INDIAN RIVER COUNTY BOARD OF COUNTY COMMISSIONERS

COMPONENTS OF CONTRACT PLANS SET: ROADWAY PLANS: 1-188 SIGNING AND PAVEMENT MARKING PLANS: S1-S46 SIGNALIZATION PLANS: T1-T9 20 - INCH WATERMAIN RELOCATION UCP#4144

INDEX OF ROADWAY PLANS

SHEET NO.	SHEET DESCRIPTION
1	KEY SHEET
2	SIGNATURE SHEET
3-4	SUMMARY OF QUANTITIES AND PAY ITEMS
5-7	TYPICAL SECTIONS
8-19	TYPICAL DETAILS
20	GENERAL NOTES
21-25	PROJECT LAYOUT SHEETS - CONTROL POINTS
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43-44	STORM WATER POLLUTION PREVENTION PLANS
45-78	58TH AVENUE PLAN & PROFILE SHEETS
79-82	69TH STREET PLAN & PROFILE SHEETS
83-99	DETAILED INTERSECTION PLAN SHEETS
100-169	58TH AVENUE SECTIONS
170-179	69TH STREET SECTIONS
180-188	DRAINAGE PLAN AND PROFILES

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

58th AVENUE L= 17,678.53' 69th STREET L= 1,841.78'

GOVERNING DESIGN STANDARDS: Florida Department of Transportation, FY2017-18 Design Standards eBook (DSeB) and applicable Design Standards Revisions (DSRs) at the

following website: http://www.fdot.gov/roadway/DesignStandards/Standards.shtm

APPLICABLE DSRs:

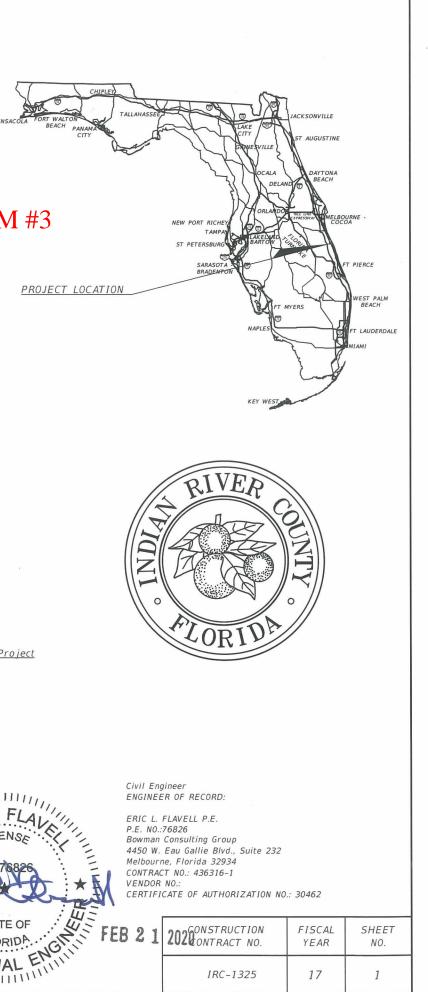
GOVERNING STANDARD SPECIFICATIONS: Florida Department of Transportation, JAN, 2017 Standard Specifications for Road and Bridge Construction at the following website:http://www.fdot.gov/programmanagement/Implemented/SpecBooks

CONTRACT PLANS

FDOT FPID 436416-1-54-01

INDIAN RIVER COUNTY (88) *PROJECT #1325*

58th AVENUE (57th STREET TO 85TH STREET) FULL DEPTH RECLAMATION PROJECT



ADDENDUM #3



ŝ.	item N.o.	Civil Drawings	Elsali	(Opensile)	link Price	. Amount
	101-1	MOBILIZATION	٤S	1		, minan
	102-1	MAINTENANCE OF TRAFFIC	LS	1		
	104-1	PREVENTION, CONTROL AND ABATEMENT OF	LS	1		
	110-1-1	CLEARING & GRUBBING	LS	1		
	110-7-1	MAILBOX RELOCATION	EA	37		
	120-1	REGULAR EXCAVATION	CY	6.700		
	120-1A		SF	5,000		
	120-12	BORROW EXCAVATION (RECLAINED FDR)	Сү	6,000		
	120-2		CY	4,150		
	121-70			~		
		FLOWABLE FILL (NON-EXCAVATABLE) TYPE B STABILIZATION, 3' SHOULDER & WIDENING	CY CY	200	\sim	\wedge
	160-4	(LBR 40), 12"	SY	25,000	<u> </u>	<u> </u>
	285-709	OPTIONAL BASE GROUP 9 (LBR 100) LIMEBOCK RECLAIMED ASPHALT BASE COURSE (FULL DEPTH)	Š	1.400	\sim	· ·· ··
$\langle $	283-71	RECLAIMATION) 12" ASPHALT EMULSION TYPE CSS-1h - PAYMENT WILL	ST	72,000		
(300-1	BE BASED ON ACTUAL QUANTITY CEMENT TYPE 1 OR TYPE 2 - PAYMENT WILL BE	GAL	260,000		\rightarrow
2	300-2	BASED ON ACTUAL QUANTITY	TN	1,400	Ľ	
V	327-70-8	MILL EXISTING ASPHALT (1 5" AVERAGE DEPTH)	SY	3,000		
	334-1-13A	TYPE SP . 12 5 ASPHALTIC CONCRETE (2" THICK)	-9X	86.000		
	334-1-13B	TYPE SP - 12 5 ASPHALTIC CONCRETE OVERBUILD VARIABLE THICKNESS)	癶	900	\square	
	334-1-13C	TYPE SP - 12 5, ASPHALTIC CONCRETE DRIVEWAY. (1-1/2*) REMOVE AND REPLACE	SY	400		
	337-7-82	TYPE F C - 9 5 ASPHALTIC CONCRETE (1" THICK)	SY	89,000		
	400-4-2A	CONCRETE HEADWALL (INCLUDE STEEL)	EA	1		
	425-2-14	MANHOLE ALT A, 4', P-7, <10'	EA	3		
	425-3-81	JUNCTION BOX, DRAINAGE, SPECIAL, <10, 6'X10	FA	1	\wedge	
	425-3-81A	JUNCTION STRUCTURE, TYPE H, <10"	EA	1		
	425-5	MANHOLE ADJUSTMENT	€A			
	425-5A	VAULT ADJUSTMENT	EA	9		
	425-6	VALVE 80X ADJUSTMENT	EA	79		
	425-6A	FIRE HYDRANT ADJUSTMENT	EA	4		
	425-88	FIRE HYDRANT RELOCATION	EA.	6		
	425-15-21	DITCH BOTTOM INLET, TYPE C,<10'	EA	3	$\sqrt{\lambda}$	
	430-175-112	PIPE CULVERT, RCP, ROUND, 12*, S/CD	N.E.	<u>_55</u>		
	-	PIPE CULVERT, CMP, ROUND, 12*, S/CD	LF	20		
		PIPE CULVERT, CMP, ROUND, 15", S/CD	LF	185		
		PIPE CULVERT, RCP, ELLIPTICAL 23"X14",S/CD	LF	84		
		PIPE CULVERT, RCP, ROUND 24", S/CD	LF	327		
		PIPE CULVERT, CMP,ROUND,24",S/CD	LF	10		
	430-175-148		LF	155		
	430-175-148	PIPE CULVERT, RCP, ROUND, 48" S/CD PIPE CULVERT, RCP, ROUND, 52" S/CD (FIELD				
		VERIFY) PIPE CULVERT RCP. ELLIPTICAL 76" x 48" S/CD	LF	10		
	430-175-276	(FIELD VERIFY)	LF	10		
	430-982-121	MITERED END SECTION, RCP, ROUND, 12"	EA	2		
		MITERED END SECTION, CMP, ROUND, 15"	EA	6		
	430-982-129	MITERED END SECTION, CMP, ROUND, 24"	EA	1		
		MITERED END SECTION, RCP, ROUND, 24*	∳	~		
	430-982-625	MITERED END SECTION, RCP, ELLIPTICAL, 23"X 14"	EA	4		<u> </u>
	520-1-10	CONCRETE CURB & GUTTER, TYPE F	ጉ	350		
	0520-2-1	CONCRETE CURB, TYPE A	LF	40		
	522-1	CONCRETE, 6" THICK, FIBER REINFORCED SIDEWALK, REMOVE & REPLACE	SY	70		

