



## ADDENDUM NO.

Issue Date: October 17, 2022

Project Name: 11<sup>th</sup> Drive and 37<sup>th</sup> Street Roadway and Intersection Improvements

Bid Number: 2023009

Bid Opening Date: **November 16, 2022**

This addendum is being released to provide unlocked version of the roadway plans for the project for assisting in bidding purposes only. These electronic files are non-certified recordings of printed documents prepared by Indian River County. These files are provided only for the convenience of the Receiving Party and are intended solely for the exclusive use by that party for the purposes expressly authorized. In accordance with the standard industry practice, only printed copies of documents conveyed by Indian River County may be relied upon. Any use of the information obtained or derived from these electronic files will be at the Receiving Party's sole risk. Because data stored in electronic format can deteriorate or be modified inadvertently or otherwise without authorization of the data's creator. Electronic CADD files are provided for informational purposes only and should not be considered as a replacement to the signed and sealed plans that have been issued for construction. Any use of the information contained within, or derived from these files is at the sole risk of the recipient.

The information and documents contained in this addendum are hereby incorporated in the invitation to bid. **This addendum must be acknowledged where indicated on the bid form, or the bid will be declared non-responsive.**

**Attachments: PDF of CADD files (unlocked)**

# INDIAN RIVER COUNTY BOARD OF COUNTY COMMISSIONERS

## CONTRACT PLANS

### INDIAN RIVER COUNTY (88) PROJECT #2001

#### 11TH DRIVE AND 37TH STREET ROADWAY AND INTERSECTION IMPROVEMENTS

COMPONENTS OF CONTRACT PLANS SET:

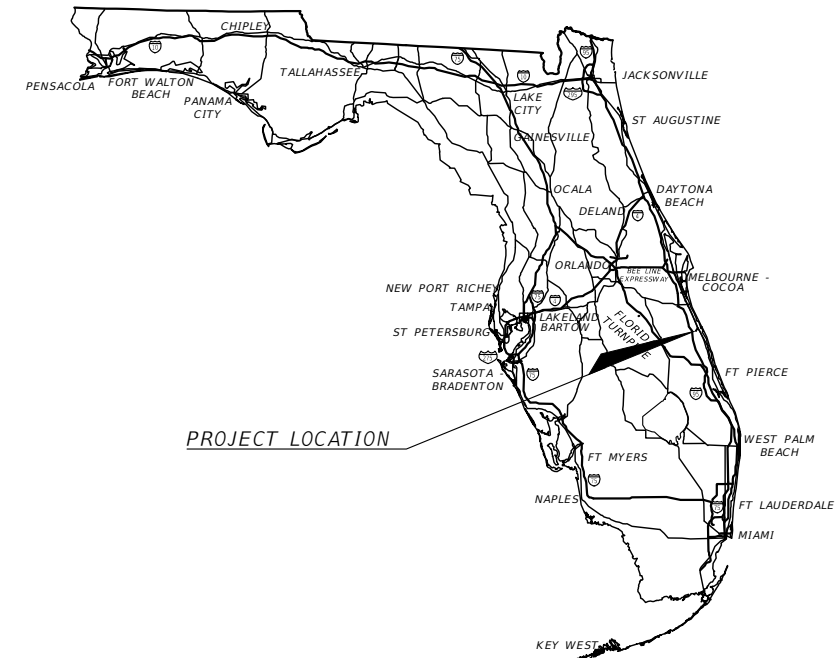
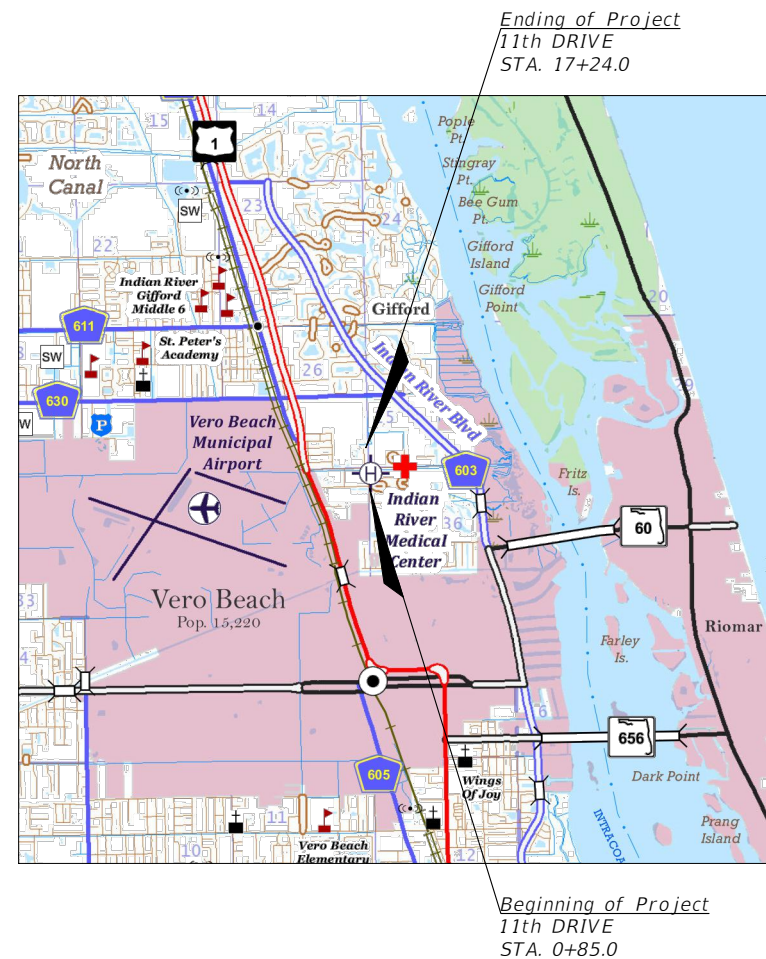
ROADWAY PLANS: 1-67

PAVEMENT MARKINGS AND SIGNAGE PLANS: 68-70

SIGNALIZATION PLANS: T1-T10

#### INDEX OF ROADWAY PLANS

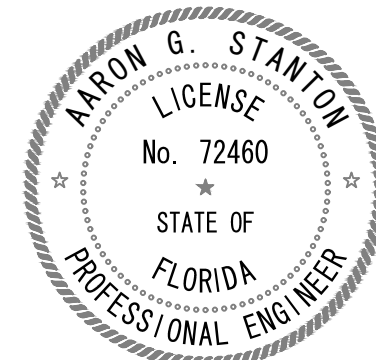
SHEET NO.	SHEET DESCRIPTION
1	KEY SHEET
2	REVISIONS TABLE
3	SIGNATURE SHEET
4	SUMMARY OF PAY ITEMS
5-7	DRAINAGE PLANS
8-10	TYPICAL SECTIONS
11	SUMMARY OF QUANTITIES
12	SUMMARY OF DRAINAGE STRUCTURES
13	GENERAL NOTES
14-16	TYPICAL DETAILS
17-18	PROJECT LAYOUT SHEETS - CONTROL POINTS
19-20	STORMWATER POLLUTION PREVENTION NOTES
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24-26	DEMOLITION PLANS
27-34	PLAN & PROFILE SHEETS
35-40	DETAILED INTERSECTION PLAN SHEETS
41-44	POND PLANS AND DETAILS
45-67	CROSS SECTIONS
68-70	PAVEMENT MARKINGS AND SIGNAGE PLANS
UT1-UT7	UTILITY ADJUSTMENT PLANS
UT8-UT11	STREET LIGHTING PLANS AND DETAILS



100% BID SET  
PLAN SUBMITTAL:  
OCTOBER, 2022

I.R.C. PROJECT MANAGERS:  
ROADWAY PRODUCTION ENGINEER:  
-  
COUNTY ENGINEER  
JAMES ENNIS P.E. - 727-226-1221  
1801 27th STREET  
VERO BEACH, FL 32960-3388

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



COUNTY COMMISSIONERS:  
SUSAN ADAMS, COMMISSIONER, DISTRICT 1  
JOSEPH E. FLESCHER, DISTRICT 2  
JOE EARMAN, VICE-CHAIRMAN, COMMISSIONER, DISTRICT 3  
PETER D. O'BRYAN, CHAIRMAN, DISTRICT 4  
LAURA MOSS, COMMISSIONER, DISTRICT 5

CONSTRUCTION CONTRACT NO.	FISCAL YEAR	SHEET NO.
IRC-2001	21	1

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

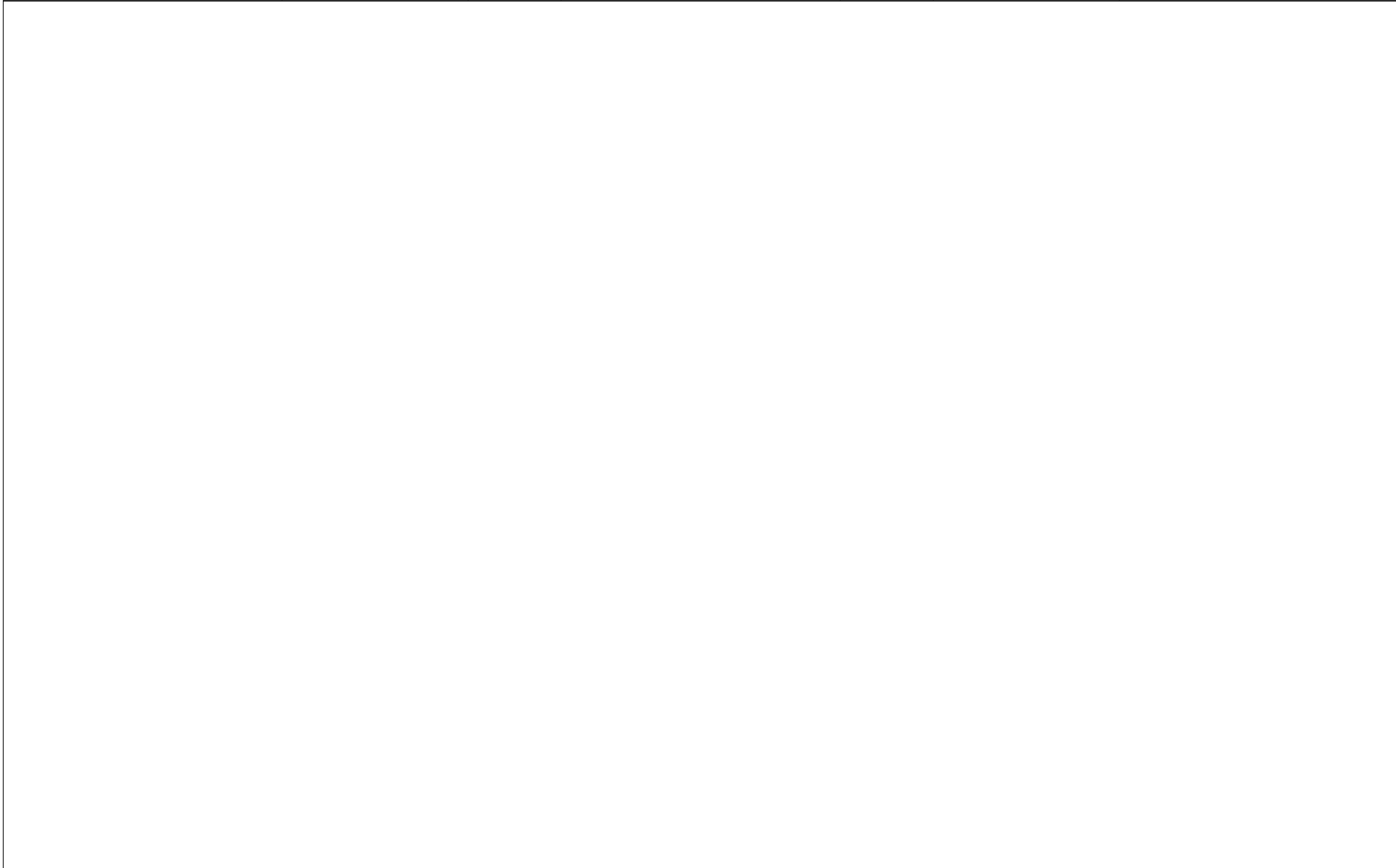
GOVERNING DESIGN STANDARDS:  
Florida Department of Transportation, FY2020-21 Design Standards eBook (DSeB) and applicable Design Standards Revisions (DSRs) at the following website:  
<http://www.fdot.gov/roadway/DesignStandards/Standards.shtm>

APPLICABLE DSRs:

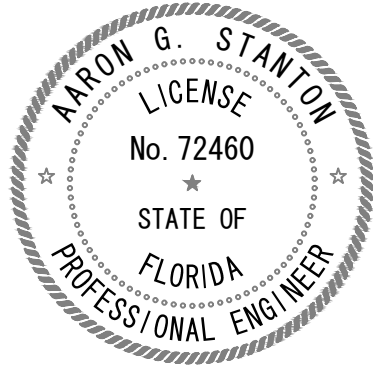
GOVERNING STANDARD SPECIFICATIONS:  
Florida Department of Transportation, JAN, 2020 Standard Specifications for Road and Bridge Construction at the following website:  
<http://www.fdot.gov/programmanagement/Implemented/SpecBooks>

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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<i>REVISIONS</i>				<i>INDIAN RIVER COUNTY</i>			<i>REVISION TABLE</i>	<i>SHEET NO.</i>
<i>DATE</i>	<i>DESCRIPTION</i>	<i>DATE</i>	<i>DESCRIPTION</i>	<i>ROAD NO.</i>	<i>COUNTY</i>	<i>FINANCIAL PROJECT ID</i>		2
---	---		AARON STANTON, P.E. P.E. LICENSE NUMBER 72460 MBV ENGINEERING, INC. 1835 20th STREET VERO BEACH, FL 32960 CERTIFICATE OF AUTHORIZATION 3728	11th DRIVE	INDIAN RIVER	IRC: 2001 FDOT: N/A		



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

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

**INDEX OF ROADWAY PLANS**

SHEET NO.	SHEET DESCRIPTION
1	KEY SHEET
2	REVISIONS TABLE
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REVISIONS				AARON STANTON, P.E. P.E. LICENSE NUMBER 72460 MBV ENGINEERING, INC. 1835 20th STREET VERO BEACH, FL 32960 CERTIFICATE OF AUTHORIZATION 3728	INDIAN RIVER COUNTY DEPARTMENT OF PUBLIC WORKS/ENGINEERING DIVISION			SIGNATURE SHEET	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		3
---	---				11th DRIVE	INDIAN RIVER	IRC: 2001 FDOT: N/A		

PAY ITEM FOOTNOTES

- 101-1 MOBILIZATION: THE LUMP SUM PRICE PAID INCLUDES, BUT IS NOT LIMITED TO, ALL COSTS ASSOCIATED WITH INSURANCE, BONDS, REQUIRED PERMITS AND FEES, PREPARATION AND SUBMITTAL OF FDEP NOTICE OF INTENT (NOI), SHOP DRAWINGS AND SUBMITTALS, MOVING ONTO THE JOB (MOBILIZATION), MOVING OFF THE JOB (DEMOBILIZATION), PROJECT PHASING, SUPERVISION, COORDINATION OF CONCURRENT WORK WITH OTHER CONTRACTORS, MEETINGS, SURVEYING, RESETTING SURVEY MONUMENTS, VIDEOTAPING SITE PRIOR TO START OF WORK, POTHOLING, "AS-BUILT" PLANS, AND CLEAN UP OF WORK INDICATED IN THE CONTRACT DOCUMENTS.
- 102-1 MAINTENANCE OF TRAFFIC: INCLUDES, BUT IS NOT LIMITED TO, BARRIER WALLS, VERTICAL PANELS, ATTENUATORS, TEMPORARY STRIPING, INCLUDING TEMPORARY STRIPING FOR 30 DAY CURE PERIOD, CONSTRUCTION SIGNS, BUSINESS SIGNS, MESSAGE BOARDS, BARRICADES, PERMANENT RELOCATION OF SIGNS AND ALL OTHER TRAFFIC INCIDENTAL ITEMS REQUIRED FOR THE MAINTENANCE OF TRAFFIC ON A 24 HOUR / 7 DAY BASIS. VARIABLE CHANGING MESSAGE SIGN SHALL IN PLACE 2 WEEKS PRIOR TO ALL ROAD CLOSINGS, ALL COSTS FOR EACH PHASE OF WORK AND THE OVERALL PROJECT SHALL BE INCLUDED. COST SHALL INCLUDE ANY DRAINAGE ELEMENTS BEYOND WHAT IS SPECIFIED IN THE CONTRACT DOCUMENTS, AND ALL ITEMS NECESSARY TO MEET THE MAINTENANCE OF TRAFFIC REQUIREMENTS OF THE FLORIDA DEPARTMENT OF TRANSPORTATION AS PRESCRIBED IN SECTION 102-1 OF THE FDOT STANDARD PLANS. INCLUDED MOT PLANS PREPARED FOR EACH PHASE OF WORK AND THE OVERALL PROJECT.
- 110-1-1 CLEARING AND GRUBBING: THE LUMP SUM PRICE PAID INCLUDES BUT NOT LIMITED TO VEGETATION & TOPSOIL REMOVAL (AVERAGE 6" DEEP), SAW CUT AND/OR REMOVAL OF EXISTING DRAINAGE STRUCTURES, PIPING, FLEXIBLE PAVEMENT, CURB, THE REMOVAL OF EXISTING GUARDRAIL, POLES, FENCE, AND THE REMOVAL OF EXISTING PIPES, HEADWALLS AND/OR STRUCTURES. WORK ALSO INCLUDES RELOCATION OF EXISTING DRAINAGE STRUCTURES. WHERE EXISTING PIPES ARE REMOVED AND THE EXISTING STRUCTURE REMAINS, THE RESULTING HOLE SHALL BE FORMED AND REPAIRED WITH CONCRETE. THE CONTRACTOR SHALL COMPLY WITH THE STATE OF FLORIDA TRENCH SAFETY ACT.
- 120-1 EXCAVATION: THE UNIT PRICE PAID PER CUBIC YARD INCLUDES ALL COSTS FOR EXCAVATION SHOWN ON THE PLANS FOR ROAD WIDENING AND LOWERING, PROTECTION AND RELOCATION OF SUBSTRUCTURES, COMPACTING SUBGRADE TO 12" WITHIN THE PAVED AREA AND STABILIZED SHOULDERS; AND FOR FURNISHING, PLACING AND COMPACTING MATERIAL SHOWN ON THE PLANS FOR AREAS OUTSIDE OF THE PAVED ROAD, COMPLETE AND IN PLACE. EXCAVATION MATERIAL UNDER THIS PAY ITEM SHALL BE RE-USED ON SITE AS EMBANKMENT UNDER 120-6. ANY OTHER EXCESS MATERIAL SHALL BE HAULED OFF AND PROPERLY DISPOSED OF. THIS IS A FINAL PAY ITEM BASED ON PLAN QUANTITIES, AND NO ADDITIONAL PAYMENT WILL BE MADE. EXCAVATION QUANTITY BASED UPON CUT AFTER 6" AVERAGE STRIPPING IS COMPLETED. CUT IS TO TOP OF STABILIZED SUBGRADE ELEVATION FOR ROADS AND SIDEWALK AND TO PROPOSED GRADE IN GREEN AREAS. CUT VOLUME IS CALCULATED IN SITU.
- 120-6 EMBANKMENT: THE UNIT PRICE PAID PER CUBIC YARD INCLUDES ALL COSTS FOR EMBANKMENT SHOWN ON THE PLANS FOR ROAD WIDENING AND LOWERING, PROTECTION AND RELOCATION OF SUBSTRUCTURES, COMPACTING SUBGRADE TO 12" WITHIN THE PAVED AREA AND STABILIZED SHOULDERS; AND FOR FURNISHING, PLACING AND COMPACTING MATERIAL SHOWN ON THE PLANS FOR AREAS OUTSIDE OF THE PAVED ROAD, COMPLETE AND IN PLACE. EXCAVATION FROM PAY ITEM 120-1 SHALL BE USED FOR THIS ITEM. THIS IS A FINAL PAY ITEM BASED ON PLAN QUANTITIES, AND NO ADDITIONAL PAYMENT WILL BE MADE. FILL VOLUME IS IN SITU, NO COMPACTION FACTOR HAS BEEN APPLIED.
- 285-709 (OBG 9) THE COST OF PRIME COAT SHALL BE INCLUDED IN THE PRICE OF THE BASE MATERIAL.
- 334-1-13B INCLUDES TACK COAT BETWEEN ASPHALT CONCRETE LAYERS.
- 425-1-XX ALL WORK SHALL BE IN ACCORDANCE WITH INDIAN RIVER DEPARTMENT OF UTILITY SERVICE STANDARDS. COST TO INCLUDE MODIFICATION TO EXISTING CONTROL STRUCTURE.
- 522-XX ALL CONCRETE SHALL BE 6" FIBER REINFORCED AND 3000 PSI STRENGTH.
- 522-2 PEDESTRIAN RAMPS ARE TO BE INCLUDED IN PRICE OF SIDEWALK. ALL SIDEWALK JOINTS ARE TO BE SAWCUT AS PER FDOT SPECIFICATIONS. TOOLED JOINTS WILL NOT BE PERMITTED. CONCRETE MIX SHALL INCLUDE FIBER REINFORCEMENT AT 1.0 LB/CY.
- 527-2 DETECTABLE WARNING SHALL BE CAST IN-PLACE, SURFACE APPLIED DETECTABLE WARNING SYSTEMS.
- 570-1-2 COST TO INCLUDE SOD, FERTILIZER, MOWING, WATERING, TOOLS, EQUIPMENT, PEGGING, LABOR AND ALL INCIDENTAL ITEMS NECESSARY.
- 700-25-1 COST TO INCLUDE REMOVAL OF EXISTING EMPLOYEE ENTRANCE SIGN. CONTRACTOR TO COORDINATE WITH INDIAN RIVER COUNTY PUBLIC WORKS ON FINAL WAY-FINDING SIGN DESIGN.
- 700-25-2 COST TO INCLUDE REMOVAL OF EXISTING EMERGENCY ROOM WAY FINDING SIGN. TEMPORARY WAY-FINDING SIGNAGE FOR EMERGENCY ROOM ENTRANCE MUST BE PROVIDED DURING CONSTRUCTION AND INCLUDED IN PAY ITEM. CONTRACTOR TO COORDINATE WITH INDIAN RIVER COUNTY PUBLIC WORKS ON TEMPORARY / FINAL WAY-FINDING SIGN DESIGN AND LOCATION.

ALL PAVEMENT MILLING CREATED IN CONJUNCTION WITH THIS PROJECT SHALL BE DELIVERED TO THE INDIAN RIVER COUNTY ROAD AND BRIDGE DEPARTMENT LOCATED AT 4550 41st STREET, VERO BEACH, FL.

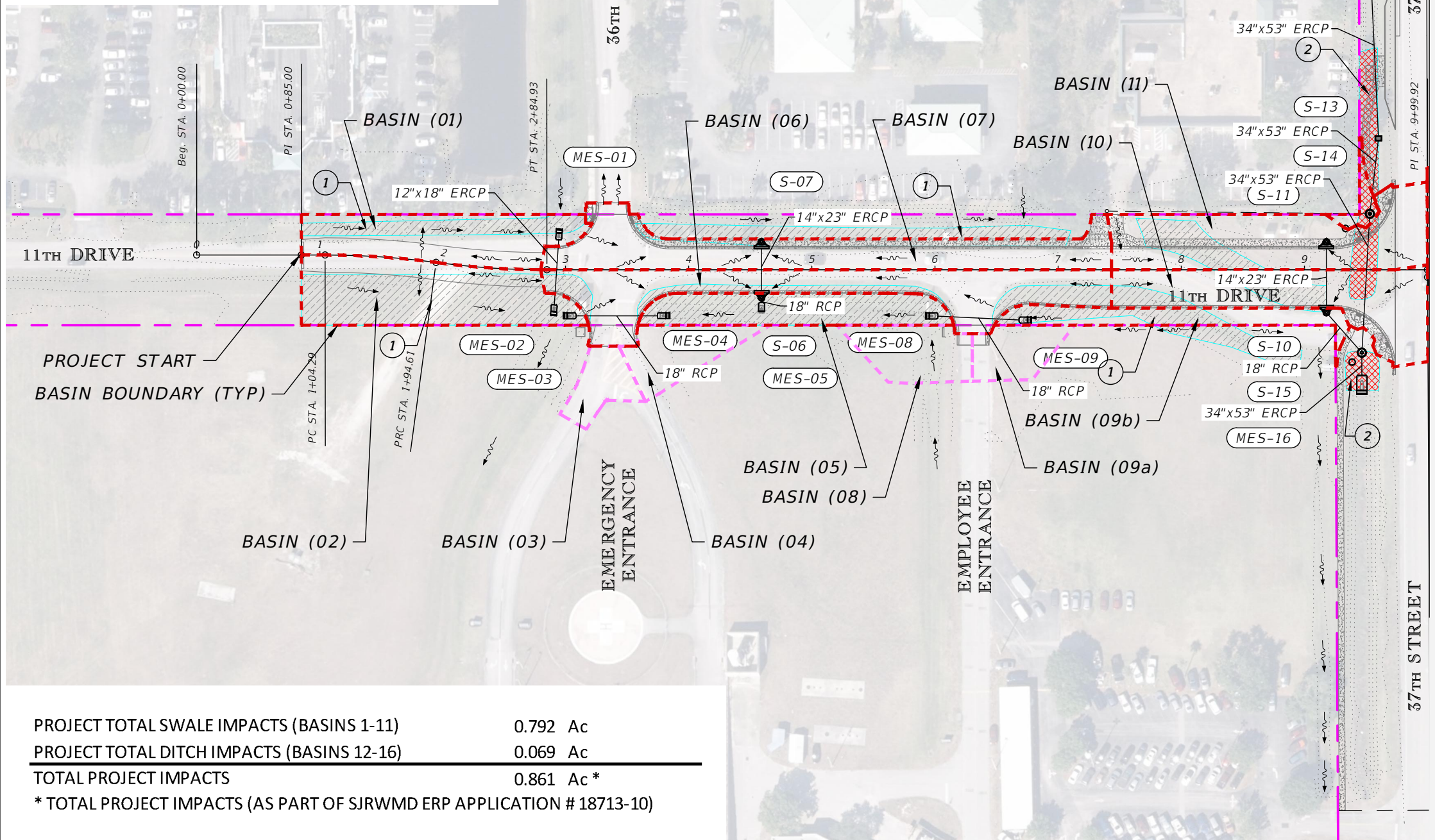
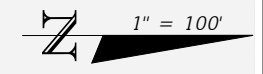
COST OF PEGGING SOD SHALL BE INCLUDED IN PERFORMANCE TURF UNIT COST.

REFER TO TRAFFIC SIGNALIZATION PLANS FOR SIGNALIZATION ITEM FOOTNOTES

ELECTRIC POWER POLES TO BE REMOVED / INSTALLED SHALL BE PROVIDED BY FRANCHISE UTILITY.

R E V I S I O N S				AARON STANTON, P.E. P.E. LICENSE NUMBER 72460 MBV ENGINEERING, INC. 1835 20th STREET VERO BEACH, FL 32960 CERTIFICATE OF AUTHORIZATION 3728	INDIAN RIVER COUNTY			<i>SUMMARY OF PAY ITEMS</i>	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		DEPARTMENT OF PUBLIC WORKS/ENGINEERING DIVISION				4
----	-----	----	-----		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
				11th DRIVE	INDIAN RIVER	IRC: 2001 FDOT: N/A			

ROADWAY BASINS (11th Drive)				
BASIN	Contributing Area (Ac)	Proposed Impervious (Ac)	Proposed Pervious (Ac)	Ditch/Swale Impacts (Ac)
1	0.192	0.063	0.129	0.064
2	0.250	0.063	0.187	0.204
3	0.054	0.054	0.000	
4	0.085	0.012	0.074	
5	0.143	0.000	0.143	0.143
6	0.305	0.305	0.000	0.078
7	0.299	0.299	0.000	0.121
8	0.093	0.010	0.083	
9a	0.065	0.009	0.055	
9b	0.096	0.000	0.096	0.096
10	0.237	0.237	0.000	0.020
11	0.279	0.199	0.080	0.066



PROJECT TOTAL SWALE IMPACTS (BASINS 1-11)	0.792 Ac
PROJECT TOTAL DITCH IMPACTS (BASINS 12-16)	0.069 Ac
<b>TOTAL PROJECT IMPACTS</b>	<b>0.861 Ac*</b>
* TOTAL PROJECT IMPACTS (AS PART OF SJRWMD ERP APPLICATION # 18713-10)	

**LEGEND**

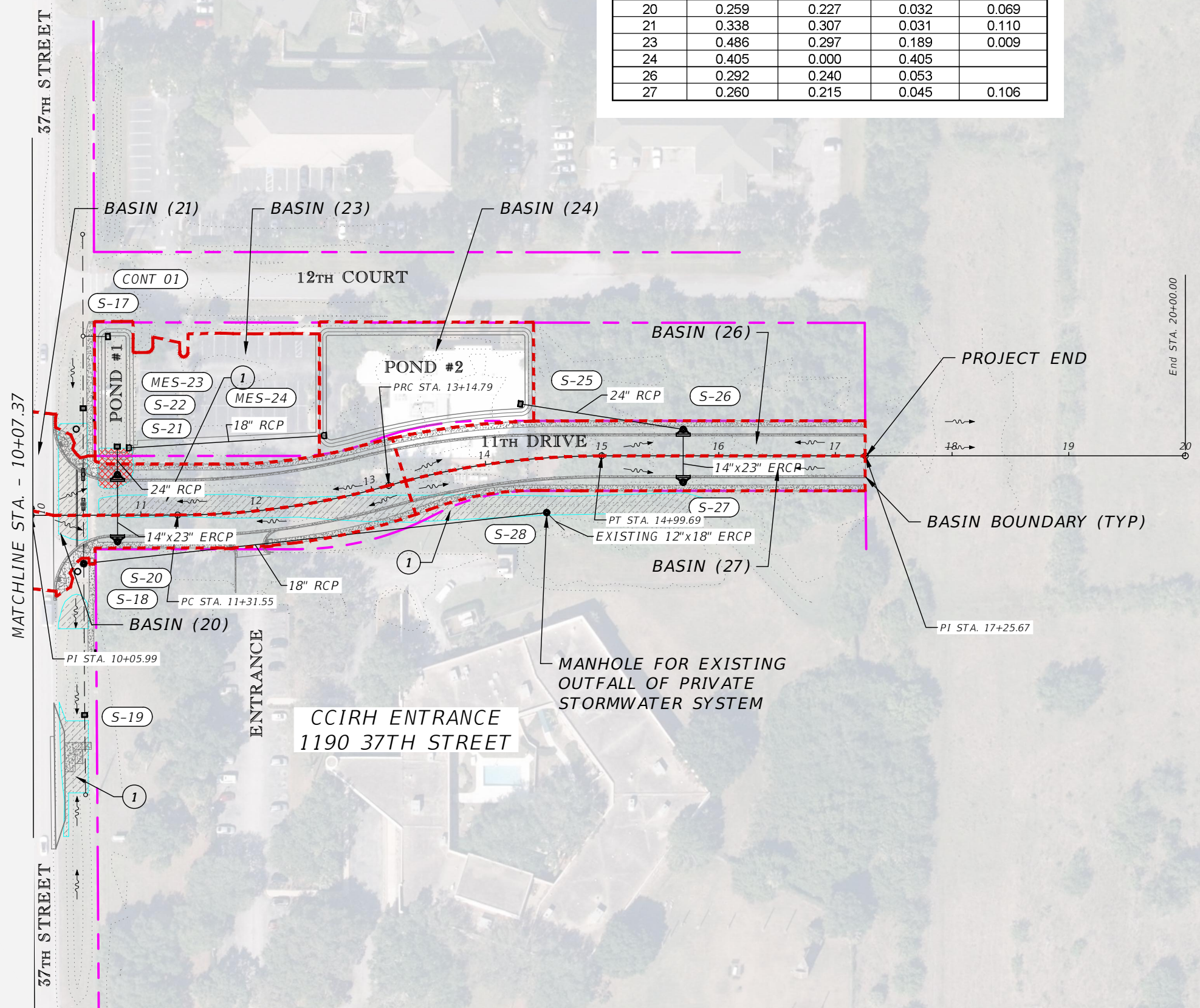
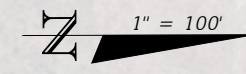
① SWALE IMPACTS

② DITCH IMPACTS

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DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
					11th DRIVE	INDIAN RIVER	IRC: 2001 FDOT: N/A	DRAINAGE PLAN - 11TH DRIVE

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ROADWAY BASINS (11th Drive)				
BASIN	Contributing Area (Ac)	Proposed Impervious (Ac)	Proposed Pervious (Ac)	Ditch/Swale Impacts (Ac)
20	0.259	0.227	0.032	0.069
21	0.338	0.307	0.031	0.110
23	0.486	0.297	0.189	0.009
24	0.405	0.000	0.405	
26	0.292	0.240	0.053	
27	0.260	0.215	0.045	0.106



LEGEND	
①	SWALE IMPACTS
②	DITCH IMPACTS

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

AARON STANTON, P.E.  
P.E. LICENSE NUMBER 72460  
MBV ENGINEERING, INC.  
1835 20th STREET  
VERO BEACH, FL 32960  
CERTIFICATE OF AUTHORIZATION 3728

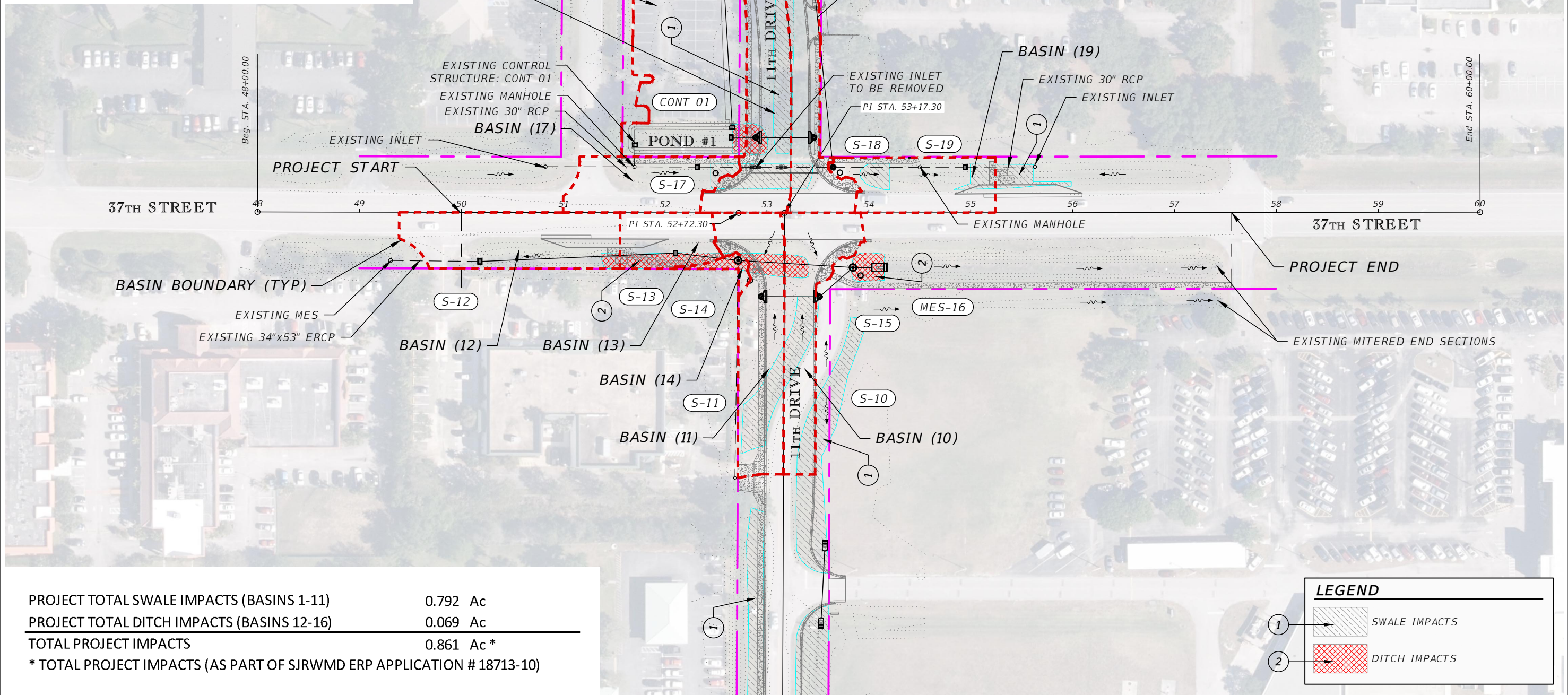
INDIAN RIVER COUNTY		
DEPARTMENT OF PUBLIC WORKS/ENGINEERING DIVISION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
11th DRIVE	INDIAN RIVER	IRC: 2001 FDOT: N/A

**DRAINAGE PLAN - 11TH DRIVE**

SHEET NO.  
6

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ROADWAY BASINS (37th Street)				
Structure ID	Contributing Area (Ac)	Proposed Impervious (Ac)	Proposed Pervious (Ac)	Ditch/Swale Impacts (Ac)
10	0.237	0.237	0.000	0.020
11	0.279	0.199	0.080	0.066
12	0.261	0.174	0.087	0.006
13	0.115	0.082	0.033	0.031
14	0.018	0.000	0.018	0.013
16	0.000	0.000	0.000	0.019
17	0.181	0.082	0.099	0.008
19	0.181	0.086	0.095	0.052
20	0.259	0.227	0.032	0.069
21	0.338	0.307	0.031	0.110
23	0.486	0.297	0.189	
24	0.405	0.000	0.405	0.009



PROJECT TOTAL SWALE IMPACTS (BASINS 1-11)	0.792 Ac
PROJECT TOTAL DITCH IMPACTS (BASINS 12-16)	0.069 Ac
<b>TOTAL PROJECT IMPACTS</b>	<b>0.861 Ac*</b>
* TOTAL PROJECT IMPACTS (AS PART OF SJRWMD ERP APPLICATION # 18713-10)	

**LEGEND**

1 [Hatched Box] SWALE IMPACTS

2 [Cross-hatched Box] DITCH IMPACTS

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

AARON STANTON, P.E.  
P.E. LICENSE NUMBER 72460  
MBV ENGINEERING, INC.  
1835 20th STREET  
VERO BEACH, FL 32960  
CERTIFICATE OF AUTHORIZATION 3728

INDIAN RIVER COUNTY		
DEPARTMENT OF PUBLIC WORKS/ENGINEERING DIVISION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
11th DRIVE	INDIAN RIVER	IRC: 2001 FDOT: N/A

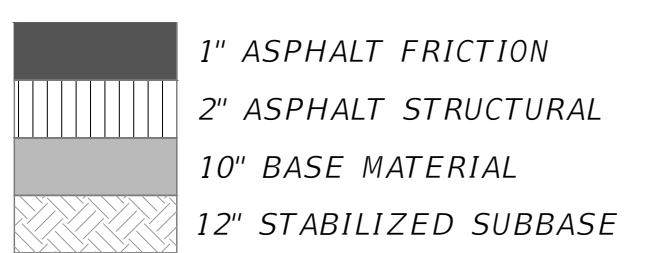
**DRAINAGE PLAN - 37TH STREET**

SHEET NO.
7

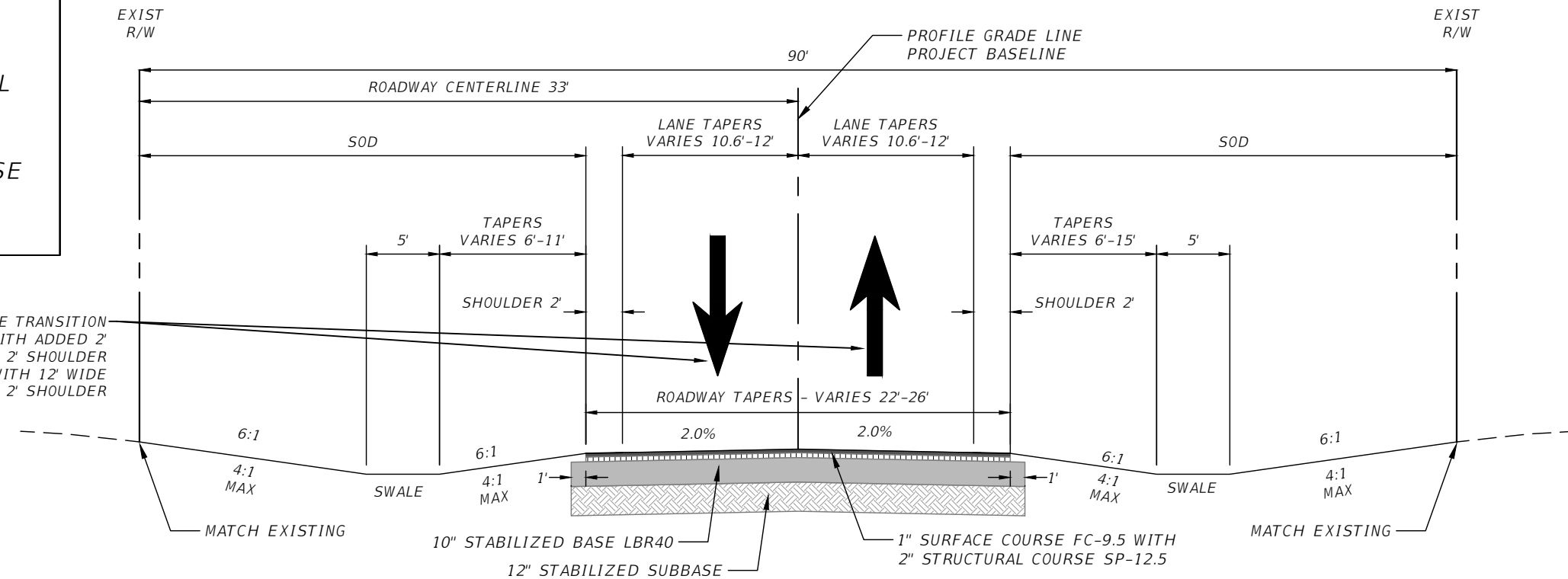
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# SECTION LEGEND



1" ASPHALT FRICTION  
 2" ASPHALT STRUCTURAL  
 10" BASE MATERIAL  
 12" STABILIZED SUBBASE

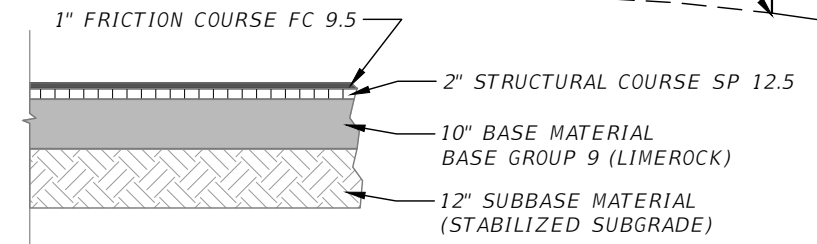
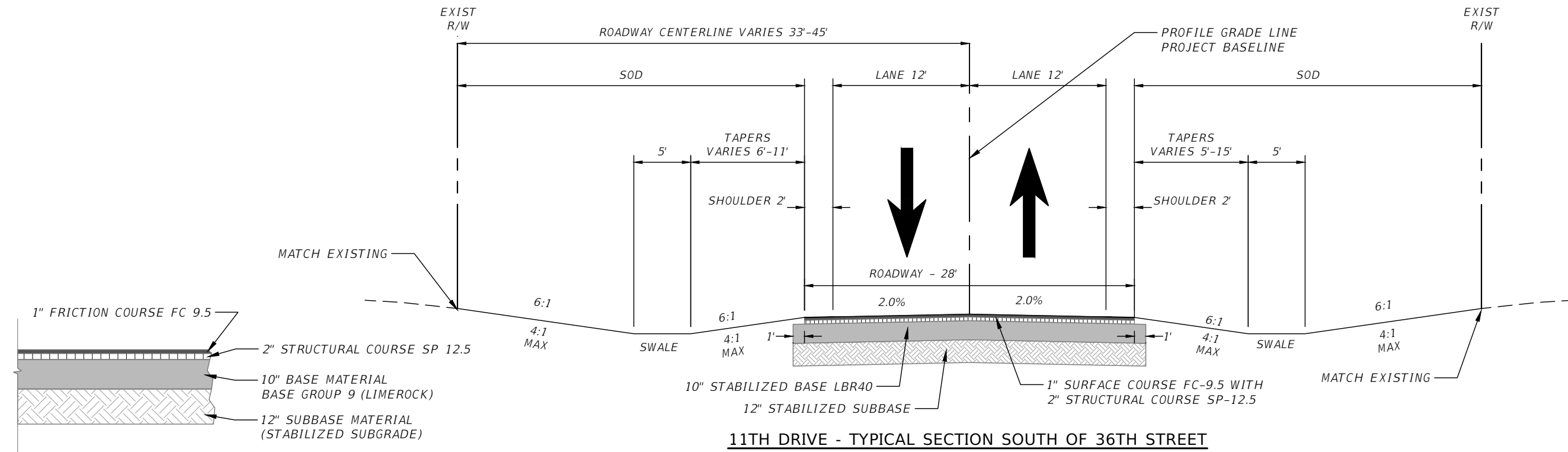


LANE TRANSITION  
 TAPER FROM EXISTING WIDTH WITH ADDED 2'  
 SHOULDER TO 12.0' WIDE WITH 2' SHOULDER  
 AT STATION 1+04.29 TAPER ENDS WITH 12' WIDE  
 LANES WITH 2' SHOULDER

**11TH DRIVE - TYPICAL SECTION SOUTH OF 36TH STREET  
 (TAPER PORTION TO MATCH EXISTING)**

Scale: 1" = 10'  
 STATION: 0+85.00 - 1+04.29

**DESIGN SPEED 40MPH**



**TYPICAL PAVEMENT STRUCTURAL SECTION**  
 SCALE: NONE

**11TH DRIVE - TYPICAL SECTION SOUTH OF 36TH STREET**

Scale: 1" = 10'  
 STATION: 1+04.29 - 2+82.45

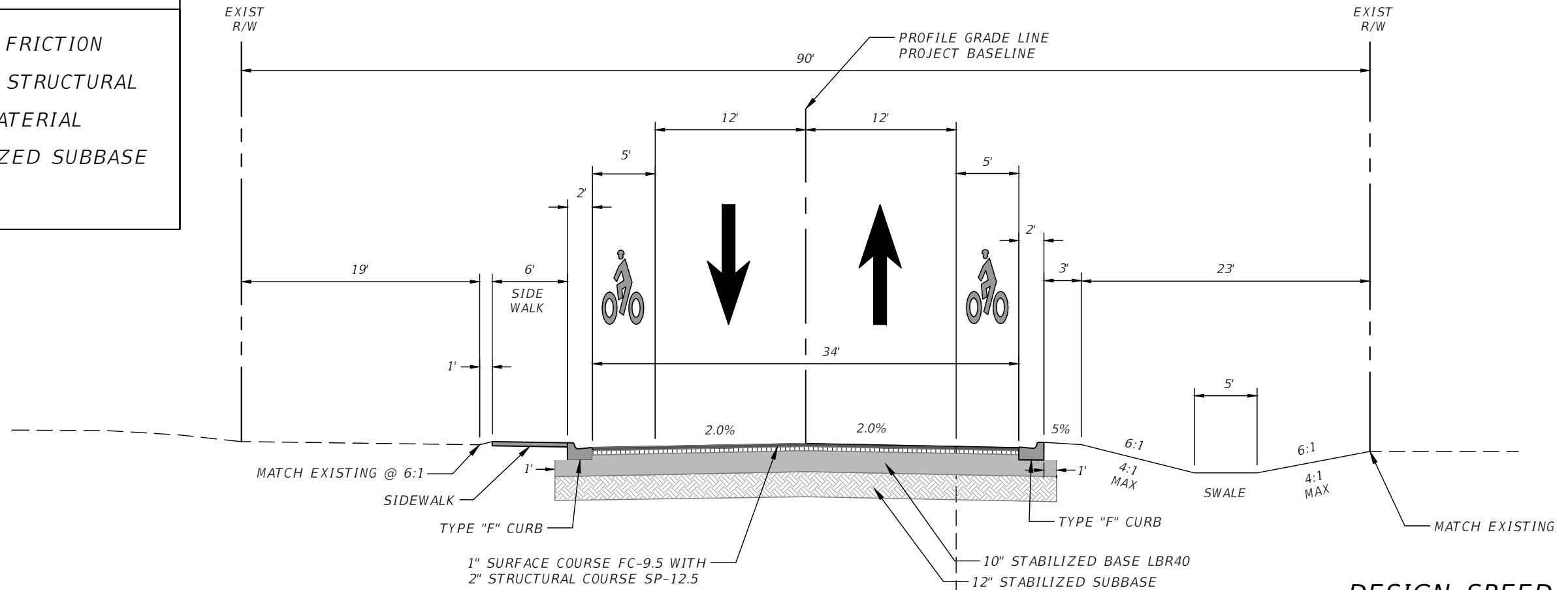
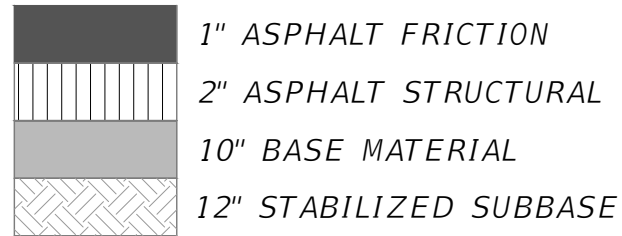
**DESIGN SPEED 40MPH**

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DATE	DESCRIPTION	DATE	DESCRIPTION		DEPARTMENT OF PUBLIC WORKS/ENGINEERING DIVISION			
					ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
					11th DRIVE	INDIAN RIVER	IRC: 2001 FDOT: N/A	

*TYPICAL SECTIONS*

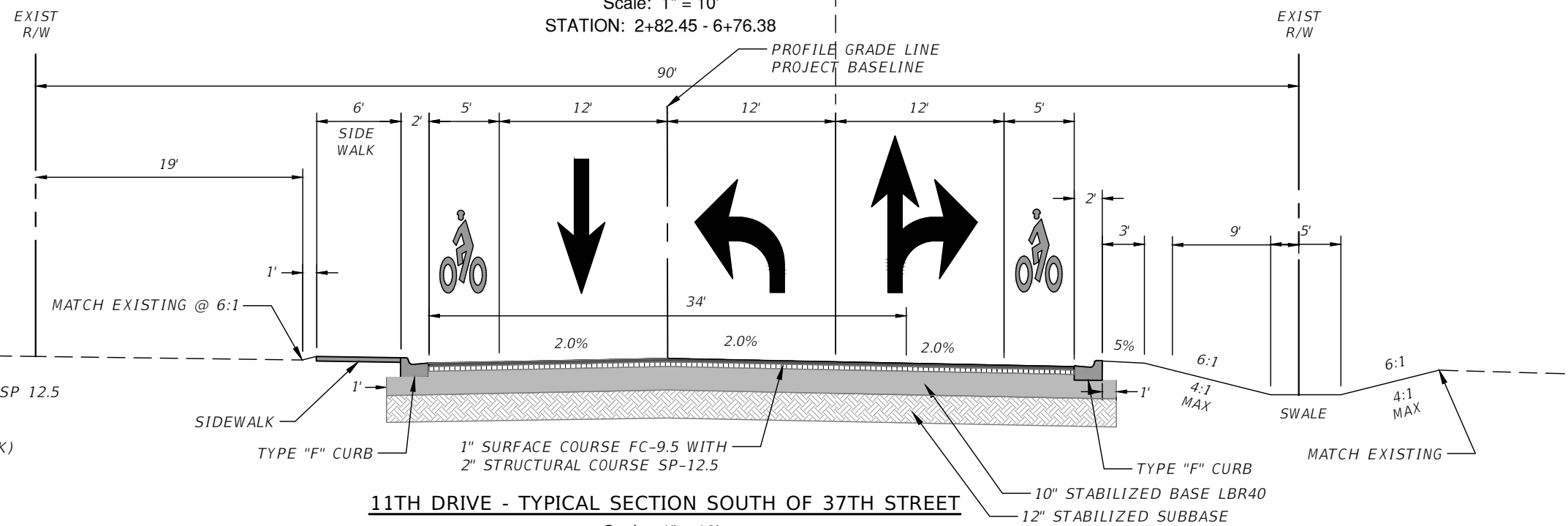
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# SECTION LEGEND



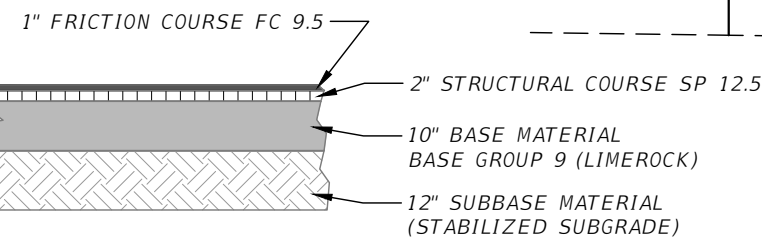
11TH DRIVE - TYPICAL SECTION SOUTH OF 37TH STREET

Scale: 1" = 10'  
STATION: 2+82.45 - 6+76.38



11TH DRIVE - TYPICAL SECTION SOUTH OF 37TH STREET

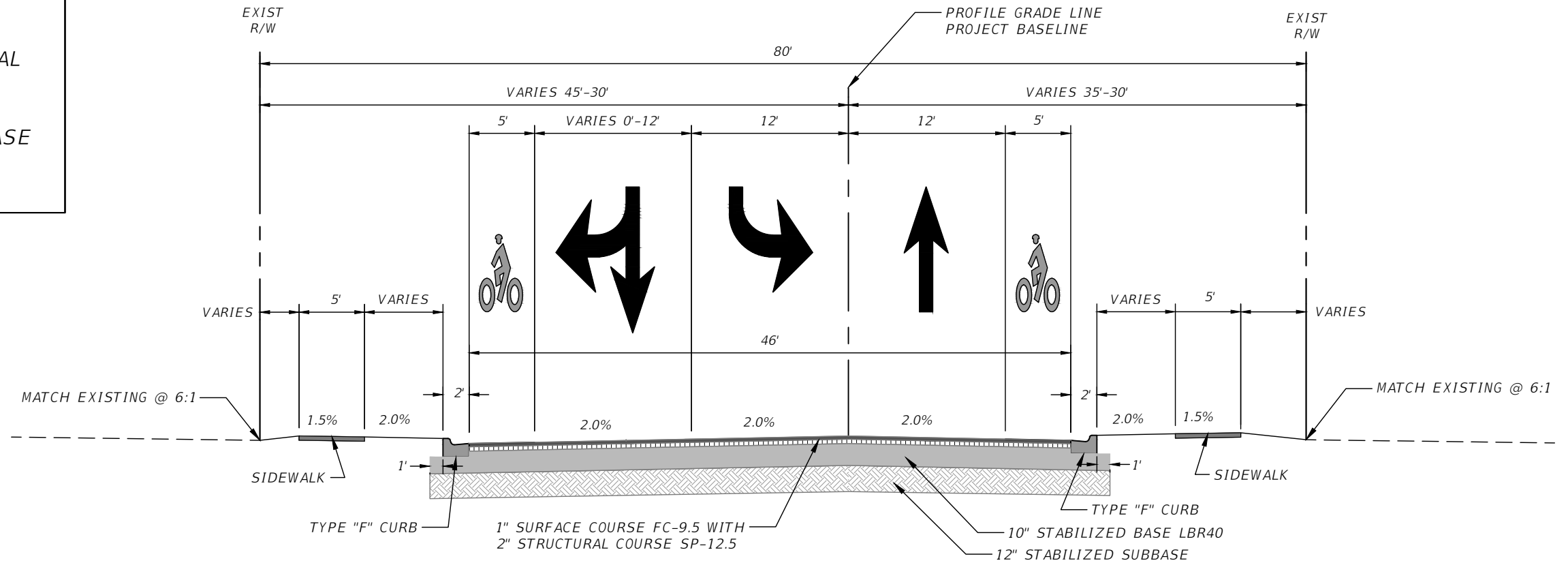
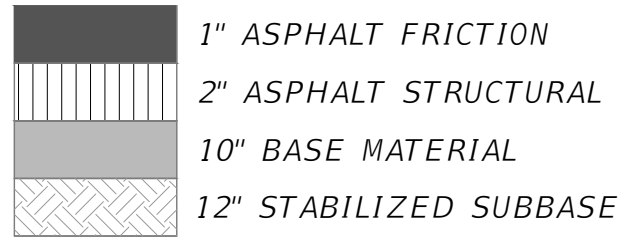
Scale: 1" = 10'  
STATION: 6+76.38 - 9+73.81



TYPICAL PAVEMENT STRUCTURAL SECTION  
SCALE: NONE

REVISIONS				AARON STANTON, P.E. P.E. LICENSE NUMBER 72460 MBV ENGINEERING, INC. 1835 20th STREET VERO BEACH, FL 32960 CERTIFICATE OF AUTHORIZATION 3728	INDIAN RIVER COUNTY DEPARTMENT OF PUBLIC WORKS/ENGINEERING DIVISION			SHEET NO.  9
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
					11th DRIVE	INDIAN RIVER	IRC: 2001 FDOT: N/A	

