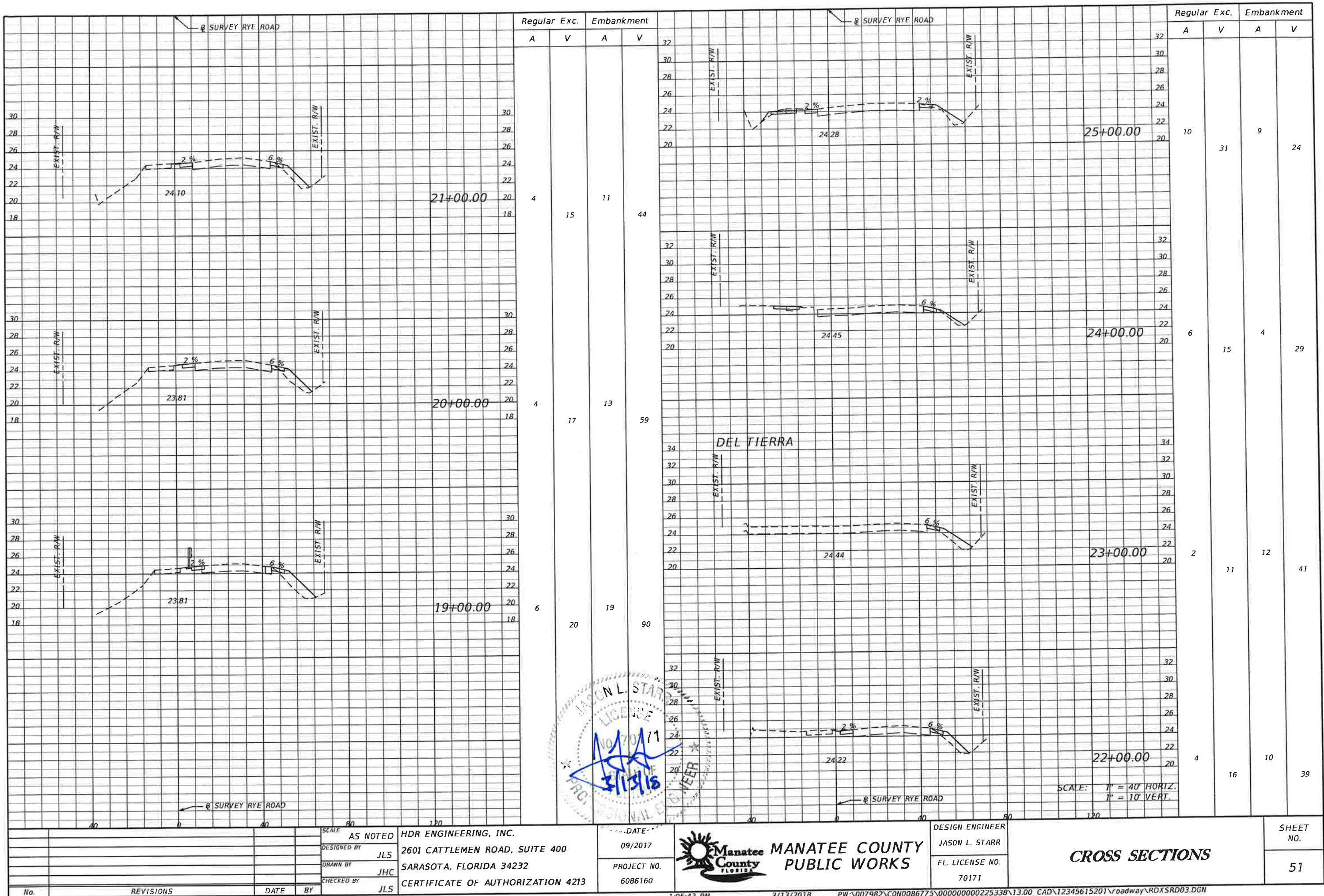
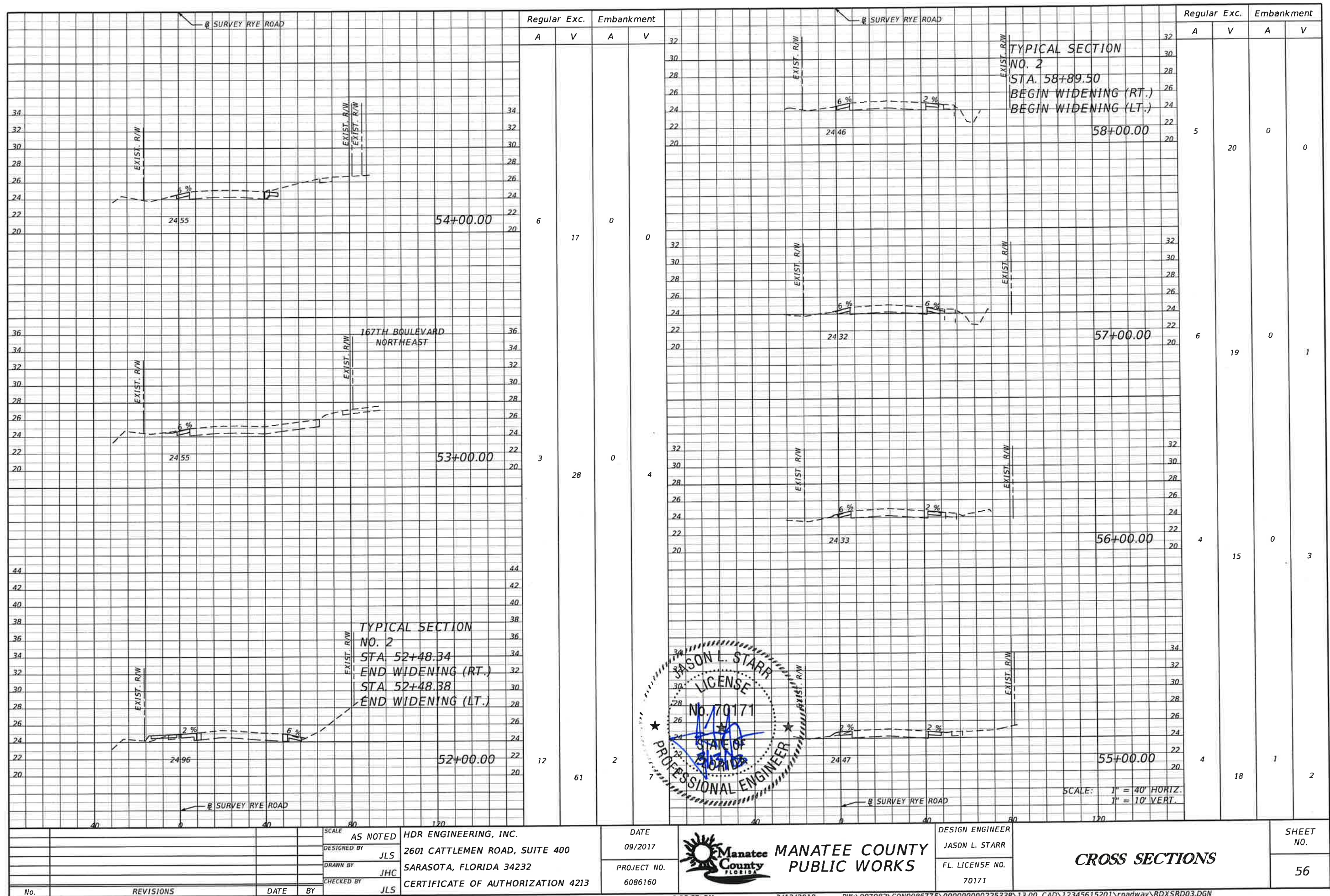






GENERAL

THE FOLLOWING NARRATIVE OF THE STORMWATER POLLUTION PREVENTION PLAN (SWPPP) CONTAINS REFERENCES TO THE FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, THE FDOT DESIGN STANDARDS, THE STATE OF FLORIDA EROSION AND SEDIMENT CONTROL DESIGNER AND REVIEWER MANUAL, AND OTHER SHEETS OF THESE CONSTRUCTION PLANS.

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.
HAZARDOUS MATERIALS SPILL CONTROL PLAN

THE CONTRACTOR IS RESPONSIBLE FOR SUBMITTING THESE ITEMS TO FDEP IN ORDER FOR THE NPDES PERMIT TO BE PROCESSED. ALL COSTS OF DOCUMENT PREPARATION SHALL BE PAID FOR UNDER THE COST OF THE MOBILIZATION PAY ITEM.

THE CONTRACTOR MAY ELECT TO SUBMIT A REVISED SWPPP THAT IS IN COMPLIANCE WITH THE STORM WATER REGULATIONS AT 40 CFR 122.26(B)(14) AND STATE WATER QUALITY STANDARDS. THE CONTRACTOR'S MODIFIED SWPPP MUST RECEIVE APPROVAL FROM THE COUNTY ENGINEER PRIOR TO IMPLEMENTATION.

THIS INFORMATION SHOULD BE SUBMITTED TO THE COUNTY THIRTY DAYS PRIOR TO ANY CLEARING AND GRUBBING ACTIVITIES. NO SOIL DISTURBING ACTIVITIES CAN BE CONDUCTED UNTIL THE NPDES PACKAGE HAS BEEN SUBMITTED TO THE FDEP.

I. SITE DESCRIPTION:

- (1) NATURE OF CONSTRUCTION ACTIVITY
MANATEE COUNTY PROPOSES TO MILL & RESURFACE AND WIDEN APPROXIMATELY 2.8 MILES OF RYE ROAD TO A MINIMUM OF 24 FT WIDE. PAVED SHOULDERS ARE PROPOSED FOR THE PROJECT LENGTH AND A LEFT TURN LANE IS PROPOSED AT THE INTERSECTION WITH WATERLINE ROAD. NO CULVERTS OR BRIDGES SHALL BE EXTENDED.
- (2) SEQUENCE OF MAJOR SOIL DISTURBING ACTIVITIES:

(a) THE CONTRACTOR SHALL BE REQUIRED TO PREPARE A SITE SPECIFIC EROSION AND SEDIMENT CONTROL PLAN ALONG WITH A DETAILED CONSTRUCTION SCHEDULE TO INDICATE DATES OF MAJOR GRADING ACTIVITIES AND DETERMINE SEQUENCES OF TEMPORARY AND PERMANENT SOIL DISTURBING ACTIVITIES ON ALL PORTIONS OF THE PROJECT.

(b) THE CONTRACTOR WILL BE REQUIRED TO MODIFY THE PLAN OR MATERIALS TO ADAPT TO SEASONAL VARIATIONS, CONSTRUCTION ACTIVITY VARIATIONS, OR AS DIRECTED BY THE ENGINEER.