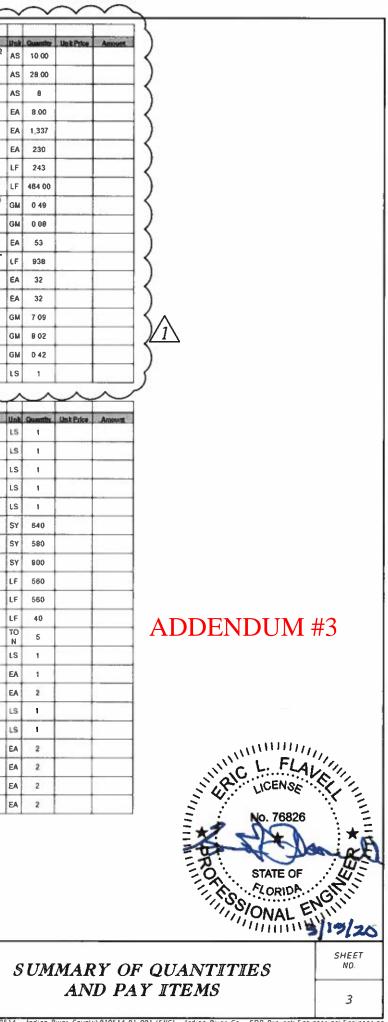
	Civil Drawings				
m No.	Description	Unk	Quantity	Unit Price	Amount
522-1A	HC RAMP, 6" THICK, REMOVE AND REPLACE	SF	240		
522-2	DRIVEWAY CONCRETE 8" THICK, REMOVE AND REPLACE	SF	1,550		
522-4	BUS SHELTER PAD - CONCRETE, 8", REINFORCED	SF	320		
527-2	DETECTABLE WARNING STRIPS	SF	265	$\sqrt{2}$	\backslash
530-3-9A	RIP RAP, RUBBLE, BANK AND SHORE	CY	60		
536-1-1A	GUARDRAIL, LONG STEEL POSTS WITH A C.	tr	1,690		
536-85-24	GUARDRAIL END ANCHORAGE ASSEMBLY PARALLEL WITH A C PAVEMENT	EA	6		
550-10-231	FENCE, TYPE B WITH BARBED WIRE	LF	75		
570-1-2	PERFORMANCE TURF - SOD (BAHIA, OR MATCH EXIST)	SY	44,500		
630-2-11A	CONDUIT (INCLUDES 2-2" DIA HDPE), F&, OPEN TRENCH	LF	15,000		
630-2-12A	CONDUIT (INCLUDES 2-2" DIA HDPE), F&I DIRECTIONAL DRILL	LF	2,200		
635-2-12A	PULL BOX, F&I, WITH 6" FIBER CONCRETE COLLAR	EA	27		
706-3	REFLECTIVE PAVEMENT MARKERS (BLUE/BLUE)	EA	22		

· PAY ITEM FOOT NOTES: SEE SHEET 4

	Signal Drawings	1		T	
Item No.	Description	Uak	Quantity	Unit Price	Amount
630-2-11	CONDUIT, F&I, OPEN TRENCH	LF	28	2	Contra Mellon
630-2-14	CONDUIT, F&I, ABOVEGROUND	LF	25		
632-7-1	SIGNAL CABLE - NEW OR RECONSTRUCTED INTERSECTION, FURNISH & INSTALL	PI	1		
633-2-31	FIBER OPTIC CONNECTION, INSTALL, SPLICE	EA	12		
633-3-11	FIBER OPTIC CONNECTION HARDWARE, F&I, SPLICE ENCLOSURE	EA	1		
633-3-15	FIBER OPTIC CONNECTION HARDWARE, F&I, PRETERMINATED PATCH PANEL	EA	1		
634-4-153	SPAN WIRE ASSEMBLY, F&I, TWO POINT, BOX	ы	1		1
635-2-11	PULL & SPLICE BOX, F&I, 13'X24' COVER SIZE	EA	4		
635-2-12	PULL & SPLICE BOX, F&I, 24° X 38" COVER SIZE	EA	1		
639-1-122	ELECTRICAL POWER SERVICE, F&J. UG, METER PURCHASED BY CONTRACTOR	AS	1		
639-2-1	ELECTRICAL SERVICE WIRE, FURNISH & INSTALL	LF	100		
641-2-18	PRESTRESSED CONCRETE POLE, F&I, TYPE P-VIII	EA	4		
641-2-80	PRESTRESSED CONCRETE POLE, COMPLETE REMOVAL	EA	2		
650-1-24	TRAFFIC SIGNAL, FURNISH & INSTALL POLYCARBONATE WIALUM TOP, 3 SECTION, 1 WAY	AS	4		
650-1-29	TRAFFIC SIGNAL, FURNISH & INSTALL POLYCARBONATE W ALUMIN, 5 SECTION CLUSTER,	AS	4		
660-4-11	VEHICLE DETECTION SYSTEM- VIDEO, F&I CABINET EQUIPMENT	EA	1		
660-4-12	VEHICLE DETECTION SYSTEM-VIDEO, F&I ABOVE GROUND EQUIPMENT	EA	4		
670-5-111	TRAFFIC CONTROLLER ASSEMBLY, F&	AS	1		
684-1-1	MANAGED FIELD EITHERNET SWITCH, FURNISH &	EA	1		
700-5-22	INTERNALLY ILLUMINATED SIGN, F&I, OVERHEAD MOUNT, 12-18 SF	EA	4		
715-5-31	LUMINAIRE & BRACKET ARM, F&I, ALUMINUM	EA	4		