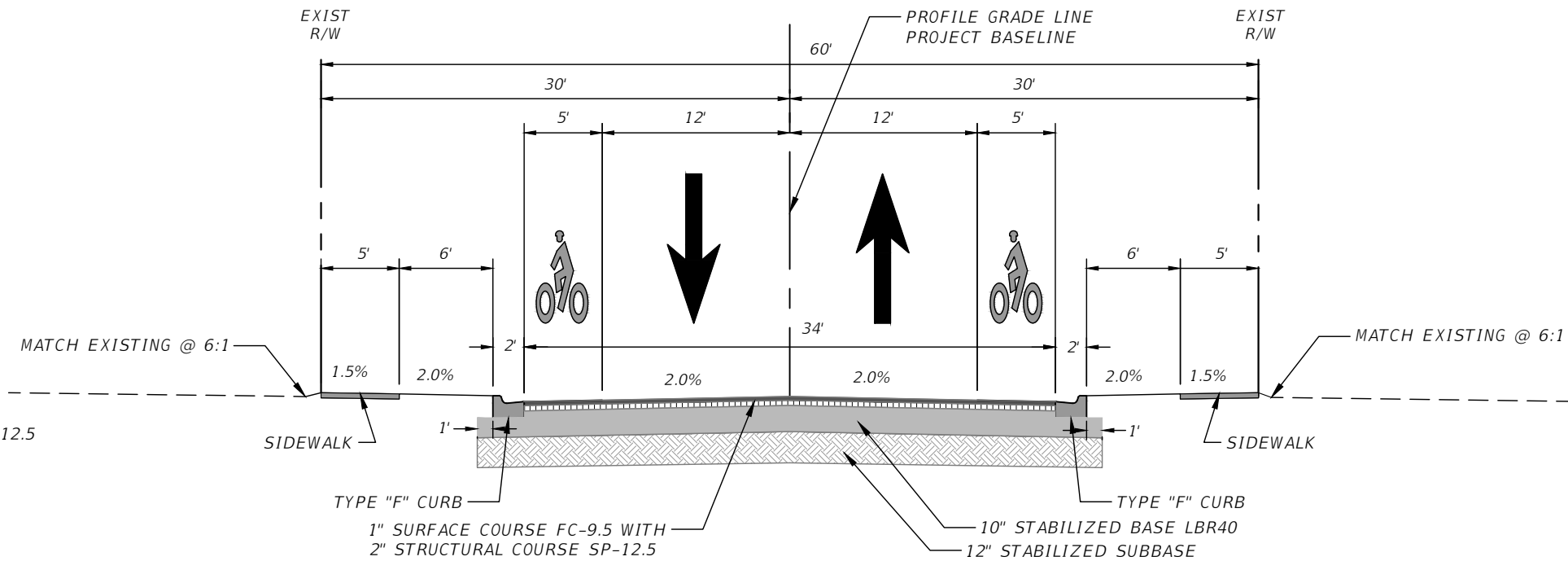
# SECTION LEGEND



**11TH DRIVE - TYPICAL SECTION NORTH OF 37TH STREET**

Scale: 1" = 10'  
STATION: 10+23.06 - 12+84.76

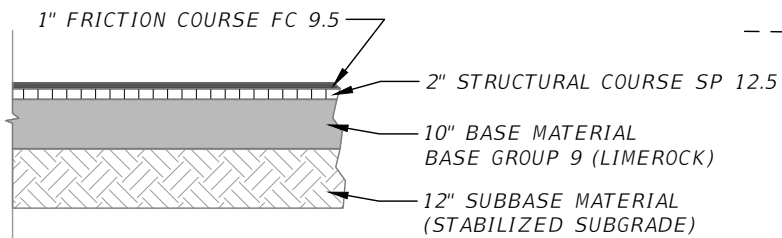
**DESIGN SPEED 40MPH**



**11TH DRIVE - TYPICAL SECTION NORTH OF 37TH STREET**

Scale: 1" = 10'  
STATION: 12+84.76 - 17+26.55

**DESIGN SPEED 40MPH**



**TYPICAL PAVEMENT STRUCTURAL SECTION**

SCALE: NONE

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

AARON STANTON, P.E.  
P.E. LICENSE NUMBER 72460  
MBV ENGINEERING, INC.  
1835 20th STREET  
VERO BEACH, FL 32960  
CERTIFICATE OF AUTHORIZATION 3728

INDIAN RIVER COUNTY		
DEPARTMENT OF PUBLIC WORKS/ENGINEERING DIVISION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
11th DRIVE	INDIAN RIVER	IRC: 2001 FDOT: N/A

**TYPICAL SECTIONS**

SHEET NO.  
**10**

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

PAY ITEM NO.	DESCRIPTION	UNIT	PROJECT QUANTITY
<b>ROADWAY PAY ITEMS</b>			
101-1	MOBILIZATION	LS	1
102-1	MAINTENANCE OF TRAFFIC	LS	1
104-10-3	SEDIMENT BARRIER	LF	4,333
110-1-1	CLEARING AND GRUBBING	LS	1
110-4-10	REMOVAL OF EXISTING CONCRETE PAVEMENT	SY	133
120-1	REGULAR EXCAVATION	CY	2,793
120-6	EMBANKMENT	CY	3,444
160-4	TYPE B STABILIZATION	SY	11,031
285-709	OPTIONAL BASE, GROUP 09	SY	11,031
300-1	ASPHALT EMULSION, TYPE CSS-1h - pymt. will be based on actual quantity	GAL	1,204
300-2	CEMENT TYPE 1 OR TYPE 2 - pymt. will be based on actual quantity	TN	60
327-70-8	MILLING EXISTING ASPHALTIC PAVEMENT (AVE. 2-1/2" DEPTH)	SY	2,118
334-1-13	SUPERPAVE ASPHALT CONCRETE TRAFFIC C (SP12.5, 2" LIFT)	TN	1,079
337-7-82	ASPHALT CONCRETE FRICTION COURSE TRAFFIC C (FC9.5, 1" LIFT)	TN	539.6
425-11	MODIFY EXISTING DRAINAGE STRUCTURE (I.E. CONTROL STRUCTURE)	EA	1.0
425-1-34	INLET, CURB, TYPE P-4, <10'	EA	8
425-1-54	INLET, DITCH BOTTOM, TYPE D, <10'	EA	4
425-1-55	INLET, DITCH BOTTOM, TYPE E, <10'	EA	2
425-2-41	MANHOLE, P-7, <10'	EA	4
430-175-118	PIPE CULVERT, OPTIONAL MATERIAL, ROUND, 18" S/CD (RCP)	LF	689
430-175-124	PIPE CULVERT, OPTIONAL MATERIAL, ROUND, 24" S/CD (RCP)	LF	167
430-175-215	PIPE CULVERT, OPTIONAL MATERIAL, ELLIPTICAL, 12"X18" S/CD (ERCP)	LF	59
430-175-218	PIPE CULVERT, OPTIONAL MATERIAL, ELLIPTICAL, 14"X23" S/CD (ERCP)	LF	208
430-175-242	PIPE CULVERT, OPTIONAL MATERIAL, ELLIPTICAL, 34"X53" S/CD (ERCP)	LF	390
430-982-125	MITERED END SECTION, OPTIONAL ROUND, 18" CD	EA	3
430-984-125	MITERED END SECTION, OPTIONAL ROUND, 18" SD	EA	4
430-984-623	MITERED END SECTION, OPTIONAL - ELLIPTICAL/ARCH, 15" SD	EA	2
430-984-638	MITERED END SECTION, OPTIONAL - ELLIPTICAL/ARCH, 42" SD	EA	1
400-1-2	CONCRETE CLASS I, ENDWALL (PIPE 18")	CY	1.30
520-1-10	CONCRETE CURB AND GUTTER, TYPE F	LF	2,800
520-2-4	CONCRETE CURB, TYPE D	LF	43
522-2	CONCRETE SIDEWALK AND DRIVEWAYS (FIBER REINFORCE) (6" THICK)	SY	1,821
522-4	BUS SHELTER PAD - CONCRETE (6" THICK FIBER REINFORCE)	SY	75
527-2	DETECTABLE WARNINGS (YELLOW)	SF	113

PAY ITEM NO.	DESCRIPTION	UNIT	PROJECT QUANTITY
<b>ROADWAY PAY ITEMS</b>			
570-1-2	PERFORMANCE TURF, SOD (MATCH EXISTING)	SY	3,300
700-1-11	SINGLE POST SIGN, UP TO 12 SF	AS	30
700-1-50	SINGLE POST SIGN, RELOCATE, UP TO 12 SF	AS	4
700-3-504	SINGLE POST SIGN, RELOCATE, +31 SF	EA	1
700-3-601	SINGLE POST SIGN, REMOVE, UP TO 12 SF	EA	6
700-3-603	SINGLE POST SIGN, RELOCATE, 21-30 SF, BACK-TO-BACK	EA	1
700-25-1	HOSPITAL EMPLOYEE ENTRANCE SIGN WITH POWER	EA	1
700-25-2	HOSPITAL EMERGENCY ROOM ENTRANCE SIGN WITH POWER	EA	1
706-1-1	RAISED PAVEMENT MARKER	EA	57
711-11-101	THERMOPLASTIC, PAVEMENT MARKINGS, STANDARD, SOLID WHITE, 6"	GM	1
711-11-103	THERMOPLASTIC, PAVEMENT MARKINGS, STANDARD SOLID WHITE, 12"	GM	0.06
711-11-125	THERMOPLASTIC, PAVEMENT MARKINGS STANDARD, SOLID WHITE, 24"	LF	128
711-11-141	THERMOPLASTIC, PAVEMENT MARKINGS STANDARD, SKIP (2'-4') WHITE, 6"	GM	0.05
711-11-160	THERMOPLASTIC, PAVEMENT MARKINGS, MESSAGE	EA	16
711-11-170	THERMOPLASTIC, PAVEMENT MARKINGS, ARROW	EA	25
711-11-241	THERMOPLASTIC, PAVEMENT MARKINGS, STANDARD, SOLID YELLOW, 6"	GM	0.60
715-4-50	LIGHT POLE COMPLETE, INSTALL	EA	10
715-4-70	LIGHT POLE COMPLETE, REMOVE	EA	4
751-35-11	BUS SHELTER, F&I, UP TP 50	EA	2
1080-21500	UTILITY FIXTURE, VALVE/METER BOX, ADJUST	EA	20
1644-800	FIRE HYDRANT, RELOCATE	EA	1
	REPLACEMENT TREES (NORTH 11TH DR)	LS	1
	ELECTRIC POWER POLE & OHW SYSTEM, RELOCATE (37TH STREET)	EA	2
	ELECTRIC JUNCTION BOX, UNDERGROUND, RELOCATE (37TH STREET)	EA	2
	ELECTRIC JUNCTION BOX, UNDERGROUND, RELOCATE (11TH DR & 36TH ST)	EA	1
	ELECTRIC POWER POLE & OHW SYSTEM, REMOVE (11TH DR & 36TH STREET)	EA	1
	UNDERGROUND UTILITY -MISC., RELOCATE	LS	1
	HOSPITAL WELLHEAD, CAP AND RELOCATION	EA	1
	HOSPITAL EMPLOYEE ENTRANCE SIGN, REMOVAL	EA	1
	HOSPITAL EMERGENCY ROOM ENTRANCE SIGN, REMOVAL	EA	1
	TREES TO BE REMOVED (PALMS)	EA	7
	TREES TO BE REMOVED (OAKS - 10" - 40")	EA	13
	SHRUBS TO BE REMOVED	LS	1

REVISIONS				AARON STANTON, P.E. P.E. LICENSE NUMBER 72460 MBV ENGINEERING, INC. 1835 20th STREET VERO BEACH, FL 32960 CERTIFICATE OF AUTHORIZATION 3728	INDIAN RIVER COUNTY DEPARTMENT OF PUBLIC WORKS/ENGINEERING DIVISION			<i>SUMMARY OF QUANTITIES</i>	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
---	---	---	---		11th DRIVE	INDIAN RIVER	IRC: 2001 FDOT: N/A		11



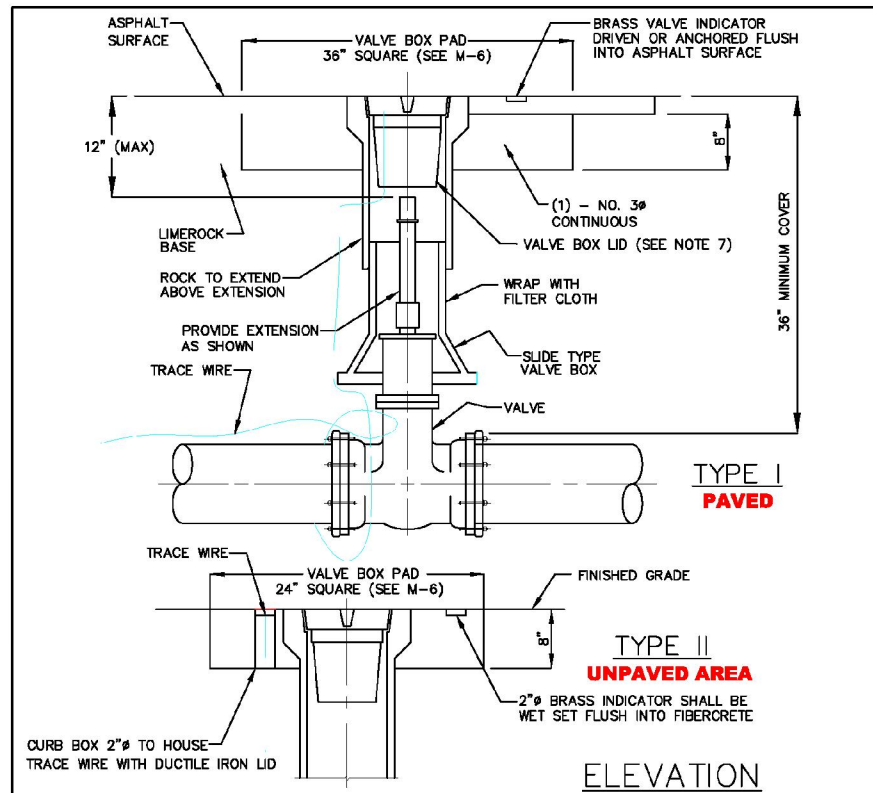
**GENERAL NOTES:**

1. GOVERNING SPECIFICATIONS: FLORIDA DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" DATED JULY 2022 AND INDIAN RIVER COUNTY STANDARD SPECIFICATIONS.
2. CONSTRUCTION DETAILS SHALL BE IN ACCORDANCE WITH FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD PLANS FY 2022-2023.
3. ALL STATIONS AND OFFSETS ARE REFERENCED TO BASELINE OF CONSTRUCTION.
4. ALL COSTS ASSOCIATED WITH COORDINATION AND DELIVERY SHALL BE INCLUDED WITHIN THE MILLING EXISTING ASPHALT PAVEMENT PAY ITEM.
5. ALL PROPOSED DRAINAGE STRUCTURES SHALL HAVE CAST IRON GRATES WITH A CHAIN ATTACHED TO THE STRUCTURE, UNLESS OTHERWISE SPECIFIED. IF CAST IRON IS NOT AVAILABLE THEN A HOT-DIP GALVANIZED H20 RATED STEEL GRATE WILL BE REQUIRED. THE CONTRACTOR SHALL SUBMIT TO THE COUNTY A VIDEO RECORDING OF THE NEWLY INSTALLED CULVERTS AS PER SPECIFICATION 430-4.8 PIPE INSPECTIONS. THE CONTRACTOR SHALL DEWATER INSTALLED PIPE, REMOVE ALL SILT, DEBRIS, ETC. AND SCHEDULE VISUAL INSPECTION TO BE PERFORMED BY THE COUNTY.
6. ALL DISTURBED R/W SHALL BE SODDED WITHIN SEVEN DAYS OF FINAL GRADING. ALL SOD PLACED ON A SLOPE STEEPER THAN 4:1 SHALL BE PEGGED.
7. THE CONTRACTOR WILL RESTORE ALL AREAS DISTURBED BY THIS CONSTRUCTION TO A CONDITION EQUAL TO, OR BETTER THAN THAT NOW EXISTING.
8. ITEMS IN CONFLICT WITH CONSTRUCTION SUCH AS EXISTING CURBS AND GUTTERS, SIDEWALKS, DRAINAGE STRUCTURES, PAVEMENT AND BASE AND EXCESS EXCAVATIONS ARE TO BE REMOVED BY CONTRACTOR AND DISPOSED OF IN A LEGAL AND PROPER MANNER AWAY FROM THE JOB SITE AT THE CONTRACTOR'S EXPENSE, UNLESS THE ITEMS ARE SPECIFIED TO BE REUSED ON THE PROJECT.
9. EXISTING TREES WITHIN THE PROJECT LIMITS ARE INTENDED TO REMAIN, UNLESS THEY ARE IN DIRECT CONFLICT WITH THE PROPOSED IMPROVEMENTS OR INDICATED TO BE REMOVED. CONTRACTOR SHALL TAKE DUE CARE AS TO PROTECT EXISTING TREES WITHIN THE PROJECT LIMITS THAT ARE NOT IN DIRECT CONFLICT WITH THE IMPROVEMENTS. THE CONTRACTOR SHALL REMOVE ALL EXOTIC VEGETATION LOCATED WITH THE PROJECT LIMITS WITHIN PUBLIC RIGHT OF WAY. COST OF TREE PRESERVATION SHALL BE INCLUDED WITHIN PAY ITEM 104-2 AND EXOTIC VEGETATION REMOVAL SHALL BE INCLUDED WITHIN PAY ITEM 110-1-1.
10. DRIVEWAYS THAT ARE DISTURBED ARE TO BE RECONSTRUCTED TO THEIR ORIGINAL OR BETTER CONDITION, UNLESS OTHERWISE STATED ON PLANS. PROPOSED TURNOUTS (DRIVEWAYS) TO BE CONSTRUCTED AS PER FDOT INDEX 000-515.
11. DRIVEWAYS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE DETAILS. DRIVEWAYS THAT HAVE EXISTING CONCRETE OR A.C. SHALL HAVE THAT MATERIAL SAW CUT AND REMOVED BEFORE CONSTRUCTING THE DRIVEWAY. EXISTING EARTH DRIVEWAYS THAT ARE TO RECEIVE A.C. DRIVEWAYS SHALL BE GRADED AND COMPACTED TO ACCOMMODATE CONSTRUCTION OF THE DRIVEWAY. ALL DRIVEWAYS SHALL BE CONSTRUCTED WITH A SMOOTH TRANSITION BETWEEN THE ROAD AND THE EXISTING DRIVEWAY.
12. STAGING AND MATERIAL STORAGE SHALL NOT BE CONDUCTED ON ABUTTING PRIVATE PROPERTY WITHOUT WRITTEN AGREEMENT APPROVAL FROM THE OWNER UPON PROJECT COMPLETION, SHOULD CONTRACTOR HAVE STAGED AND/OR STORED MATERIAL ON PRIVATE PROPERTY THE CONTRACTOR SHALL OBTAIN A WRITTEN RELEASE FROM THE PROPERTY OWNER. A COPY OF THE WRITTEN RELEASE SHALL BE PROVIDED TO THE COUNTY.
13. SIDEWALK JOINTS TO BE INSTALLED PER DETAILS ON FDOT INDEX 522-001 FOR ALL SIDEWALKS. ALL JOINTS SHALL BE SAWCUT AS PER FDOT STANDARDS.
14. DETECTABLE WARNING SURFACES SHALL CONSIST OF CAST-IN-PLACE COMPOSITE TACTILE UNITS MANUFACTURED BY ADA SOLUTIONS, INC. (1-800-372-0519) OR APPROVED EQUIVALENT. DETECTABLE WARNING SURFACES SHALL EXTEND TWO FEET FROM BACK OF CURB AND SPAN THE ENTIRE RAMP RUN WIDTH. DETECTABLE WARNING SURFACE COLOR SHALL BE "FEDERAL YELLOW".
15. CLEARING AND GRUBBING - WITHIN THE LIMITS OF CONSTRUCTION, ALL VEGETATION AND ROOT MATERIAL SHALL BE REMOVED.
16. ALL VEGETATION, DEBRIS, A.C., CONCRETE OR OTHER UNSUITABLE MATERIAL SHALL BE DISPOSED OF OFF-SITE BY THE CONTRACTOR IN LEGAL MANNER AT THE CONTRACTOR'S EXPENSE.
17. SOD PLACEMENT SHALL BE AS PER F.D.O.T. INDEX #105. SOD TYPE SHALL MATCH EXISTING GRASS FOR EACH PROPERTY.
18. ANY EXISTING ROADWAY AND/OR UTILITY THAT IS DAMAGED BY THE CONTRACTOR SHALL BE CORRECTED AT THE CONTRACTOR'S EXPENSE.
19. EXISTING DRAINAGE STRUCTURES AND PIPES WITHIN THE CONSTRUCTION LIMITS SHALL REMAIN UNLESS OTHERWISE NOTED.
20. TACK COAT-BITUMINOUS TACK COAT SHALL CONFORM TO THE REQUIREMENTS OF THE FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, 2017 EDITION, SECTION 300 AND SHALL BE APPLIED AT THE RATE OF 0.08 GALLONS PER SQUARE YARD, UNLESS A DIFFERENT RATE IS DIRECTED BY THE ENGINEER. COST INCLUDED IN THE UNIT PRICE FOR ASPHALTIC CONCRETE.
21. SURFACE COURSE - TYPE F.C. 9.5 AND STRUCTURAL COURSE-TYPE S.P. 12.5 SHALL CONFORM TO THE REQUIREMENTS OF THE F.D.O.T. SPECIFICATIONS, 2022-2023 EDITION, SECTION 334, THE MINIMUM COMPACTED THICKNESS TO BE AS NOTED.
22. EMBANKMENT, SUBGRADE, BASE AND ASPHALT ARE "IN PLACE" MEASUREMENTS.
23. THERE SHALL BE NO EXCAVATIONS LEFT OPEN AFTER END OF SHIFT, UNLESS POSITIVELY SHIELDED.
24. ALL CONSTRUCTION EQUIPMENT AND MATERIALS SHALL BE STORED A MINIMUM OF 15' FROM THE EDGE OF PAVEMENT AND SHALL BE PROTECTED BY BARRICADES.
25. THE CONTRACTOR SHALL NOTIFY TRAFFIC ENGINEERING AT (772) 226-1547, 48 HOURS PRIOR TO BEGINNING CONSTRUCTION.
26. GUARANTEE - ALL MATERIAL AND EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR UNDER THIS CONTRACT SHALL BE GUARANTEED FOR A PERIOD OF ONE YEAR FROM THE DATE OF FINAL ACCEPTANCE THEREOF, AGAINST DEFECTIVE MATERIALS, DESIGN AND WORKMANSHIP. UPON RECEIPT OF NOTICE FROM THE OWNER OF FAILURE OF ANY PART OF THE GUARANTEED EQUIPMENT OR MATERIALS DURING THE GUARANTY PERIOD, THE AFFECTED PART, PARTS OR MATERIALS SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR AT NO EXPENSE TO THE OWNER. IN THE EVENT THE CONTRACTOR FAILS TO MAKE THE NECESSARY REPLACEMENT OR REPAIRS WITHIN SEVEN DAYS AFTER NOTIFICATION BY THE OWNER, THE OWNER MAY ACCOMPLISH THE WORK AT THE EXPENSE OF THE CONTRACTOR. (FINAL ACCEPTANCE IS CONSIDERED TO BE FINAL APPROVAL BY THE I.R.C. BOARD OF COUNTY COMMISSIONERS.)
27. ALL CHANGES SHALL BE APPROVED IN WRITING BY INDIAN RIVER COUNTY AND THE ENGINEER OF RECORD.
28. ATTENTION IS DIRECTED TO THE FACT THAT THESE PLANS MAY HAVE BEEN CHANGED IN SIZE BY REPRODUCTION. THIS MUST BE CONSIDERED WHEN OBTAINING SCALED DATA.
29. CONTRACTOR SHALL UTILIZE CONSTRUCTION METHODS AND DEVICES SUCH AS TURBIDITY BARRIERS, SYNTHETIC BALES AND FLOATING SILT BARRIERS WHERE NECESSARY TO COMPLY WITH ALL LOCAL, STATE AND FEDERAL WATER QUALITY STANDARDS.
30. CONTRACTOR SHALL LOWER ALL VALVES, MANHOLE RISERS AND COVERS TO BELOW THE FDR AND EXCAVATION DEPTH. UPON COMPLETION OF THE WORK, VALVES AND MANHOLE RISERS AND COVERS SHALL BE ADJUSTED TO FINISH GRADE.
31. VALVE, MANHOLE AND VAULT ADJUSTMENT SHALL INCLUDE ALL IRC AND COVB UTILITIES ADMINISTRATION REQUIREMENTS INCLUDING CONCRETE PAD, BRASS ID TABS AND WIRE PORTS.
32. POWER POLES ARE REQUIRED TO BE RELOCATED ALONG 37TH STREET TO MEET CLEARANCE SETBACKS. CONTRACTOR SHALL COORDINATE WITH FPL TO HAVE THE POLES RELOCATED AND EXISTING POLES REMOVED. SOME POLES ARE WITH IN THE WORK AREA.

REVISIONS				AARON STANTON, P.E. P.E. LICENSE NUMBER 72460 MBV ENGINEERING, INC. 1835 20th STREET VERO BEACH, FL 32960 CERTIFICATE OF AUTHORIZATION 3728	INDIAN RIVER COUNTY			SHEET NO.  13
DATE	DESCRIPTION	DATE	DESCRIPTION		DEPARTMENT OF PUBLIC WORKS/ENGINEERING DIVISION			
---	---				ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
					11th DRIVE	INDIAN RIVER	IRC: 2001 FDOT: N/A	


*GENERAL NOTES*

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- NOTES**
1. ALL VALVE BOLTS SHALL BE STAINLESS STEEL WITH BRASS NUTS.
  2. PERMANENT LAND MARKERS ARE TO BE USED OVER ALL VALVES AS DIRECTED BY IRC DUS. (SEE M-9)
  3. ALL VALVES REQUIRE A LAT & LONG IN DEGREES & MINUTES
  4. SEE TRACER WIRE DETAIL M-13
  5. RPMS ARE TO BE LOCATED IN ROADWAY FOR ALL VALVES. (SEE W-1)
  6. REFLECTIVE MARKERS FOR: FIRE HYDRANT (WATER) - BLUE  
 WATER MAIN VALVE - WHITE  
 FORCE MAIN VALVE - GREEN  
 REUSE MAIN VALVE - PURPLE  
 BRINE - BROWN
  7. VALVE BOX LID LOCATED IN PAVEMENT SHALL BE A MINIMUM 24 LBS. WITH A MINIMUM 6" (LONG THROAT) LID WITH RAISED LETTERS MARKED: "WATER", "SEWER", "BRINE", OR "REUSE WATER" AS APPLICABLE.
  8. VALVE BOX SHALL COMPLY WITH FDOT STANDARDS AS APPLICABLE.
  9. VALVE BOX EXTENSIONS OVER 36" REQUIRE IRC DUS ENGINEERING APPROVAL.

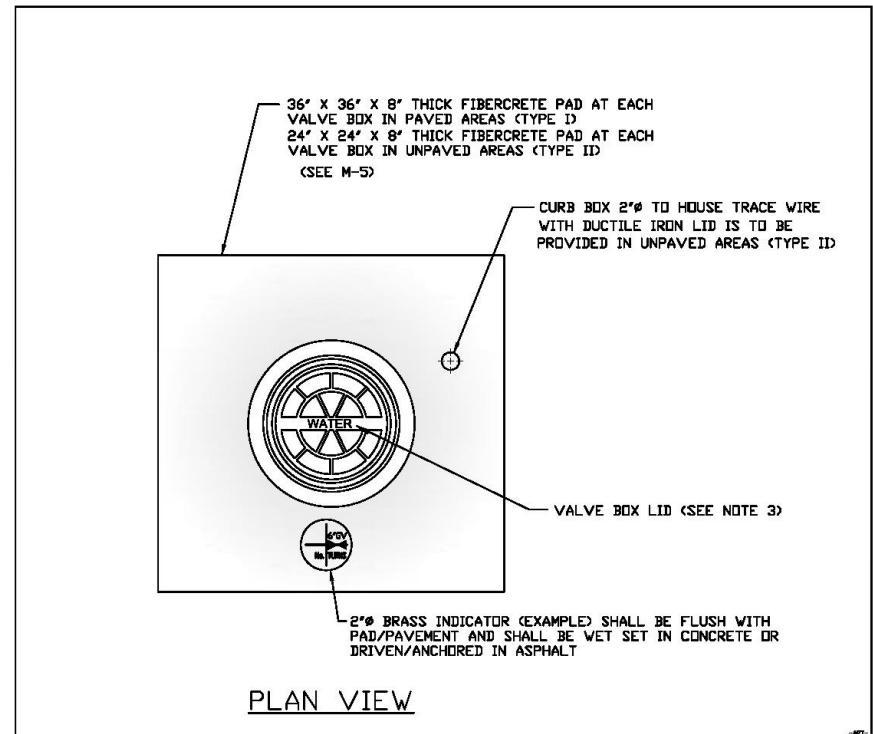
INDIAN RIVER COUNTY DEPARTMENT OF UTILITIES SERVICES



VALVE AND BOX

MARCH 2014

DRAWING NO. M-5



- NOTES**
1. VALVE BOX LID SHALL BE PAINTED: BLUE - WATER  
 GREEN - FORCE MAINS  
 PURPLE - REUSE WATER  
 BRINE - BROWN
  2. IN UNPAVED AREAS (SEE M-5, TYPE II) A BRASS VALVE INDICATOR IS TO BE PROVIDED WITH ENGRAVED DIAGRAM OF VALVE LOCATION AND DESCRIPTION. (SEE EXAMPLE ABOVE) INDICATOR SHALL BE FLUSH WITH PAD/PAVEMENT.
  3. VALVE BOX LID LOCATED IN PAVEMENT SHALL BE A DUCTILE IRON STAY-PUT COVER, MINIMUM 24 LBS. WITH A MINIMUM 6" LONG THROAT AND SHALL BE MARKED WITH RAISED LETTERS: "WATER", "SEWER", "BRINE", OR "REUSE WATER" AS APPLICABLE.
  4. VALVE BOX SHALL COMPLY WITH FDOT STANDARDS AS APPLICABLE.
  5. NO VALVE RINGS ARE TO BE USED.
  6. IN TYPE I, PAVED AREAS, THE VALVE BOX PAD TOP ELEVATION SHALL BE EVEN WITH THE ROCK GRADE TO ALLOW BOTH LAYERS OF ASPHALT TO COVER THE VALVE BOX PAD WITH THE FINAL ASPHALT LAYER FLUSH WITH THE TOP OF THE VALVE BOX.

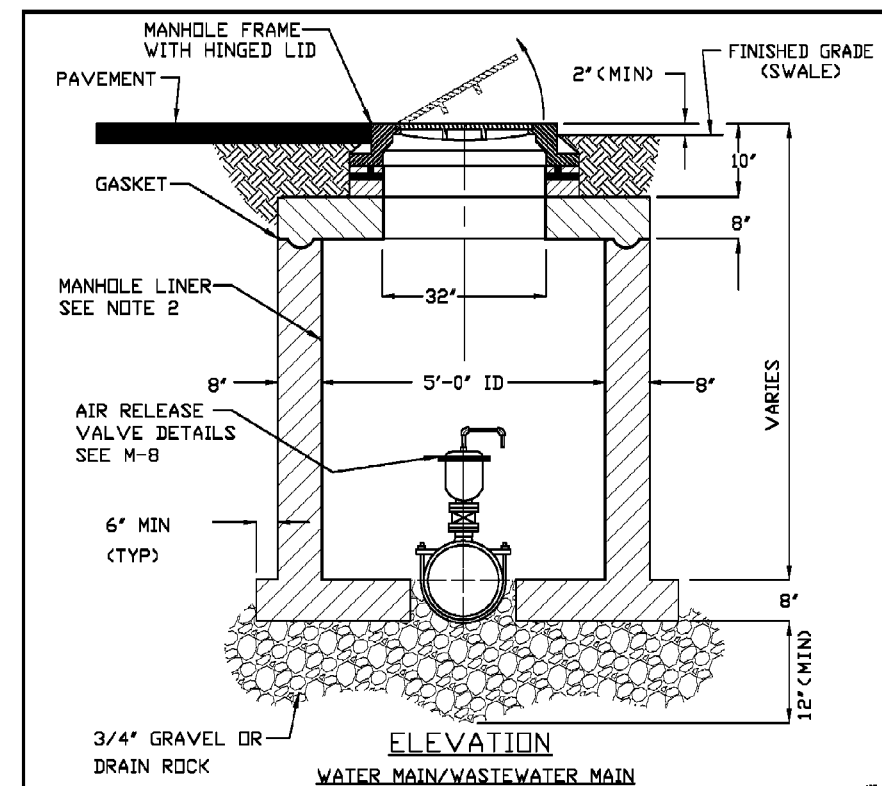
INDIAN RIVER COUNTY DEPARTMENT OF UTILITIES SERVICES



VALVE BOX PAD

MARCH 2014

DRAWING NO. M-6



- NOTES**
1. AIR RELEASE VALVE IS TO BE LOCATED INSIDE A CONCRETE MANHOLE WITH HINGED LID. ALL MATERIALS PER IRC DUS APPROVED MANUFACTURERS' PRODUCT LIST.
  2. MANHOLES FOR SEWER FORCE MAINS SHALL BE LINED. ALL LINING MATERIAL SHALL BE PER INDIAN RIVER COUNTY APPROVED MANUFACTURERS' PRODUCT LIST.
  3. SEE AIR RELEASE VALVE DETAIL (M-8)
  4. SEE TRACER WIRE DETAIL. (M-13)
  5. WASTEWATER LIDS SHALL BE VENTED.

INDIAN RIVER COUNTY DEPARTMENT OF UTILITIES SERVICES



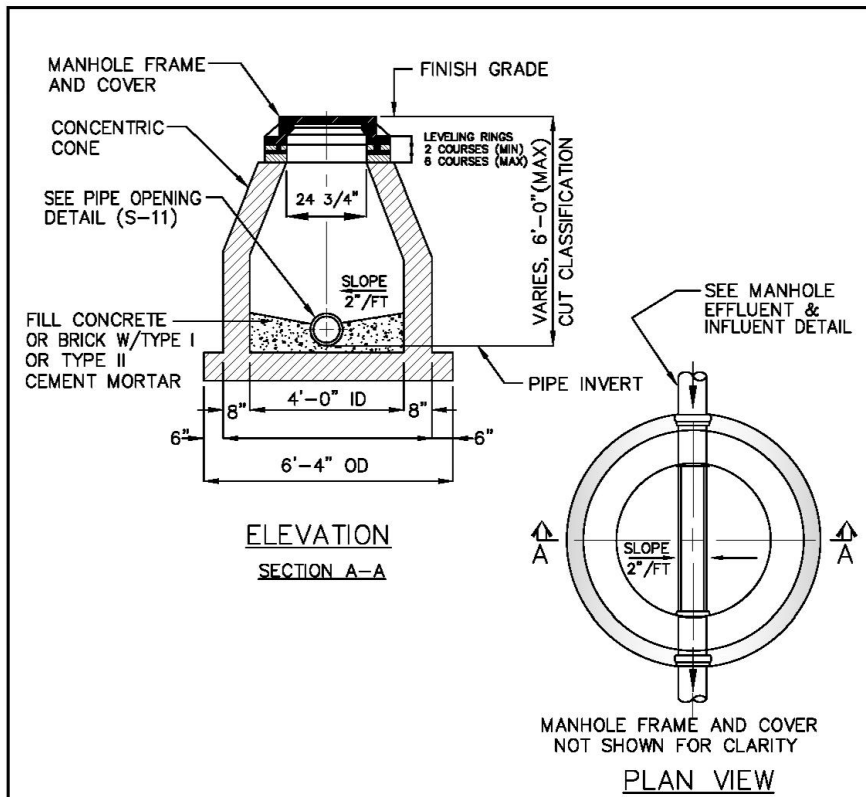
BELOW GROUND AIR RELEASE VALVE MANHOLE (AUTOMATIC - WATER/WASTEWATER)

MARCH 2014

DRAWING NO. M-7

REVISIONS				AARON STANTON, P.E. P.E. LICENSE NUMBER 72460 MBV ENGINEERING, INC. 1835 20th STREET VERO BEACH, FL 32960 CERTIFICATE OF AUTHORIZATION 3728	INDIAN RIVER COUNTY DEPARTMENT OF PUBLIC WORKS/ENGINEERING DIVISION			SHEET NO.  14
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
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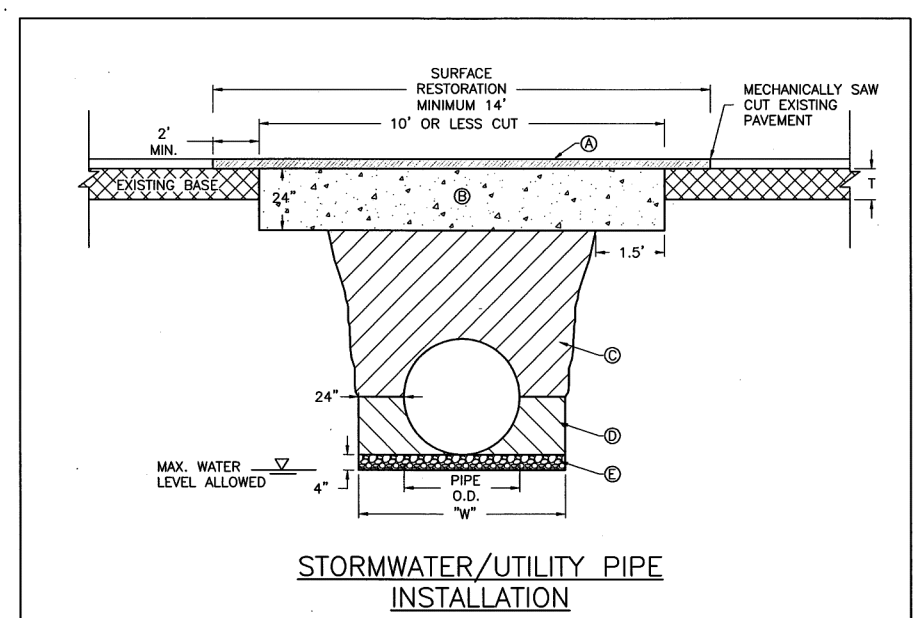
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TO BE USED WHEN CUT CLASSIFICATION IS 6'-0" OR LESS

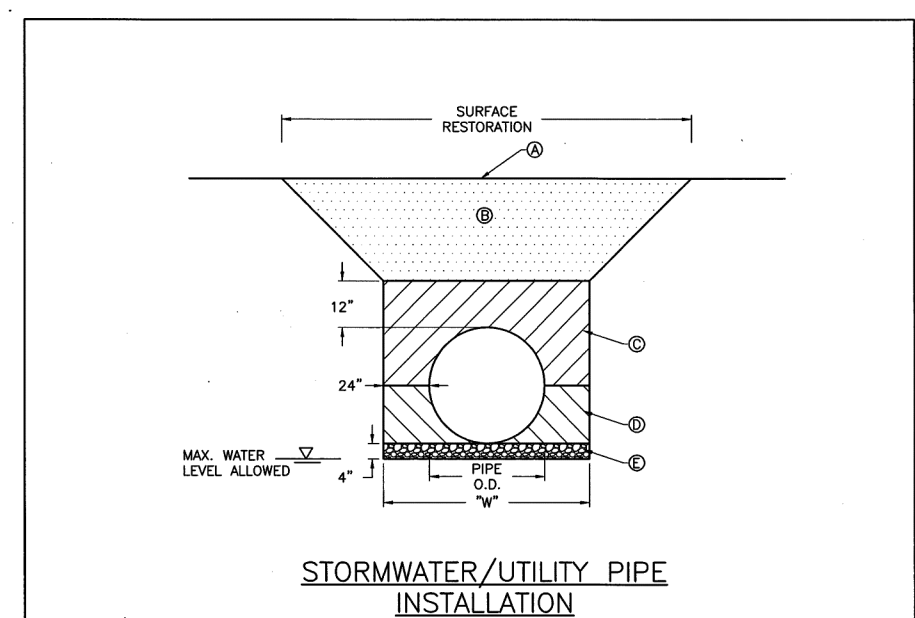
- NOTES**
- SEE MANHOLE NOTES ON DRAWING NO. S-5
  - SEE STANDARD MANHOLE CASTING DRAWING NO. S-4
  - SEE PIPE OPENING DETAIL DRAWING NO. S-11
  - SEE MANHOLE EFFLUENT & INFLUENT DETAIL DRAWING NO. S-12

INDIAN RIVER COUNTY DEPARTMENT OF UTILITIES SERVICES		<b>MANHOLE STANDARD SHALLOW</b>	DRAWING NO. <b>S-6</b>
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- NOTES:**
- UTILITY CONSTRUCTION WITHIN THE RIGHT-OF-WAY SHALL COMPLY WITH COUNTY CODE CHAPTER 312.
    - ALL INSTALLATIONS LESS THAN 12" DIAMETER AND NON GRAVITY UTILITIES SHALL BE BY DIRECTIONAL BORE.
    - PARTIAL LANE CUTS REQUIRE A MINIMUM OF SINGLE LANE RESTORATION.
  - WHERE SOIL CONDITIONS CANNOT BE MAINTAINED AS SHOWN ABOVE, PROVIDE APPROVED METHOD OF CONSTRUCTION FOR APPROVAL BY THE COUNTY ENGINEER OR DESIGNEE PRIOR TO INSTALLATION.
  - SHORING MAY BE REQUIRED IN ACCORDANCE WITH ALL INDUSTRY STANDARDS.
  - NEW SURFACING MATERIALS SHALL BE CONSISTENT OR BETTER THAN EXISTING CONDITIONS AND SHALL HAVE BUTT JOINTS (2.5 INCH MINIMUM THICKNESS).
  - ALL ROADWAY RESTORATION SHALL COMPLY WITH INDIAN RIVER COUNTY PUBLIC WORKS AND FDOT STANDARDS (LATEST EDITION).
  - MINIMUM TRENCH WIDTH "W" = PIPE O.D. PLUS 2'-0" ON EACH SIDE.
- (A) MINIMUM EXISTING PAVEMENT DEPTH OR PER COUNTY ROADWAY DESIGN CRITERIA DETAIL, WHICHEVER IS GREATER.  
 (B) FLOWABLE FILL AS DEFINED AS NON-EXCAVATABLE IN ACCORDANCE WITH FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, SECTION 121, WITH STRENGTH OF 125-300 PSI.  
 (C) A.A.S.H.T.O. TYPE A-3 MATERIAL IN MAXIMUM 6" LIFTS COMPACTED AT 98% A.A.S.H.T.O. T-180.  
 (D) A.A.S.H.T.O. TYPE A-3 MATERIAL IN MAXIMUM 4" LIFTS COMPACTED AT 98% A.A.S.H.T.O. T-180. EXCAVATABLE FLOWABLE FILL IS ALLOWED WITH PRIOR APPROVAL OF PROPOSED MATERIAL STRENGTH BY THE COUNTY ENGINEER OR DESIGNEE.  
 (E) 3/4" DIAMETER, WASHED BEDDING ROCK OR PEA ROCK WHERE UNSUITABLE BEDDING MATERIAL EXISTS OR IF DEWATERING IS REQUIRED. SUITABLE MATERIAL IS DEFINED AS STABLE GRANULAR MATERIAL FREE OF ROCK FORMATION, OTHER FOREIGN FORMATIONS AND CONSTRUCTED TO UNIFORM GRADE AND LINE.

INDIAN RIVER COUNTY 1801 27TH STREET VERO BEACH, FL 32960 (772) 226-1283		<b>DEPARTMENT OF PUBLIC WORKS</b> ENGINEERING DIVISION	<b>TRENCH (PAVED AREAS)</b> 10' OR LESS CUT
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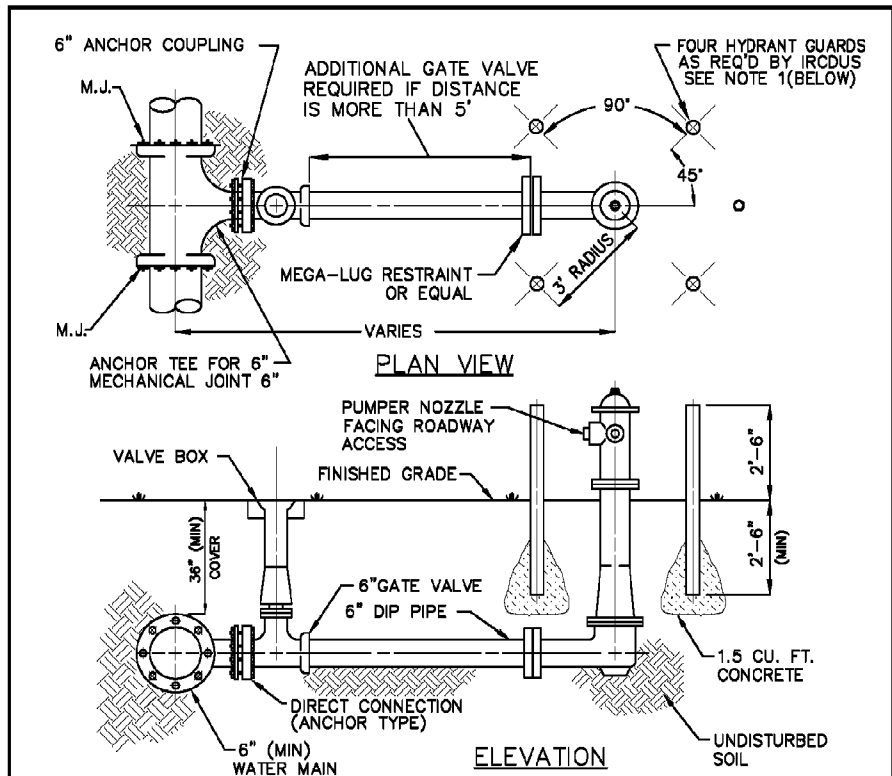
- NOTES:**
- UTILITY CONSTRUCTION WITHIN THE RIGHT-OF-WAY SHALL COMPLY WITH COUNTY CODE CHAPTER 312.
    - WHERE SOIL CONDITIONS CANNOT BE MAINTAINED AS SHOWN ABOVE, PROVIDE METHOD OF CONSTRUCTION FOR APPROVAL BY COUNTY ENGINEER OR DESIGNEE PRIOR TO INSTALLATION.
    - SHORING MAY BE REQUIRED IN ACCORDANCE WITH ALL INDUSTRY STANDARDS.
    - MINIMUM TRENCH WIDTH "W" = PIPE O.D. PLUS 2'-0" ON EACH SIDE.
- (A) MATCH EXISTING GROUND WITH SMOOTH, LEVEL TRANSITION.  
 (B) UNPAVED ROADS IN ROW SHALL CONSIST OF 8" LIMEROCK BASE OR COQUINA SHELL IN A MINIMUM OF (2) 4" LIFTS WITH A MINIMUM LBR OF 100 COMPACTED TO 98% MAXIMUM DENSITY PER A.A.S.H.T.O. T-180. WHEN INSTALLATION IS NOT LOCATED IN A TRAVEL LANE, RESTORATION SHALL BE ACCORDING TO (C) BELOW WITH SOD LAID WITHIN THREE DAYS OF FINAL GRADING.  
 (C) A.A.S.H.T.O. TYPE A-3 MATERIAL IN MAXIMUM 6" LIFTS COMPACTED AT 98% A.A.S.H.T.O. T-180.  
 (D) A.A.S.H.T.O. TYPE A-3 MATERIAL IN MAXIMUM 4" LIFTS COMPACTED AT 98% A.A.S.H.T.O. T-180. EXCAVATABLE FLOWABLE FILL IS ALLOWED WITH PRIOR APPROVAL OF PROPOSED MATERIAL STRENGTH BY COUNTY ENGINEER OR DESIGNEE.  
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INDIAN RIVER COUNTY 1801 27TH STREET VERO BEACH, FL 32960 (772) 226-1283		<b>DEPARTMENT OF PUBLIC WORKS</b> ENGINEERING DIVISION	<b>TRENCH (UNPAVED AREAS)</b>
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REVISIONS				AARON STANTON, P.E. P.E. LICENSE NUMBER 72460 MBV ENGINEERING, INC. 1835 20th STREET VERO BEACH, FL 32960 CERTIFICATE OF AUTHORIZATION 3728	INDIAN RIVER COUNTY DEPARTMENT OF PUBLIC WORKS/ENGINEERING DIVISION			SHEET NO.  15
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
---	---	---	---		11th DRIVE	INDIAN RIVER	IRC: 2001 FDOT: N/A	

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





- NOTES**
- HYDRANT GUARDS TO BE 4" DIAMETER GALVANIZED STEEL OR DUCTILE IRON PIPE FILLED w/ CONCRETE WHEN REQUIRED BY IRCOUS. GUARDS TO BE PAINTED SAME AS HYDRANT.
  - THE C OF THE PUMPER CONNECTION SHALL BE 18" MINIMUM ABOVE THE C OF THE NEAREST ROADWAY OR FINISH GRADE.
  - ALL HYDRANTS SHALL BE TRAFFIC BREAKAWAY TYPE.
  - COMPLETE ANCHORED FIRE HYDRANT ASSEMBLY MAY BE UTILIZED IN LIEU OF ABOVE.
  - FIRE HYDRANT SHOULD BE LOCATED WITHIN 12' FROM EDGE OF PAVEMENT WHERE POSSIBLE.
  - ALL MATERIALS ARE TO BE PER IRCOUS APPROVED MANUFACTURERS' PRODUCT LIST.
  - TRACE WIRE TO BE INSTALLED AS PER DETAIL M-13. (TRACE WIRE NOT SHOWN IN DRAWING ABOVE.)
  - ALL BOLTS FOR FIRE HYDRANT FITTINGS AND VALVES SHALL BE STAINLESS STEEL. ALL NUTS SHALL BE STAINLESS STEEL.
  - MAINTAIN 7'-6" RADIUS OF HYDRANT PERPENDICULAR TO ROADWAY OR CURB FACE (EXAMPLE MUST BE CLEAR OF SIGNS, TREES, SHRUBS, TRANSFORMERS, UTILITY POLES, ETC.)
  - HYDRANTS AND PROTECTION DEVICES SHALL HAVE CLEARANCES OF 7'-6" IN FRONT AND TO THE SIDES OF THE FIRE HYDRANT, WITH A 4' CLEARANCE TO THE REAR OF THE HYDRANT PURSUANT TO FIRE PREVENTION CODE 3-5.6.

INDIAN RIVER COUNTY DEPARTMENT OF UTILITIES SERVICES		FIRE HYDRANT DETAILS	DRAWING NO.
			W-2

				POWDER COAT	PRODUCT LIST																	
				T007-GN13	<table border="1"> <thead> <tr> <th>ITEM</th> <th>QTY</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>1</td> <td>CL-10-DA-VP</td> </tr> <tr> <td>2</td> <td>1</td> <td>SH-1424-A-TG</td> </tr> <tr> <td>3</td> <td>1</td> <td>PV6000-LED</td> </tr> <tr> <td>4</td> <td>1</td> <td>PV6000-FM</td> </tr> <tr> <td>5</td> <td>1</td> <td>BPN-A-5-A-R</td> </tr> <tr> <td>6</td> <td>1</td> <td>TPM-A-10-RS</td> </tr> </tbody> </table>	ITEM	QTY	DESCRIPTION	1	1	CL-10-DA-VP	2	1	SH-1424-A-TG	3	1	PV6000-LED	4	1	PV6000-FM	5	1
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STRUCTURAL ONLY	

Project Name: Vero Beach	Products Overview			<table border="1"> <thead> <tr> <th>Date</th> <th>Revision Description</th> <th>Sheet</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td>1</td> </tr> </tbody> </table>	Date	Revision Description	Sheet			1
Date	Revision Description	Sheet								
		1								
Address:	City / State: Vero Beach, FL	Project #:								
Sales Person:	File Name: VB_9.5x4.5	Checked by: William								
Drawn by: Carlos J. Galdeamez	Scale: Noted	Approved by: Scott								
		Date: 5/1/2019								

**37TH STREET BUS STOP SHELTER TYPICAL DETAIL**  
 Scale: NONE  
 STATION: 51+57.35 SOUTH (RT.) 43.10'  
 STATION: 55+30.28 NORTH (LT.) 36.26'

REVISIONS				AARON STANTON, P.E. P.E. LICENSE NUMBER 72460 MBV ENGINEERING, INC. 1835 20th STREET VERO BEACH, FL 32960 CERTIFICATE OF AUTHORIZATION 3728	INDIAN RIVER COUNTY DEPARTMENT OF PUBLIC WORKS/ENGINEERING DIVISION			SHEET NO.  16
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
					11th DRIVE	INDIAN RIVER	IRC: 2001 FDOT: N/A	

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

**PHASING CONSTRUCTION NOTES:**

1. CONTRACTOR SHALL PREPARE AND PROVIDE MOT AND DETOURS FOR EACH PHASE OF WORK. PLANS SHALL BE PREPARED BY AN ENGINEER REGISTERED IN THE STATE OF FLORIDA. MOT AND DETOURS HAVE TO BE APPROVED IN ADVANCE OF STARTING WORK ON EACH PHASE BY INDIAN RIVER COUNTY.
2. WORK WILL START ON 11TH AVENUE AT THE SOUTH END (SOUTH OF 36TH STREET) AND PROCEED NORTH.
3. THE INTENT IS TO CONSTRUCT FULL WIDTH ROAD IN INCREMENTS, FINISHING ONE PHASE UP TO STRUCTURAL COURSE PAVEMENT WITH TEMPORARY STRIPING AND DELINEATION, BEFORE THE NEXT PHASE IS STARTED.
4. ONCE ALL PHASES ARE COMPLETED TO STRUCTURAL COURSE PAVEMENT AND ACCEPTED BY THE ENGINEER, THE CONTRACTOR SHALL COMPLETE THE FINAL 1" FRICTION COURSE.
5. CONTRACTOR SHALL PROVIDE ASPHALT TRANSITION WEDGES AT LOCATIONS WHERE PAVEMENT SURFACE ELEVATIONS DIFFER BY GREATER THAN ONE - INCH.

**WORK RESTRICTIONS:**

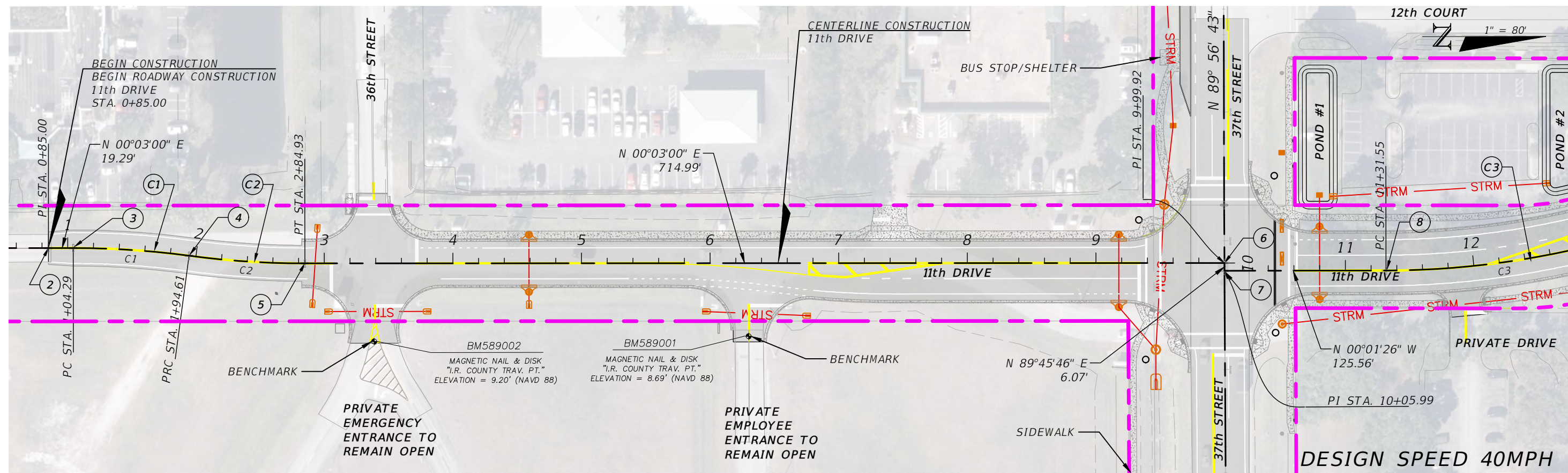
1. EACH PHASE OF WORK SHALL BE AS SHOWN ON THE PHASING PLAN. THE CONTRACTOR CAN REQUEST CHANGES TO THE PLAN IN ADVANCE OF STARTING THE WORK. CONTRACTOR SHALL PREPARE PHASING PLAN DRAWINGS FOR REVIEW AND ANY CHANGES SHALL BE APPROVED BY INDIAN RIVER COUNTY BEFORE STARTING WORK.
2. EMERGENCY VEHICLES SHALL HAVE ACCESS THROUGH THE WORK SITE AT ALL TIMES.
3. MOTORISTS THAT LIVE WITHIN A PHASE OF ROAD WORK SHALL HAVE ACCESS TO THEIR PROPERTY ON A 24 HOUR PER DAY BASIS. UNLESS OTHERWISE APPROVED IN WRITING.
4. BEFORE EACH INCREMENT IS PLACED INTO OPERATION, TEMPORARY PAINTED STRIPING AND SIGNAGE SHALL BE IN PLACE. STRIPING SHALL BE MAINTAINED BY THE CONTRACTOR DURING THE COURSE OF THE WORK, UNTIL FINISH STRIPING IS PLACED. STRIPING TAPE MAY BE USED FOR TEMPORARY STRIPING THAT IS INTENDED FOR USE FOR UP TO THREE WEEKS OR LESS.