(c) APPLICABLE EROSION AND SEDIMENT CONTROL DEVICES AND IMPLEMENTATION PROCEDURES ARE SUPPLIED IN THE STATE OF FLORIDA EROSION AND SEDIMENT CONTROL DESIGNER AND REVIEW MANUAL (E&SC MANUAL).

(d) THE ENGINEER IS RESPONSIBLE FOR DETERMINING IF ANY MODIFICATIONS OR ADDITIONAL CONTROLS ARE REQUIRED AND TO OBTAIN DEPLOYMENT SCHEDULES FOR THE IMPLEMENTATION OF ALL ADDITIONAL EROSION AND SEDIMENT CONTROL DEVICES FROM THE CONTRACTOR.
- (3) GENERAL NOTES:

(a) ALL EROSION AND SEDIMENT CONTROL DEVICES FOR EACH PHASE OF WORK ARE TO BE INSTALLED PRIOR TO BEGINNING WORK ON THAT PHASE.

(b) INSTALL EROSION AND SEDIMENT CONTROL DEVICES WHERE LISTED IN THE CONTRACTOR'S APPROVED EROSION AND SEDIMENT CONTROL PLAN FOR PERIMETER CONTROLS BEFORE THE LAND IS DISTURBED.

(c) PROVIDE SEDIMENT BARRIERS WHERE LISTED IN THE CONTRACTOR'S APPROVED EROSION AND SEDIMENT CONTROL PLAN FOR DITCH/SWALE CHECK DAMS DURING CONSTRUCTION.

(d) PROVIDE INLET PROTECTION SYSTEMS AT INLET OPENINGS.

(e) COVER OR STABILIZE DISTURBED AREAS AS SOON AS POSSIBLE.

(f) DO NOT DISTURB AN AREA UNTIL IT IS NECESSARY FOR CONSTRUCTION TO PROCEED.

(g) TIME CONSTRUCTION ACTIVITIES TO LIMIT IMPACT FROM SEASONAL CLIMATE CHANGES OR WEATHER EVENTS.

(h) DO NOT REMOVE PERIMETER CONTROLS UNTIL ALL UPSTREAM AREAS ARE FULLY STABILIZED AND PERMANENT VEGETATION IS ESTABLISHED.
- (4) PROJECT AREAS:
THE ESTIMATED TOTAL PROJECT AREA IS 34.84 ACRES. THE ESTIMATED AREA TO BE DISTURBED DURING CONSTRUCTION ACTIVITIES IS 23.41 ACRES.
- (5) RUNOFF COEFFICIENTS BEFORE Cw (B), DURING Cw (D) AND AFTER Cw (A) CONSTRUCTION:
RUNOFF COEFFICIENT FOR: GRASSED SHOULDERS ADJACENT TO ROADWAY: C=0.35
IMPERVIOUS ROADWAYS AND PAVED SHOULDER: C=0.95
DISTURBED AREAS, EXPOSED SOIL, ETC., DURING CONSTRUCTION: C=0.40
WEIGHTED RUNOFF COEFFICIENT:
BEFORE: Cw (B) = 0.42 DURING: Cw (D) = 0.50 AFTER: Cw (A) = 0.68
THE RUNOFF COEFFICIENT DURING CONSTRUCTION, Cw (D), IS CALCULATED ASSUMING THAT THE MAXIMUM ALLOWABLE AREA OF SOIL IS DISTURBED DURING CONSTRUCTION AND THE REMAINING AMOUNT IS THE EXISTING IMPERVIOUS AND GRASSED SHOULDER AREAS.
- (6) DESCRIPTION OF SOIL OR QUALITY OF DISCHARGE:
THE SOILS WITHIN THE PROJECT AREA ARE PRIMARILY COMPOSED OF 20 - EAU GALLIE FINE SAND WITH ADDITIONAL SEGMENTS OF 48 - WABASSO FINE SAND, 11 - CASSIA FINE SAND, 26 - FLORIDANA-IMMOKALEE-OKEELANTA ASSOCIATION, AND 3 - BRADEN FINE SAND ACCORDING TO THE NATURAL RESOURCES CONSERVATION SERVICE (NRCS).

- (7) ESTIMATED DRAINAGE FLOW DIRECTION AND AVERAGE SLOPE OF DRAINAGE AREA FOR EACH OUTFALL:

(a) SITE MAP: THE CONSTRUCTION PLANS ARE BEING USED AS THE SITE MAP.

(b) DRAINAGE PATTERNS: THE DRAINAGE PATTERNS AND GENERAL FLOW DIRECTIONS ARE SHOWN ON THE PLAN SHEETS AND CROSS SECTIONS.

(c) APPROXIMATE SLOPES: THE EXISTING AND PROPOSED SLOPES WITHIN THE PROJECT LIMITS ARE DEPICTED IN THE CROSS SECTIONS AND ON THE TYPICAL SECTION SHEETS.
- (8) RECEIVING WATERS:
MILL CREEK
MANATEE RIVER BELOW DAM
- (9) THE MILL CREEK OUTFALLS ARE 303(d) LISTED, IMPAIRED WATERS FOR NUTRIENTS AND DISSOLVED OXYGEN AND FECAL COLIFORM. MANATEE RIVER BELOW DAM IS IMPAIRED FOR FECAL COLIFORM ONLY.
- (10) OUTFALL LOCATIONS: (PERMANENT)

	DESCRIPTION	LATITUDE	LONGITUDE
(a)	(1) 106" X 68" PIPE	N 27° 29' 00"	W 82° 24' 12"
(b)	(1) 24" PIPE	N 27° 29' 15"	W 82° 23' 53"
(c)	(2) 48" PIPE	N 27° 29' 24"	W 82° 23' 41"
(d)	(1) 30' BRIDGE	N 27° 29' 36"	W 82° 23' 25"
(e)	(1) 38" X 24" PIPE	N 27° 29' 48"	W 82° 23' 09"
(f)	(1) 43' BRIDGE	N 27° 29' 55"	W 82° 22' 58"

- (11) WETLAND AND/OR SURFACE WATER IMPACTS ASSOCIATED WITH THIS PROJECT ARE LESS THAN 0.1 ACRES.
- (12) DESCRIPTION OF STORMWATER MANAGEMENT: (EXISTING/PROPOSED)

(a) EXISTING DRAINAGE FLOWS ARE TYPICALLY THROUGH ROADSIDE DITCHES TO BRIDGE CULVERTS.

(b) OFF-SITE RUNOFF SHOULD BE DIVERTED AWAY OR THROUGH THE CONSTRUCTION AREA, IF POSSIBLE. THIS ADDITIONAL FLOW, IF NOT DIVERTED, CAN ADD VOLUME AND SIZE TO STRUCTURAL PRACTICES, REQUIRING MORE FREQUENT MAINTENANCE AND LIMITING EFFECTIVENESS OF EROSION AND SEDIMENT CONTROLS.

(c) THE CONTRACTOR WILL PROVIDE POLLUTION CONTROL BY IMPLEMENTING DUST CONTROL DURING ALL PHASES OF CONSTRUCTION. SEDIMENT CONTROL WILL BE ACCOMPLISHED BY USING STREET OR VACUUM SWEEPERS.

(d) THE CONTRACTOR SHALL TAKE ALL REASONABLE PRECAUTIONS TO PREVENT UNAUTHORIZED MATERIALS FROM ENTERING WETLANDS, WATERWAYS, OTHER SURFACE WATERS OR WATERS OF THE U.S.

II. CONTROLS:
SEDIMENT AND EROSION CONTROLS

- (1) WATER QUALITY MONITORING:

(a) WATER QUALITY MONITORING SHALL BE CONDUCTED IN ACCORDANCE WITH THE SPECIAL CONDITIONS OF ANY ENVIRONMENTAL PERMIT OR BY THE CONTRACTOR UPON THE OBSERVATION THAT WATER QUALITY STANDARDS MAY BE VIOLATED BY THE CONTRACTOR'S ACTIVITIES. MONITORING LOCATIONS MAY BE SPECIFIED IN THE ENVIRONMENTAL PERMIT OR MAY BE DESIGNATED BY THE CONTRACTOR AND APPROVED BY THE PROJECT ADMINISTRATOR.

(b) THE PROJECT ADMINISTRATOR WILL BE RESPONSIBLE FOR MONITORING ANY ACTIVITIES FOR VIOLATION OF WATER QUALITY STANDARDS AS THEY RELATE TO TURBIDITY (NO GREATER THAN 29 NTU'S ABOVE BACKGROUND OR GREATER THAN 0 NTU'S ABOVE BACKGROUND FOR DIRECT DISCHARGES TO OFW'S).

(c) IF WATER QUALITY STANDARDS ARE VIOLATED, CONSTRUCTION SHALL BE STOPPED IMMEDIATELY, THE ENVIRONMENTAL PERMIT CONDITIONS FOLLOWED AND EROSION AND SEDIMENT CONTROL DEVICES REEVALUATED AND APPROVED BY THE ENGINEER PRIOR TO ANY CONTINUATION OF ACTIVITY. MONITORING ACTIVITIES AND TURBIDITY READINGS SHALL BE RECORDED ON THE CONSTRUCTION INSPECTION REPORT AND CONTINUED UNTIL TURBIDITY READINGS FALL BELOW AN ACCEPTABLE LEVEL (LESS THAN 29 NTU'S ABOVE BACKGROUND OR LESS THAN 0 NTU'S ABOVE BACKGROUND FOR DIRECT DISCHARGES TO OFW'S).
- WATER QUALITY MONITORING MAY BE CONDUCTED DURING ANY PHASE OF CONSTRUCTION AS DIRECTED BY THE PROJECT ENGINEER.