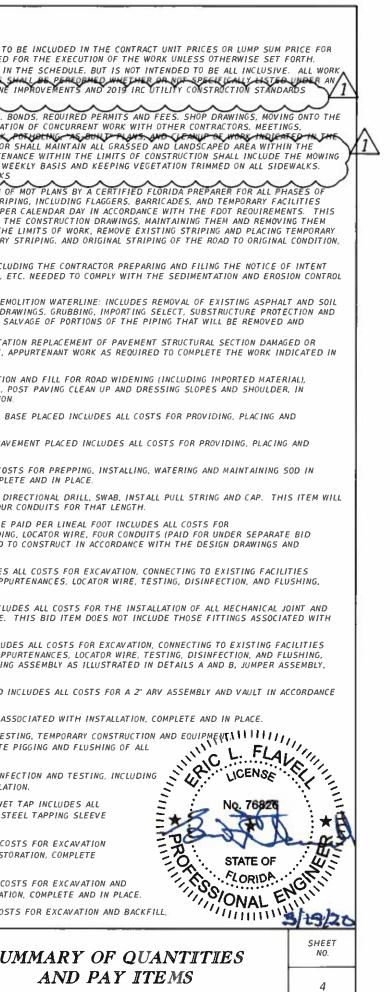
		~	_
	Signing and Markings Drawings		
700-1-11	SINGLE POST SIGN, F&I GROUND MOUNT, UP TO 12		Que
	SF	AS	10
700-1-50	SINGLE POST SIGN, RELOCATE	AS	28
700-1-60	SINGLE POST SIGN, REMOVE	AS	8
700-3-601	SIGN PANEL, REMOVE, UP TO 12 SF	EA	8.(
706-3	RETRO-REFLECTIVE PAVEMENT MARKERS	EA	1,3
706-3	RETRO-REFLECTIVE PAVEMENT MARKERS (MR)	EA	23
711-11-123	THERMOPLASTIC, STANDARD, WHITE, SOLID, FOR CROSSWALK AND ROUNDABOUT	LF	24
711-11-125	THERMOPLASTIC, STANDARD, WHITE, SOLID, M FOR STOP LINE AND CROSSWALK	ĻF	464
711-11-141	THERMOPLASTIC, STANDARD, WHITE, 2-4 DO TED GUIDELINE/6-10 GAP EXTENSION, 6*	GM	0.
711-11-241	THERMOPLASTIC, STANDARD, YELLOW, 2-4 DOTTED GUIDELINE/8-10 GAP EXTENSION, 8	GM	01
711-11-170	THERMOPLASTIC, STANDARD WHITE ARROW	EA	5:
711-11-224	THERMOPLASTIC, STANDARD YELLOW, SOLID 18" FOR DIAGONAL OR CHEVRON	LF	93
711-14-160	THERMOPLASTIC, PREFORMED, WHITE, MESSIGE	EA	3
711-14-170	THERMOPLASTIC, PREFORMED, WHITE, ARROW	EA	33
711-16-101	THERMOPLASTIC. STANDARD-OTHER SURFACES, WHITE, SOLID, 6"	GM	7(
711-16-201	THERMOPLASTIC, STANDARD OTHER SURFACES,	GM	8 (
711-16-231	THERMOPLASTIC, STANDARD-OTHER SURFACES,	GM	0.4
999-1	RECORD DRAWINGS/AS-BUILTS	LS	1
	· (
the second second second	20 Inch Water Main Relocation	\square	-
tentio.	Description	Unk	Que
101-1A	Mobilization	LS	1
102-1A	Maintenance of Traffic	LS	1
104-1A	Erosian Control	LS	1
110-1-1A	Clearing and Grubbing	LS	1
120-18	Excavation and Embankment	LS	1.1
285-706		+	
	Optional Base Course 8" Limerock (LBR = 100)	SY	64
334-1-13D	Optional Base Course 8" Limerock (LBR = 100) Superpave Asphalt Concrete, 2" SP 12.5	SY SY	64 58
334-1-13D 570-1-2A			-
	Superpave Asphalt Concrete, 2" SP 12 5	SY	58
570-1-2A	Superpave Asphalt Concrete, 2° SP 12.5 Sod and Site Restoration	SY SY	58 90
570-1-2A 630-2-11B	Superpave Asphalt Concrete, 2° SP 12.5 Sod and Site Restoration 4 - 2° Conduits	SY SY LF	58 90 56
570-1-2A 630-2-11B 1050-42-224A	Superpave Asphalt Concrete, 2" SP 12.5 Sod and Site Restoration 4 - 2" Conduits Furnish and Install 24" HDPE HDD	SY SY LF LF LF TO	58 90 56
570-1-2A 630-2-11B 1050-42-224A 1050-11-425A	Superpave Asphalt Concrete, 2" SP 12.5 Sod and Site Restoration 4 - 2" Conduits Furnish and Install 24" HDPE HDD Furnish and Install 20" DIP Water Main	SY SY LF LF LF	58 90 56 56 40
570-1-2A 630-2-11B 1050-42-224A 1050-11-425A 1055-11-4A	Superpave Asphalt Concrete, 2° SP 12.5 Sod and Site Restoration 4 - 2° Conduits Furnish and Install 24° HDPE HDD Furnish and Install 20° DIP Water Main Furnish and Install Fittings and Appurtenances	SY SY LF LF LF TO N	58 90 56 56 40 5
570-1-2A 630-2-11B 1050-42-224A 1050-11-425A 1055-11-4A 1080-11-404A	Superpave Asphalt Concrete, 2" SP 12 5 Sod and Site Restoration 4 - 2" Conduits Furnish and Install 24" HDPE HDD Furnish and Install 20" DIP Water Main Furnish and Install Fittings and Appurtenances Furnish, Install and Remove 12" Bypass Assembly	SY SY LF LF LF TO N LS	58 90 56 56 40 5 1
570-1-2A 630-2-11B 1050-42-224A 1050-11-425A 1055-11-4A 1080-11-404A 1080-11-506A	Superpave Asphalt Concrete, 2" SP 12.5 Sod and Sile Restoration 4 - 2" Conduits Furnish and Install 24" HDPE HDD Furnish and Install 20" DIP Water Main Furnish and Install Fittings and Appurtenances Furnish, Install and Remove 12" Bypass Assembly Furnish and Install Air Release Valve and Vault	SY SY LF LF LF TO N LS EA	58 90 56 56 41 5 1
570-1-2A 630-2-11B 1050-42-224A 1050-11-425A 1055-11-4A 1080-11-404A 1080-11-506A 1080-11-512A	Superpave Asphalt Concrete, 2° SP 12.5 Sod and Site Restoration 4 - 2° Conduits Furnish and Install 24° HDPE HDD Furnish and Install 20° DIP Water Main Furnish and Install Fittings and Appurtenances Furnish, Install and Remove 12° Bypass Assembly Furnish and Install Air Release Valve and Vault Sample Points	SY SY LF LF LF TO N LS EA EA	588 900 566 566 410 55 1 1 1 2
570-1-2A 630-2-11B 1050-42-224A 1050-11-425A 1055-11-4A 1080-11-404A 1080-11-506A 1080-11-512B	Superpave Asphalt Concrete, 2" SP 12 5 Sod and Site Restoration 4 - 2" Conduits Furnish and Install 24" HDPE HDD Furnish and Install 20" DIP Water Main Furnish and Install Fittings and Appurtenances Furnish, Install and Remove 12" Bypass Assembly Furnish and Install Air Release Valve and Vault Sample Points Pigging and Flushing	SY SY LF LF LF TO N LS EA EA LS	588 900 566 566 410 556 410 55 11 11 22 1
570-1-2A 630-2-11B 1050-42-224A 1050-11-425A 1055-11-4A 1080-11-404A 1080-11-506A 1080-11-512B 1080-11-512C	Superpave Asphalt Concrete, 2° SP 12.5 Sod and Sile Restoration 4 - 2° Conduits Furnish and Install 24° HDPE HDD Furnish and Install 20° DIP Water Main Furnish and Install Fittings and Appurtenances Furnish, Install and Remove 12° Bypass Assembly Furnish and Install Air Release Valve and Vault Sample Points Pigging and Flushing Disinfection and Testing	SY SY LF LF LF TO N LS EA EA LS LS	588 900 566 566 411 55 11 11 12 2 1 1
570-1-2A 630-2-11B 1050-42-224A 1050-11-425A 1055-11-4A 1080-11-404A 1080-11-506A 1080-11-512B 1080-11-512B 1080-11-512C 1080-21-120A	Superpave Asphalt Concrete, 2" SP 12.5 Sod and Sile Restoration 4 - 2" Conduits Furnish and Install 24" HDPE HDD Furnish and Install 20" DIP Water Main Furnish and Install 20" DIP Water Main Furnish and Install Air Release Valve and Vault Sample Points Pigging and Flushing Disinfection and Testing Furnish and Install 20" X 12" Wet Tap Assembly Furnish and Install 20" X 12" Wet Tap Assembly Furnish and Install 20" X 12" Wet Tap Assembly	SY SY LF LF LF TO N LS EA EA LS LS EA EA	588 900 566 566 410 56 410 56 410 11 11 22 2
570-1-2A 630-2-11B 1050-42-224A 1050-11-425A 1055-11-4A 1080-11-404A 1080-11-506A 1080-11-512A 1080-11-512B 1080-11-512C 1080-23-120A	Superpave Asphalt Concrete, 2" SP 12.5 Sod and Site Restoration 4 - 2" Conduits Furnish and Install 24" HDPE HDD Furnish and Install 20" DIP Water Main Furnish and Install 20" DIP Water Main Furnish and Install 7 Points and Appurtenances Furnish, Install and Remove 12" Bypass Assembly Furnish and Install Air Release Valve and Vault Sample Points Pigging and Flushing Disinfection and Testing Furnish and Install 20" X 12" Wet Tap Assembly	SY SY LF LF LF LF S LS EA EA LS EA	588 900 566 566 441 55 11 11 22 11 11 22