**Point Table**

	(X) EASTING	(Y) NORTHING	LATITUDE	LONGITUDE
1	851338.23	1208666.212	027° 39' 27.013"	-080° 23' 49.470"
2	851338.30	1208751.212	027° 39' 27.855"	-080° 23' 49.464"
3	851338.32	1208770.499	027° 39' 28.046"	-080° 23' 49.463"
4	851344.40	1208860.546	027° 39' 28.937"	-080° 23' 49.391"
5	851350.47	1208950.592	027° 39' 29.829"	-080° 23' 49.318"
6	851351.10	1209665.586	027° 39' 36.908"	-080° 23' 49.272"
7	851357.17	1209665.612	027° 39' 36.908"	-080° 23' 49.205"
8	851357.12	1209791.170	027° 39' 38.152"	-080° 23' 49.199"
9	851332.22	1209972.132	027° 39' 39.945"	-080° 23' 49.466"
10	851307.32	1210154.756	027° 39' 41.754"	-080° 23' 49.733"
11	851307.88	1210380.657	027° 39' 43.991"	-080° 23' 49.714"
12	851033.80	1209665.140	027° 39' 36.919"	-080° 23' 52.801"
13	851306.10	1209665.400	027° 39' 36.909"	-080° 23' 49.773"
14	851833.79	1209667.586	027° 39' 36.905"	-080° 23' 43.904"

**Curve Table**

Curve #	Length	Radius	Delta
C1	90.32	670.04	007°43'24"
C2	90.32	670.00	007°43'26"
C3	183.24	670.00	015°40'11"
C4	184.90	670.00	015°48'43"



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

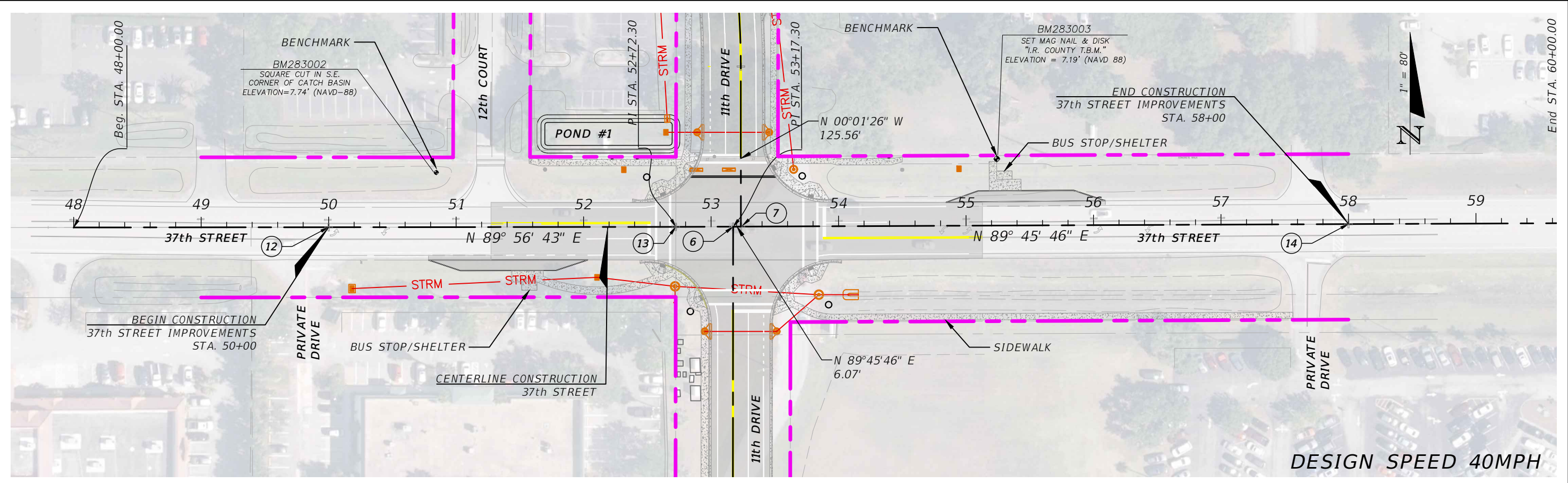
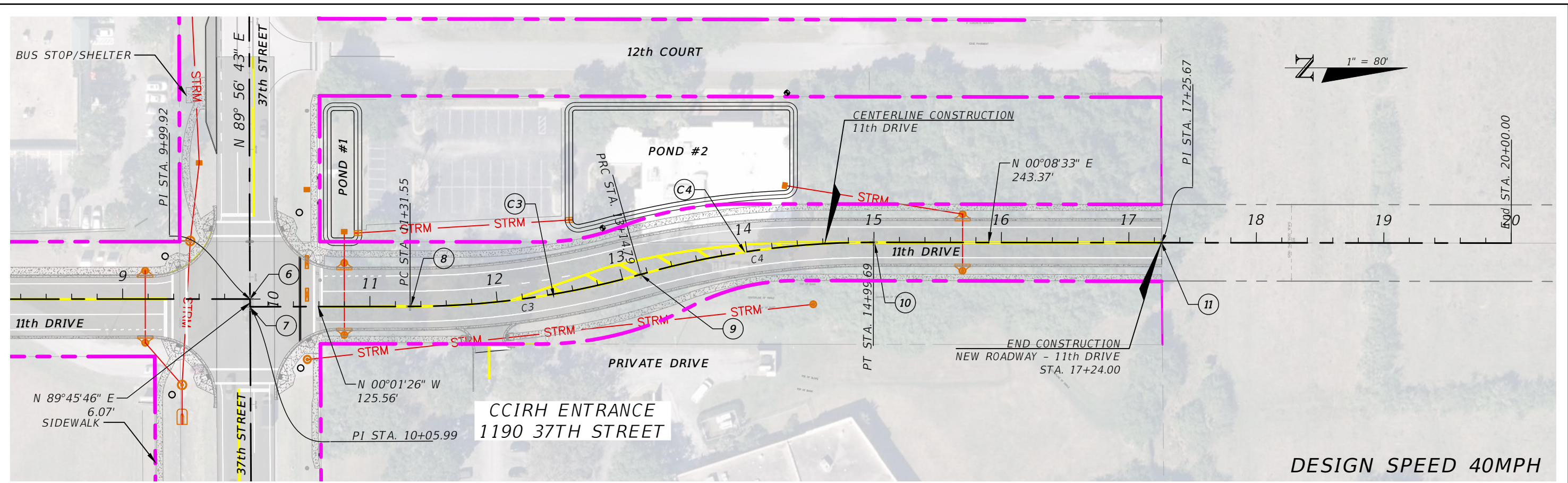
AARON STANTON, P.E.  
P.E. LICENSE NUMBER 72460  
MBV ENGINEERING, INC.  
1835 20th STREET  
VERO BEACH, FL 32960  
CERTIFICATE OF AUTHORIZATION 3728

INDIAN RIVER COUNTY		
DEPARTMENT OF PUBLIC WORKS/ENGINEERING DIVISION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
11th DRIVE	INDIAN RIVER	IRC: 2001 FDOT: N/A

**PROJECT LAYOUT PLAN**  
**11TH DRIVE - SOUTH HALF**

SHEET NO.  
**17**

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CCIRH ENTRANCE  
1190 37TH STREET

DESIGN SPEED 40MPH

DESIGN SPEED 40MPH

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

AARON STANTON, P.E.  
P.E. LICENSE NUMBER 72460  
MBV ENGINEERING, INC.  
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INDIAN RIVER COUNTY		
DEPARTMENT OF PUBLIC WORKS/ENGINEERING DIVISION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
11th DRIVE	INDIAN RIVER	IRC: 2001 FDOT: N/A

**PROJECT LAYOUT PLAN**  
**11th DRIVE - NORTH HALF**

SHEET NO.
18

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

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 RECONSTRUCTION OF 11TH DRIVE AND THE EXTENSION OF 11TH DRIVE TO THE NORTH, NORTH OF 37TH STREET IN VERO BEACH. THIS INVOLVES CONSTRUCTING ROADWAY SURFACE, CURB AND GUTTER, SIDEWALK, UNDERGROUND STORM DRAIN SYSTEMS, AND STORMWATER MANAGEMENT FACILITIES. THE PROJECT EXTENDS FROM 240 FEET SOUTH OF THE CENTERLINE OF 36TH STREET TO THE COUNTY OWNED PROPERTY, A DISTANCE OF APPROXIMATELY 1,639 LF OR 0.31 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.

1. CLEARING AND GRUBBING, EARTHWORK, AND STORM DRAIN CONSTRUCTION FOR THE OUTFALL FROM THE PONDS.
2. CLEARING AND GRUBBING, EARTHWORK FOR POND CONSTRUCTION.
3. STORM DRAIN AND ROADWAY CONSTRUCTION. CONSTRUCT THE STORM DRAIN PIPE IN THE UPSTREAM DIRECTION.
4. EARTHWORK ASSOCIATED WITH THE CONSTRUCTION OF ROADWAY, CURB, SUBGRADE, BASE, PAVEMENT, AND SIDEWALK.
5. CONSTRUCTION OF THE POND SYSTEM.

1.C AREA ESTIMATES:

TOTAL SITE AREA:

2.04 ACRES (NORTH OF 37TH STREET)

2.10 ACRES (SOUTH OF 37TH STREET)

TOTAL AREA TO BE DISTURBED:

2.04 ACRES (NORTH OF 37TH STREET)

2.10 ACRES (SOUTH OF 37TH STREET)

1.D RUNOFF DATA:

RUNOFF COEFFICIENTS:

BEFORE: 0.62

DURING: VARIES FROM 0.62 TO 0.76

AFTER: 0.76

SOILS DATA:

THE RESULTS OF THE SOIL BORINGS ALONG THE ROADWAY AND IN THE PROPOSED DRY PONDS CAN BE FOUND WITHIN THE GEOTECHNICAL REPORT FROM GFA INTERNATIONAL (GFA PROJECT NO. 3330.2000154.000) DATED MARCH 4, 2021 AS FOUND WITHIN THE BID DOCUMENTS,

OUTFALL INFORMATION:

THERE ARE 3 OUTFALLS.

#1 DESCRIPTION: EASTERN SWALE ALONG THE SOUTHERN PORTION OF 11TH DRIVE (SOUTH OF 37TH STREET) OUTFALLS TO THE SOUTH AND TO THE EAST INTO THE CURRENT HOSPITAL SYSTEM.

LOCATION: LATITUDE 27°-39'32.217", LONGITUDE 80°23'49.286"

EST. DRAINAGE AREA SIZE: 2.10 ACRES

RECEIVING WATER NAME: INDIAN RIVER MEMORIAL HOSPITAL STORMWATER MANAGEMENT SYSTEM.

#2 DESCRIPTION: POND 1. THIS DISCHARGES TO THE EXISTING STORM DRAIN SYSTEMS THAT RUNS ALONG THE NORTH SIDE OF 37TH STREET.

LOCATION: LATITUDE 27°39'39.546", LONGITUDE 80°23'49.081"

EST. DRAINAGE AREA SIZE: 2.04 ACRES

RECEIVING WATER NAME: INDIAN RIVER COUNTY RIGHT-OF-WAY.

#3 DESCRIPTION: PORTION OF THE SOUTH HALF OF 37TH STREET OUTFALLS WITHIN THE EXISTING STORM DRAIN SYSTEM THAT RUNS ALONG THE SOUTH SIDE OF 37TH STREET.

LOCATION: LATITUDE 27°39'32.217", LONGITUDE 80°23'49.286"

EST. DRAINAGE AREA SIZE: 1.775 ACRES

RECEIVING WATER NAME: INDIAN RIVER MEMORIAL HOSPITAL STORMWATER MANAGEMENT SYSTEM.

1.E 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. THE DRAINAGE MAPS SHOW THE OVERLAND FLOW DIRECTION AT THE RIGHT OF WAY LINE.

\*APPROXIMATE SLOPES: THE SLOPES OF THE SITE CAN BE SEEN IN THE CROSS SECTION SHEETS AND THE PLAN-PROFILE SHEETS. THERE ARE POND CROSS SECTIONS LOCATED WITH THE POND DETAIL 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. TABLES PROVIDING SUMMARIES OF TEMPORARY EROSION AND SEDIMENT CONTROL ITEMS ARE PROVIDED IN THE SUMMARY OF QUANTITY SHEETS.

\*LOCATIONS OF PERMANENT CONTROLS: THE STORMWATER PONDS ARE THE PRIMARY PERMANENT STORMWATER MANAGEMENT CONTROLS. THESE ARE SHOWN ON THE POND DETAIL SHEETS.

\*AREAS TO BE STABILIZED: TEMPORARY STABILIZATION PRACTICES ARE SHOWN IN THE SAME LOCATION AS THE TEMPORARY CONTROLS MENTIONED ABOVE. PERMANENT STABILIZATION IS SHOWN ON THE TYPICAL SECTION SHEETS, THE PLAN-PROFILE SHEETS AND THE POND DETAIL SHEETS.

\*SURFACE WATERS: THERE ARE NO SURFACE WATERS WITHIN THE PROJECT BOUNDARIES.

REVISIONS				AARON STANTON, P.E. P.E. LICENSE NUMBER 72460 MBV ENGINEERING, INC. 1835 20th STREET VERO BEACH, FL 32960 CERTIFICATE OF AUTHORIZATION 3728	INDIAN RIVER COUNTY			SHEET NO.  19
DATE	DESCRIPTION	DATE	DESCRIPTION		DEPARTMENT OF PUBLIC WORKS/ENGINEERING DIVISION			
					ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
					11th DRIVE	INDIAN RIVER	IRC: 2001 FDOT: N/A	

*SWPPP GENERAL NOTES*

2.0 CONTROLS:

2.A EROSION AND SEDIMENT CONTROLS:

IN THE SEDIMENT AND EROSION CONTROL PLAN, THE CONTRACTOR SHALL DESCRIBE THE PROPOSED STABILIZATION AND STRUCTURAL PRACTICES BASED ON THE CONTRACTOR'S PROPOSED TEMPORARY TRAFFIC CONTROL (TTC) PLAN. WHERE FOLLOWING THESE CONSTRUCTION PLANS, THE CONTRACTOR MAY CHOSE TO ACCEPT THE FOLLOWING GUIDELINES OR MODIFY THEM IN THE SEDIMENT AND EROSION CONTROL PLAN, SUBJECT TO APPROVAL BY THE ENGINEER. AS WORK PROGRESSES, THE CONTRACTOR SHALL MODIFY THE PLAN TO ADAPT TO SEASONAL VARIATION, CHANGES IN CONSTRUCTION ACTIVITIES, AND THE NEED FOR BETTER PRACTICES.

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.

RECOMMENDED GUIDELINES:

IMMEDIATELY AFTER CONSTRUCTING THE TEMPORARY PAVEMENT, STABILIZE THE ENTIRE AREA BETWEEN THE TEMPORARY PAVEMENT AND THE RIGHT OF WAY LINE USING TEMPORARY SOD.

PONDS CONSTRUCTION AND/OR MODIFICATIONS:

CLEAR AND GRUB THE POND SITES AS NOTED ON PLANS. EXCAVATE THE POND TO APPROXIMATE PROPOSED DIMENSIONS. TURF ALL DISTURBED BANK SLOPES OF THE PONDS. DRAINAGE OUTFALLS:

POND OUTFALLS

CONSTRUCT THE OUTFALL PIPE FROM POND 2 TO POND 1 AS DEPICTED ON PLANS. THE CONTRACTOR SHALL HAVE INLET PROTECTION AVAILABLE AT ALL TIMES DURING THE PIPE CONSTRUCTION TO SUBSTANTIALLY BLOCK RUNOFF IN THE TRENCH FROM ENTERING THE PIPE. CONSTRUCT PIPE TO THE POND AND CONSTRUCT THE OUTLET STRUCTURES FOR THE POND AS NOTED ON PLANS.

2.A1 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.
- \* SEDIMENT CONTAINMENT SYSTEM: THE PERMANENT STORMWATER PONDS WILL BE TEMPORARILY MODIFIED ACCORDING TO THE DETAILS IN THE TTC PLAN.

PERMANENT:

- \* STORMWATER PONDS.
- \* SOD.

2.B STORMWATER MANAGEMENT:

SEVERAL STORM DRAIN SYSTEMS WILL BE CONSTRUCTED TO CONVEY RUNOFF TO TWO (2) STORMWATER RETENTION / DETENTION PONDS. AND TO THE EXISTING STORM WATER SYSTEMS.

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 TARPULINS.
- \* 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.

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 ONE AND TWO: 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 THE ENGINEER OF RECORD AND/OR THE FDEP AND THE LOCAL STORM WATER MANAGEMENT DISTRICT.

REVISIONS				AARON STANTON, P.E. P.E. LICENSE NUMBER 72460 MBV ENGINEERING, INC. 1835 20th STREET VERO BEACH, FL 32960 CERTIFICATE OF AUTHORIZATION 3728	INDIAN RIVER COUNTY			SHEET NO.  20
DATE	DESCRIPTION	DATE	DESCRIPTION		DEPARTMENT OF PUBLIC WORKS/ENGINEERING DIVISION			
---	---	---	---		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
					11th DRIVE	INDIAN RIVER	IRC: 2001 FDOT: N/A	<i>SWPPP GENERAL NOTES</i>


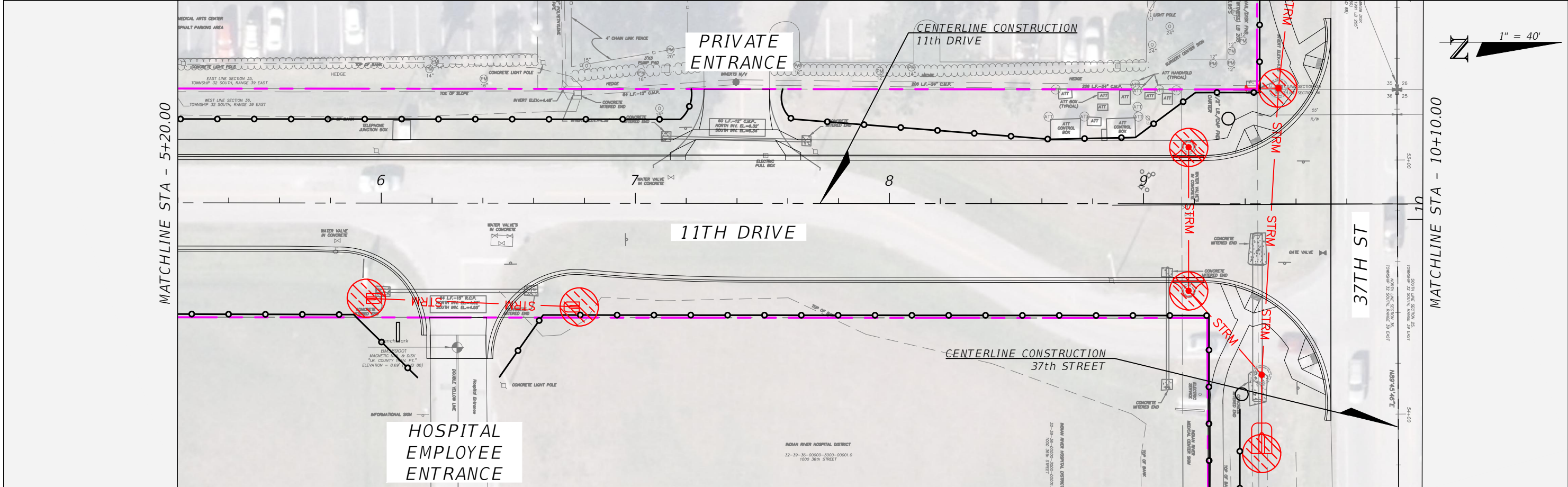
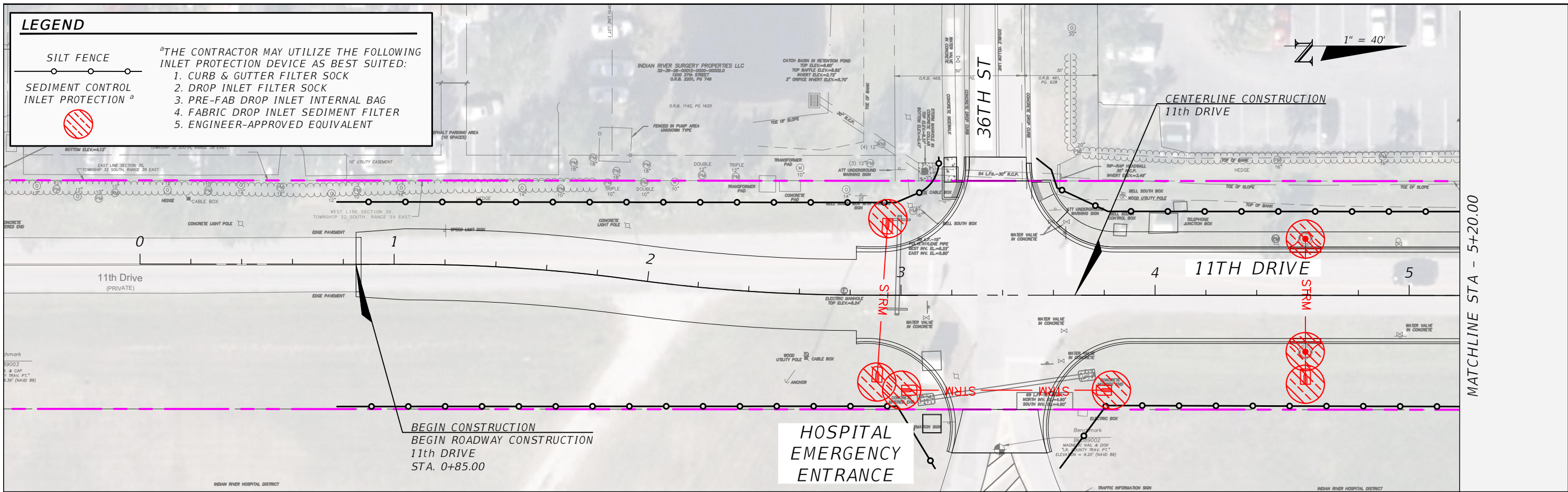
**LEGEND**

SILT FENCE

SEDIMENT CONTROL INLET PROTECTION <sup>a</sup>

<sup>a</sup>THE CONTRACTOR MAY UTILIZE THE FOLLOWING INLET PROTECTION DEVICE AS BEST SUITED:

1. CURB & GUTTER FILTER SOCK
2. DROP INLET FILTER SOCK
3. PRE-FAB DROP INLET INTERNAL BAG
4. FABRIC DROP INLET SEDIMENT FILTER
5. ENGINEER-APPROVED EQUIVALENT

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

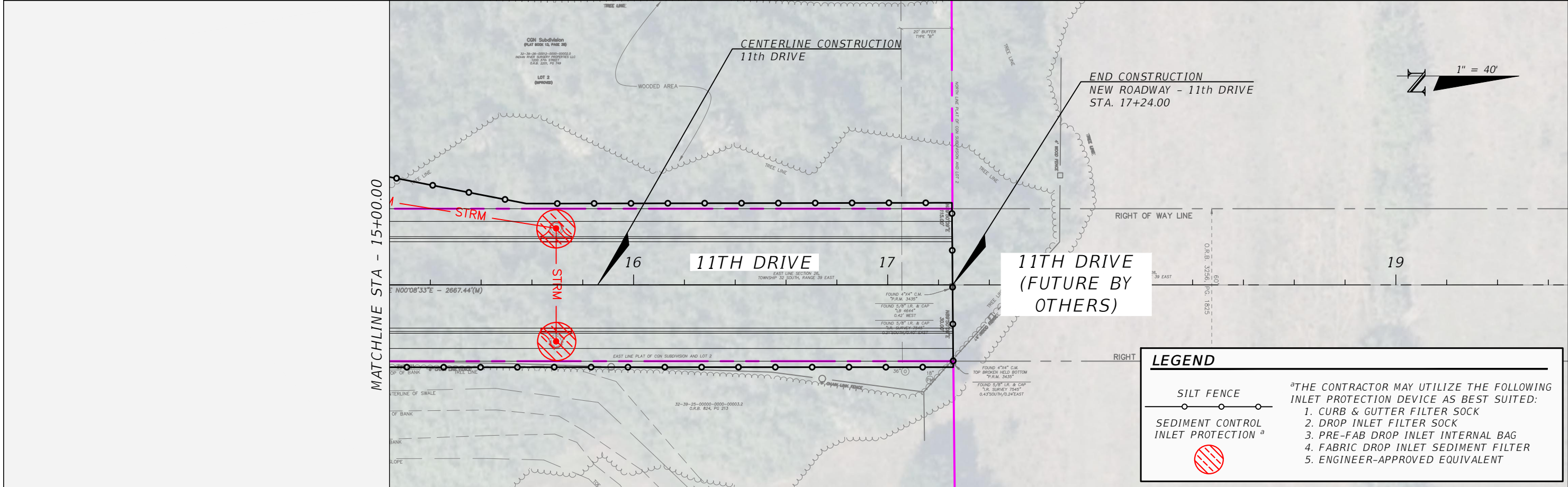
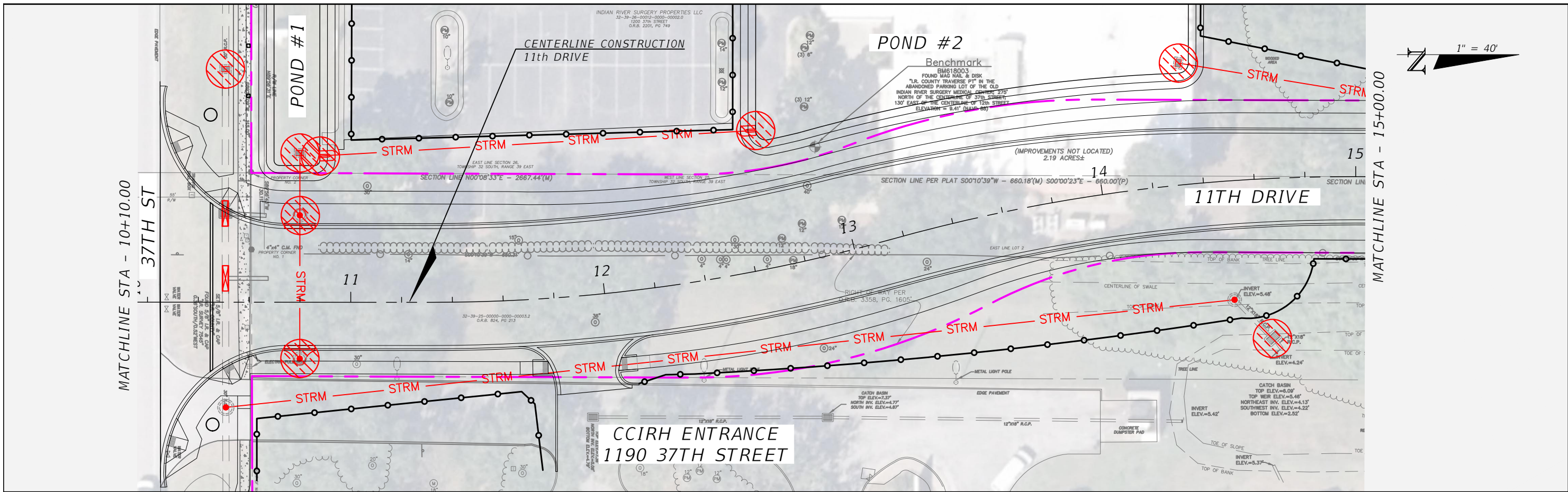
AARON STANTON, P.E.  
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MBV ENGINEERING, INC.  
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INDIAN RIVER COUNTY DEPARTMENT OF PUBLIC WORKS/ENGINEERING DIVISION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
11th DRIVE	INDIAN RIVER	IRC: 2001 FDOT: N/A

**SWPP PLAN - 11TH DRIVE**

SHEET NO.  
21

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LEGEND	
	SILT FENCE
	SEDIMENT CONTROL
	INLET PROTECTION <sup>a</sup>
<sup>a</sup> THE CONTRACTOR MAY UTILIZE THE FOLLOWING INLET PROTECTION DEVICE AS BEST SUITED: 1. CURB & GUTTER FILTER SOCK 2. DROP INLET FILTER SOCK 3. PRE-FAB DROP INLET INTERNAL BAG 4. FABRIC DROP INLET SEDIMENT FILTER 5. ENGINEER-APPROVED EQUIVALENT	

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

AARON STANTON, P.E.  
 P.E. LICENSE NUMBER 72460  
 MBV ENGINEERING, INC.  
 1835 20th STREET  
 VERO BEACH, FL 32960  
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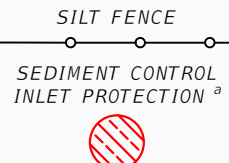
INDIAN RIVER COUNTY		
DEPARTMENT OF PUBLIC WORKS/ENGINEERING DIVISION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
11th DRIVE	INDIAN RIVER	IRC: 2001 FDOT: N/A

**SWPP PLAN - 11TH DRIVE**

SHEET NO.  
22

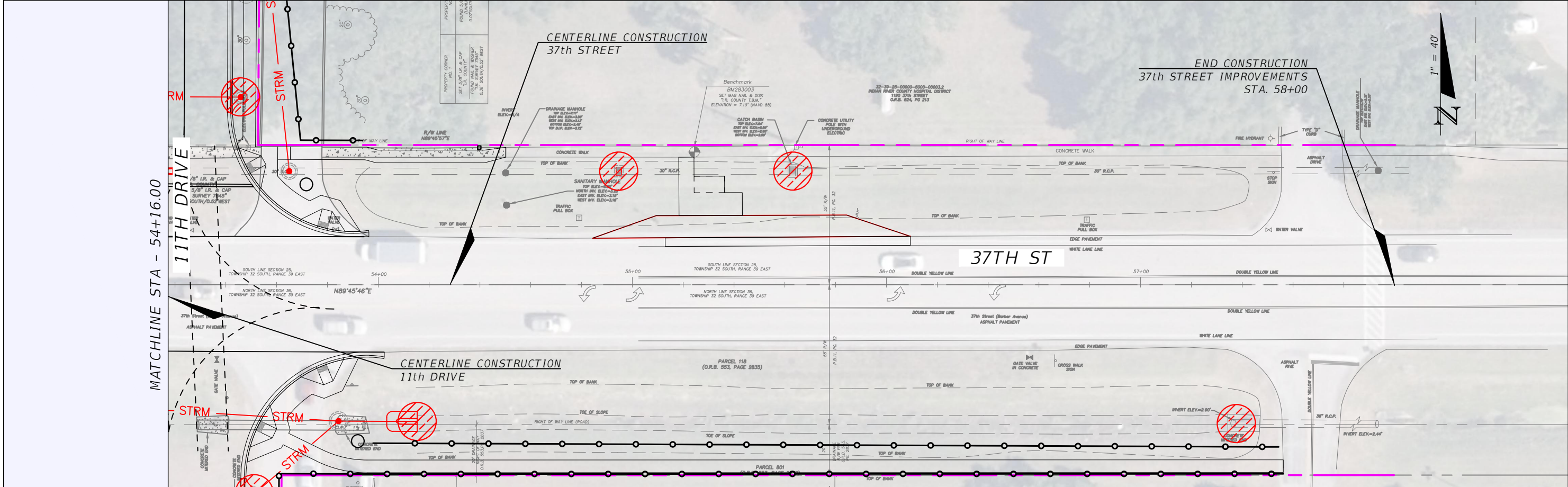
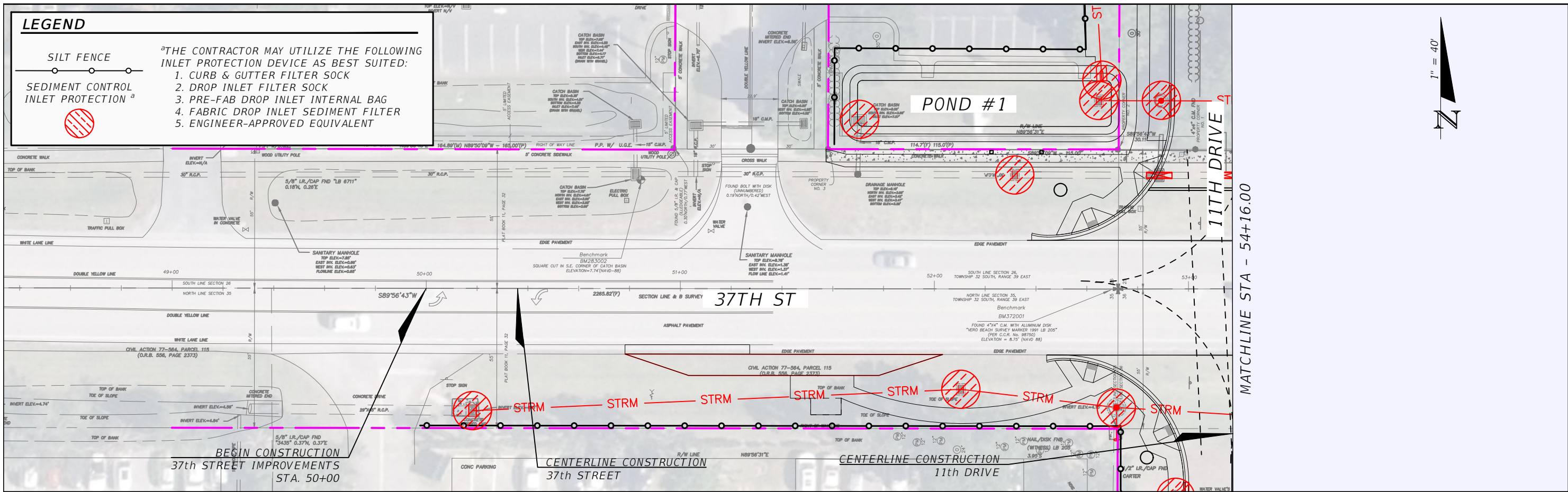
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**LEGEND**



THE CONTRACTOR MAY UTILIZE THE FOLLOWING INLET PROTECTION DEVICE AS BEST SUITED:

1. CURB & GUTTER FILTER SOCK
2. DROP INLET FILTER SOCK
3. PRE-FAB DROP INLET INTERNAL BAG
4. FABRIC DROP INLET SEDIMENT FILTER
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REVISIONS	
DATE	DESCRIPTION

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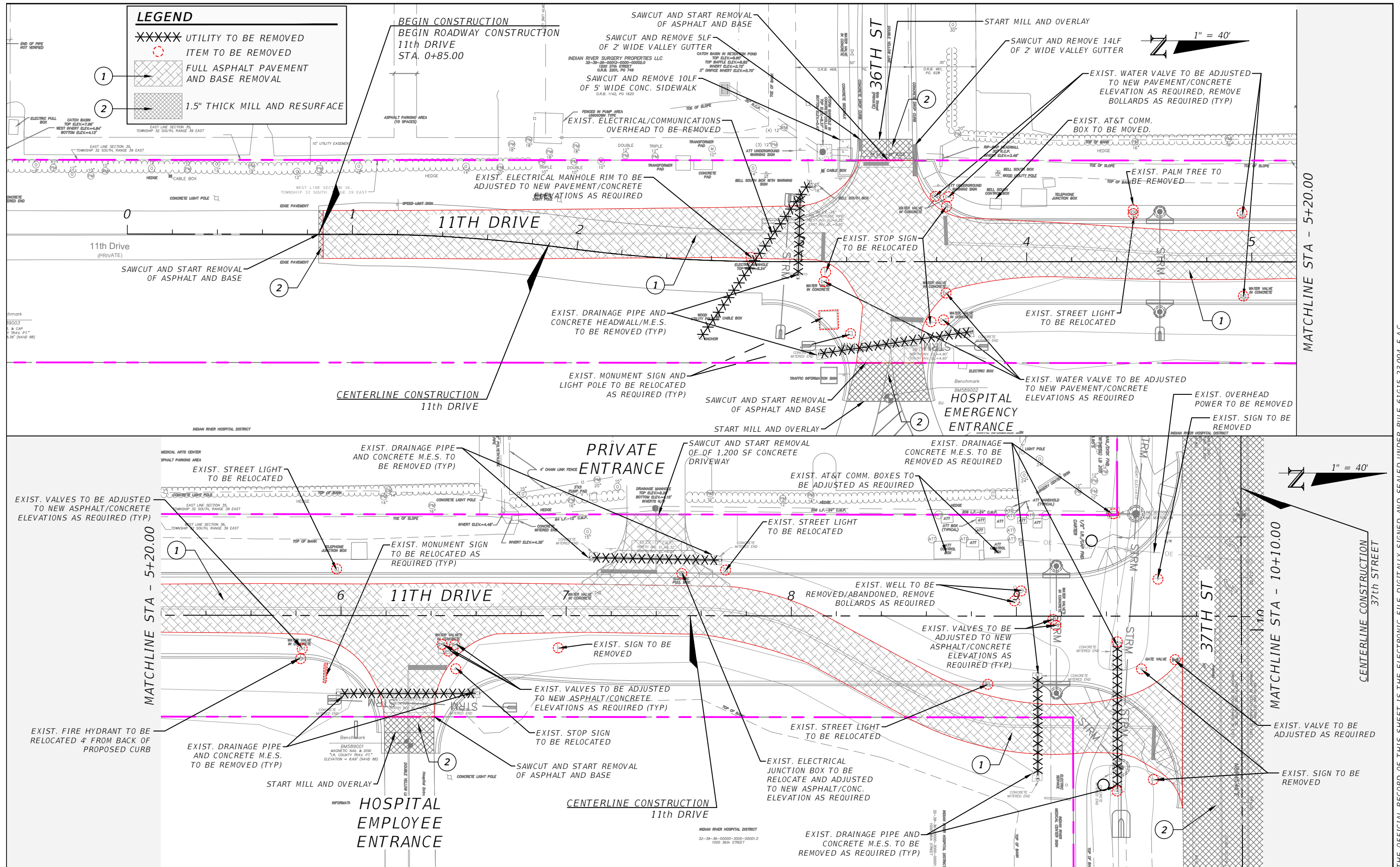
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ROAD NO.	COUNTY	FINANCIAL PROJECT ID
11th DRIVE	INDIAN RIVER	IRC: 2001 FDOT: N/A

**SWPP PLAN - 37TH STREET**

SHEET NO.	23
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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

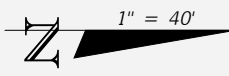
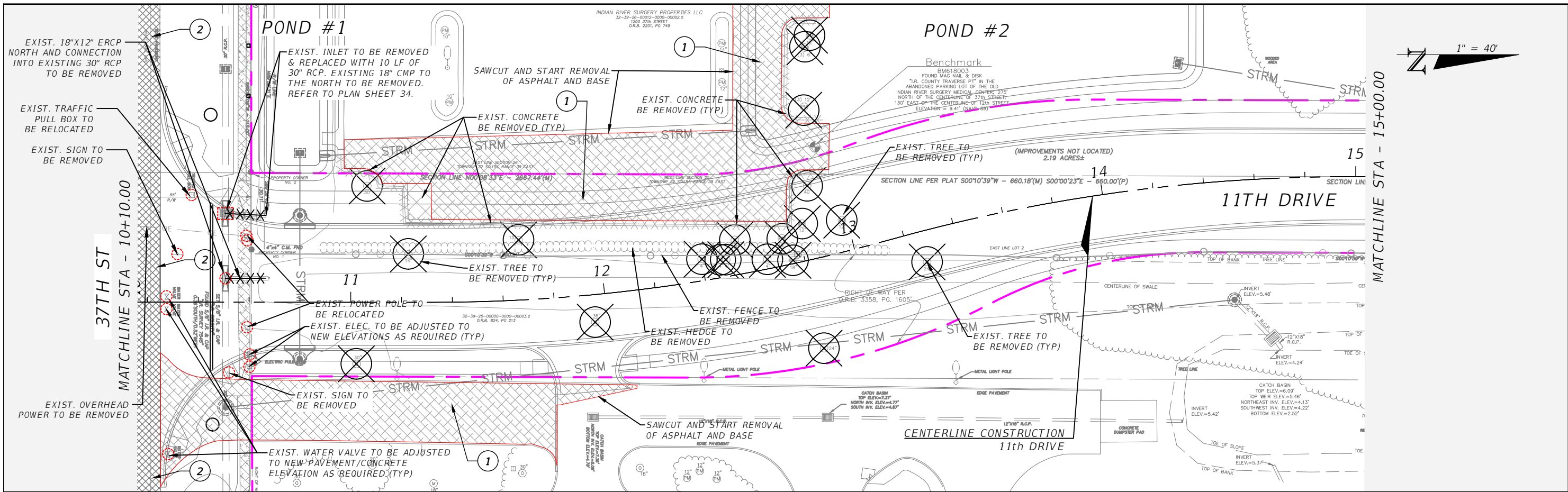
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DEPARTMENT OF PUBLIC WORKS/ENGINEERING DIVISION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
11th DRIVE	INDIAN RIVER	IRC: 2001 FDOT: N/A

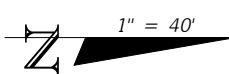
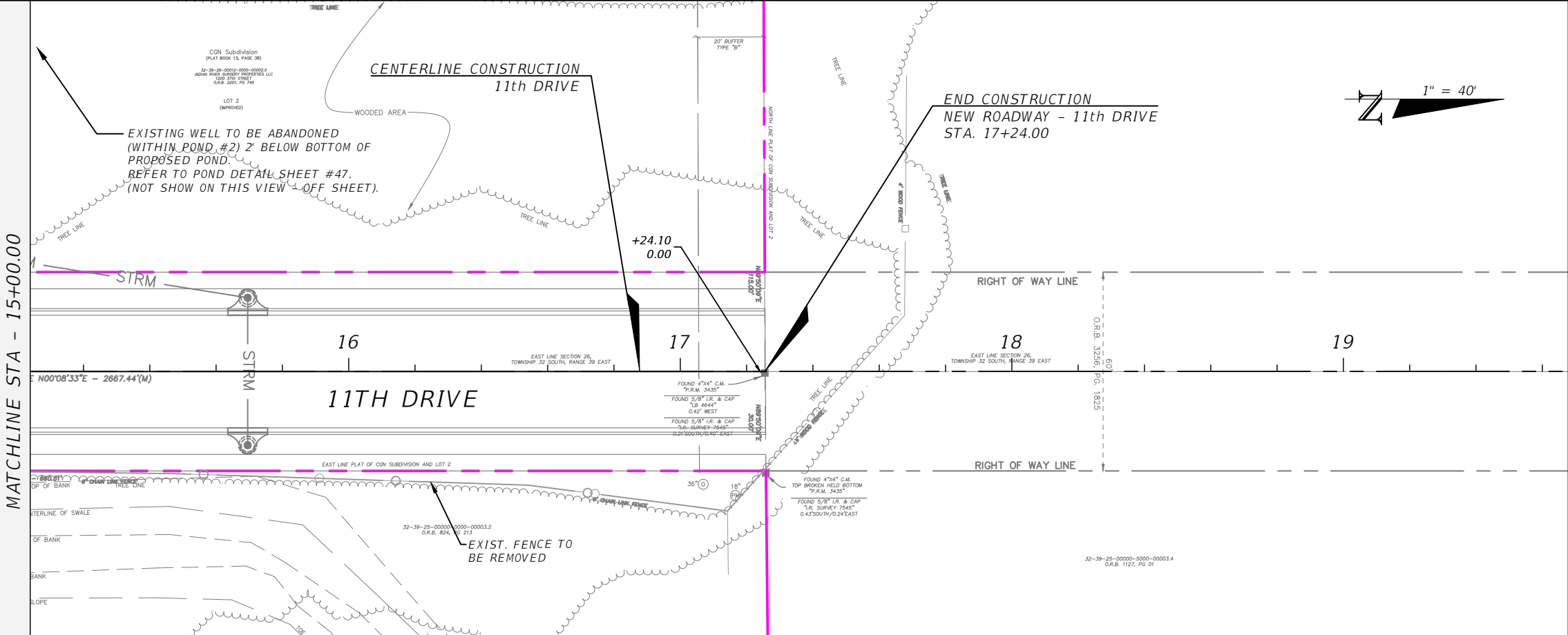
**DEMOLITION PLAN - 11TH DRIVE**

SHEET NO.
24

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LEGEND	
XXXXXX	UTILITY TO BE REMOVED
○	ITEM TO BE REMOVED
①	FULL ASPHALT PAVEMENT AND BASE REMOVAL
②	1.5" THICK MILL AND RESURFACE



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

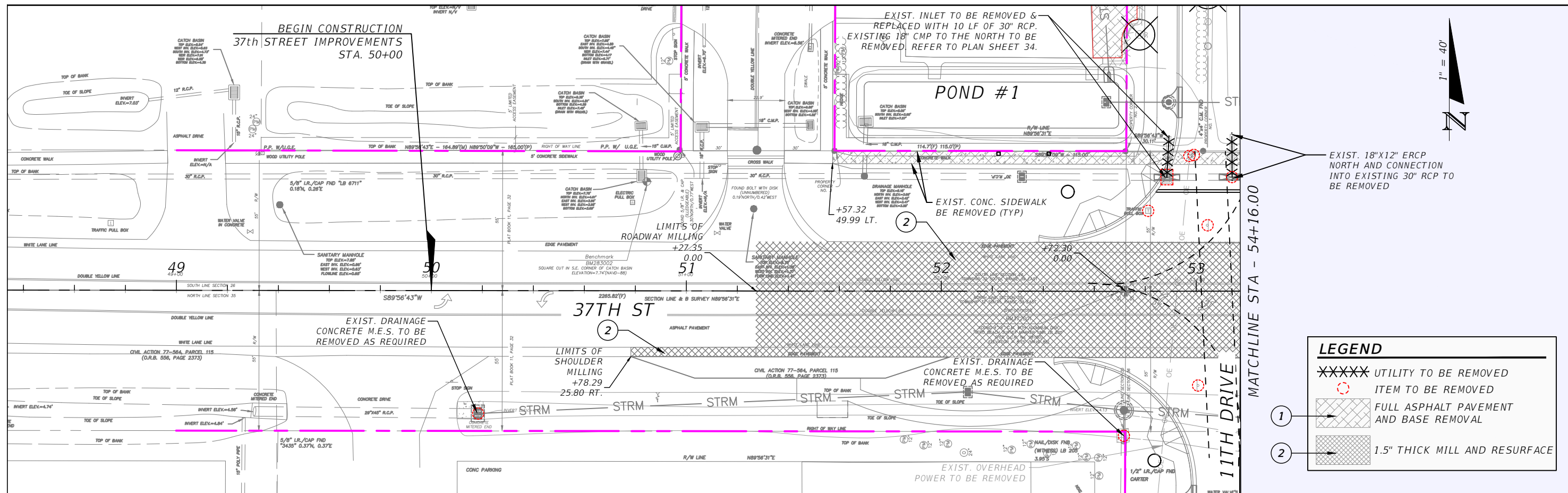
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ROAD NO.	COUNTY	FINANCIAL PROJECT ID
11th DRIVE	INDIAN RIVER	IRC: 2001 FDOT: N/A

**DEMOLITION PLAN - 11TH DRIVE**

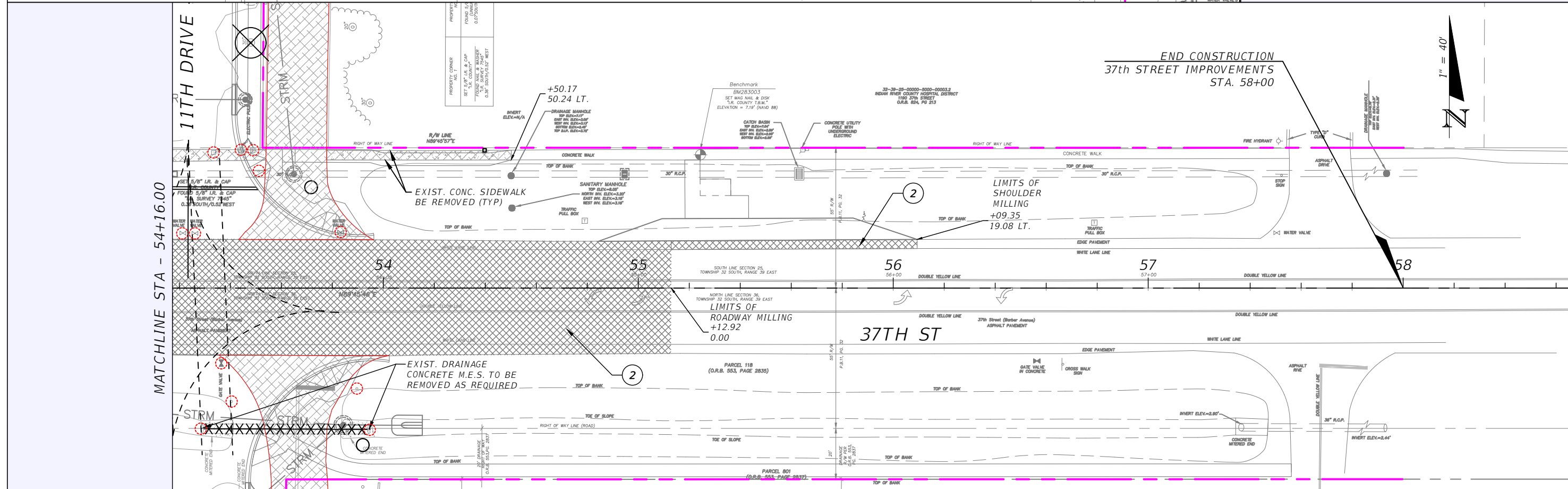
SHEET NO.
25

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**LEGEND**

- XXXXXX UTILITY TO BE REMOVED
- ITEM TO BE REMOVED
- ① FULL ASPHALT PAVEMENT AND BASE REMOVAL
- ② 1.5" THICK MILL AND RESURFACE



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

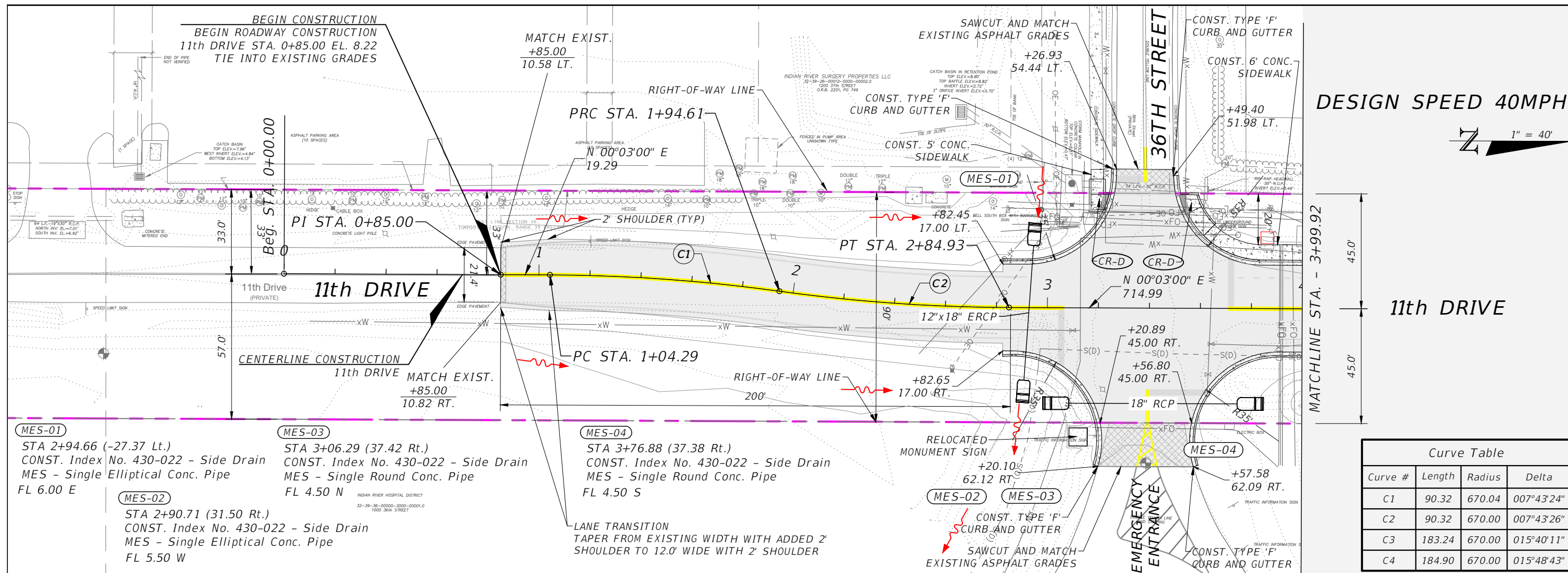
AARON STANTON, P.E.  
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ROAD NO.	COUNTY	FINANCIAL PROJECT ID
11th DRIVE	INDIAN RIVER	IRC: 2001 FDOT: N/A

**DEMOLITION PLAN - 37TH STREET**

SHEET NO.  
26

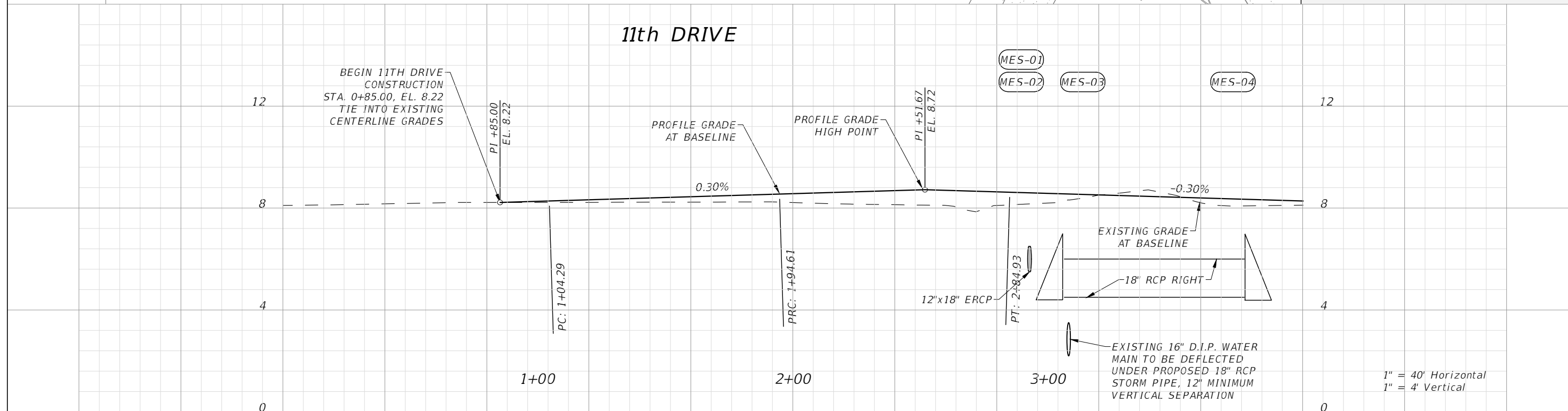
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**DESIGN SPEED 40MPH**

N  
1" = 40'

Curve Table			
Curve #	Length	Radius	Delta
C1	90.32	670.04	007°43'24"
C2	90.32	670.00	007°43'26"
C3	183.24	670.00	015°40'11"
C4	184.90	670.00	015°48'43"



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

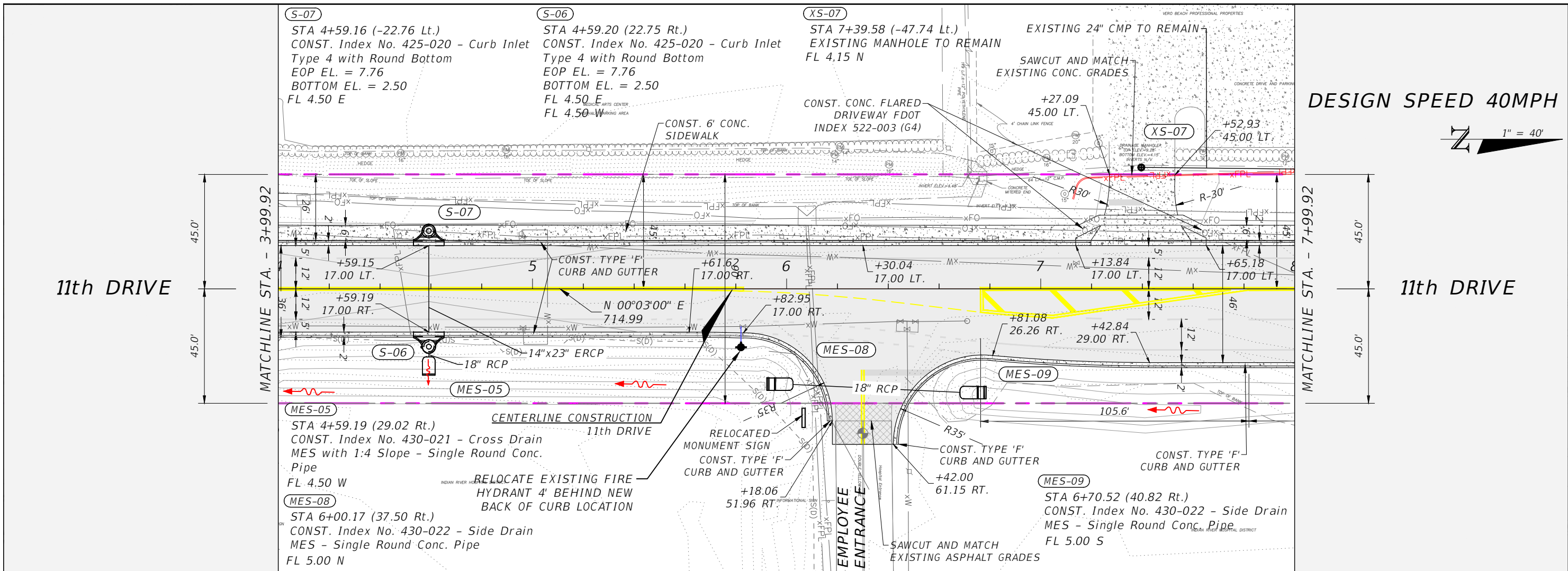
AARON STANTON, P.E.  
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INDIAN RIVER COUNTY DEPARTMENT OF PUBLIC WORKS/ENGINEERING DIVISION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
11th DRIVE	INDIAN RIVER	IRC: 2001 FDOT: N/A

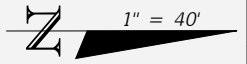
**PLAN AND PROFILE - 11TH DRIVE**

SHEET NO.  
27

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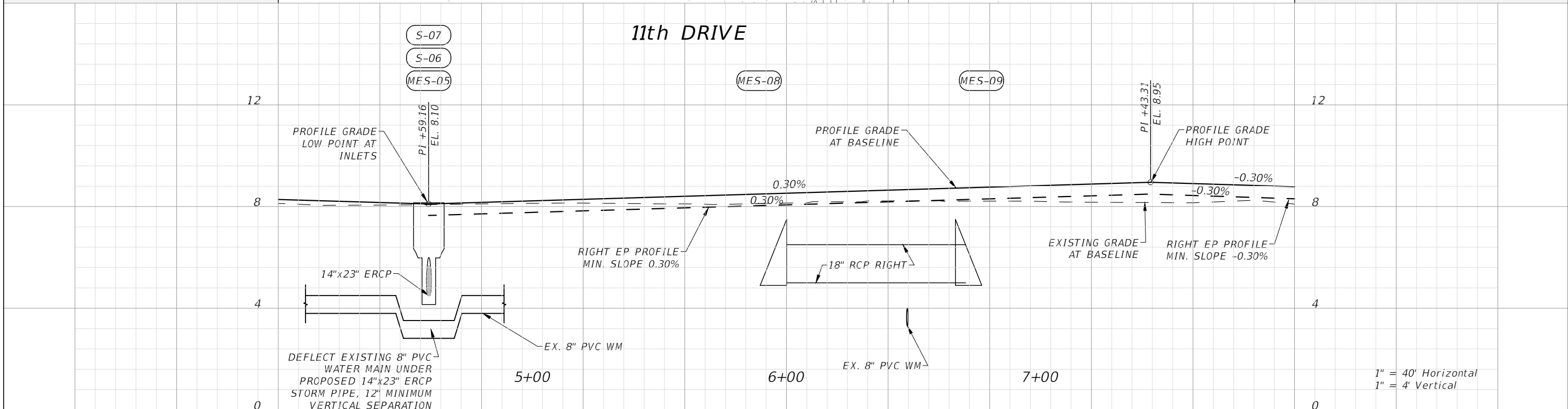


DESIGN SPEED 40MPH



11th DRIVE

11th DRIVE



1" = 40' Horizontal  
1" = 4' Vertical

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

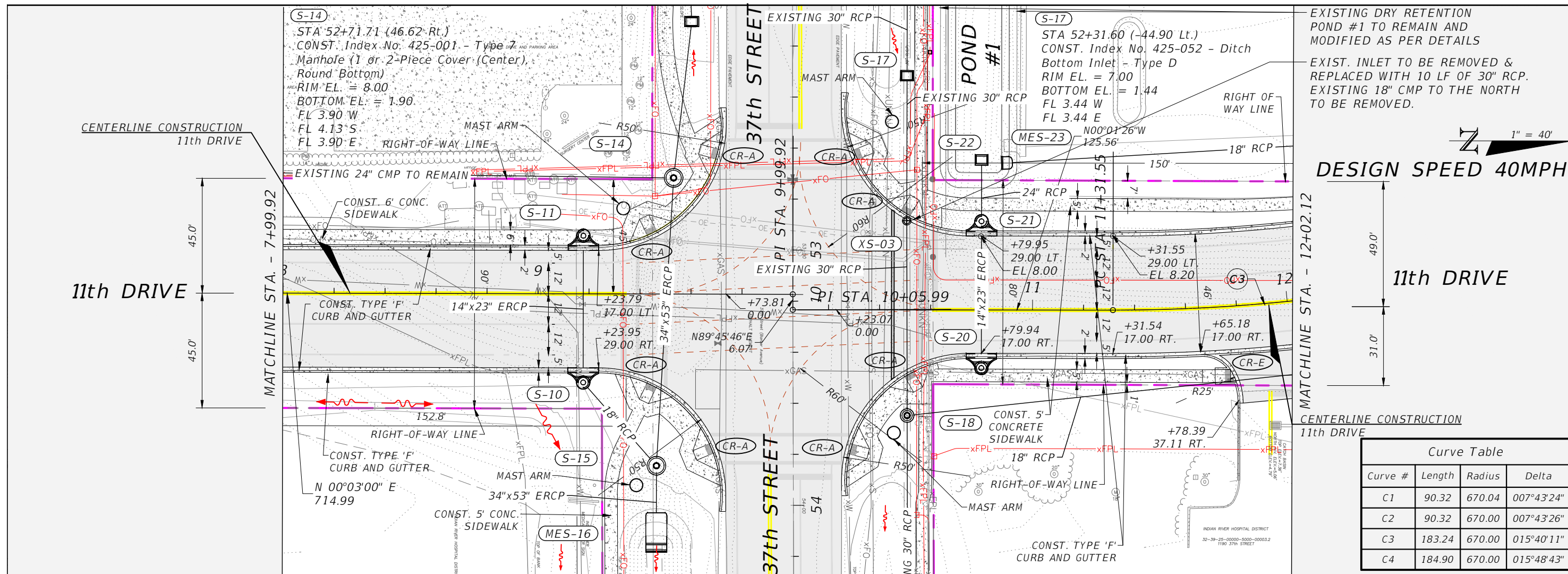
AARON STANTON, P.E.  
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INDIAN RIVER COUNTY		
DEPARTMENT OF PUBLIC WORKS/ENGINEERING DIVISION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
11th DRIVE	INDIAN RIVER	IRC: 2001 FDOT: N/A

**PLAN AND PROFILE - 11TH DRIVE**

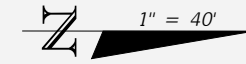
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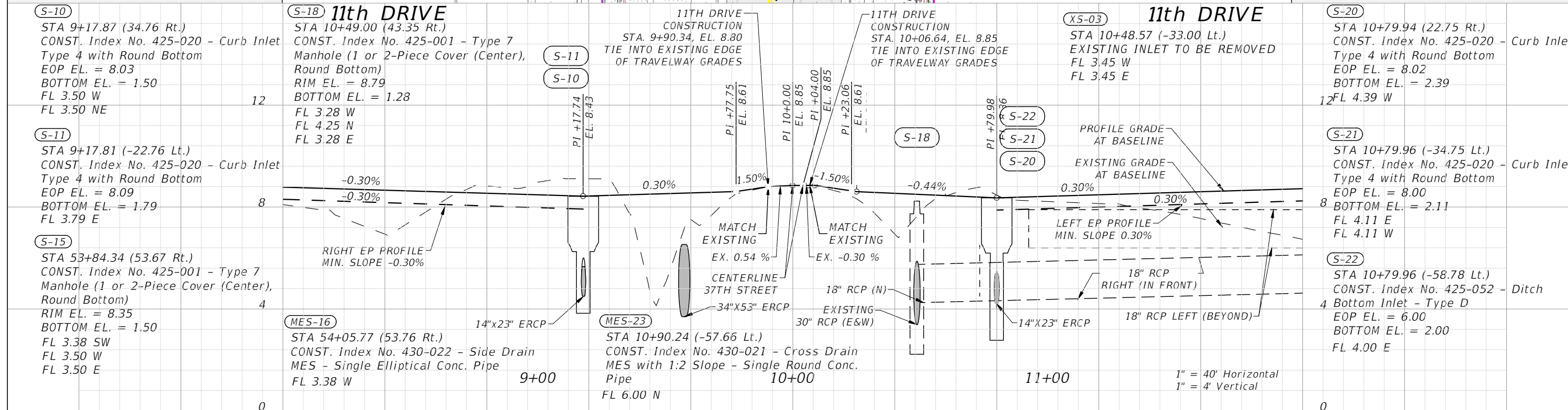
EXISTING DRY RETENTION POND #1 TO REMAIN AND MODIFIED AS PER DETAILS

EXIST. INLET TO BE REMOVED & REPLACED WITH 10 LF OF 30" RCP. EXISTING 18" CMP TO THE NORTH TO BE REMOVED.