				SCALE: AS NOTED	HDR ENGINEERING, INC.	DATE: 09/2017	 MANATEE COUNTY PUBLIC WORKS	DESIGN ENGINEER: JASON L. STARR	STORMWATER POLLUTION PREVENTION PLAN NOTES (1)	SHEET NO.	
				DESIGNED BY: JLS	2601 CATTLEMEN ROAD, SUITE 400	PROJECT NO. 6086160		FL. LICENSE NO. 70171		59	
				DRAWN BY: JHC	SARASOTA, FLORIDA 34232						
				CHECKED BY: JLS	CERTIFICATE OF AUTHORIZATION 4213						
No.	REVISIONS	DATE	BY								

(2) STABILIZATION PRACTICES:

- (a) STABILIZATION MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO MAINTAINING, ESTABLISHING AND USING VEGETATION, APPLYING MULCHES, SODDING, SEEDING, BEST MANAGEMENT PRACTICE (BMP)'S AND THE USE OF ROLLED EROSION CONTROLLED PRODUCTS. WHEN CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, SIDE SLOPES SHALL BE STABILIZED WITH PERFORMANCE SODDING OR SEEDING OR ANY OTHER APPROVED METHOD OF STABILIZATION INCLUDED IN THE STATE OF FLORIDA EROSION AND SEDIMENT CONTROL DESIGNER AND REVIEW MANUAL (E&SC MANUAL).
- (b) STABILIZATION SHALL TAKE PLACE AS SOON AS PRACTICAL IN PORTIONS OF THE PROJECT WHERE CONSTRUCTION ACTIVITIES HAVE CEASED, BUT NO LATER THAN 7 DAYS AFTER ANY CONSTRUCTION ACTIVITY CEASES EITHER TEMPORARILY OR PERMANENTLY.
- (c) ALL EROSION CONTROL DEVICES SHALL BE INSTALLED ACCORDING TO THE CONTRACT DOCUMENTS, AND THE CONTRACTOR'S APPROVED EROSION CONTROL PLAN.
- (d) ANY TEMPORARY MATERIAL USED FOR POLLUTION OR EROSION AND SEDIMENT CONTROL DURING CONSTRUCTION SHALL BE REMOVED AT THE COMPLETION OF THE PROJECT AND FINAL STABILIZATION OF THE PROJECT HAS BEEN ACHIEVED.
- (e) SEDIMENT BARRIERS SHOULD BE USED ALONG THE LENGTH OF THE PROJECT WHERE THE GROUND SLOPES AWAY FROM THE RIGHT OF WAY OR WHERE THERE IS POTENTIAL FOR SEDIMENT TO BE DIRECTED OFF-SITE. PARTICULAR CARE SHOULD BE USED WHEN THERE ARE WETLANDS OR WATERS OF THE U.S. ARE INVOLVED. SEDIMENT BARRIERS SHOULD BE USED AROUND THE PERIMETER OF STOCKPILE AREAS.
- (f) SPACING OF SEDIMENT BARRIERS USED AS DITCH OR SWALE CHECKS/DAMS SHOULD BE BASED UPON THE HEIGHT OF THE BARRIER AND THE SLOPE OF THE DITCH OR SWALE.
- (g) THE CONTRACTOR SHALL BE RESPONSIBLE FOR MODIFYING SOIL TRACKING PREVENTION SYSTEMS OR PROCEDURES AS NEEDED.

(3) STRUCTURAL PRACTICES FOR EROSION AND SEDIMENT CONTROL

(a) ROLLED EROSION CONTROL PRODUCTS (ARTIFICIAL COVERINGS)

PURPOSE: TO PROTECT DISTURBED SLOPE SURFACES AGAINST EROSION DUE TO RAINFALL OR FLOWING WATER.

- (1) USED FOR PAUSES IN CONSTRUCTION DUE TO INCLEMENT WEATHER OR OTHER CIRCUMSTANCES. COULD INCLUDE NATURAL OR SYNTHETIC FIBER MATS, PLASTIC SHEETING OR NETS.
- (2) USED FOR EROSION CONTROL THAT FACILITATES PLANT GROWTH WHILE PERMANENT GRASS IS ESTABLISHED. COULD INCLUDE BIODEGRADABLE EROSION CONTROL BLANKETS INSTALLED ON A SEEDED AREA, ON FILL SLOPES OR IN DITCHES.
- (3) USED TO STABILIZE DRAINAGE CHANNELS. CONSULT E&SC MANUAL TO DETERMINE CORRECT PRODUCT TYPE FOR CHANNEL STABILIZATION.

(b) SEDIMENT BARRIERS (TEMPORARY CONSTRUCTION SITE BMP'S)

PURPOSE: SEDIMENT BARRIERS EITHER OBSTRUCT FLOW OR PREVENT THE PASSAGE OF WATER WHILE CONSTRUCTION ACTIVITIES OCCUR. SMALLER SEDIMENT BARRIERS MAY FUNCTION AS A SMALL SEDIMENT CONTAINMENT SYSTEM OR AS A METHOD TO REDUCE FLOW VELOCITY.

- (1) THESE CONSTRUCTION BMP'S CAN INCLUDE SYNTHETIC BALES, STAKED SILT FENCE, TURBIDITY BARRIER, STORM SEWER INLET BARRIERS, ROCK BARRIERS, GEOSYNTHETIC BARRIERS, ETC.
- (2) APPROPRIATE LOCATIONS INCLUDE SITE PERIMETER, BELOW DISTURBED AREAS SUBJECT TO SHEET AND RILL EROSION, BELOW THE TOE OF EXPOSED AND ERODIBLE SLOPES, ALONG THE TOE OF STREAM AND CHANNEL BANKS, AROUND DRAINS AND INLETS LOCATED IN LOWPOINTS OR THE DOWNSTREAM EDGE OF AREAS UNDERGOING VERTICAL OR BOX CULVERT CONSTRUCTION ACTIVITIES.
- (3) INAPPROPRIATE LOCATIONS FOR THESE SAME MEASURES INCLUDE PARALLEL TO A HILLSIDE CONTOUR, IN CHANNELS WITH CONCENTRATED FLOW (UNLESS PROPERLY REINFORCED), UPSTREAM OR DOWNSTREAM OF CULVERTS WITH CONCENTRATED FLOW, IN FRONT OF OR AROUND INLETS ON A GRADE WITH CONCENTRATED FLOW OR IN FLOWING STREAMS.

(c) FLOATING TURBIDITY BARRIER

PURPOSE: USED IN PERMANENT BODIES OF WATER TO RETAIN SEDIMENT AND FLOATING DEBRIS FROM A CONSTRUCTION AREA SO THAT REMOVAL OR CONTAINMENT OF THE MATERIAL IS POSSIBLE. THEY ARE ALSO USED TO CONTROL MIGRATION OF SUSPENDED SEDIMENTS.

- (1) TYPE I, LIGHT DUTY, IS USED WHERE THERE IS LITTLE OR NO CURRENT, NO WIND AND NO WAVE ACTION.
- (2) TYPE II, MODERATE DUTY, IS USED WITH SOME CURRENT (<3.5 FT. PER SECOND) AND SOME EXPOSURE TO WIND.
- (3) TYPE III, HEAVY DUTY, IS USED WITH GREATER CURRENT (3.5-5.0 FT. PER SECOND), MODERATE WIND AND WAVE ACTION.
- (4) BARRIER MUST BE ATTACHED AT BOTH ENDS AND WEIGHTED ON THE BOTTOM.
- (5) MULTIPLE LINES OF BARRIER MAY BE USED IN SOME CIRCUMSTANCES FOR ADDITIONAL PROTECTION.
- (6) STANDARD PANELS FOR WATER DEPTHS ARE 5.0'. ADDITIONAL PANELS CAN BE USED FOR WATER DEPTHS > 5.0'.

(d) SOIL TRACKING PREVENTION DEVICE

PURPOSE: TEMPORARY STRUCTURES TO ASSIST WITH THE REMOVAL OF SOIL MATERIAL CAPTURED ON VEHICLE TIRES BEFORE THE VEHICLES ENTER THE ROADWAY.

- (1) USE ONE DEVICE PER MILE WITH A MINIMUM OF TWO PER PROJECT.
- (2) USE ADDITIONAL DEVICES FOR CONSTRUCTION AREAS THAT ARE NOT ADJACENT TO THE ROAD RIGHT OF WAY AND NO ACCESS IS PROVIDED THROUGH A SOIL TRACKING PREVENTION DEVICE.
- (3) RRR PROJECTS SHOULD BE HANDLED ON A CASE BY CASE BASIS.

III. OTHER CONTROLS:

- (1) WASTE DISPOSAL
- (a) THE CONTRACTOR WILL PROVIDE LITTER CONTROL AND COLLECTION WITHIN THE PROJECT BOUNDARIES DURING CONSTRUCTION ACTIVITIES.
- (b) ALL FERTILIZER AND CHEMICAL CONTAINERS SHALL BE DISPOSED OF BY THE CONTRACTOR ACCORDING TO EPA'S STANDARD PRACTICES AS DETAILED BY THE MANUFACTURER.
- (c) NO SOLID MATERIALS, INCLUDING BUILDING AND CONSTRUCTION MATERIALS, SHALL BE DISCHARGED TO WETLANDS OR BURIED ON SITE.
- (d) ALL SANITARY WASTE WILL BE COLLECTED FROM PORTABLE UNITS BY A LICENSED SANITARY WASTE MANAGEMENT CONTRACTOR AS REQUIRED BY STATE REGULATIONS.
- (2) OFF-SITE VEHICLE TRACKING - WILL BE CONTROLLED BY THE FOLLOWING METHODS:
- (a) LOADED HAUL TRUCKS ARE TO BE COVERED BY A TARPULIN AT ALL TIMES.
- (b) EXCESS DIRT ON ROAD WILL BE REMOVED DAILY.
- (3) STATE AND FEDERAL REGULATIONS: PERMITS WILL BE REQUIRED FROM THE FOLLOWING AGENCIES:
- (a) SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT (SWFWMD) PERMIT EXEMPTION FOR ROADWAY WIDENING
- (b) STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION GENERIC PERMIT FOR STORMWATER DISCHARGES FROM LARGE AND SMALL CONSTRUCTION ACTIVITIES.
- (4) NON-STORMWATER (INCLUDING SPILL REPORTING)
- THE CONTRACTOR WILL PROVIDE THE FDOT WITH AN EROSION AND SEDIMENT CONTROL PLAN THAT WILL INCLUDE SPILL CONTAINMENT, REPORTING, AND RESPONSES. THE PLAN SHALL SPECIFY WHAT MANAGEMENT PRACTICES AND CONTAINMENT METHODS WILL BE USED TO PREVENT POTENTIAL POLLUTANTS (FUEL, LUBRICANTS, HERBICIDES, ETC.) FROM SPILLING ONTO THE SOIL OR INTO THE SURFACE WATERS. IF A SPILL DOES OCCUR, OR IF CONTAMINATED SOIL OR GROUNDWATER IS ENCOUNTERED, CONTACT MANATEE COUNTY AT (941) 708-7480.

IV. MAINTENANCE:

THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTENANCE AND REPAIRS OF ALL EROSION AND SEDIMENT CONTROL DEVICES AND REMOVAL OF EROSION AND SEDIMENT CONTROL DEVICES WHEN NOTICE OF TERMINATION IS MAILED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL AND PROPER DISPOSAL OF SEDIMENT BUILDUP THROUGH THE LIFE OF THE INSTALLED EROSION AND SEDIMENT CONTROL DEVICES.

