND/OR REPLACE ANY DAMAGED ITEM DUE TO HIS CONSTRUCTION ACTIVITIES TO EQUAL OR BETTER THAN PRE-CONSTRUCTION CONDITIONS AT NO ADDITIONAL COST TO THE OWNER.
37. THE CONTRACTOR SHALL USE APPROPRIATE TECHNIQUES, AS APPROVED, RECOMMENDED OR OFFERED BY FLORIDA POWER AND LIGHT TO PREVENT UNDERMINING OF POWER POLES DURING CONSTRUCTION. IF HOLDING OF POWER POLES IS RECOMMENDED OR REQUIRED BY THE UTILITY, THE CONTRACTOR SHALL COORDINATE THIS ACTIVITY WITH THE UTILITY AND BEAR ALL RELATED COSTS.
38. EXCEPT WHERE THE PLANS AND SPECIFICATIONS PROVIDE THAT SUCH WORK SHALL BE PERFORMED UNDER THE CONTRACT FOR THIS PROJECT, ALL UTILITIES INTERFERING WITH CONSTRUCTION SHALL BE REMOVED, RELOCATED OR ADJUSTED BY THEIR OWNERS, AT THEIR EXPENSE. THE CONTRACTOR SHALL ARRANGE HIS SCHEDULE TO ALLOW UTILITY OWNERS TIME FOR THE NECESSARY RELOCATION AND ADJUSTMENT OF UTILITIES AND RELATED STRUCTURES.
39. A FLORIDA POWER AND LIGHT SPECIAL PROVISION IS THAT THE TYPE OF EQUIPMENT USED IN THE INSTALLATION OF MAST ARMS/FOUNDATIONS, OVERHEAD/CANTILEVER SIGNS/FOUNDATIONS, AND THE MOVEMENT/INSTALLATION OF STRAIN POLES SHALL MEET THE FOLLOWING REQUIREMENTS: 1) OVERHEAD LINES SHALL STAY IN PLACE BOTH VERTICALLY AND HORIZONTALLY 2) CONTRACTOR SHALL MEET ALL APPLICABLE OSHA REQUIREMENTS (SEPARATION SHALL FOLLOW FPL GUIDELINES). ANY COST ASSOCIATED WITH THIS TYPE OF EQUIPMENT REQUIRED FOR THIS INSTALLATION IS INCLUDED IN THE RELATED PAY ITEMS. PLEASE REFER TO THE SPECIAL CONDITIONS IN THE UTILITY WORK SCHEDULE AND UTILITY COORDINATION.
40. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH ALL UTILITY COMPANIES FOR THE RELOCATION AND ADJUSTMENT OF ALL UTILITIES, INCLUDING, ANY EXISTING POWER POLES AND/OR UTILITY CONDUITS WITHIN RIGHT-OF-WAY.
41. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE WITH THE APPROPRIATE PARTIES TO DETERMINE THE COUNTY'S FIBER COMMUNICATION NETWORK, KNOWN AS ATMS (COUNTY ISD, SCHOOL BOARD, AND TRAFFIC MANAGEMENT CENTER) IN THE AREA TO ACCOMMODATE ANY POTENTIAL CONFLICTS. AS-BUILT INFORMATION FOR EXISTING COMMUNICATION CONDUIT AND FIBER IS AVAILABLE FROM FRANK CONETTA, WITH UTILITY RECORDS (941-792-8811 EXT. 5027).
42. ALL POTABLE WATER, RECLAIMED WATER, SEWER VALVES, AND MANHOLES SHALL BE UP TO GRADE AND ACCESSIBLE BEFORE, DURING, AND AFTER THE PROJECT IS COMPLETE.



DRAINAGE AND GRADING NOTES

43. THE CONTRACTOR IS TO PROVIDE THE ENGINEER OF RECORD WITH REPRODUCIBLE RECORD DRAWINGS SHOWING ALL IMPROVEMENT LOCATIONS AND ELEVATIONS IN ACCORDANCE WITH LATEST MANATEE COUNTY TRANSPORTATION DEPARTMENT STANDARDS AND SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT (SWFWMD) STANDARDS. THE CONTRACTOR SHALL ALSO PROVIDE FIVE SETS OF PRINTS, SIGNED AND SEALED BY A PROFESSIONAL LAND SURVEYOR, OF THE RECORD DRAWINGS TO THE ENGINEER OF RECORD. THESE RECORD DRAWINGS SHALL BE CERTIFIED TO THE OWNER, APPROPRIATE GOVERNMENTAL AGENCIES. RECORD DRAWINGS SHALL SPECIFICALLY INCLUDE STORMWATER FACILITY LOCATIONS, INCLUDING TOP OF BANK, UNDERDRAIN AND CONTROL STRUCTURES, SHALL BE PERFORMED BY A REGISTERED LAND SURVEYOR AND REVIEWED BY THE ENGINEER OF RECORD PRIOR TO ACCEPTANCE AND PAYMENT. BENCH MARKS WITH THE ELEVATION CLEARLY AND PERMANENTLY MARKED ARE TO BE PLACED ON THE TOP OF ALL PROPOSED OUTFALL CONTROL STRUCTURES. RECORD DRAWINGS OF ALL MITIGATION AREAS INCLUDING ELEVATIONS, ZONES AND LIMITS SHALL BE PERFORMED BY A REGISTERED LAND SURVEYOR AND REVIEWED BY THE ENGINEER OF RECORD PRIOR TO ACCEPTANCE AND PAYMENT. THE RECORD DRAWINGS SHALL SPECIFICALLY INCLUDE THE SURFACE AREA OF STORMWATER FACILITY AREAS AT NORMAL WATER, TOP OF BANK AND ELEVATION (NWL25), AT HIGH WATER ELEVATION (HWL ALL MITIGATION AND/OR LITTORAL SHELF AREAS).
- 44 TO PREVENT SEDIMENTARY RUNOFF DURING CONSTRUCTION, STAKED HAY BALES, STAKED SILT SCREENS OR INLET DEBRIS CONTROL SCREENS ARE TO BE PLACED AT STORM INLETS, OUTFALL LOCATIONS AND ADJACENT PROPERTY LINES AS REQUIRED PRIOR TO ANY CONSTRUCTION ACTIVITIES. SEDIMENT AND EROSION CONTROL DEVICES SHALL BE INSTALLED AND THEN VERIFIED/INSPECTED BY MANATEE COUNTY INFRASTRUCTURE INSPECTIONS RESOURCES DIVISION (708-7450) PRIOR TO COMMENCEMENT OF CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING THE SEDIMENTATION BARRIERS IN A WORKING MANNER FOR THE DURATION OF CONSTRUCTION AND SHOULD BE CHECKED DAILY. SILTATION ACCUMULATIONS GREATER THAN THE LESSER OF 12 INCHES OR ONE-HALF OF THE DEPTH OF THE SEDIMENTATION BARRIER SHALL BE IMMEDIATELY REMOVED AND REPLACED IN UPLAND AREAS. IN ADDITION TO SPECIFIED EROSION CONTROL LOCATIONS, THE CONTRACTOR SHALL PERFORM DAILY SITE INSPECTIONS FOR POTENTIAL EROSION PROBLEMS. IF PROBLEMS OCCUR, THE CONTRACTOR IS RESPONSIBLE FOR INSTALLING APPROPRIATE EROSION CONTROL IMMEDIATELY. AN INSPECTION LOG SHALL BE MAINTAINED AND AVAILABLE ONSITE AT ALL TIMES. STORMWATER TREATMENT FACILITIES INCLUDING OUTFALL PER DETAIL ARE TO BE CONSTRUCTED EARLY IN SITE DEVELOPMENT, WITH NO OFF- SITE UNTREATED RUN-OFF OCCURRING DURING CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR REMOVING TEMPORARY EROSION CONTROL DEVICES FOLLOWING COMPLETION OF ALL CONSTRUCTION AND FINAL STABILIZATION.

45. ALL CONSTRUCTION IS TO BE STAKED IN THE FIELD BY OR UNDER THE SUPERVISION OF A FLORIDA REGISTERED LAND SURVEYOR.
46. ALL PIPE LENGTHS SHOWN ON PLAN VIEW ARE TO THE END OF THE MITERED END SECTION. REFER TO MITERED END SECTION DETAIL FOR LENGTH OF PIPE TO BE INCLUDED IN PRICE FOR MITERED END SECTION.
47. TOPOGRAPHIC AND PROPERTY SURVEYS GIVING LOT SIZE, GROUND ELEVATIONS, OBSTRUCTIONS ON SITE, LOCATIONS AND DEPTHS OF SEWERS, CONDUITS, PIPES, EXISTING STRUCTURES, CURBS, PAVEMENTS, TRACTS, AND SOIL BORING DATA GIVING THE NATURE OF GROUND AND SUBSURFACE CONDITIONS HAVE BEEN OBTAINED FROM RELIABLE SOURCES. THE ACCURACY OF THIS DATA IS NOT GUARANTEED, AND IS FURNISHED SOLELY AS AN ACCOMMODATION TO THE CONTRACTOR. USE OF THIS DATA SHALL BE MADE AT THE CONTRACTOR'S DISCRETION. NO ADDITIONAL COMPENSATION WILL BE GRANTED DUE TO THE CONTRACTOR'S LACK OF KNOWLEDGE OF SITE CONDITIONS. PRIOR TO BID SUBMISSION, THE CONTRACTOR SHALL CONDUCT ANY ADDITIONAL SURVEYS AND SOILS TESTS HE MAY DEEM NECESSARY TO VERIFY THE ACCURACY OF THE INFORMATION PROVIDED.
48. THE CONTRACTOR SHALL VERIFY TOPOGRAPHY AND SATISFY HIMSELF AS TO THE EXTENT OF FILL NECESSARY TO ACHIEVE FINISHED GRADE PRIOR TO AWARD OF CONTRACT. THERE SHALL BE NO CLAIM FOR EXTRAS NOTWITHSTANDING SITE PLAN REVISIONS PROMULGATED SUBSEQUENT TO AWARD OF CONTRACT.
49. ROADSIDE UNDERDRAIN SHOWN ON PLAN IS MINIMUM AND EXTENSION SHALL BE REQUIRED AS DETERMINED NECESSARY BY THE ENGINEER OF RECORD AND/OR MCPWD INSPECTION DEPARTMENT DURING THE COURSE OF CONSTRUCTION.
50. SUITABLE FILL MATERIAL FROM EXCAVATION SHALL BE UTILIZED FOR PROJECT FILL PER GRADING SPECIFICATIONS. UNSUITABLE MATERIAL SHALL BE PLACED IN OPEN AREAS ONLY AS DIRECTED BY THE PROJECT ENGINEER AND SOILS ENGINEER IN ACCORDANCE WITH FDOT INDEX 505.
51. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR ALL STRUCTURES PRIOR TO INSTALLATIONS.
52. REFER TO CONSTRUCTION TECHNICAL SPECIFICATIONS FOR COMPACTION REQUIREMENTS, GRASSING/SODDING REQUIREMENTS, AND PAVING CONSTRUCTION MATERIAL SPECIFICATIONS.
53. ALL FILL AREAS ARE TO BE CONSTRUCTED IN 12" MAXIMUM LIFTS.
54. ON SLOPES GREATER THAN 3:1, PEGGING OR PINNING OF SOD MAY BE REQUIRED.
55. STATION LOCATIONS AND OFFSETS FOR STORM DRAIN INLETS AND MANHOLES REFERENCE THE CENTER OF THE SPECIFIED STRUCTURE BOTTOM. STATION LOCATION IS CENTER OF STRUCTURE BOTTOM FOR JUNCTION BOXES, CENTER OF RISER FOR CURB INLETS. FOR PIPES WITH MITERED END SECTIONS, THE PROPOSED LENGTHS SHOWN ON THE PLANS INCLUDE THE LENGTH OF THE MITERED END SECTION. PAYMENT FOR PIPE SHALL NOT INCLUDE THE LENGTH OF THE MITERED END SECTION. AS SPECIFIED BY DIMENSION "F" SHOWN IN FDOT INDEX 272 AND 273. PAYMENT SHALL BE FROM INSIDE STRUCTURE WALL TO INSIDE STRUCTURE WALL. ANY EXTRA PIPE LENGTH LISTED SHALL BE CONSIDERED CONTINGENT.
56. ALL CURB INLET AND JUNCTION BOX STORMWATER STRUCTURES SHALL HAVE HEAVY DUTY RING AND COVER MANHOLE ACCESS. ALL DRAINAGE BOX DETAIL SHALL FOLLOW MANATEE COUNTY CURRENT STANDARD 202 UNLESS IT IS DESIGNATED IN THE PLAN. ALL DRAINAGE BOXES SHALL HAVE A WALL THICKNESS OF 6" MINIMUM.
57. DURING DEWATERING OPERATIONS, THE CONTRACTOR SHALL NOT DISCHARGE DIRECTLY TO RECEIVING WATERS, EXISTING CONVEYANCES TO RECEIVING WATERS, OR WETLAND SYSTEMS. TEMPORARY SEDIMENT BASINS, TRAPS, OR SILTATION REDUCTION DEVICES SHALL BE UTILIZED TO COLLECT THE DISCHARGE FROM DEWATERING ACTIVITIES TO ELIMINATE THE POTENTIAL FOR OFFSITE SEDIMENT TRANSPORT AND TO ENSURE THAT DIRECT DISCHARGE DOES NOT OCCUR.
58. ALL PROPOSED STORM DRAIN PIPES WILL BE REINFORCED CONCRETE (RCP) CLASS II UNLESS OTHERWISE SPECIFIED.

RESTORATION NOTES

59. ALL RESTORATION WORK PERFORMED THROUGHOUT THE PROJECT SHALL CONFORM TO EXISTING LINES AND GRADES UNLESS SHOWN OTHERWISE.
60. ALL DISTURBED GRASSED AREAS SHALL BE SODDED. THE TYPE OF SOD USED TO REPLACE OWNER MAINTAINED AREAS IN RIGHT-OF-WAY SHALL BE COORDINATED WITH THE PROPERTY OWNER. ALL EXISTING SHRUBS, TREES, PLANTINGS AND OTHER VEGETATION, OUTSIDE OF RIGHT-OF-WAY DISTURBED DURING CONSTRUCTION SHALL BE REPLACED WITH EQUIVALENT MATERIAL BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
61. CONCRETE DRIVEWAYS OR SIDEWALKS THAT ARE CUT SHALL BE RESTORED TO MATCH EXISTING ACCORDING TO THE CURRENT EDITIONS OF THE F.D.O.T. SPECIFICATIONS FOR ROAD AND BRIDGE DESIGN, SECTION 522, AND SECTION 310 OF THE F.D.O.T. DESIGN STANDARDS LATEST REVISION.
62. WHENEVER A PERMANENT ROADWAY SURFACE IS NOT PLACED IMMEDIATELY AFTER BACKFILLING AND COMPACTION OF THE NEWLY INSTALLED PIPE LINE IN AREAS WHERE TRAFFIC MUST PASS, THE CONTRACTOR SHALL INSTALL A TEMPORARY SURFACE CONSISTING OF NINE INCHES OF COMPACTED LIME ROCK BASE AND A COAT OF ASPHALT EMULSION. PERMANENT ROADWAY REPAIR SHALL BE PERFORMED A MAXIMUM OF TWENTY-ONE CALENDAR DAYS AFTER THE INITIAL OPEN CUTTING.
63. RESTORATION OF CURBS, DRIVEWAYS, SIDEWALKS, AND PLACEMENT OF SOD SHALL BE COMPLETED WITHIN FORTY-FIVE CALENDAR DAYS OF INITIAL DISTURBANCE, OR TWENTY-ONE CALENDAR DAYS OF SUBSTANTIAL COMPLETION, WHICHEVER OCCURS FIRST.

REVISIONS				<div><div>Stantec</div><div>STANTEC CONSULTING SERVICES, INC.</div></div>	<div>JASON Y. YAM, P.E. P.E. LICENSE NUMBER 62449 380 PARK PLACE BOULEVARD SUITE 300 CLEARWATER, FLORIDA, 33759 (727)531-3505</div>	<div><div>MANATEE COUNTY PUBLIC WORKS</div><div>COUNTY PROJECT NO: 6104760</div></div>	DUETTE Road Bridge Replacement	SHEET NO.
NO.	DESCRIPTION	DATE	BY				GENERAL NOTES (2)	10
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CONSTRUCTION NOTES

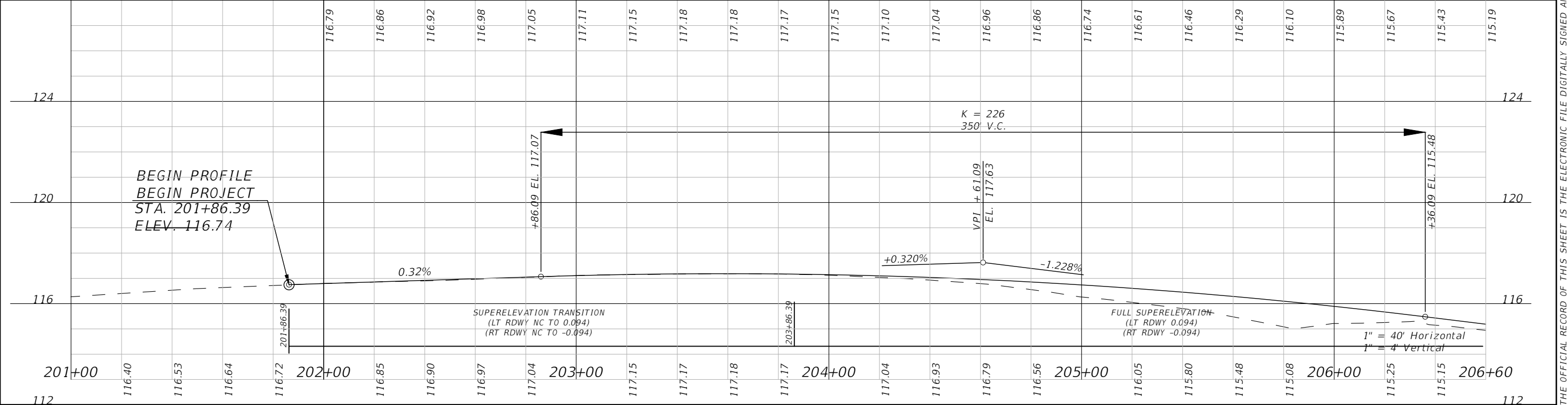
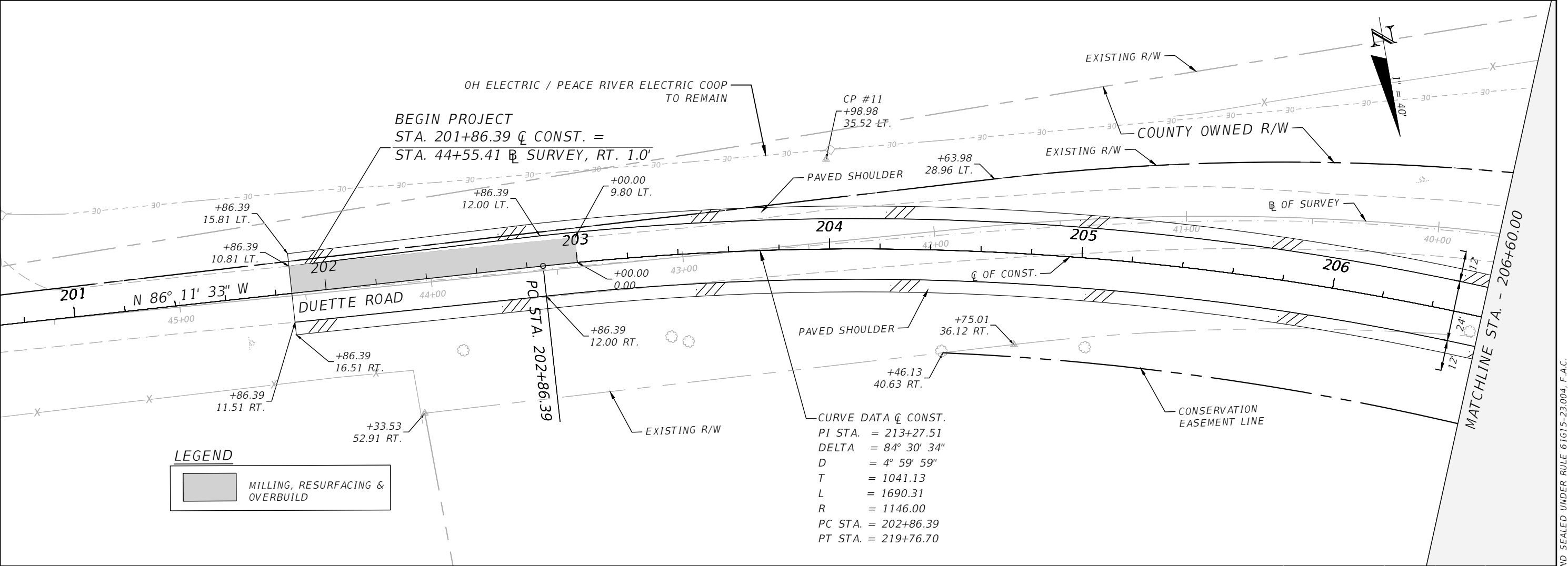
64. THE EXHAUST SYSTEM OF ALL GASOLINE AND DIESEL ENGINES SHALL BE EQUIPPED WITH MUFFLERS THAT MEET THE EQUIPMENT MANUFACTURER'S REQUIREMENTS FOR NOISE SUPPRESSION. THE CONTRACTOR SHALL INSTALL NOISE ABATEMENT BAFFELS POSITIONED TO BREAK LINE-OF-SITE FROM THE NOISE SOURCE TO AFFECTED RESIDENCES, AS APPROVED BY THE ENGINEER.
65. NO MATERIAL SHALL BE STOCKPILED IN ROADWAYS. ALL DIRT AND DEBRIS SHALL BE REMOVED FROM THE JOB SITE DAILY. ROADS SHALL BE SWEEPED DAILY AS PART OF DAILY CLEAN UP.
66. THE CONTRACTOR IS TO CONTROL ALL FUGITIVE DUST ORIGINATING ON THIS PROJECT BY WATERING OR OTHER METHODS AS REQUIRED.
67. INGRESS AND EGRESS TO ALL THE PROPERTIES IN THE CONSTRUCTION AREA SHALL BE MAINTAINED AT ALL TIMES.
68. THE CONTRACTOR SHALL PROVIDE ALL DEWATERING EQUIPMENT NECESSARY TO KEEP ALL EXCAVATIONS DRY. DEWATERING IS REQUIRED TO 18" BELOW TRENCH BOTTOM. THE CONTRACTOR SHALL SUBMIT DEWATERING PLAN TO SWFWMD FOR APPROVAL PRIOR TO CONSTRUCTION.
69. ALL PIPING AND FITTINGS USED ON THIS PROJECT SHALL BE AS NOTED ON THE PLANS AND IN THE CONTRACT DOCUMENT AND SHALL BE INSTALLED TO THE LINES AND GRADES SHOWN ON THE PLANS AND PROFILES.
70. ALL PIPE LENGTHS ARE PLUS OR MINUS AND MAY BE ADJUSTED IN THE FIELD AS REQUIRED. PIPE MEASUREMENTS AND STATION OFFSETS ARE TO CENTER OF STRUCTURES OR FITTINGS.
71. ALL ROCKS OR STONES LARGER THAN SIX INCH DIAMETER SHALL BE REMOVED FROM THE BACKFILL MATERIAL. BACKFILL MATERIAL PLACED WITHIN ONE FOOT OF PIPING AND APPURTENANCES SHALL NOT CONTAIN ANY STONES LARGER THAN TWO INCH DIAMETER.
72. ALL PENETRATION OF EXISTING STRUCTURES SHALL BE BY THE MECHANICAL ROTARY CORE BORING METHOD.
73. ALL CONCRETE AND REBAR PENETRATED OR DISTURBED SHALL BE COATED WITH TWO COATS OF EPOXY.
74. CONTRACTOR IS RESPONSIBLE FOR ALL UNSUITABLE MATERIAL REMOVAL IF FOUND WITHIN PROJECT LIMITS. EXCAVATION, EMBANKMENT, INCLUDING UTILIZATION, AND UNSUITABLE MATERIAL REMOVAL SHALL BE IN ACCORDANCE WITH FDOT DESIGN STANDARDS, LATEST VERSION. COST OF UNSUITABLE MATERIAL REMOVAL SHALL BE INCLUDED UNDER PAY ITEM 120-1, REGULAR EXCAVATION.
75. WHERE EXCAVATION IS REQUIRED FOR CONSTRUCTION OF SIDEWALK, ALL STUMPS, ROOTS, ETC. SHALL BE REMOVED COMPLETELY FROM THE SIDEWALK AREA. ALL STUMPS WITHIN THE PROJECT LIMITS SHALL BE REMOVED COMPLETELY AND REPLACED WITH COMPACTED BACKFILL BEFORE THE AREA IS FILLED. TREE ROOTS IN AREA OF PROPOSED SIDEWALK, RAMP, OR DRIVEWAY REPLACEMENT SHALL BE GROUND OUT TO A DEPTH OF 6" BELOW BOTTOM OF NEW SIDEWALK OR DRIVEWAY. ALL PRUNED ROOT DEBRIS SHALL BE REMOVED FROM THE SUB-BASE MATERIAL PRIOR TO POURING CONCRETE, ASPHALT, OR APPLICATION OF OTHER SPECIFIED MATERIALS. THIS WORK SHALL BE INCLUDED IN AND PAID FOR UNDER THE PAY ITEM FOR CLEARING AND GRUBBING.
76. ALL STUMPS, ROOTS, AND OTHER DEBRIS PROJECTING THROUGH OR APPEARING ON THE SURFACE OF THE GROUND SHALL BE REMOVED TO A DEPTH OF 1-FOOT BELOW THE COMPLETED SURFACE. THIS WORK SHALL BE INCLUDED IN AND PAID FOR UNDER THE PAY ITEM FOR CLEARING AND GRUBBING.
77. ALL MATERIALS NOT CLAIMED BY THE COUNTY SHALL BECOME PROPERTY OF THE CONTRACTOR, AND SHALL BE DISPOSED OF BY THE CONTRACTOR IN AREAS PROVIDED BY THE CONTRACTOR. THIS WORK SHALL BE INCLUDED IN AND PAID UNDER THE PAY ITEM CLEARING AND GRUBBING.
78. THE CONTRACTOR SHALL PROVIDE ALL SHEETING, SHORING, AND BRACING REQUIRED TO PROTECT ADJACENT STRUCTURES OR TO MINIMIZE TRENCH WIDTH. WHERE A SEPARATE PAY ITEM IS NOT PROVIDED, THE COST OF ALL SHEETING, SHORING, AND BRACING REQUIRED SHALL BE INCLUDED IN THE CONTRACT PRICE FOR THE ITEM OF WORK FOR WHICH SHEETING, SHORING, AND BRACING IS REQUIRED.
79. THE CONTRACTOR SHALL DISTURB NO MORE GROUND THAN WHAT IS NECESSARY FOR CONSTRUCTION. NO OPEN EXCAVATED TRENCH, OR OTHER UNSAFE CONDITION WILL BE LEFT OVERNIGHT. ALL WORK SITES WILL BE COMPLETELY RESTORED WITHIN SEVEN (7) CALENDAR DAYS OF THE CONCRETE POUR FOR SIDEWALK.THE INTENT OF THIS PROVISION IS TO "SAFE-UP" THE PROJECT SITE AS WORK PROGRESSES, AND SHALL INCLUDE REMOVING FORMS, FILLING HOLES, GRADING, AND REMOVAL OF DEBRIS.
80. ALL EXISTING SIGNS WITHIN THE PROJECT LIMITS SHALL REMAIN UNLESS OTHERWISE NOTED IN THE PLANS, OR AS DIRECTED BY THE ENGINEER.
81. ANY EXISTING SIGN TO REMAIN THAT IS DISTURBED OR RELOCATED DURING CONSTRUCTION SHALL BE RESET TO CURRENT STANDARDS FOR HEIGHT, OFFSET, AND METHOD OF INSTALLATION AT NO ADDITIONAL COST TO THE COUNTY.
82. ALL EXISTING SWALES NOT DESIGNATED FOR RECONSTRUCTION SHALL BE REGRADED TO PROMOTE POSITIVE DRAINAGE AND MATCH PROPOSED CENTERLINE SWALE ELEVATION AND ALIGNMENT.
83. ALL STORM DRAINS AND STRUCTURES TO REMAIN SHALL BE CLEANED OF DEBRIS, DIRT, VEGETATION AND OTHER MATERIAL. STORM SEWER INLETS SHALL BE MODIFIED (RAISED/LOWERED) TO MATCH PROPOSED FINISHED GRADE.