DESIGN SPEED 40MPH

Curve Table			
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C2	90.32	670.00	007°43'26"
C3	183.24	670.00	015°40'11"
C4	184.90	670.00	015°48'43"



REVISIONS			
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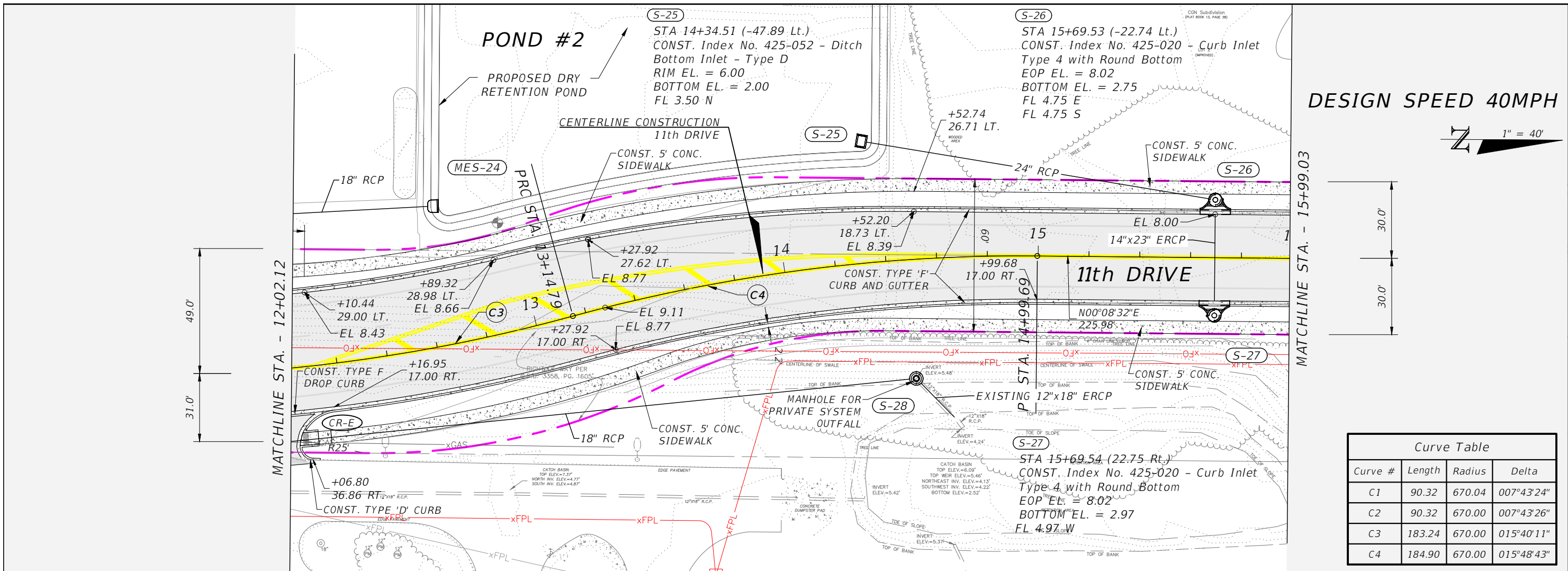
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INDIAN RIVER COUNTY DEPARTMENT OF PUBLIC WORKS/ENGINEERING DIVISION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
11th DRIVE	INDIAN RIVER	IRC: 2001 FDOT: N/A

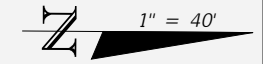
**PLAN AND PROFILE - 11TH DRIVE**

SHEET NO. 29

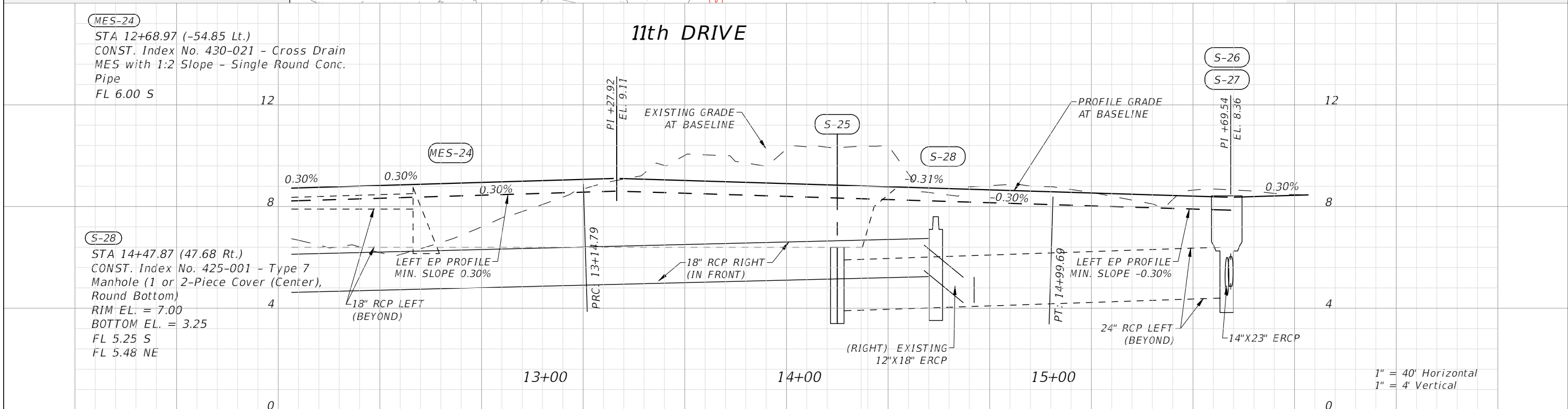
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Curve Table			
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1" = 40' Horizontal  
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REVISIONS			
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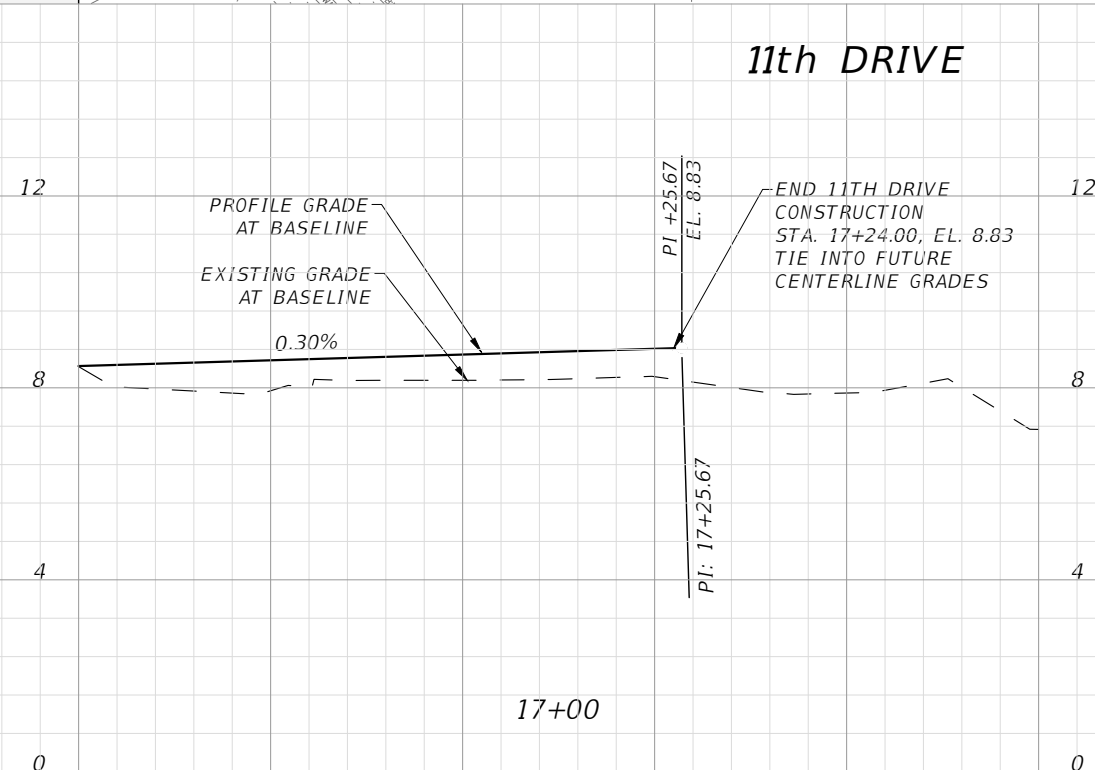
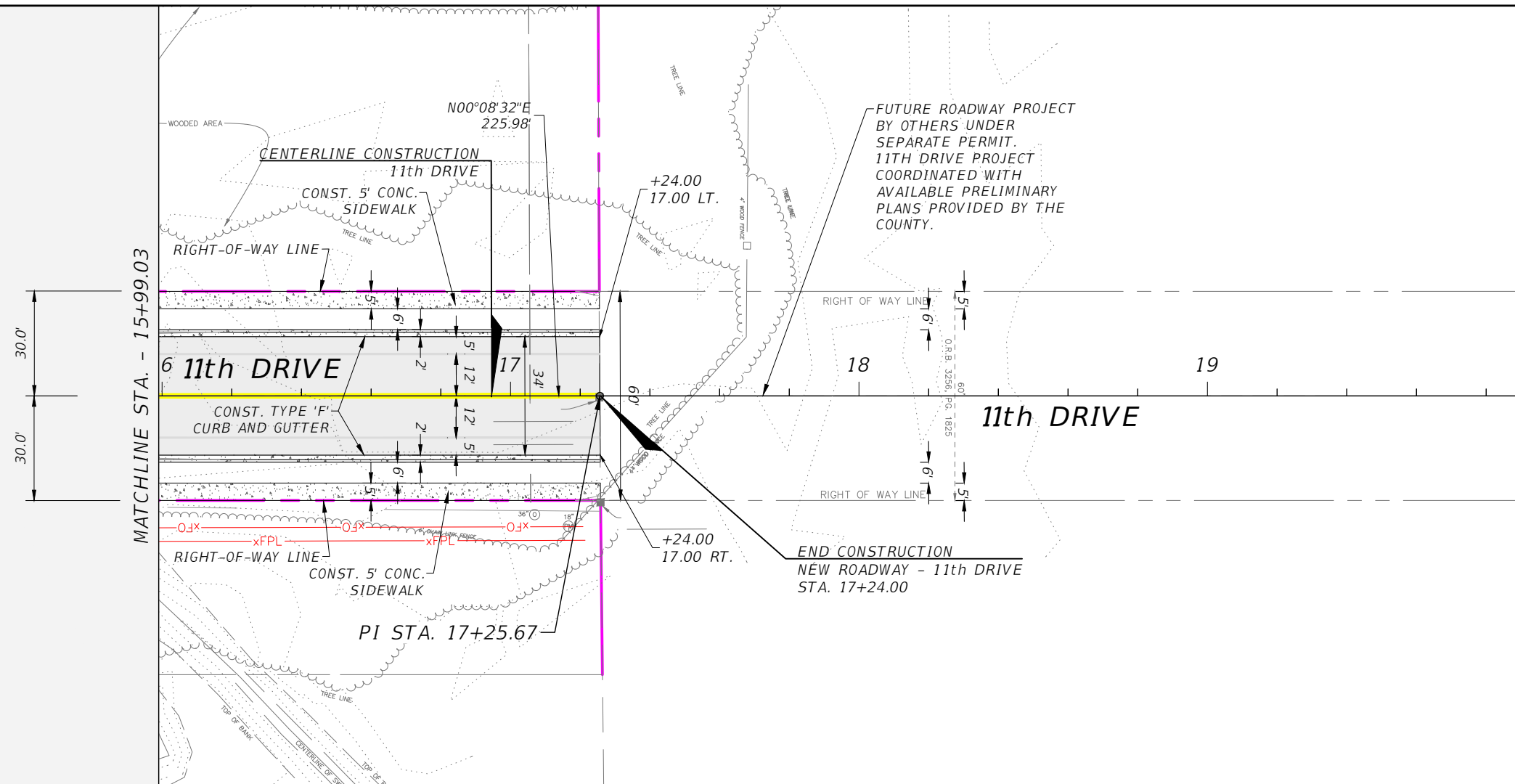
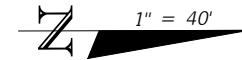
INDIAN RIVER COUNTY		
DEPARTMENT OF PUBLIC WORKS/ENGINEERING DIVISION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
11th DRIVE	INDIAN RIVER	IRC: 2001 FDOT: N/A

**PLAN AND PROFILE - 11TH DRIVE**

SHEET NO. 30

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DESIGN SPEED 40MPH



1" = 40' Horizontal  
1" = 4' Vertical

REVISIONS			
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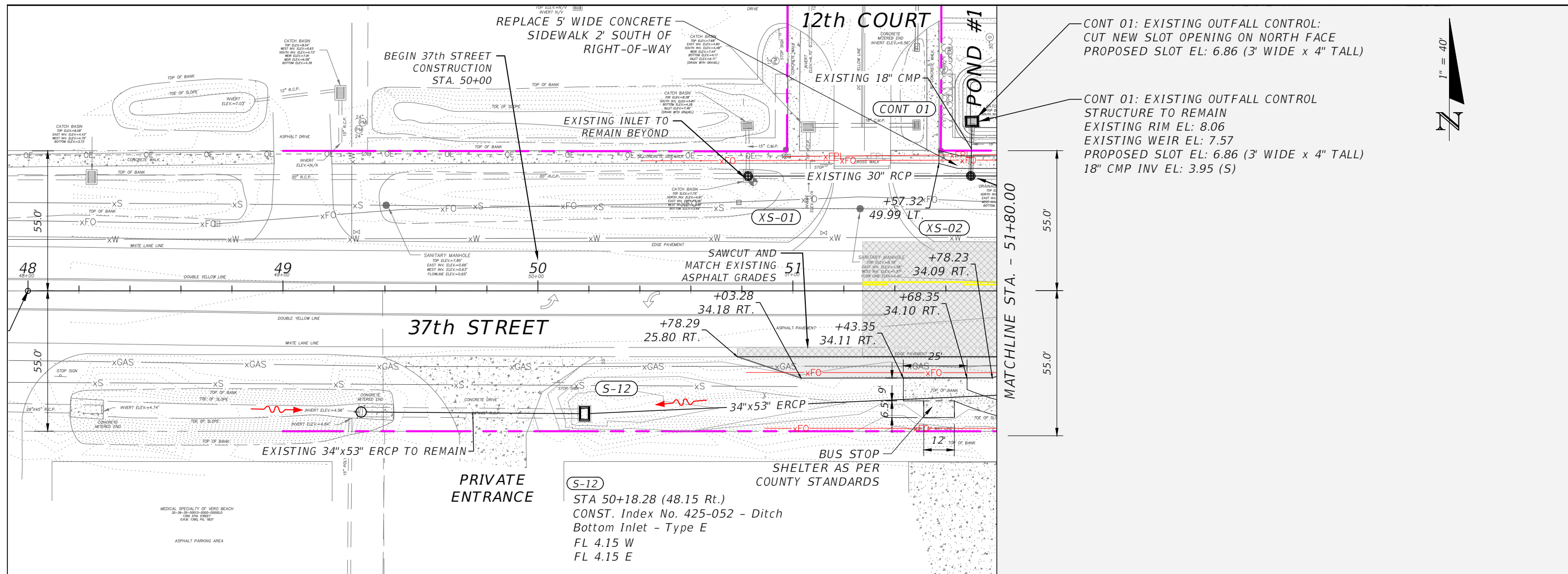
INDIAN RIVER COUNTY		
DEPARTMENT OF PUBLIC WORKS/ENGINEERING DIVISION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
11th DRIVE	INDIAN RIVER	IRC: 2001 FDOT: N/A

**PLAN AND PROFILE - 11TH DRIVE**

SHEET NO.  
31

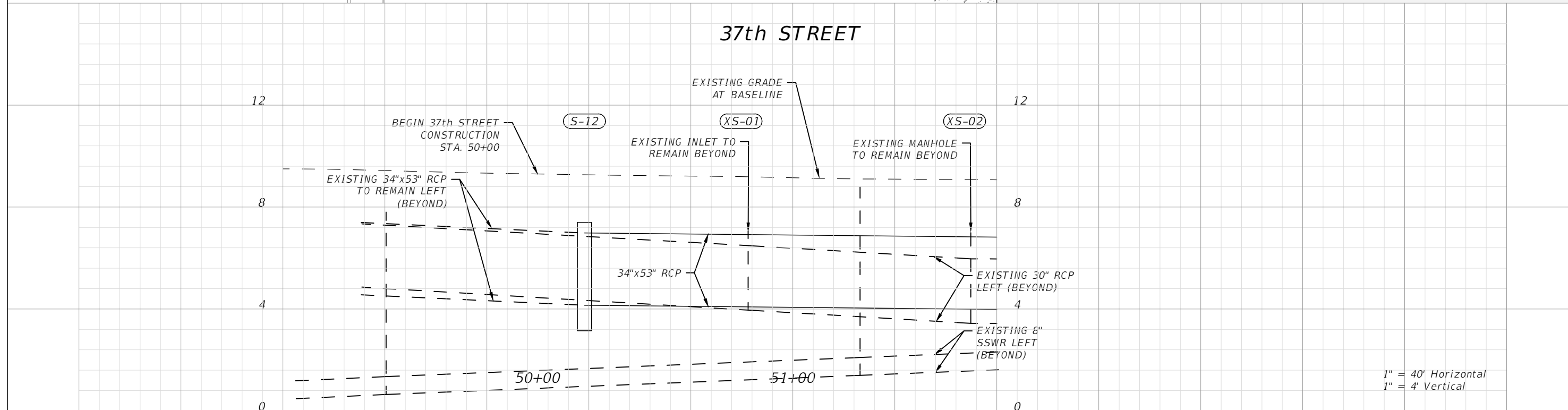
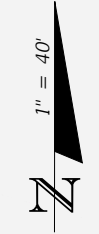
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CONT 01: EXISTING OUTFALL CONTROL:  
CUT NEW SLOT OPENING ON NORTH FACE  
PROPOSED SLOT EL: 6.86 (3' WIDE x 4" TALL)

CONT 01: EXISTING OUTFALL CONTROL  
STRUCTURE TO REMAIN  
EXISTING RIM EL: 8.06  
EXISTING WEIR EL: 7.57  
PROPOSED SLOT EL: 6.86 (3' WIDE x 4" TALL)  
18" CMP INV EL: 3.95 (S)



1" = 40' Horizontal  
1" = 4' Vertical

REVISIONS			
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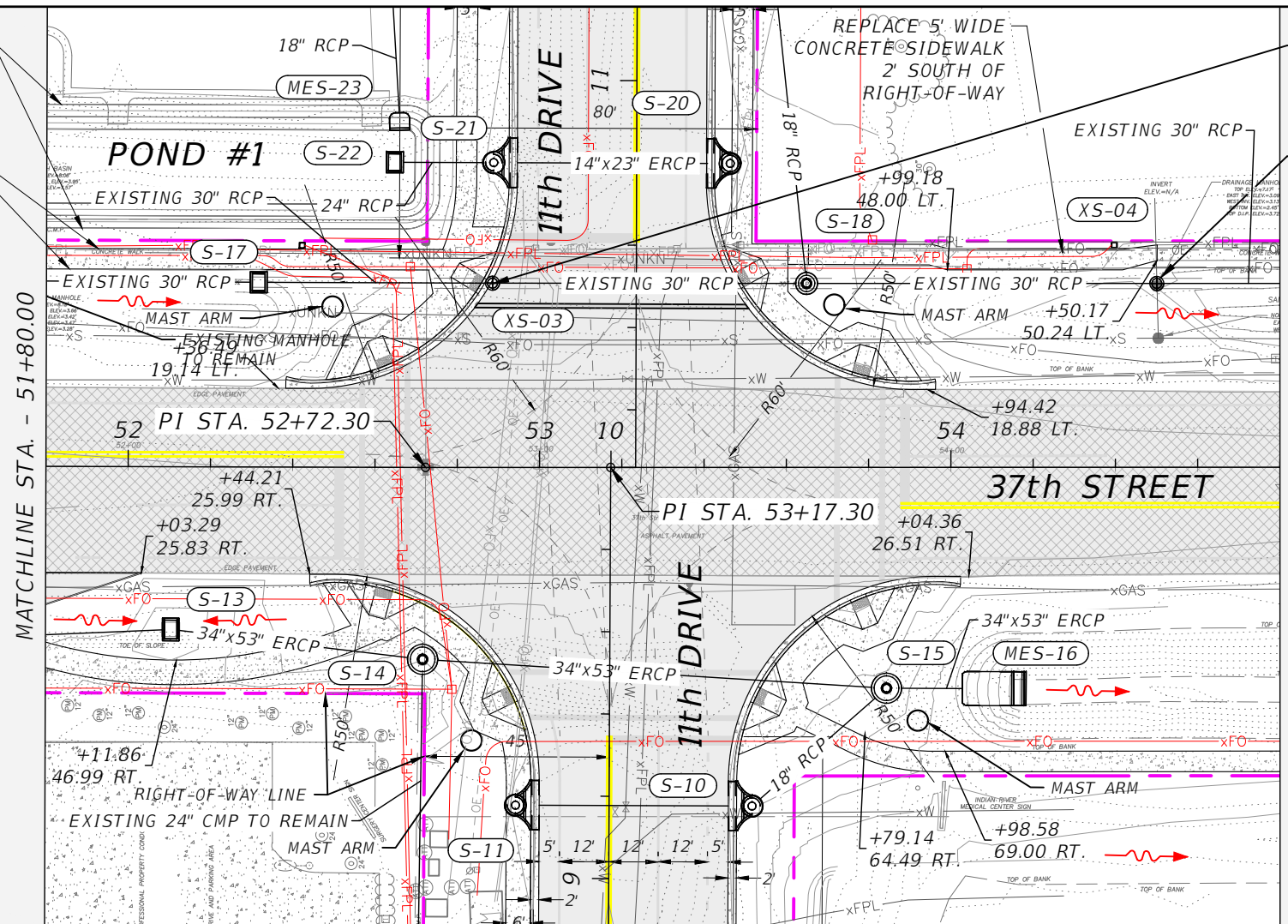
INDIAN RIVER COUNTY		
DEPARTMENT OF PUBLIC WORKS/ENGINEERING DIVISION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
11th DRIVE	INDIAN RIVER	IRC: 2001 FDOT: N/A

**PLAN AND PROFILE - 37TH STREET**

SHEET NO.  
32

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EXISTING DRY RETENTION POND #1 TO REMAIN AND TO BE MODIFIED AS PER DETAILS  
 REPLACE EXISTING 5' WIDE CONCRETE SIDEWALK 2' SOUTH OF RIGHT-OF-WAY



EXIST. INLET TO BE REMOVED & REPLACED WITH 10 LF OF 30" RCP. EXISTING 18" CMP TO THE NORTH TO BE REMOVED.  
 EXIST. MANHOLE TO REMAIN



**37th STREET**

(S-13)  
 STA 52+10.45 (39.53 Rt.)  
 CONST. Index No. 425-052 - Ditch  
 Bottom Inlet - Type E  
 FL 3.96 W  
 FL 3.96 E

(MES-16)  
 STA 54+05.77 (53.76 Rt.)  
 CONST. Index No. 430-022 - Side Drain  
 MES - Single Elliptical Conc. Pipe  
 FL 3.38 W

(S-17)  
 STA 52+31.60 (-44.90 Lt.)  
 CONST. Index No. 425-052 - Ditch  
 Bottom Inlet - Type D  
 FL 3.44 W  
 FL 3.44 E

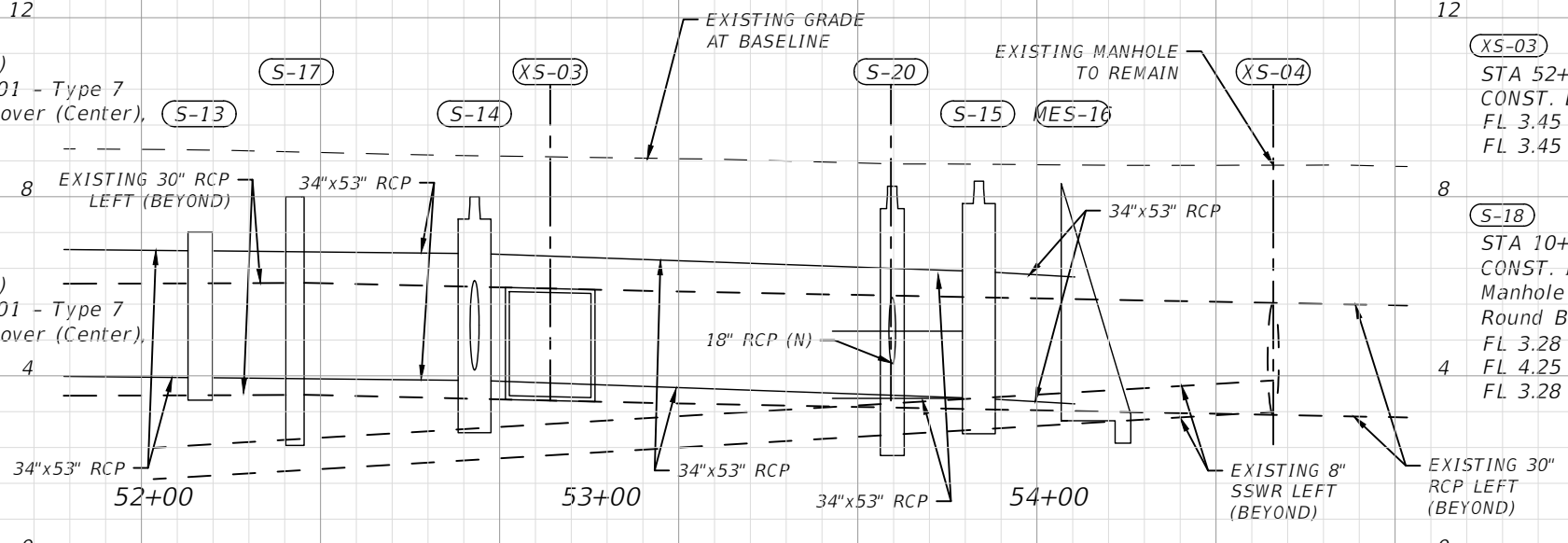
(S-14)  
 STA 52+71.71 (46.62 Rt.)  
 CONST. Index No. 425-001 - Type 7  
 Manhole (1 or 2-Piece Cover (Center), Round Bottom)  
 FL 3.90 W  
 FL 4.13 S  
 FL 3.90 E

(S-17)  
 STA 53+84.34 (53.67 Rt.)  
 CONST. Index No. 425-001 - Type 7  
 Manhole (1 or 2-Piece Cover (Center), Round Bottom)  
 FL 3.38 SW  
 FL 3.50 W  
 FL 3.50 E

(XS-03)  
 STA 52+88.59 (-44.79 Lt.)  
 CONST. EXISTING INLET TO BE REMOVED  
 FL 3.45 W  
 FL 3.45 E

(S-15)  
 STA 53+84.34 (53.67 Rt.)  
 CONST. Index No. 425-001 - Type 7  
 Manhole (1 or 2-Piece Cover (Center), Round Bottom)  
 FL 3.38 SW  
 FL 3.50 W  
 FL 3.50 E

(S-18)  
 STA 10+49.00 (43.35 Rt.)  
 CONST. Index No. 425-001 - Type 7  
 Manhole (1 or 2-Piece Cover (Center), Round Bottom)  
 FL 3.28 W  
 FL 4.25 N  
 FL 3.28 E



1" = 40' Horizontal  
 1" = 4' Vertical

**REVISIONS**

DATE	DESCRIPTION	DATE	DESCRIPTION

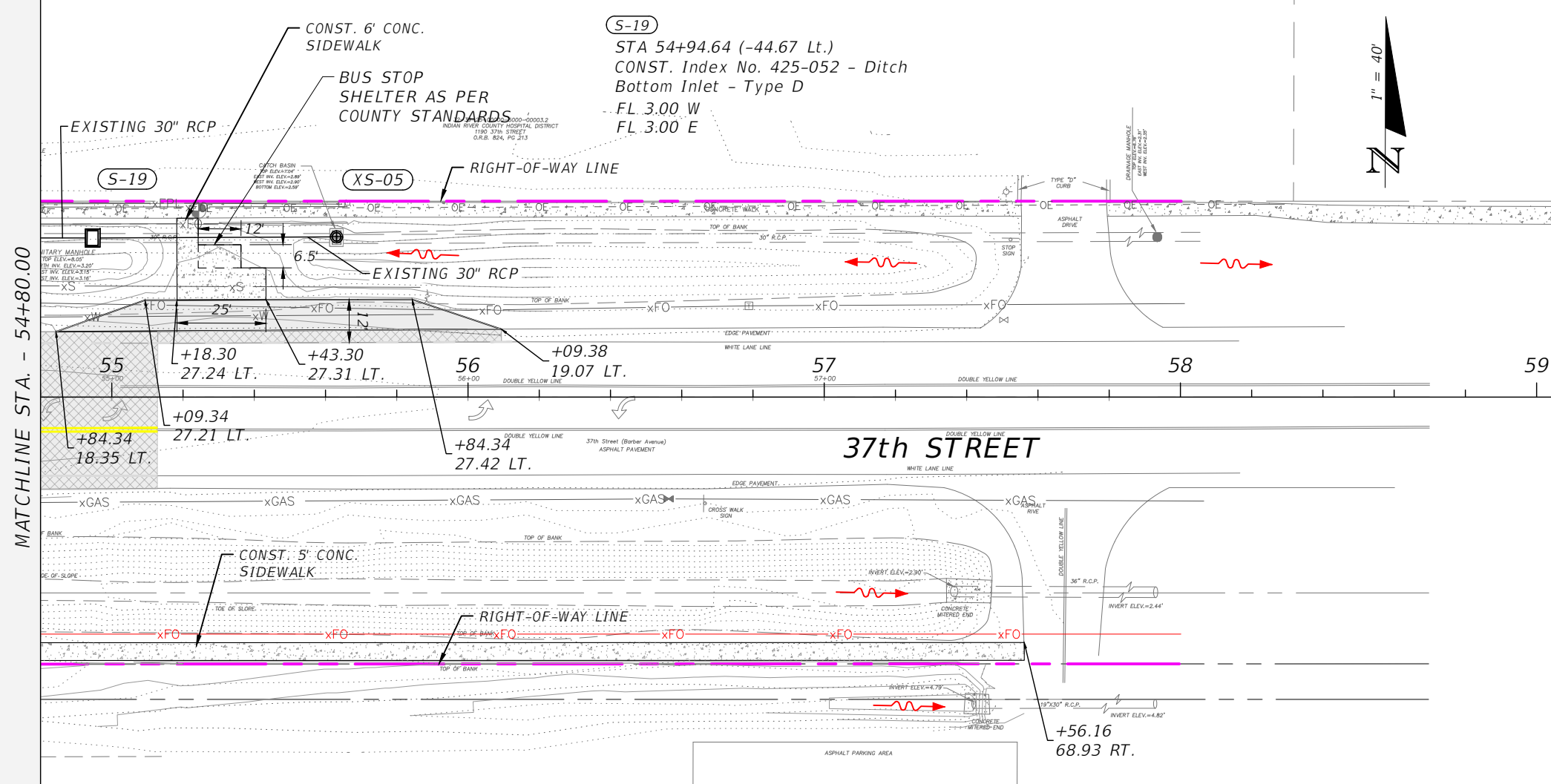
AARON STANTON, P.E.  
 P.E. LICENSE NUMBER 72460  
 MBV ENGINEERING, INC.  
 1835 20th STREET  
 VERO BEACH, FL 32960  
 CERTIFICATE OF AUTHORIZATION 3728

INDIAN RIVER COUNTY		
DEPARTMENT OF PUBLIC WORKS/ENGINEERING DIVISION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
11th DRIVE	INDIAN RIVER	IRC: 2001 FDOT: N/A

**PLAN AND PROFILE - 37TH STREET**

SHEET NO.  
 33

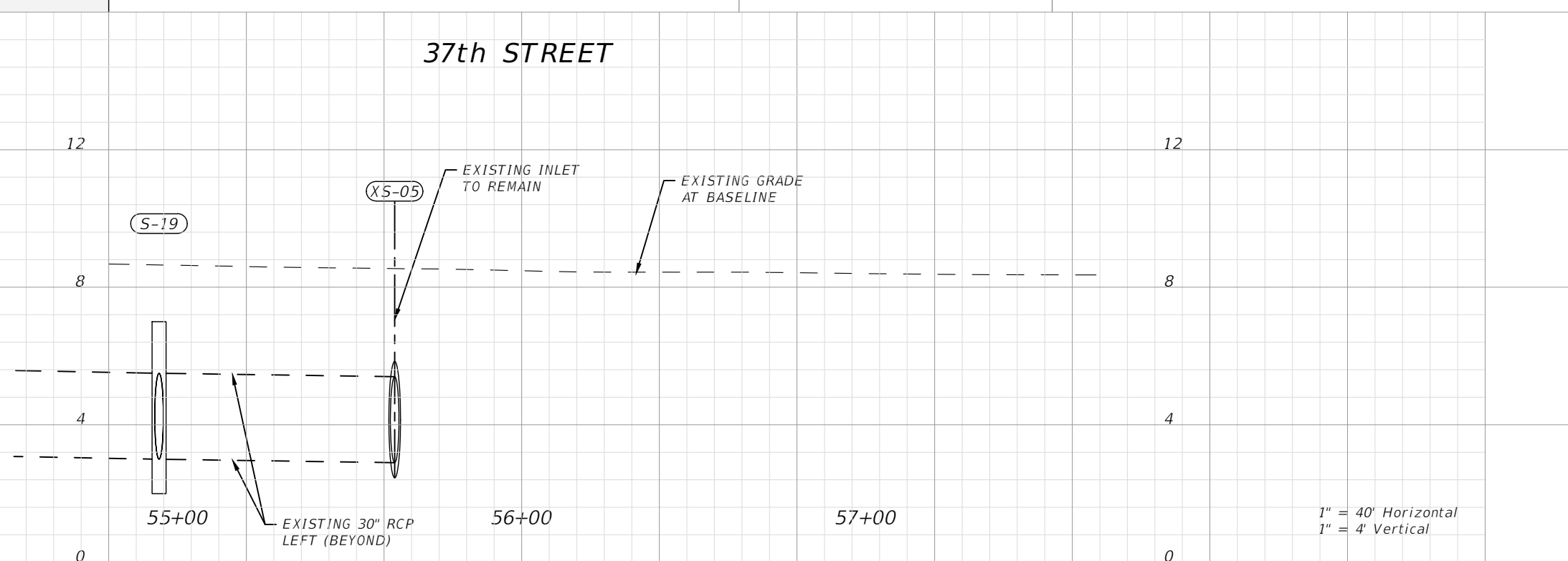
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



MATCHLINE STA. - 54+80.00

55.0'

75.0'



1" = 40' Horizontal  
1" = 4' Vertical

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

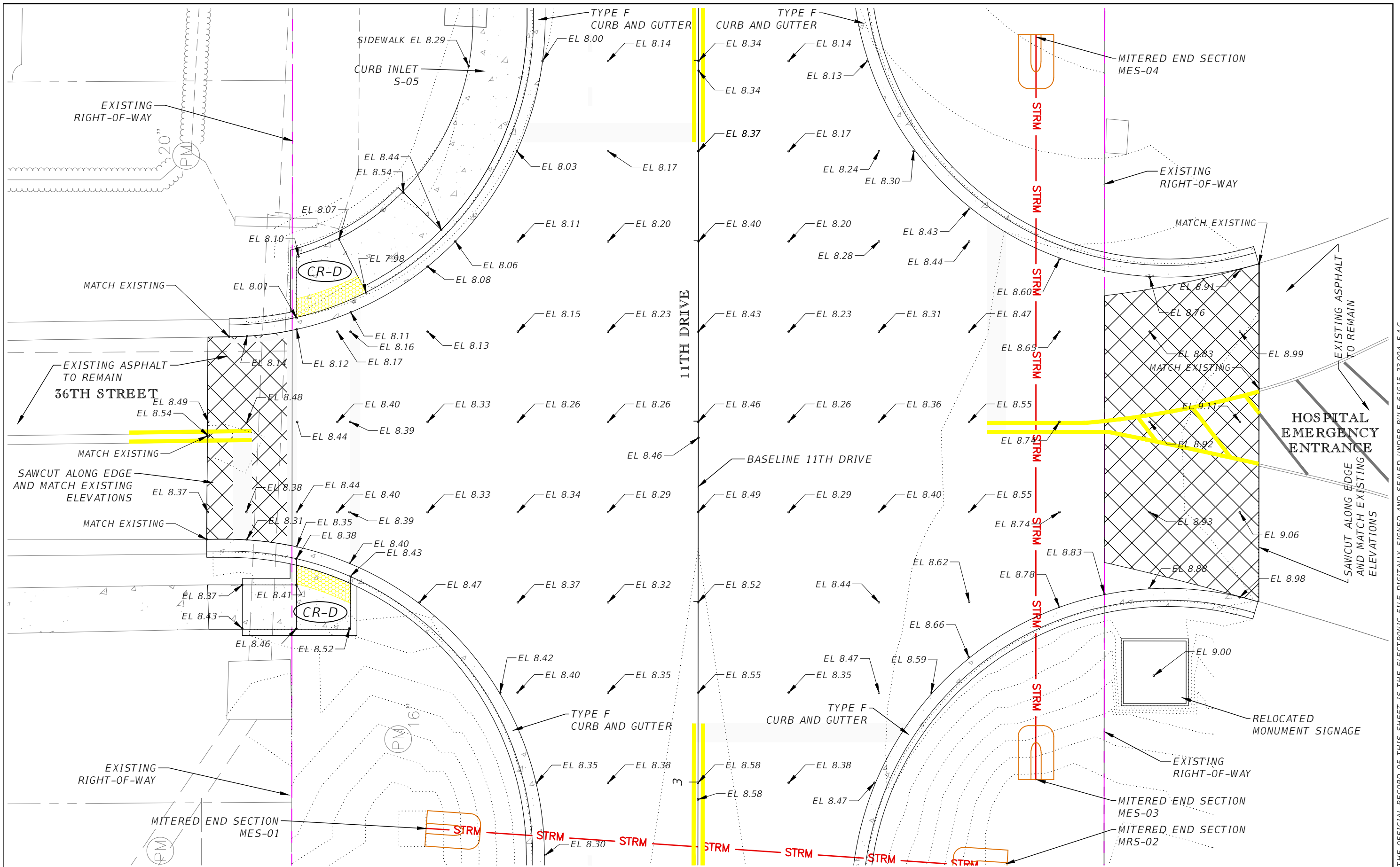
AARON STANTON, P.E.  
P.E. LICENSE NUMBER 72460  
MBV ENGINEERING, INC.  
1835 20th STREET  
VERO BEACH, FL 32960  
CERTIFICATE OF AUTHORIZATION 3728

INDIAN RIVER COUNTY		
DEPARTMENT OF PUBLIC WORKS/ENGINEERING DIVISION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
11th DRIVE	INDIAN RIVER	IRC: 2001 FDOT: N/A

**PLAN AND PROFILE - 37TH STREET**

SHEET NO.  
34

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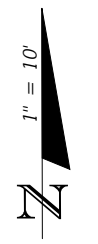
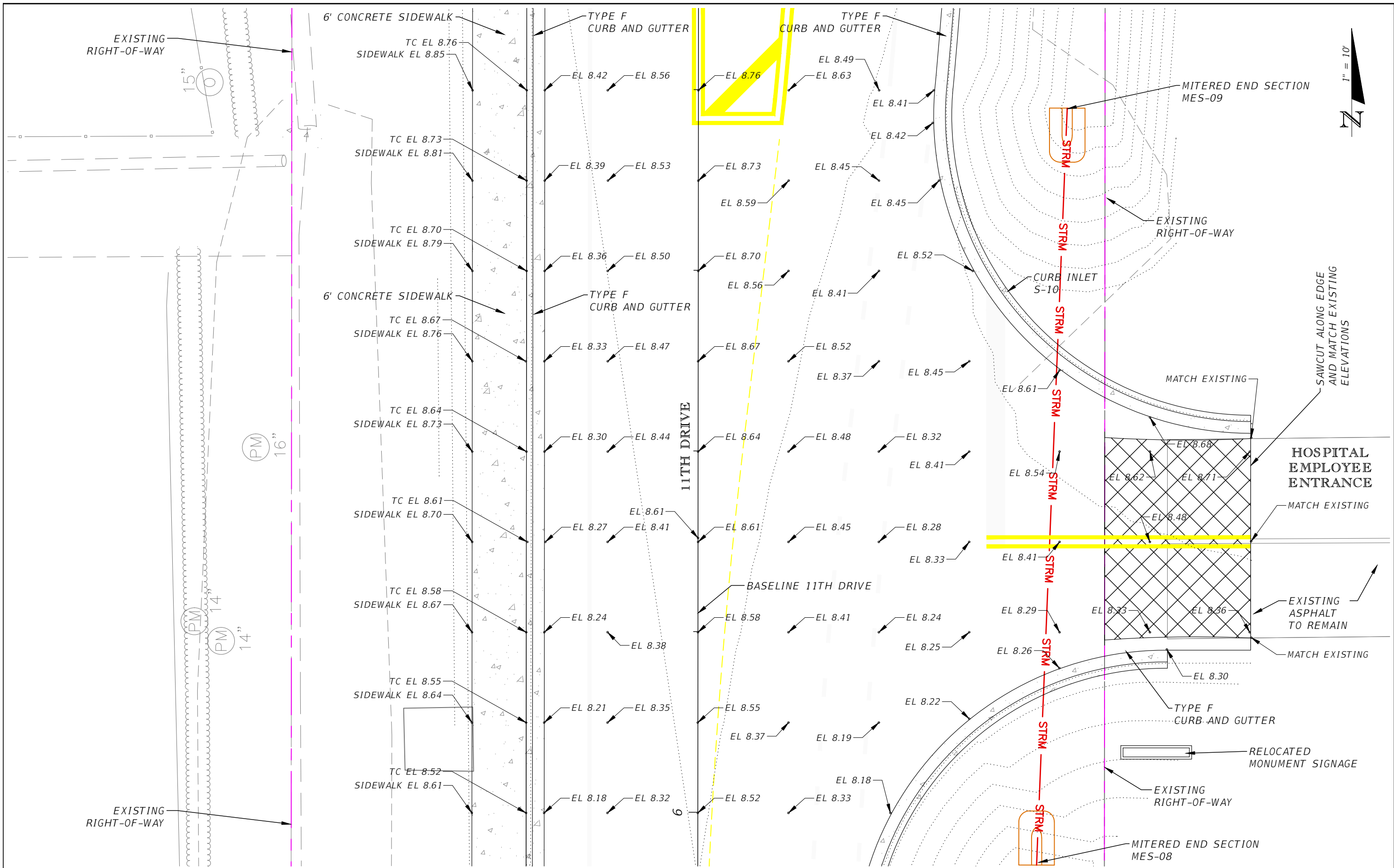
REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

AARON STANTON, P.E.  
P.E. LICENSE NUMBER 72460  
MBV ENGINEERING, INC.  
1835 20th STREET  
VERO BEACH, FL 32960  
CERTIFICATE OF AUTHORIZATION 3728

INDIAN RIVER COUNTY		
DEPARTMENT OF PUBLIC WORKS/ENGINEERING DIVISION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
11th DRIVE	INDIAN RIVER	IRC: 2001 FDOT: N/A

**INTERSECTION GRADING  
DETAILS**

SHEET NO.  
35



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

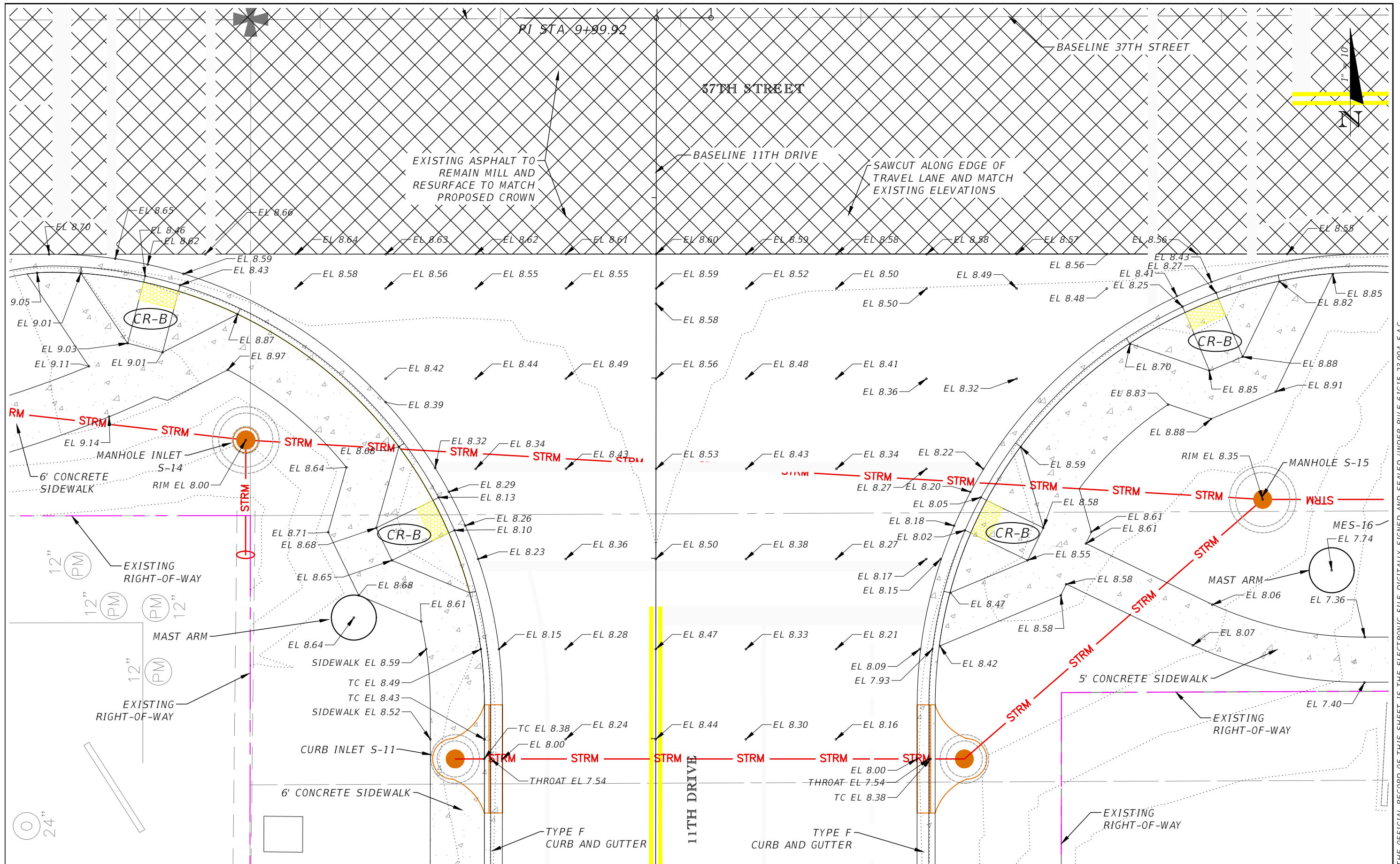
AARON STANTON, P.E.  
P.E. LICENSE NUMBER 72460  
MBV ENGINEERING, INC.  
1835 20th STREET  
VERO BEACH, FL 32960  
CERTIFICATE OF AUTHORIZATION 3728

INDIAN RIVER COUNTY		
DEPARTMENT OF PUBLIC WORKS/ENGINEERING DIVISION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
11th DRIVE	INDIAN RIVER	IRC: 2001 FDOT: N/A

**INTERSECTION GRADING  
DETAILS**

SHEET NO.  
36

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

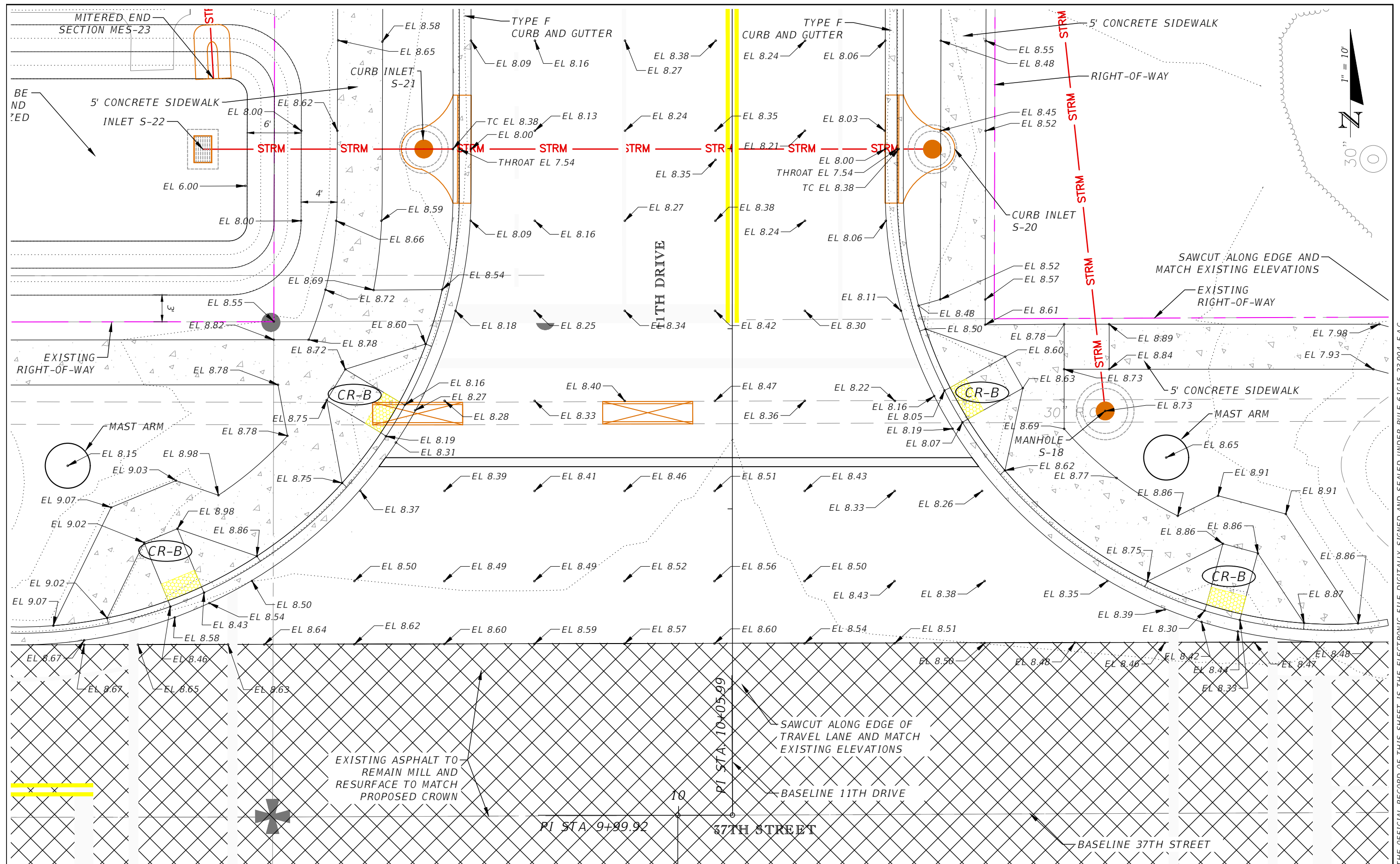
REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