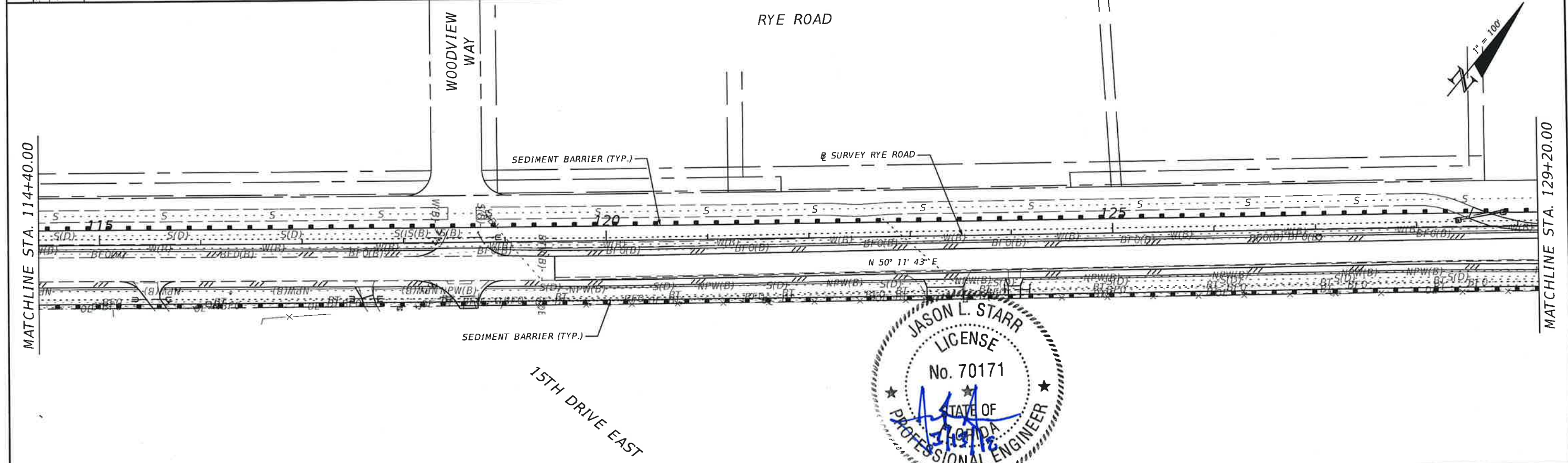
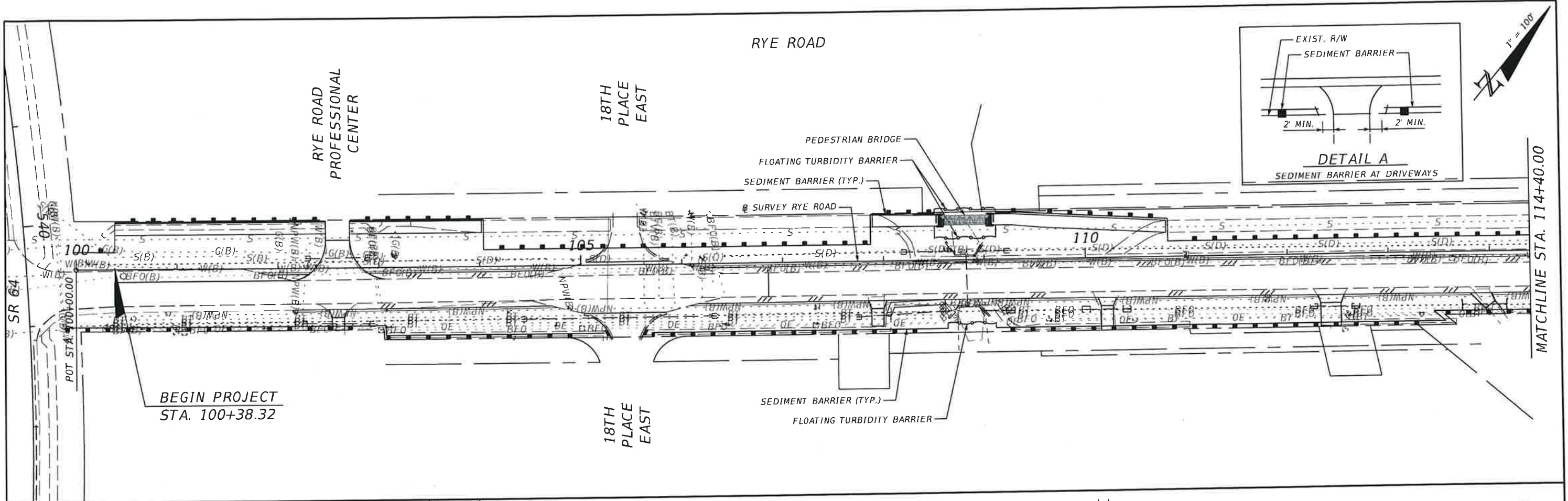
- (1) ALL CONTROL MEASURES WILL BE MAINTAINED DAILY BY THE CONTRACTOR AND ALL MEASURES WILL BE MAINTAINED IN GOOD WORKING ORDER. IF A REPAIR IS NECESSARY, IT WILL BE INITIATED WITHIN 24 HOURS OF NOTICE.
- (2) SODDING WILL BE INSPECTED FOR BARE SPOTS, WASHOUTS, AND HEALTHY GROWTH.
- (3) SYNTHETIC BALES SHALL BE MAINTAINED TO ENSURE THEIR USEFULNESS AND NOT BLOCK OR IMPEDE STORMWATER FLOW OR DRAINAGE.
- (4) STABILIZED CONSTRUCTION ENTRANCES SHALL BE MAINTAINED TO PREVENT CLOGGING OF ROCK BEDDING WHICH MAY IMPEDE THE USEFULNESS OF THE STRUCTURE.

V. INSPECTION:

- (1) THE CONTRACTOR SHALL INSTALL AND MAINTAIN RAIN GAUGES ON THE PROJECT SITE AND RECORD WEEKLY RAINFALL IN ACCORDANCE WITH THE NPDES PERMIT.
- (2) ALL EROSION AND SEDIMENT CONTROL MEASURES WILL BE INSPECTED DAILY BY CONTRACTOR'S PERSONNEL WHO ARE F.D.E.P. CERTIFIED STORMWATER MANAGEMENT INSPECTORS.
- (3) THE CONTRACTOR SHALL COMPLETE ALL SWPPP INSPECTION REPORT FORMS REQUIRED FOR THE NPDES PERMIT.

VI. TRACKING AND REPORTING:

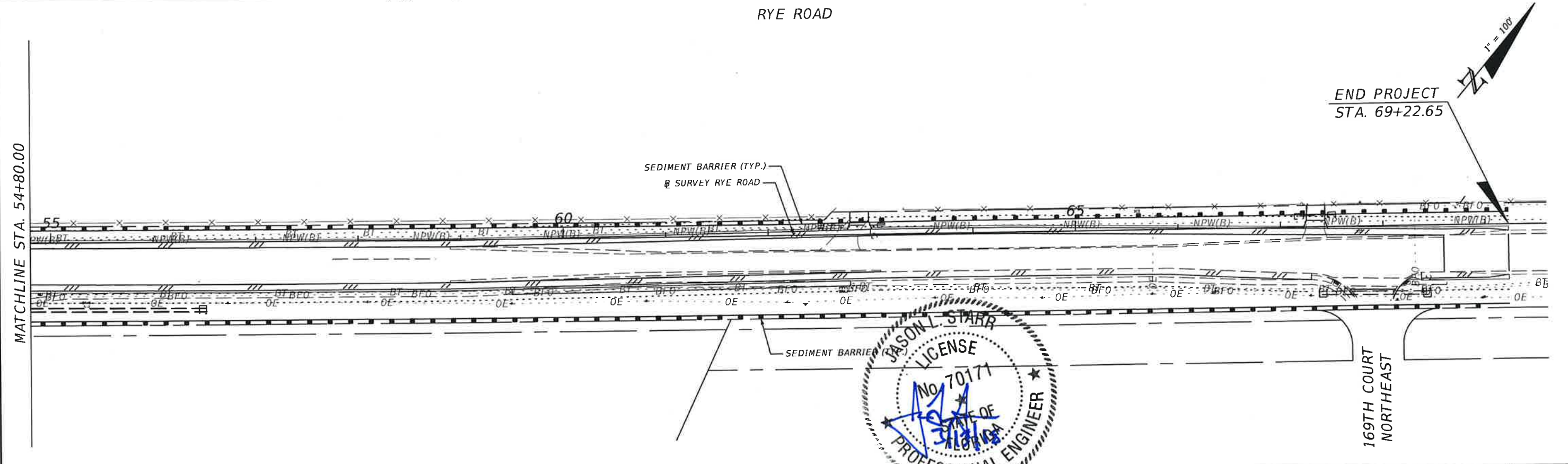
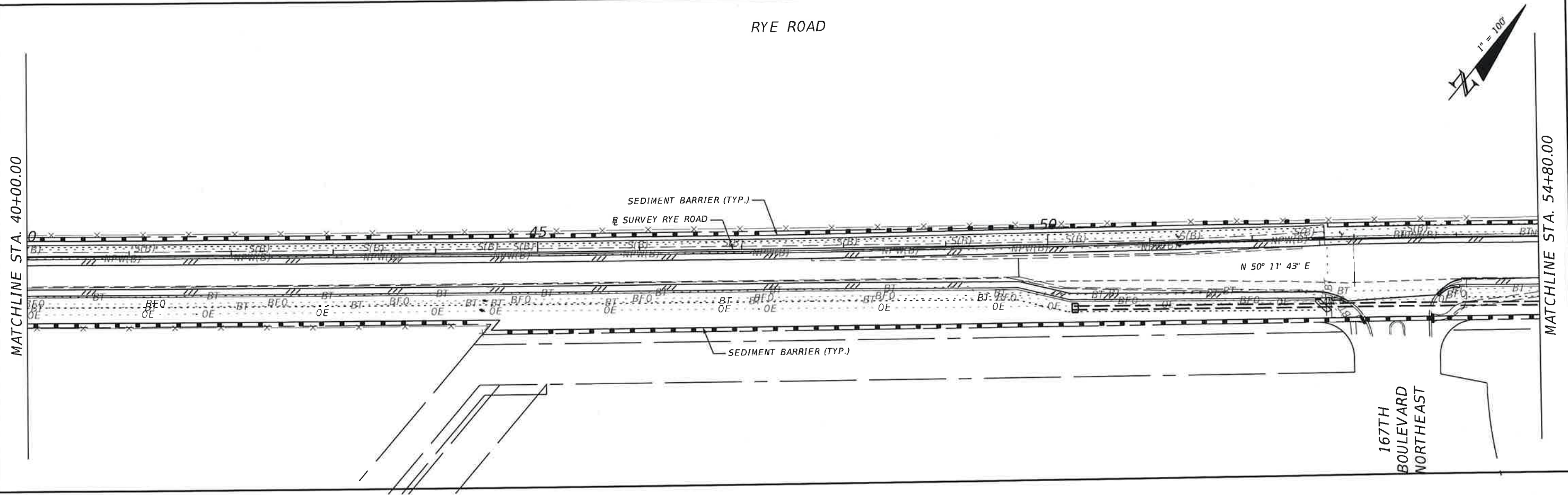
- (1) THE CONTRACTOR SHALL SUBMIT A WEEKLY REPORT TO THE DEPARTMENT DOCUMENTING THE DAILY INSPECTIONS AND MAINTENANCE OR REPAIRS TO THE EROSION AND SEDIMENT CONTROL DEVICES. THE CONTRACTOR SHALL MAINTAIN ALL REQUIRED REPORTS AND COMPLETE ALL SWPPP INSPECTION FORMS. PREPARATION OF ALL THE CONTRACTOR'S REPORTS OF INSPECTION, MAINTENANCE AND REPAIRS REQUIRED FOR THE CONTROL AND ABATEMENT OF EROSION AND WATER POLLUTION, SHALL BE INCLUDED IN THE INDIVIDUAL COSTS OF THE EROSION AND SEDIMENT CONTROL DEVICES.
- (3) THE CONTRACTOR SHALL USE THE SWPPP CONSTRUCTION INS