	REV	ISIONS		ERIC L. FLAVELL. P.E.				
DATE 2/19/20	DESCRIPTION RESPONSE TO COUNTY COMMENTS	DATE DESCRIPTION		P.E. LICENSE NUMBER 76826 BOWMAN CONSULTING GROUP		COUNTY /enginering division	SUM	
3/19/20	RESPONSE TO COUNTY COMMENTS			4450 W. EAU GALLIE BLVD		COUNTY	FINANCIAL PROJECT ID	0011
	_			MELBOURNE, FL 32934 CERTIFICATE OF AUTHORIZATION 30462	CR-613 58th AVE	INDIAN RIVER	IRC: 1325 FD0T:436416-1-54-01	Concerns and a second
1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 -	20 Store Strate Man 201					Vincente De Pena	3/19/2020 11:50:40 AM	P:\010514 - Indian



3/19/2020 11:50:40 AM P:\010514 - Indian River County\010514-03-001 (ENG) - Indian River Co - FDR Project\Engineering\Engineering\Engineering

	PAY I	TEM F	OOTNOTES				B	ID ITEM DESCRIP	TIONS FO	R 20" WATER N	AIN RELOCATIO	N
	101-1		MOBILIZATION: THE LUMP SUM PRICE PERMITS AND FEES, PREPARATION AI SUBMITTALS, MOVING ONTO THE JOB (SUPERVISION, COORDINATION OF CONCU SURVEY MONUMENTS, SUPERATION OF CONCU SURVEY MONUMENTS, SUPERATION OF CONCU SURVEY MONUMENTS, SUPERATION THE LANDSCAPED AREA WITHIN THE PROJECT. SUCH MAINTENANCE WITHIN THE GRASSED AREA WITHIN THE RIGHT-OF- VEGETATION TRIMMED ON ALL SIDEWALK	ND SUBMI MOBILIZATI RRENT WO CONTRACT CONTRACT CT LIMITS THE LIMITS WAY, REMO	TAL OF FDEP NOTICE C TON, MOVING OFF THE JO RK WITH OTHER CONTRACT TABLE OF WORK, FOLHON DOCUMENTS. THE CONTRA IN A SATISFACTORY COND G OF CONSTRUCTION SHALL VAL OF ALL TRASH AND D	IF INTENT (NOI), SHOP B (DEMOBILIZATION), PR FORS, MEETINGS, SURVEY UG, DEWAREATING, AS, BU CTOR SHALL MAINTAIN AL ITION UNTIL FINAL ACC INCLUDE THE MOWING (EBRIS ON A WEEKLY BASI	DRAWINGS AND DRAWINGS AND OJECT PHASING, 'ING, RESETTING L GRASSED AND PTANCE OF THE FF ALL EXISTING IS AND KEEPING	SENERAL DESCRIPTIONS OF T PAYMENT FOR CONFORMING TO THE ITEMS OF WORK BID AND THE FOLLOWING SETS FORTH SPECIFICALLY SHOWN CALLED TEM DESCRIPTION. ALL WORK INCLUDING NOTES. DRAINAGE 101-1A. MOBILIZATION: TH JOB (MOBILIZATION), MOVIN	D ALL THE PROV D SHALL INCLUD A GENERAL DES D FOR OR INDIC SMALL DE IN C AND SPECIFICA HE LUMP SUM PH	ISIONS OF THE CONTRAC E ALL COSTS FOR LABOR CRIPTION OF THE TYPE ATED IN THE WITH SEF TIONS. RICE PAID INCLUDES AL	CT DOCUMENTS SHALL BE R, MATERIALS, AND EQUIPM OF WORK FOR EACH BID R, REFLACEMENT CONTRAC ARATE SPECIFICATIONS F L COSTS ASSOCIATED WIT	MENT REQUIRE. ITEM LISTED T DOCUMENTS OR WATER LIN H INSURANCE.
	102-1		BE REMOVED FROM SIDEWALKS MAINTENANCE OF TRAFFIC: INCLUDES INCLUDING TEMPORARY STRIPING FOR RELOCATION OF SIGNS AND ALL OTHER A 24 HOUR / 7 DAY BASIS. VARIABLI CLOSINGS, ALL COSTS FOR EACH PHAS INCLUDE MOT PLANS PREPARED FOR PROFESSIONAL ENGINEER LICENSED IN	BARRIER 15 DAY CO TRAFFIC IN E CHANGIN E OF WORI EACH PH	WALLS. VERTICAL PANEL JRE PERIOD, SIGNS, MESS CIDENTAL ITEMS REQUIRE G MESSAGE SIGN SHALL K AND THE OVERALL PROJ MASE OF WORK AND THI	S. ATTENUATORS, TEMPO SAGE BOARDS, BARRICAD D FOR THE MAINTENANCE IN PLACE 2 WEEKS PRIC IN CLACE 2 WEEKS PRIC	DRARY STRIPING, LES, PERMANENT OF TRAFFIC ON DR TO ALL ROAD D. COST SHALL	CONSTRUCTION SUBJECTING CONTRACT DOCUMENTS FOR PROJECT LIMITS IN A SATI OF ALL EXISTING GRASSED GRASS HEIGHT SHALL NOT 102-1A, MAINTENANCE OF THE PROJECT, INSTALLATI REQUIRED FOR THE SAFE	NOTH THE WAT SFACTORY COND AREA WITHIN T EXCEED 6" WIT TRAFFIC: THE N ON, AND MAINTE HANDLING OF P	ERLÎNE WÔRK ÂND THE ITION UNTIL FINAL ACCE HE RIGHT-OF-WAY, REM H OUT MOWING, CLIPPIN UMP SUM PRICE PAID Î NANCE OF TRAFFIC CON EDESTRIAN, BICYCLE AM	RÕAD WIDENING WORK. TH EPTANCE OF THE PROJECT. IOVAL OF ALL TRASH AND I GS SHALL BE REMOVED FF INCLUDES ALL COSTS FOR TROL AND TEMPORARY SIG ID VEHICULAR TRAFFIC FO	HE CONTRACTO . SUCH MAINTE DEBRIS ON A ROM SIDEWALK PREPARATION GNING AND STR DR 24 HOURS F