AARON STANTON, P.E.  
P.E. LICENSE NUMBER 72460  
MBV ENGINEERING, INC.  
1835 20th STREET  
VERO BEACH, FL 32960  
CERTIFICATE OF AUTHORIZATION 3728

INDIAN RIVER COUNTY		
DEPARTMENT OF PUBLIC WORKS/ENGINEERING DIVISION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
11th DRIVE	INDIAN RIVER	IRC: 2001 FDOT: N/A

**INTERSECTION GRADING  
DETAILS**

SHEET NO.
37



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

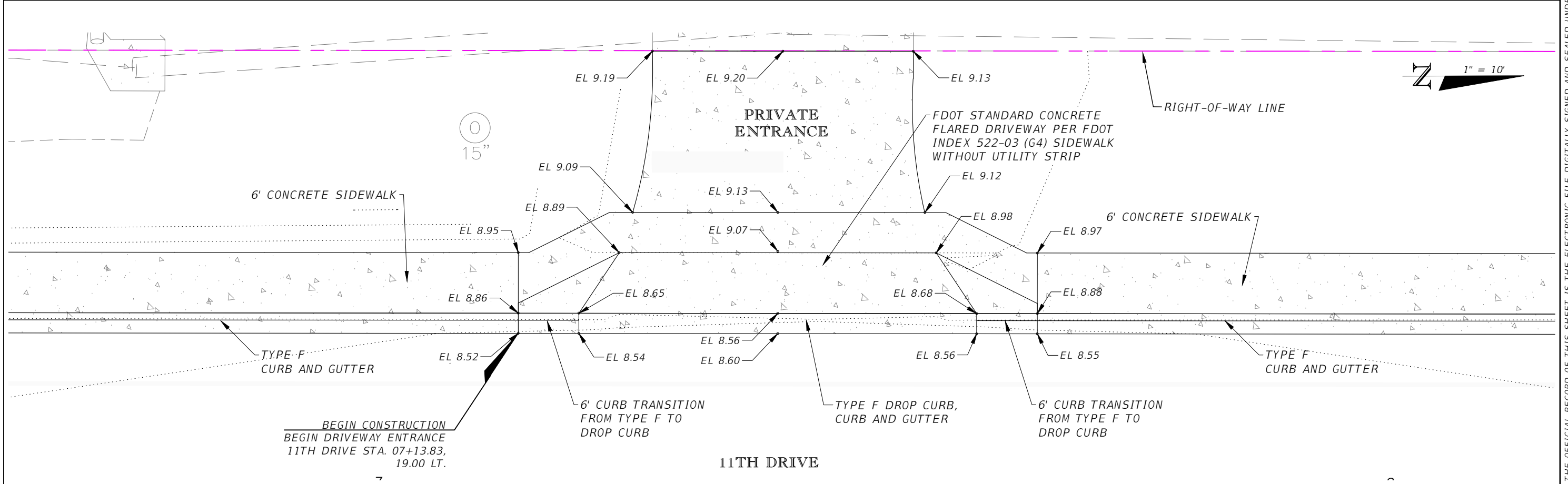
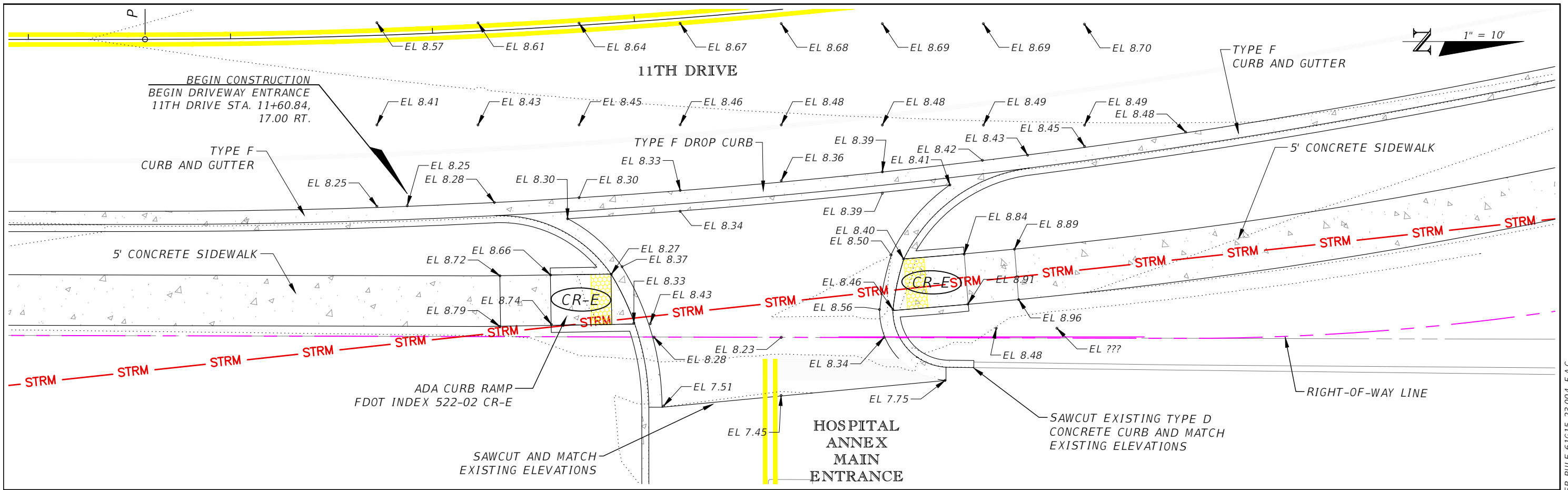
REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

AARON STANTON, P.E.  
 P.E. LICENSE NUMBER 72460  
 MBV ENGINEERING, INC.  
 1835 20th STREET  
 VERO BEACH, FL 32960  
 CERTIFICATE OF AUTHORIZATION 3728

INDIAN RIVER COUNTY		
DEPARTMENT OF PUBLIC WORKS/ENGINEERING DIVISION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
11th DRIVE	INDIAN RIVER	IRC: 2001 FDOT: N/A

**INTERSECTION GRADING  
 DETAILS**

SHEET NO.  
 38



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

AARON STANTON, P.E.  
P.E. LICENSE NUMBER 72460  
MBV ENGINEERING, INC.  
1835 20th STREET  
VERO BEACH, FL 32960  
CERTIFICATE OF AUTHORIZATION 3728

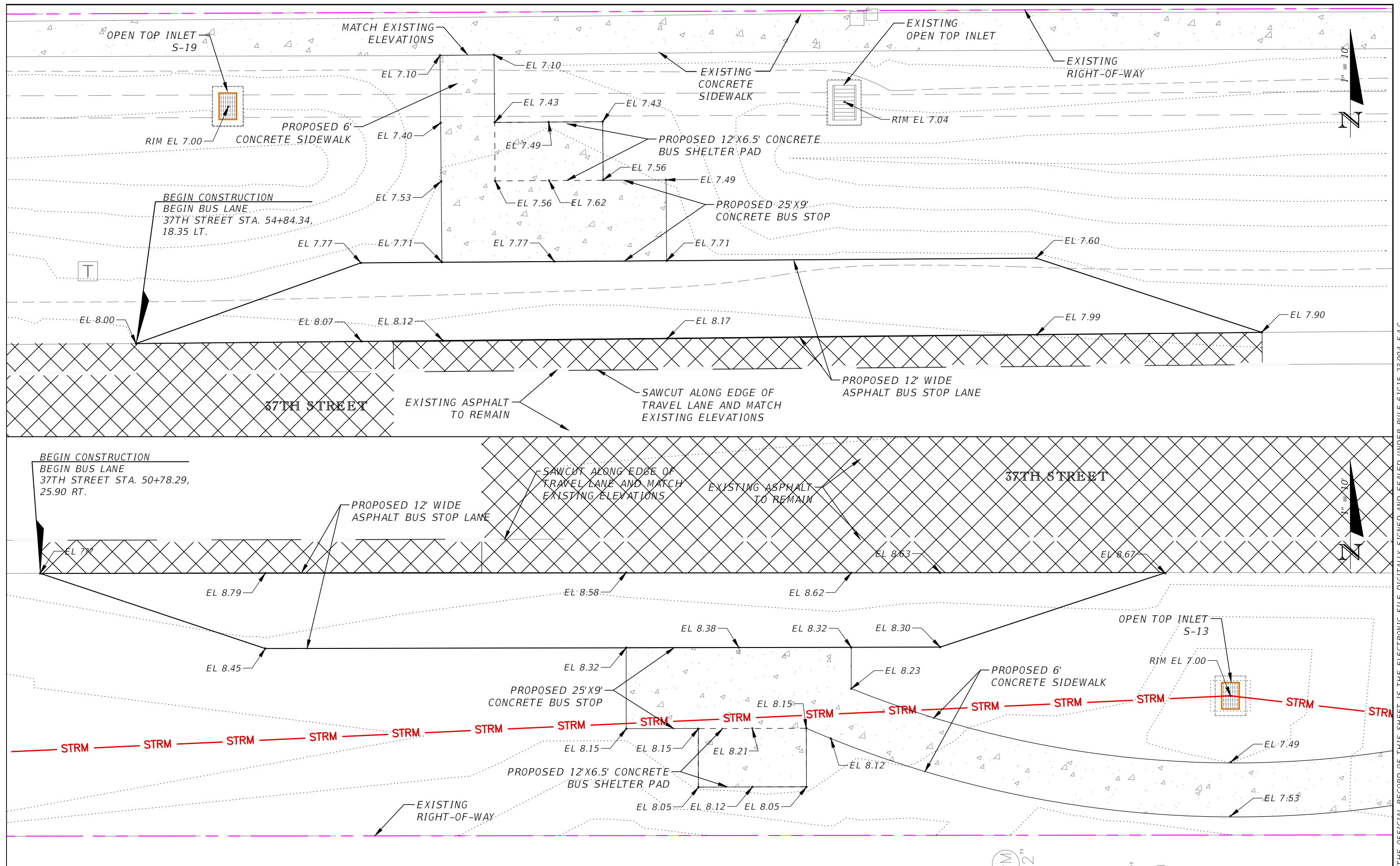
INDIAN RIVER COUNTY		
DEPARTMENT OF PUBLIC WORKS/ENGINEERING DIVISION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
11th DRIVE	INDIAN RIVER	IRC: 2001 FDOT: N/A

**DRIVEWAY GRADING DETAILS**

SHEET NO.  
39

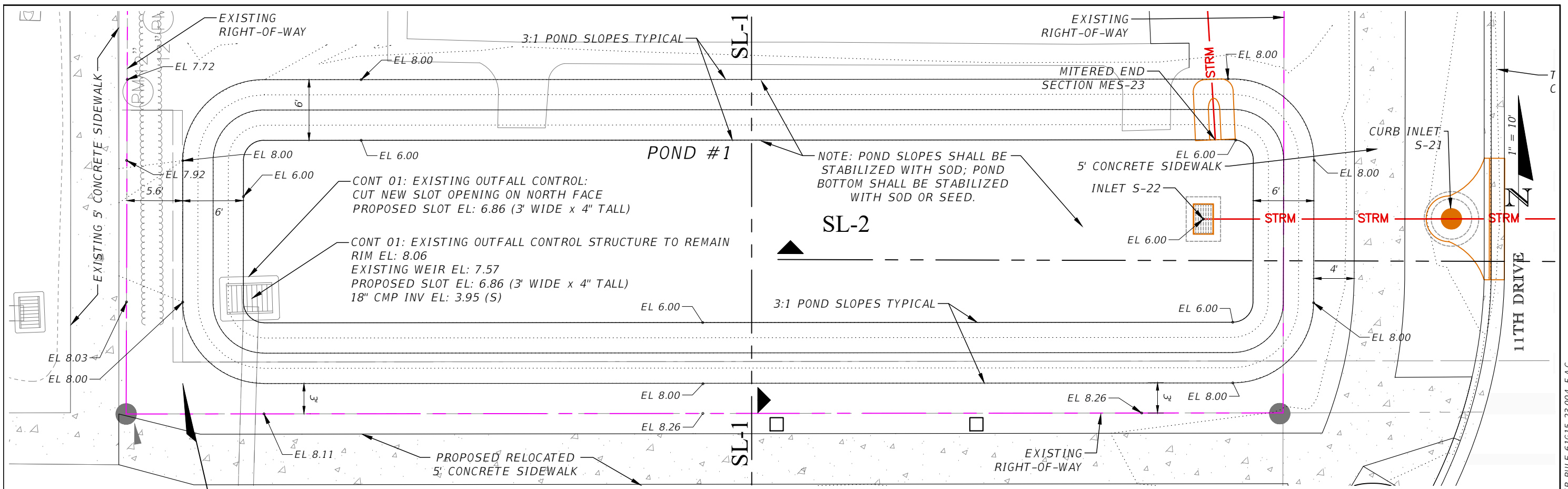
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.





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

REVISIONS				AARON STANTON, P.E. P.E. LICENSE NUMBER 72460 MBV ENGINEERING, INC. 1835 20th STREET VERO BEACH, FL 32960 CERTIFICATE OF AUTHORIZATION 3728	INDIAN RIVER COUNTY DEPARTMENT OF PUBLIC WORKS/ENGINEERING DIVISION			<b>BUS STOP GRADING DETAILS</b>	SHEET NO. 40
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					11th DRIVE	INDIAN RIVER	IRC: 2001 FDOT: N/A		

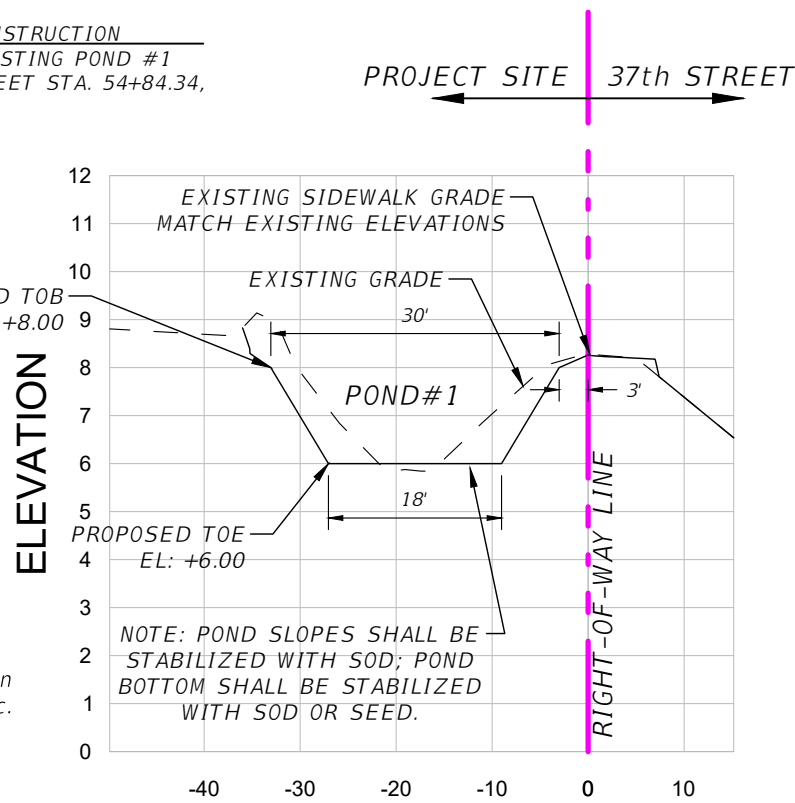


**BEGIN CONSTRUCTION**  
 BEGIN EXISTING POND #1  
 37TH STREET STA. 54+84.34,  
 18.35 LT.

**(S-21)**  
 STA 10+79.96 (-34.75 Lt.)  
 CONST. Index No. 425-020 - Curb Inlet  
 Type 4 with Round Bottom  
 EOP EL. = 8.00  
 BOTTOM EL. = 2.11  
 FL 4.11 E  
 FL 4.11 W

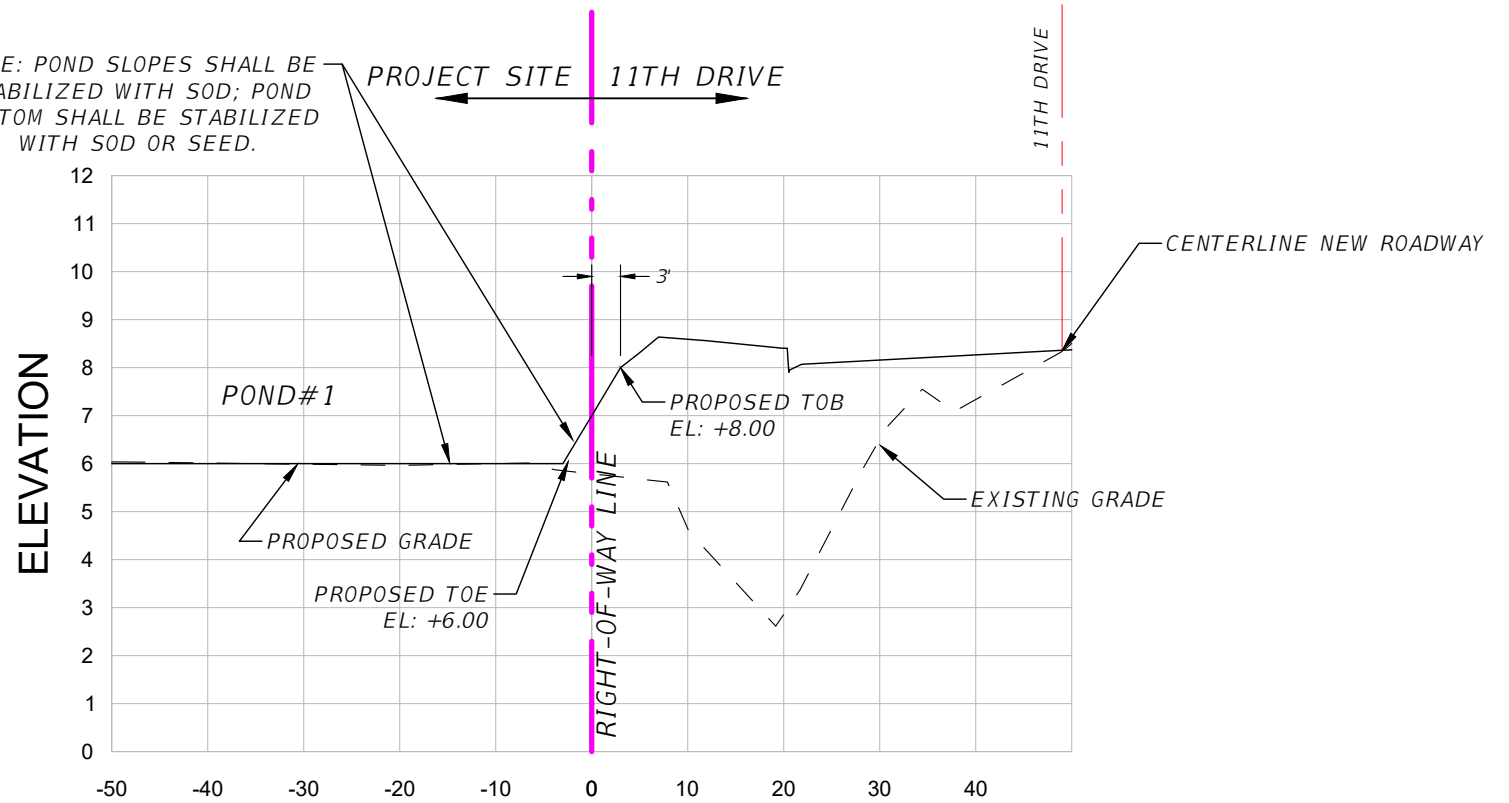
**(S-22)**  
 STA 10+79.96 (-58.78 Lt.)  
 CONST. Index No. 425-052 - Ditch  
 Bottom Inlet - Type D  
 EOP EL. = 6.00  
 BOTTOM EL. = 2.00  
 FL 4.00 E

**(MES-23)**  
 STA 10+90.24 (-57.66 Lt.)  
 CONST. Index No. 430-021 - Cross Drain  
 MES with 1:2 Slope - Single Round Conc.  
 Pipe  
 FL 6.00 N



**SECTION SL-1**

**BEGIN CONSTRUCTION**  
 BEGIN EXISTING POND #1  
 11TH DRIVE STA. 54+84.34,  
 18.35 LT.



**SECTION SL-2**

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

AARON STANTON, P.E.  
 P.E. LICENSE NUMBER 72460  
 MBV ENGINEERING, INC.  
 1835 20th STREET  
 VERO BEACH, FL 32960  
 CERTIFICATE OF AUTHORIZATION 3728

INDIAN RIVER COUNTY		
DEPARTMENT OF PUBLIC WORKS/ENGINEERING DIVISION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
11th DRIVE	INDIAN RIVER	IRC: 2001 FDOT: N/A

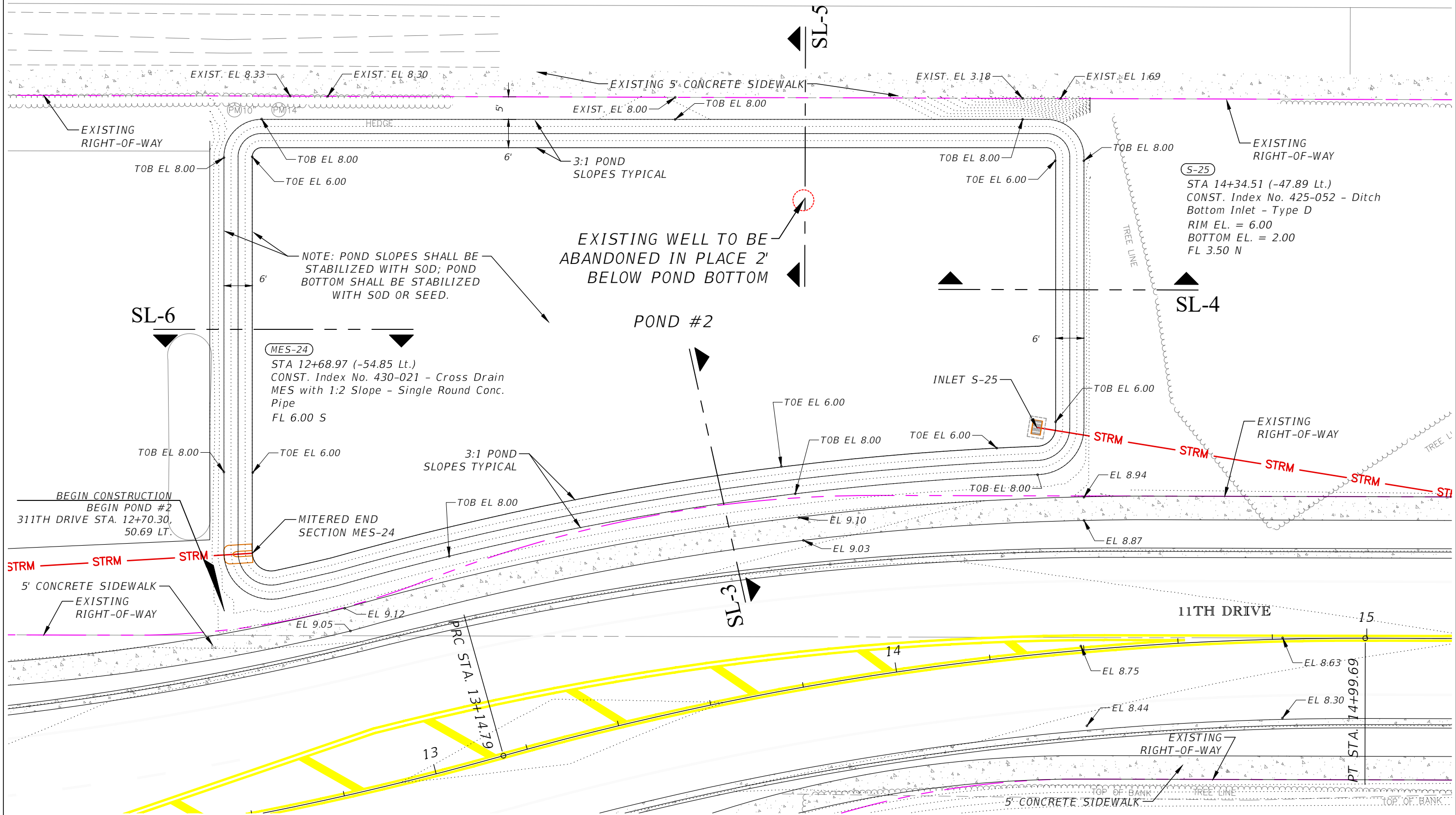
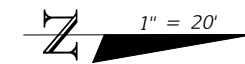
**POND GRADING DETAILS**

SHEET NO.  
41

11th Drive

(60' WIDE RIGHT OF WAY)

12TH COURT



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

AARON STANTON, P.E.  
 P.E. LICENSE NUMBER 72460  
 MBV ENGINEERING, INC.  
 1835 20th STREET  
 VERO BEACH, FL 32960  
 CERTIFICATE OF AUTHORIZATION 3728

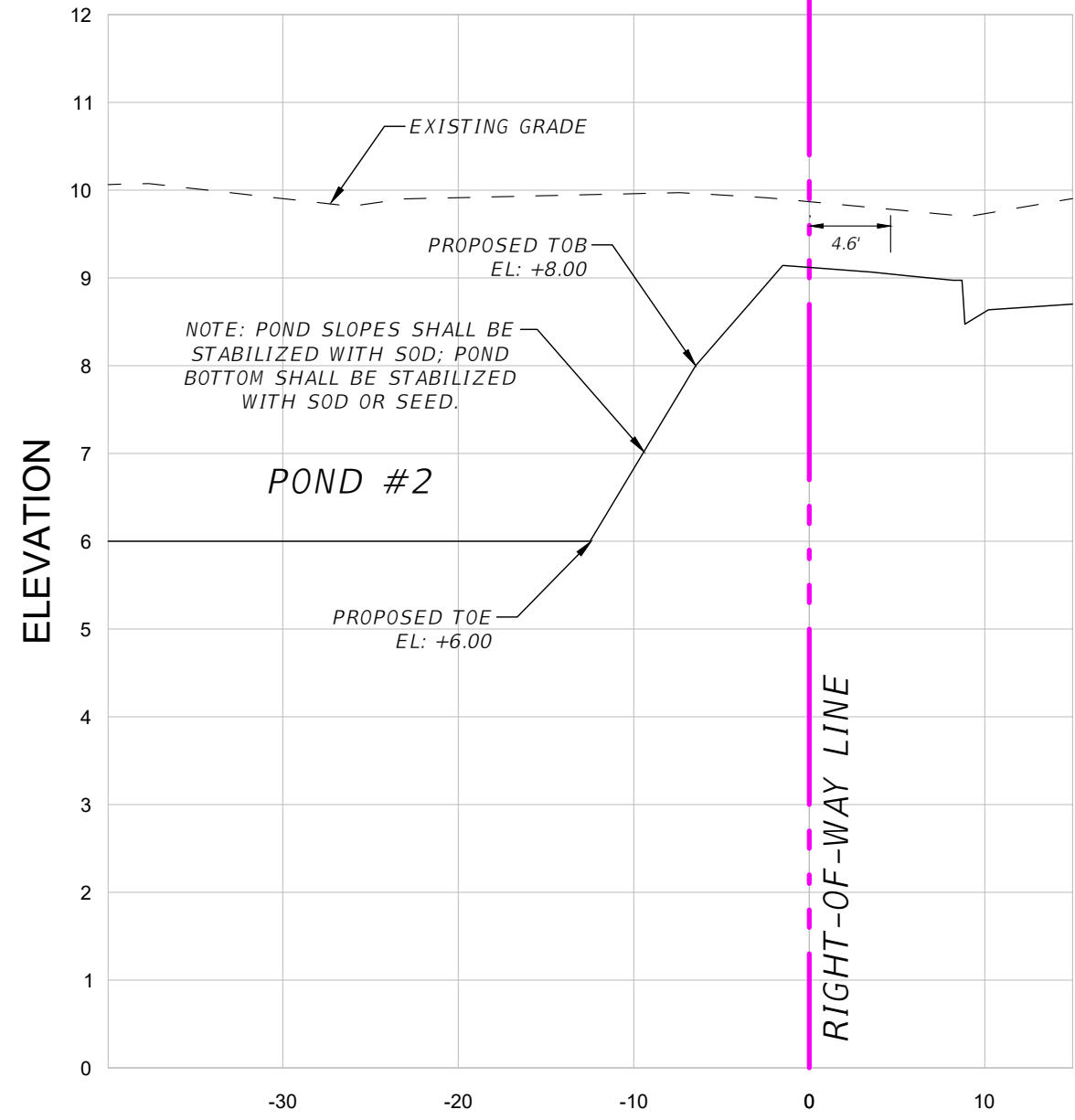
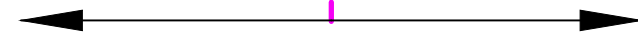
INDIAN RIVER COUNTY		
DEPARTMENT OF PUBLIC WORKS/ENGINEERING DIVISION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
11th DRIVE	INDIAN RIVER	IRC: 2001 FDOT: N/A

*POND GRADING DETAILS*

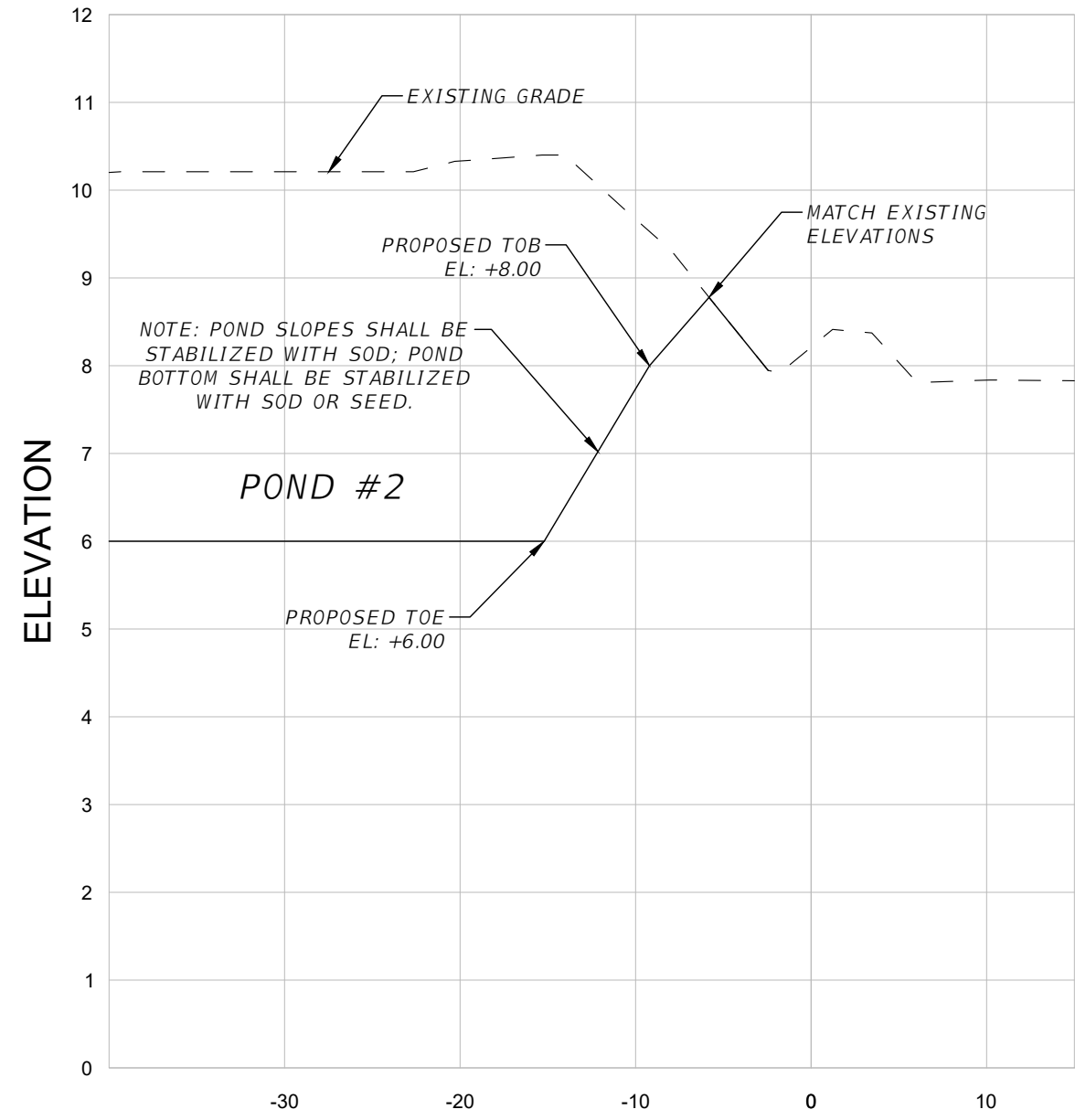
SHEET NO.  
42

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PROJECT SITE      11TH DRIVE



SECTION SL-3



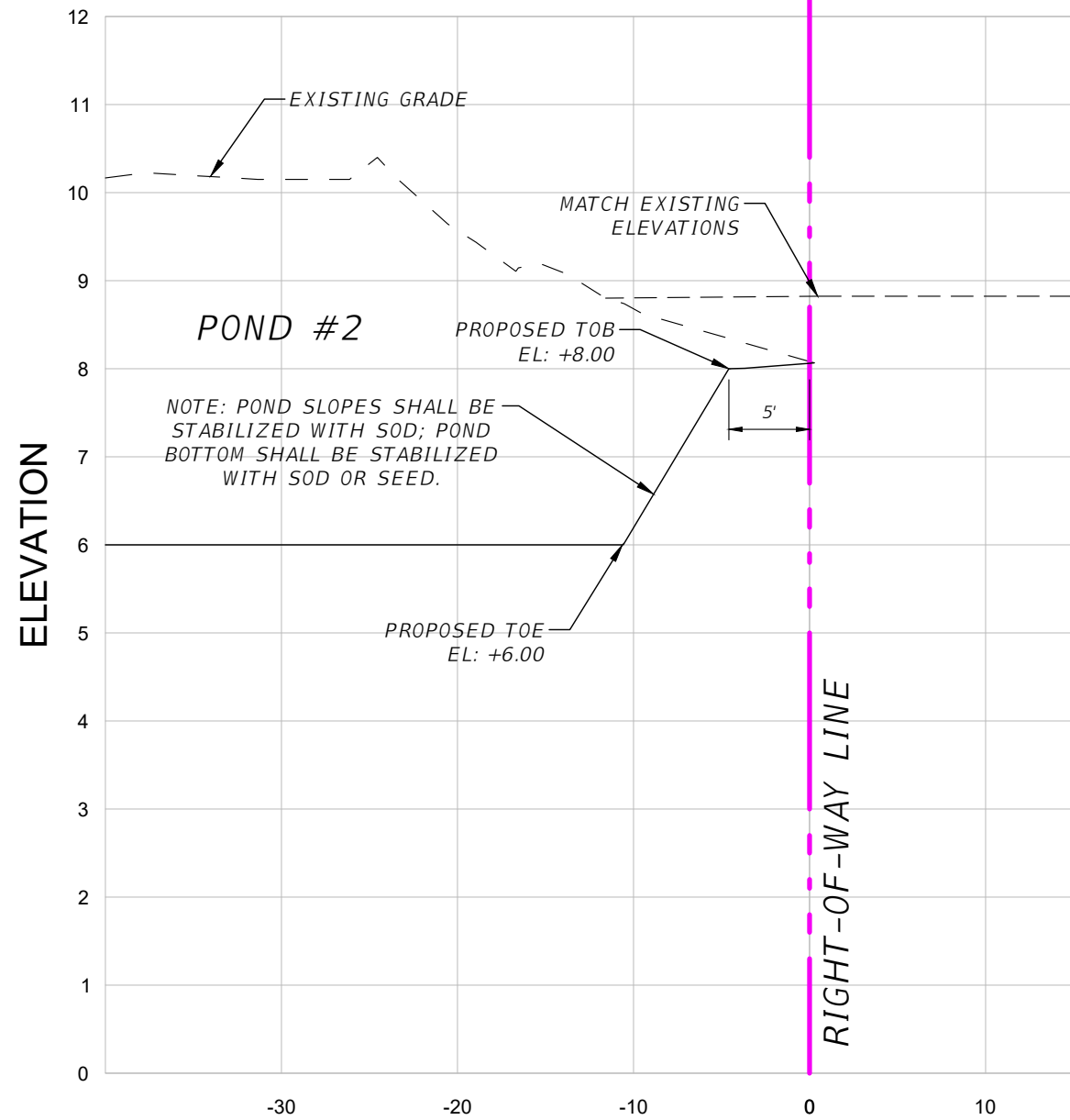
SECTION SL-4

REVISIONS				AARON STANTON, P.E. P.E. LICENSE NUMBER 72460 MBV ENGINEERING, INC. 1835 20th STREET VERO BEACH, FL 32960 CERTIFICATE OF AUTHORIZATION 3728	INDIAN RIVER COUNTY DEPARTMENT OF PUBLIC WORKS/ENGINEERING DIVISION			SHEET NO.  43
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
					11th DRIVE	INDIAN RIVER	IRC: 2001 FDOT: N/A	

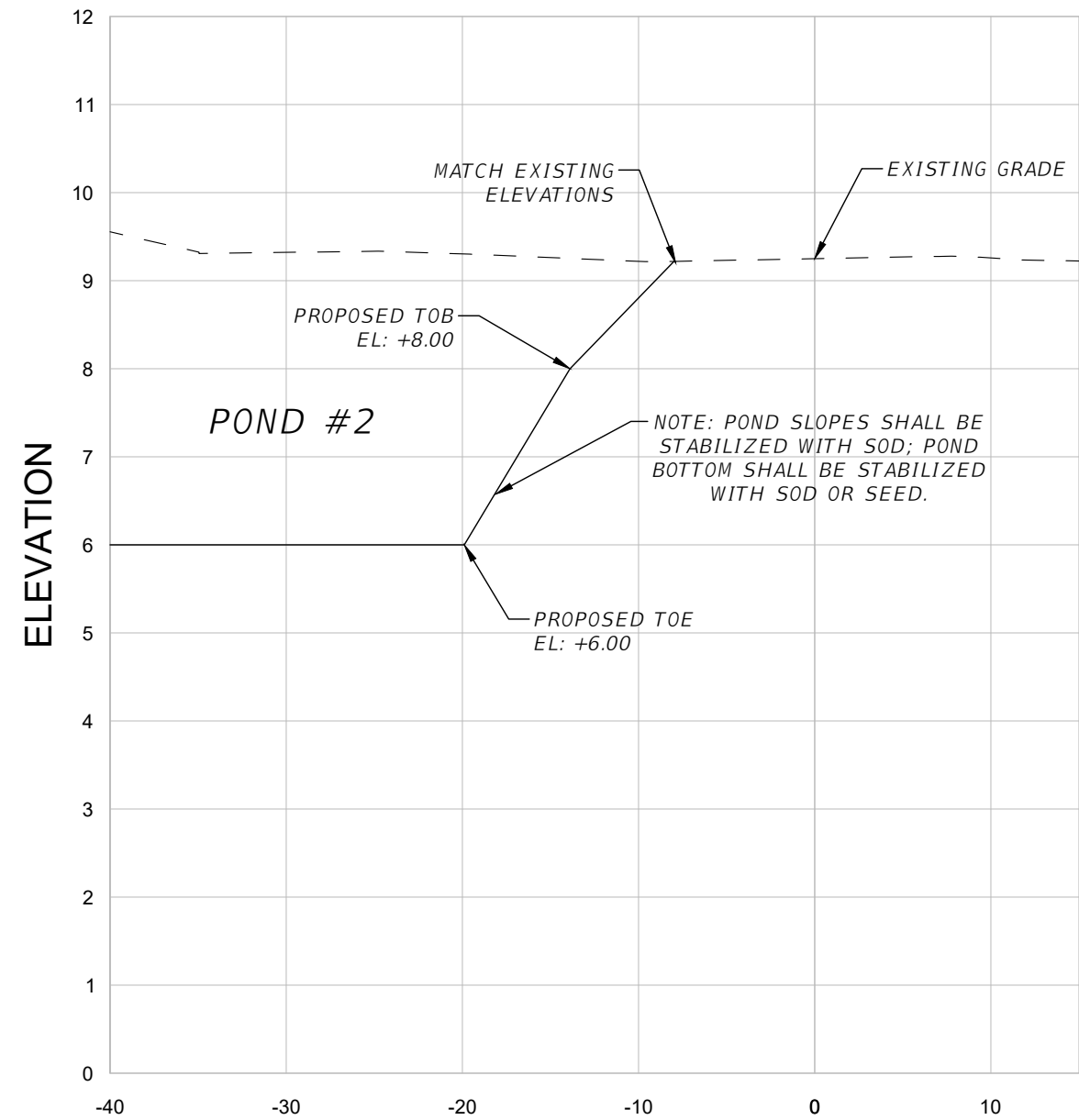
*POND GRADING DETAILS*

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PROJECT SITE      12TH COURT



SECTION SL-5



SECTION SL-6

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

AARON STANTON, P.E.  
P.E. LICENSE NUMBER 72460  
MBV ENGINEERING, INC.  
1835 20th STREET  
VERO BEACH, FL 32960  
CERTIFICATE OF AUTHORIZATION 3728

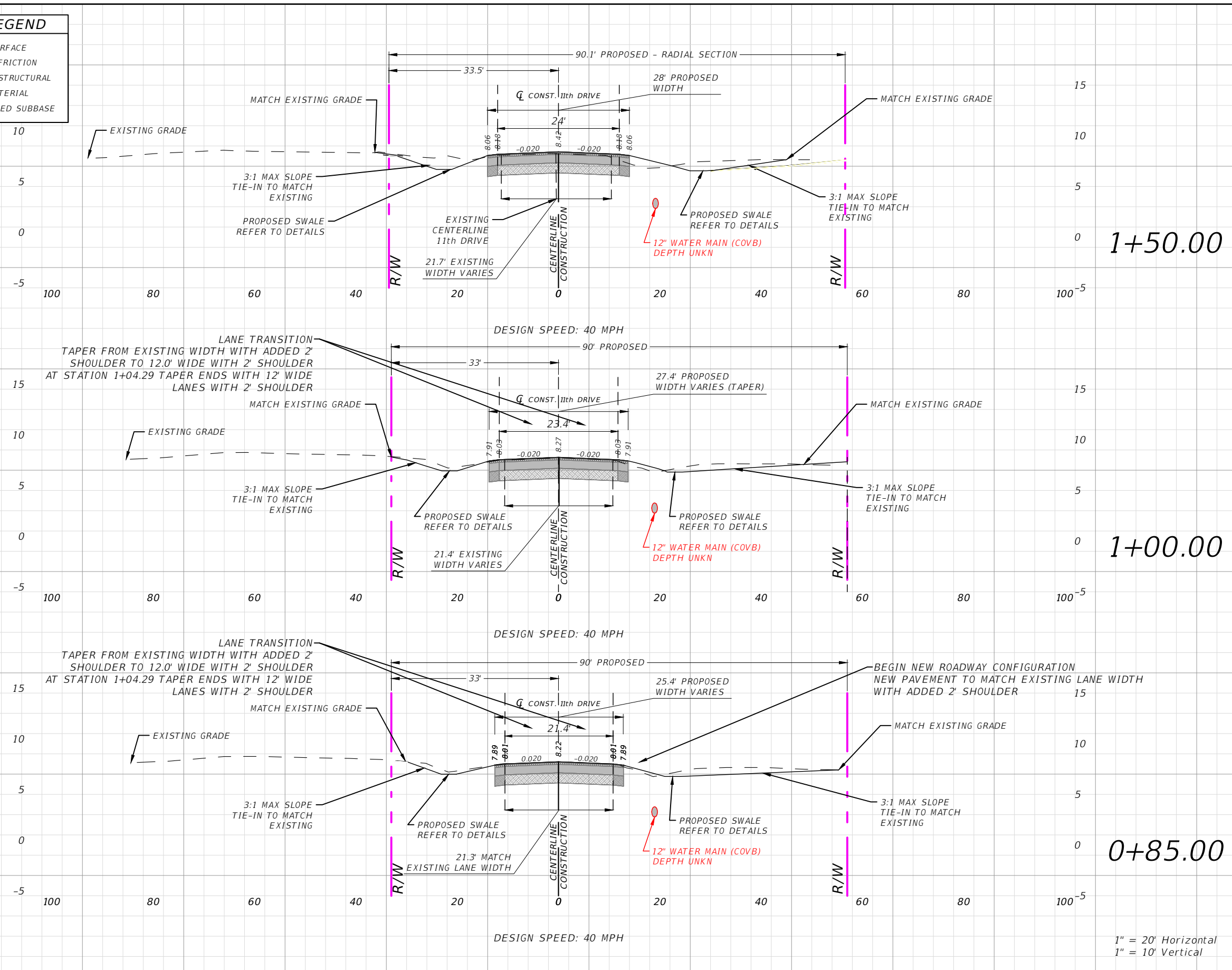
INDIAN RIVER COUNTY		
DEPARTMENT OF PUBLIC WORKS/ENGINEERING DIVISION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
11th DRIVE	INDIAN RIVER	IRC: 2001 FDOT: N/A

*POND GRADING DETAILS*

SHEET NO.  
44

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

SECTION LEGEND	
	MILL & RESURFACE
	1" ASPHALT FRICTION
	2" ASPHALT STRUCTURAL
	10" BASE MATERIAL
	12" STABILIZED SUBBASE



Regular	Exc.	Embankment	
A(sf)	V(cy)	A(sf)	V(cy)
	61	7.0	
26.3		5.45	
	43	7.5	
20.5		2.64	
	13	1.2	
24.4		1.5	

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

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
---	---	---	---

AARON STANTON, P.E.  
P.E. LICENSE NUMBER 72460  
MBV ENGINEERING, INC.  
1835 20th STREET  
VERO BEACH, FL 32960  
CERTIFICATE OF AUTHORIZATION 3728

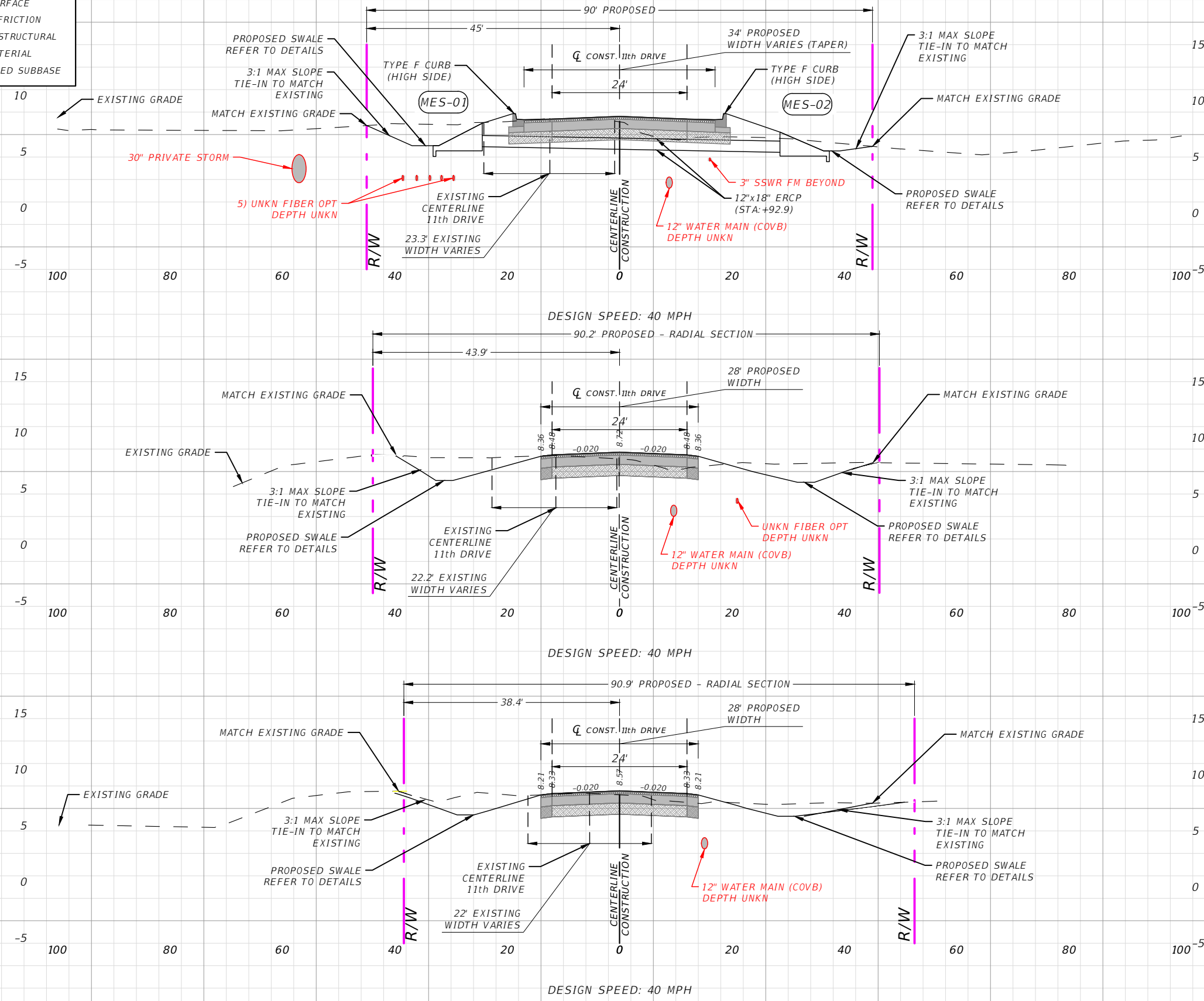
INDIAN RIVER COUNTY		
DEPARTMENT OF PUBLIC WORKS/ENGINEERING DIVISION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
11th DRIVE	INDIAN RIVER	IRC: 2001 FDOT: N/A

SECTIONS - 11TH DRIVE

SHEET NO.
45

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

SECTION LEGEND	
	MILL & RESURFACE
	1" ASPHALT FRICTION
	2" ASPHALT STRUCTURAL
	10" BASE MATERIAL
	12" STABILIZED SUBBASE



2+85.00

2+50.00

2+00.00

Regular	Exc.	Embankment	
A(sf)	V(cy)	A(sf)	V(cy)
	18		7.6
32.3		0.00	
	56		1.0
54.0		3.56	
	87		5.2
39.4		2.10	

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

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

AARON STANTON, P.E.  
P.E. LICENSE NUMBER 72460  
MBV ENGINEERING, INC.  
1835 20th STREET  
VERO BEACH, FL 32960  
CERTIFICATE OF AUTHORIZATION 3728

INDIAN RIVER COUNTY		
DEPARTMENT OF PUBLIC WORKS/ENGINEERING DIVISION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
11th DRIVE	INDIAN RIVER	IRC: 2001 FDOT: N/A

SECTIONS - 11TH DRIVE

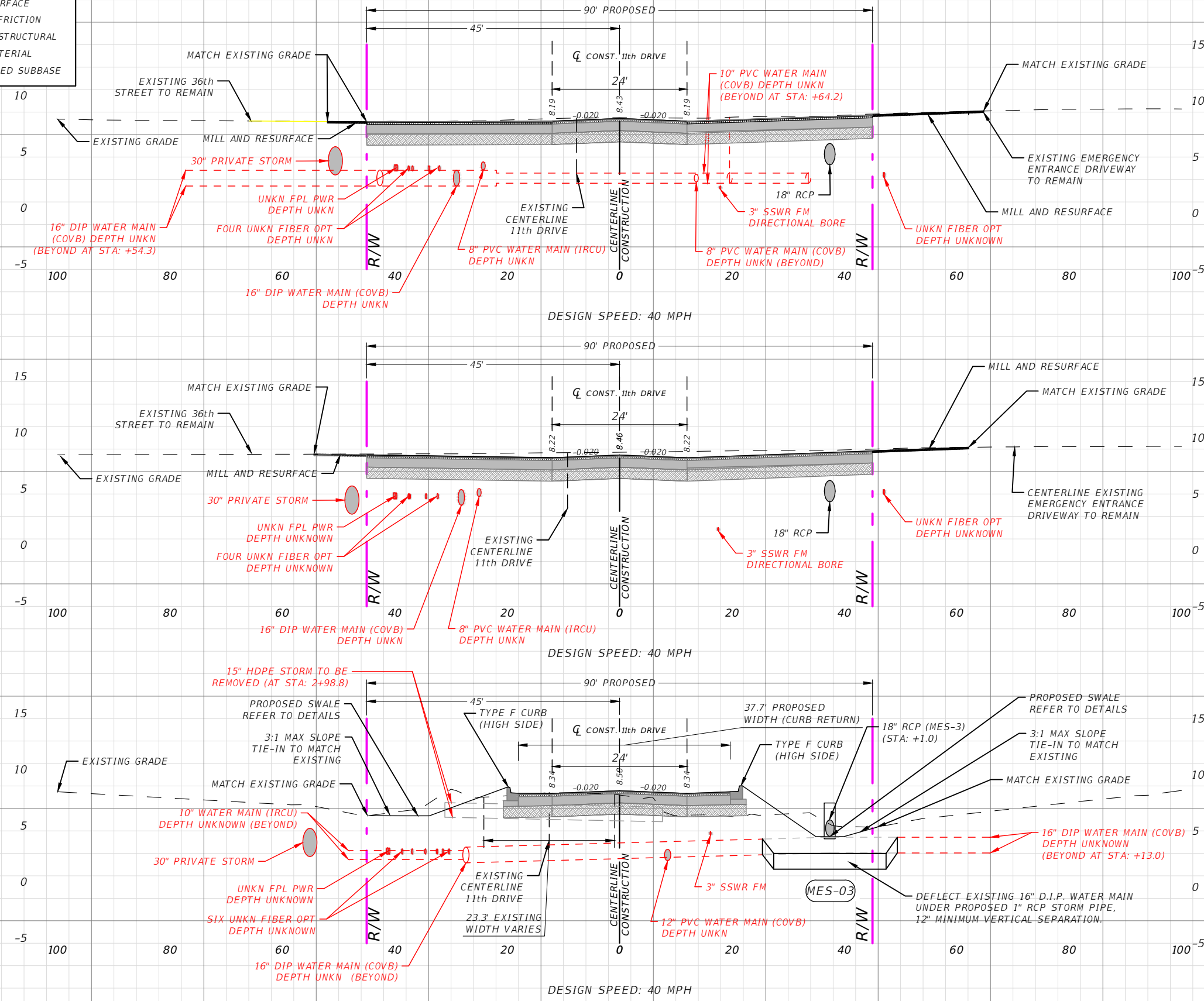
SHEET NO.  
46

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

**SECTION LEGEND**

	MILL & RESURFACE
	1" ASPHALT FRICTION
	2" ASPHALT STRUCTURAL
	10" BASE MATERIAL
	12" STABILIZED SUBBASE

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



3+50.00

3+39.08

3+00.00

15			
10			
5			
0	0.00	0.00	16
-5			
100			
80			
60			
40			
20			
0			
20			
40			
60			
80			
100			
15			
10			
5			
0	0.00	0.00	0.0
-5			
100			
80			
60			
40			
20			
0			
20			
40			
60			
80			
100			
15			
10			
5			
0	32.8	27.2	24
-5			
100			
80			
60			
40			
20			
0			
20			
40			
60			
80			
100			

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

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

AARON STANTON, P.E.  
P.E. LICENSE NUMBER 72460  
MBV ENGINEERING, INC.  
1835 20th STREET  
VERO BEACH, FL 32960  
CERTIFICATE OF AUTHORIZATION 3728

INDIAN RIVER COUNTY		
DEPARTMENT OF PUBLIC WORKS/ENGINEERING DIVISION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
11th DRIVE	INDIAN RIVER	IRC: 2001 FDOT: N/A

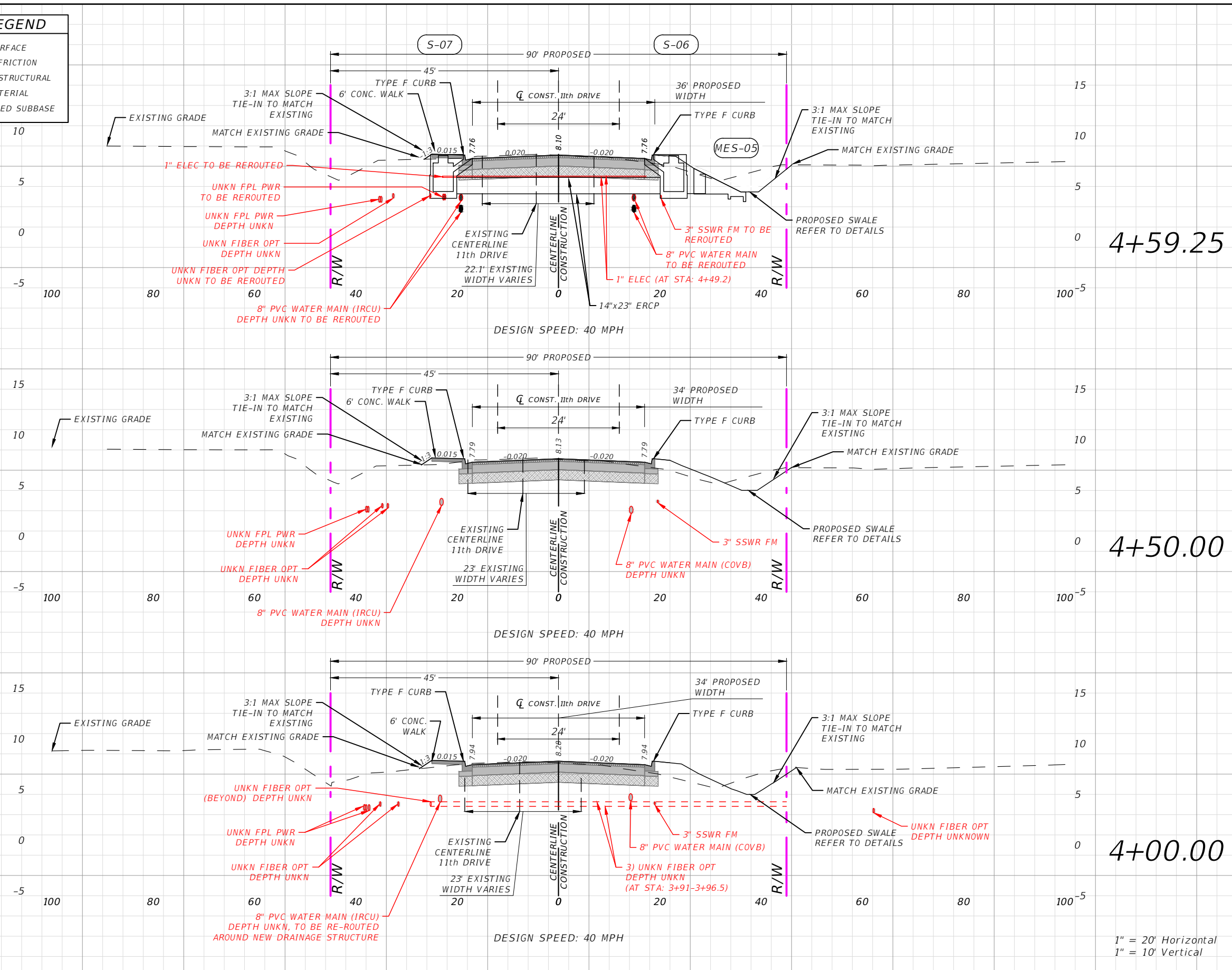
**SECTIONS - 11TH DRIVE**

SHEET NO.  
47

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



SECTION LEGEND	
	MILL & RESURFACE
	1" ASPHALT FRICTION
	2" ASPHALT STRUCTURAL
	10" BASE MATERIAL
	12" STABILIZED SUBBASE



Regular	Exc.	Embankment
A(sf)	V(cy)	A(sf) V(cy)
	44	18
34.2		8.0
	10	3.4
26.2		11.8
	48	26
25.8		16.8