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DESIGNED BY JLS				2601 CATTLEMEN ROAD, SUITE 400		09/2017		JASON L. STARR		
DRAWN BY JHC				SARASOTA, FLORIDA 34232		PROJECT NO.		FL. LICENSE NO.		65
CHECKED BY JLS				CERTIFICATE OF AUTHORIZATION 4213		6086160		70171		
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TRAFFIC CONTROL GENERAL NOTES

- 1. THE COST OF MAINTENANCE OF TRAFFIC OPERATIONS SHALL BE INCLUDED UNDER THE LUMP SUM PAY ITEM, UNLESS A SEPARATE PAY ITEM IS PROVIDED.
- 2. CONTRACTOR SHALL MAINTAIN SUFFICIENT TRAVEL WAYS TO PROVIDE INGRESS AND EGRESS AS WELL AS SAFE BARRICADES TO ALL PROPERTIES WITHIN THE PROJECT AREA AT ALL TIMES.
- 3. TRAFFIC CONDITIONS, ACCIDENTS, AND OTHER UNFORESEEN EMERGENCY CONDITIONS MAY REQUIRE THE COUNTY TO RESTRICT OR REMOVE LANE CLOSURES OR CHANNELIZATIONS SHOWN IN THE PLANS. THE CONTRACTOR SHALL RESPOND AND PROVIDE ADJUSTMENTS AS DIRECTED BY THE COUNTY WITHOUT DELAY UNDER THESE CONDITIONS. THE CONTRACTOR SHALL ALSO RESPOND WITHIN TIME CONSTRAINTS OUTLINED IN THE STANDARD SPECIFICATIONS UPON NOTIFICATION BY THE COUNTY TO ANY REQUESTS FOR CORRECTION, IMPROVEMENT, OR MODIFICATION TO THE TRAFFIC CONTROL PLAN AND/OR DEVICES. ALL COSTS SHALL BE INCLUDED IN THE BID PRICE FOR MAINTENANCE OF TRAFFIC.
- 4. MAINTENANCE OF TRAFFIC SHALL BE IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (2009) AND FDOT DESIGN STANDARDS (FY2017-18).
- 5. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO INSTALL AND MAINTAIN TEMPORARY DRAINAGE AND EROSION CONTROL FACILITIES AS SHOWN ON THE PLANS OR AS DIRECTED BY THE COUNTY. POSITIVE DRAINAGE OFF OF THE TRAVELED ROADWAY SHALL BE MAINTAINED AT ALL TIMES.
- 6. FOR SIDE STREET INTERSECTIONS, LANE CLOSURE SHALL BE LIMITED TO ONE LANE AT ALL TIMES, EXCEPT FOR SPECIFIED DETOURS. AT A MINIMUM, ONE-LANE, TWO-WAY OPERATION SHALL BE MAINTAINED THROUGH THE USE OF FLAGGERS. TWO-LANE, TWO-WAY OPERATION SHALL BE MAINTAINED DURING PERIODS OF LANE CLOSURE RESTRICTIONS AND WHEN CONSTRUCTION ACTIVITIES ARE BEYOND THE LIMITS OF THE INTERSECTIONS.
- 7. TRAFFIC CONTROL SHALL FOLLOW INDEXES 600, 602 AND 603 - TWO-LANE, TWO-WAY WORK ON SHOULDER OR IN TRAVEL WAY AS NEEDED.
- 8. ADVANCED WARNING SIGNAGE SHALL BE PLACED ON SR 64 AND ALL SIDE STREETS IN ADDITION TO RYE ROAD PROJECT LIMITS.

TRAFFIC CONTROL PHASING NOTES

- 1. SEE PROJECT STRUCTURAL WIDENING PLANS CONSTRUCTION SEQUENCING SHEET FOR PHASING CONTROL.
- 2. TRAFFIC CONTROL PHASES FOR ROADWAY WORK SHALL FOLLOW THE STRUCTURAL WIDENING PLANS:

PHASE 1 - RIGHT SIDE WIDENING

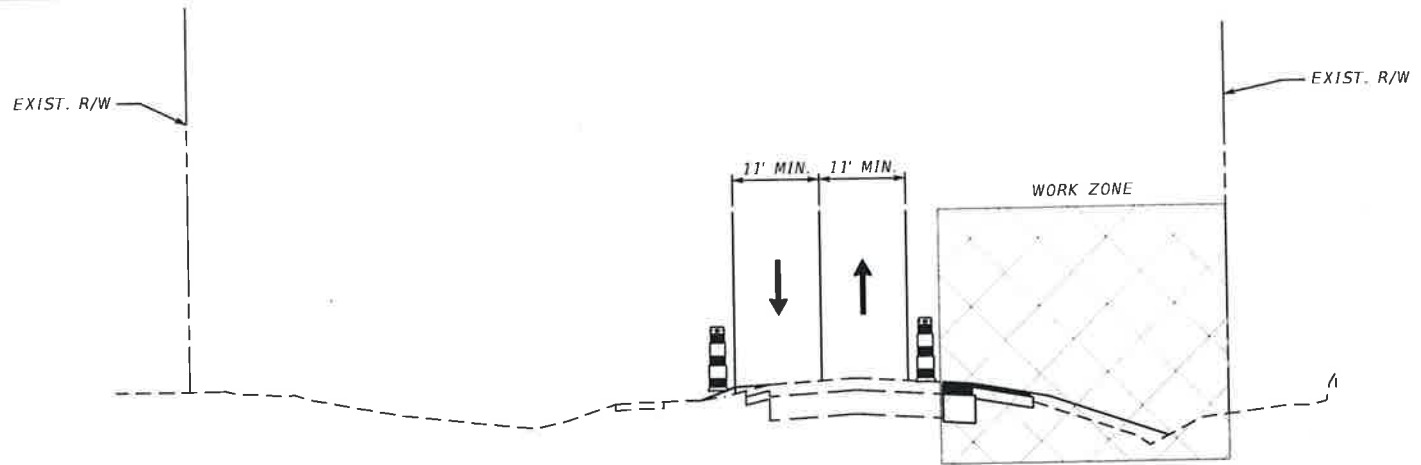
- 1. INSTALL ALL ADVANCED WARNING DEVICES FOR MAINLINE AND SIDE STREETS.
- 2. PRIOR TO TRAFFIC SHIFT FOR WORK ZONE, CONSTRUCT TEMPORARY PAVEMENT AS NEEDED TO MAINTAIN TRAVEL LANES. THROUGH LANES SHALL BE 11-FT WIDE (MIN.) AND TURN LANES SHALL BE 10-FT WIDE (MIN.).
- 3. INSTALL TEMPORARY DEVICES FOR TRAFFIC SHIFT AND CONSTRUCT RIGHT SIDE WIDENING. TRAFFIC IS MAINTAINED ON EXISTING PAVEMENT AND TEMPORARY PAVEMENT. CONNECTIONS TO STRUCTURAL WIDENING OF THE TWO BRIDGES SHALL TIE INTO THE TEMPORARY TYPE K BARRIERS BOLTED TO THE STRUCTURE.

PHASE 2 - LEFT SIDE WIDENING

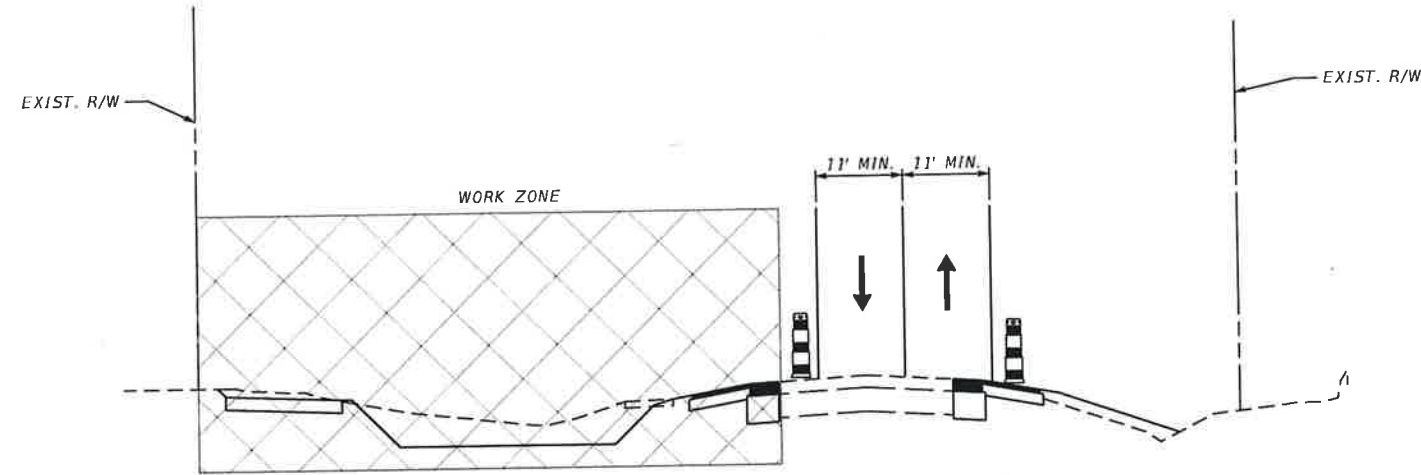
- 1. MAINTAIN ALL ADVANCED WARNING DEVICES FOR MAINLINE AND SIDE STREETS.
- 2. INSTALL TEMPORARY DEVICES FOR TRAFFIC SHIFT. TRAFFIC IS MAINTAINED ON EXISTING PAVEMENT AND NEW PAVEMENT FROM PHASE 1.
- 3. CONSTRUCT LEFT SIDE WIDENING INCLUDING COMPLETION OF 12-FT WIDE CONCRETE TRAIL AND PEDESTRIAN BRIDGES.