	110-1-1		CLEARING AND GRUBBING: THE LUMP S REMOVAL IN THE DRAWINGS AND SPEC ASPHALT OR CONCRETE, CURB AND SID WORK ALSO INCLUDES RELOCATION OF E THE EXISTING STRUCTURE REMAINS, TH CONTRACTOR SHALL COMPLY WITH THE S	UM PRICE CIFICATION EWALK, GU XISTING D IE RESULTI	PAID INCLUDES REMOVAL A S INCLUDING VEGETATIO ARDRAIL, POLES, FENCE, H RAINAGE STRUCTURES, WH NG HOLE SHALL BE FORME	N & TOPSOIL, SAW CUTT PIPES, HEADWALLS AND/O IERE EXISTING PIPES AR ED AND REPAIRED WITH O	ING, PAVEMENT, OR STRUCTURES. E REMOVED AND	BID ITEM INCLUDES, CONS AND RESTORING THE PAVE PAINTED LANE STRIPING F COMPLETE AND IN PLACE. 104-1A, EROSION CONTROL: (NOI) WITH THE FDEP PRI	EMENT. THIS IT FOR THE TRAFFI THE LUMP SUI OR TO BEGINNIN	EM INCLUDES, AS-BUILT C DIVERSION, MAINTAIN M PRICE PAID INCLUDES G CONSTRUCTION, SILT	TING THE EXISTING STRIP ING STRIPING AND REMOV S ALL EROSION CONTROL M FENCE, FLOATING TURBIDI	ING WITHIN TI ING TEMPORAR EASURES, INC ITY BARRIERS,
	120-1		EXCAVATION: THE UNIT PRICE PAID PE FOR ROAD WIDENING AND LOWERING, PR SUBGRADE TO 12" WITHIN THE PAVED A COMPACTING MATERIAL SHOWN ON THE I PLACE. EXCESS MATERIAL SHALL BE H, ON PLAN QUANTITIES, AND NO ADDITION.	OTECTION A REA AND S PLANS FOR AULED OFF	AND RELOCATION OF EXIST TABILIZED SHOULDERS; AN CONFORM AREAS OUTSIDE AND PROPERLY DISPOSED	ING INFRASTRUCTURE, CO ID FOR FURNISHING, PLAC OF THE PAVED ROAD, CO OF. THIS IS A FINAL PA	MPACTING CING AND MPLETE AND IN	MEASURES DELINEATED IN <u>110-1-1A, CLEARING AND O</u> AND OTHER IMPROVEMENT MAINTENANCE, ADJUSTING DELIVERED TO THE COUNT ROAD WIDENING: PRE-CONS	SRUBBING: THE S, REMOVAL OF VAULTS AND BO Y, DUST CONTRO STRUCTION LAYO	LUMP SUM PRICE PAID 20" WATERLINE AND API XES AND VALVES AND I NL, TESTING, AND DISPO UT, REMOVALS REQUIRE	INCLUDES ALL COSTS FOR PURTENANCES AS CALLED MANHOLES AND ETC. TO FI ISING OF WASTE; D FOR ROAD WORK, CLEAR.	CLEARING, DE FOR ON THE E INISH GRADE, ING OF VEGET.
	120-2		BORROW EXCAVATION (RECLAIMED FDR): OF THE TOP 3" OF PROCESSED BASE M WIDENING, AND INCLUDES PAVEMENT F PLACING AND COMPACTING MATERIAL SI AND DISPOSED OF AS REQUIRED TO L PAVEMENT TO ACCOMMODATE WIDENING.	INIMUM, AN ROM THE YOWN AT R BALANCE T	ID ADJUSTED AS REQUIRE ROAD, MATERIAL HANDLIN DAD WIDENING AND ROAD HE SITE. PAY ITEM IS	D FOR ADDITIONAL BASE G. STOCK PILING, AND F OVER EXCAVATION AREA BASED ON WORK OUTSIC	PREPARED FOR OR FURNISHING AS, OR REMOVED DE OF EXISTING	REMOVED FROM EITHER IN THE CONTRACT DOCUMENT. 120-18, EXCAVATION AND SHOULDER CONSTRUCTION, ACCORDANCE WITH THE DO 285-706, OPTIONAL BASE (S. EMBANKMENT: 1 SITE AND SUBO ESIGN DRAWING:	THE LUMP SUM PRICE P RADE PREPARATION AN 5. DETAILS, AND SPECI	AID INCLUDES ALL COSTS D COMPACTION READY TO FICATIONS FOR A COMPLET	FOR EXCAVATI ACCEPT BASE, E INSTALLATIO
	120-6		PAYMENT WILL BE MADE THEREFORE. EMBANKMENT: THE UNIT PRICE PAID P FOR ROAD WIDENING AND LOWERING, TO 12" (STRUCTURAL OR STABILIZED S FURNISHING, PLACING AND COMPACTINI PAVED ROAD, COMPLETE AND IN PLACE	PROTECTIO SECTION) W 5 MATERIA EXCESS	DN AND RELOCATION OF H ITHIN THE PAVED AREA L SHOWN ON THE PLANS MATERIAL SHALL BE HA	NFRASTRUCTURE, COMPAC AND STABILIZED SHOUL FOR CONFORM AREAS O ULED OFF AND PROPERL	TING SUBGRADE DERS; AND FOR UTSIDE OF THE Y DISPOSED OF	205-700, OFTINAL BASE C COMPACTION BASE COURSE 334-1-13D, SUPERPAVE AS COMPACTION ASPHALT CON 570-1-2A, SOD AND SITE I ACCORDANCE WITH THE DI	, COMPLETE ANI SPHALT CONCRET CRETE, COMPLET RESTORATION: 1	D IN PLACE. <u>E. 2" SP 12.5:</u> THE UN FE AND IN PLACE. THE UNIT PRICE PAID P	IT PRICE PAID PER SOUAF ER SOUARE YARD PAID INI	RE YARD OF PA
	160-4	_	THIS IS A FINAL PAY ITEM BASED ON P CONSTRUCTION OF STABILIZED SHOULD SHOULDER IS IMPACTED BY ROAD WIDE	ERS SHALL NING THIS	BE PAID ONLY IN THOSE ITEM INCLUDES ALL STAE	AREA WHERE THE EXIST BILIZED SUB=BASE, THIS	ING STABILIZED	630-2-11B, 4-2" CONDUITS BE PAID FOR AS THE LINE	. WORK INCLUD	ES THE ATTACHMENT O	F FOUR 2" CONDUITS TO T	HE 24" HDPE