84. ALL EXISTING FENCES DISTURBED DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED AND REINSTALLED BY THE CONTRACTOR AT NO ADDITIONAL COST.
85. THE EXISTING STORM DRAINAGE STRUCTURES SHALL REMAIN, UNLESS OTHERWISE NOTED.
86. REMOVE AND REPLACE BASE AND SUB-BASE ACCORDING TO FDOT STANDARDS.
87. EXISTING TREES SHALL BE TRIMMED IF ADJACENT TO PROPOSED LIGHT POLES. THIS WORK SHALL BE INCLUDED IN AND PAID FOR UNDER THE PAY ITEM FOR CLEARING AND GRUBBING.
88. EXISTING VALVES AND MANHOLES WITHIN THE PROJECT LIMITS SHALL REMAIN OPERATIONAL DURING CONSTRUCTION AND ADJUSTED TO FINAL GRADE.

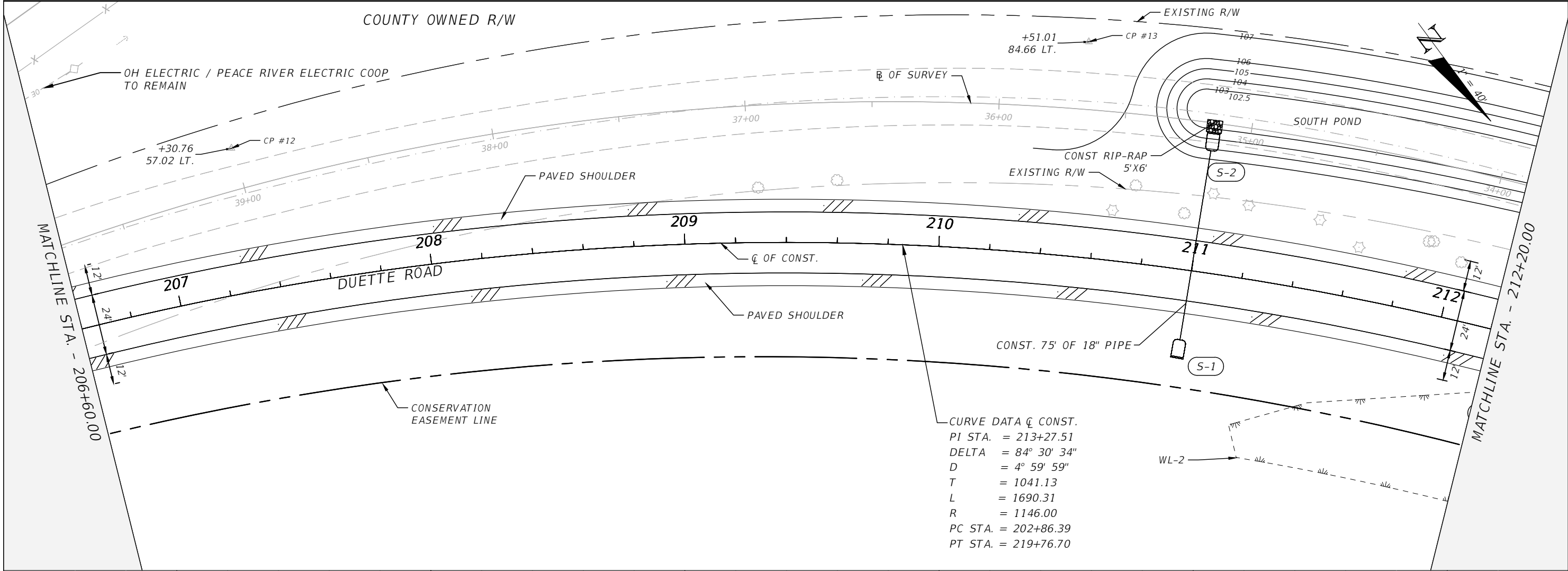
SIGNING AND PAVEMENT MARKING NOTES

89. ALL EXISTING SIGNAGE IS TO REMAIN UNLESS OTHERWISE NOTED IN PLANS.
90. ALL SIGN LOCATIONS AS SHOWN ARE APPROXIMATE AND MAY REQUIRE ADJUSTMENT AS DIRECTED BY THE ENGINEER.
91. ANY EXISTING SIGNS TO REMAIN THAT ARE DISTURBED DURING CONSTRUCTION OR RELOCATED SHALL BE RESET TO CURRENT STANDARDS FOR HEIGHT, OFFSET, AND METHOD OF INSTALLATION.
92. ALL EXISTING SIGNS SHALL BE CLEARED OF ALL VEGETATION WHICH IMPEDES VISIBILITY OF SIGN.
93. ANY NEW INSTALLATION OF PAVEMENT MARKINGS SHALL BE STANDARD THERMOPLASTIC UNLESS OTHERWISE NOTED.
94. REMOVAL OF EXISTING MARKINGS SHALL BE DONE BY HYDRO-BLASTING OR MICRO-GRINDING AS APPROVED BY THE ENGINEER.
95. ALL SIGNAGE AND STRIPING TO COMPLY WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).

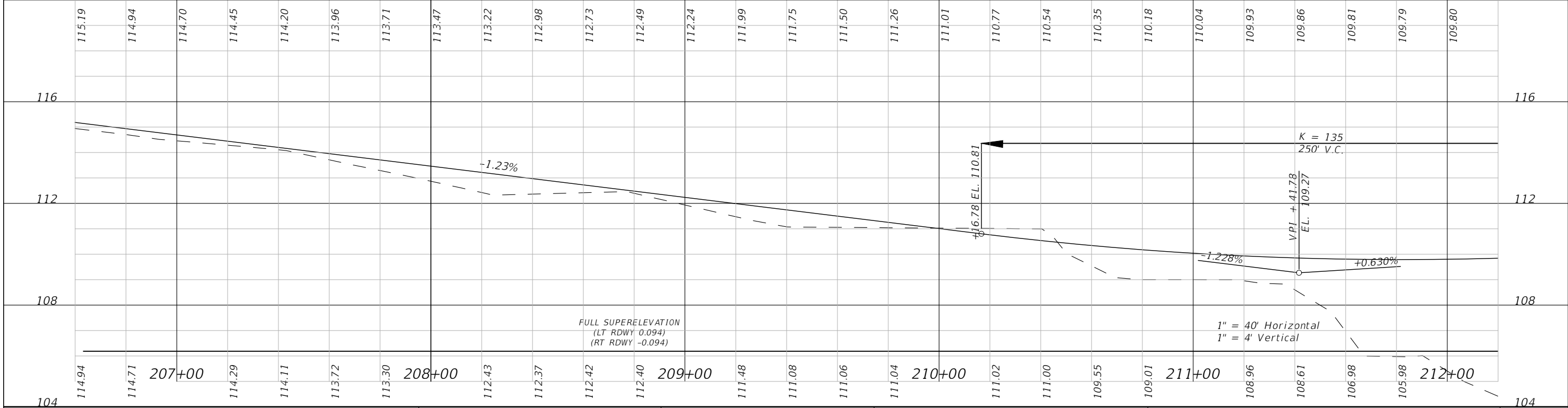
REVISIONS				 STANTEC CONSULTING SERVICES, INC.	JASON Y. YAM, P.E. P.E. LICENSE NUMBER 62449 380 PARK PLACE BOULEVARD SUITE 300 CLEARWATER, FLORIDA, 33759 (727)531-3505	 MANATEE COUNTY PUBLIC WORKS COUNTY PROJECT NO: 6104760	DUETTE ROAD BRIDGE REPLACEMENT	SHEET NO.
NO.	DESCRIPTION	DATE	BY				GENERAL NOTES (3)	11
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REVISIONS				 Stantec STANTEC CONSULTING SERVICES, INC.	 MANATEE COUNTY PUBLIC WORKS COUNTY PROJECT NO: 6104760	DUETTE ROAD BRIDGE REPLACEMENT		SHEET NO.
NO.	DESCRIPTION	DATE	BY			PLAN & PROFILE (1)		12



CURVE DATA CL CONST.
PI STA. = 213+27.51
DELTA = 84° 30' 34"
D = 4° 59' 59"
T = 1041.13
L = 1690.31
R = 1146.00
PC STA. = 202+86.39
PT STA. = 219+76.70



REVISIONS			
NO.	DESCRIPTION	DATE	BY



JASON Y. YAM, P.E.
P.E. LICENSE NUMBER 62449
380 PARK PLACE BOULEVARD
SUITE 300
CLEARWATER, FLORIDA, 33759
(727)531-3505

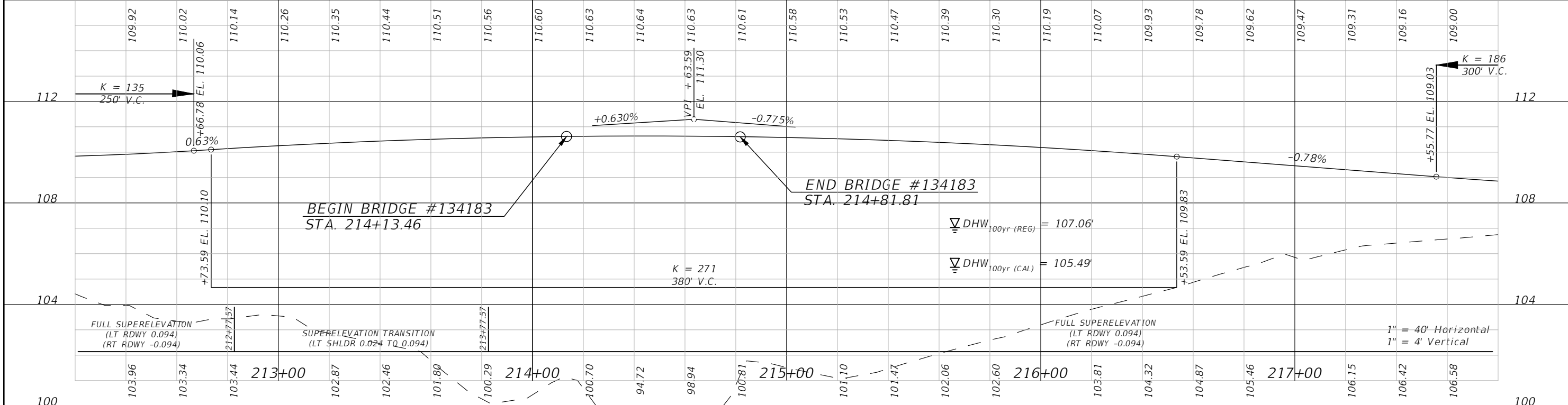
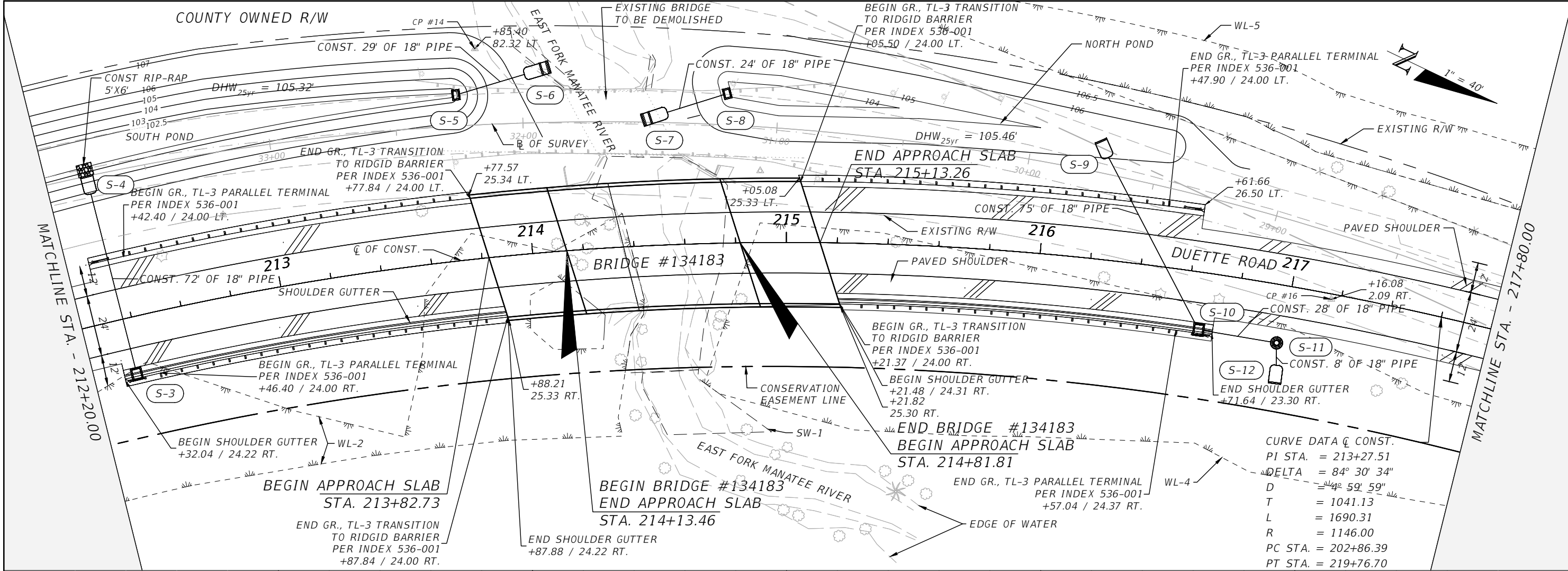




MANATEE COUNTY
PUBLIC WORKS
COUNTY PROJECT NO:
6104760

DUETTE ROAD BRIDGE REPLACEMENT
PLAN & PROFILE (2)

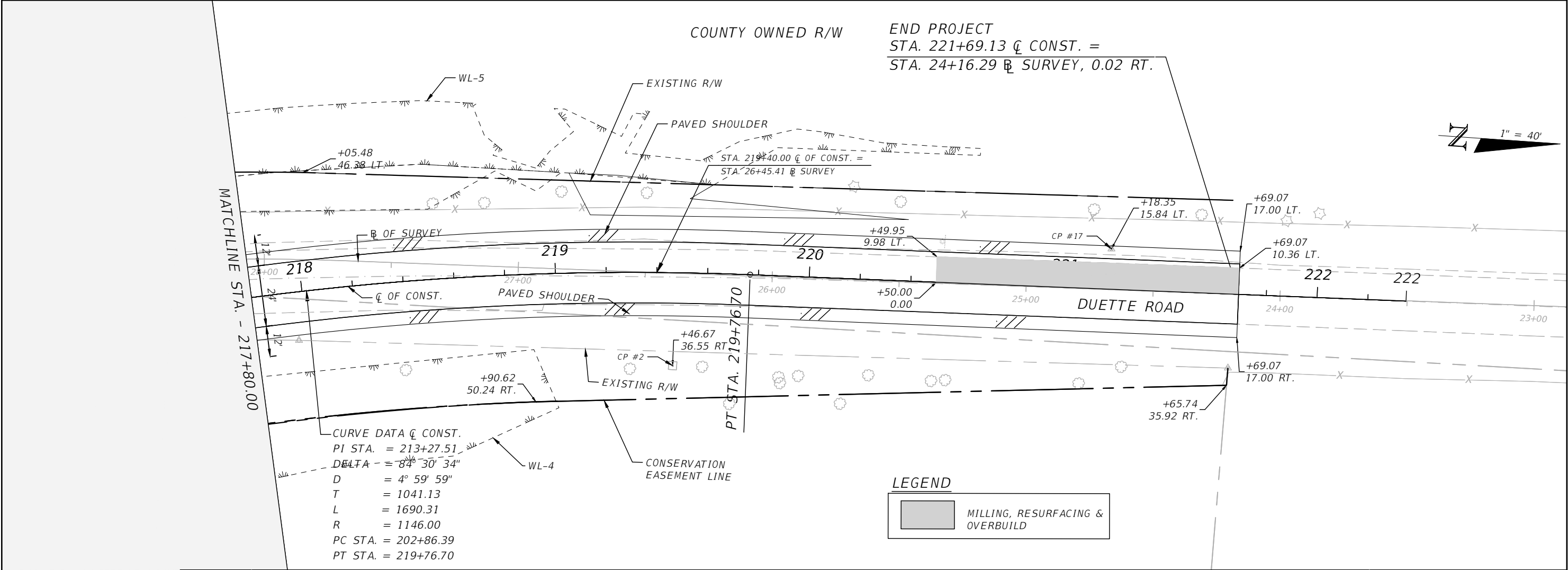
SHEET
NO.
13

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REVISIONS				 Stantec STANTEC CONSULTING SERVICES, INC.	 MANATEE COUNTY PUBLIC WORKS COUNTY PROJECT NO: 6104760	DUETTE ROAD BRIDGE REPLACEMENT		SHEET NO.
NO.	DESCRIPTION	DATE	BY			PLAN & PROFILE (3)		14

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MANATEE COUNTY
PUBLIC WORKS

DATE OF SURVEY: OCTOBER 2023
SURVEY MADE BY: TIERRA SOUTH FLORIDA, INC.
SUBMITTED BY: TIERRA SOUTH FLORIDA, INC.

DISTRICT: 1
ROAD NO.: DUETTE ROAD
COUNTY: MANATEE

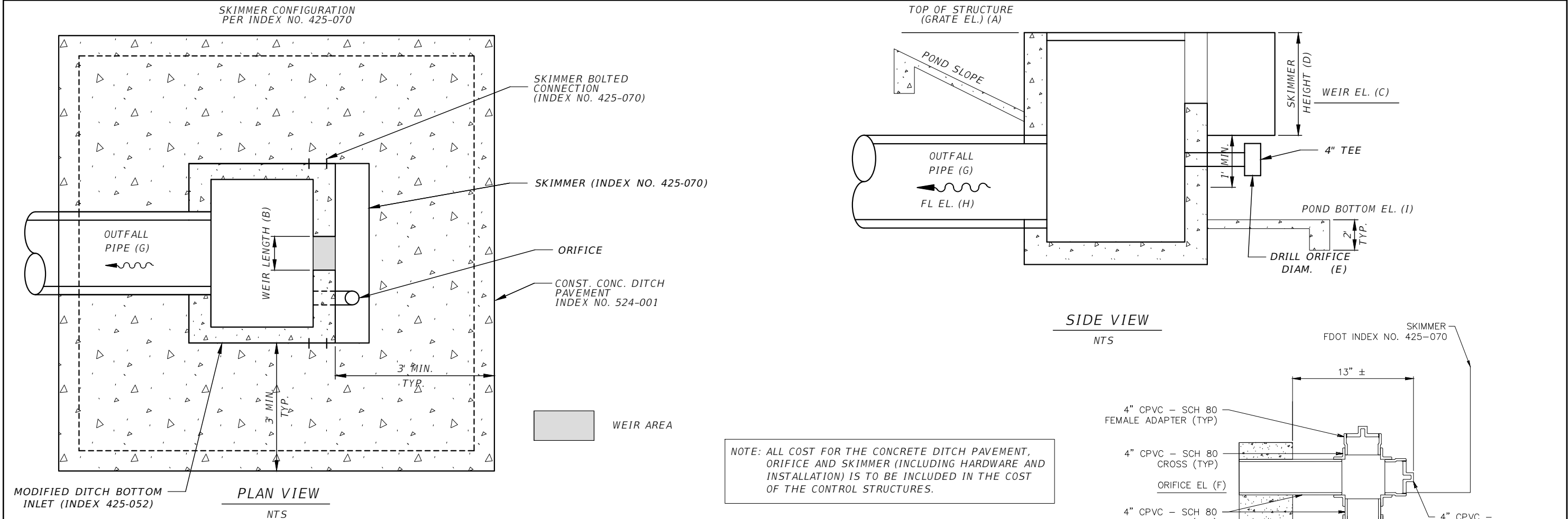
PROJECT NAME: DUETTE ROAD BRIDGE OVER EAST FORK MANATEE RIVER
COUNTY PROJECT NO.: TRI9005

CROSS SECTION SOIL SURVEY FOR THE DESIGN OF ROADS
SURVEY BEGINS STA.: TBD SURVEY ENDS STA.:TBD

STRATUM NO.	ORGANIC CONTENT		MOISTURE CONTENT		SIEVE ANALYSIS RESULTS % PASS						ATTERBERG LIMITS (%)				DESCRIPTION	CORROSION TEST RESULTS				
	NO. OF TESTS	% ORGANIC	NO. OF TESTS	% MOISTURE	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 ohms-cm	CHLORIDE ppm	SULFATES ppm	pH
1	-	-	7	13 - 58	7	98-100	89-97	58-74	23-39	1 - 7	-	-	-	A-3	BROWN SAND WITH TRACE SILT	-	-	-	-	-
															WATER	1	5100	10.000	9	7.5

EMBANKMENT AND SUBGRADE MATERIAL

1. STRATA BOUNDARIES ARE APPROXIMATE AND REPRESENT SOIL STRATA AT EACH BORING LOCATION ONLY. ANY SUBSOIL CONNECTING LINES SHOWN ARE FOR STIMATING EARTHWORK ONLY AND DO NOT INDICATE ACTUAL STRATUM LIMITS. SUBSURFACE VARIATIONS BETWEEN BORINGS SHOULD BE ANTICIPATED AS INDICATED IN STANDARD SPECIFICATIOBS SECTION 2-4. FOR FURTHER DETAILS SEE SECTION 120-3.
2. GROUNDWATER LEVEL SHOWN AS (∇) WHERE ENCOUNTERED. GROUNDWATER NOT ENCOUNTERED SHOWN AS "GNE". ESTIMATED SEASONAL HIGH GROUNDWATER LEVEL SHOWN AS (▼) IF STIMATED AT OR ABOVE THE BOTTOM OF BORING PROFILE.
3. REMOVAL OF MUCK AND PLASTIC MATERIAL OCCURRING WITHIN ROADWAY SHALL BE ACCOMPLISHED IN ACCORDANCE WITH STANDARD PLANS INDEX 120-002, UNLESS OTHERWISE SHOWN ON THE PLANS. THE MATERIAL UTILIZED IN EMBANKMENT CONSTRUCTION SHALL BE IN ACCORDANCE WITH STANDARD PLANS INDEX 120-001.
4. SOIL ANALYSIS INCLUDES DATA FROM ROADWAY AREAS AS NOTED IN LIMITS ABOVE.
5. THE SYMBOL "-" REPRESENTS AN UNMEASURED PARAMETER, NP DENOTES NON PLASTIC.
6. STRATUM 1 CONSISTS OF SAND WITH TRACE SILT (A-3). THIS MATERIAL IS SUITABLE TO USE IN SUBGRADE AND EMBANKMENT AND SHOULD BE UTILIZED ACCORDING TO STANDARD PLANS INDEX 120-001.



NOTE: ALL COST FOR THE CONCRETE DITCH PAVEMENT, ORIFICE AND SKIMMER (INCLUDING HARDWARE AND INSTALLATION) IS TO BE INCLUDED IN THE COST OF THE CONTROL STRUCTURES.