PHASE 3 - MILLING AND RESURFACING

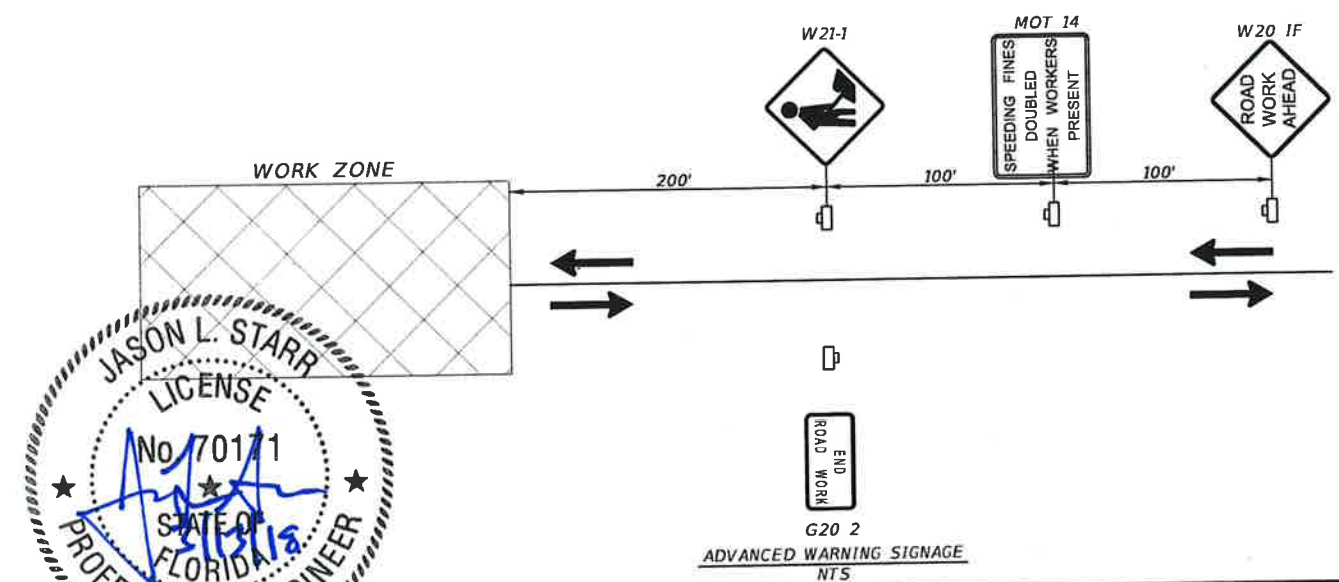
- 1. COMPLETE MILLING OF MAINLINE USING STANDARD MILLING PRACTICES AND WORK ZONE CONTROL.
- 2. RESURFACE AND ADD FINAL LIFT OF PAVEMENT FOR MAINLINE AND SIDE STREETS USING STANDARD PRACTICES AND WORK ZONE CONTROL.



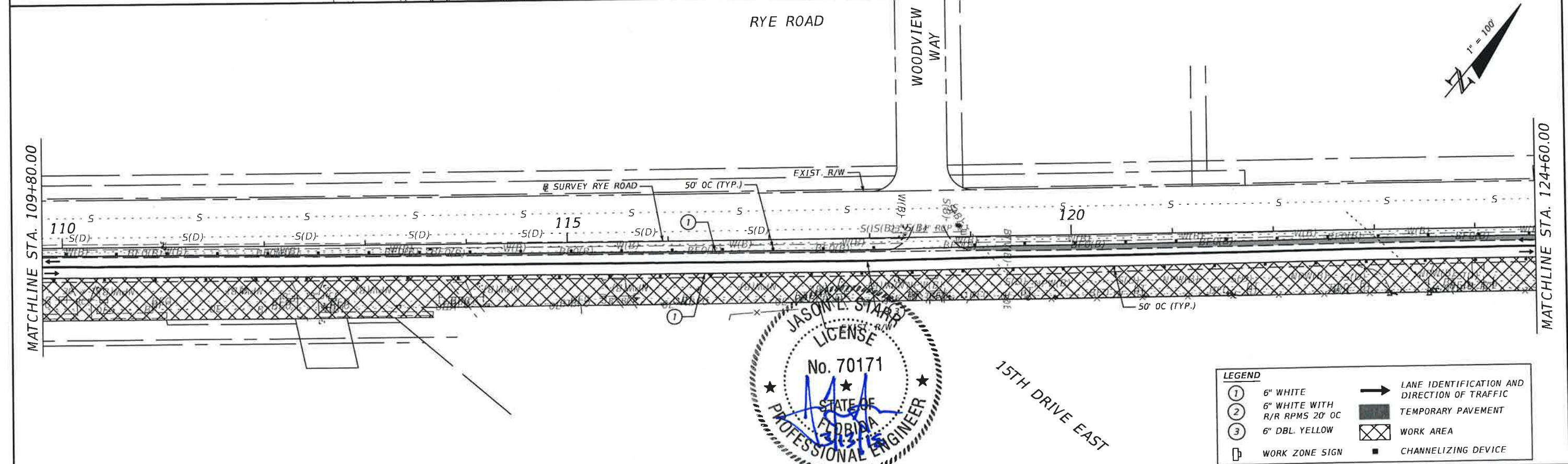
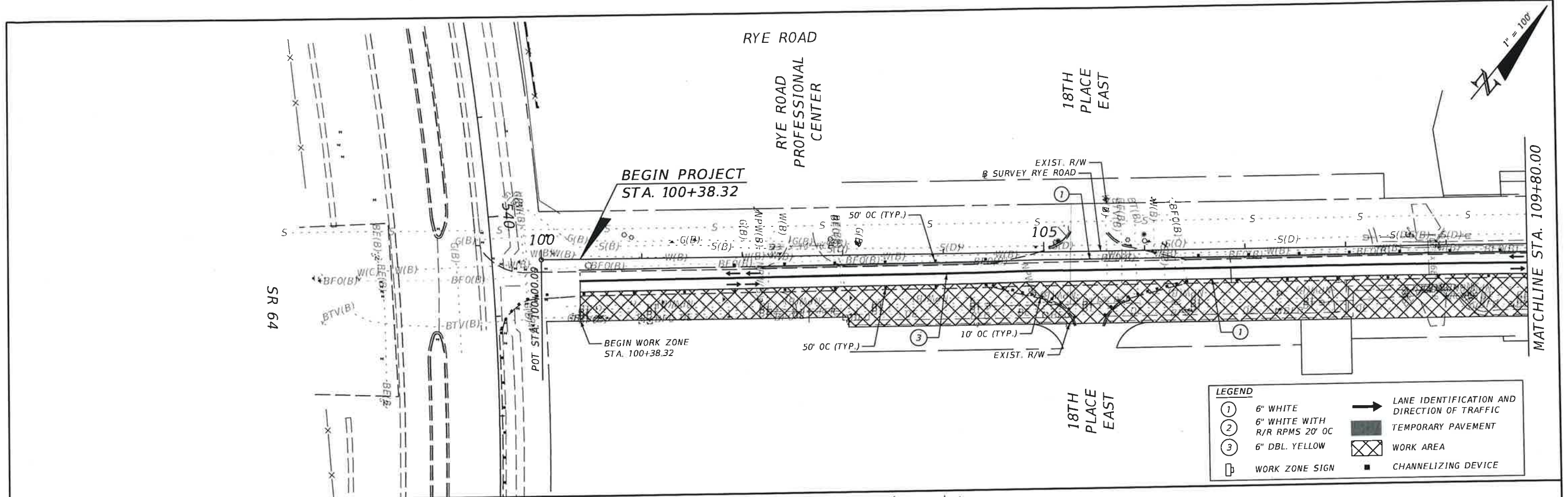
PHASE I - FROM STA. 100+38.32 TO STA. 69+22.65



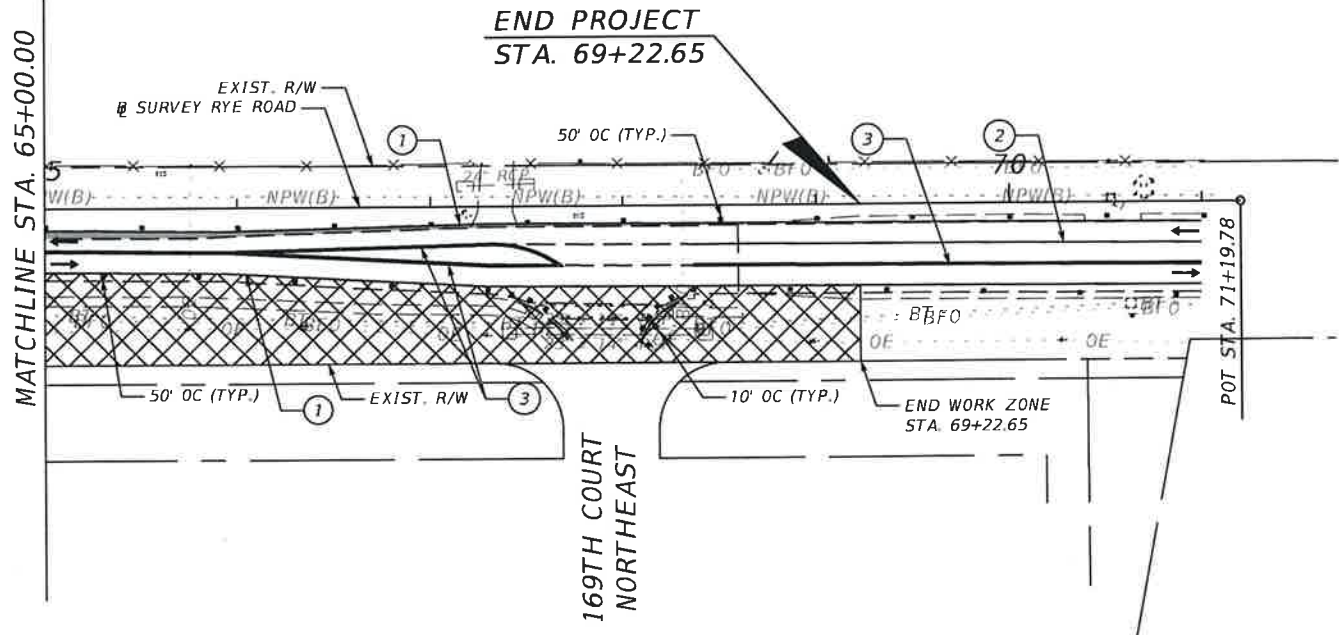
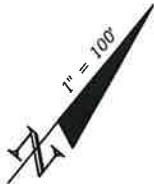
PHASE II - FROM STA. 100+38.32 TO STA. 69+22.65