2	283-71)	ITEM BASED ON PLAN QUANTITIES AND A RECLAIMED ASPHALT BASE COURSE (FUL ALL COSTS FOR PROCESSING AND MIXIN PILING AND HANDLING MATERIAL MULTI INTRODUCING AND MIXING ADMIXTURES REQUIRED FOR A READY TO PAVE SURF AROUND SHALLOW FEATURES AS CALLED	L DEPTH I NG EXISTIN PLE TIMES COMPACT ACE. WORK	RECLAMATION): THE UNIT IG ROADWAY TO REQUIRED , HANDLING ADDITIONAL B 10N, MAINTENANCE OF TH INCLUDES CONFIRMING LO	PRICE PAID PER SQUARE DEPTH, PLUS ADDITION. ASE, TEMPLETING FULL F IE SURFACE, AND LEVEL DWERING OF OBSTRUCTION	AL BASE, STOCK ROADWAY WIDTH, ING COURSE AS IS AND WORKING	1050-42-224A, FURNISH AN EXCAVATION, DIRECTIONAL ITEM), TESTING, RESTORAT SPECIFICATIONS, COMPLET 1050-11-425A, FURNISH AN BEDDING AND BACKFILL, S	DRILLING OPER TION, AND ALL O TE AND IN PLACE ND INSTALL 20" SUBSTRUCTURE F	ATIONS, PIPE SUPPORT: THER INCIDENTAL APPU DIP WATER MAIN: THE	5,24" HDPE (DR 11) PIPE, RTENANCES AND OPERATIC PRICE PAID PER LINEAR I	FUSION WELDI DNS REQUIRED FOOT INCLUDE
<u>,</u>	285-709		FOR THE LIMITS OF WORK. BASE MATERIAL SHALL BE MIXED IN WI	TH FDR TO	PRODUCE A HOMOGENOUS	BASE MATERIAL.		RESTORATION, COMPLETE A	INSTALL FITTIN			
Â	334-1-13		INCLUDES TACK COAT BETWEEN ASPHAL NOTE: "CONFORM" ON THE DRAWINGS = " INCLUDES SAW CUT. REMOVAL OF EXIST.	OVERBUILD	·		IDUM #3	1080-11-404A, FURNISH, II BEDDING AND BACKFILL, S	IES AS IDENTIF NSTALL AND REA SUBSTRUCTURE F	IED IN DETAILS A AND 10VE 12 [°] BYPASS ASSEI PROTECTION, INSTALL PI	B ON BID ITEM 1080-11-4 MBLY: THE LUMP SUM PRI PE (PVC C-900 DR18), AND	104A ABOVE. CE PAID INCLU D FITTINGS, AF
	425-XX 425-3-8		ALL WORK SHALL BE IN ACCORDANCE WI CONSTRUCT SPECIAL JUNCTION BOX, IN					COMPLETE AND IN PLACE. AND CAPPING OF THE GATI	E VALVES, REST	ORATION.		
	430-175	XXX	COMPACTION, BACKFILL AND COMPACTION ALLOWABLE OPTIONAL MATERIAL IS REIN				E COLLARS.	1080-11-506A, FURNISH AN WITH COUNTY STANDARD E 1080-11-512A, SAMPLE POI	DETAILS, COMPLE	TE AND IN PLACE		
Â	522-3X 527-2 530-3-3A	\sim	ALL CONCRETE SHALL BE 6" FIBER REIN DETECTABLE WARNING STRIPS SHALL BU RIP RAP, RUBBLE, BANK AND SHORE	THE U	YELLOW IN COLOR			1080-11-512B, PIGGING AN INCLUDING WATER, BACKFL INSTALLED MAINS TO THE	D FLUSHING: T.	HE LUMP SUM PRICE PA S AND METERS, INCIDE	ID INCLUDES ALL LABOR, I	MATERIALS, TE
			EXCAVATION, COMPACTION OF SUBGRADE BEDDING STONE AND ROCK RUBBLE RIP OF WAY IN ACCORDANCE WITH THE DESI	RAP FROM	DRAINAGE FLOW TO LINE	TOP OF SLOPE WITHIN TH		<u>1080-11-512C, DISINFECTI</u> WATER, PRESSURE TESTIN				
	570-1-2 630-2-11	A	CONTRACTOR TO REPLACE SOD TO MATCH OPEN TRENCH CONDUIT INSTALLATION IN PAID, ADJUSTING ALIGNMENT FOR OBSTR TAPE, SWAB PIPE, PULL STRING INSTALL	ICLUDES IN RUCTIONS, I .ED, INCLUI	ISTALLATION OF 2-2" HDPE MINIMUM DEPTH OF 36" BE DES 2 CONDUITS PER LINE	PIPES PER LINIAL FOOT LOW FINISH GRADE, WARM		1080-23-120A, FURNISH AN EXCAVATION, MATERIALS, L AND VALVE, ALL APPURTEN 1080-24-112A, FURNISH AN	LABOR AND PREF IANCES, DISINFE	PARATION FOR THE TEST CTION, TESTING, RESTO	TING AND INSTALLATION OF DRATION, COMPLETE AND IN	F STAINLESS S N PLACE.
	630-2-12	?A	EXCAVATION, BACK FILL, COMPACTION AN DIRECTIONAL BORE CONDUIT INSTALLATI STRING INSTALLED.			LINIAL FOOT PAID, SWAB	PIPE, PULL	AND BACKFILL, INSTALLING AND IN PLACE.				
	635-2-12	?A	SPINE INSTALLED. SPLICE-PULL BOX SHALL BE PER FDOT I TO FINISH GRADE. CONCRETE APRON SI PAVEMENT SHALL BE TRAFFIC RATED.					1080-24-120A, FURNISH AN BACKFILL, INSTALLING VAL 1080-27-120A, FURNISH AN	VES. OPERATOR: ND INSTALL 20"	5, VALVE BOXES, STEMS LINE STOP: THE UNIT I	5, RETAINER GLANDS, TEST PRICE PAID FOR EACH INC	ING, RESTORA
ŀ			REVI	510 N 5			ERIC I ELAVELL	INSTALLING LINE STOPS A				<u> </u>
			DESCRIPTION E TO COUNTY COMMENTS A E TO COUNTY COMMENTS A	DATE	DESCR	IPTION	ERIC L. FLAVELL, F P.E. LICENSE NUM BOWMAN CONSULTI 4450 W. EAU GALLI MELBOURNE, FL 32 CEPTIEICATE OF A	BER 76826 ING GROUP IE BLVD.	DEPARTMENT ROAD NO. CR-613	NDIAN RIVER OF PUBLIC WORKS/ COUNTY INDIAN RIVER	ENGINERING DIVISION FINANCIAL PROJECT ID IRC: 1325	
I				1			CENTIFICATE OF A	UTTUNIZALIUN 30402	58th AVE		FD0T:436416-1-54-01	