Structure Details											
STR. NO.	POND	BDI TYPE	TOP EL. (A)	WEIR		SKIMMER	ORIFICE		OUTFALL PIPE		POND BOTTOM (I)
				LENGTH (IN.)(B)	EL. (C)		DIA. (IN.)(E)	EL. (F)	DIA. (IN.)(G)	FL (H)	
S-5	SOUTH	C	105.40	6	104.15	20	0.71	103.50	18"	100.00	102.50
S-8	NORTH	C	105.40	6	104.70	15	0.48	103.50	18"	100.00	102.50

- (S-1)**
STA 210+99.14 (29.81 RT.)
CONST. MES 1:4
INDEX NO. 430-021
FL 103.50 SW

(S-2)
STA 211+01.08 (50.09 LT.)
CONST. MES 1:4
INDEX NO. 430-021
FL 105.20 NE
- (S-3)**
STA 212+37.02 (22.29 RT.)
CONST. GI TYPE S
INDEX NO. 425-041
GRATE EL 107.71
FL 104.00 SW

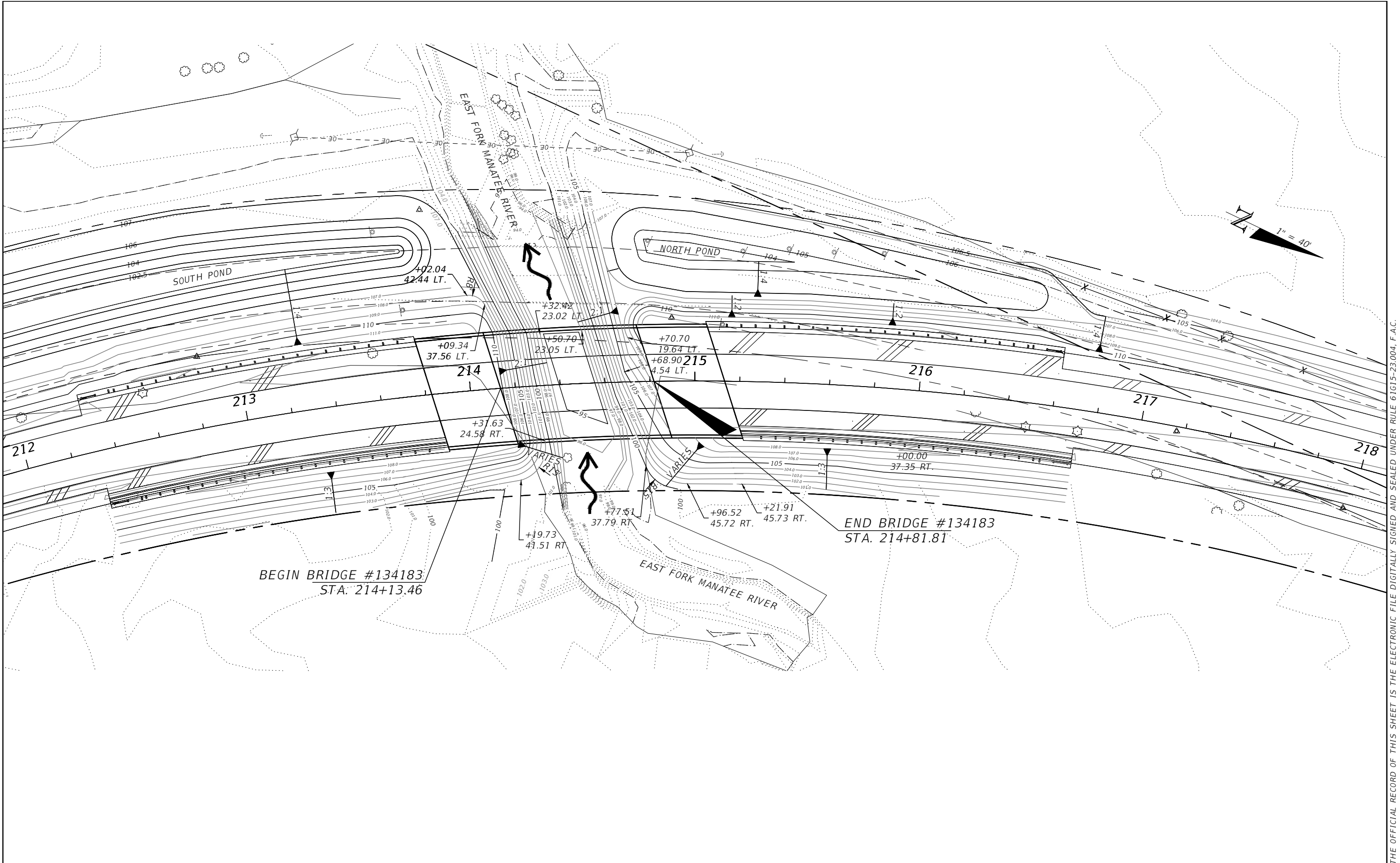
(S-4)
STA 212+35.56 (53.08 LT.)
CONST. MES 1:4
INDEX NO. 430-021
FL 103.50 NE
- (S-5)**
STA 213+76.67 (65.01 LT.)
CONST. DBI TYPE C
INDEX NO. 425-052
GRATE EL 105.40
FL 100.00 NW
SEE DETAIL

(S-6)
STA 214+04.85 (70.93 LT.)
CONST. MES 1:4
INDEX NO. 430-021
FL 99.50 SE
- (S-7)**
STA 214+52.99 (51.48 LT.)
CONST. MES 1:4
INDEX NO. 430-021
FL 99.80 NW



(S-8)
STA 214+77.84 (58.74 LT.)
CONST. DBI TYPE C
INDEX NO. 425-052
GRATE EL 105.40
FL 100.00 SE
SEE DETAIL
- (S-9)**
STA 216+21.48 (42.15 LT.)
CONST. MES 1:4
INDEX NO. 430-021
FL 104.00 NE

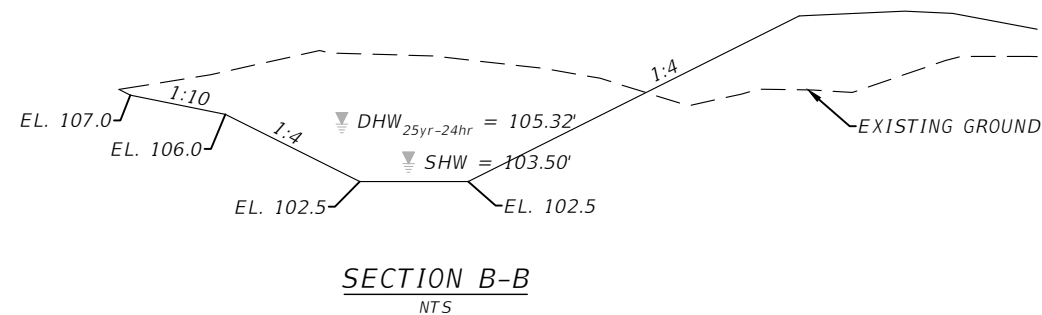
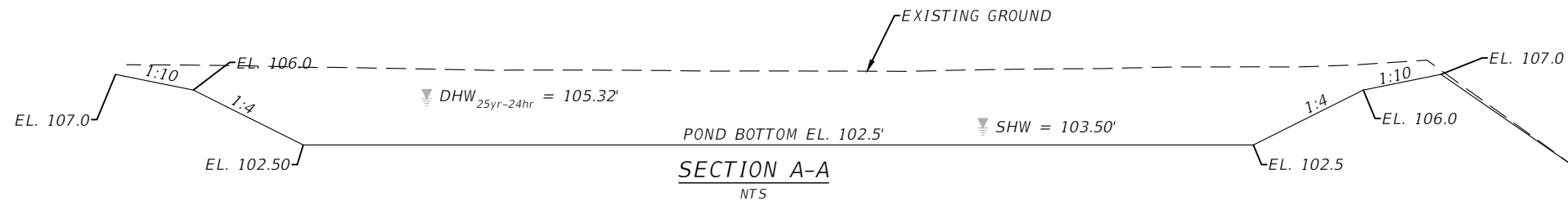
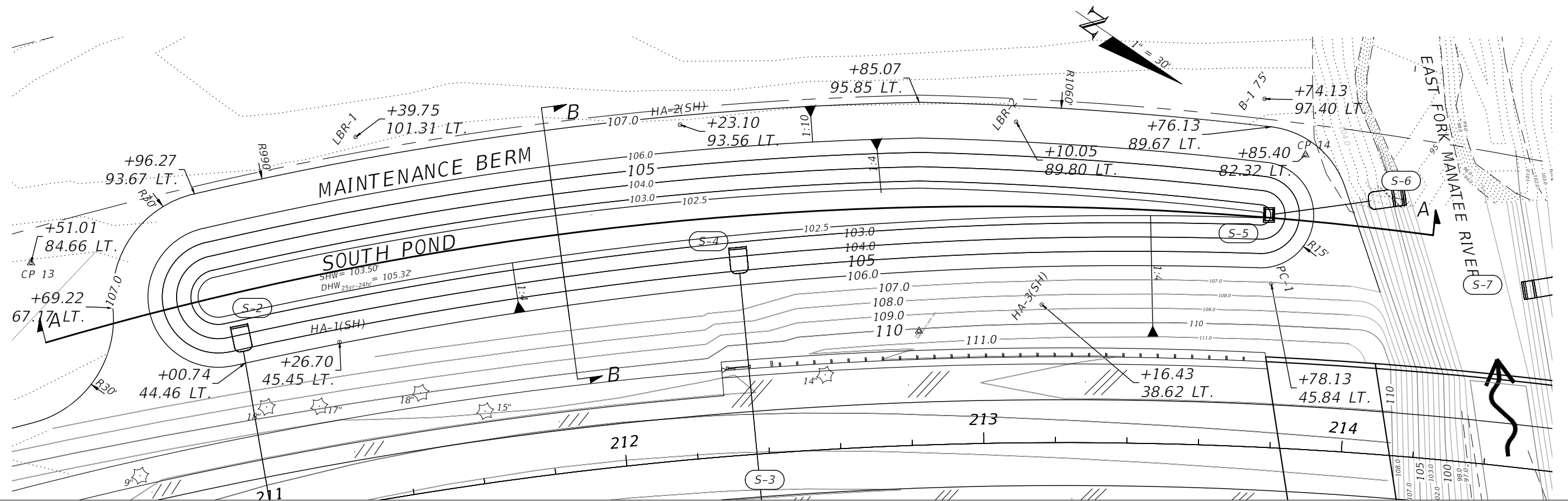
(S-10)
STA 216+66.03 (22.57 RT.)
CONST. GI TYPE S
INDEX NO. 425-041
GRATE EL 107.85
FL 104.20 SW
FL 104.20 N
- (S-11)**
STA 216+97.80 (22.84 RT.)
CONST. MH TYPE P8
INDEX NO. 425-001, 425-010
RIM EL 106.40
FL 104.25 S
FL 104.28 NE

(S-12)
STA 216+99.56 (33.78 RT.)
CONST. MES 1:4
INDEX NO. 430-021
FL 104.30 SW



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NO.	DESCRIPTION	DATE	BY			<i>GRADING DETAIL SHEET</i>		18



REVISIONS			
NO.	DESCRIPTION	DATE	BY



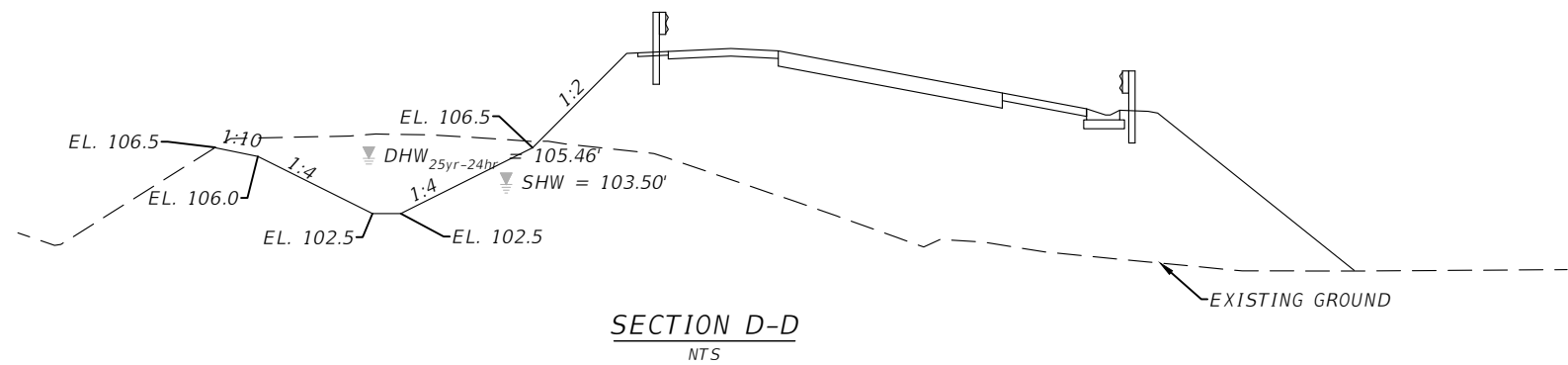
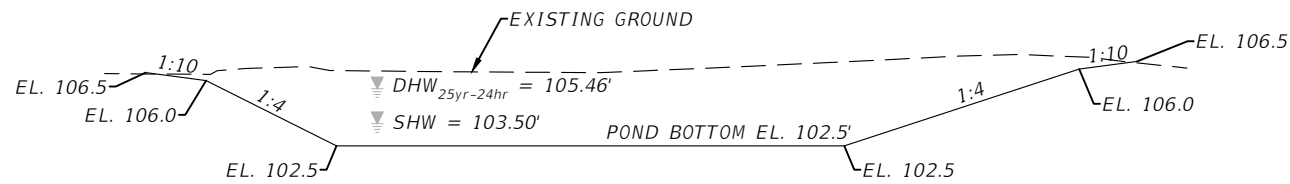
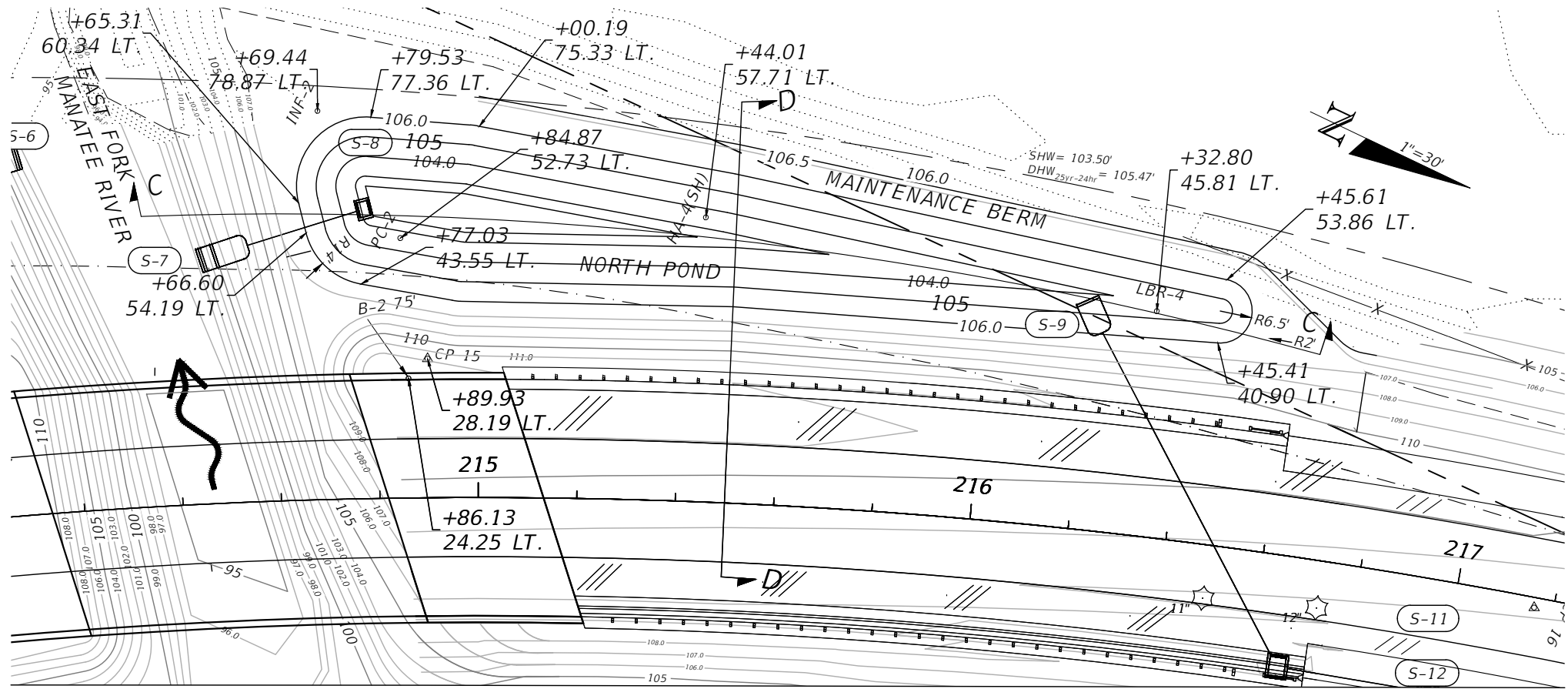
HAMID R. FARAJI, P.E.
P.E. LICENSE NUMBER 51581
380 PARK PLACE BOULEVARD
SUITE 300
CLEARWATER, FLORIDA, 33759
(727) 531-3505


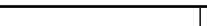


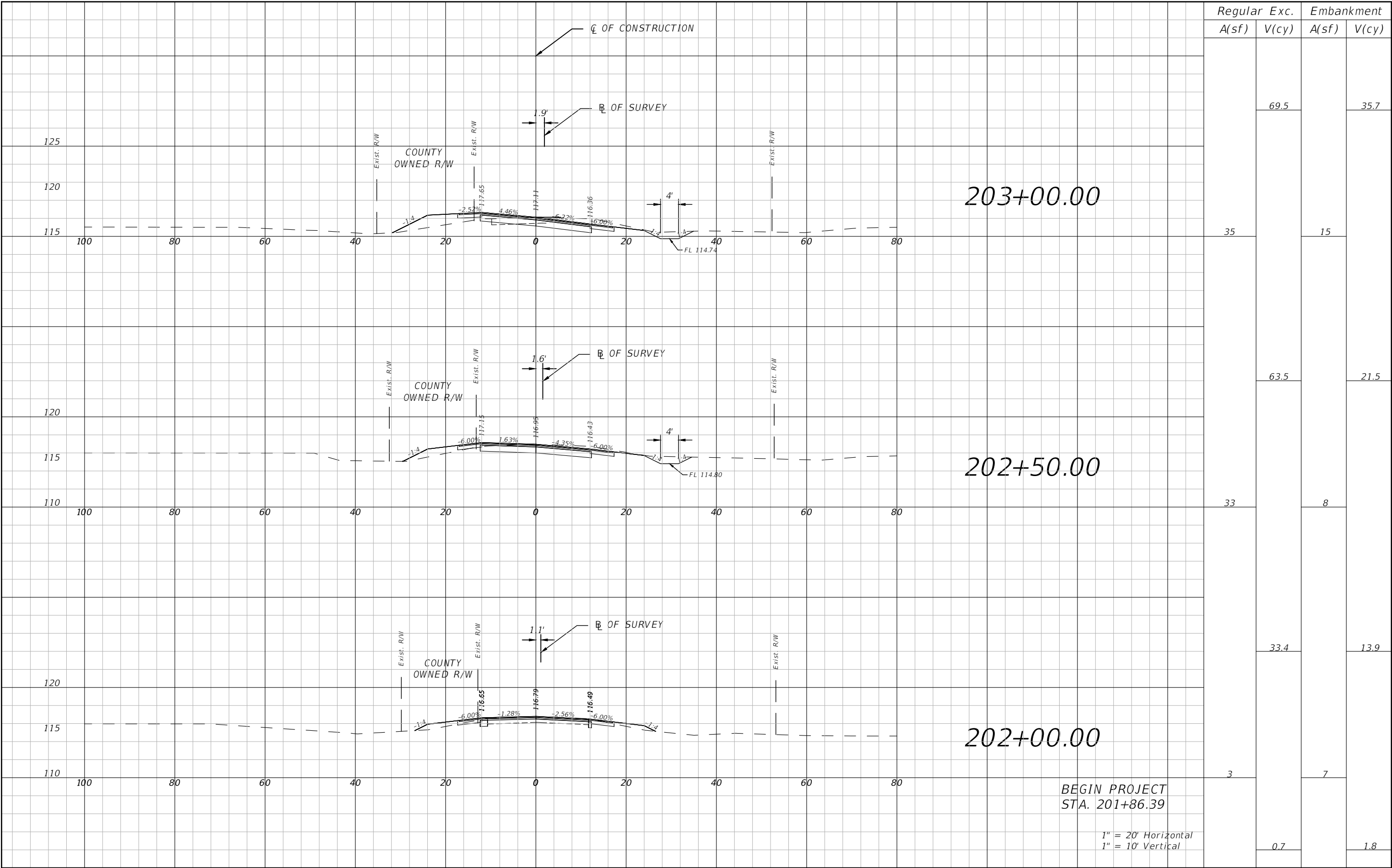
MANATEE COUNTY
PUBLIC WORKS
COUNTY PROJECT NO:
6104760

DUETTE ROAD BRIDGE REPLACEMENT
POND DETAIL SHEET
SOUTH POND

SHEET
NO.
19



REVISIONS				 Stantec STANTEC CONSULTING SERVICES, INC.	 MANATEE COUNTY PUBLIC WORKS COUNTY PROJECT NO: 6104760	DUETTE ROAD BRIDGE REPLACEMENT		SHEET NO.
NO.	DESCRIPTION	DATE	BY			POND DETAIL SHEET NORTH POND		20



Regular A(sf)	Exc. V(cy)	Embankment	
		A(sf)	V(cy)
35	69.5	15	35.7
33	63.5	8	21.5
3	33.4	7	13.9
	0.7		1.8

BEGIN PROJECT
STA. 201+86.39

1" = 20' Horizontal
1" = 10' Vertical

REVISIONS			
NO.	DESCRIPTION	DATE	BY



JASON Y. YAM, P.E.
P.E. LICENSE NUMBER 62449
380 PARK PLACE BOULEVARD
SUITE 300
CLEARWATER, FLORIDA, 33759
(727) 531-3505

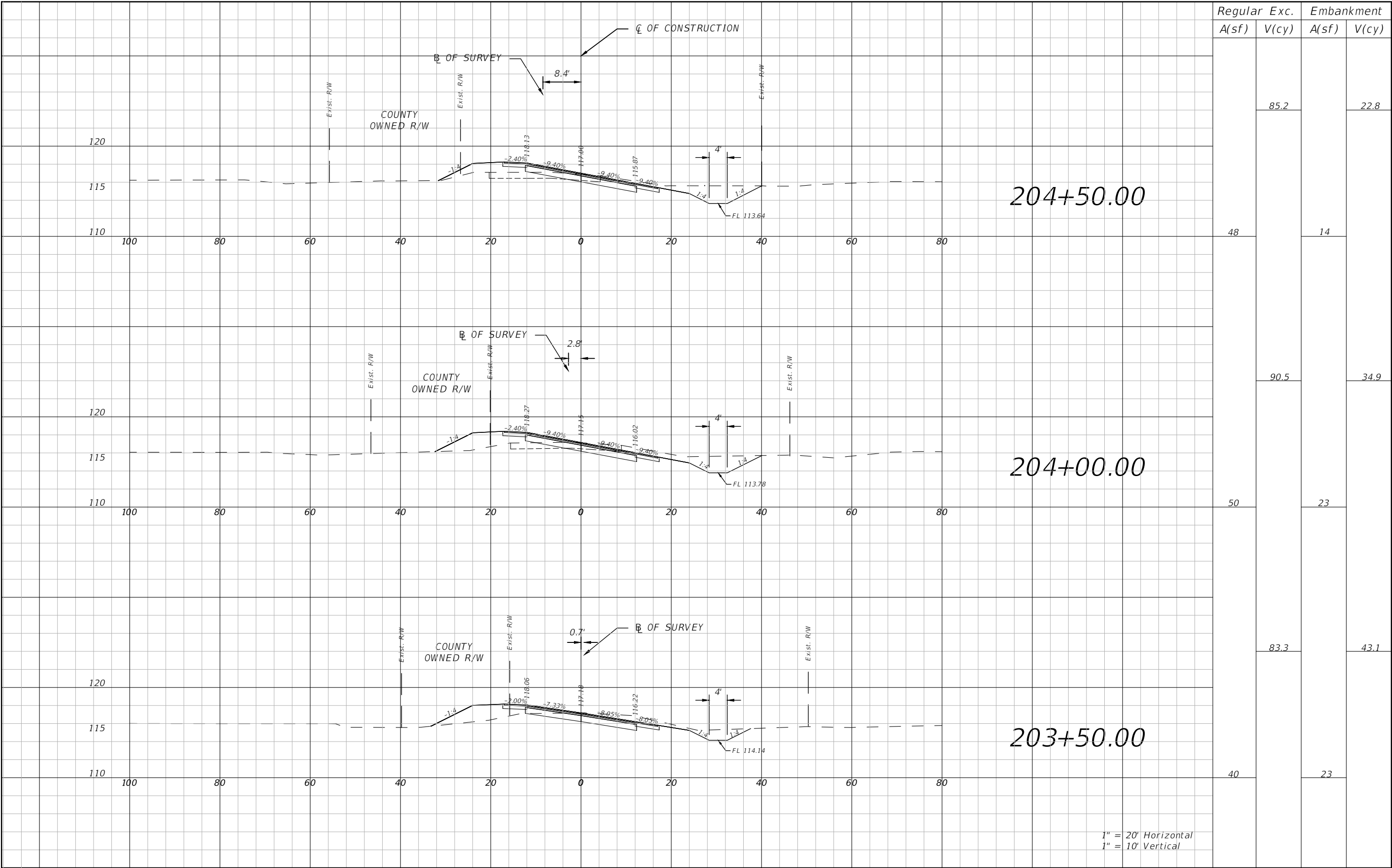


MANATEE COUNTY
PUBLIC WORKS
COUNTY PROJECT NO:
6104760

DUETTE ROAD BRIDGE REPLACEMENT
CROSS SECTION (1)

SHEET
NO.
21

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Regular		Exc.	Embankment	
A(sf)	V(cy)		A(sf)	V(cy)
48	85.2	14	22.8	34.9
50	90.5	23	43.1	23
40	83.3	23	23	23

1" = 20' Horizontal
1" = 10' Vertical

REVISIONS			
NO.	DESCRIPTION	DATE	BY



Stantec
STANTEC CONSULTING SERVICES, INC.