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

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
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AARON STANTON, P.E.  
P.E. LICENSE NUMBER 72460  
MBV ENGINEERING, INC.  
1835 20th STREET  
VERO BEACH, FL 32960  
CERTIFICATE OF AUTHORIZATION 3728

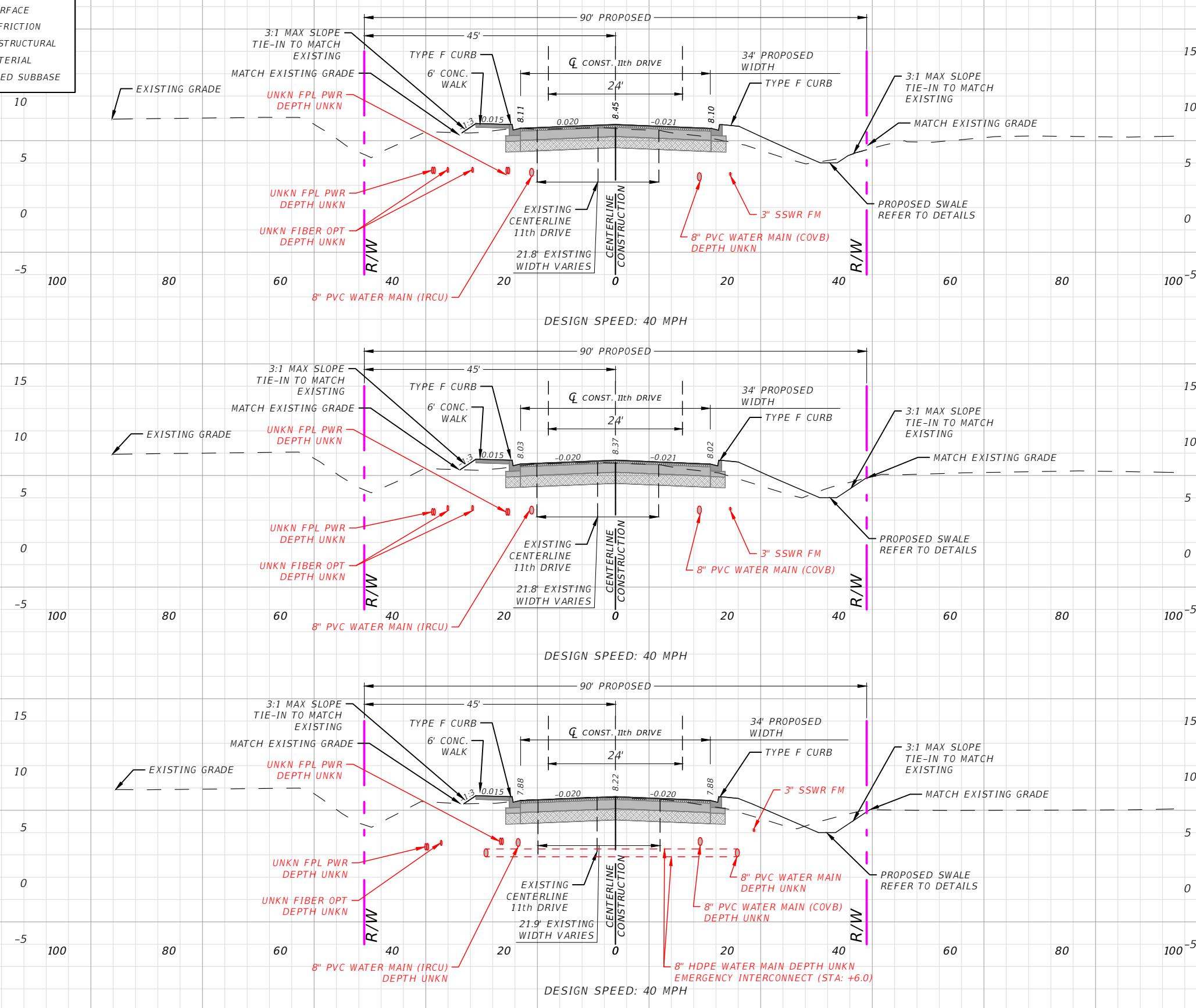
INDIAN RIVER COUNTY		
DEPARTMENT OF PUBLIC WORKS/ENGINEERING DIVISION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
11th DRIVE	INDIAN RIVER	IRC: 2001 FDOT: N/A

SECTIONS - 11TH DRIVE

SHEET NO.
48

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

SECTION LEGEND	
	MILL & RESURFACE
	1" ASPHALT FRICTION
	2" ASPHALT STRUCTURAL
	10" BASE MATERIAL
	12" STABILIZED SUBBASE



5+75.00

5+50.00

5+00.00

Regular	Exc.	Embankment	
A(sf)	V(cy)	A(sf)	V(cy)
	0.0		0.0
11.2		21.2	
	13		20
17.0		21.9	
	38		34
24.0		15.2	

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

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

AARON STANTON, P.E.  
P.E. LICENSE NUMBER 72460  
MBV ENGINEERING, INC.  
1835 20th STREET  
VERO BEACH, FL 32960  
CERTIFICATE OF AUTHORIZATION 3728

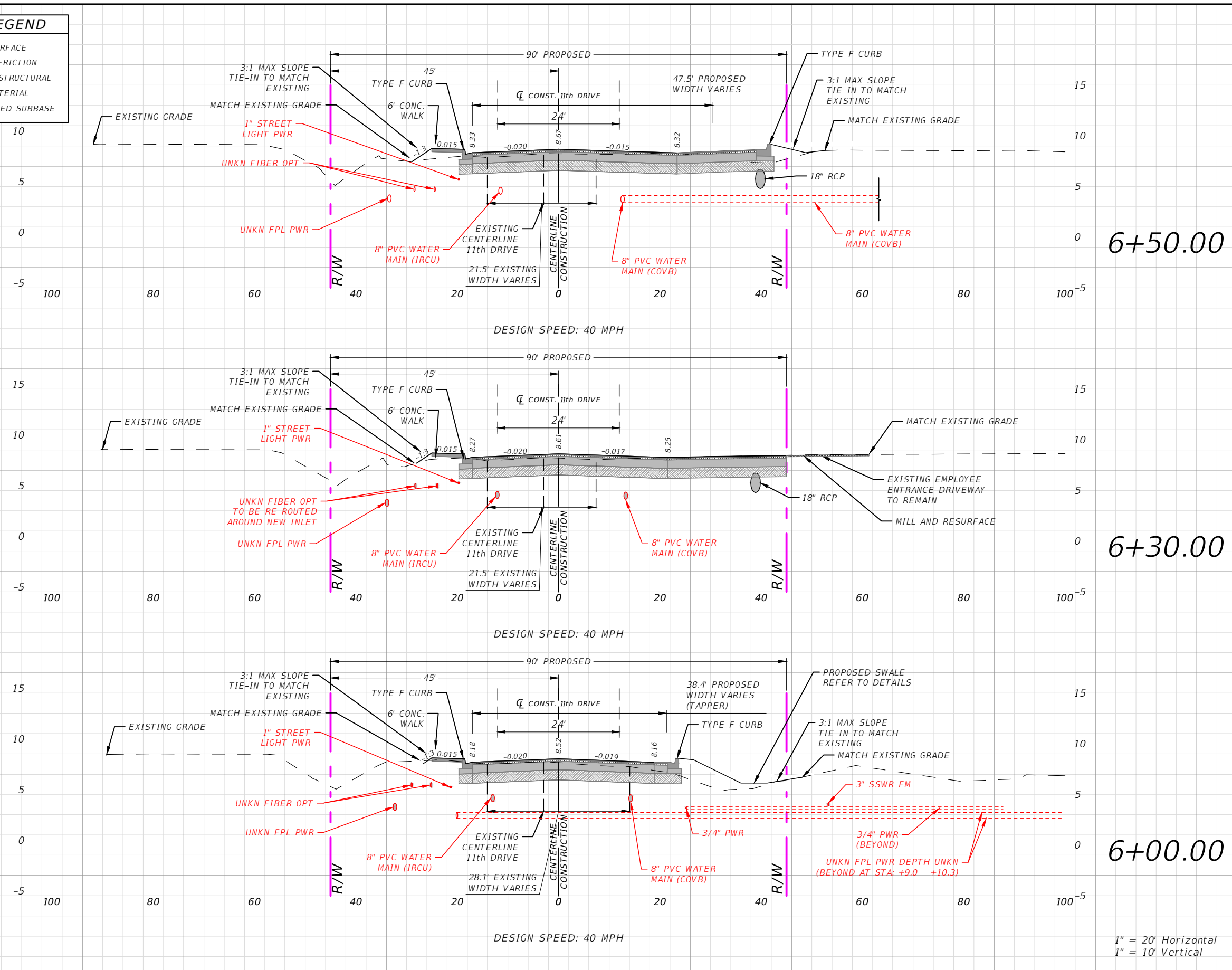
INDIAN RIVER COUNTY		
DEPARTMENT OF PUBLIC WORKS/ENGINEERING DIVISION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
11th DRIVE	INDIAN RIVER	IRC: 2001 FDOT: N/A

SECTIONS - 11TH DRIVE

SHEET NO.  
49

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

SECTION LEGEND	
	MILL & RESURFACE
	1" ASPHALT FRICTION
	2" ASPHALT STRUCTURAL
	10" BASE MATERIAL
	12" STABILIZED SUBBASE



Station	Regular A(sf)	Exc. V(cy)	Embankment A(sf)	Embankment V(cy)
6+50.00	3.76	16	18.4	16
6+30.00	4.59	3.1	2.00	7.6
6+00.00	8.75	7.4	23.0	14

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

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
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AARON STANTON, P.E.  
P.E. LICENSE NUMBER 72460  
MBV ENGINEERING, INC.  
1835 20th STREET  
VERO BEACH, FL 32960  
CERTIFICATE OF AUTHORIZATION 3728

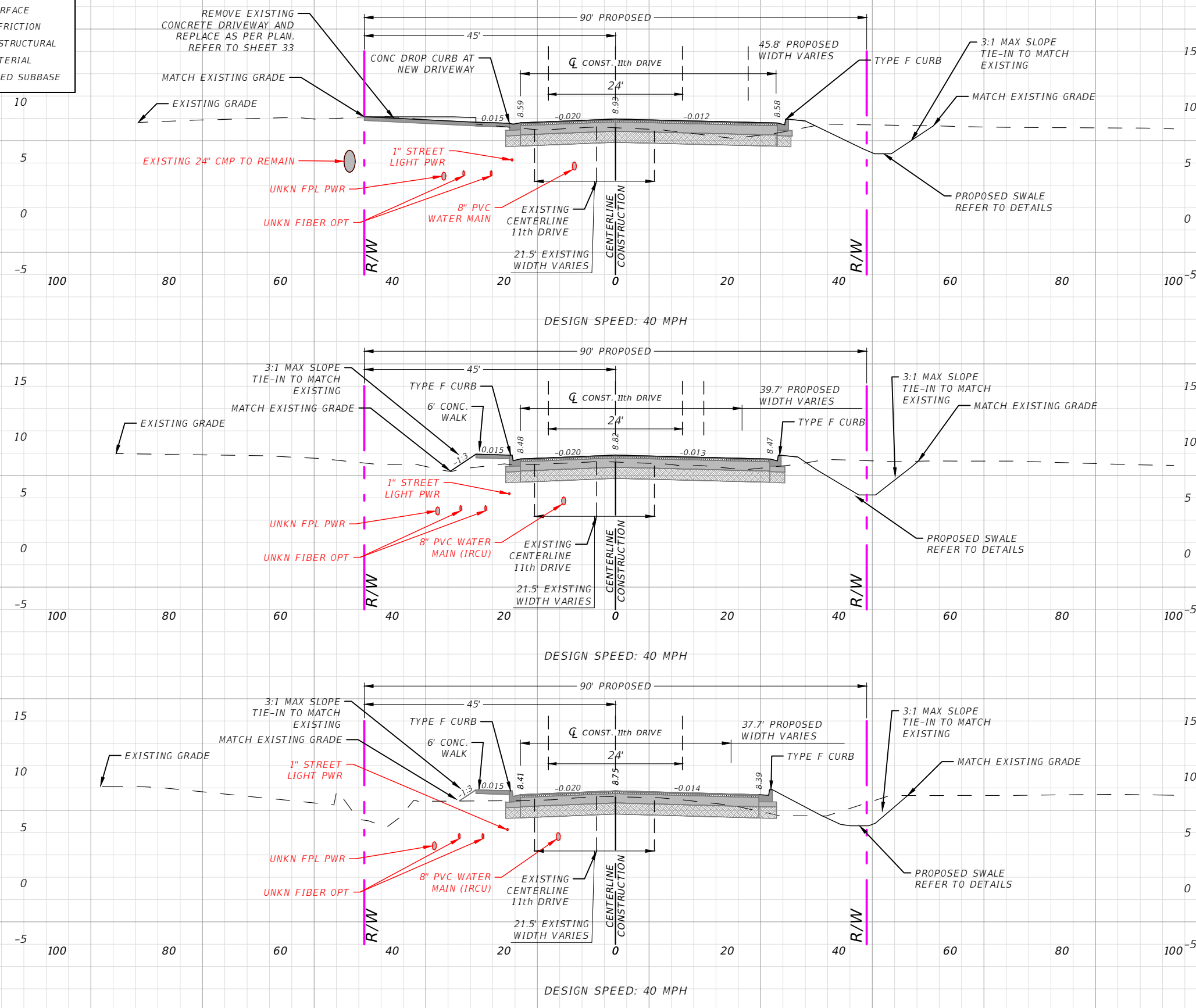
INDIAN RIVER COUNTY		
DEPARTMENT OF PUBLIC WORKS/ENGINEERING DIVISION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
11th DRIVE	INDIAN RIVER	IRC: 2001 FDOT: N/A

SECTIONS - 11TH DRIVE

SHEET NO.
50

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

SECTION LEGEND	
	MILL & RESURFACE
	1" ASPHALT FRICTION
	2" ASPHALT STRUCTURAL
	10" BASE MATERIAL
	12" STABILIZED SUBBASE



Regular	Exc.	Embankment	
A(sf)	V(cy)	A(sf)	V(cy)
	45		33
36.9		5.80	
	83		16
53.0		11.6	
	39		13
31.0		16.5	

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

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
---	---	---	---

AARON STANTON, P.E.  
P.E. LICENSE NUMBER 72460  
MBV ENGINEERING, INC.  
1835 20th STREET  
VERO BEACH, FL 32960  
CERTIFICATE OF AUTHORIZATION 3728

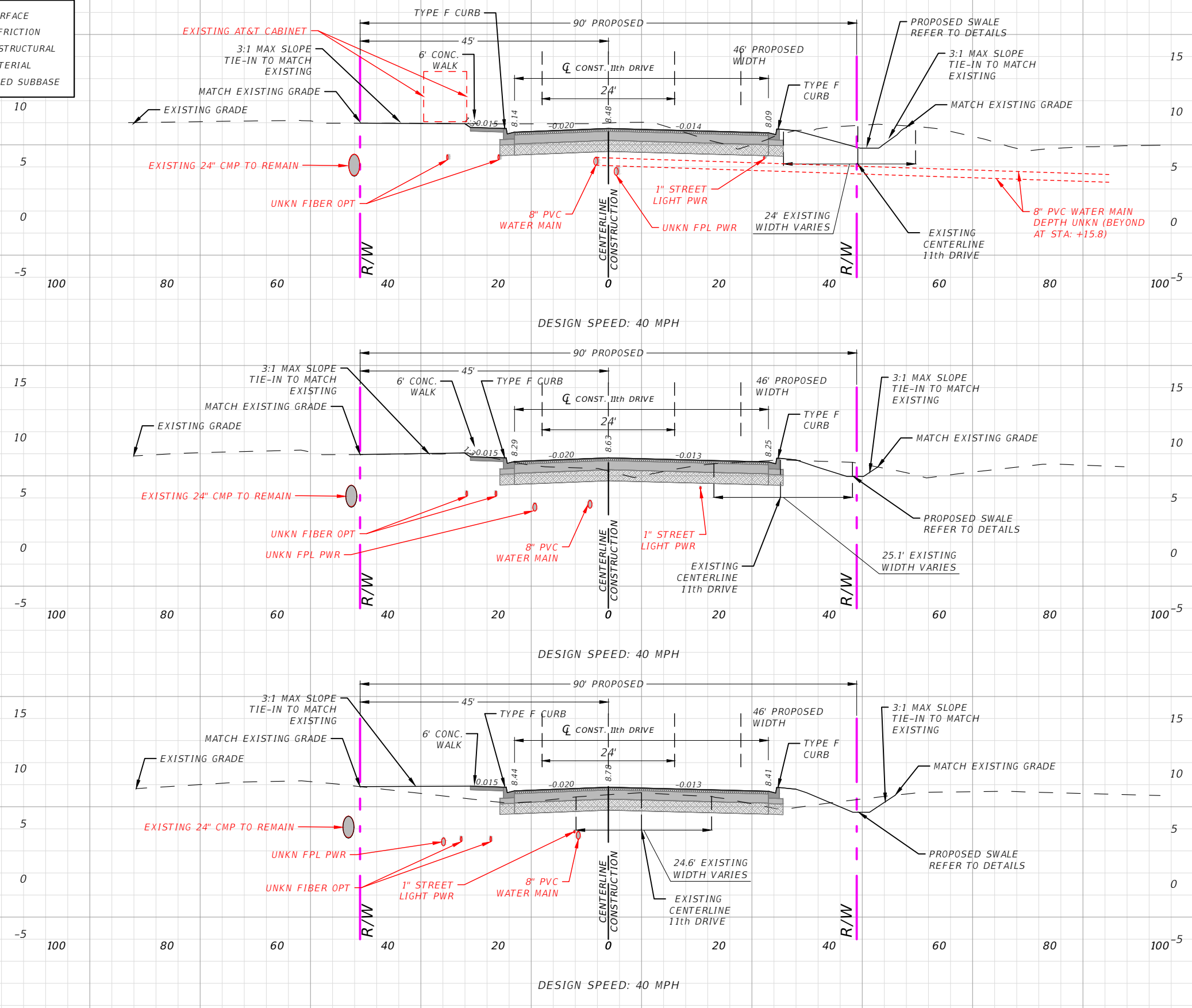
INDIAN RIVER COUNTY		
DEPARTMENT OF PUBLIC WORKS/ENGINEERING DIVISION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
11th DRIVE	INDIAN RIVER	IRC: 2001 FDOT: N/A

SECTIONS - 11TH DRIVE

SHEET NO.  
51

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

SECTION LEGEND	
	MILL & RESURFACE
	1" ASPHALT FRICTION
	2" ASPHALT STRUCTURAL
	10" BASE MATERIAL
	12" STABILIZED SUBBASE



Regular	Exc.	Embankment	
A(sf)	V(cy)	A(sf)	V(cy)
	70		1.4
89.0		1.94	
	116		5.3
36.2		3.80	
	45		31
12.0		29.3	

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

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
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AARON STANTON, P.E.  
P.E. LICENSE NUMBER 72460  
MBV ENGINEERING, INC.  
1835 20th STREET  
VERO BEACH, FL 32960  
CERTIFICATE OF AUTHORIZATION 3728

INDIAN RIVER COUNTY		
DEPARTMENT OF PUBLIC WORKS/ENGINEERING DIVISION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
11th DRIVE	INDIAN RIVER	IRC: 2001 FDOT: N/A

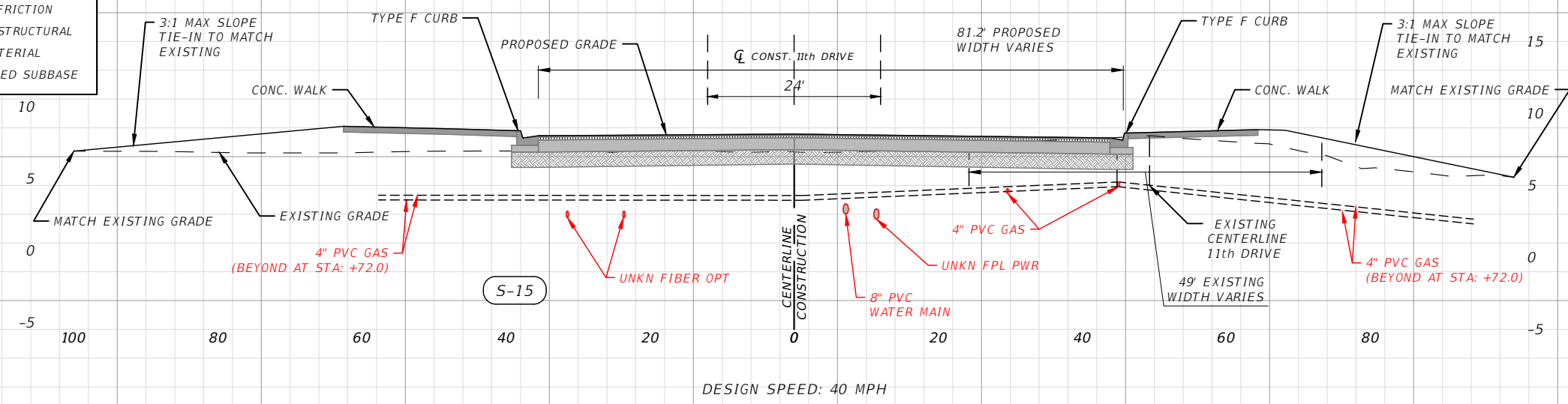
SECTIONS - 11TH DRIVE

SHEET NO.
52

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

SECTION LEGEND	
	MILL & RESURFACE
	1" ASPHALT FRICTION
	2" ASPHALT STRUCTURAL
	10" BASE MATERIAL
	12" STABILIZED SUBBASE

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



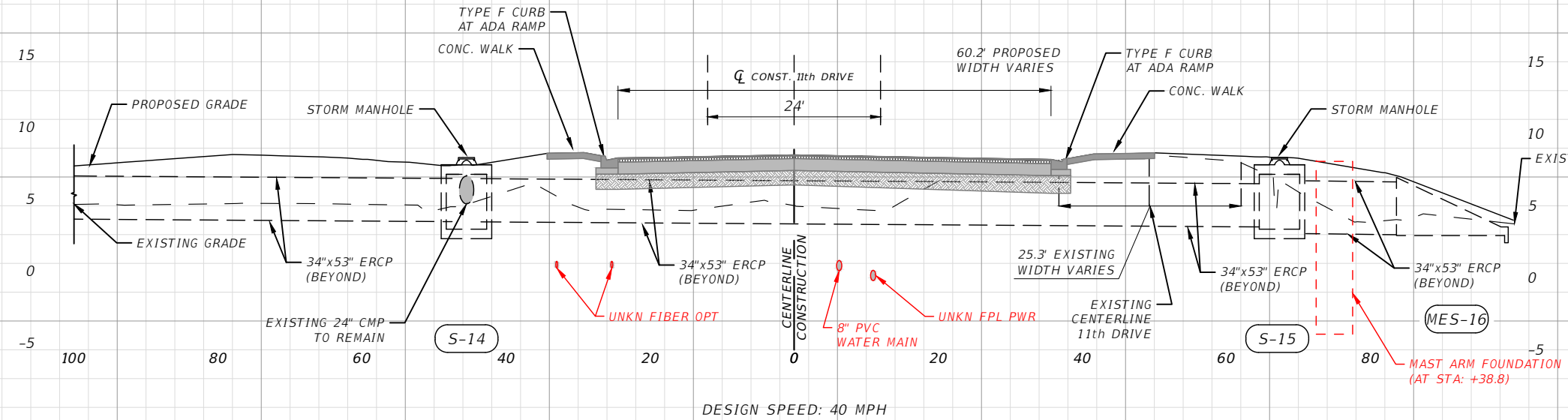
9+62.58

24.2

17

71

102



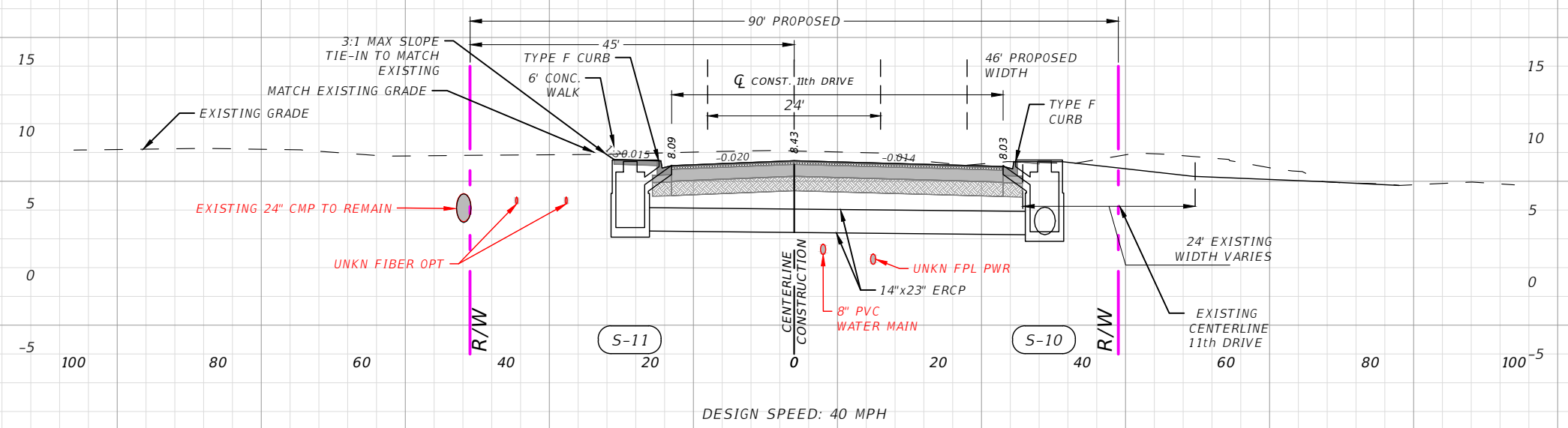
9+50.00

16.0

9.4

119

408



9+17.83

124

83

244

2.15

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

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
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AARON STANTON, P.E.  
P.E. LICENSE NUMBER 72460  
MBV ENGINEERING, INC.  
1835 20th STREET  
VERO BEACH, FL 32960  
CERTIFICATE OF AUTHORIZATION 3728

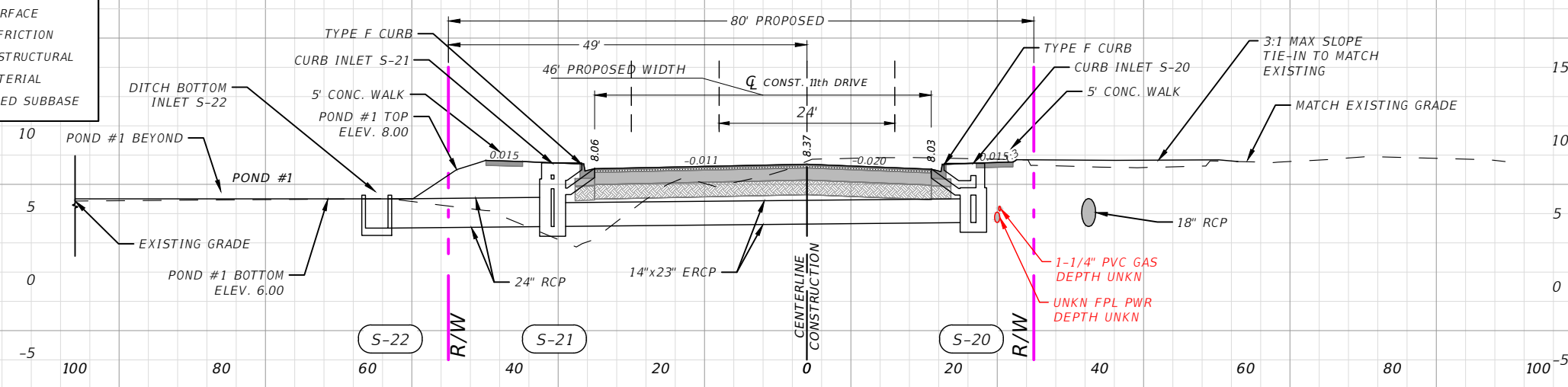
INDIAN RIVER COUNTY		
DEPARTMENT OF PUBLIC WORKS/ENGINEERING DIVISION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
11th DRIVE	INDIAN RIVER	IRC: 2001 FDOT: N/A

SECTIONS - 11TH DRIVE

SHEET NO.
53

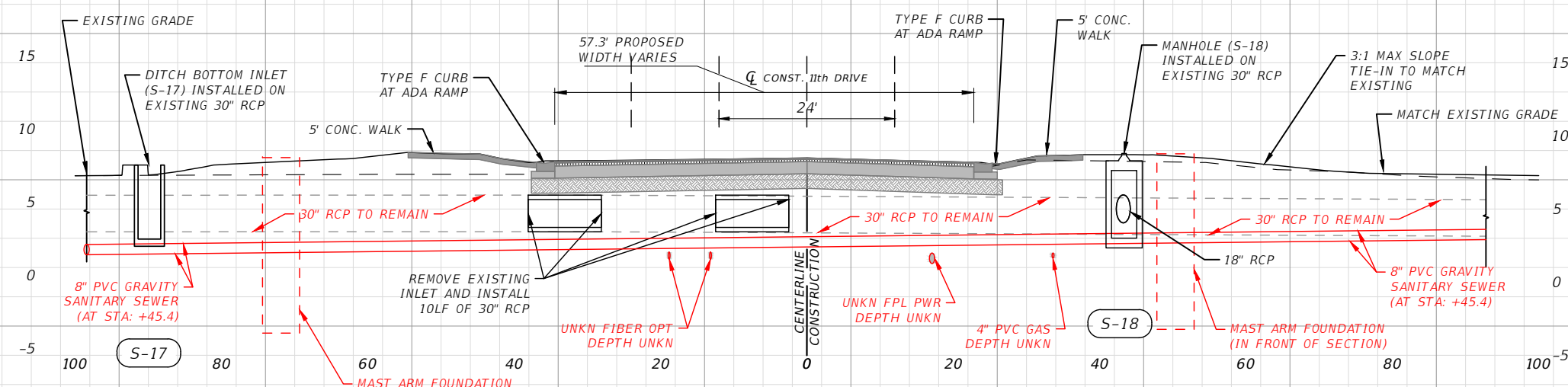
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

SECTION LEGEND	
	MILL & RESURFACE
	1" ASPHALT FRICTION
	2" ASPHALT STRUCTURAL
	10" BASE MATERIAL
	12" STABILIZED SUBBASE



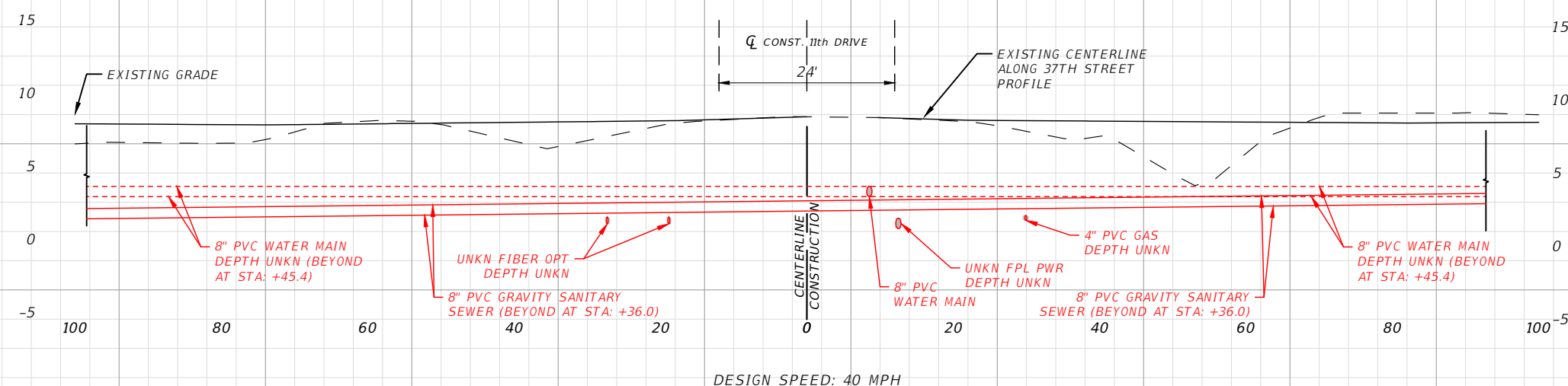
10+77.97

Regular	Exc.	Embankment
A(sf)	V(cy)	A(sf) V(cy)
	35	48
37.9		99



10+50.00

	41	74
41.2		42.7



10+00.00

	38	40
0.00		0.00

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

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
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AARON STANTON, P.E.  
P.E. LICENSE NUMBER 72460  
MBV ENGINEERING, INC.  
1835 20th STREET  
VERO BEACH, FL 32960  
CERTIFICATE OF AUTHORIZATION 3728

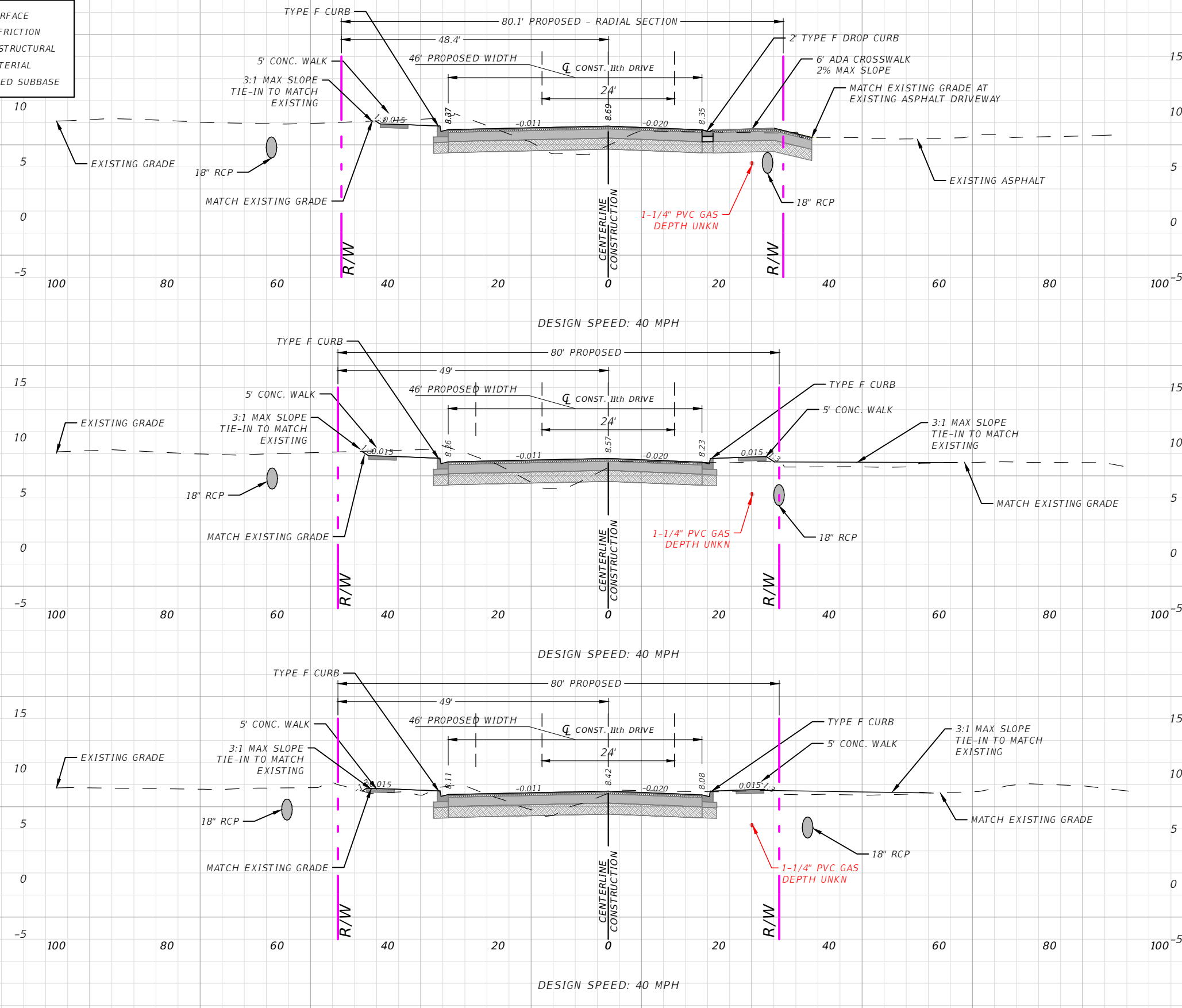
INDIAN RIVER COUNTY		
DEPARTMENT OF PUBLIC WORKS/ENGINEERING DIVISION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
11th DRIVE	INDIAN RIVER	IRC: 2001 FDOT: N/A

SECTIONS - 11TH DRIVE

SHEET NO.
54

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

SECTION LEGEND	
	MILL & RESURFACE
	1" ASPHALT FRICTION
	2" ASPHALT STRUCTURAL
	10" BASE MATERIAL
	12" STABILIZED SUBBASE



11+89.60

11+50.00

11+00.00

Regular	Exc.	Embankment	
A(sf)	V(cy)	A(sf)	V(cy)
	23		6.1
58		16.3	
	89		34
63.5		30.2	
	104		40
48.7		13.5	

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

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
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AARON STANTON, P.E.  
P.E. LICENSE NUMBER 72460  
MBV ENGINEERING, INC.  
1835 20th STREET  
VERO BEACH, FL 32960  
CERTIFICATE OF AUTHORIZATION 3728

INDIAN RIVER COUNTY		
DEPARTMENT OF PUBLIC WORKS/ENGINEERING DIVISION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
11th DRIVE	INDIAN RIVER	IRC: 2001 FDOT: N/A

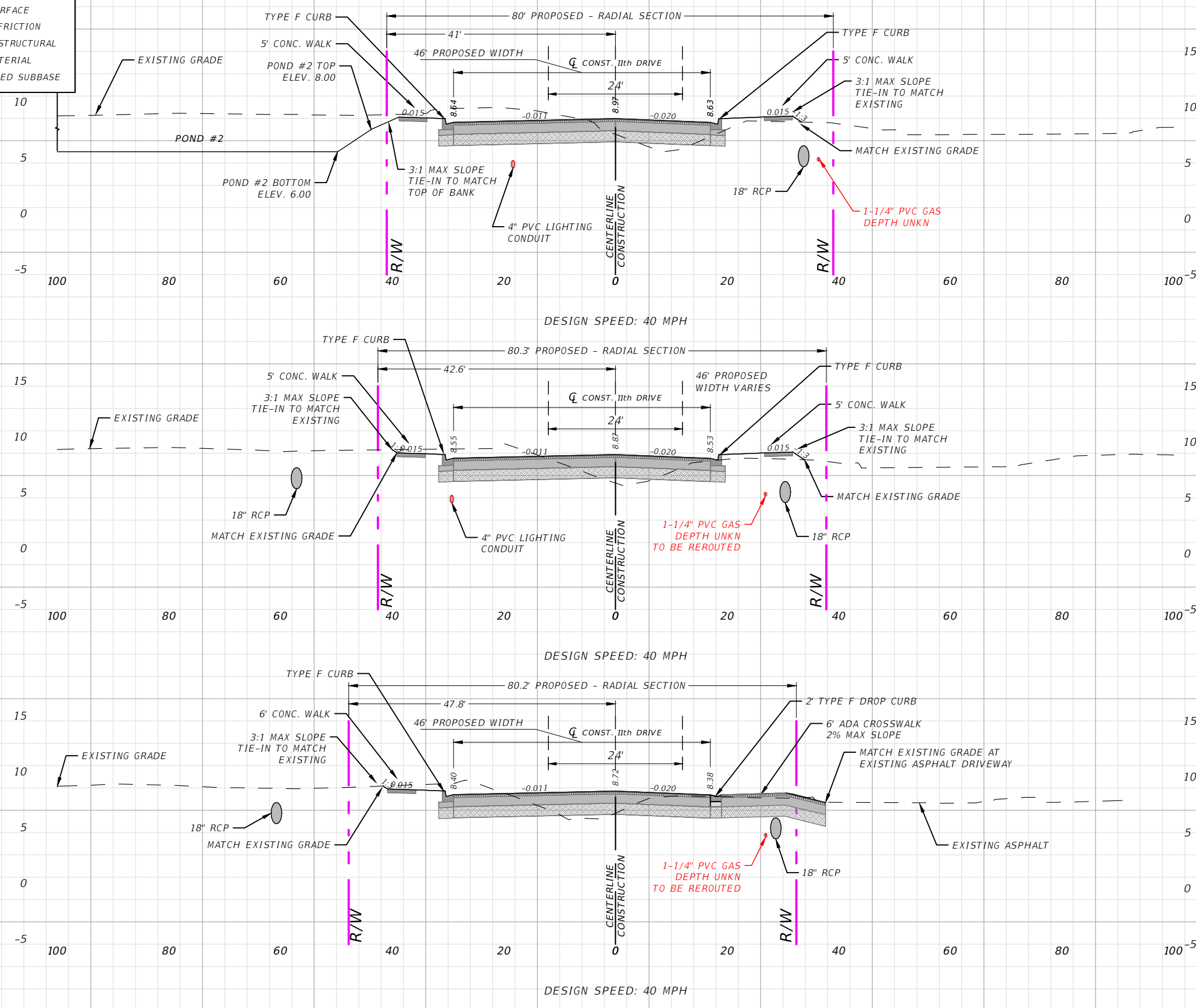
SECTIONS - 11TH DRIVE

SHEET NO.  
55

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



SECTION LEGEND	
	MILL & RESURFACE
	1" ASPHALT FRICTION
	2" ASPHALT STRUCTURAL
	10" BASE MATERIAL
	12" STABILIZED SUBBASE



12+83.24

12+50.00

12+00.00

Regular	Exc.	Embankment	
A(sf)	V(cy)	A(sf)	V(cy)
	0.0		0.0
34.8		21.1	
	44		26
	90		33
59.0		15.6	

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

REVISIONS

DATE	DESCRIPTION	DATE	DESCRIPTION
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AARON STANTON, P.E.  
P.E. LICENSE NUMBER 72460  
MBV ENGINEERING, INC.  
1835 20th STREET  
VERO BEACH, FL 32960  
CERTIFICATE OF AUTHORIZATION 3728

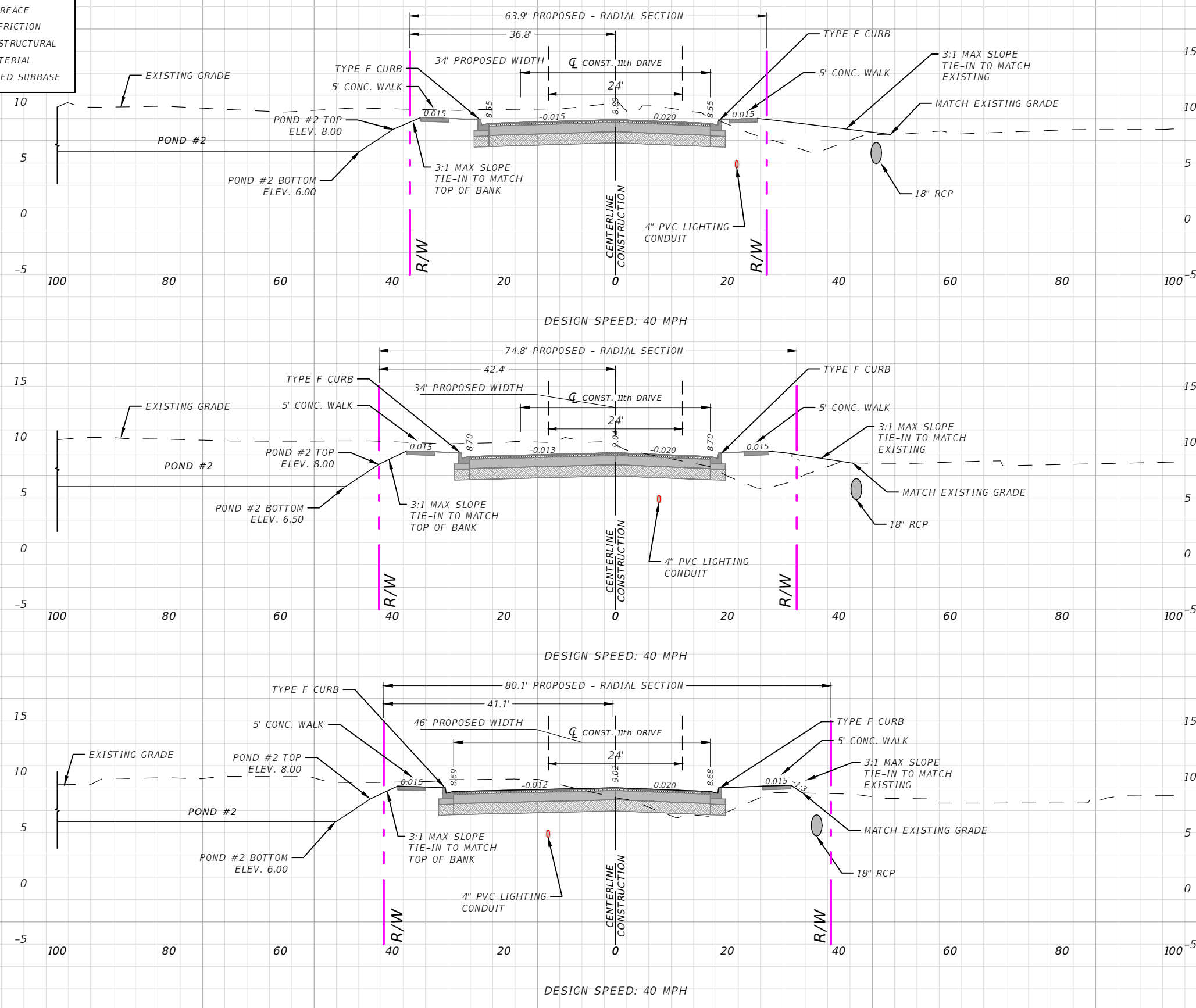
INDIAN RIVER COUNTY		
DEPARTMENT OF PUBLIC WORKS/ENGINEERING DIVISION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
11th DRIVE	INDIAN RIVER	IRC: 2001 FDOT: N/A

SECTIONS - 11TH DRIVE

SHEET NO.  
56

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

SECTION LEGEND	
	MILL & RESURFACE
	1" ASPHALT FRICTION
	2" ASPHALT STRUCTURAL
	10" BASE MATERIAL
	12" STABILIZED SUBBASE



Regular	Exc.	Embankment	
A(sf)	V(cy)	A(sf)	V(cy)
	0.0		0.0
105		39.3	
	170		78
79.0		44.7	
	113		66
42.8		27.0	

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

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
---	---	---	---

AARON STANTON, P.E.  
P.E. LICENSE NUMBER 72460  
MBV ENGINEERING, INC.  
1835 20th STREET  
VERO BEACH, FL 32960  
CERTIFICATE OF AUTHORIZATION 3728

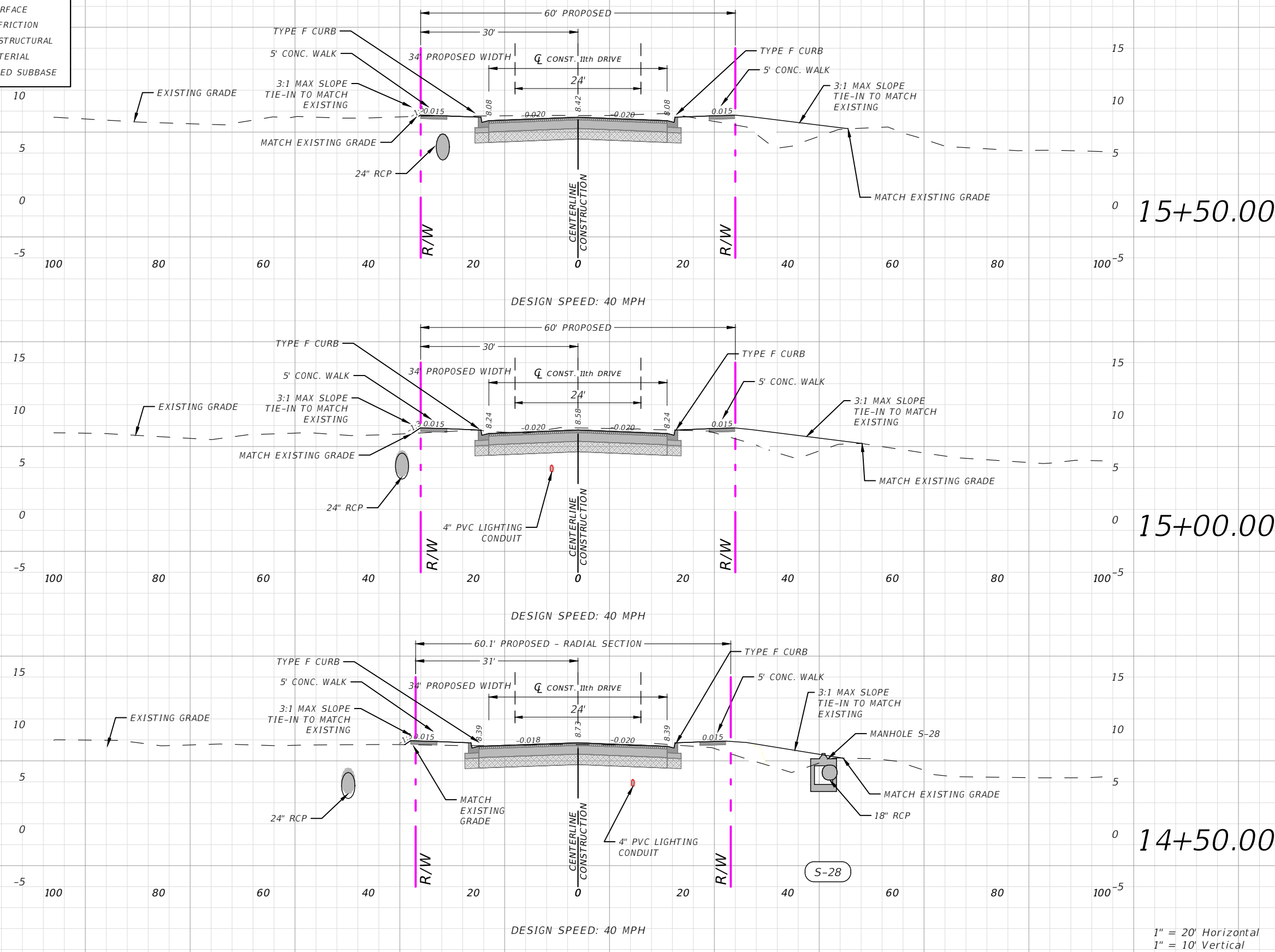
INDIAN RIVER COUNTY		
DEPARTMENT OF PUBLIC WORKS/ENGINEERING DIVISION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
11th DRIVE	INDIAN RIVER	IRC: 2001 FDOT: N/A

SECTIONS - 11TH DRIVE

SHEET NO.
57

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

SECTION LEGEND	
	MILL & RESURFACE
	1" ASPHALT FRICTION
	2" ASPHALT STRUCTURAL
	10" BASE MATERIAL
	12" STABILIZED SUBBASE



Station	Regular A(sf)	Exc. V(cy)	Embankment A(sf)	Embankment V(cy)
15+50.00	60	40	34.4	25
15+00.00	51	103	34.4	64
14+50.00	40.8	85	35.9	65

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

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
---	---	---	---

AARON STANTON, P.E.  
P.E. LICENSE NUMBER 72460  
MBV ENGINEERING, INC.  
1835 20th STREET  
VERO BEACH, FL 32960  
CERTIFICATE OF AUTHORIZATION 3728

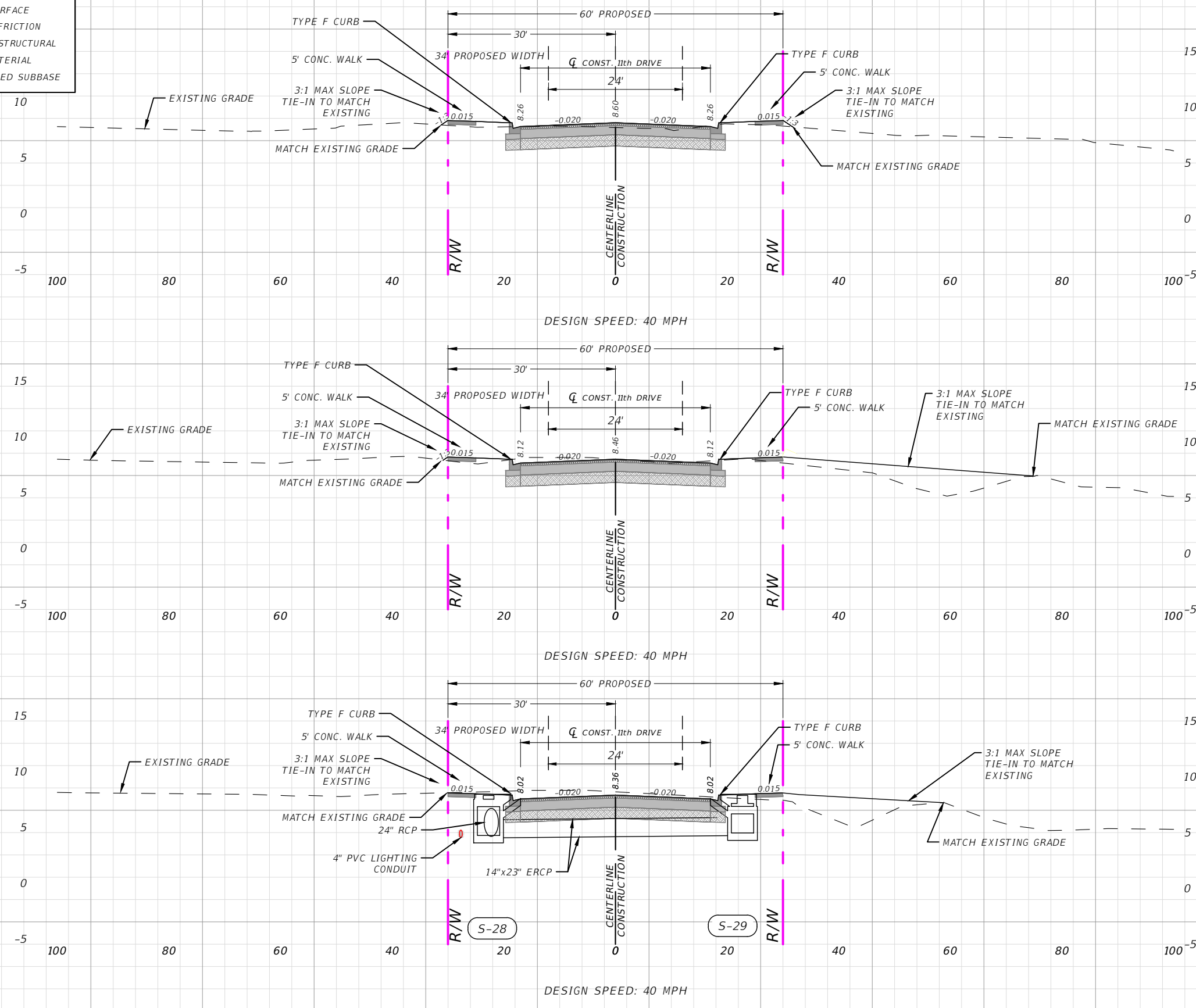
INDIAN RIVER COUNTY		
DEPARTMENT OF PUBLIC WORKS/ENGINEERING DIVISION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
11th DRIVE	INDIAN RIVER	IRC: 2001 FDOT: N/A

SECTIONS - 11TH DRIVE

SHEET NO.
58

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

SECTION LEGEND	
	MILL & RESURFACE
	1" ASPHALT FRICTION
	2" ASPHALT STRUCTURAL
	10" BASE MATERIAL
	12" STABILIZED SUBBASE



16+50.00

16+00.00

15+69.53

Regular	Exc.	Embankment	
A(sf)	V(cy)	A(sf)	V(cy)
	54		25
33.0		6.25	
	74		57
46.5		55.5	
	64		56
61.5		39.7	