GENERAL NOTES:

- 1. CLEARING AND GRUBBING WITHIN THE LIMITS OF CONSTRUCTION, ALL ITEMS CALLED FOR TO BE REMOVED SHALL BE CLEARED AND DISPOSED OF INCLUDING ALL VEGETATION AND ROOT MATERIAL. ALL VEGETATION, DEBRIS, A.C., CONCRETE OR OTHER UNSUITABLE MATERIAL SHALL BE DISPOSED OF OFF-SITE IN AN AREA PROVIDED BY THE CONTRACTOR.
- 2. NOT USED
- 3. NOT USED
- 4. SOD PLACEMENT SHALL BE AS PER F.D.O.T. INDEX #570 SOD TYPE SHALL MATCH EXISTING GRASS FOR EACH PROPERTY.
- 5. UTILITIES THE LOCATION OF THE EXISTING UTILITIES SHOWN IN THE PLANS ARE APPROXIMATE ONLY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT LOCATION OF ALL UNDERGROUND UTILITIES, WHETHER SHOWN ON THE PLANS OR NOT, PRIOR TO CONSTRUCTION, IN ADDITION, THE CONTRACTOR SHALL BE RESPONSIBLE AT NO ADDITIONAL COST, TO VERIFY IF OTHER UTILITIES ARE NOT SHOWN ON THE PLANS OR EXIST WITHIN THE AREA OF CONSTRUCTION. SHOULD THERE BE UTILITY COST, TO VERIFY IF OTHER UTILITIES ARE NOT SHOWN ON THE PLANS OR EXIST WITHIN THE AREA OF CONSTRUCTION. SHOULD THERE BE UTILITY CONFLICTS. THE CONTRACTOR SHALL INFORM THE ENGINEER AND NOTIFY THE RESPECTIVE UTILITY OWNERS TO RESOLVE UTILITY CONFLICTS AND UTILITY ADJUSTMENTS, AS REQUIRED.
- 6. ANY EXISTING ROADWAY AND/OR UTILITY THAT IS DAMAGED BY THE CONTRACTOR SHALL BE CORRECTED AT THE CONTRACTOR'S EXPENSE.
- 7. EXISTING DRAINAGE STRUCTURES AND PIPES WITHIN THE CONSTRUCTION LIMITS SHALL BE PROTECTED AND REMAIN UNLESS OTHERWISE NOTED.
- 8. TACK COAT-BITUMINOUS TACK COAT SHALL CONFORM TO THE REQUIREMENTS OF THE F.D.O.T. 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.
- 9. 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, 2017 EDITION, SECTION 334, THE MINIMUM COMPACTED THICKNESS TO BE AS NOTED.
- 10. MAIL BOXES TO BE RELOCATED TO 5' FROM EDGE OF PAVEMENT (TYP).
- 11. PRIOR TO COMMENCEMENT OF ANY EXCAVATION, THE CONTRACTOR SHALL COMPLY WITH FLORIDA STATUTE 553.851 FOR THE PROTECTION OF UNDERGROUND GAS PIPELINES.
- 12. THE CONTRACTOR SHALL PREPARE AND MAINTAIN PROPER TRAFFIC CONTROL AT AL TIMES DURING CONSTRUCTION AND SHALL BE REQUIRED TO PROVIDE ALL BARRICADES LIGHTING, SIGNAGE AND FLAG MEN AS NECESSARY TO PROVIDE FOR THE SAFETY OF THE PUBLIC IN THE AREA OF WORK. THE ROADWAY SHALL REMAIN CLOSED DURING THE CONSTRUCTION OF THE ROADWAY PORTION OF THE PROJECT. THE ROADWAY SHALL BE REOPENED TO TRAFFIC AS SOON AS PRACTICAL. MAINTENANCE OF TRAFFIC SHALL BE IN ACCORDANCE WITH CURRENT FLORIDA D.O.T. STANDARDS AND THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES. CONTRACTOR SHALL PAY ALL COSTS FOR PREPARING AND MODIFYING MOT PLANS DURING THE COURSE OF THE PROJECT. CONTRACTOR IS REQUIRED TO PROVIDE ALL MAINTENANCE OF TRAFFIC (MOT) FOR THE PROJECT AND ADJUSTING IT AS REQUIRED FOR EACH PHASE OF OR CHANGE IN THE WORK. CONTRACTOR SHALL OBTAIN ALL PERMITS AND APPROVALS ASSOCIATED WITH IMPLEMENTING MOT DURING CONSTRUCTION. CONTRACTOR IS RESPONSIBLE FOR HAVING MOT PLANS PREPARED BY AN ENGINEER REGISTERED IN THE STATE OF FLORIDA AND QUALIFIED TO DO THE WORK. MOT SHALL BE IN PLACE AND MAINTAINED THROUGH THE COURSE OF THE ENTIRE PROJECT ON A 24 HOUR BASIS AS NEEDED.
- 13. THERE SHALL BE NO EXCAVATIONS LEFT OPEN AFTER END OF SHIFT, UNLESS POSITIVELY SHIELDED