JASON Y. YAM, P.E.
P.E. LICENSE NUMBER 62449
380 PARK PLACE BOULEVARD
SUITE 300
CLEARWATER, FLORIDA, 33759
(727) 531-3505

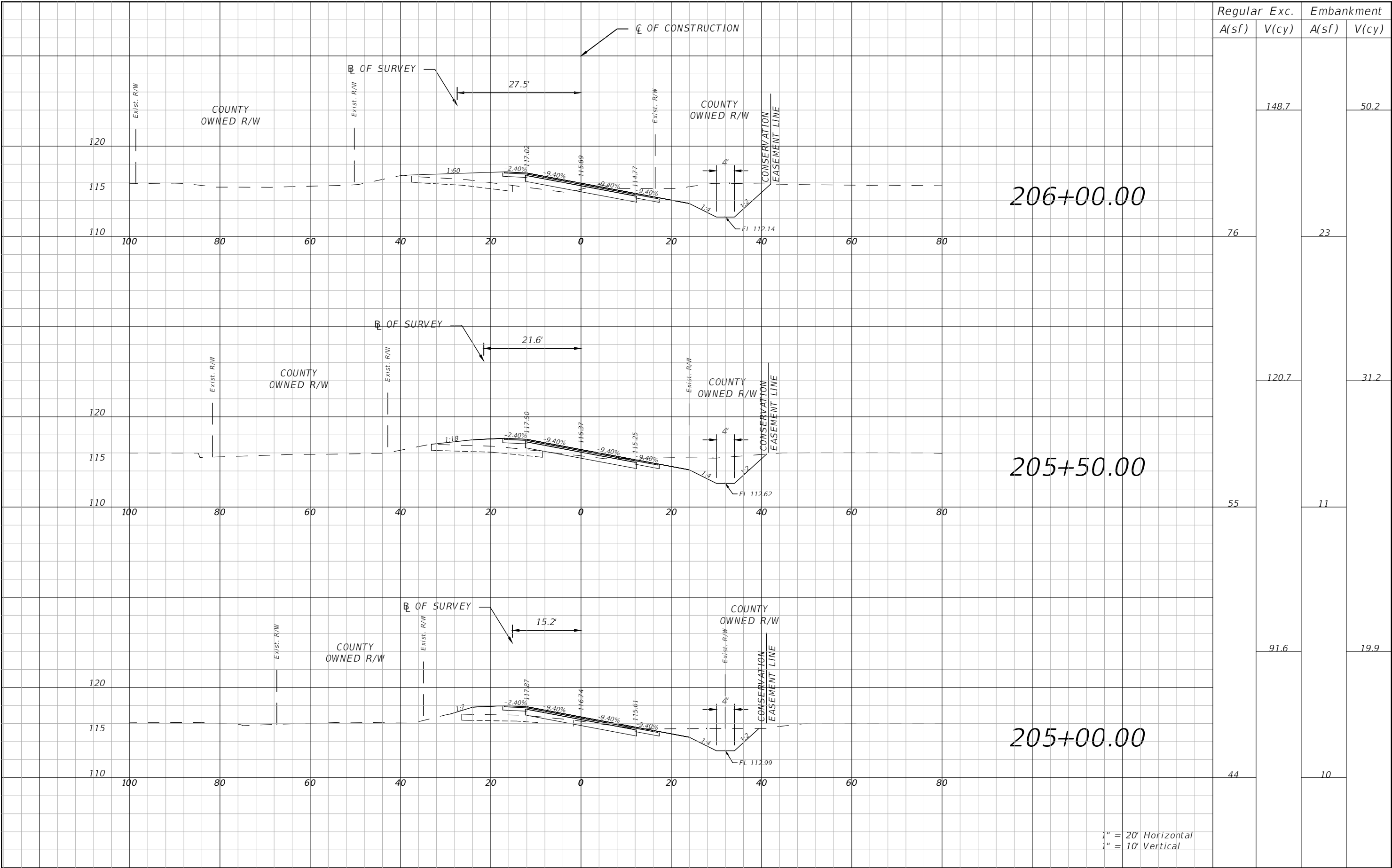


MANATEE COUNTY
PUBLIC WORKS
COUNTY PROJECT NO:
6104760

DUETTE ROAD BRIDGE REPLACEMENT
CROSS SECTION (2)

SHEET
NO.
22

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1" = 20' Horizontal
1" = 10' Vertical

REVISIONS			
NO.	DESCRIPTION	DATE	BY



Stantec
STANTEC CONSULTING SERVICES, INC.

JASON Y. YAM, P.E.
P.E. LICENSE NUMBER 62449
380 PARK PLACE BOULEVARD
SUITE 300
CLEARWATER, FLORIDA, 33759
(727) 531-3505



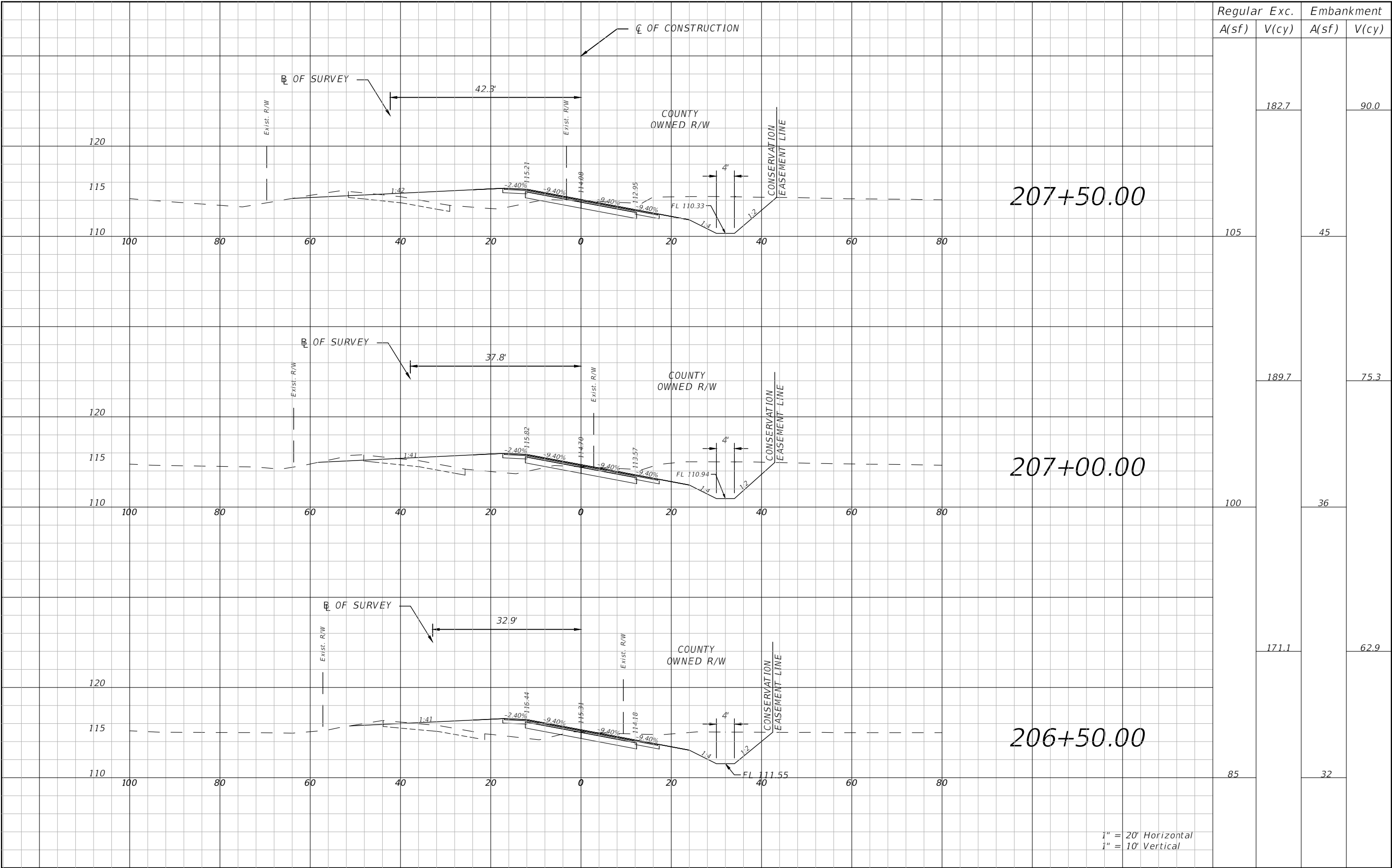
MANATEE COUNTY
PUBLIC WORKS
COUNTY PROJECT NO:
6104760

DUETTE ROAD BRIDGE REPLACEMENT

CROSS SECTION (3)

SHEET
NO.
23

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Regular	Exc.	Embankment
A(sf)	V(cy)	A(sf) V(cy)

105	182.7	45	90.0
100	189.7	36	75.3
85	171.1	32	62.9

1" = 20' Horizontal
1" = 10' Vertical

REVISIONS			
NO.	DESCRIPTION	DATE	BY



JASON Y. YAM, P.E.
P.E. LICENSE NUMBER 62449
380 PARK PLACE BOULEVARD
SUITE 300
CLEARWATER, FLORIDA, 33759
(727) 531-3505

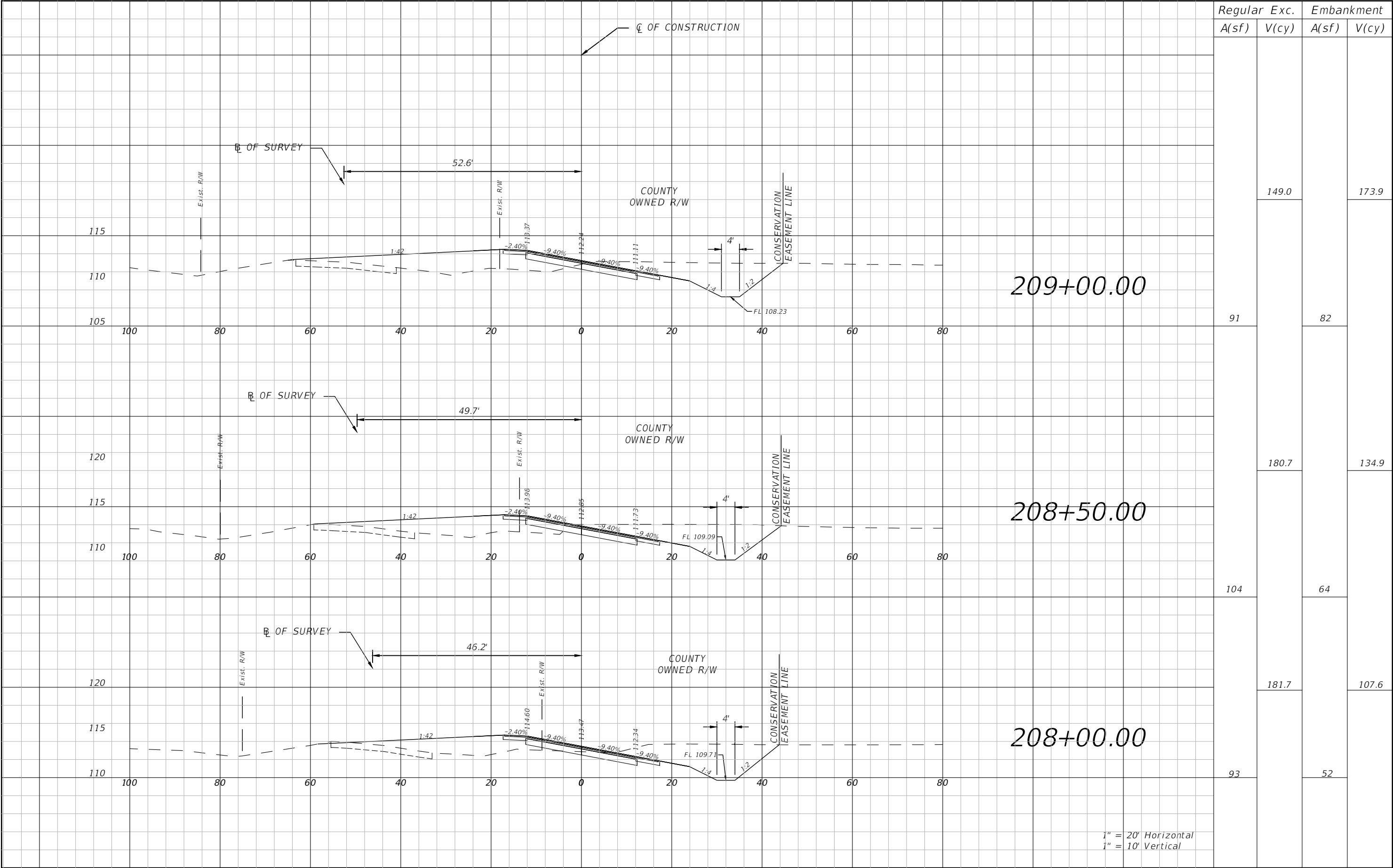


MANATEE COUNTY
PUBLIC WORKS
COUNTY PROJECT NO:
6104760

DUETTE ROAD BRIDGE REPLACEMENT
CROSS SECTION (4)

SHEET NO.
24

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Regular	Exc.	Embankment
A(sf)	V(cy)	A(sf) V(cy)

149.0 173.9

91 82

180.7 134.9

104 64

181.7 107.6

93 52

1" = 20' Horizontal
1" = 10' Vertical

REVISIONS			
NO.	DESCRIPTION	DATE	BY



Stantec
STANTEC CONSULTING SERVICES, INC.

JASON Y. YAM, P.E.
P.E. LICENSE NUMBER 62449
380 PARK PLACE BOULEVARD
SUITE 300
CLEARWATER, FLORIDA, 33759
(727) 531-3505

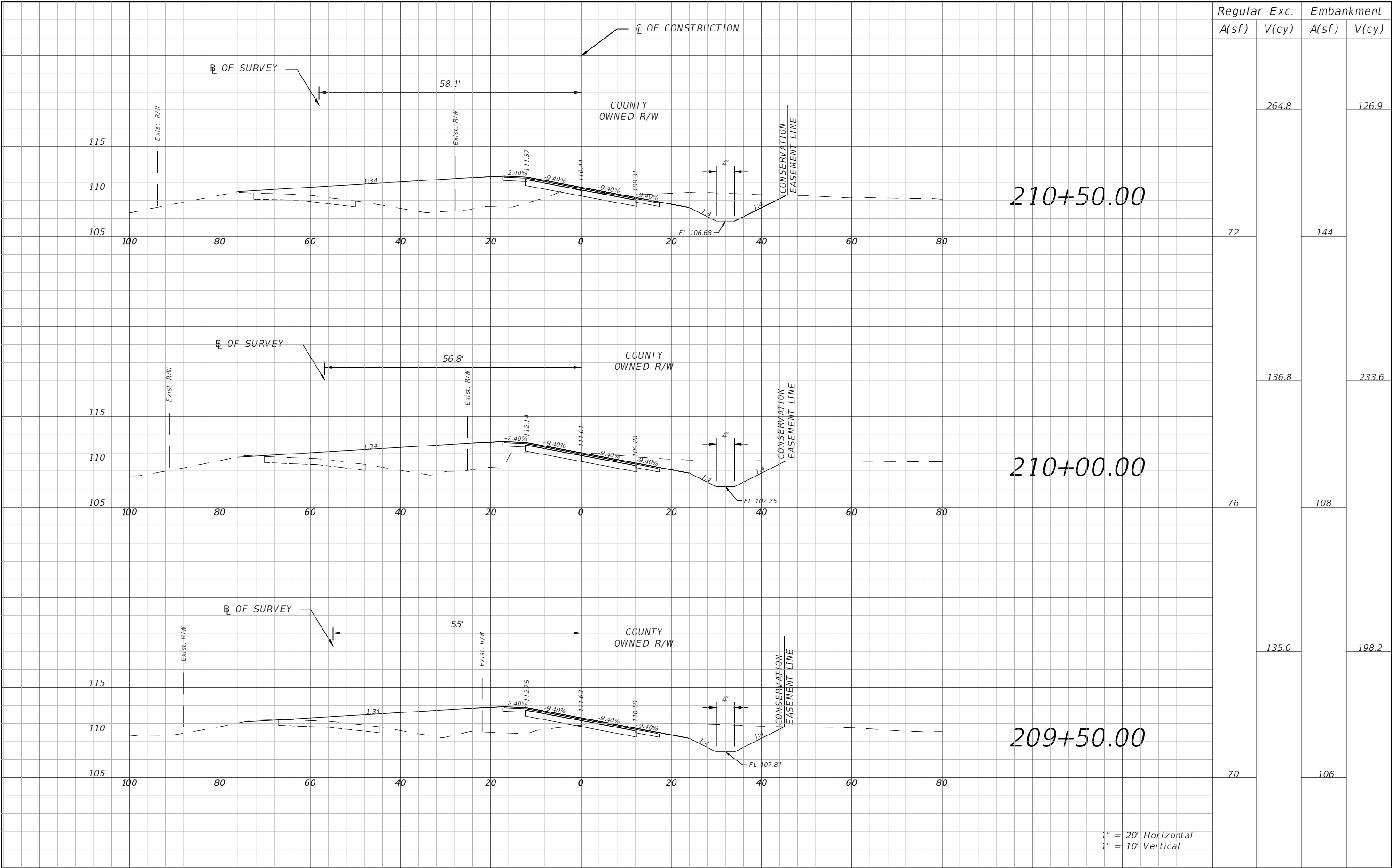


MANATEE COUNTY
PUBLIC WORKS
COUNTY PROJECT NO:
6104760

DUETTE ROAD BRIDGE REPLACEMENT
CROSS SECTION (5)

SHEET
NO.
25

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1" = 20' Horizontal
1" = 10' Vertical

REVISIONS			
NO.	DESCRIPTION	DATE	BY



JASON Y. YAM, P.E.
P.E. LICENSE NUMBER 62449
380 PARK PLACE BOULEVARD
SUITE 300
CLEARWATER, FLORIDA, 33759
(727) 531-3505

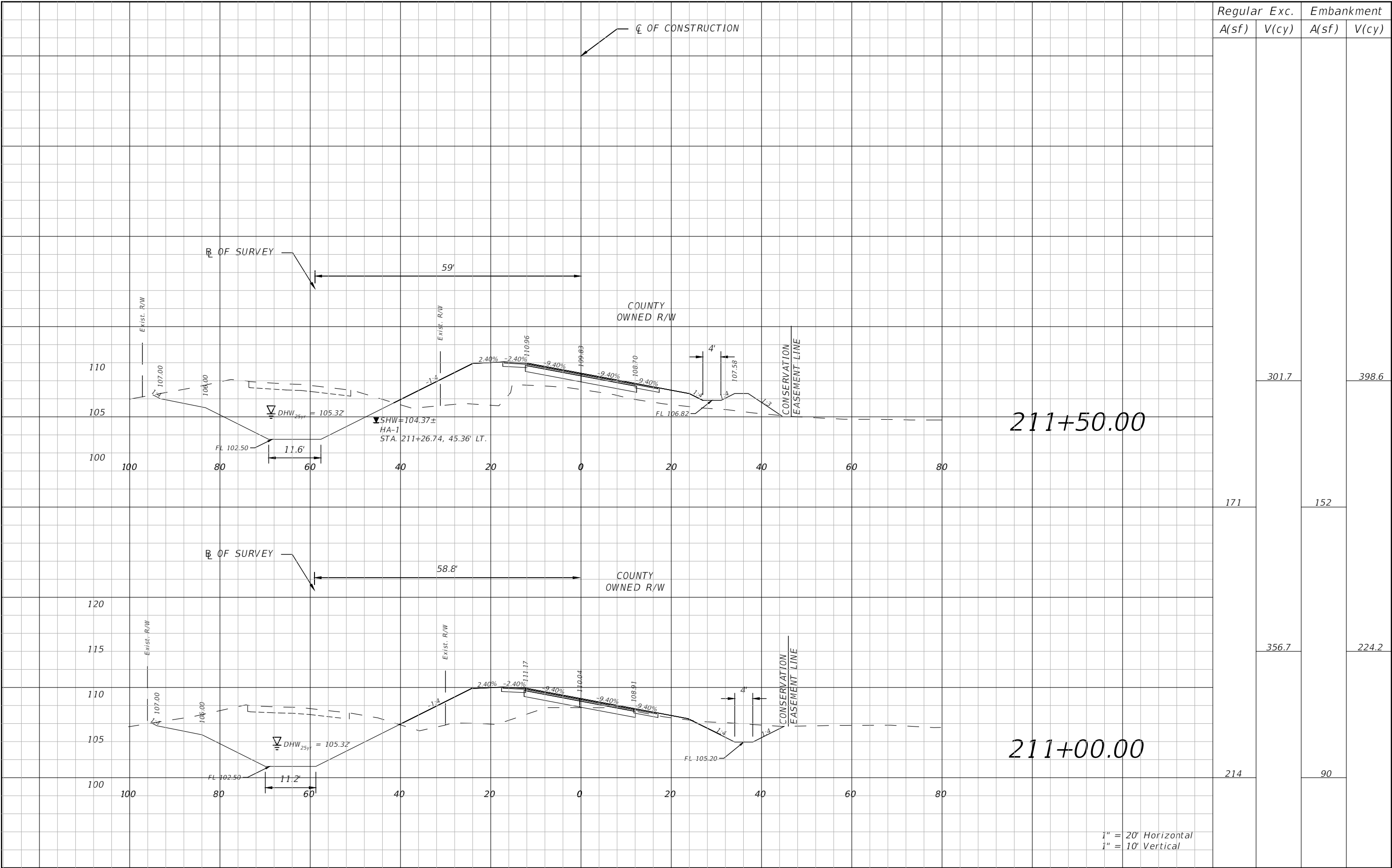


MANATEE COUNTY
PUBLIC WORKS
COUNTY PROJECT NO:
6104760

DUETTE ROAD BRIDGE REPLACEMENT
CROSS SECTION (6)

SHEET
NO.
26

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REVISIONS			
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STANTEC CONSULTING SERVICES, INC.

JASON Y. YAM, P.E.
P.E. LICENSE NUMBER 62449
380 PARK PLACE BOULEVARD
SUITE 300
CLEARWATER, FLORIDA, 33759
(727) 531-3505

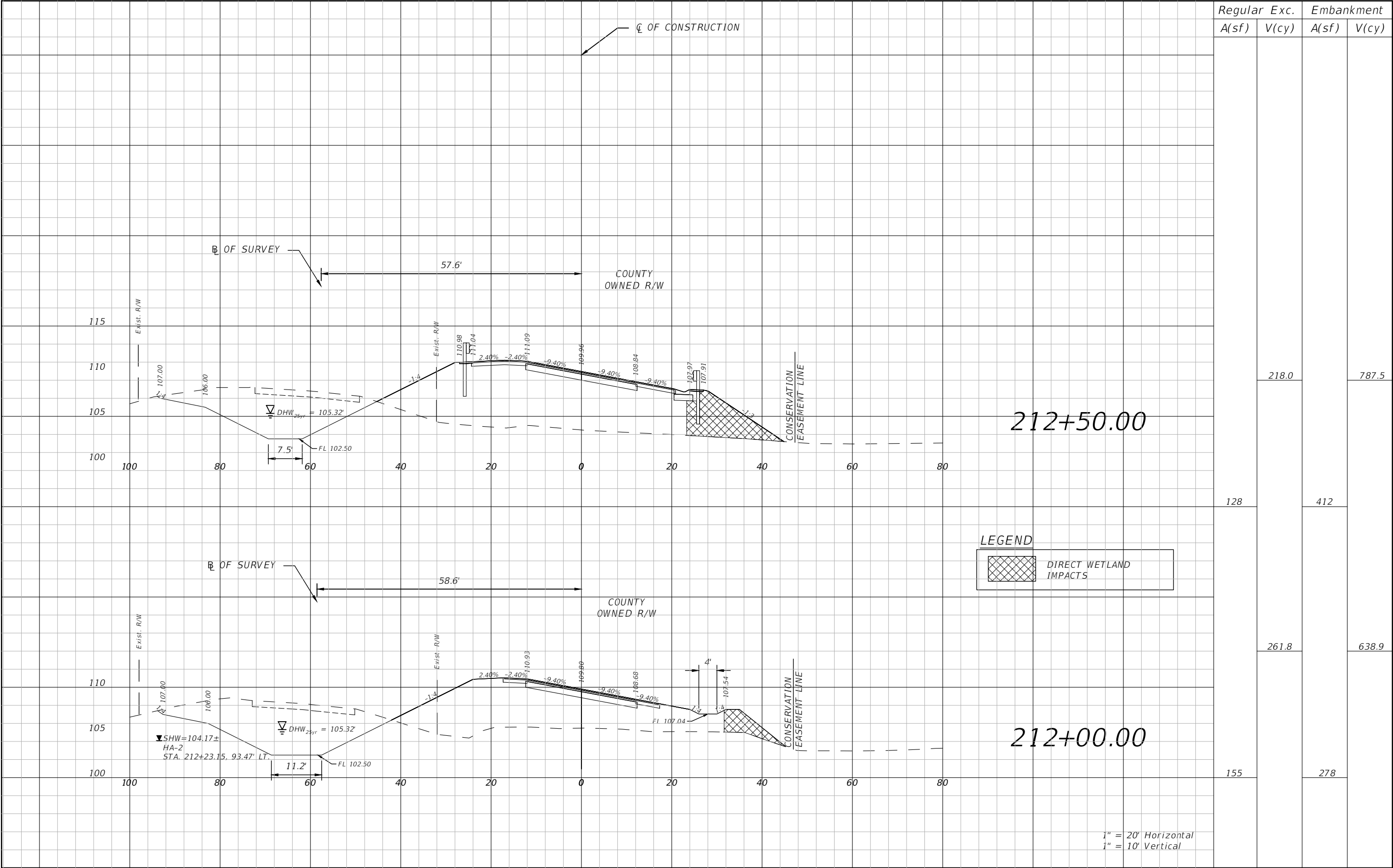


MANATEE COUNTY
PUBLIC WORKS
COUNTY PROJECT NO:
6104760

DUETTE ROAD BRIDGE REPLACEMENT
CROSS SECTION (7)

SHEET
NO.
27

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REVISIONS			
NO.	DESCRIPTION	DATE	BY



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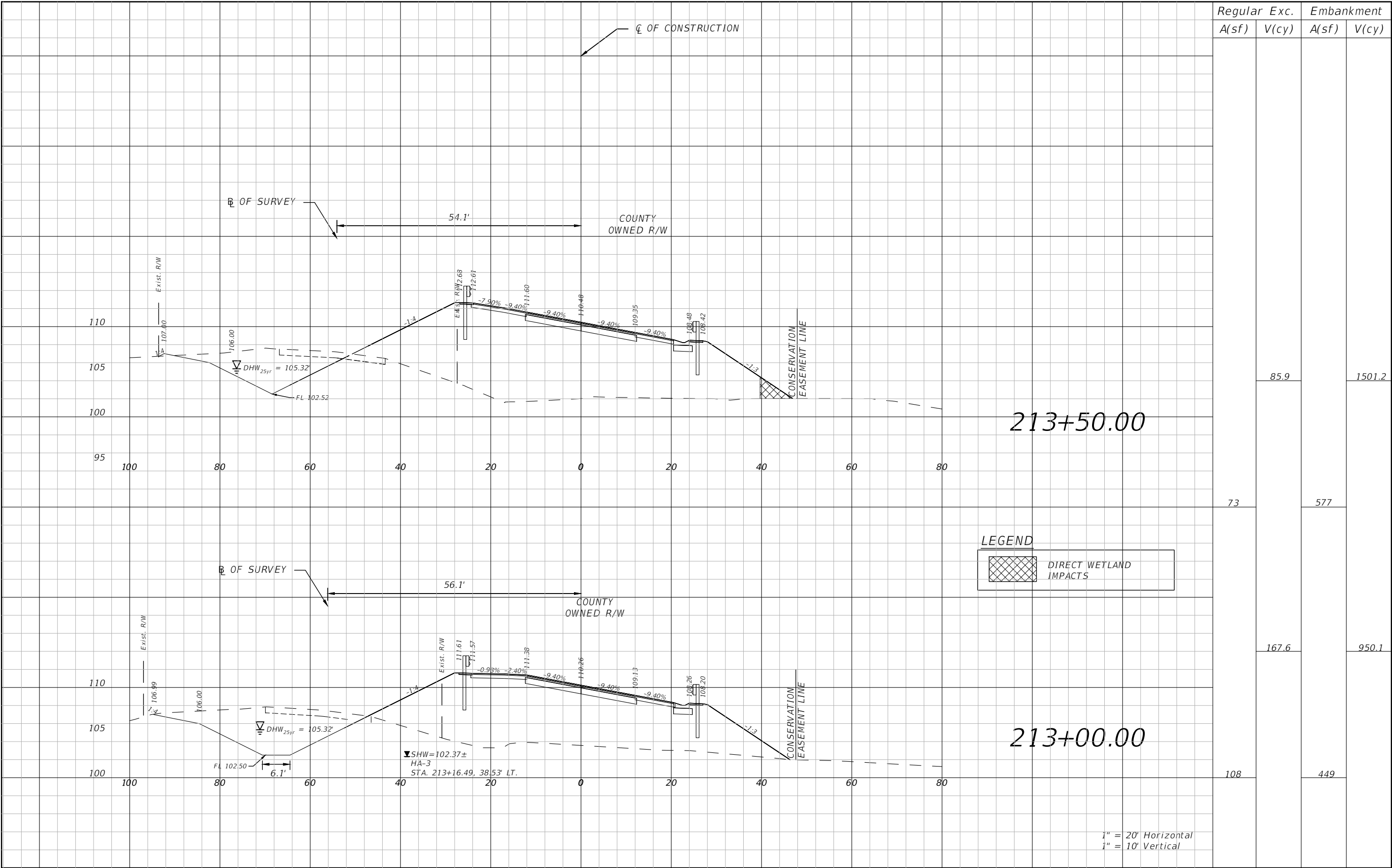
JASON Y. YAM, P.E.
P.E. LICENSE NUMBER 62449
380 PARK PLACE BOULEVARD
SUITE 300
CLEARWATER, FLORIDA, 33759
(727) 531-3505



MANATEE COUNTY
PUBLIC WORKS
COUNTY PROJECT NO:
6104760

<i>DUETTE ROAD BRIDGE REPLACEMENT</i>		<i>SHEET NO.</i>
<i>CROSS SECTION (8)</i>		

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Regular		Exc.	Embankment	
A(sf)	V(cy)		A(sf)	V(cy)

73		85.9	577		1501.2
108		167.6	449		950.1

LEGEND

DIRECT WETLAND IMPACTS

1" = 20' Horizontal
1" = 10' Vertical

REVISIONS			
NO.	DESCRIPTION	DATE	BY



Stantec
STANTEC CONSULTING SERVICES, INC.