SCALE AS NOTED				HDR ENGINEERING, INC.		MANATEE COUNTY PUBLIC WORKS	DESIGN ENGINEER JASON L. STARR FL. LICENSE NO. 70171	TEMPORARY TRAFFIC CONTROL GENERAL NOTES	SHEET NO. 66				
DESIGNED BY JLS				2601 CATTLEMEN ROAD, SUITE 400									
DRAWN BY JHC				SARASOTA, FLORIDA 34232									
CHECKED BY JLS				CERTIFICATE OF AUTHORIZATION 4213									
No.	REVISIONS	DATE	BY										



SCALE AS NOTED				DATE 09/2017		DESIGN ENGINEER JASON L. STARR FL. LICENSE NO. 70171	SHEET NO. 67		
DESIGNED BY JLS				PROJECT NO. 6086160					
DRAWN BY JHC				MANATEE COUNTY PUBLIC WORKS					
CHECKED BY JLS				CERTIFICATE OF AUTHORIZATION 4213		TEMPORARY TRAFFIC CONTROL PLAN (1)			
REVISIONS				DATE BY		PW:\007982\C0N0086775\000000000225338\13.00_CAD\12345615201\roadway\TCPLRD01.dgn			

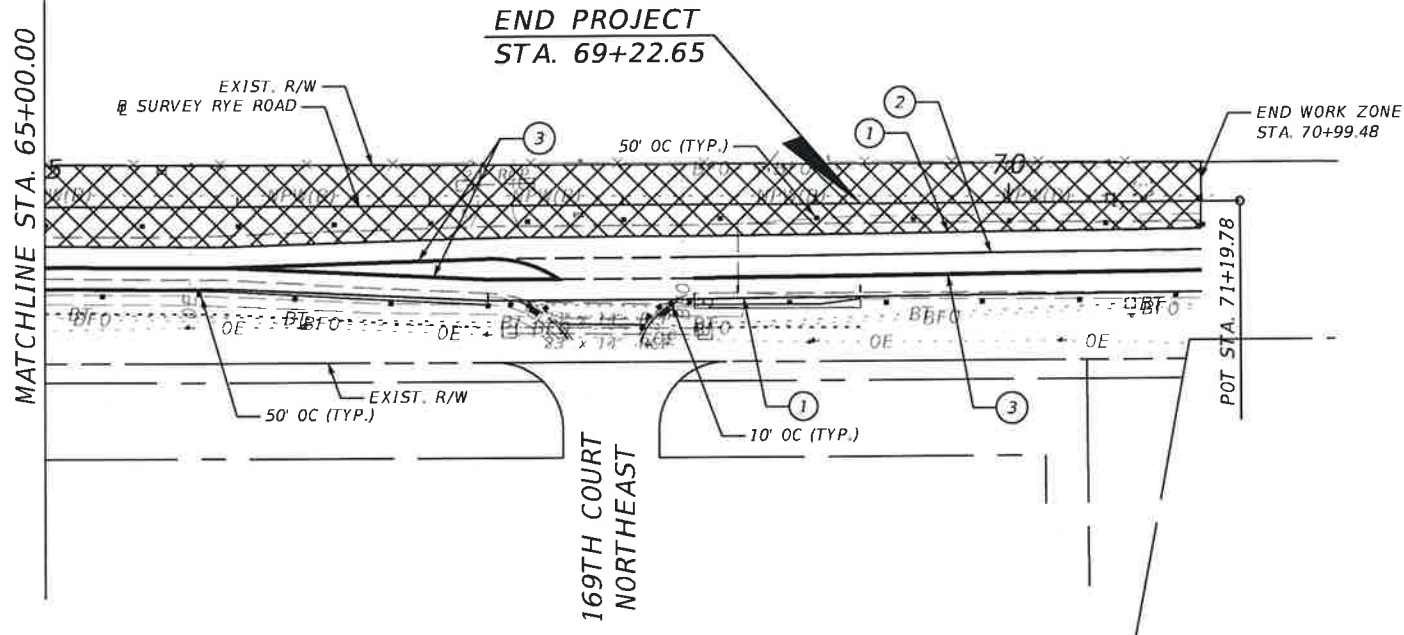


LEGEND

①	6" WHITE	→	LANE IDENTIFICATION AND DIRECTION OF TRAFFIC
②	6" WHITE WITH R/R RPMS 20' OC	■	TEMPORARY PAVEMENT
③	6" DBL. YELLOW	⊠	WORK AREA
⏏	WORK ZONE SIGN	■	CHANNELIZING DEVICE



SCALE AS NOTED				HDR ENGINEERING, INC.		DATE 09/2017	 MANATEE COUNTY PUBLIC WORKS	DESIGN ENGINEER JASON L. STARR	FL. LICENSE NO. 70171	SHEET NO. 72								
DESIGNED BY JLS				2601 CATTLEMEN ROAD, SUITE 400														
DRAWN BY JHC				SARASOTA, FLORIDA 34232		PROJECT NO. 6086160				TEMPORARY TRAFFIC CONTROL PLAN (6)								
CHECKED BY JLS				CERTIFICATE OF AUTHORIZATION 4213														
No.	REVISIONS	DATE	BY															



LEGEND

①	6" WHITE	→	LANE IDENTIFICATION AND DIRECTION OF TRAFFIC
②	6" WHITE WITH R/R RPMS 20' OC	■	TEMPORARY PAVEMENT
③	6" DBL. YELLOW	⊠	WORK AREA
⏏	WORK ZONE SIGN	■	CHANNELIZING DEVICE



SCALE AS NOTED				HDR ENGINEERING, INC.		DATE 09/2017		 MANATEE COUNTY PUBLIC WORKS	DESIGN ENGINEER JASON L. STARR		TEMPORARY TRAFFIC CONTROL PLAN (13)	SHEET NO. 79			
DESIGNED BY JLS				2601 CATTLEMEN ROAD, SUITE 400		PROJECT NO. 6086160			FL. LICENSE NO. 70171						
DRAWN BY JHC				SARASOTA, FLORIDA 34232											
CHECKED BY JLS				CERTIFICATE OF AUTHORIZATION 4213											
No.	REVISIONS	DATE	BY												