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

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
---	---	---	---

AARON STANTON, P.E.  
P.E. LICENSE NUMBER 72460  
MBV ENGINEERING, INC.  
1835 20th STREET  
VERO BEACH, FL 32960  
CERTIFICATE OF AUTHORIZATION 3728

INDIAN RIVER COUNTY		
DEPARTMENT OF PUBLIC WORKS/ENGINEERING DIVISION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
11th DRIVE	INDIAN RIVER	IRC: 2001 FDOT: N/A

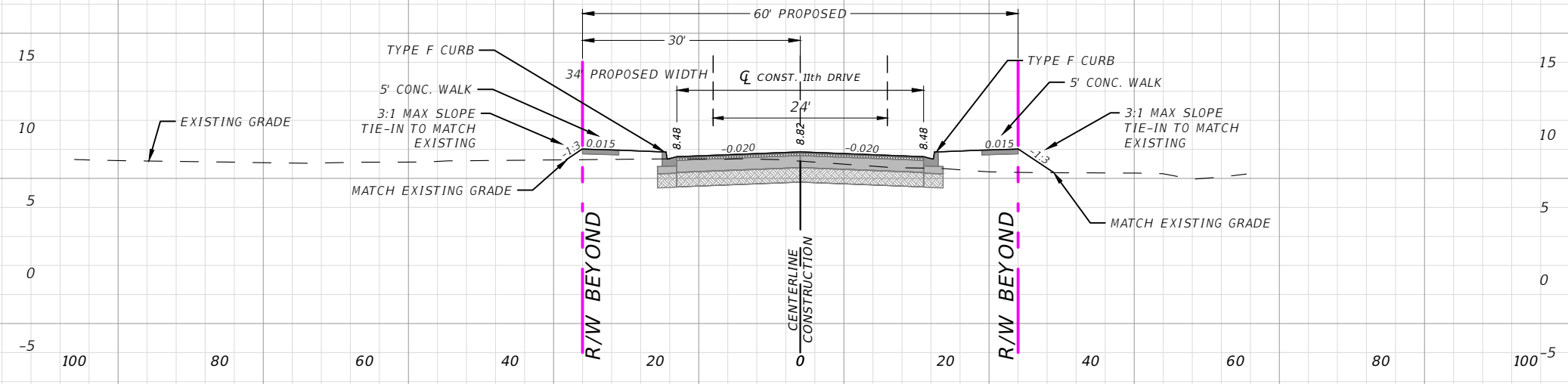
SECTIONS - 11TH DRIVE

SHEET NO.  
59

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

SECTION LEGEND	
	MILL & RESURFACE
	1" ASPHALT FRICTION
	2" ASPHALT STRUCTURAL
	10" BASE MATERIAL
	12" STABILIZED SUBBASE

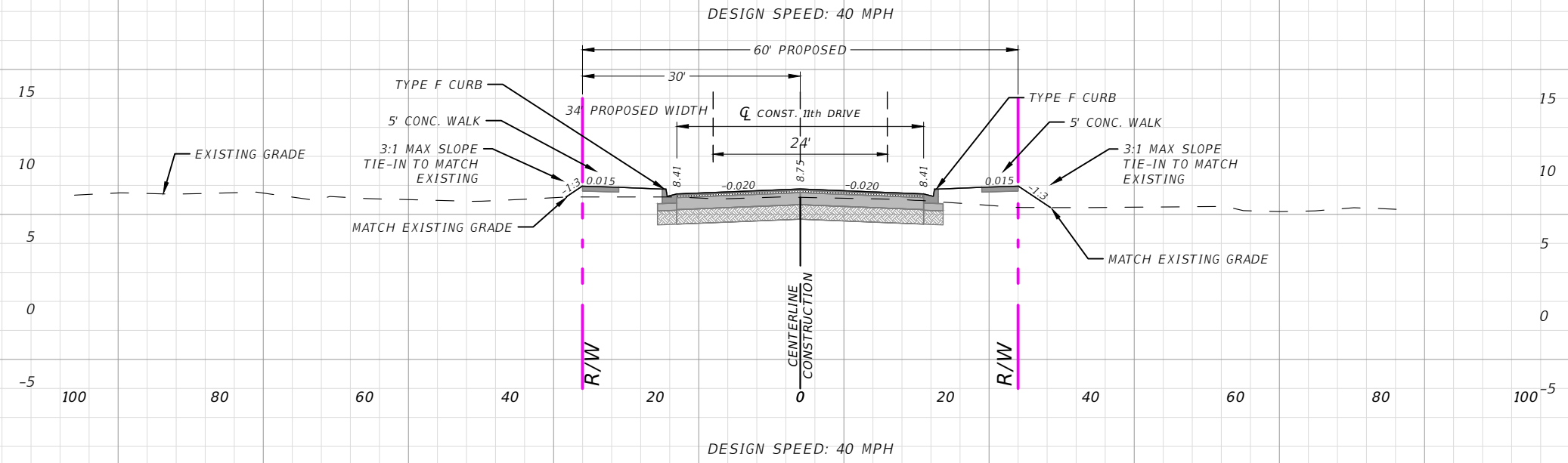
Regular	Exc.	Embankment
A(sf)	V(cy)	A(sf) V(cy)



17+23.50

21.0

23.9



17+00.00

24.8

21.2

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

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
---	---	---	---

AARON STANTON, P.E.  
P.E. LICENSE NUMBER 72460  
MBV ENGINEERING, INC.  
1835 20th STREET  
VERO BEACH, FL 32960  
CERTIFICATE OF AUTHORIZATION 3728

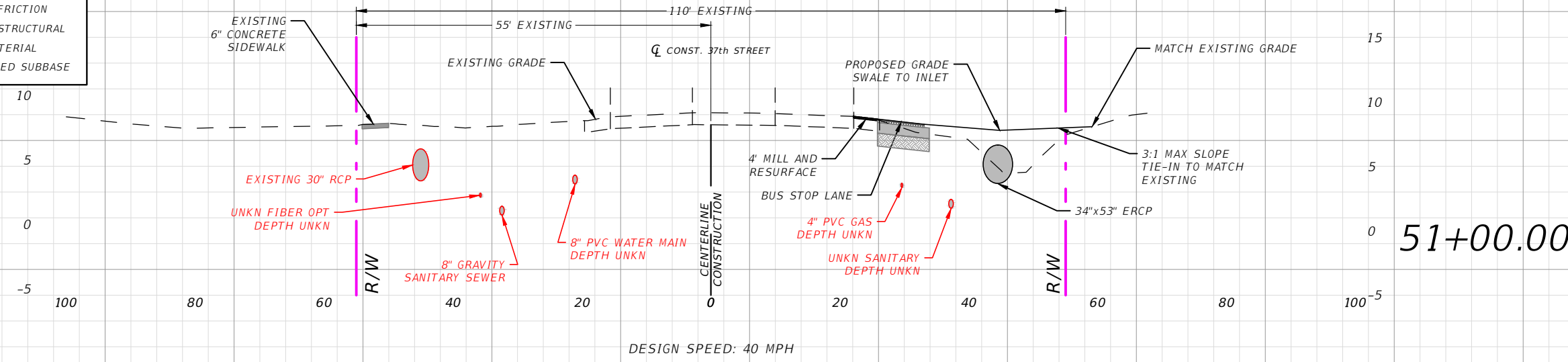
INDIAN RIVER COUNTY		
DEPARTMENT OF PUBLIC WORKS/ENGINEERING DIVISION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
11th DRIVE	INDIAN RIVER	IRC: 2001 FDOT: N/A

SECTIONS - 11TH DRIVE

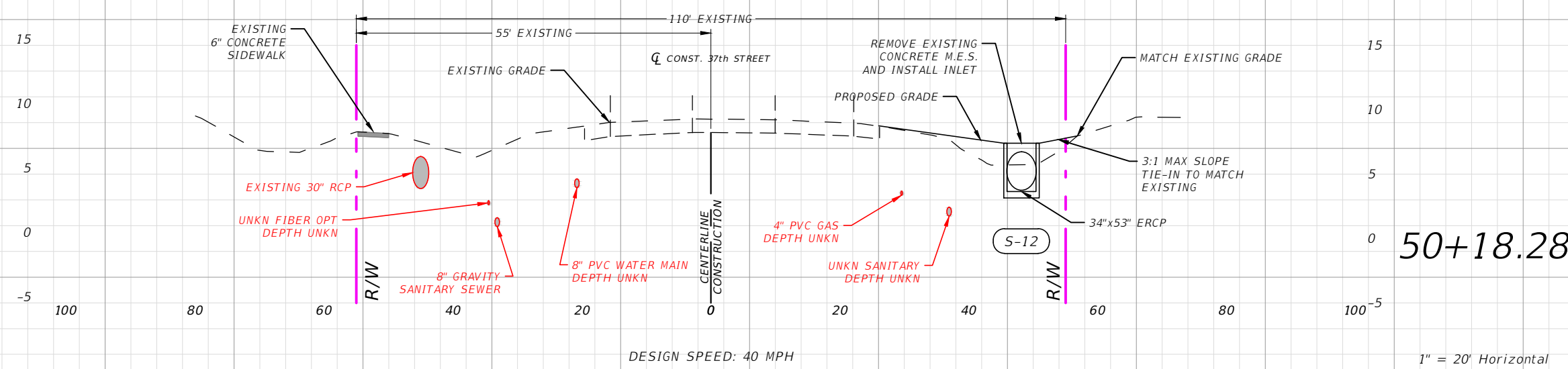
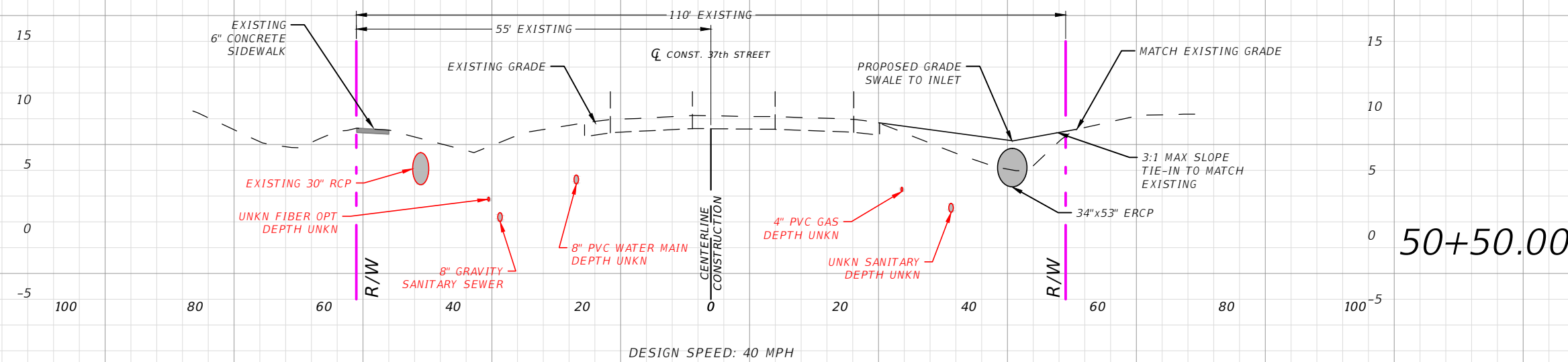
SHEET NO.  
60

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

SECTION LEGEND	
	MILL & RESURFACE
	1" ASPHALT FRICTION
	2" ASPHALT STRUCTURAL
	10" BASE MATERIAL
	12" STABILIZED SUBBASE



Regular	Exc.	Embankment	
A(sf)	V(cy)	A(sf)	V(cy)
	0		78
0.0		41.2	
	0		75
0.0		40.1	
	0		39
0.0		26.3	



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

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
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AARON STANTON, P.E.  
 P.E. LICENSE NUMBER 72460  
 MBV ENGINEERING, INC.  
 1835 20th STREET  
 VERO BEACH, FL 32960  
 CERTIFICATE OF AUTHORIZATION 3728

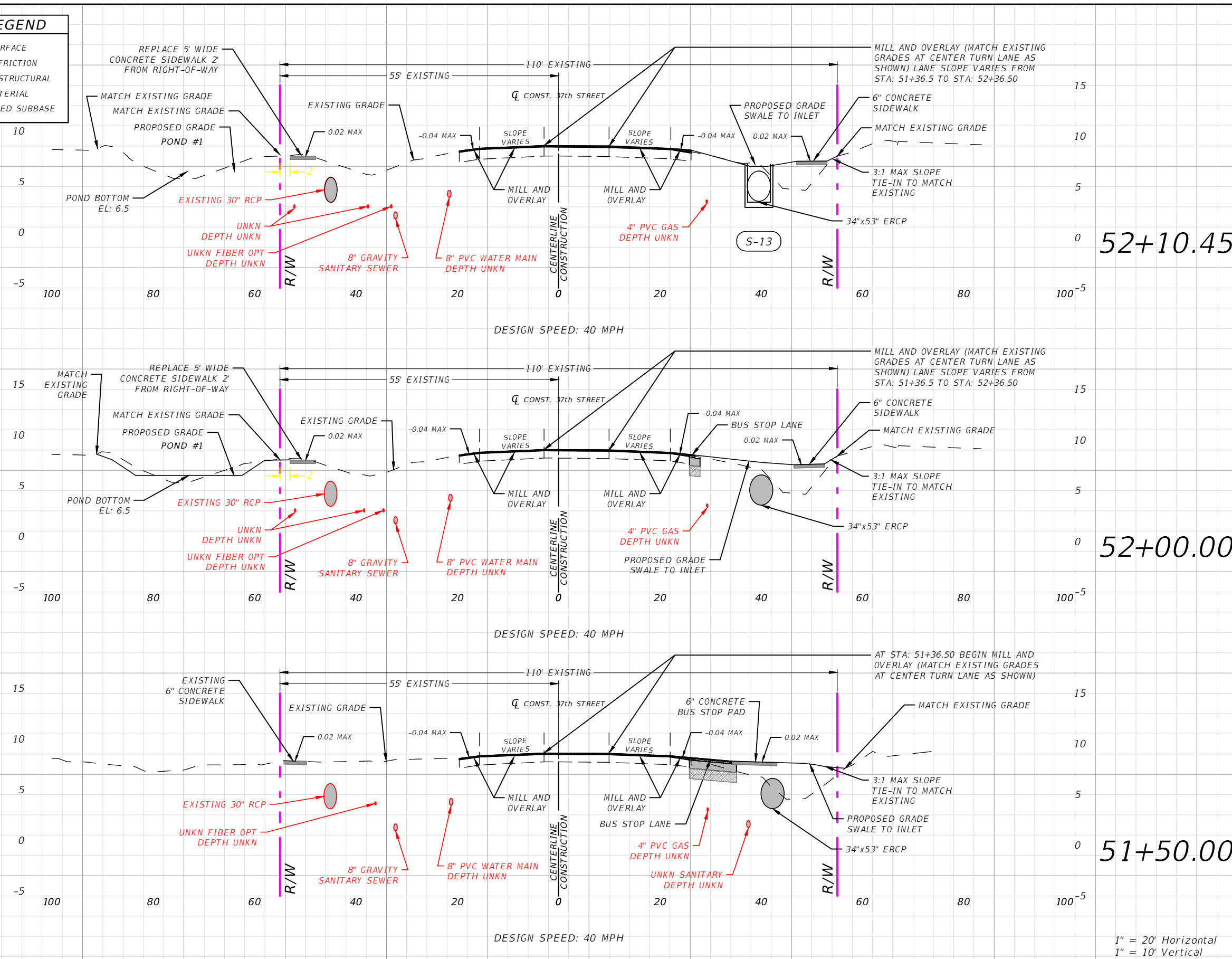
INDIAN RIVER COUNTY		
DEPARTMENT OF PUBLIC WORKS/ENGINEERING DIVISION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
11th DRIVE	INDIAN RIVER	IRC: 2001 FDOT: N/A

SECTIONS - 37TH STREET

SHEET NO.  
 61

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

SECTION LEGEND	
	MILL & RESURFACE
	1" ASPHALT FRICTION
	2" ASPHALT STRUCTURAL
	10" BASE MATERIAL
	12" STABILIZED SUBBASE



Regular	Exc.	Embankment	
A(sf)	V(cy)	A(sf)	V(cy)
	9.7		90
52+10.45	0.0	22.3	
	2.4		11
52+00.00	12.2	36.8	
	11		74
51+50.00	0.0	42.7	

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

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
---	---	---	---

AARON STANTON, P.E.  
P.E. LICENSE NUMBER 72460  
MBV ENGINEERING, INC.  
1835 20th STREET  
VERO BEACH, FL 32960  
CERTIFICATE OF AUTHORIZATION 3728

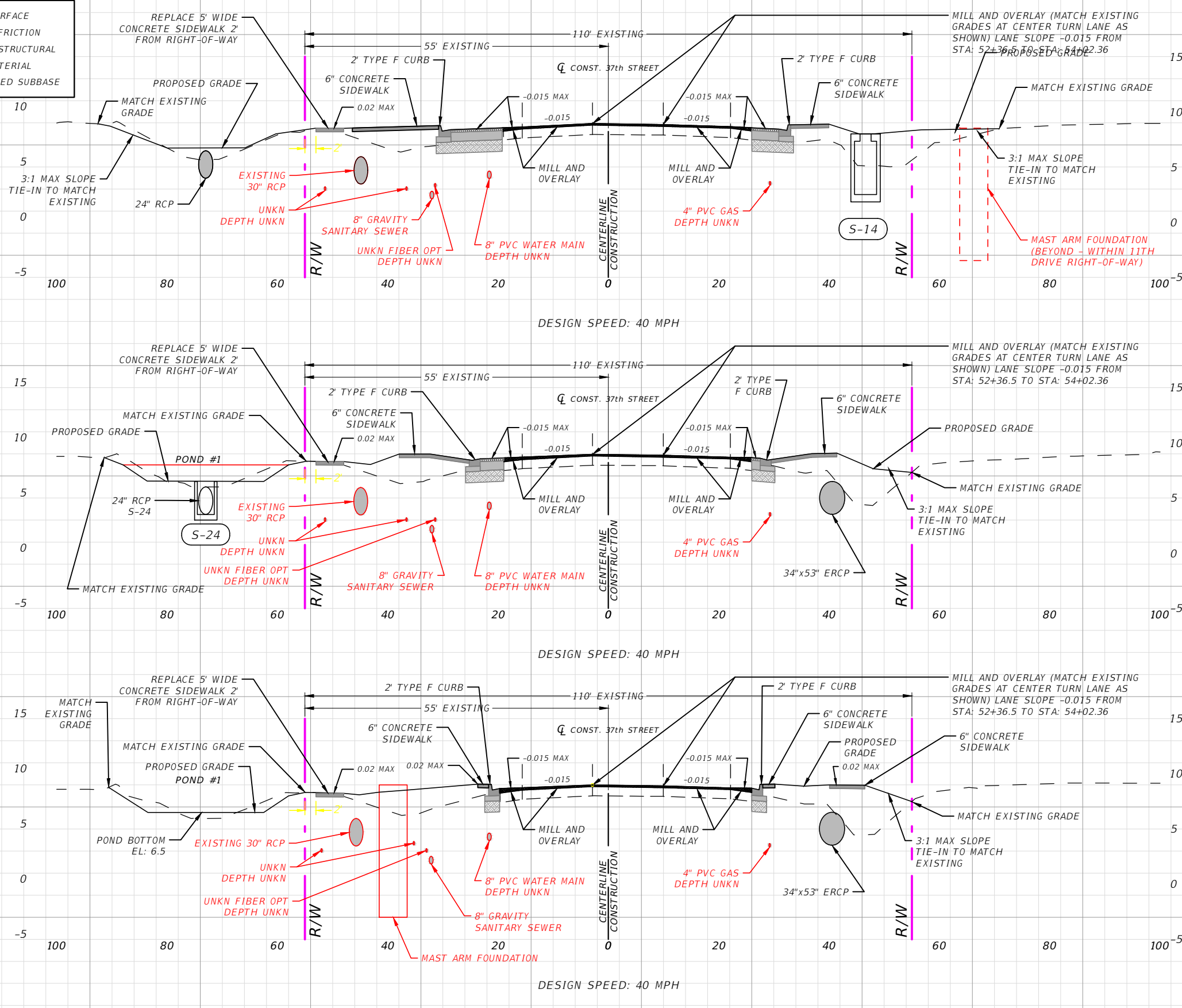
INDIAN RIVER COUNTY		
DEPARTMENT OF PUBLIC WORKS/ENGINEERING DIVISION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
11th DRIVE	INDIAN RIVER	IRC: 2001 FDOT: N/A

SECTIONS - 37TH STREET

SHEET NO.
62

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

SECTION LEGEND	
	MILL & RESURFACE
	1" ASPHALT FRICTION
	2" ASPHALT STRUCTURAL
	10" BASE MATERIAL
	12" STABILIZED SUBBASE



	Regular	Exc.	Embankment	
	A(sf)	V(cy)	A(sf)	V(cy)
52+71.74	3.80	14.2	98.1	81
52+62.36	12.9	2.9	84.9	32
52+50.00	13.3	6.0	101	43

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

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
---	---	---	---

AARON STANTON, P.E.  
P.E. LICENSE NUMBER 72460  
MBV ENGINEERING, INC.  
1835 20th STREET  
VERO BEACH, FL 32960  
CERTIFICATE OF AUTHORIZATION 3728

INDIAN RIVER COUNTY		
DEPARTMENT OF PUBLIC WORKS/ENGINEERING DIVISION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
11th DRIVE	INDIAN RIVER	IRC: 2001 FDOT: N/A

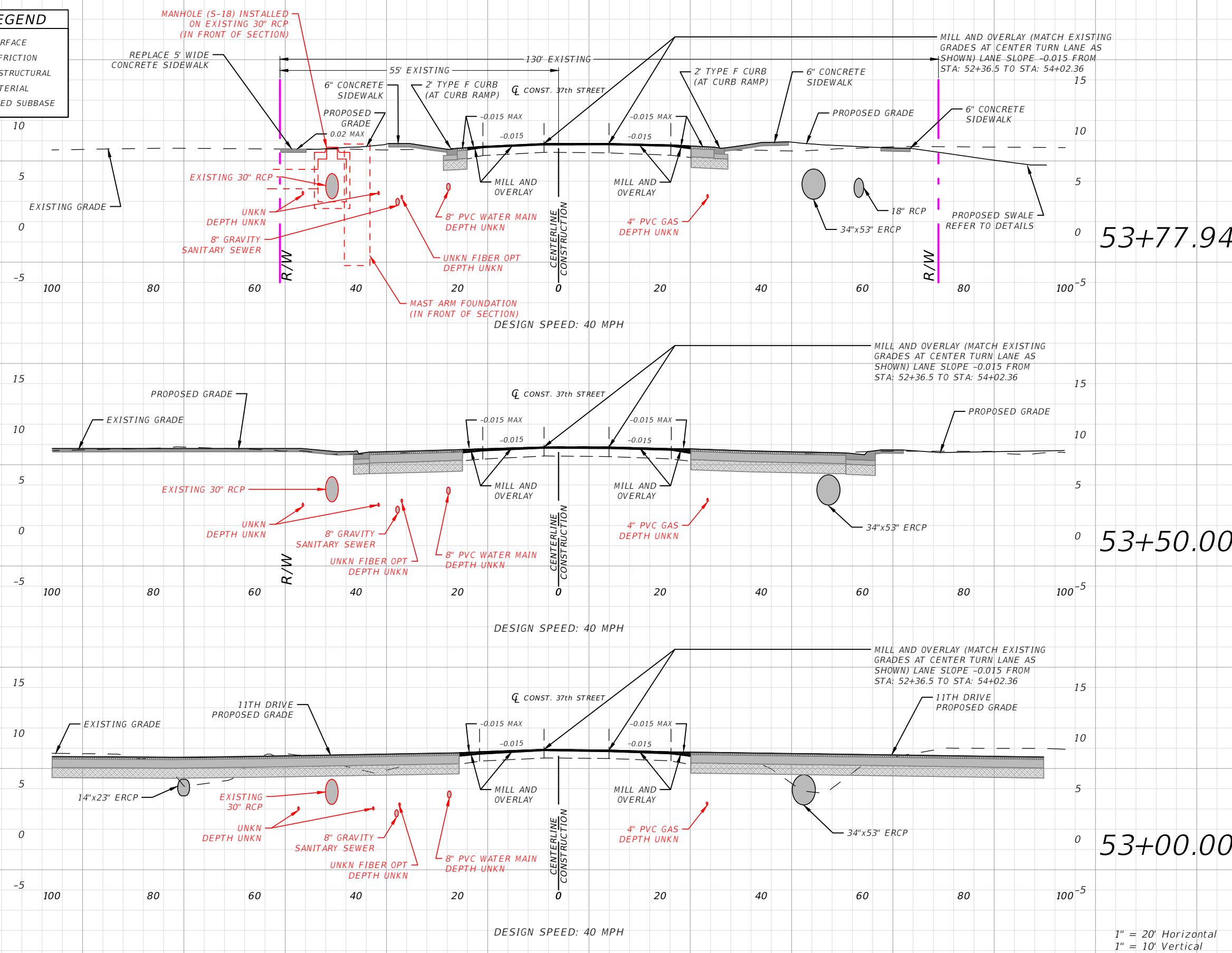
SECTIONS - 37TH STREET

SHEET NO.
63

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



SECTION LEGEND	
	MILL & RESURFACE
	1" ASPHALT FRICTION
	2" ASPHALT STRUCTURAL
	10" BASE MATERIAL
	12" STABILIZED SUBBASE



Regular	Exc.	Embankment
A(sf)	V(cy)	A(sf) V(cy)
	0.0	35
0.0		17.2
0		11
0.0		3.5
22		56
0.0		56.8

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

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
---	---	---	---

AARON STANTON, P.E.  
P.E. LICENSE NUMBER 72460  
MBV ENGINEERING, INC.  
1835 20th STREET  
VERO BEACH, FL 32960  
CERTIFICATE OF AUTHORIZATION 3728

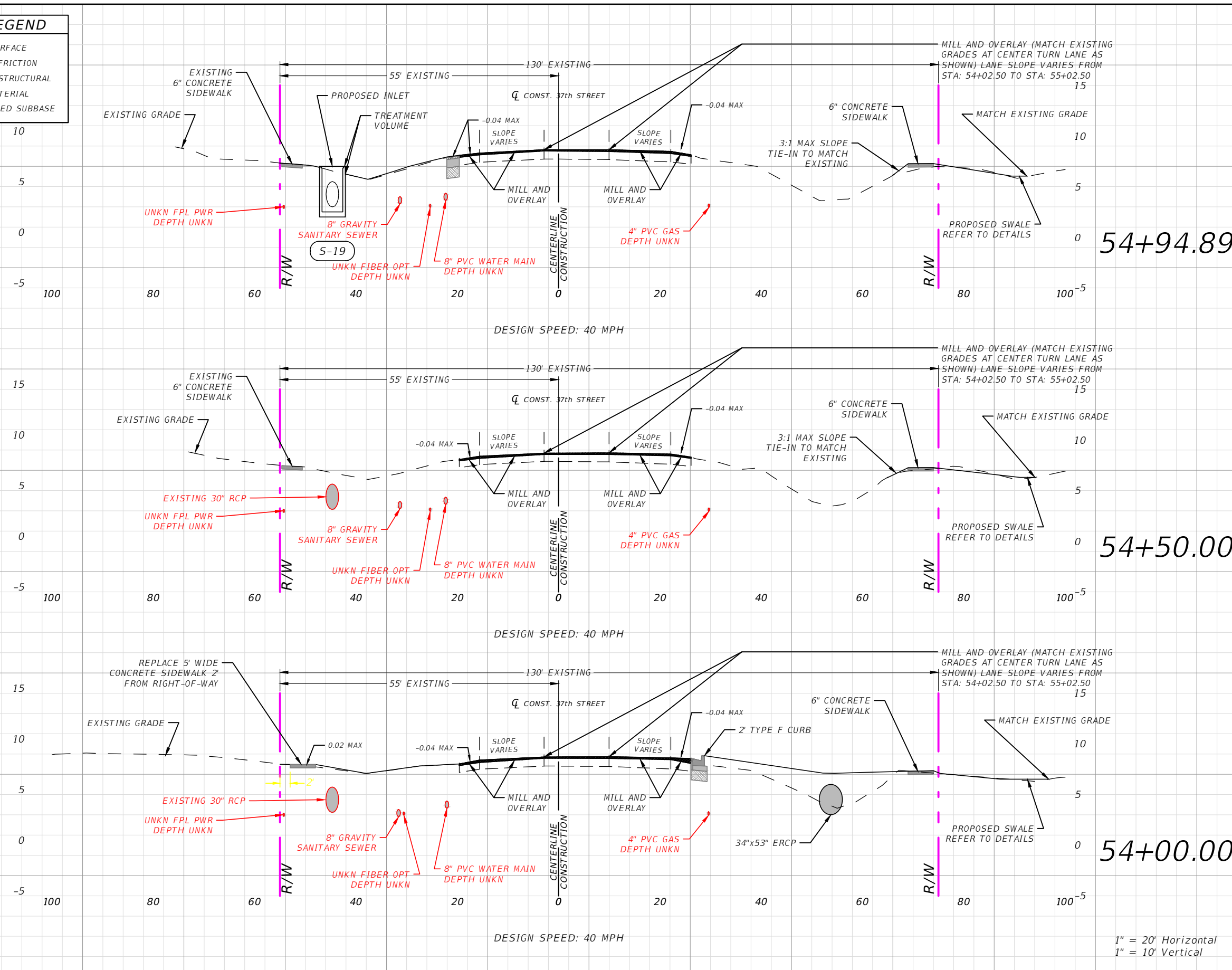
INDIAN RIVER COUNTY		
DEPARTMENT OF PUBLIC WORKS/ENGINEERING DIVISION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
11th DRIVE	INDIAN RIVER	IRC: 2001 FDOT: N/A

SECTIONS - 37TH STREET

SHEET NO.
64

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

SECTION LEGEND	
	MILL & RESURFACE
	1" ASPHALT FRICTION
	2" ASPHALT STRUCTURAL
	10" BASE MATERIAL
	12" STABILIZED SUBBASE



Regular	Exc.	Embankment	
A(sf)	V(cy)	A(sf)	V(cy)
	0		1.1
54+94.89	0.0	4.30	
54+50.00	2.1	1.50	4.8
54+00.00	0.0	69.1	2.3

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

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
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AARON STANTON, P.E.  
P.E. LICENSE NUMBER 72460  
MBV ENGINEERING, INC.  
1835 20th STREET  
VERO BEACH, FL 32960  
CERTIFICATE OF AUTHORIZATION 3728

INDIAN RIVER COUNTY		
DEPARTMENT OF PUBLIC WORKS/ENGINEERING DIVISION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
11th DRIVE	INDIAN RIVER	IRC: 2001 FDOT: N/A

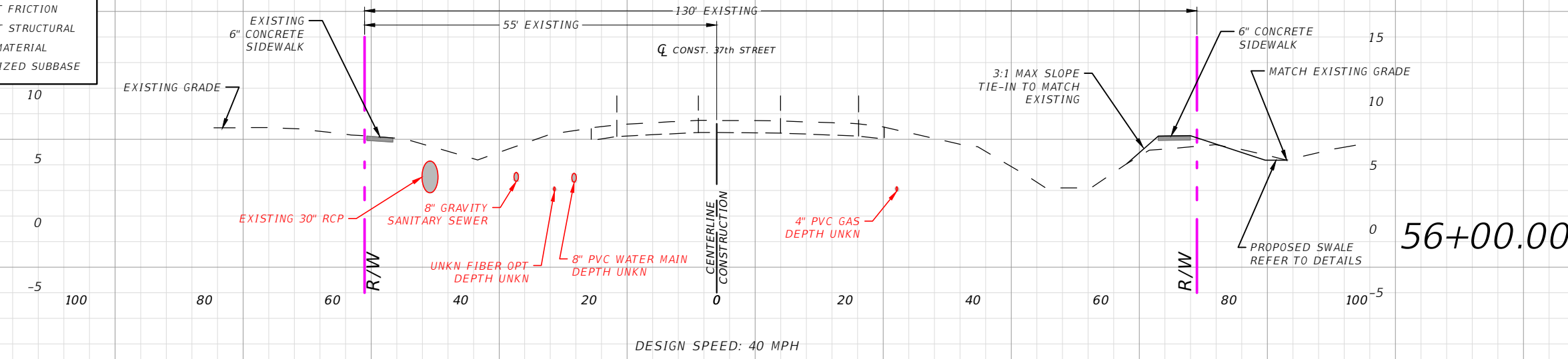
**SECTIONS - 37TH STREET**

SHEET NO.
65

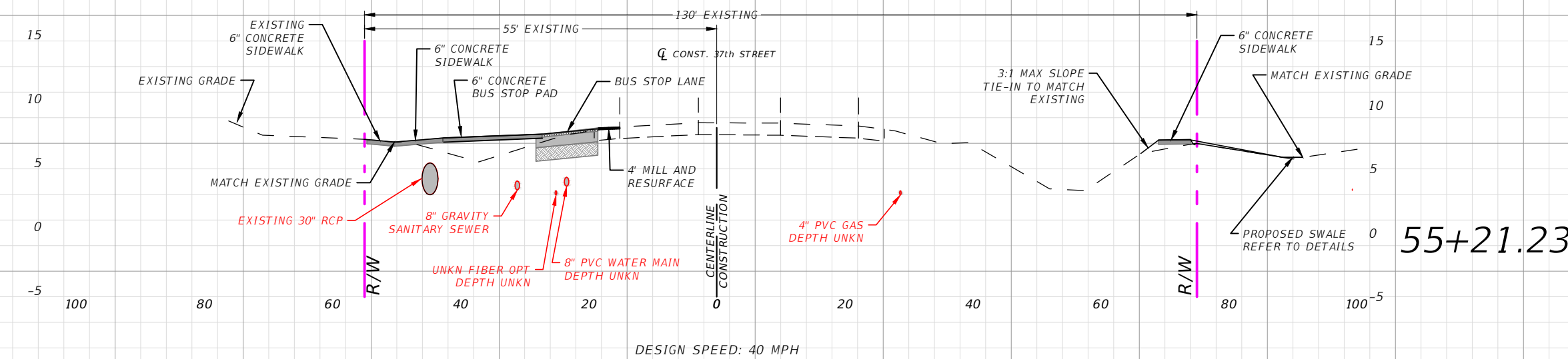
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

SECTION LEGEND	
	MILL & RESURFACE
	1" ASPHALT FRICTION
	2" ASPHALT STRUCTURAL
	10" BASE MATERIAL
	12" STABILIZED SUBBASE

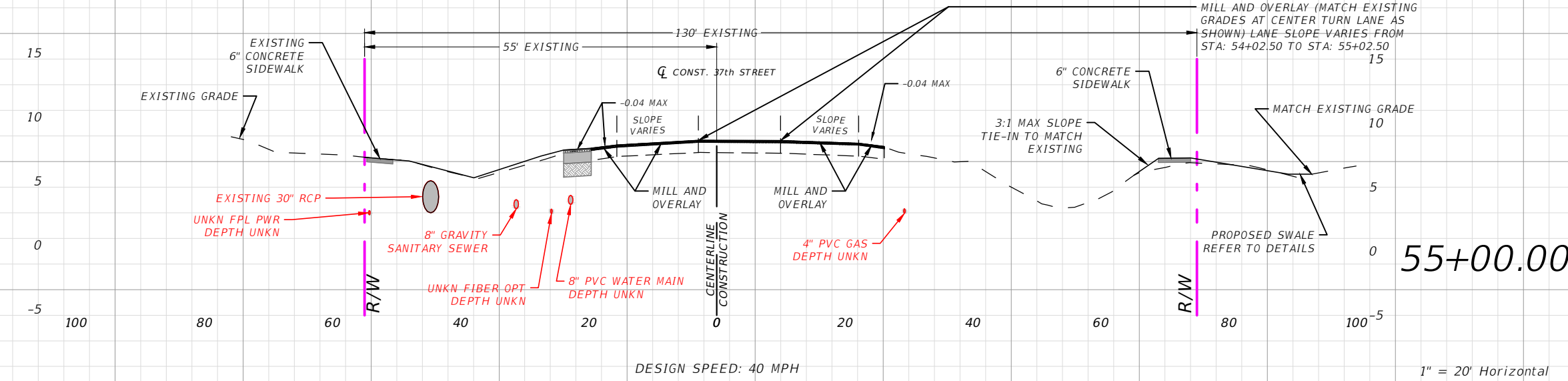
Regular	Exc.	Embankment	
A(sf)	V(cy)	A(sf)	V(cy)



	2.0		13
56+00.00	1.90	6.80	



	2.8		39
55+21.23	0.0	19.9	



	0		11
55+00.00	0.0	7.4	

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

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
---	---	---	---

AARON STANTON, P.E.  
P.E. LICENSE NUMBER 72460  
MBV ENGINEERING, INC.  
1835 20th STREET  
VERO BEACH, FL 32960  
CERTIFICATE OF AUTHORIZATION 3728

INDIAN RIVER COUNTY		
DEPARTMENT OF PUBLIC WORKS/ENGINEERING DIVISION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
11th DRIVE	INDIAN RIVER	IRC: 2001 FDOT: N/A

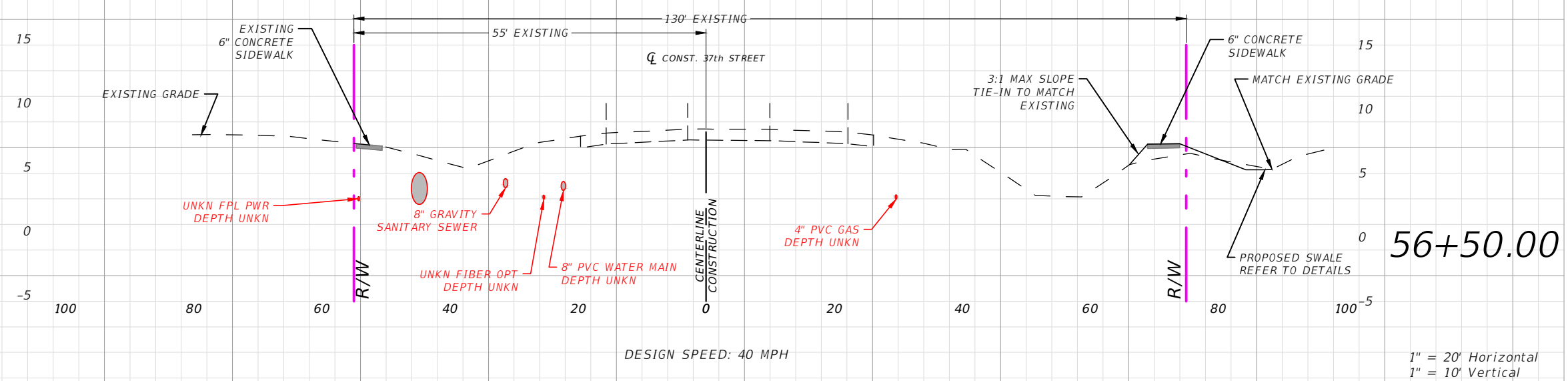
**SECTIONS - 37TH STREET**

SHEET NO.
66

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

SECTION LEGEND	
	MILL & RESURFACE
	1" ASPHALT FRICTION
	2" ASPHALT STRUCTURAL
	10" BASE MATERIAL
	12" STABILIZED SUBBASE

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



DESIGN SPEED: 40 MPH

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

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
---	---	---	---

AARON STANTON, P.E.  
P.E. LICENSE NUMBER 72460  
MBV ENGINEERING, INC.  
1835 20th STREET  
VERO BEACH, FL 32960  
CERTIFICATE OF AUTHORIZATION 3728

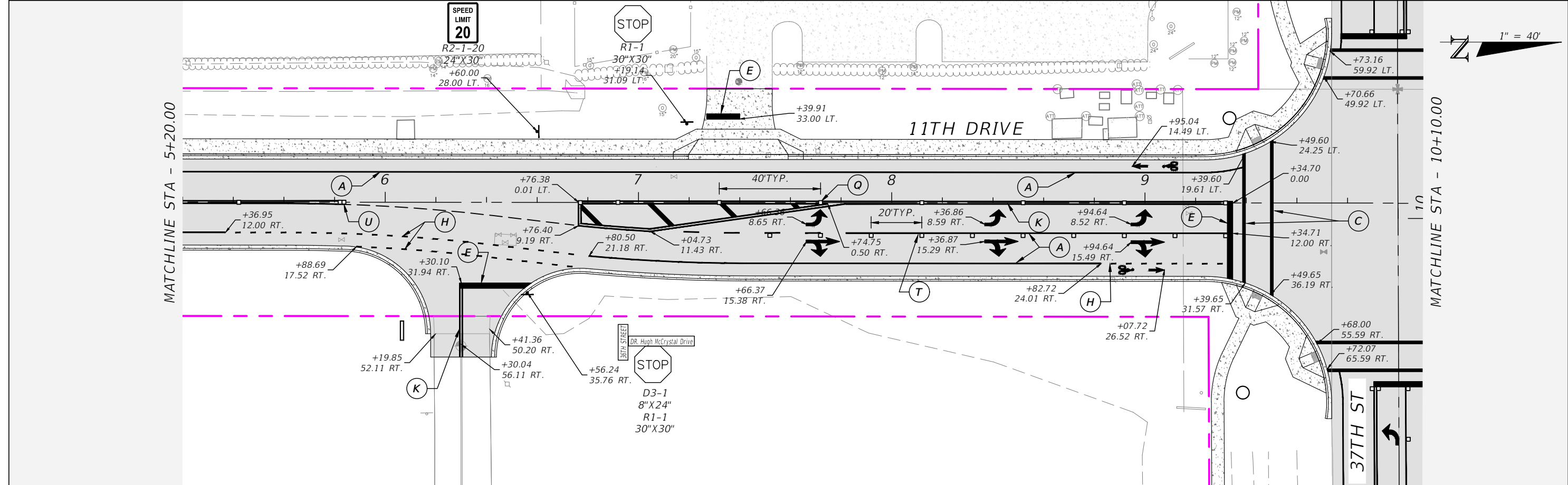
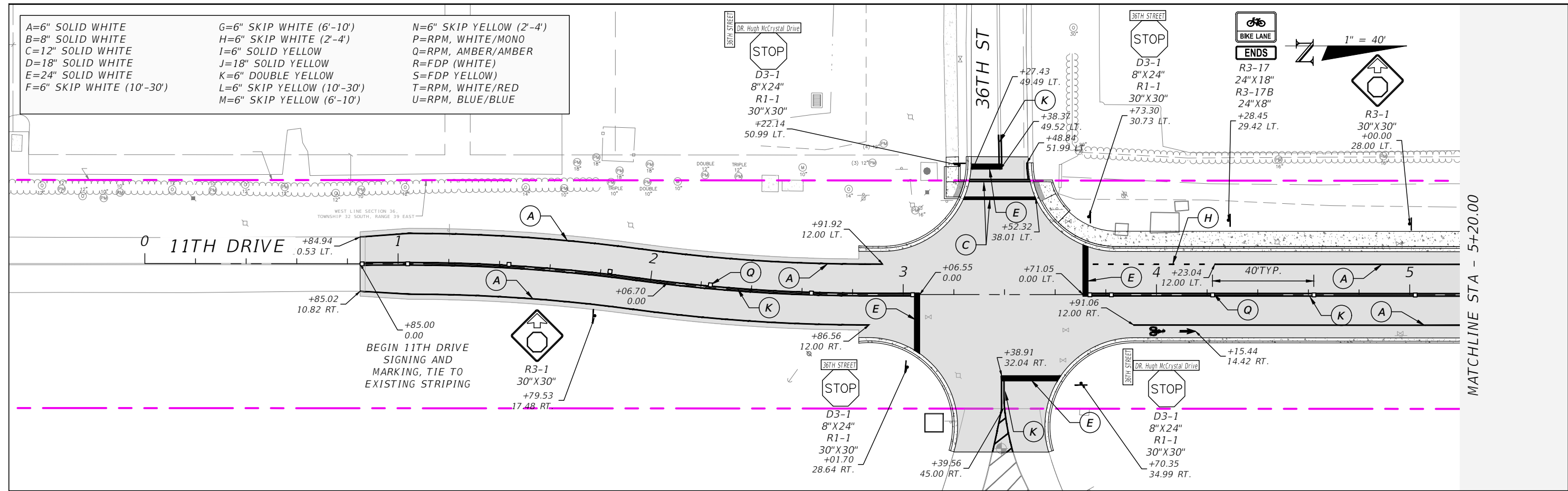
INDIAN RIVER COUNTY		
DEPARTMENT OF PUBLIC WORKS/ENGINEERING DIVISION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
11th DRIVE	INDIAN RIVER	IRC: 2001 FDOT: N/A

**SECTIONS - 37TH STREET**

SHEET NO.
67

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

- A=6" SOLID WHITE
- B=8" SOLID WHITE
- C=12" SOLID WHITE
- D=18" SOLID WHITE
- E=24" SOLID WHITE
- F=6" SKIP WHITE (10'-30')
- G=6" SKIP WHITE (6'-10')
- H=6" SKIP WHITE (2'-4')
- I=6" SOLID YELLOW
- J=18" SOLID YELLOW
- K=6" DOUBLE YELLOW
- L=6" SKIP YELLOW (10'-30')
- M=6" SKIP YELLOW (6'-10')
- N=6" SKIP YELLOW (2'-4')
- P=RPM, WHITE/MONO
- Q=RPM, AMBER/AMBER
- R=FDP (WHITE)
- S=FDP YELLOW
- T=RPM, WHITE/RED
- U=RPM, BLUE/BLUE



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

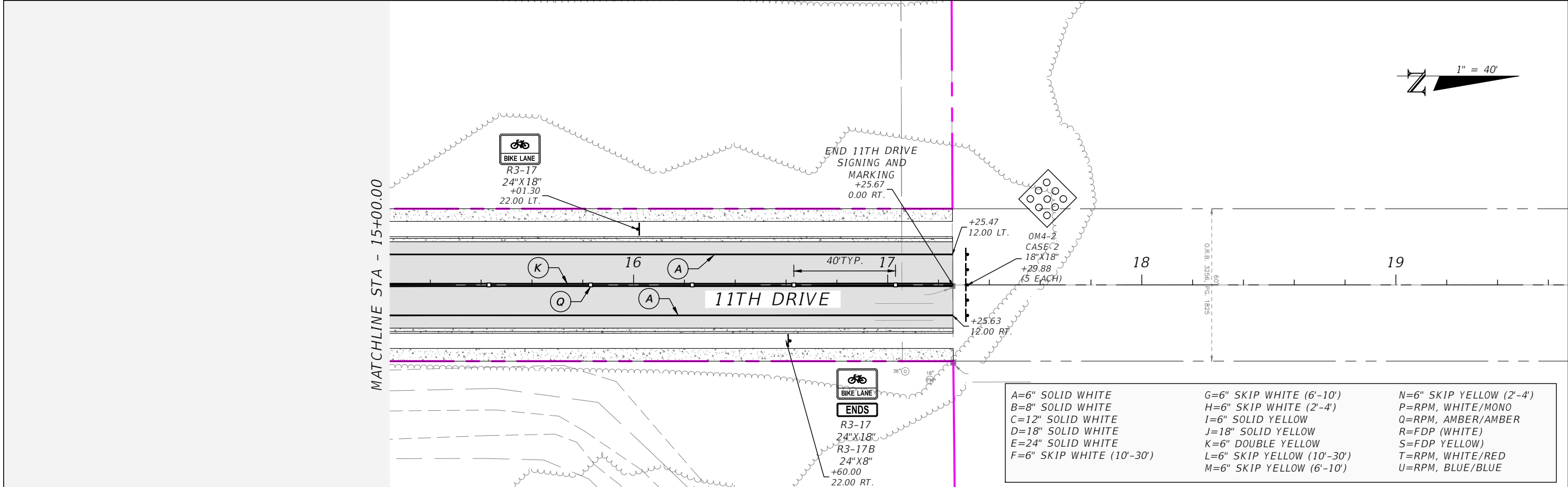
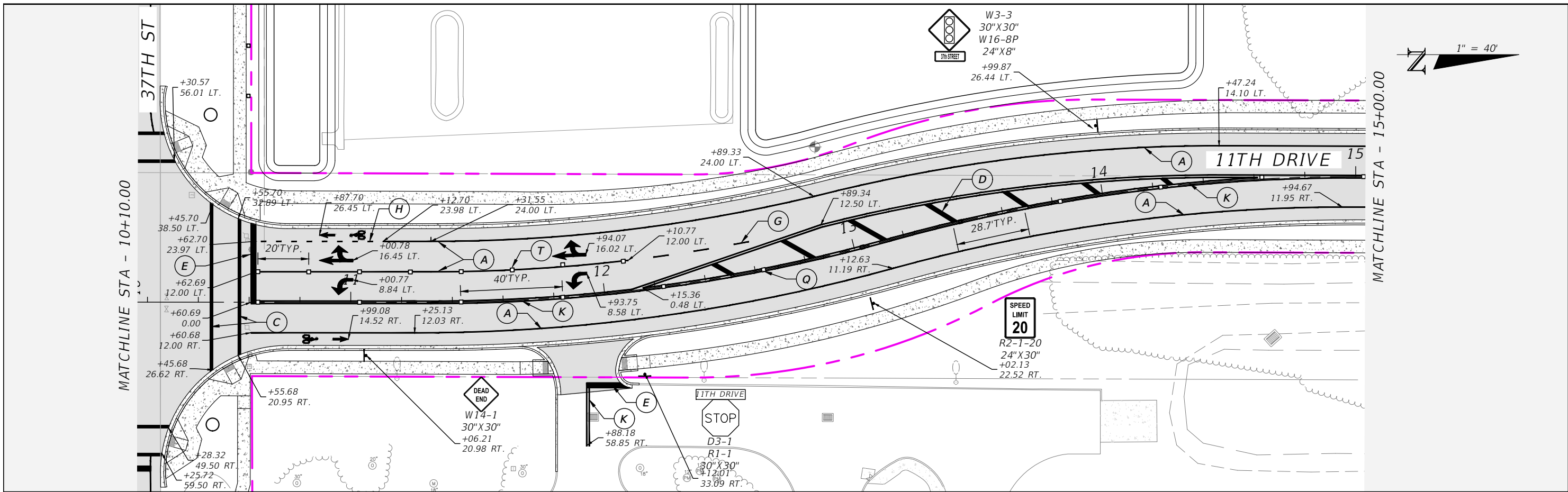
AARON STANTON, P.E.  
P.E. LICENSE NUMBER 72460  
MBV ENGINEERING, INC.  
1835 20th STREET  
VERO BEACH, FL 32960  
CERTIFICATE OF AUTHORIZATION 3728

INDIAN RIVER COUNTY		
DEPARTMENT OF PUBLIC WORKS/ENGINEERING DIVISION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
11th DRIVE	INDIAN RIVER	IRC: 2001 FDOT: N/A

**PAVEMENT MARKING AND  
SIGNAGE PLAN**

SHEET NO.	68
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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.