JASON Y. YAM, P.E.
P.E. LICENSE NUMBER 62449
380 PARK PLACE BOULEVARD
SUITE 300
CLEARWATER, FLORIDA, 33759
(727) 531-3505



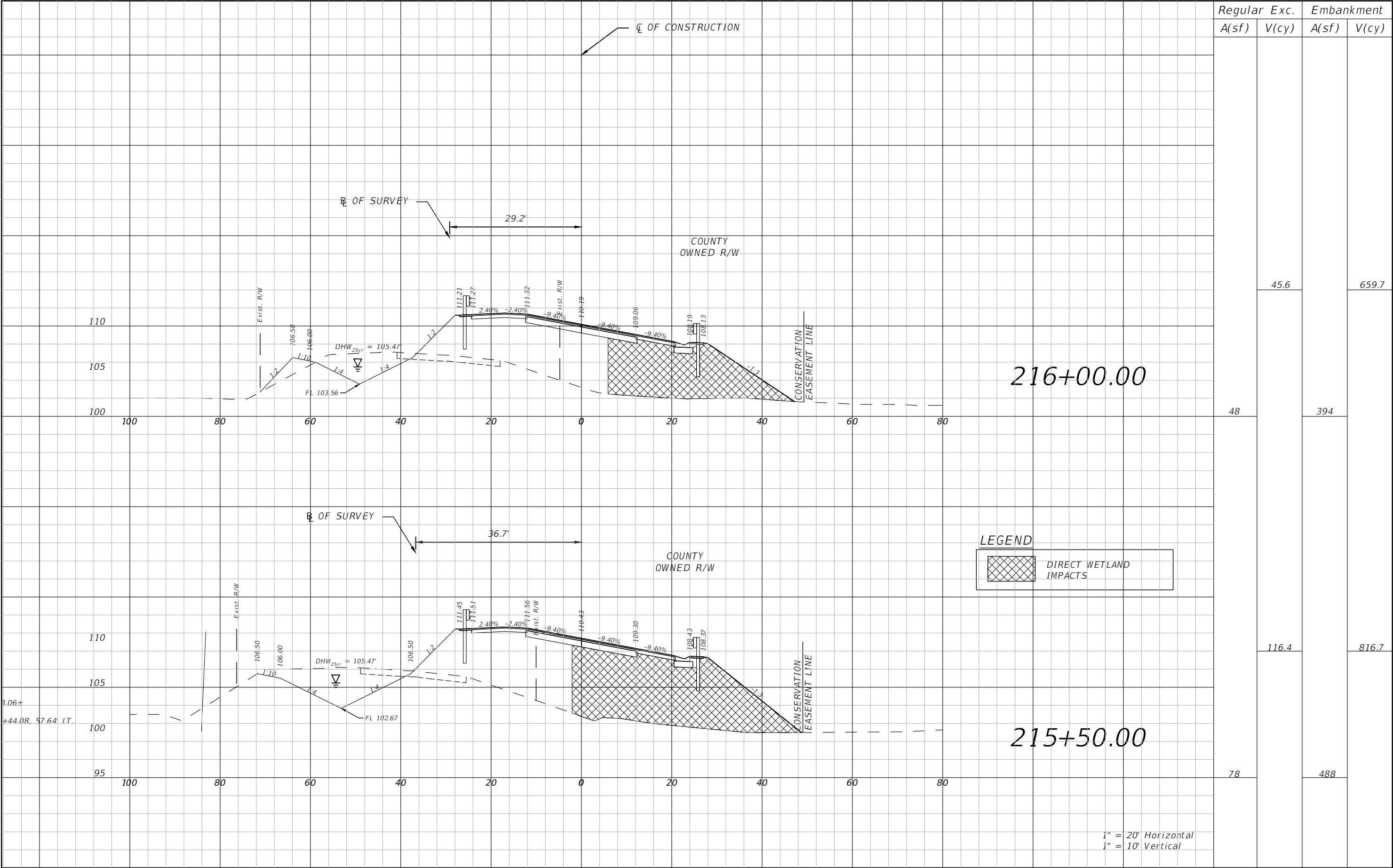
MANATEE COUNTY
PUBLIC WORKS
COUNTY PROJECT NO:
6104760



DUETTE ROAD BRIDGE REPLACEMENT

CROSS SECTION (9)

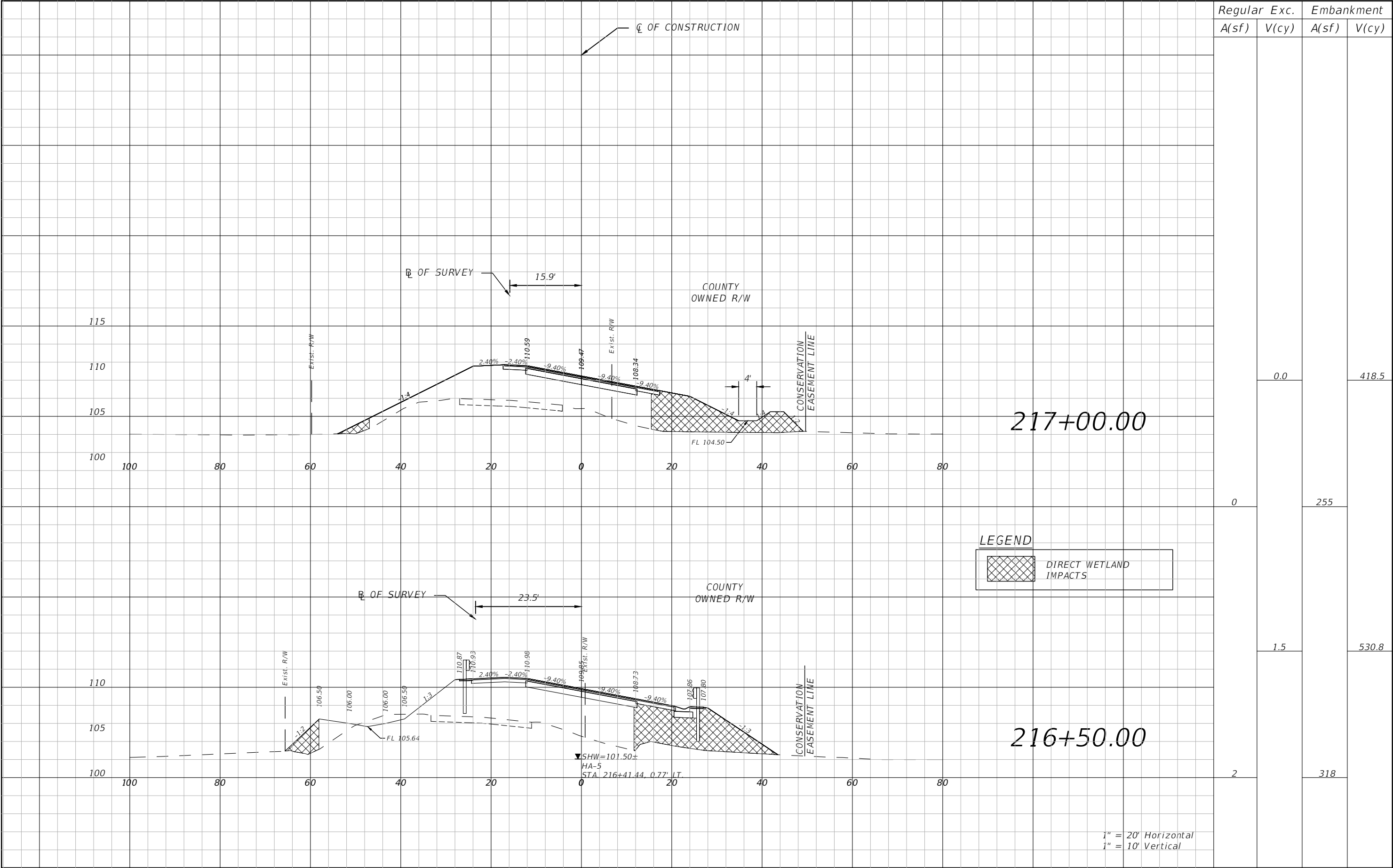
SHEET NO.
29



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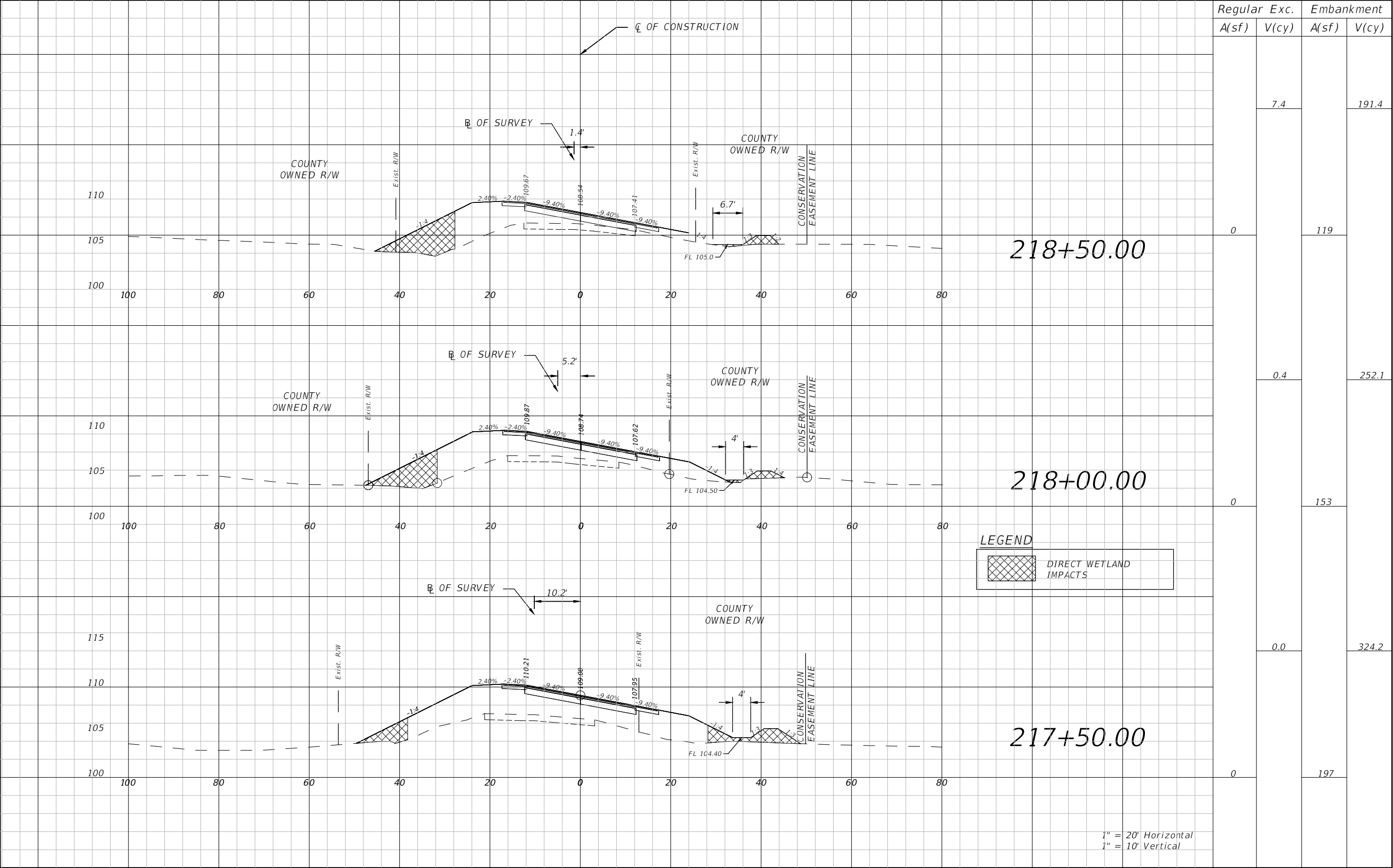
REVISIONS				 Stantec STANTEC CONSULTING SERVICES, INC.	 MANATEE COUNTY PUBLIC WORKS COUNTY PROJECT NO: 6104760	<i>DUETTE ROAD BRIDGE REPLACEMENT</i>		<i>SHEET NO.</i>
NO.	DESCRIPTION	DATE	BY			<i>CROSS SECTION (11)</i>		31



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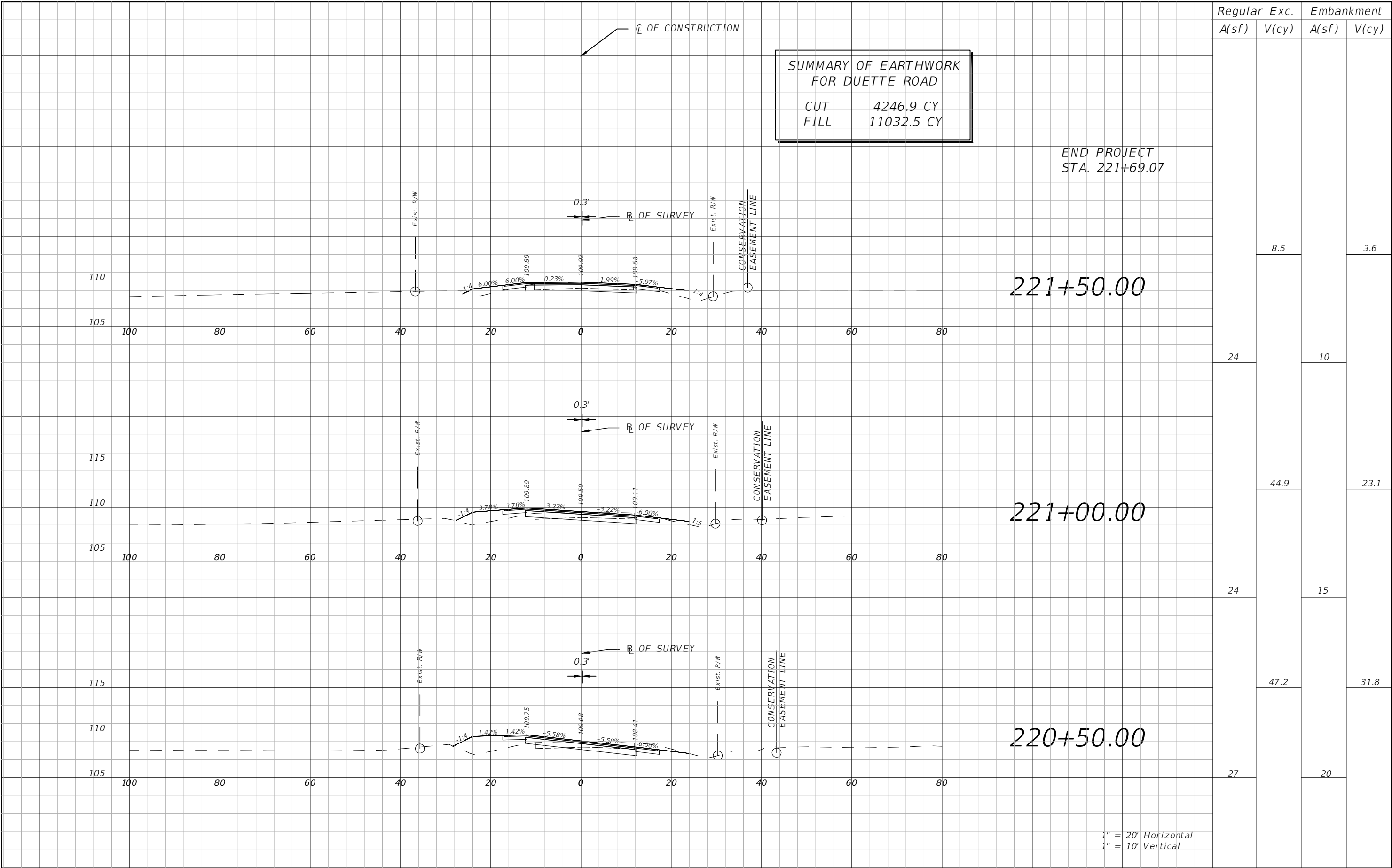
REVISIONS				 Stantec STANTEC CONSULTING SERVICES, INC.	 MANATEE COUNTY PUBLIC WORKS COUNTY PROJECT NO: 6104760	<i>DUETTE ROAD BRIDGE REPLACEMENT</i>		<i>SHEET NO.</i>
NO.	DESCRIPTION	DATE	BY			<i>CROSS SECTION (12)</i>		32

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REVISIONS				 <div>Stantec</div> <div>STANTEC CONSULTING SERVICES, INC.</div>	 <div>MANATEE COUNTY PUBLIC WORKS</div> <div>COUNTY PROJECT NO: 6104760</div>	DUETTE ROAD BRIDGE REPLACEMENT		SHEET NO.
NO.	DESCRIPTION	DATE	BY			CROSS SECTION (13)		33

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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.

GENERAL NOTES

1. POSTED REGULATORY SPEED LIMITS ALONG DUETTE ROAD SHALL MATCH EXISTING SPEEDS POSTED WITHIN THE PROJECT LIMITS THROUGHOUT THE DURATION OF CONSTRUCTION.
2. THE CONTRACTOR SHALL PROVIDE FOR THE SAFE MOVEMENT OF PEDESTRIANS AND VEHICLES THROUGHOUT ALL PHASES OF CONSTRUCTION.
3. ACCESS SHALL BE CONTINUOUSLY MAINTAINED AT ALL SIDE STREETS AND DRIVEWAYS FOR THE DURATION OF PROJECT.
4. THE COST OF MAINTENANCE OF TRAFFIC OPERATIONS SHALL BE INCLUDED UNDER THE LUMP SUM PAY ITEM FOR MAINTENANCE OF TRAFFIC, UNLESS A SEPARATE PAY ITEM IS PROVIDED.
5. EXISTING DRAINAGE PATTERNS SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION OF THE PROJECT
6. THE CONTRACTOR SHALL NOTIFY MANATEE COUNTY PUBLIC WORKS PRIOR TO A LANE CLOSURE THAT WILL EXCEED TWO HOURS, A MINIMUM OF FORTY EIGHT (48) HOURS IN ADVANCE. DURING PERIODS OF LANE CLOSURES, THE CONTRACTOR SHALL PROVIDE AN FDOT CERTIFIED WORK SITE TRAFFIC SUPERVISOR FOR THE INSTALLATION, MAINTENANCE, AND REMOVAL OF TRAFFIC CONTROL DEVICES (E.G. BARRICADES, SIGNS, ARROW PANELS, ETC.) AS OUTLINED IN THE FDOT STANDARD SPECIFICATIONS AND THE FDOT ROADWAY AND TRAFFIC DESIGN STANDARDS.
7. MILLING OPERATIONS SHALL NOT EXCEED MORE THAN WHAT CAN BE RESURFACED WITHIN THE SAME WORK PERIOD.
8. EXISTING PAVEMENT MARKINGS THAT CONFLICT WITH TEMPORARY PAVEMENT MARKING SHALL BE REMOVED BY HIGH PRESSURE WATER OR OTHER NON- DESTRUCTIVE METHODS AS APPROVED BY THE ENGINEER. ALL EXISTING MARKINGS OUTSIDE THE LIMITS OF CONSTRUCTION WHICH ARE REMOVED FOR TTCP PURPOSES SHALL BE REPLACED BEFORE THE COMPLETION OF THE PROJECT
9. ALL TEMPORARY EARTHWORK AND PAVEMENT SHALL BE REMOVED AND RESTORED TO EXISTING CONDITION IF NO PROPOSED GRADING IS REQUIRED.

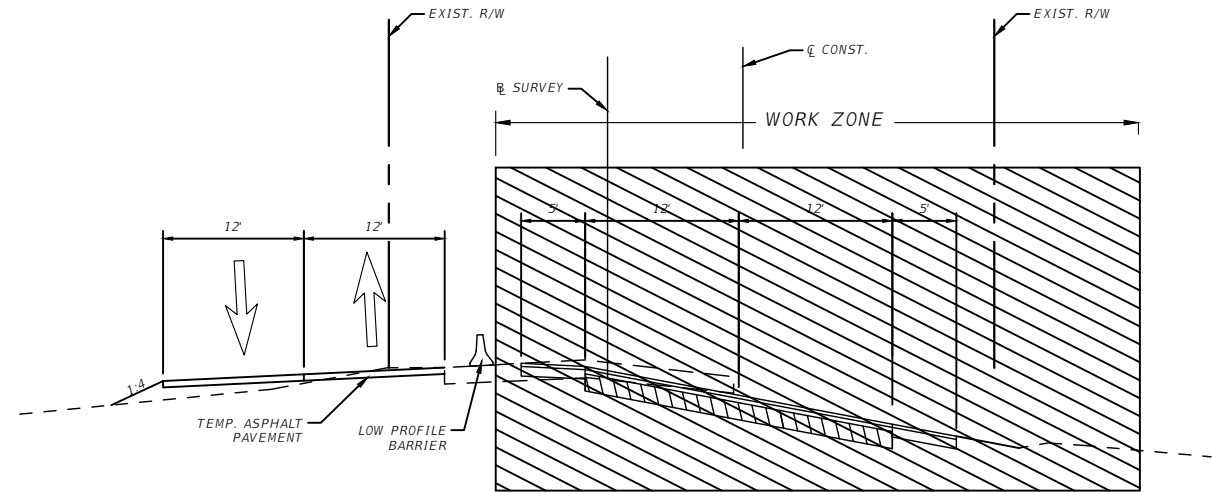
PHASING NOTES

PHASE I OPERATIONS INCLUDE CONSTRUCTION OF TEMPORARY PAVEMENT TO CONNECT TO EXISTING ROADWAY

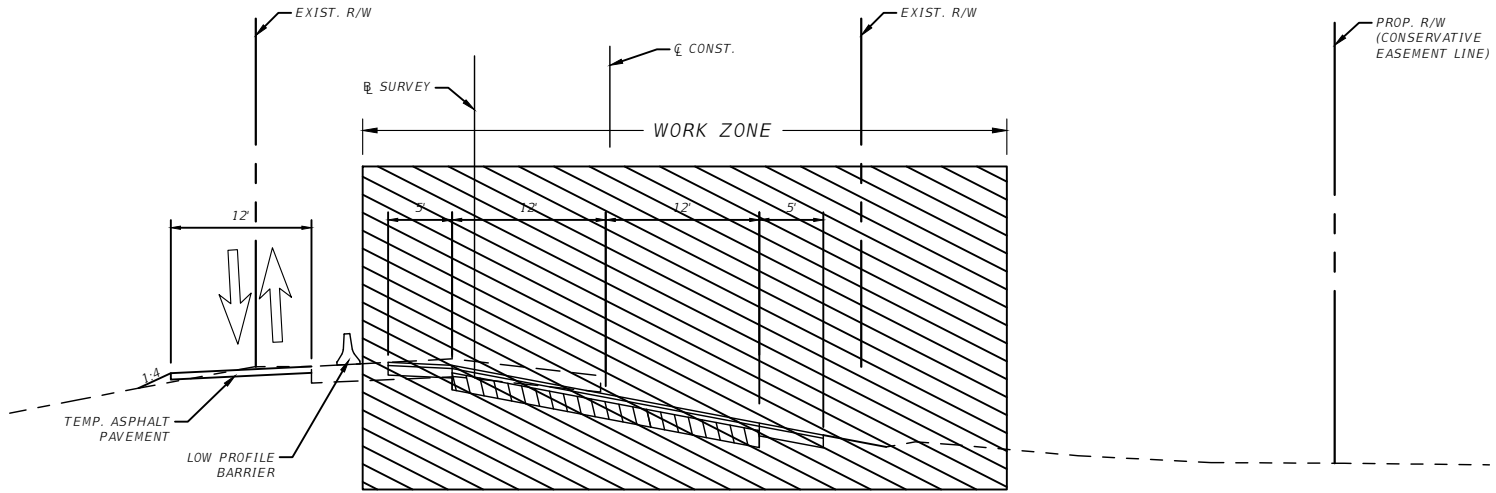
1. MAINTAIN EXISTING TRAFFIC PATTERN ON THE EXISTING FACILITY.
2. EXISTING DRAINAGE FLOW PATTERNS ARE TO BE MAINTAINED DURING PHASE I CONSTRUCTION.
3. CONSTRUCT TEMPORARY PAVEMENT FOR PHASE II CONSTRUCTION
4. INSTALL TEMPORARY SIGNAL FOR PHASE II SOUTH OF BRIDGE PORTION

PHASE IIA OPERATIONS INCLUDE CONSTRUCTION OF PROPOSED ROADWAY, SHOULDER, SHOULDER CURB, DRAINAGE SYSTEM, AND BRIDGE

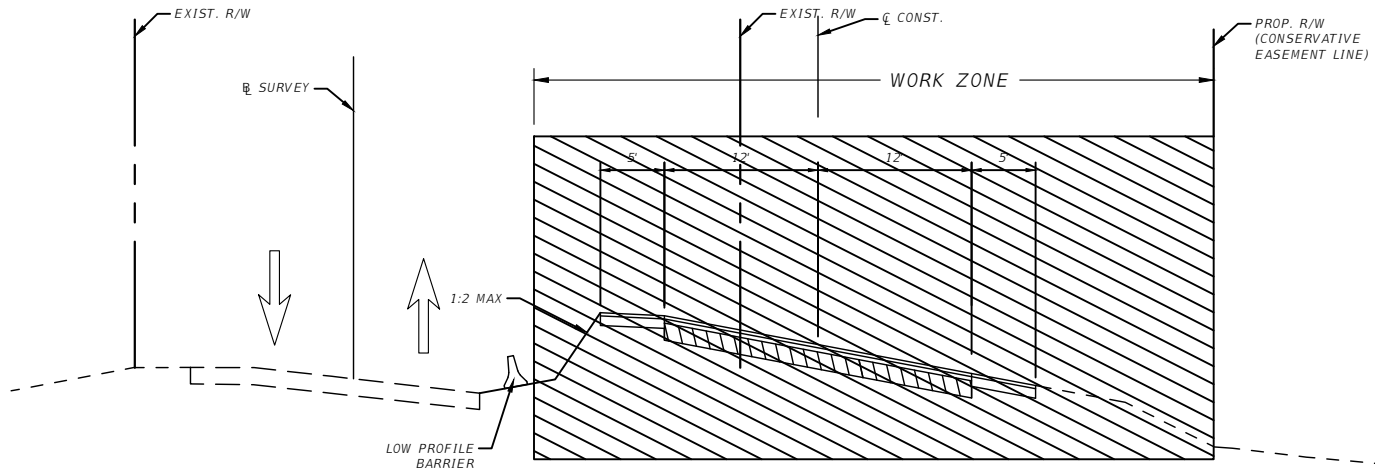
1. SHIFT TRAFFIC PATTERNS TO TEMPORARY ASPHALT PAVEMENT AND USE TEMPORARY TRAFFIC SIGNAL ALONG SOUTH PORTION OF BRIDGE.
2. INSTALL TEMPORARY DEVICES AND SIGNING TO SHIFT TRAFFIC TO TEMPORARY ASPHALT PAVEMENT.
3. EXISTING DRAINAGE FLOW PATTERNS AND CROSS DRAIN FLOW DIRECTIONS ARE TO BE MAINTAINED DURING PHASE IIA CONSTRUCTION.
4. REFERENCE TO FDOT INDEX NOS. 102-601, 102-602, 102-603, AND 102-606, CONSTRUCTION OF PROPOSED ROADWAY, SHOULDER, SHOULDER CURB, DRAINAGE SYSTEM, AND BRIDGE.