LEGEND

① 6" WHITE

② 6" WHITE WITH R/R RPMS 20' OC

③ 6" DBL. YELLOW

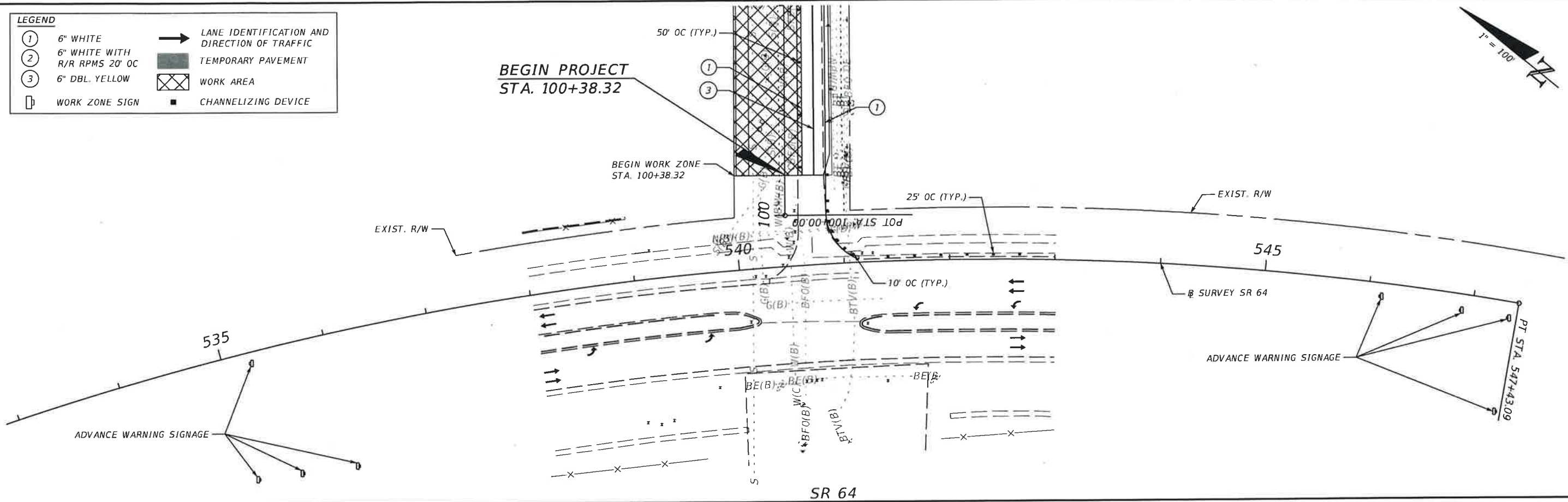
WORK ZONE SIGN

→ LANE IDENTIFICATION AND DIRECTION OF TRAFFIC

TEMPORARY PAVEMENT

WORK AREA

CHANNELIZING DEVICE

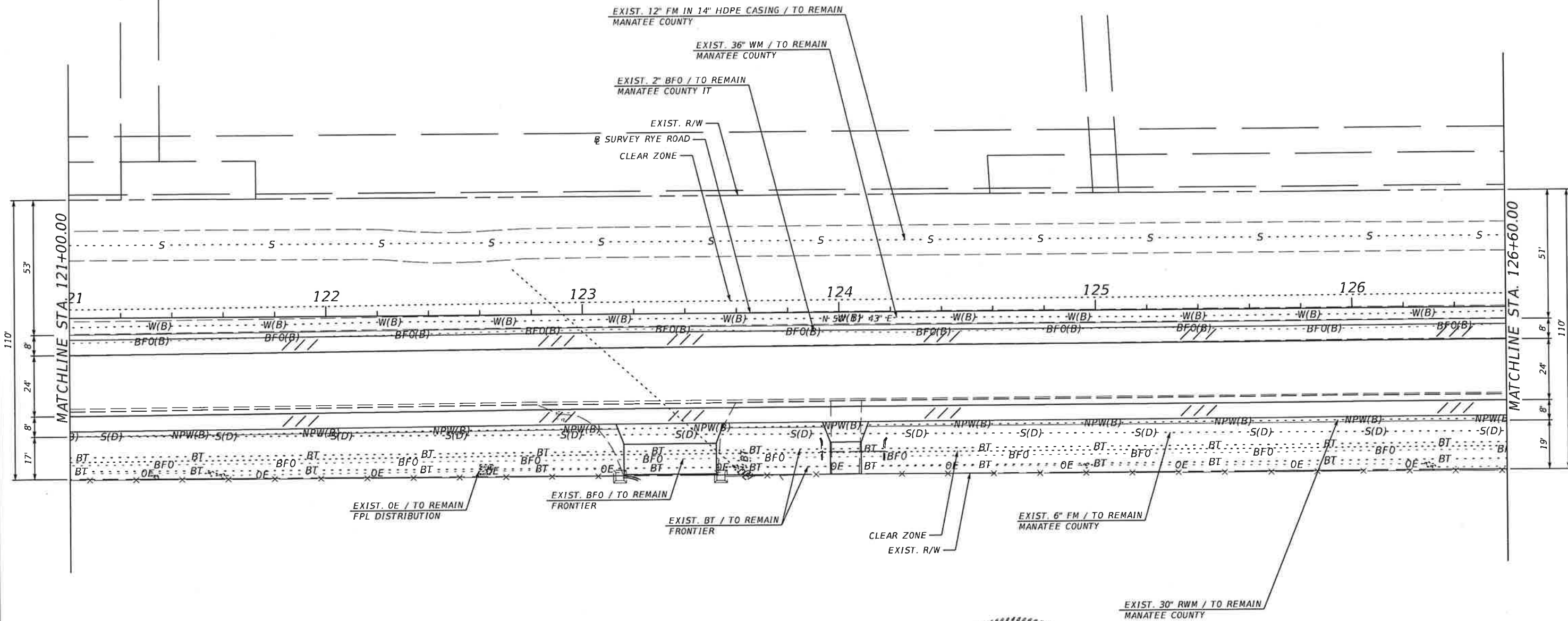
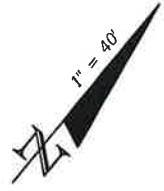


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				DRAWN BY	JHC	SARASOTA, FLORIDA 34232	PROJECT NO.		FL. LICENSE NO.		
				CHECKED BY	JLS	CERTIFICATE OF AUTHORIZATION 4213	6086160		70171		
No.	REVISIONS			DATE	BY						

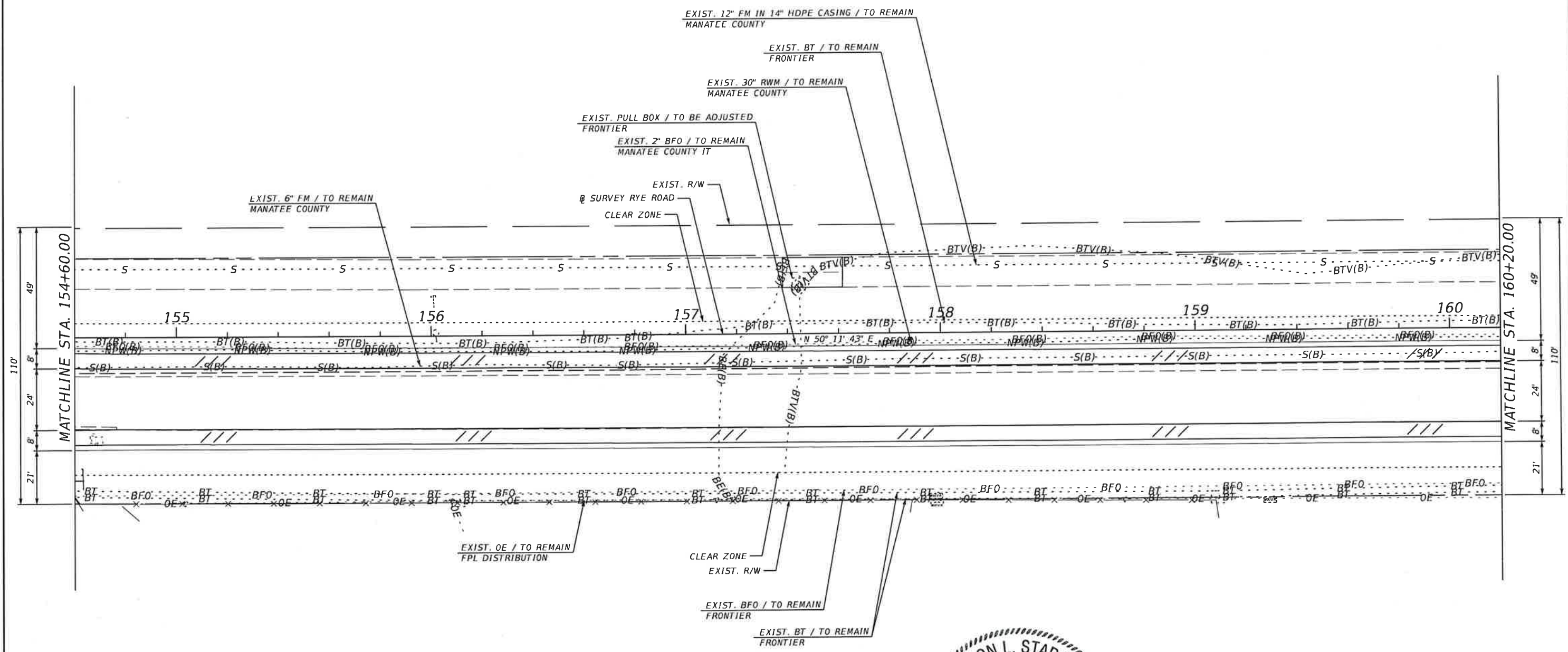
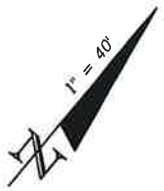
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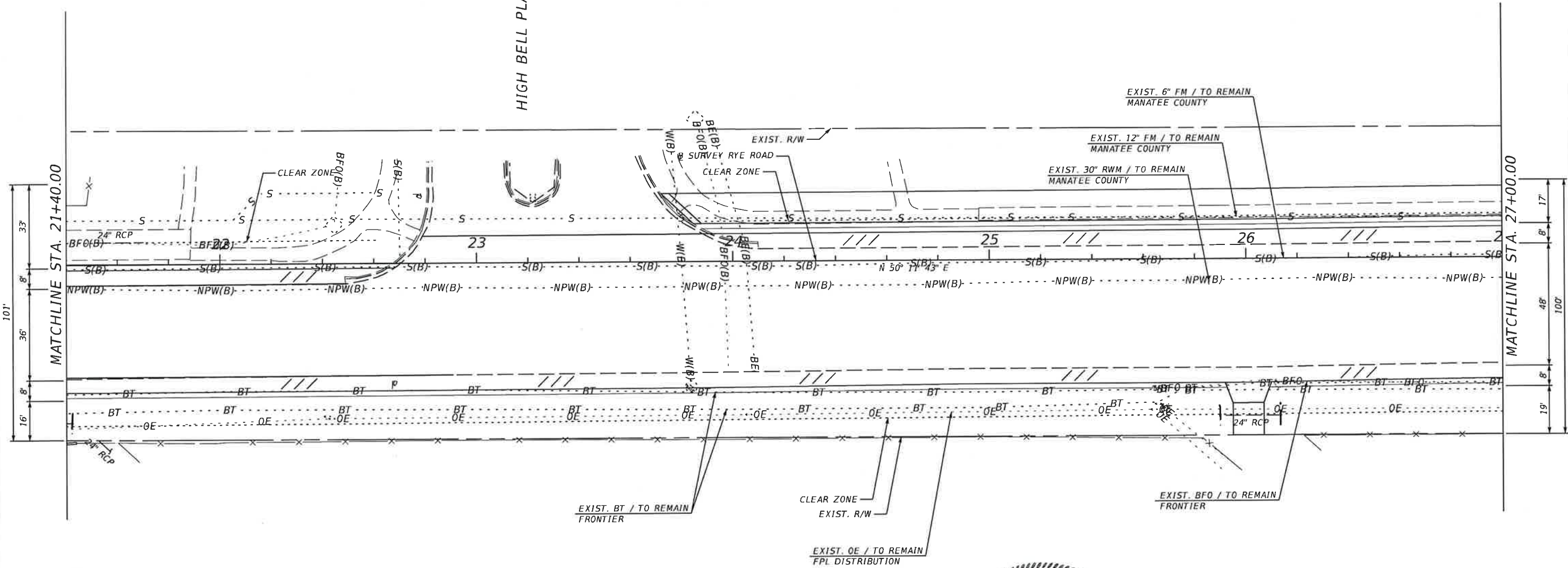
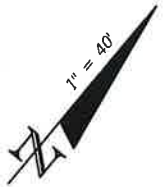
				SCALE AS NOTED		HDR ENGINEERING, INC.		DATE			MANATEE COUNTY PUBLIC WORKS	DESIGN ENGINEER JASON L. STARR	FL. LICENSE NO. 70171	SHEET NO. 85					
				DESIGNED BY JLS		2601 CATTLEMEN ROAD, SUITE 400		09/2017											
				DRAWN BY JHC		SARASOTA, FLORIDA 34232		PROJECT NO.											
				CHECKED BY JLS		CERTIFICATE OF AUTHORIZATION 4213		6086160											
No.	REVISIONS			DATE	BY														



				SCALE AS NOTED	HDR ENGINEERING, INC.	DATE 09/2017	 MANATEE COUNTY PUBLIC WORKS	DESIGN ENGINEER JASON L. STARR	UTILITY ADJUSTMENTS (II)	SHEET NO.
				DESIGNED BY JLS	2601 CATTLEMEN ROAD, SUITE 400	PROJECT NO. 6086160		FL. LICENSE NO. 70171		91
				DRAWN BY JHC	SARASOTA, FLORIDA 34232					
				CHECKED BY JLS	CERTIFICATE OF AUTHORIZATION 4213					
No.	REVISIONS	DATE	BY							

DEL TIERRA

HIGH BELL PLACE



				SCALE	AS NOTED	HDR ENGINEERING, INC.	DATE	 MANATEE COUNTY PUBLIC WORKS	DESIGN ENGINEER	UTILITY ADJUSTMENTS (19)	SHEET NO.
				DESIGNED BY	JLS	2601 CATTLEMEN ROAD, SUITE 400	09/2017		JASON L. STARR		99
				DRAWN BY	JHC	SARASOTA, FLORIDA 34232	PROJECT NO.		FL. LICENSE NO.		
				CHECKED BY	JLS	CERTIFICATE OF AUTHORIZATION 4213	6086160		70171		
No.	REVISIONS			DATE	BY						