A=6" SOLID WHITE	G=6" SKIP WHITE (6'-10')	N=6" SKIP YELLOW (2'-4')
B=8" SOLID WHITE	H=6" SKIP WHITE (2'-4')	P=RPM, WHITE/MONO
C=12" SOLID WHITE	I=6" SOLID YELLOW	Q=RPM, AMBER/AMBER
D=18" SOLID WHITE	J=18" SOLID YELLOW	R=FDP (WHITE)
E=24" SOLID WHITE	K=6" DOUBLE YELLOW	S=FDP YELLOW
F=6" SKIP WHITE (10'-30')	L=6" SKIP YELLOW (10'-30')	T=RPM, WHITE/RED
	M=6" SKIP YELLOW (6'-10')	U=RPM, BLUE/BLUE

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

AARON STANTON, P.E.  
P.E. LICENSE NUMBER 72460  
MBV ENGINEERING, INC.  
1835 20th STREET  
VERO BEACH, FL 32960  
CERTIFICATE OF AUTHORIZATION 3728

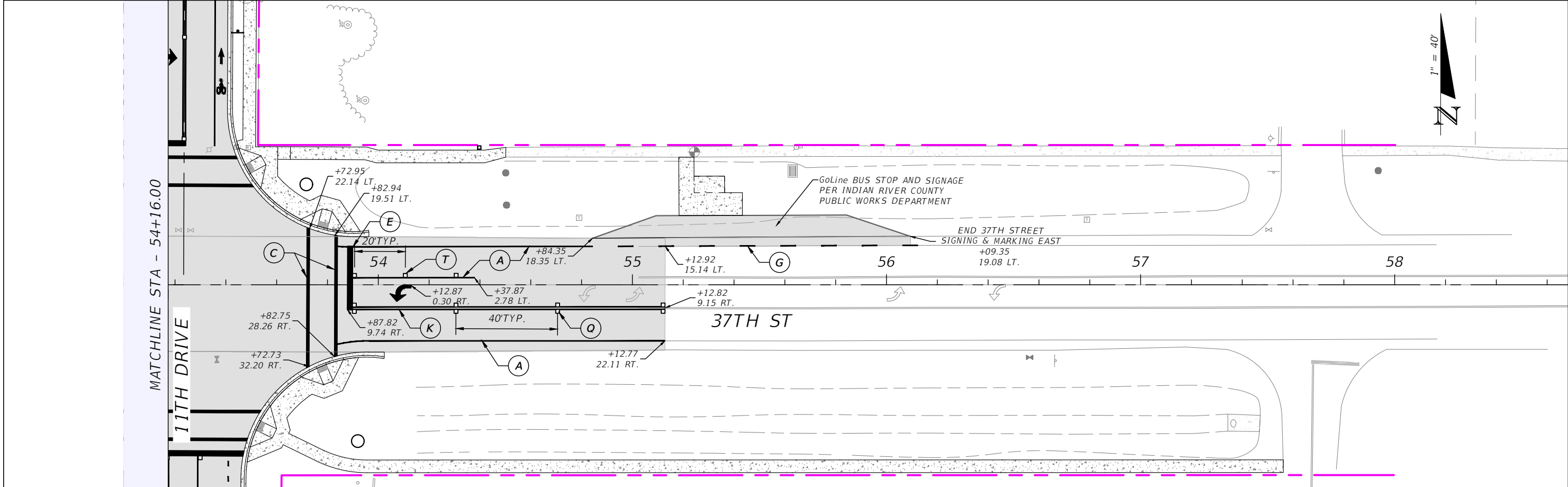
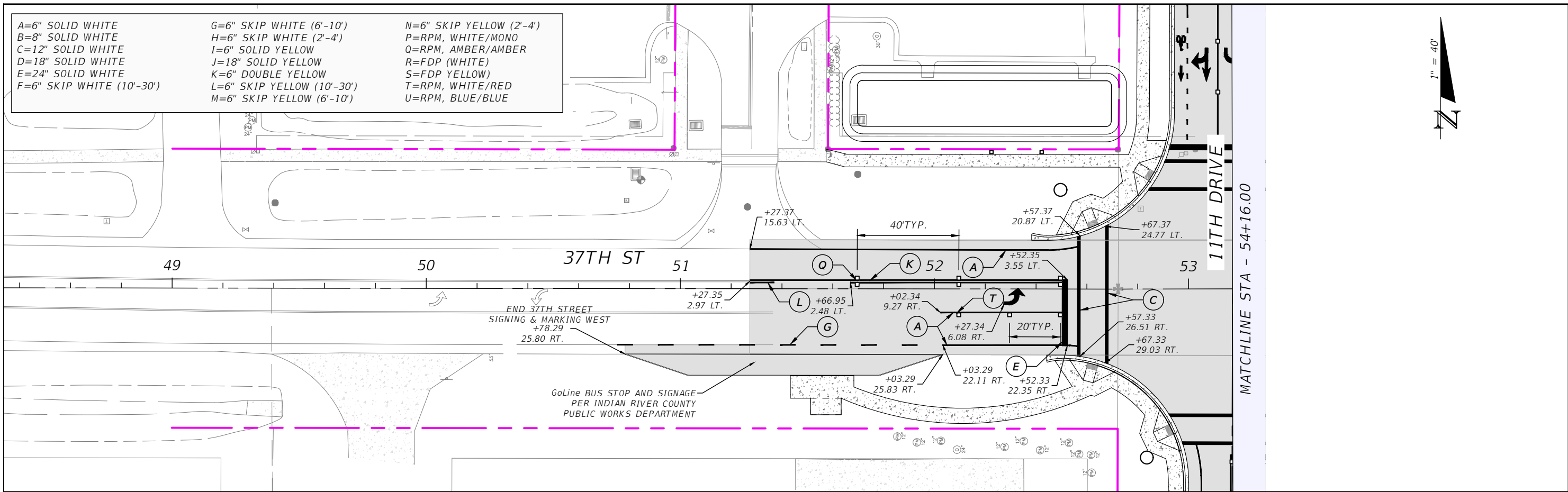
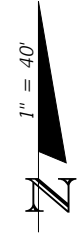
INDIAN RIVER COUNTY		
DEPARTMENT OF PUBLIC WORKS/ENGINEERING DIVISION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
11th DRIVE	INDIAN RIVER	IRC: 2001 FDOT: N/A

## PAVEMENT MARKING AND SIGNAGE PLAN

SHEET NO.  
69

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

A=6" SOLID WHITE	G=6" SKIP WHITE (6'-10')	N=6" SKIP YELLOW (2'-4')
B=8" SOLID WHITE	H=6" SKIP WHITE (2'-4')	P=RPM, WHITE/MONO
C=12" SOLID WHITE	I=6" SOLID YELLOW	Q=RPM, AMBER/AMBER
D=18" SOLID WHITE	J=18" SOLID YELLOW	R=FDP (WHITE)
E=24" SOLID WHITE	K=6" DOUBLE YELLOW	S=FDP YELLOW
F=6" SKIP WHITE (10'-30')	L=6" SKIP YELLOW (10'-30')	T=RPM, WHITE/RED
	M=6" SKIP YELLOW (6'-10')	U=RPM, BLUE/BLUE



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

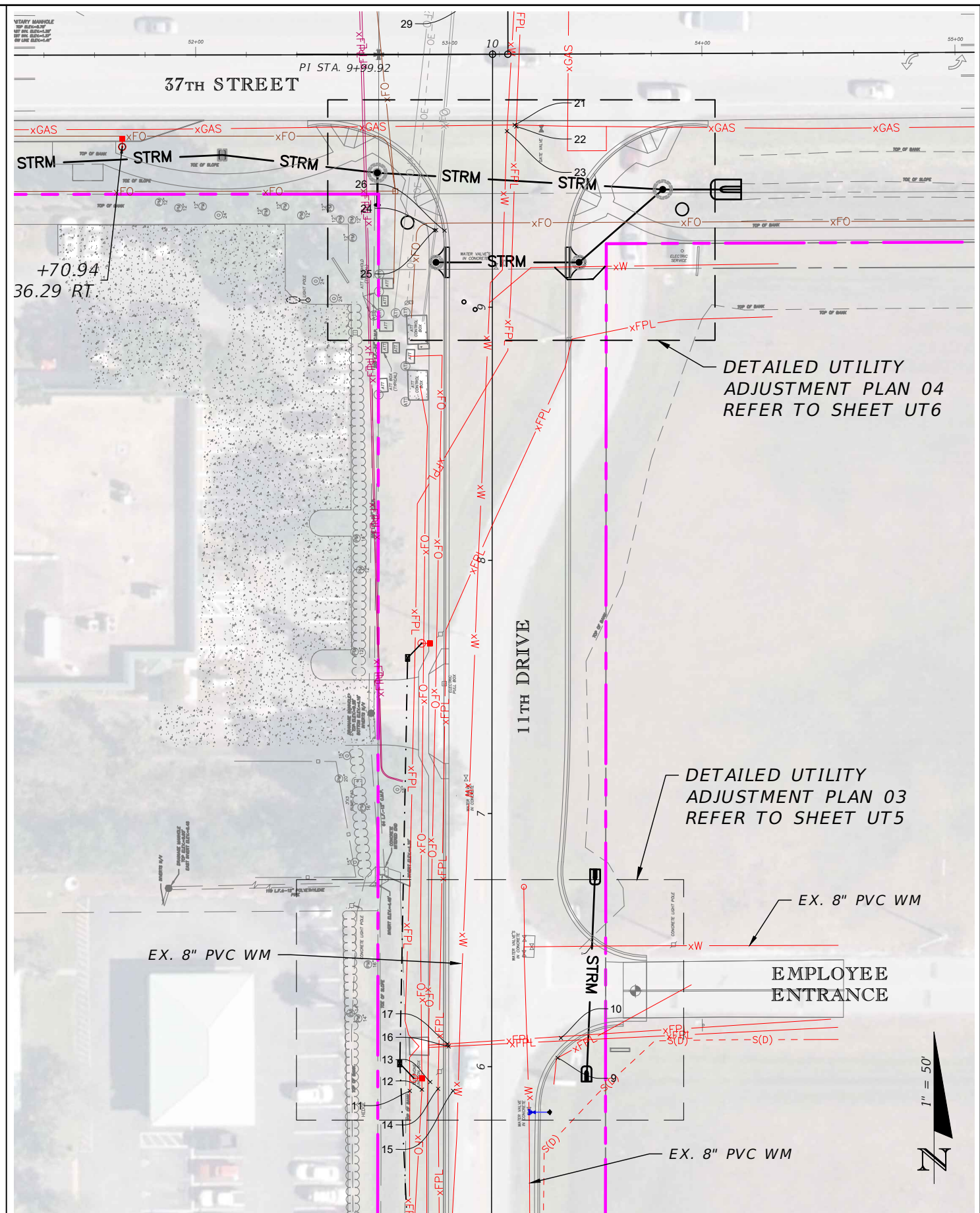
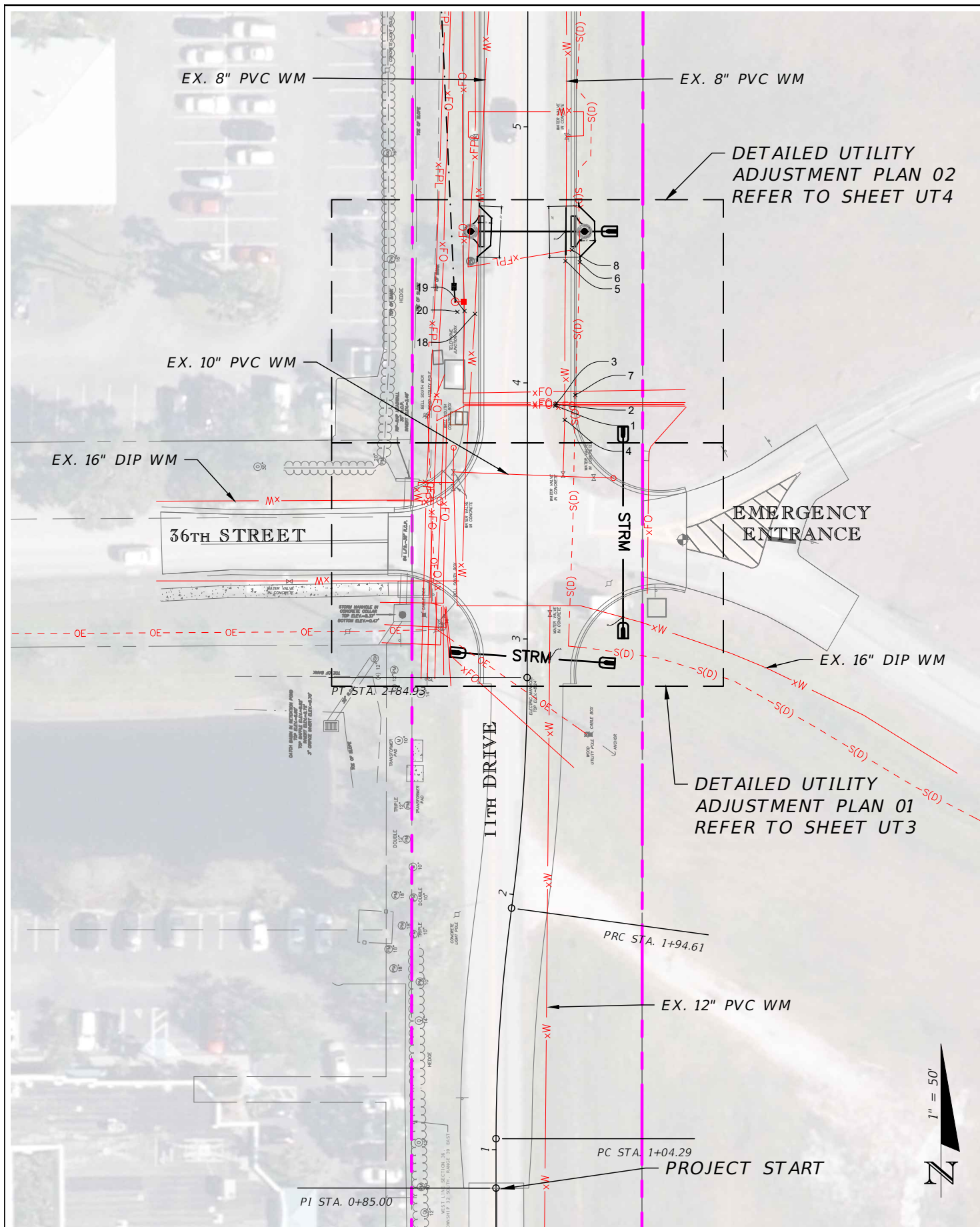
AARON STANTON, P.E.  
P.E. LICENSE NUMBER 72460  
MBV ENGINEERING, INC.  
1835 20th STREET  
VERO BEACH, FL 32960  
CERTIFICATE OF AUTHORIZATION 3728

INDIAN RIVER COUNTY		
DEPARTMENT OF PUBLIC WORKS/ENGINEERING DIVISION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
11th DRIVE	INDIAN RIVER	IRC: 2001 FDOT: N/A

**PAVEMENT MARKING AND  
SIGNAGE PLAN**

SHEET NO.
70

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



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

AARON STANTON, P.E.  
P.E. LICENSE NUMBER 72460  
MBV ENGINEERING, INC.  
1835 20th STREET  
VERO BEACH, FL 32960  
CERTIFICATE OF AUTHORIZATION 3728

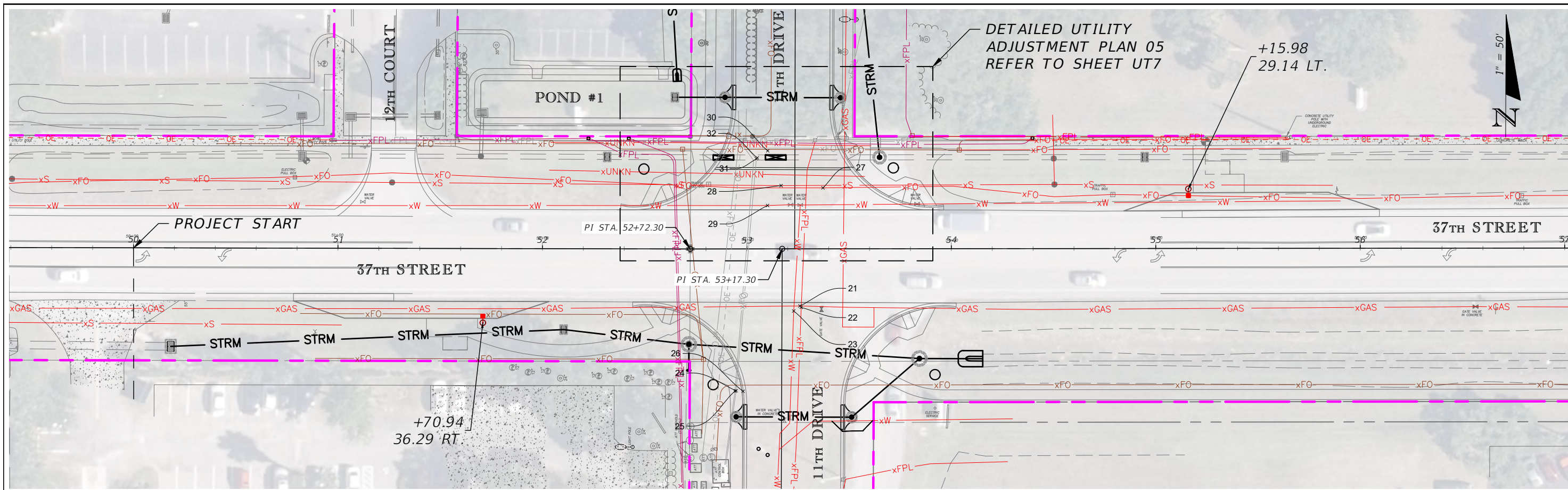
INDIAN RIVER COUNTY		
DEPARTMENT OF PUBLIC WORKS/ENGINEERING DIVISION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
11th DRIVE	INDIAN RIVER	IRC: 2001 FDOT: N/A

**UTILITY ADJUSTMENT PLAN -  
11TH DRIVE**

SHEET NO.
UT1

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





SOFT DIG LOCATION DATA			
HOLE #	SOFT DIG #	TOP	DESCRIPTION
1	TEST HOLE 1A-1	4.90	4" COMM. P.V.C.
2	TEST HOLE 1A-2	4.90	4" COMM. P.V.C.
3	TEST HOLE 1B	4.80	2" COMM. P.V.C.
4	TEST HOLE 2	5.60	8" WATERMAIN P.V.C.
5	TEST HOLE 3	4.30	8" WATERMAIN P.V.C.
6	TEST HOLE 4	4.20	3" FORCEMAIN P.V.C.
7	TEST HOLE 5	3.20	3" FORCEMAIN P.V.C.
8	TEST HOLE 6	6.00	1" ELECTRIC P.V.C.
9	TEST HOLE 7	5.30	3/4" ELECTRIC P.V.C.
10	TEST HOLE 8	2.15	ELECTRIC (UNKOWN SIZE AND MATERIAL)
11	TEST HOLE 9	4.20	8" ELECTRIC P.V.C.
12	TEST HOLE 10	6.10	1/4" COMM. (DIRECT BURY)
13	TEST HOLE 11	2.70	5' WIDE UNKOWN STRUCTURE
14	TEST HOLE 12	5.80	1" ELECTRIC P.V.C.
15	TEST HOLE 13	4.80	8" WATERMAIN P.V.C.
16	TEST HOLE 14A	4.20	6" ELECTRIC P.V.C.
17	TEST HOLE 14B	4.10	6" ELECTRIC P.V.C.
18	TEST HOLE 15	4.30	8" WATERMAIN P.V.C.
19	TEST HOLE 16	4.00	POSSIBLE FIBER OPTIC P.V.C.
20	TEST HOLE 17	10.00	NO UTILITIES FOUND

SOFT DIG LOCATION DATA			
HOLE #	SOFT DIG #	TOP	DESCRIPTION
21	TEST HOLE 18	5.30	4" GAS P.V.C.
22	TEST HOLE 19	-1.30	ELECTRIC (UNKOWN SIZE AND MATERIAL)
23	TEST HOLE 20	3.20	8" WATERMAIN (UNKNOWN MATERIAL)
24	TEST HOLE 21A	5.60	1/4" COMM. (DIRECT BURY)
25	TEST HOLE 21B	4.85	1" COMM. P.V.C.
26	TEST HOLE M. A1	10.00	NO UTILITIES FOUND
27	TEST HOLE 22	5.30	POSSIBLE 2" COMM. P.V.C.
28	TEST HOLE 23	2.50	10" POSSIBLE SANITARY P.V.C.
29	TEST HOLE 24	5.00	8" WATERMAIN P.V.C.
30	TEST HOLE 25	5.50	1" COMM. (DIRECT BURY)
31	TEST HOLE 26	6.10	1/4" COMM. (DIRECT BURY)
32	TEST HOLE 27	6.00	24" STORM R.C.P.

CITY OF VERO BEACH SOFT DIG LOCATION DATA			
MARK	CITY SOFT DIG #	TOP	DESCRIPTION
A	TEST HOLE 1	4.00	12" P.V.C. WATER MAIN
B	TEST HOLE 2	4.39	16" D.I.P. WATER MAIN
C	TEST HOLE 3	4.54	8" P.V.C. WATER MAIN
D	TEST HOLE 4	4.14	8" P.V.C. WATER MAIN

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
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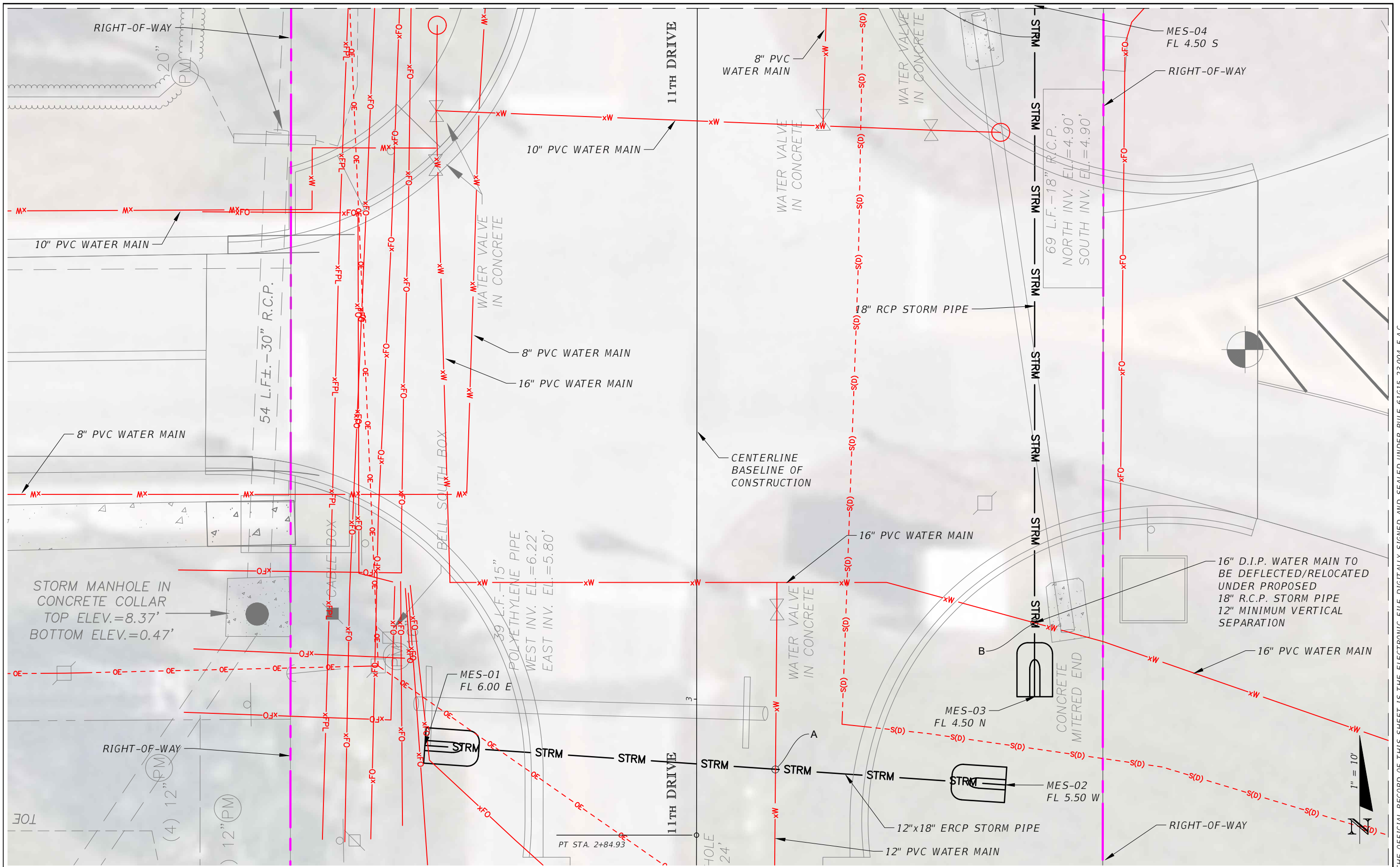
AARON STANTON, P.E.  
P.E. LICENSE NUMBER 72460  
MBV ENGINEERING, INC.  
1835 20th STREET  
VERO BEACH, FL 32960  
CERTIFICATE OF AUTHORIZATION 3728

INDIAN RIVER COUNTY		
DEPARTMENT OF PUBLIC WORKS/ENGINEERING DIVISION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
11th DRIVE	INDIAN RIVER	IRC: 2001 FDOT: N/A

**UTILITY ADJUSTMENT PLAN -  
37TH STREET**

SHEET NO.  
UT2

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



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

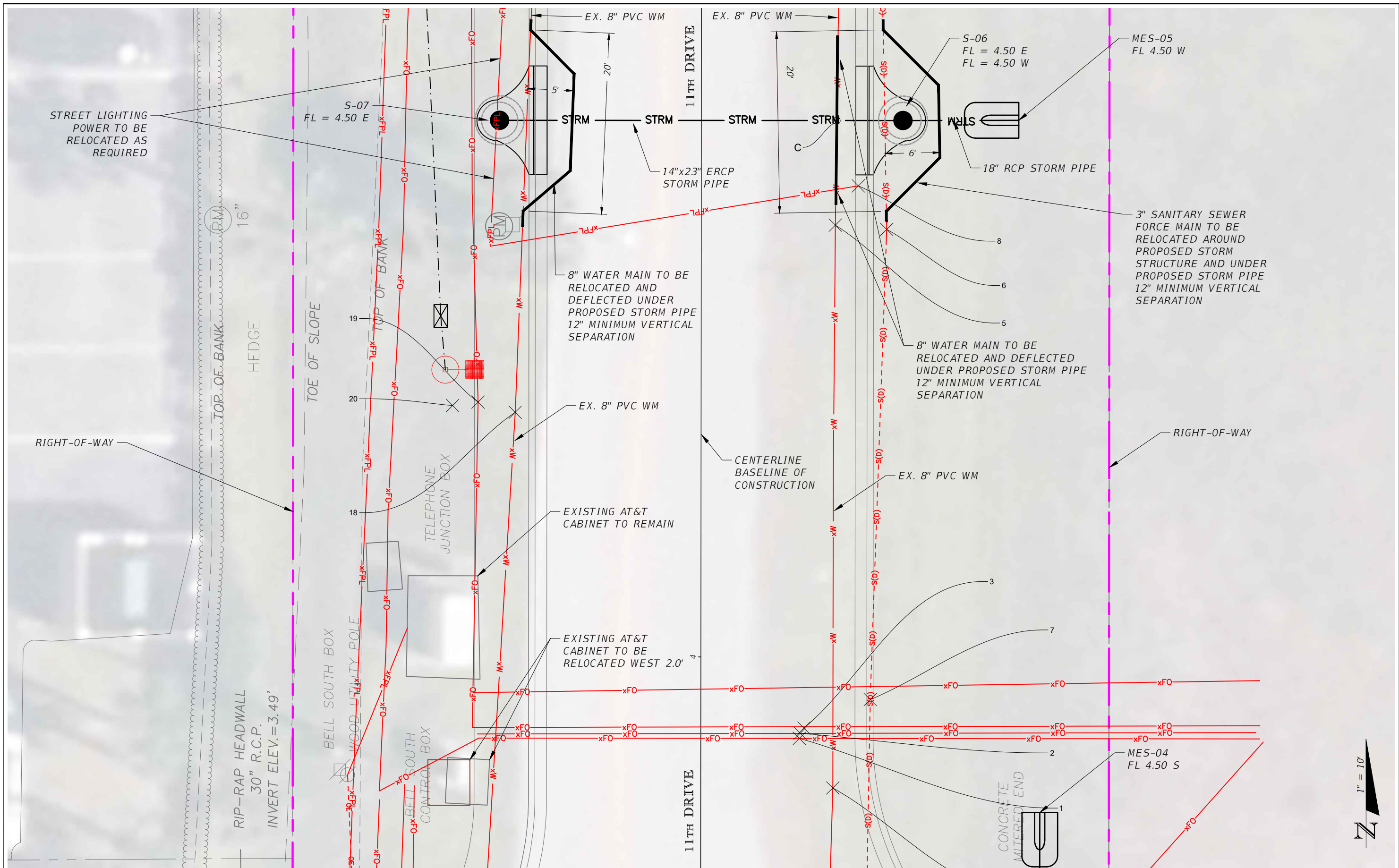
AARON STANTON, P.E.  
 P.E. LICENSE NUMBER 72460  
 MBV ENGINEERING, INC.  
 1835 20th STREET  
 VERO BEACH, FL 32960  
 CERTIFICATE OF AUTHORIZATION 3728

INDIAN RIVER COUNTY		
DEPARTMENT OF PUBLIC WORKS/ENGINEERING DIVISION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
11th DRIVE	INDIAN RIVER	IRC: 2001 FDOT: N/A

**DETAILED UTILITY ADJUSTMENT  
 PLAN 01**

SHEET NO.	UT3
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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

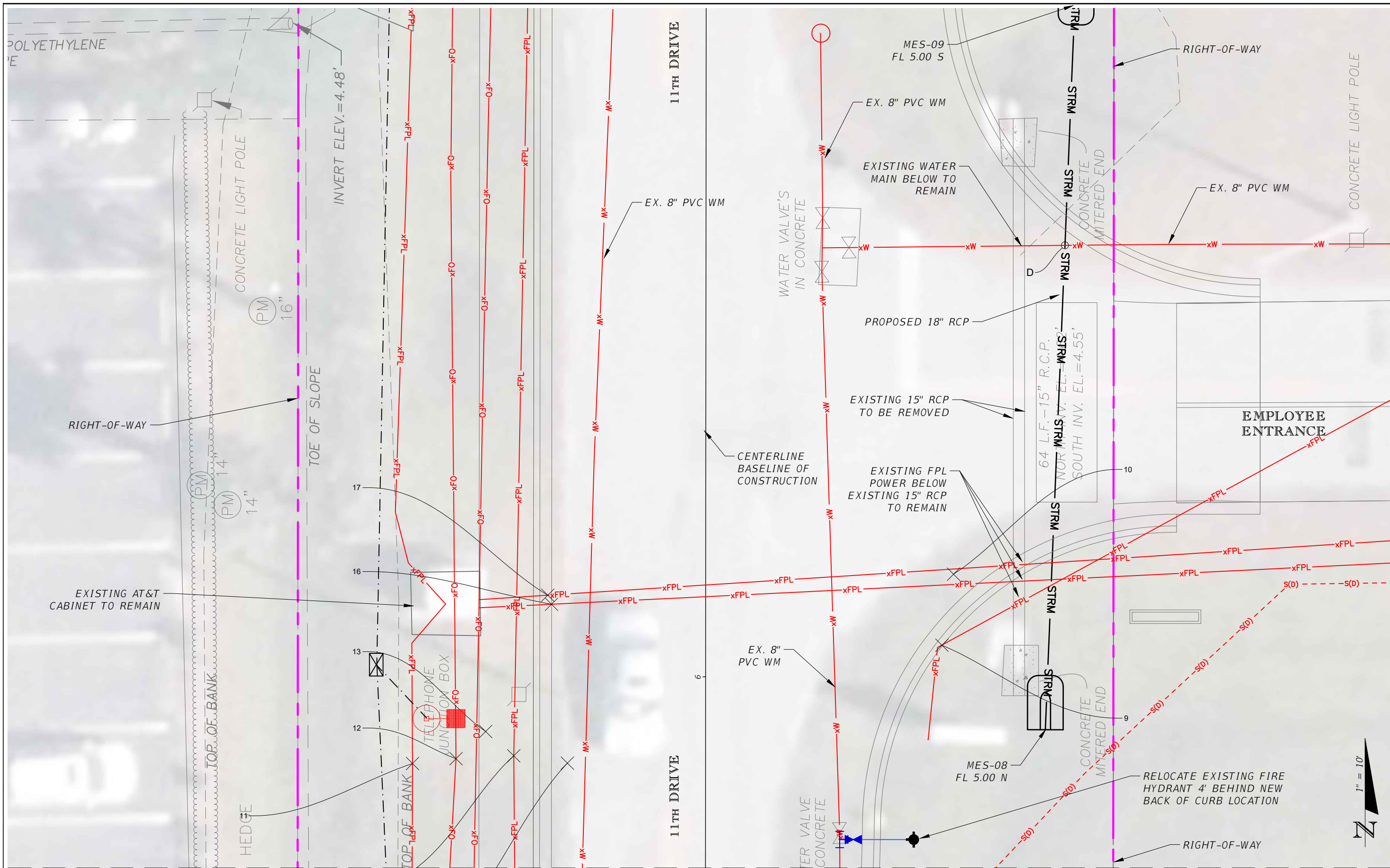
AARON STANTON, P.E.  
P.E. LICENSE NUMBER 72460  
MBV ENGINEERING, INC.  
1835 20th STREET  
VERO BEACH, FL 32960  
CERTIFICATE OF AUTHORIZATION 3728

INDIAN RIVER COUNTY		
DEPARTMENT OF PUBLIC WORKS/ENGINEERING DIVISION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
11th DRIVE	INDIAN RIVER	IRC: 2001 FDOT: N/A

**DETAILED UTILITY ADJUSTMENT  
PLAN 02**

SHEET NO.	UT4
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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

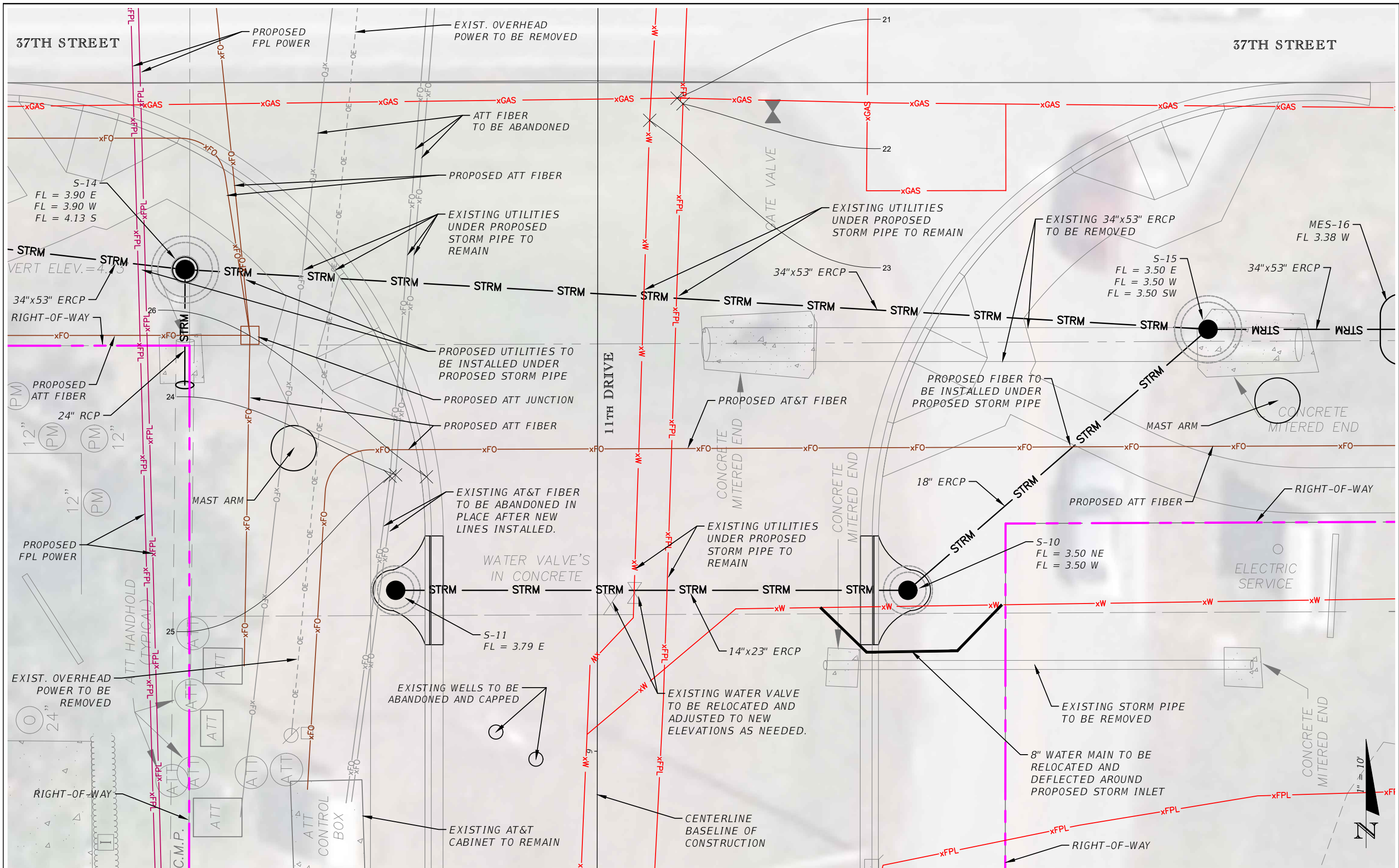
AARON STANTON, P.E.  
P.E. LICENSE NUMBER 72460  
MBV ENGINEERING, INC.  
1835 20th STREET  
VERO BEACH, FL 32960  
CERTIFICATE OF AUTHORIZATION 3728

INDIAN RIVER COUNTY		
DEPARTMENT OF PUBLIC WORKS/ENGINEERING DIVISION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
11th DRIVE	INDIAN RIVER	IRC: 2001 FDOT: N/A

**DETAILED UTILITY ADJUSTMENT  
PLAN 03**

SHEET NO.
UT5

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



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

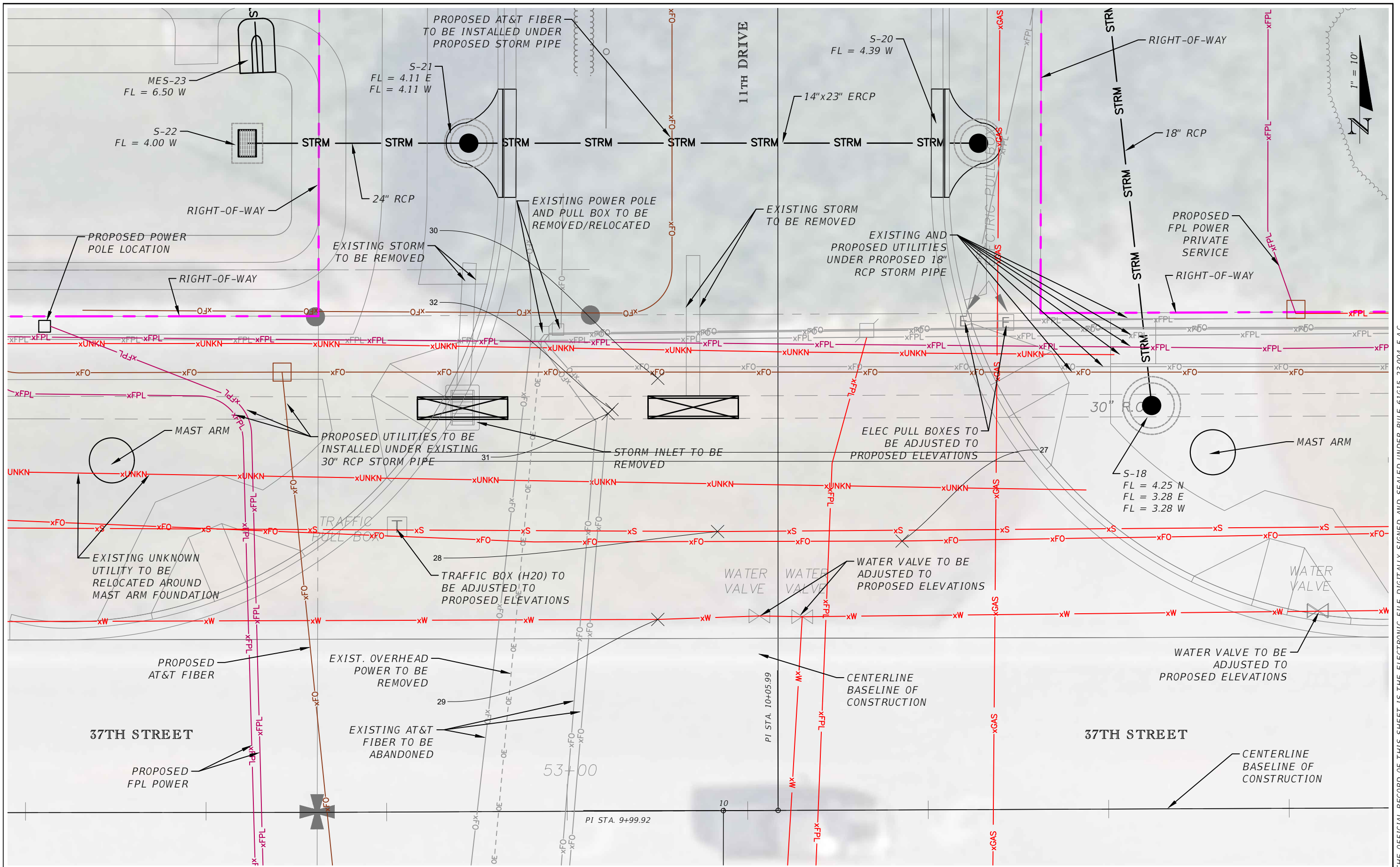
AARON STANTON, P.E.  
P.E. LICENSE NUMBER 72460  
MBV ENGINEERING, INC.  
1835 20th STREET  
VERO BEACH, FL 32960  
CERTIFICATE OF AUTHORIZATION 3728

INDIAN RIVER COUNTY		
DEPARTMENT OF PUBLIC WORKS/ENGINEERING DIVISION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
11th DRIVE	INDIAN RIVER	IRC: 2001 FDOT: N/A

**DETAILED UTILITY ADJUSTMENT  
PLAN 04**

SHEET NO.
UT6

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



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

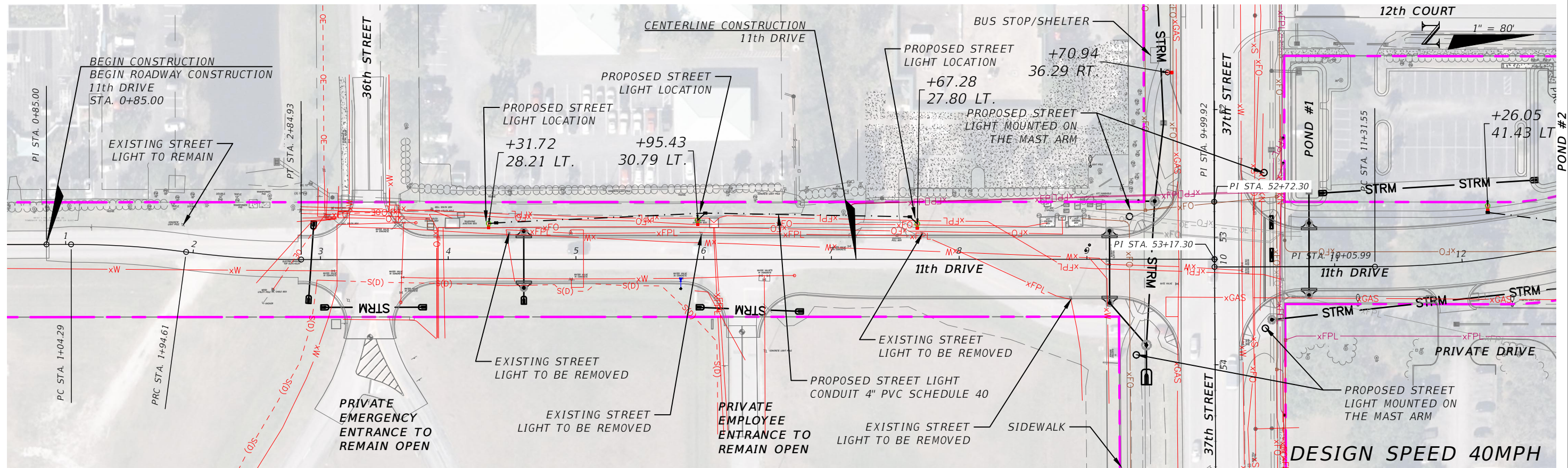
REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

AARON STANTON, P.E.  
P.E. LICENSE NUMBER 72460  
MBV ENGINEERING, INC.  
1835 20th STREET  
VERO BEACH, FL 32960  
CERTIFICATE OF AUTHORIZATION 3728

INDIAN RIVER COUNTY		
DEPARTMENT OF PUBLIC WORKS/ENGINEERING DIVISION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
11th DRIVE	INDIAN RIVER	IRC: 2001 FDOT: N/A

**DETAILED UTILITY ADJUSTMENT**  
**PLAN 05**

SHEET NO.  
UT7



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

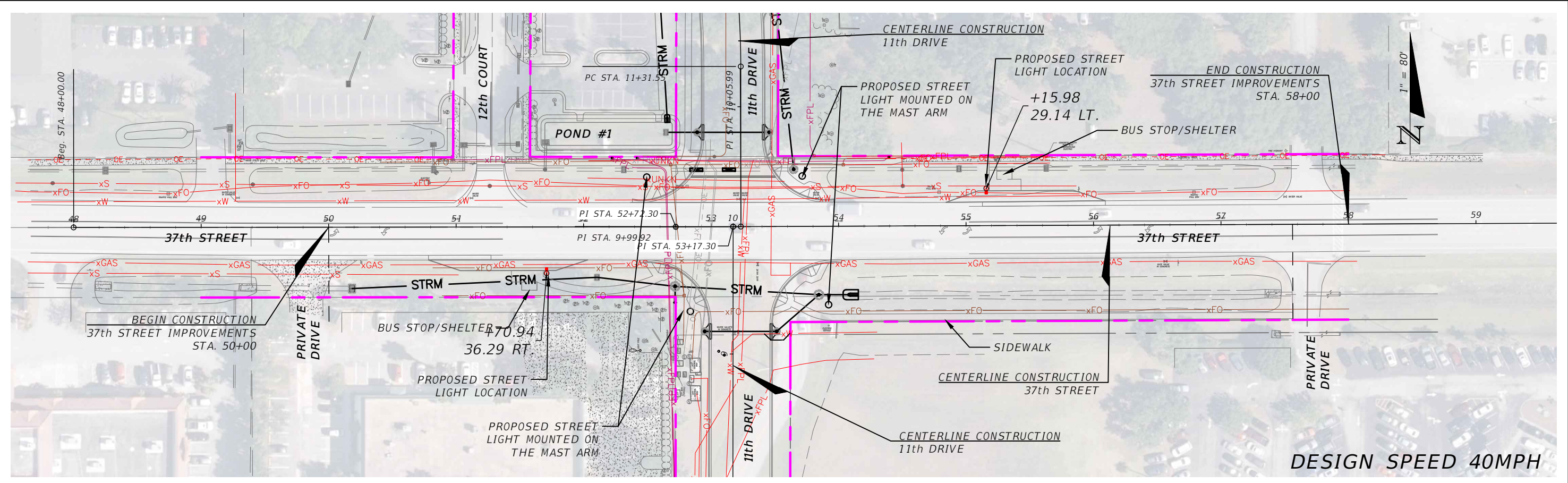
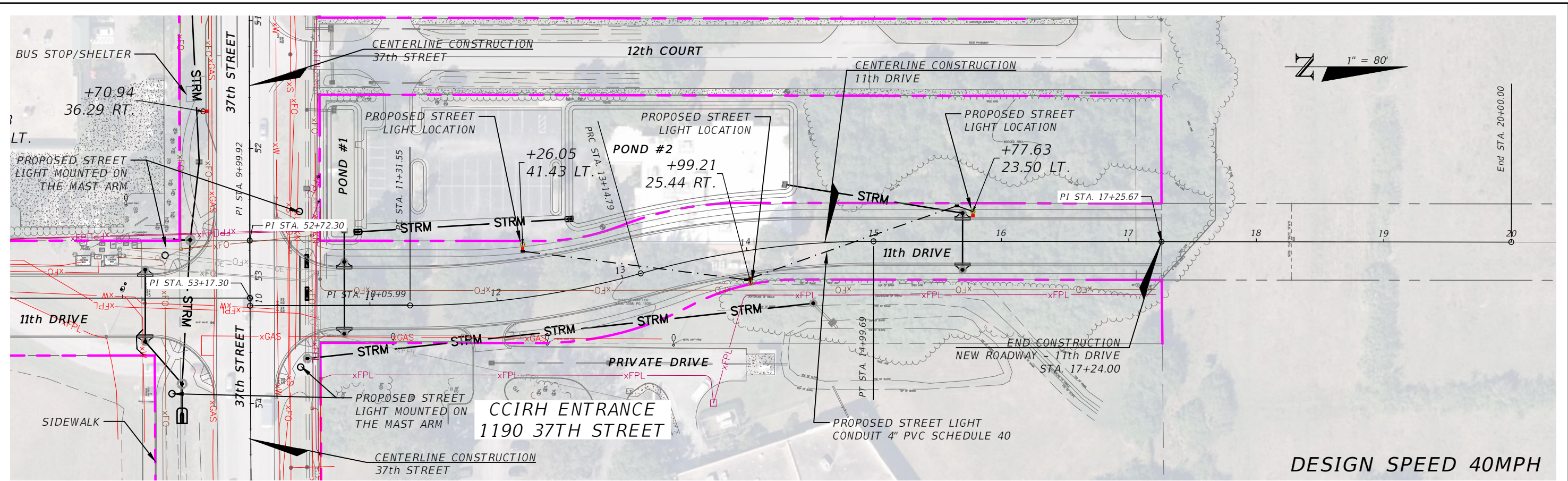
REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

AARON STANTON, P.E.  
P.E. LICENSE NUMBER 72460  
MBV ENGINEERING, INC.  
1835 20th STREET  
VERO BEACH, FL 32960  
CERTIFICATE OF AUTHORIZATION 3728

INDIAN RIVER COUNTY		
DEPARTMENT OF PUBLIC WORKS/ENGINEERING DIVISION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
11th DRIVE	INDIAN RIVER	IRC: 2001 FDOT: N/A

**STREET LIGHTING**  
**11th DRIVE - SOUTH HALF**

SHEET NO.  
UT8



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

AARON STANTON, P.E.  
P.E. LICENSE NUMBER 72460  
MBV ENGINEERING, INC.  
1835 20th STREET  
VERO BEACH, FL 32960  
CERTIFICATE OF AUTHORIZATION 3728

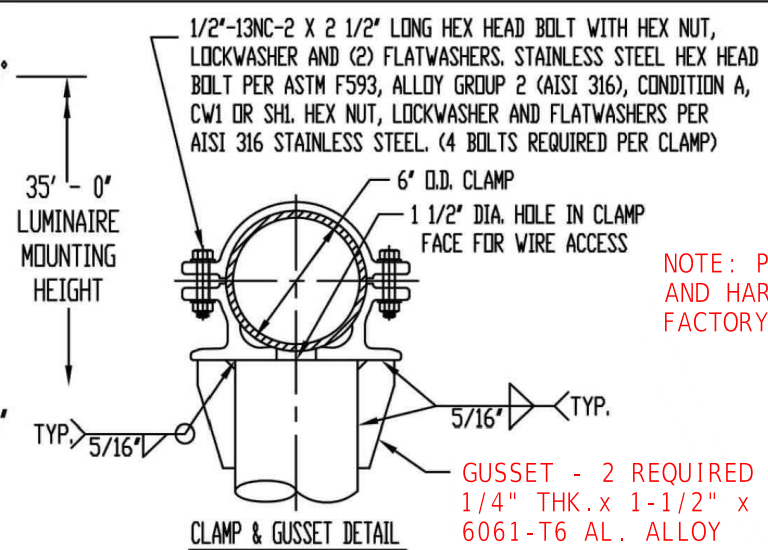
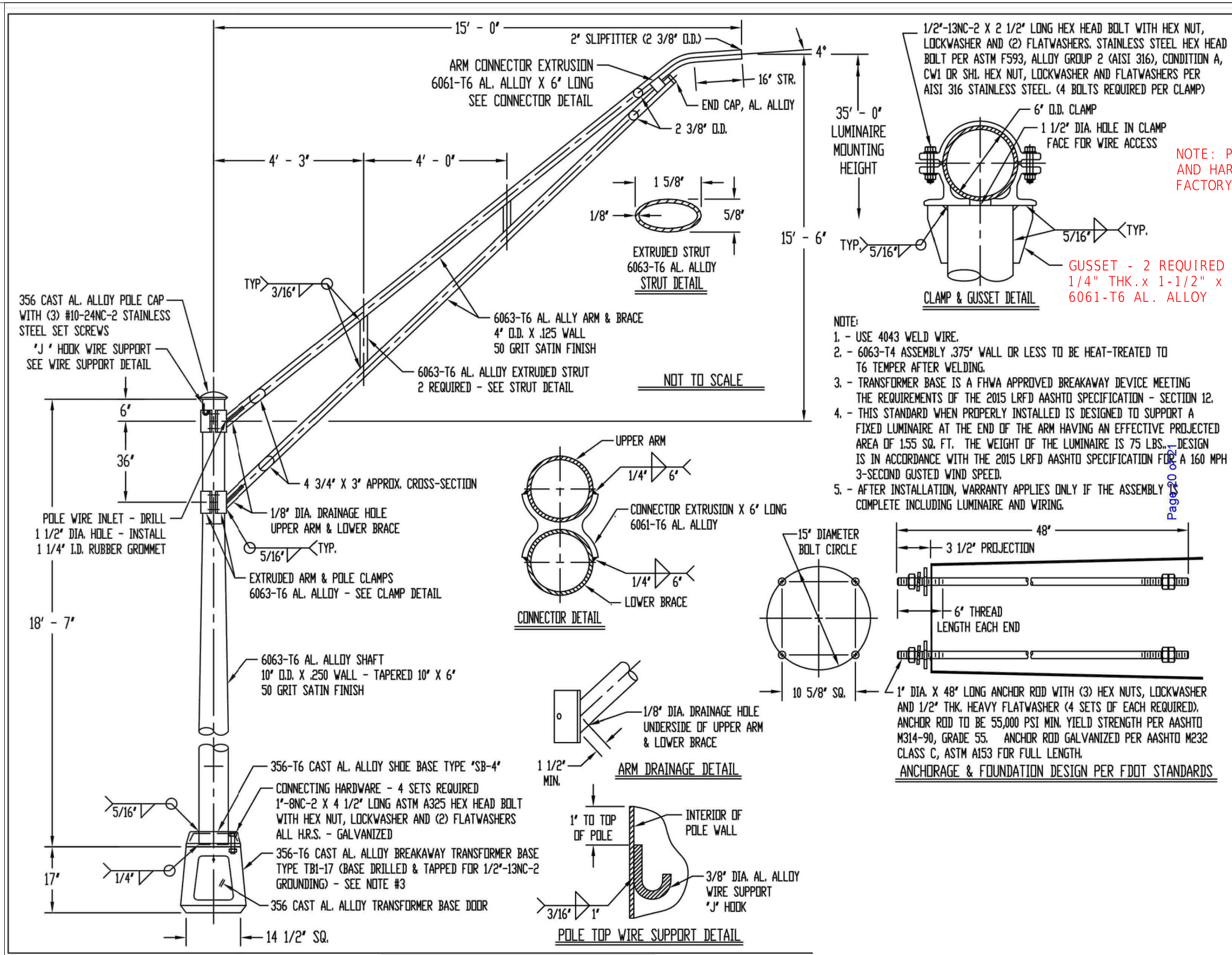
INDIAN RIVER COUNTY		
DEPARTMENT OF PUBLIC WORKS/ENGINEERING DIVISION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
11th DRIVE	INDIAN RIVER	IRC: 2001 FDOT: N/A

**STREET LIGHTING**  
**11th DRIVE - NORTH HALF**

SHEET NO.  
UT9

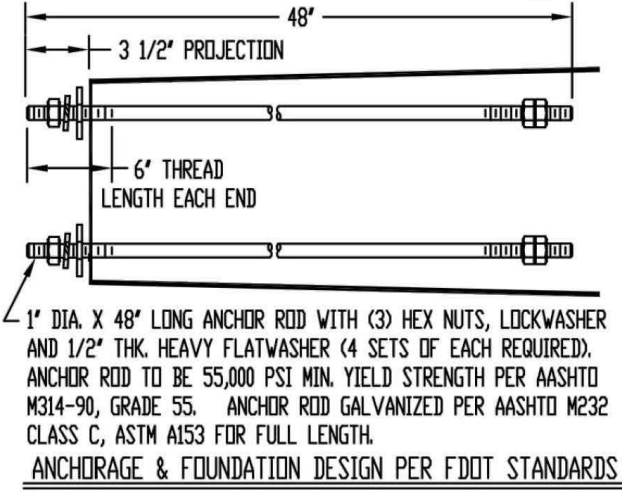
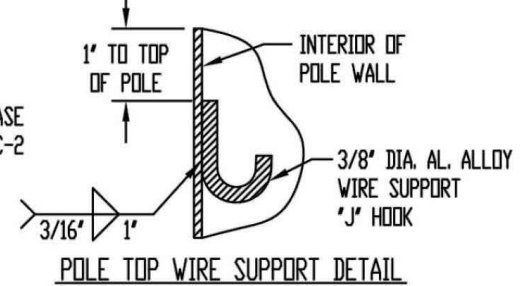
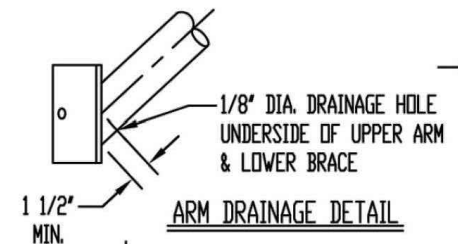
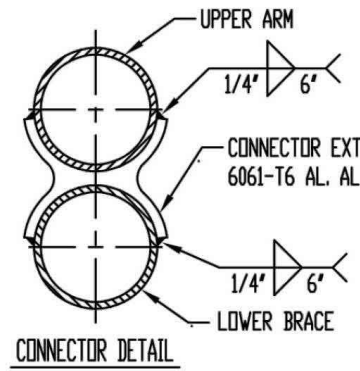
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.





NOTE: POLE CLAMPS AND HARDWARE TO BE FACTORY INSTALLED

- NOTE:
1. - USE 4043 WELD WIRE.
  2. - 6063-T4 ASSEMBLY .375" WALL OR LESS TO BE HEAT-TREATED TO T6 TEMPER AFTER WELDING.
  3. - TRANSFORMER BASE IS A FHWA APPROVED BREAKAWAY DEVICE MEETING THE REQUIREMENTS OF THE 2015 LRFD AASHTO SPECIFICATION - SECTION 12.
  4. - THIS STANDARD WHEN PROPERLY INSTALLED IS DESIGNED TO SUPPORT A FIXED LUMINAIRE AT THE END OF THE ARM HAVING AN EFFECTIVE PROJECTED AREA OF 1.55 SQ. FT. THE WEIGHT OF THE LUMINAIRE IS 75 LBS. DESIGN IS IN ACCORDANCE WITH THE 2015 LRFD AASHTO SPECIFICATION FOR A 160 MPH 3-SECOND GUSTED WIND SPEED.
  5. - AFTER INSTALLATION, WARRANTY APPLIES ONLY IF THE ASSEMBLY COMPLETE INCLUDING LUMINAIRE AND WIRING.



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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1835 20th STREET  
VERO BEACH, FL 32960  
CERTIFICATE OF AUTHORIZATION 3728

INDIAN RIVER COUNTY		
DEPARTMENT OF PUBLIC WORKS/ENGINEERING DIVISION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
11th DRIVE	INDIAN RIVER	IRC: 2001 FDOT: N/A

**STREET LIGHTING  
DETAILS**

SHEET NO.  
UT10

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Roadway

RoadFocus

RFL Cobra head (large)



Project: INDIAN RIVER COUNTY 11TH DRIVE

Location: Indian River County, FL

Cat No: RFL-145W64LED4K-G2-R2M-HVU-DMG-RC

Type:

Lumens:      Qty:

Notes:

Lumec RoadFocus LED Cobra head luminaires feature a sleek design that provides seamless replacement of existing HID luminaires. RoadFocus is available in three sizes, offers multiple lumen packages, and a complete array of optical distributions, making it an outstanding solution for all types of roadway applications. Includes Service Tag, innovative way to provide assistance throughout the life of the product.

Ordering guide

example: RFL-215W96LED4K-G2-R3M-UNV-DMG-RCD7-GY3

Series	LED module	CCT	Generation	Distribution	Voltage	Controls 4	Options	Finish
RFL	145W64LED	4K	G2	R2M	HVU	DMG	RCD7-PH9-SP2	GY3
RFL RoadFocus large	145W64LED 135W80LED 180W80LED 270W80LED 215W96LED 85W100LED <sup>4</sup> 105W100LED <sup>4</sup> 165W100LED <sup>4</sup> 225W100LED <sup>4</sup> 305W100LED <sup>4</sup> 190W112LED 241W112LED 350W112LED <sup>7</sup> 130W120LED <sup>4</sup> 200W120LED <sup>4</sup> 270W120LED <sup>4</sup> 155W140LED <sup>4</sup> 230W140LED <sup>4</sup> 310W140LED <sup>4</sup>	4K 4000K 3K 3000K 2.7K <sup>11</sup> 2700K	G2 Generation 2	Type 2 R2S Type II short (ASYM) R2M Type II Medium (ASYM) Type 3 R3S Type III short (ASYM) R3M Type III Medium (ASYM) Type 4 4 Type IV (ASYM) Type 5 5 <sup>2</sup> Type V (SYMM)	UNV 120-277V HVU 347-480V	DALI <sup>1</sup> Digitally addressable lighting interface DMG <sup>6</sup> 0-10V SRD <sup>5</sup> Sensor ready driver, standard configuration SRD1 <sup>5</sup> Sensor ready driver, alternate configuration	API Factory installed NEMA label, ANSI C136.15-2015 compliant FAWS <sup>7</sup> Field adjustable wattage selector HS House Side Shield, 1 per 16 LED light engine NRC <sup>8</sup> No receptacle NYBC 4 - position terminal block PH8 <sup>10</sup> Twist-lock photoelectric cell, UNV (120-277VAC) PH8/347 <sup>10,13</sup> Twist-lock photoelectric cell (347VAC) PH8/480 <sup>10,13</sup> Twist-lock photoelectric cell (480VAC) PHXL <sup>1,10</sup> Twist-lock photoelectric cell, extended life, UNV (120-277VAC) PH9 <sup>14</sup> Shorting cap RCD <sup>14</sup> Receptacle for twist-lock photocell or shorting cap, 5-pin (optional) RCD7 <sup>14</sup> Receptacle for twist-lock photocell or shorting cap, 7-pin (standard) SP2 20kV / 10kA Surge protector TLRSR <sup>4</sup> SR receptacle	BK Black BR Bronze GY3 Gray WH White

- <sup>1</sup> Not available with HVU.
- <sup>2</sup> Not available with HS option.
- <sup>3</sup> Use of photoelectric cell or shorting cap is required to ensure proper illumination.
- <sup>4</sup> Select either DALI or DMG or SRD or SRD1 mandatory option.
- <sup>5</sup> Please note this integrated feature come standard with RoadFocus.
- <sup>6</sup> Only available with SRD or SRD1 Driver Options.
- <sup>7</sup> Only available with DMG Driver Options
- <sup>8</sup> Not available with PH8, PH8/347, PH8/480, PHXL, PH9, DALI, SRD or SRD1 Driver Options.
- <sup>9</sup> Not available with SRD Driver Options.
- <sup>10</sup> Either RCD or RCD7 must be selected for this option.
- <sup>11</sup> Extended lead-time may apply. Consult factory.
- <sup>12</sup> FAWS table accuracy +/- 15% on these models.
- <sup>13</sup> Not available with UNV.
- <sup>14</sup> Only available with R2M or R3M distributions.

Accessories (must be ordered as separate line items - quickly and easily installed in the field)

Interact City Connector node \*

\*Contact the factory for additional support when connected lighting or additional services are desired.

REVISIONS				AARON STANTON, P.E. P.E. LICENSE NUMBER 72460 MBV ENGINEERING, INC. 1835 20th STREET VERO BEACH, FL 32960 CERTIFICATE OF AUTHORIZATION 3728	INDIAN RIVER COUNTY DEPARTMENT OF PUBLIC WORKS/ENGINEERING DIVISION			SHEET NO.  UT 11
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
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