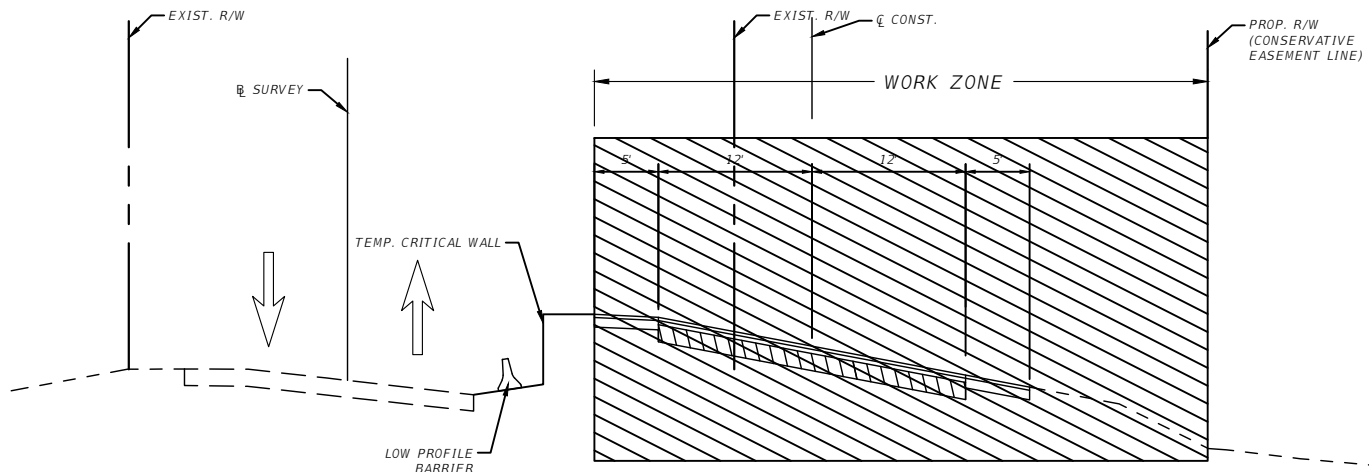
PHASE II - 217+00 TO 221+69.07



PHASE II - 201+86.39 TO 207+40



PHASE II - 207+40 TO 214+00



PHASE II - 215+00 TO 217+00

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NO.	DESCRIPTION	DATE	BY



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SUITE 300
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(727)531-3505



MANATEE COUNTY
PUBLIC WORKS
COUNTY PROJECT NO:
6104760

DUETTE ROAD BRIDGE REPLACEMENT
TEMPORARY TRAFFIC CONTROL
NOTES (1)

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PHASING NOTES

PHASE IIB OPERATIONS INCLUDE MILLING AND OVERBUILD OF EXISTING ROADWAY

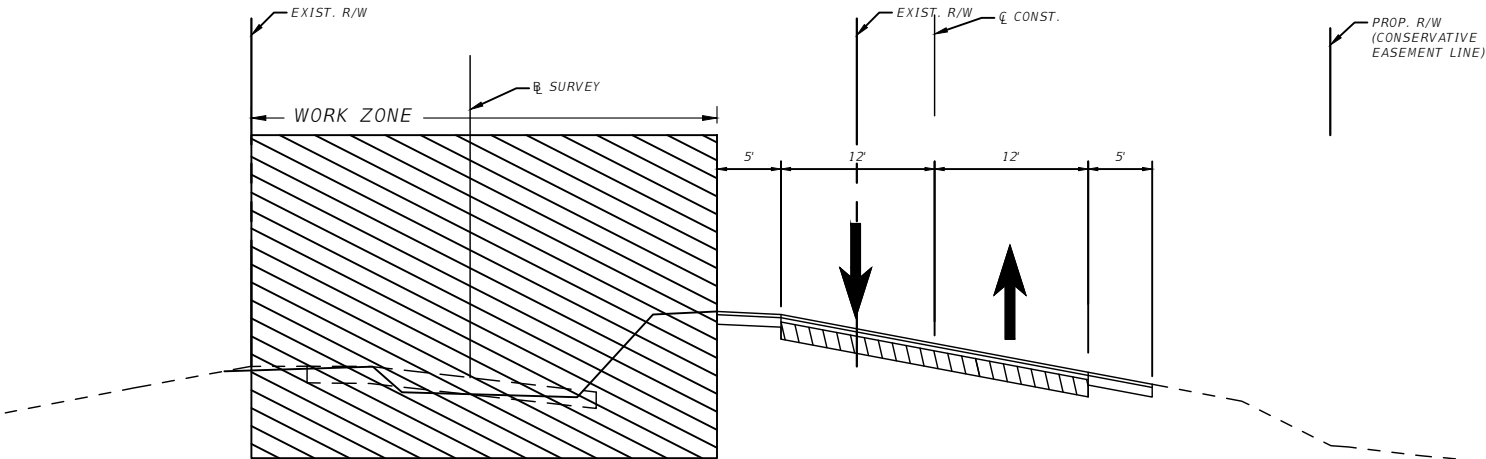
- 1. MAINTAIN TRAFFIC PATTERNS FROM PHASE IIA
- 2. EXISTING DRAINAGE FLOW PATTERNS AND CROSS DRAIN FLOW DIRECTIONS ARE TO BE MAINTAINED DURING PHASE IIB CONSTRUCTION.
- 3. WITH REFERENCE TO FDOT INDEX NOS. 102-601, 102-602, 102-603, AND 102-606, MILLING AND OVERBUILD OF EXISTING ROADWAY.

PHASE III OPERATIONS INCLUDE CONSTRUCTION OF REMAINING PROPOSED WORK AND REMOVAL OF EXISTING BRIDGE

- 1. SHIFT TRAFFIC PATTERNS TO PROPOSED ROADWAY.
- 2. EXISTING DRAINAGE FLOW PATTERNS AND CROSS DRAIN FLOW DIRECTIONS ARE TO BE MAINTAINED DURING PHASE III CONSTRUCTION.
- 4. WITH REFERENCE TO FDOT INDEX NOS. 102-601, 102-602, 102-603, AND 102-606, CONSTRUCTION OF PROPOSED SHOULDER AND DRAINAGE SYSTEM AND REMOVAL OF EXISTING BRIDGE.



PHASE IV OPERATIONS INCLUDES RESURFACING, FINAL PAVEMENT MARKINGS, AND FINAL SIGNAGE.

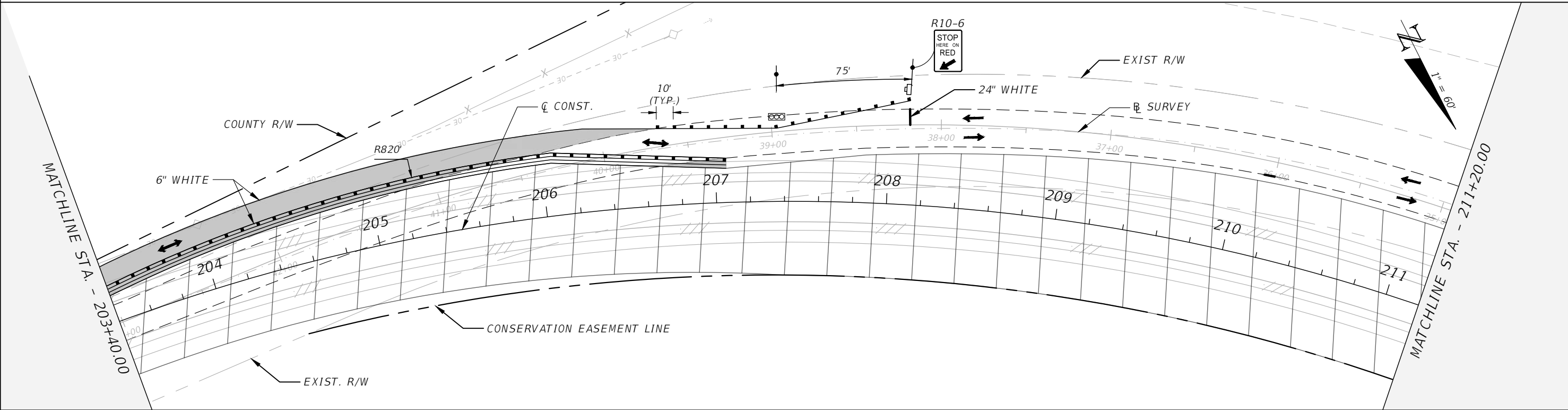
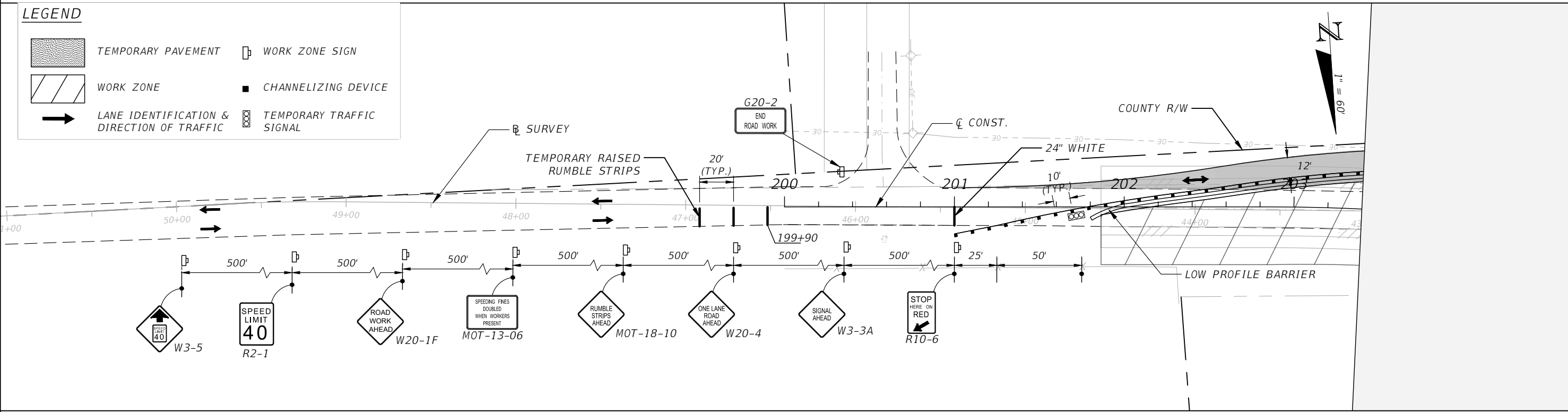
- 1. MAINTAIN PROPOSED TRAFFIC PATTERN ON THE FACILITY.
- 2. PROPOSED DRAINAGE FLOW PATTERNS AND CROSS DRAIN FLOW DIRECTIONS ARE TO BE MAINTAINED DURING PHASE IV CONSTRUCTION.
- 3. WITH REFERENCE TO FDOT INDEX NOS. 102-613, APPLY FINAL SURFACE, PAVEMENT MARKINGS AND SIGNAGE.
- 4. REMOVE ALL TEMPORARY TRAFFIC CONTROL DEVICES, SIGNS, AND INCIDENTALS TO OPEN ALL LANES OF TRAFFIC UPON COMPLETION OF WORK.



PHASE III - DUETTE

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NO.	DESCRIPTION	DATE	BY					37



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NO.	DESCRIPTION	DATE	BY



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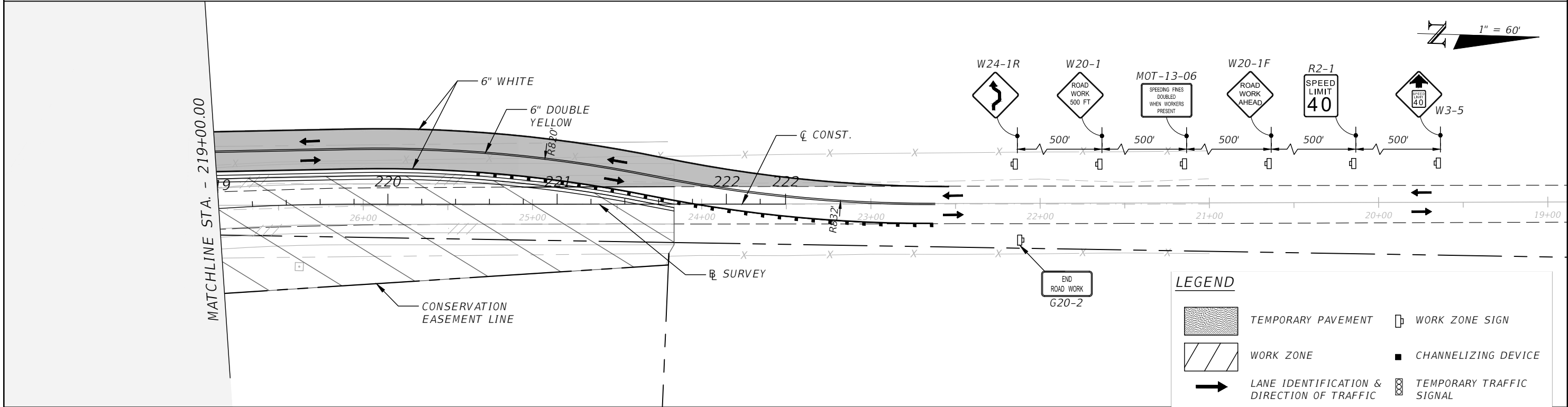
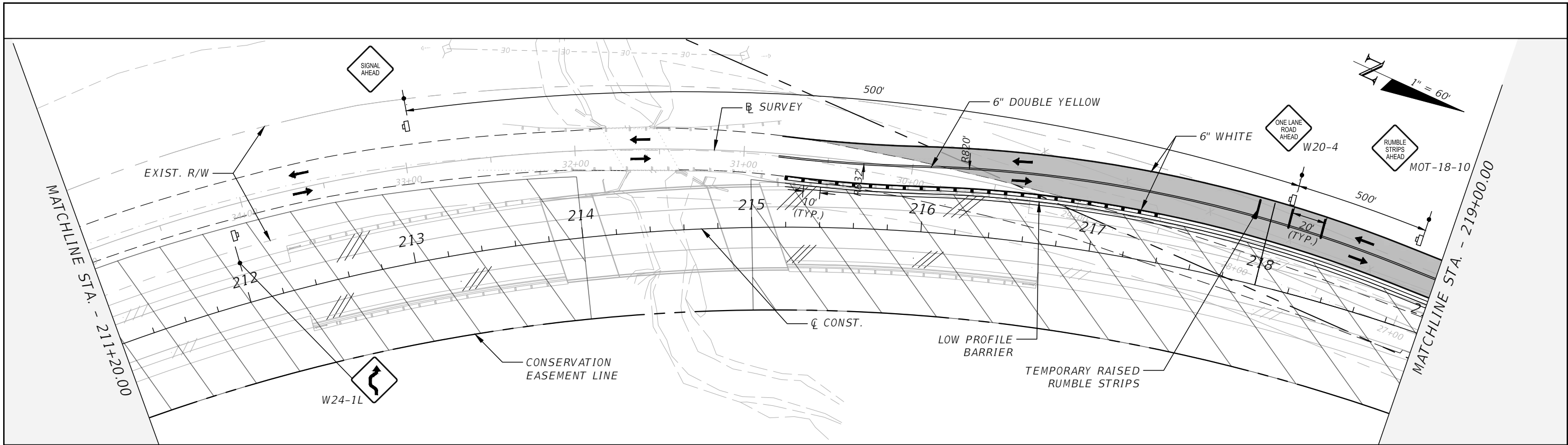


MANATEE COUNTY
PUBLIC WORKS
COUNTY PROJECT NO:
6104760

DUETTE ROAD BRIDGE REPLACEMENT
TEMPORARY TRAFFIC CONTROL
PLAN (1) - PHASE II

SHEET
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LEGEND			
	TEMPORARY PAVEMENT		WORK ZONE SIGN
	WORK ZONE		CHANNELIZING DEVICE
	LANE IDENTIFICATION & DIRECTION OF TRAFFIC		TEMPORARY TRAFFIC SIGNAL

REVISIONS			
NO.	DESCRIPTION	DATE	BY

**Stantec**
STANTEC CONSULTING SERVICES, INC.

JASON Y. YAM, P.E.
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**Manatee County**
FLORIDA

MANATEE COUNTY
PUBLIC WORKS
COUNTY PROJECT NO:
6104760

DUETTE ROAD BRIDGE REPLACEMENT
TEMPORARY TRAFFIC CONTROL
PLAN (2) - PHASE II

SHEET
NO.
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THE FOLLOWING NARRATIVE OF THE STORMWATER POLLUTION PREVENTION PLAN CONTAINS REFERENCES TO THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, THE DESIGN STANDARDS, AND OTHER SHEETS OF THESE CONSTRUCTION PLANS. THE FIRST SHEET OF THE CONSTRUCTION PLANS (CALLED THE KEY SHEET) CONTAINS AN INDEX TO THE OTHER SHEETS. THE COMPLETE STORMWATER POLLUTION PREVENTION PLAN INCLUDES SEVERAL ITEMS: THIS NARRATIVE DESCRIPTION, THE DOCUMENTS REFERENCED IN THIS NARRATIVE, THE CONTRACTOR'S APPROVED EROSION CONTROL PLAN REQUIRED BY SPECIFICATION SECTION 104, AND REPORTS OF INSPECTIONS MADE DURING CONSTRUCTION.

1.0 SITE DESCRIPTION:

1.A. NATURE OF CONSTRUCTION ACTIVITY:

THE PROJECT IS THE REPLACEMENT OF THE EXISTING TWO-LANE BRIDGE CARRYING DUETTE ROAD OVER THE EAST FORK OF THE MANATEE RIVER IN MYAKKA CITY, FLORIDA. THIS INVOLVES CONSTRUCTING ROADWAY SURFACE, GUTTER, UNDERGROUND STORM DRAIN SYSTEMS, AND STORMWATER MANAGEMENT FACILITIES. THE PROJECT EXTENSION IS APPROXIMATELY 0.38 MILES.

1.B. SEQUENCE OF MAJOR SOIL DISTURBING ACTIVITIES:

IN THE SEDIMENT AND EROSION CONTROL PLAN, THE CONTRACTOR SHALL PROVIDE A DETAILED SEQUENCE OF CONSTRUCTION FOR ALL CONSTRUCTION ACTIVITIES. THE CONTRACTOR SHALL FOLLOW THE SEQUENCE OF MAJOR ACTIVITIES DESCRIBED BELOW, UNLESS THE CONTRACTOR PROPOSES A DIFFERENT SEQUENCE THAT IS EQUAL OR BETTER AT CONTROLLING EROSION AND TRAPPING SEDIMENT AND IS APPROVED BY THE ENGINEER.

FOR EACH CONSTRUCTION PHASE, INSTALL PERIMETER CONTROLS AFTER CLEARING AND GRUBBING NECESSARY FOR INSTALLATION OF CONTROLS BUT BEFORE BEGINNING OTHER WORK FOR THE CONSTRUCTION PHASE. REMOVE PERIMETER CONTROLS ONLY AFTER ALL UPSTREAM AREAS ARE STABILIZED.

- CLEARING AND GRUBBING, EARTHWORK, AND STORM DRAIN CONSTRUCTION FOR THE OUTFALL FROM THE PONDS.
- CLEARING AND GRUBBING, EARTHWORK FOR POND CONSTRUCTION.
- STORM DRAIN AND ROADWAY UNDERDRAIN CONSTRUCTION. CONSTRUCT THE STORM DRAIN PIPE IN THE UPSTREAM DIRECTION.
- EARTHWORK ASSOCIATED WITH THE CONSTRUCTION OF ROADWAY, GRAVITY WALL, CURB, SUBGRADE, BASE, PAVEMENT, AND SIDEWALK.
- CONSTRUCT UNDERDRAIN IN POND BOTTOM.

1.A. AREA ESTIMATES:

TOTAL SITE AREA:	5.46 ACRES
TOTAL AREA TO BE DISTURBED:	5.46 ACRES

1.B. RUNOFF DATA:

RUNOFF COEFFIECIENTS:

BEFORE:	0.50
DURING:	VARIES FROM 0.50 TO 0.55
AFTER:	0.55

SOILS DATA: THE RESULTS OF THE SOIL BORINGS ALONG THE ROADWAY ARE SHOWN IN GEOTECHNICAL SERVICE REPORT. IN GENERAL THE SOILS ARE SANDS.

OUTFALL INFORMATION:

THERE ARE 1 OUTFALLS.

#1 DESCRIPTION: EAST FORK OF THE MANATEE RIVER.

LOCATION: LATITUDE	27° 32' 20.5"N, LONGITUDE, 82° 06' 13.1"W.
EST.DRAINAGE AREA SIZE:	5.46 ACRES
RECEIVING WATER NAME:	EAST FORK OF THE MANATEE RIVER.

1.A. SITE MAP:

THE CONSTRUCTION PLANS ARE BEING USED AS THE SITE MAPS. THE LOCATION OF THE REQUIRED INFORMATION IS DESCRIBED BELOW. THE SHEET NUMBERS FOR THE PLAN SHEETS REFERENCED ARE IDENTIFIED ON THE KEY SHEET OF THESE CONSTRUCTION PLANS.

*DRAINAGE PATTERNS: THE DRAINAGE BASIN DIVIDES AND FLOW DIRECTIONS ARE SHOWN ON THE DRAINAGE MAPS.

*APPROXIMATE SLOPES: THE SLOPES OF THE SITE CAN BE SEEN IN THE ROADWAY CROSS SECTION SHEETS AND THE PLAN-PROFILE SHEETS.

*AREAS OF SOIL DISTURBANCE: THE AREAS TO BE DISTURBED ARE INDICATED ON THE PLAN-PROFILE SHEETS, THE CROSS SECTION SHEETS, AND THE POND DETAIL SHEETS. ANY AREAS WHERE PERMANENT FEATURES ARE SHOWN TO BE CONSTRUCTED ABOVE OR BELOW GROUND WILL BE DISTURBED.

*AREAS NOT TO BE DISTURBED: ESSENTIALLY THE WHOLE PROJECT WILL BE DISTURBED DURING CONSTRUCTION.

*LOCATIONS OF TEMPORARY CONTROLS: THESE ARE SHOWN ON THE EROSION CONTROL SHEETS.

*WETLAND/SURFACE WATERS: WETLANDS ARE DESCRIBED IN THE PLANS.

1.A. RECEIVING WATERS:

SEE OUTFALL INFORMATION ABOVE FOR THE OUTFALL LOCATIONS AND RECEIVING WATER NAMES.

2.0 CONTROLS:

2.A. EROSION AND SEDIMENT CONTROLS:

THE CONTRACTOR SHALL REVIEW THE SITE SPECIFIC EROSION THE CONTRACTOR MAY ALSO BE REQUIRED TO MODIFY THE PLAN OR MATERIALS TO ADAPT TO SEASONAL VARIATIONS OR SITE CONDITIONS. CONTRACTOR WILL COMPLY WITH EROSION CONTROL PLANS. ANY MODIFICATION TO THIS PLANS MUST BE SIGNED BY A PROFESSIONAL ENGINEER REPRESENTING THE CONTRACTOR. CONTRACTOR SHALL REMOVE ALL SEDIMENT THAT HAS MIGRATED OFF-SITE. THE CONSTRUCTION ENGINEER IS RESPONSIBLE OF DETERMINE IF ADDITIONAL CONTROLS ARE NEEDED AND DEPLOYMENT SCHEDULES FOR THE IMPLEMENTATION OF ALL EROSION CONTROL DEVICES.

2.A.1 STABILIZATION PRACTICES:

IN THE SEDIMENT AND EROSION CONTROL PLAN, THE CONTRACTOR SHALL DESCRIBE THE STABILIZATION PRACTICES PROPOSED TO CONTROL EROSION. THE CONTRACTOR SHALL INITIATE ALL STABILIZATION MEASURES AS SOON AS PRACTICAL, BUT IN NO CASE MORE THAN 7 DAYS, IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED. THE STABILIZATION PRACTICES SHALL INCLUDE AT LEAST THE FOLLOWING, UNLESS OTHERWISE APPROVED BY THE ENGINEER.

TEMPORARY:

* ARTIFICIAL COVERINGS IN ACCORDANCE WITH SPECIFICATION SECTION 104.

* TURF AND SOD IN ACCORDANCE WITH SPECIFICATION SECTION 104.

PERMANENT:

* ASPHALT OR CONCRETE SURFACE.

* SOD IN ACCORDANCE WITH SPECIFICATION SECTION 570.

2.A.2 STRUCTURAL PRACTICES:

IN THE SEDIMENT AND EROSION CONTROL PLAN, THE CONTRACTOR SHALL DESCRIBE THE PROPOSED STRUCTURAL PRACTICES TO CONTROL OR TRAP SEDIMENT AND OTHERWISE PREVENT THE DISCHARGE OF POLLUTANTS FROM EXPOSED AREAS OF THE SITE. SEDIMENT CONTROLS SHALL BE IN PLACE BEFORE DISTURBING SOIL UPSTREAM OF THE CONTROL. THE STRUCTURAL PRACTICES SHALL INCLUDE AT LEAST THE FOLLOWING, UNLESS OTHERWISE APPROVED BY THE ENGINEER:

TEMPORARY:

* SEDIMENT BARRIERS IN ACCORDANCE WITH DESIGN STANDARD 102 AND SPECIFICATION SECTION 104.

* INLET PROTECTION IN ACCORDANCE WITH DESIGN STANDARD 102 AND SPECIAL DETAILS SHOWN IN THE TTC PLAN.



PERMANENT:

* STORMWATER PONDS.

* SOD.

2.B STORMWATER MANAGEMENT:

STORM DRAIN SYSTEMS WILL BE CONSTRUCTED TO CONVEY RUNOFF TO TWO (2) STORMWATER RETENTION / DETENTION PONDS.

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NO.	DESCRIPTION	DATE	BY				STORMWATER POLLUTION PREVENTION PLAN (1)	40
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2.C OTHER CONTROLS:

2.C.1 WASTE DISPOSAL:

IN THE SEDIMENT AND EROSION CONTROL PLAN, THE CONTRACTOR SHALL DESCRIBE THE PROPOSED METHODS TO PREVENT THE DISCHARGE OF SOLID MATERIALS, INCLUDING BUILDING MATERIALS, TO WATERS OF THE UNITED STATES. THE PROPOSED METHODS SHALL INCLUDE AT LEAST THE FOLLOWING, UNLESS OTHERWISE APPROVED BY THE ENGINEER:

* PROVIDING LITTER CONTROL AND COLLECTION WITHIN THE PROJECT DURING CONSTRUCTION ACTIVITIES.

* DISPOSING OF ALL FERTILIZER OR OTHER CHEMICAL CONTAINERS ACCORDING TO EPA'S STANDARD PRACTICES AS DETAILED BY THE MANUFACTURER.

* DISPOSING OF SOLID MATERIALS INCLUDING BUILDING AND CONSTRUCTION MATERIALS OFF THE PROJECT SITE BUT NOT IN SURFACE WATERS, OR WETLANDS.

2.C.2 OFF-SITE VEHICLE TRACKING & DUST CONTROL:

IN THE SEDIMENT AND EROSION CONTROL PLAN, THE CONTRACTOR SHALL DESCRIBE THE PROPOSED METHODS FOR MINIMIZING OFFSITE VEHICLE TRACKING OF SEDIMENTS AND GENERATING DUST. THE PROPOSED METHODS SHALL INCLUDE AT LEAST THE FOLLOWING, UNLESS OTHERWISE APPROVED BY THE ENGINEER.

* COVERING LOADED HAUL TRUCKS WITH TARPAULINS.

* REMOVING EXCESS DIRT FROM ROADS DAILY.

* STABILIZING CONSTRUCTION ENTRANCES ACCORDING TO DESIGN STANDARD 106.

* USING ROADWAY SWEEPERS DURING DUST GENERATING ACTIVITIES SUCH AS EXCAVATION AND MILLING OPERATIONS.

2.C.3 STATE AND LOCAL REGULATIONS FOR WASTE DISPOSAL, SANITARY SEWER, OR SEPTIC TANK REGULATIONS:

IN THE SECTION 104 EROSION CONTROL PLAN, THE CONTRACTOR SHALL DESCRIBE THE PROPOSED PROCEDURES TO COMPLY WITH APPLICABLE STATE AND LOCAL REGULATIONS FOR WASTE DISPOSAL, AND SANITARY SEWER OR SEPTIC SYSTEMS.

2.C.4 FERTILIZERS AND PESTICIDES:

IN THE SEDIMENT AND EROSION CONTROL PLAN, THE CONTRACTOR SHALL DESCRIBE THE PROCEDURES FOR APPLYING FERTILIZERS AND PESTICIDES. THE PROPOSED PROCEDURES SHALL COMPLY WITH APPLICABLE SUBSECTIONS OF SECTION 570 OF THE SPECIFICATIONS.

2.C.5 TOXIC SUBSTANCES:

IN THE SEDIMENT AND EROSION CONTROL PLAN, THE CONTRACTOR SHALL PROVIDE A LIST OF TOXIC SUBSTANCES THAT ARE LIKELY TO BE USED ON THE JOB AND PROVIDE A PLAN ADDRESSING THE GENERATION, APPLICATION, MIGRATION, STORAGE, AND DISPOSAL OF THESE SUBSTANCES.

2.D.4 APPROVED STATE AND LOCAL PLANS AND PERMITS:

* FDEP RULE CHAPTER 62-25 F.A.C.

3.0 MAINTENANCE:

IN THE SEDIMENT AND EROSION CONTROL PLAN, THE CONTRACTOR SHALL PROVIDE A PLAN FOR MAINTAINING ALL EROSION AND SEDIMENT CONTROLS THROUGHOUT CONSTRUCTION. THE MAINTENANCE PLAN SHALL AT A MINIMUM, COMPLY WITH THE FOLLOWING:

* SILT FENCE: MAINTAIN PER SECTION 104. THE CONTRACTOR SHOULD ANTICIPATE REPLACING SILT FENCE ON 12 MONTH INTERVALS.

* SEDIMENT BARRIERS: REMOVE SEDIMENT AS PER MANUFACTURER'S RECOMMENDATIONS OR WHEN WATER PONDS IN UNACCEPTABLE AMOUNTS OR AREAS.

* PONDS 100 AND 200: THE PONDS ARE TEMPORARY SEDIMENT BASINS UNTIL THE AREAS THAT DRAIN TO THEM ARE STABILIZED, SO UNTIL THEN, REMOVE SEDIMENT FROM THE POND WHEN IT BECOMES 1.5' DEEP AT ANY POINT.

4.0 INSPECTIONS:

QUALIFIED PERSONNEL SHALL INSPECT THE FOLLOWING ITEMS AT LEAST ONCE EVERY SEVEN CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A STORM THAT IS 0.50 INCHES OR GREATER. TO COMPLY, THE CONTRACTOR SHALL INSTALL AND MAINTAIN RAIN GAUGES AND RECORD THE DAILY RAINFALL. WHERE SITES HAVE BEEN PERMANENTLY STABILIZED, INSPECTIONS SHALL BE CONDUCTED AT LEAST ONCE EVERY MONTH. THE CONTRACTOR SHALL ALSO INSPECT THAT CONTROLS INSTALLED IN THE FIELD AGREE WITH THE LATEST STORMWATER POLLUTION PREVENTION PLAN.

* POINTS OF DISCHARGE TO WATERS OF THE UNITED STATES.

* POINTS OF DISCHARGE TO MUNICIPAL SEPARATE STORM DRAIN SYSTEMS.

* DISTURBED AREAS OF THE SITE THAT HAVE NOT BEEN FINALLY STABILIZED.

* AREAS USED FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION.

* STRUCTURAL CONTROLS.

* STORMWATER MANAGEMENT SYSTEMS.



* LOCATIONS WHERE VEHICLES ENTER OR EXIT THE SITE.

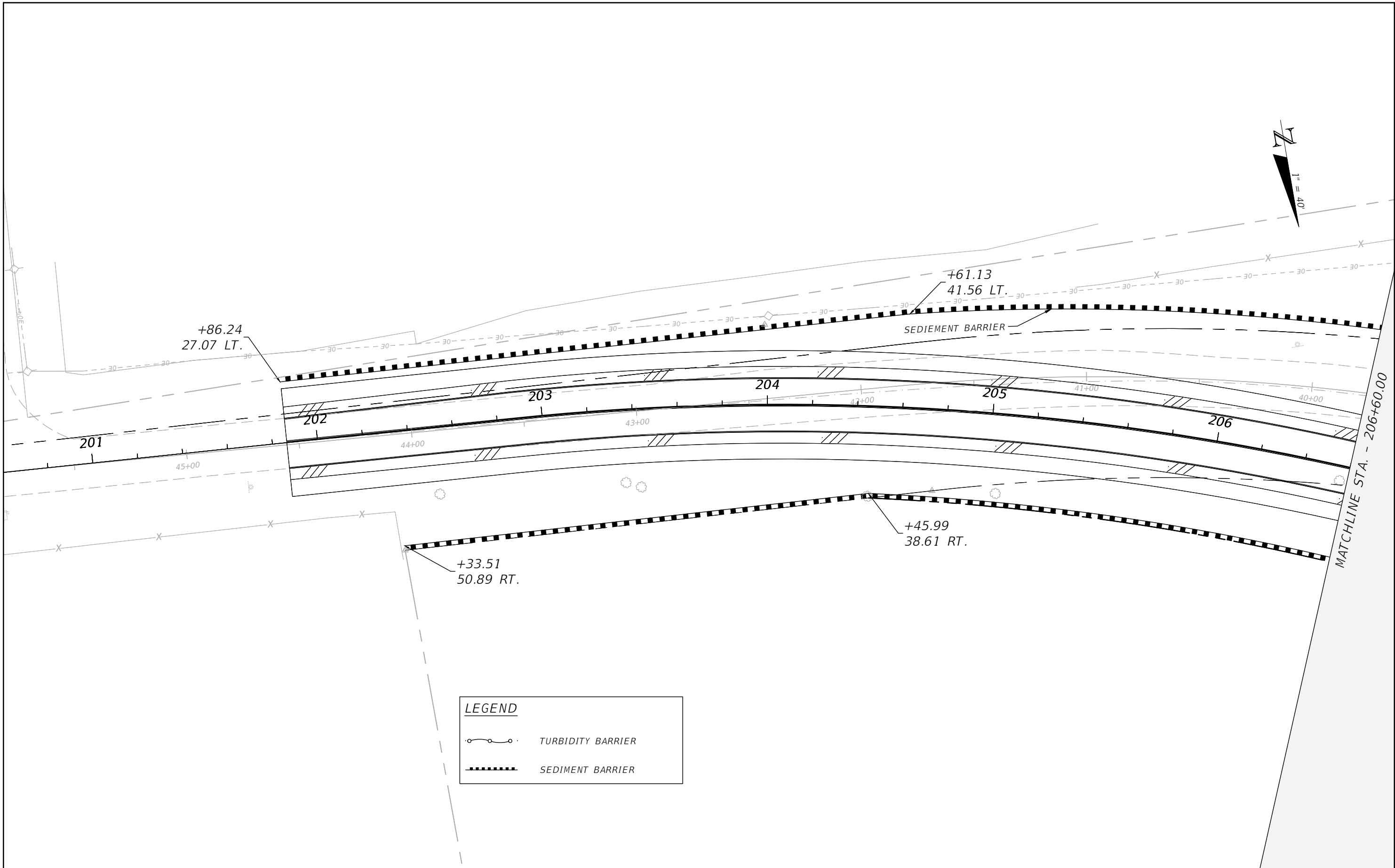
THE CONTRACTOR SHALL INITIATE REPAIRS WITHIN 24 HOURS OF INSPECTIONS THAT INDICATE ITEMS ARE NOT IN GOOD WORKING ORDER.

IF INSPECTIONS INDICATE THAT THE INSTALLED STABILIZATION AND STRUCTURAL PRACTICES ARE NOT SUFFICIENT TO MINIMIZE EROSION, RETAIN SEDIMENT, AND PREVENT DISCHARGING POLLUTANTS, THE CONTRACTOR SHALL PROVIDE ADDITIONAL MEASURES, AS APPROVED BY THE ENGINEER.


5.0 NON-STORMWATER DISCHARGES:

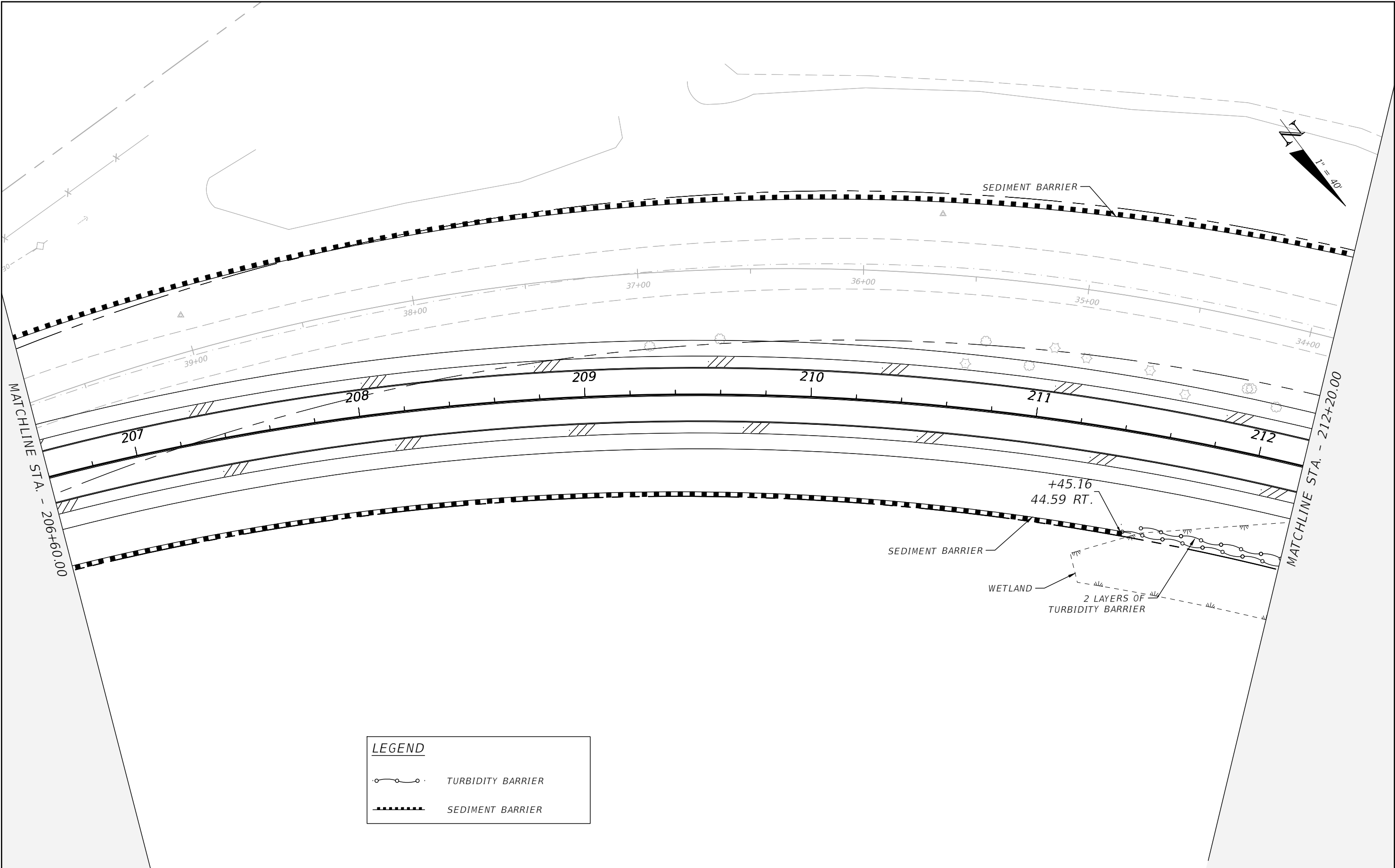
IN THE SECTION 104 EROSION CONTROL PLAN, THE CONTRACTOR SHALL IDENTIFY ALL ANTICIPATED NON-STORMWATER DISCHARGES (EXCEPT FLOWS FROM FIRE FIGHTING ACTIVITIES). THE CONTRACTOR SHALL DESCRIBE THE PROPOSED MEASURES TO PREVENT POLLUTION OF THESE NON-STORMWATER DISCHARGES. IF THE CONTRACTOR ENCOUNTERS CONTAMINATED SOIL OR GROUNDWATER, CONTACT _____


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NO.	DESCRIPTION	DATE	BY				STORMWATER POLLUTION PREVENTION PLAN (2)	41
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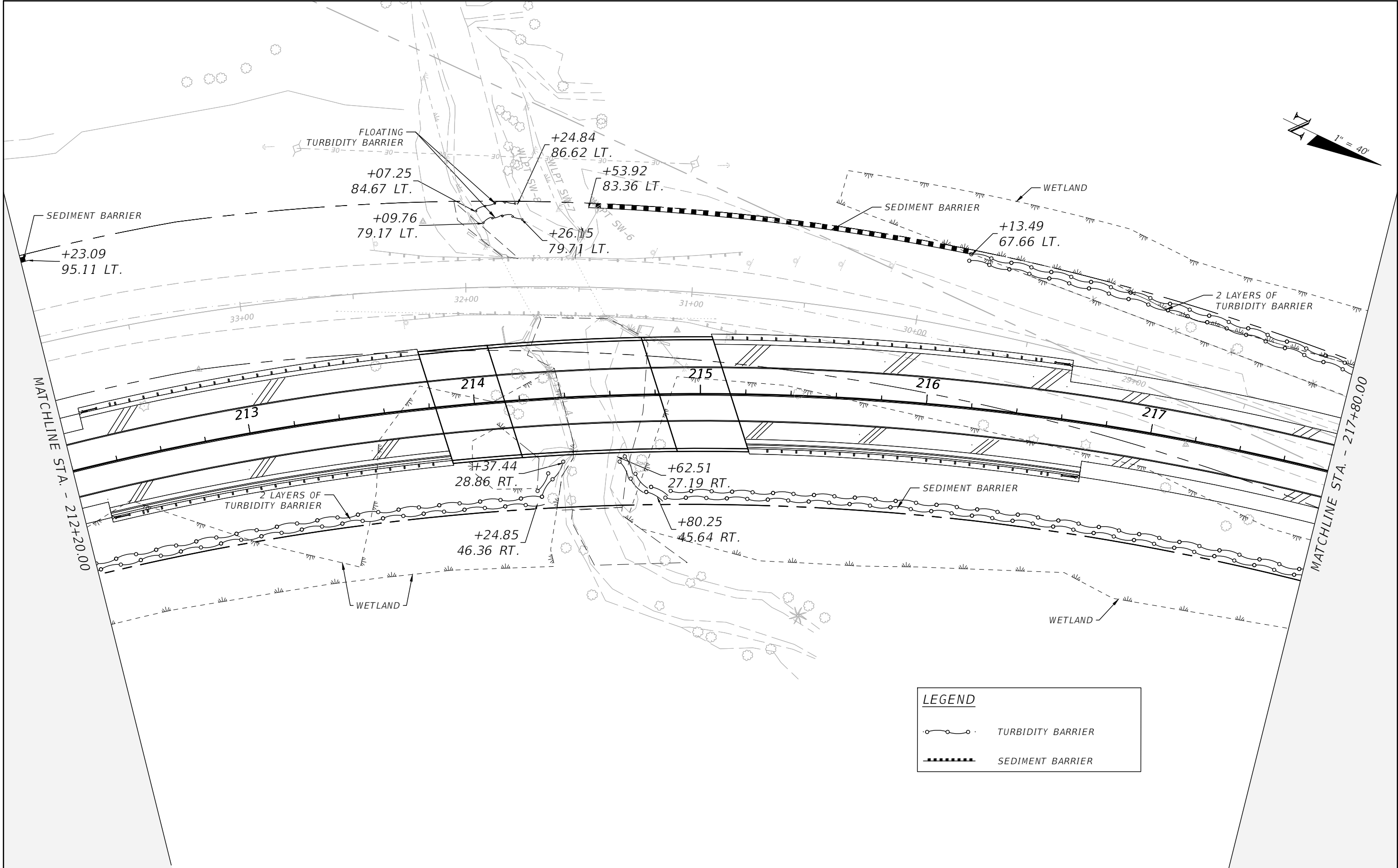


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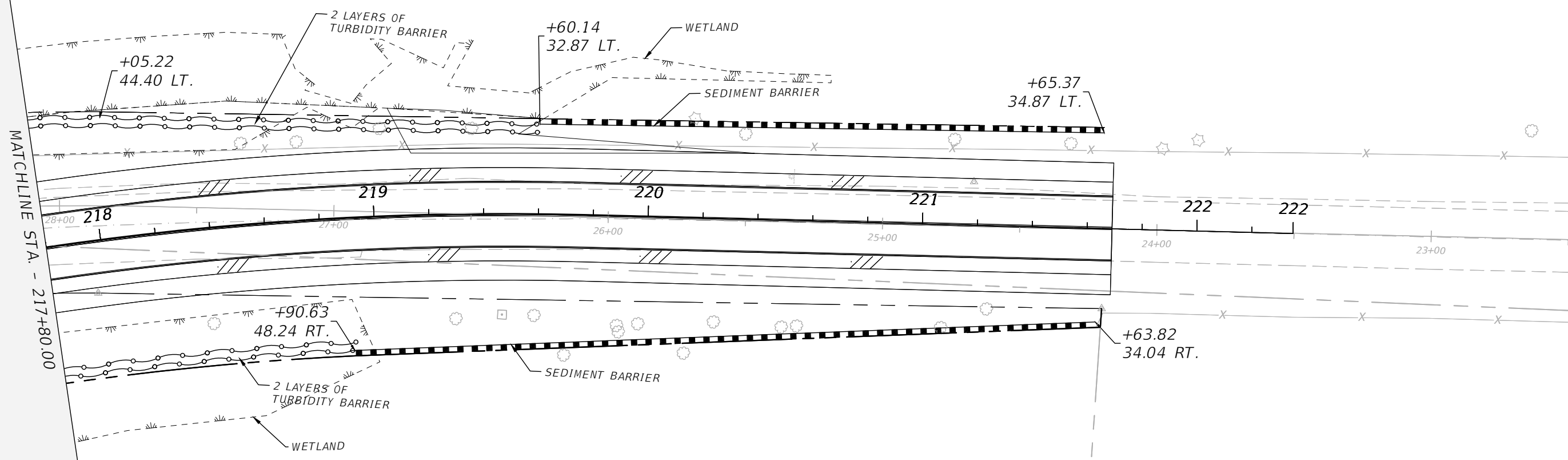
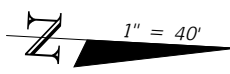


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LEGEND

TURBIDITY BARRIER

SEDIMENT BARRIER

REVISIONS			
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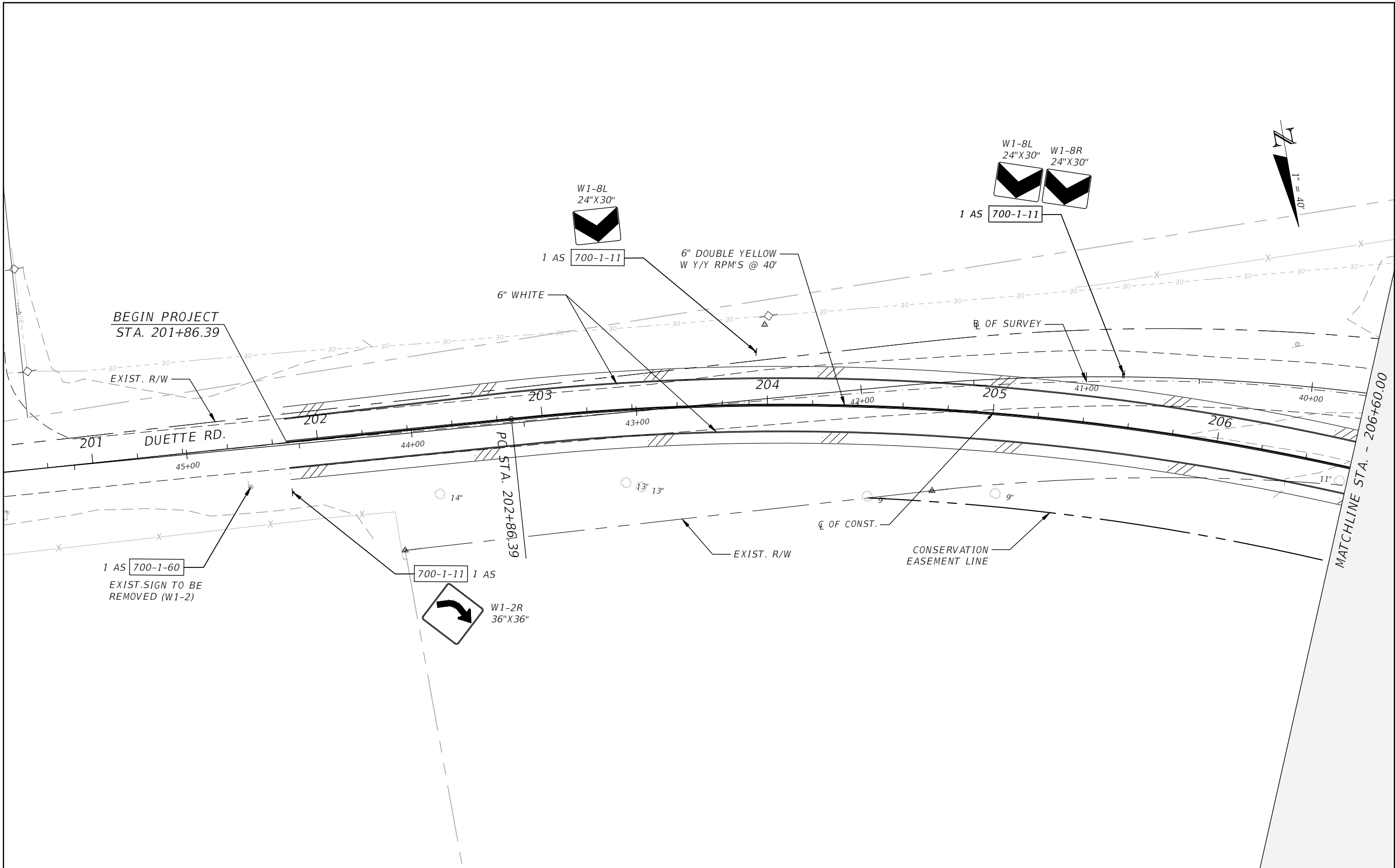
DUETTE ROAD BRIDGE REPLACEMENT

EROSION CONTROL PLAN (4)



SHEET NO.

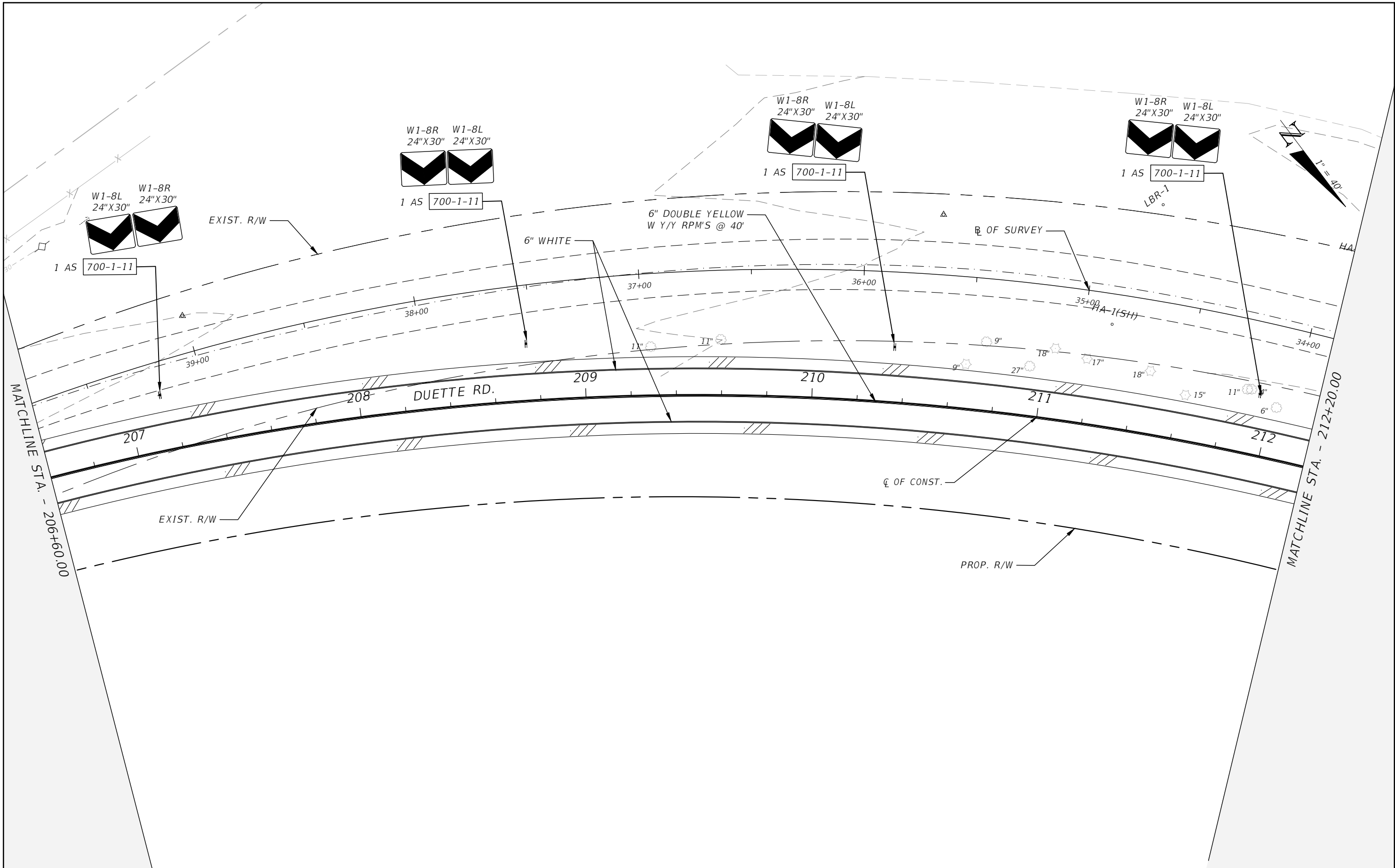
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(727) 531-3505

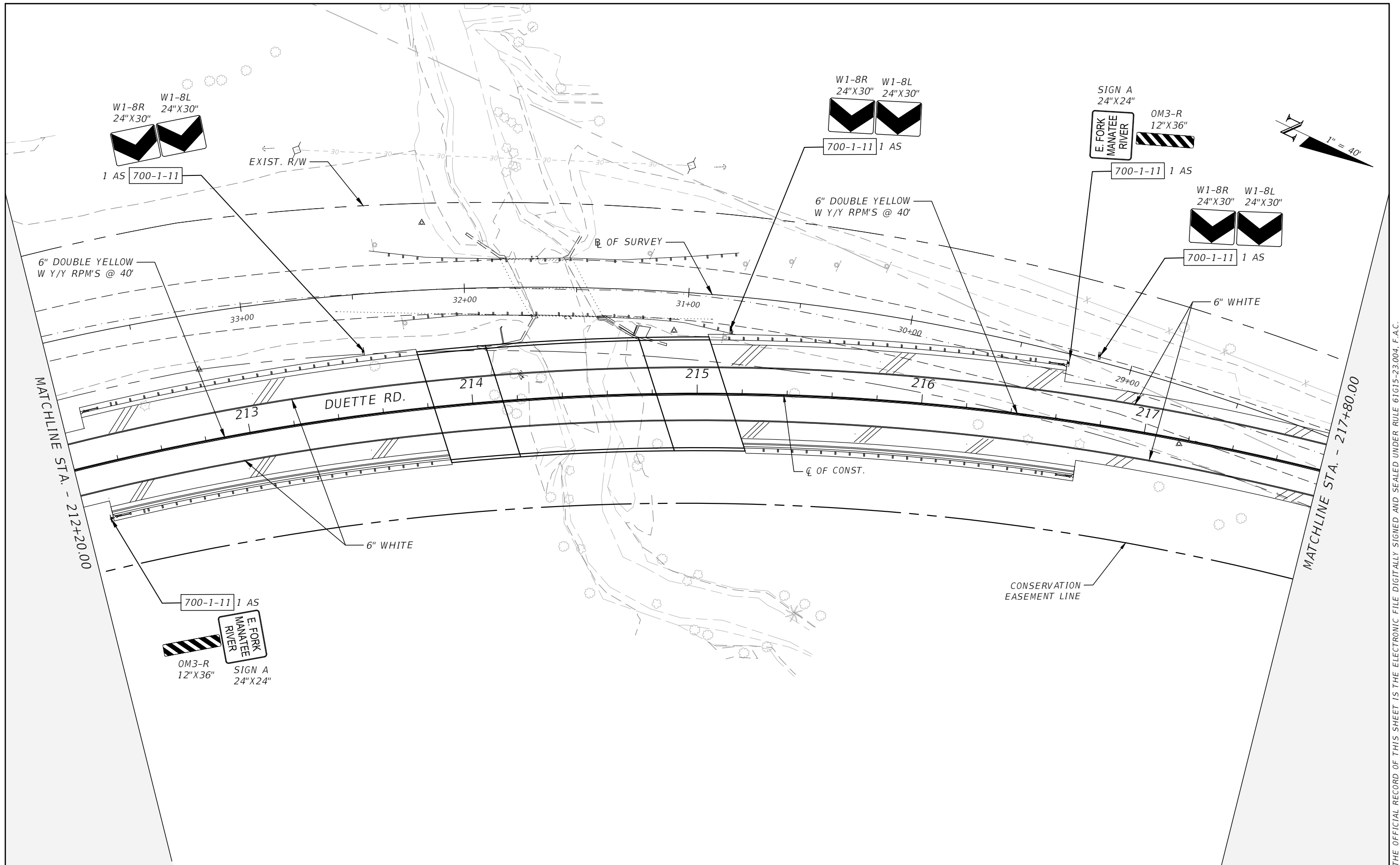


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DUETTE ROAD BRIDGE REPLACEMENT

SIGNING AND PAVEMENT
MARKINGS PLAN (2)

SHEET NO.
47



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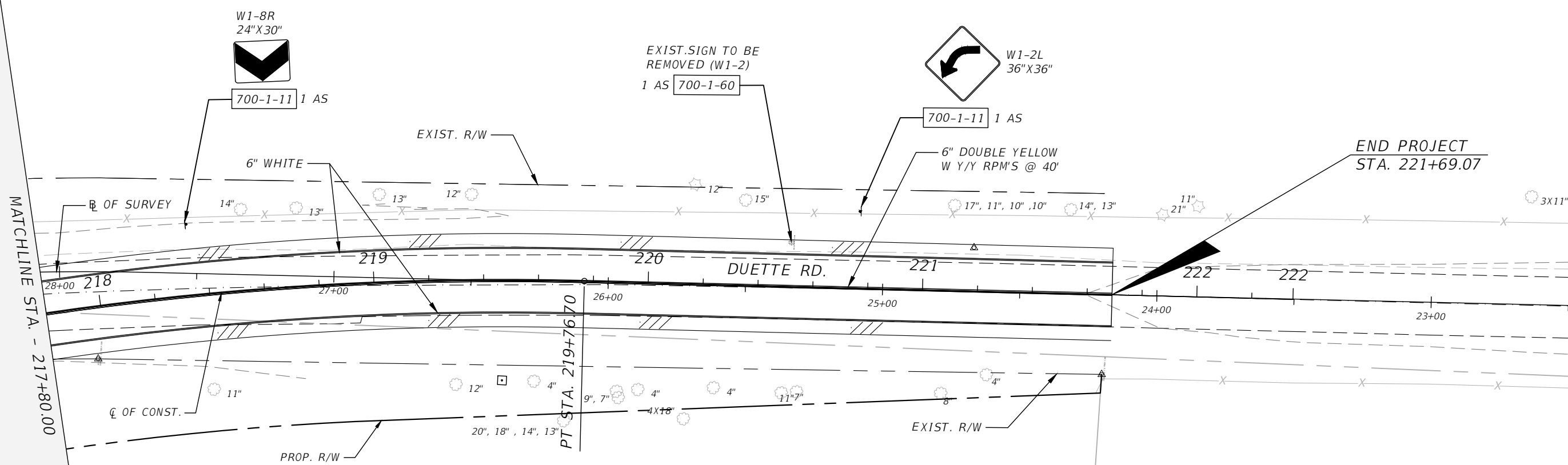
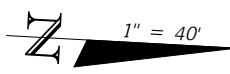


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DUETTE ROAD BRIDGE REPLACEMENT
 SIGNING AND PAVEMENT
 MARKINGS PLAN (3)

SHEET
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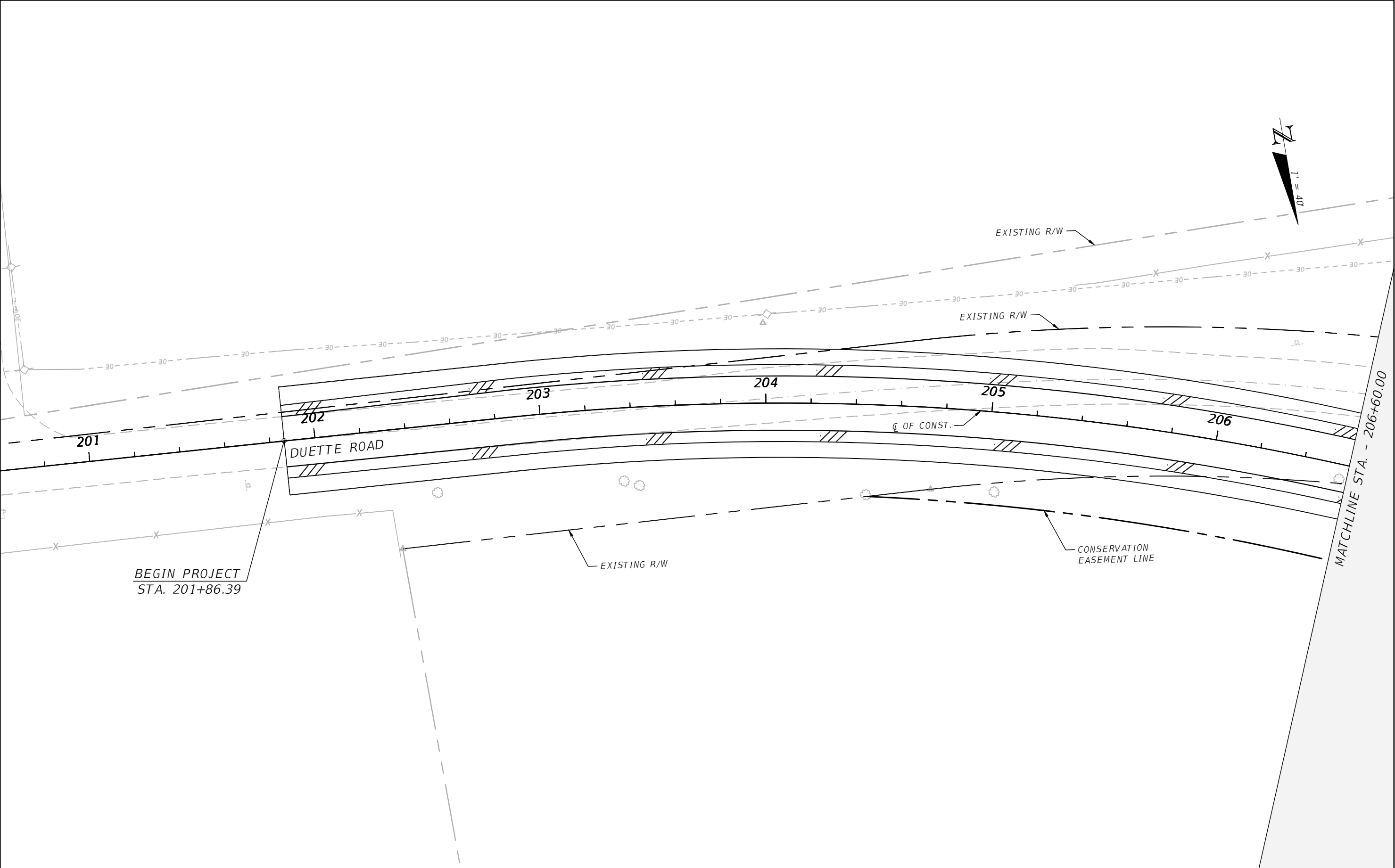
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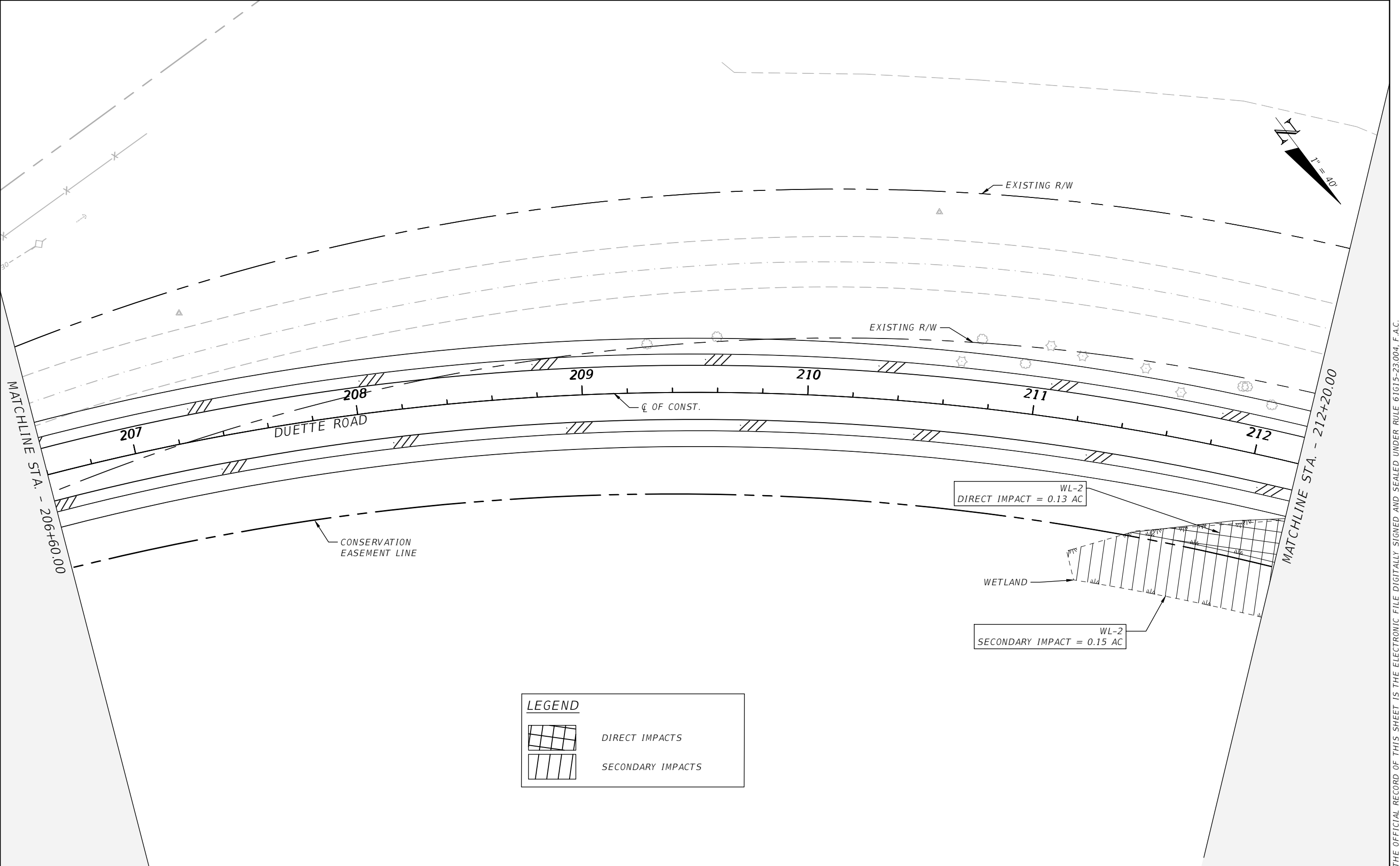
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SIGNING AND PAVEMENT
MARKINGS PLAN (4)

SHEET
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NO.	DESCRIPTION	DATE	BY				WETLAND IMPACTS (1)	50



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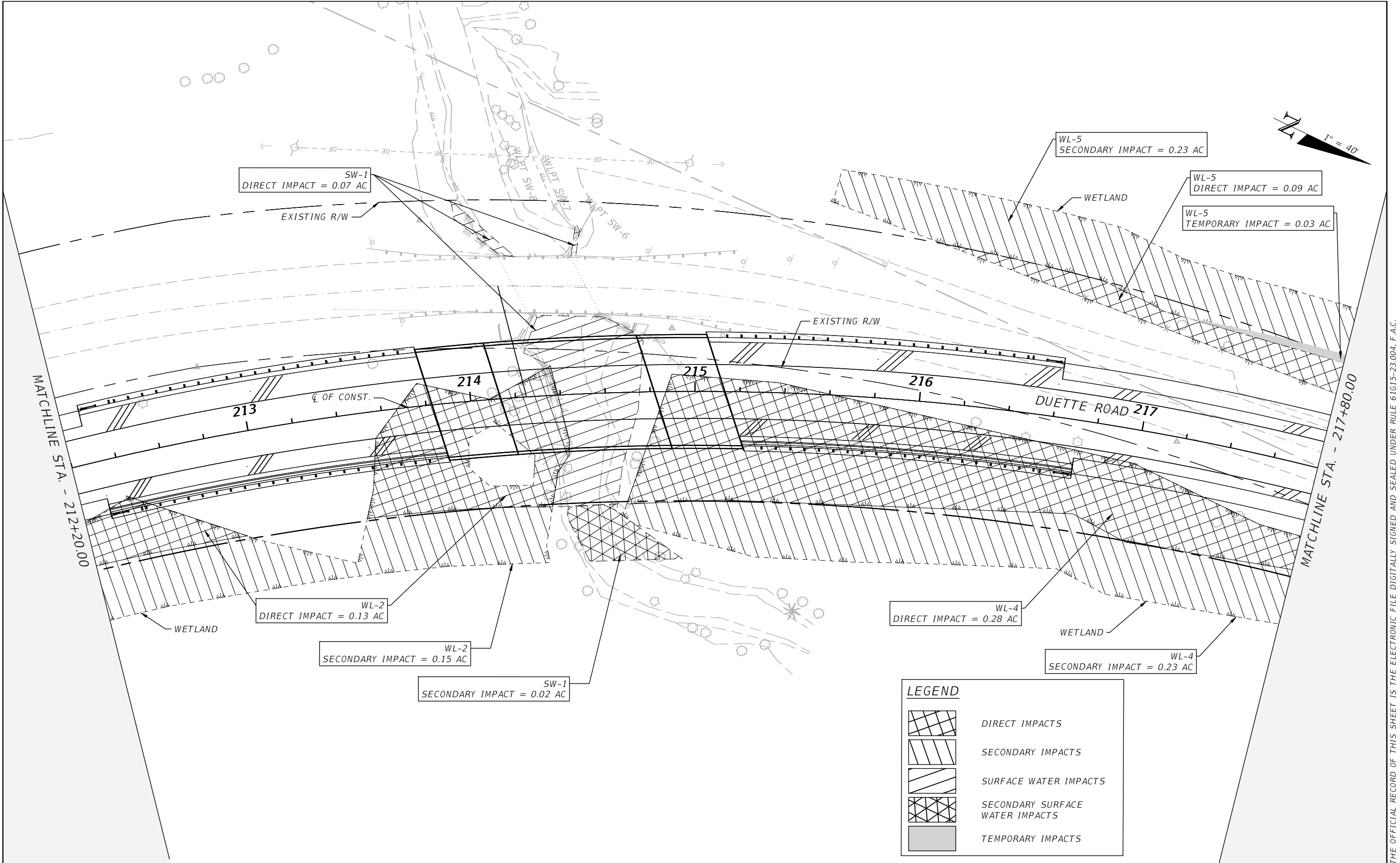
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MANATEE COUNTY
PUBLIC WORKS
COUNTY PROJECT NO:
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DUETTE ROAD BRIDGE REPLACEMENT
WETLAND IMPACTS (2)

SHEET NO.
51



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MANATEE COUNTY
PUBLIC WORKS
COUNTY PROJECT NO:
6104760

DUETTE ROAD BRIDGE REPLACEMENT

WETLAND IMPACTS (3)

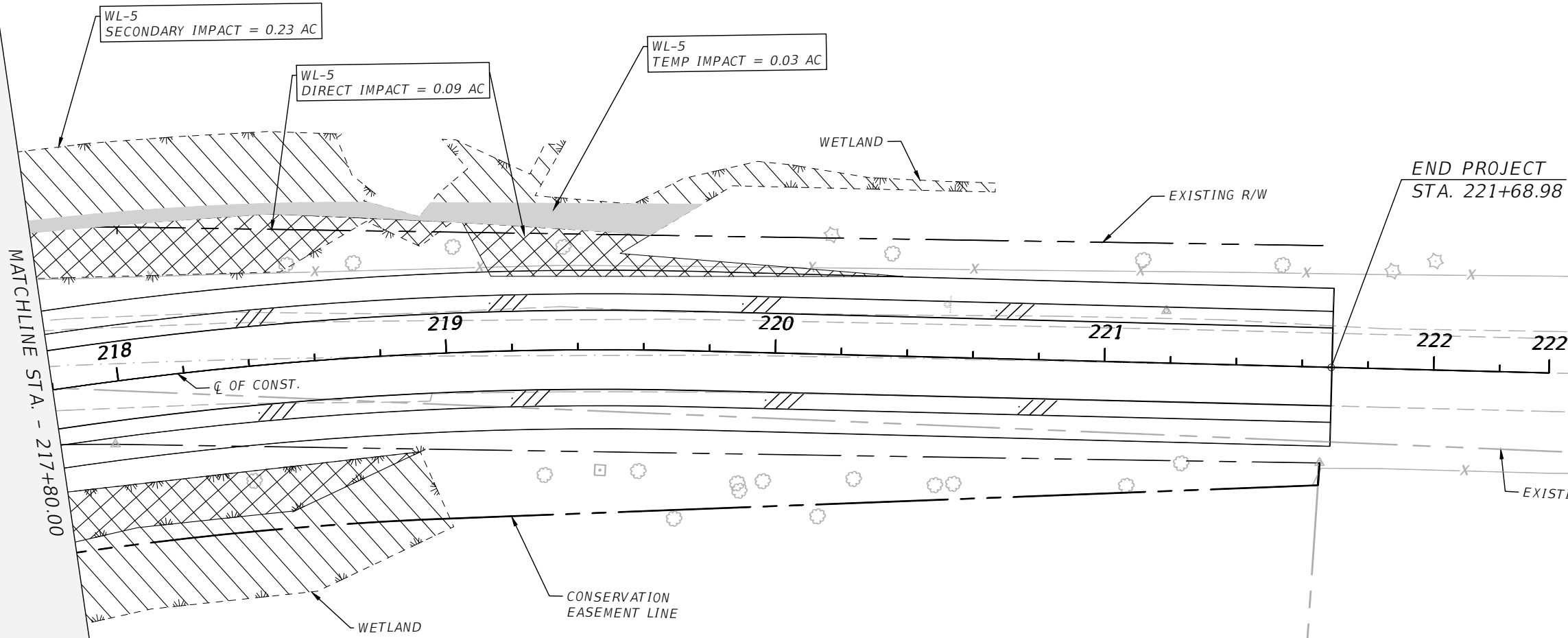
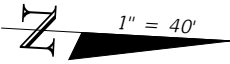
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Temporary Impact Area Planting Plan - 0.03 acres

Common Name	Scientific Name	Size	Spacing	Quantity
Groundcover				
Muhly grass	Muhlenbergia capillaris	1 G	3' OC	37
Sand Cordgrass	Saprtina bakeri	1 G	3' OC	37
Soft Rush	Juncus effusus	1 G	3' OC	37
Swamp Fern	Telmatoblechnum serrulatum	1 G	3' OC	37

G = Gallon, OC = On Center



LEGEND

	DIRECT IMPACTS
	SECONDARY IMPACTS
	TEMPORARY IMPACTS

REVISIONS			
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DUETTE ROAD BRIDGE REPLACEMENT

WETLAND IMPACTS (4)

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