- 14. ALL CONSTRUCTION EQUIPMENT AND MATERIALS SHALL BE STORED A MINIMUM OF 15' FROM THE EDGE OF PAVEMENT AND SHALL BE PROTECTED BY BARRICADES WITH FLASHING YELLOW LIGHTS.
- 15. THE CONTRACTOR SHALL NOTIFY TRAFFIC ENGINEERING AT (772) 226-1547, 72 HOURS PRIOR TO BEGINNING CONSTRUCTION.
- 16. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CONTACT SUNSHINE STATE ONE CALL SYSTEM AT 1-800-432-4770 FOR LOCATIONS OF UNDERGROUND FACILITIES AT LEAST 72 HOURS PRIOR TO ANY EXCAVATION.
- 17. FOR FURTHER UTILITY COORDINATION CONTACT: AT&T, LUKE FOLKERTS, (407) 496-6041 FLORIDA CITY GAS, RON MULLER, (321) 638-3424 FLORIDA POWER & LIGHT CO. - DISTRIBUTION, ROBERT MORRIS, (772) 226-1821 FLORIDA POWER & LIGHT CO. - TRANSMISSION, TRACIA D'ANNUNZIO, (561) 940-3560 FLORIDA PUBLIC UTILITIES, DALE BUTCHER, (561) 602-3702 INDIAN RIVER COUNTY TELECOMMUNICATIONS, MANNY CABO, (772) 226-1318 INDIAN RIVER COUNTY UTILITIES, ARJUNA WERAGODA, P.E., (772) 940-9310 INDIAN RIVER COUNTY TRAFFIC, JANIE HOLLINGSWORTH, P.E., (772) 266-1568
- 18. CONCRETE ALL CONCRETE SHALL DEVELOP 3000 P.S.I. (MINIMUM) 28 DAY COMPRESSIVE STRENGTH OR GREATER, SEE ADDITIONAL REQUIREMENTS FOR CONCRETE CULVERT. CLASS II CONCRETE SHALL CONFORM TO THE FLORIDA D.O.T. SPECIFICATIONS, 2017 EDITION, SECTION 346.
- 19. ALL STRUCTURE LENGTHS AND CENTERLINE SLOPE LENGTHS SHOWN ON THESE DRAWINGS ARE SCALED DISTANCES. ENDWALL LENGTHS ARE TAKEN OUTSIDE OF WALL TO OUTSIDE OF WALL. THE CONTRACTOR SHALL CONFIRM ALL MEASUREMENTS IN THE FIELD AND NOTIFY THE ENGINEER IN WRITING OF ANY DISCREPANCIES WITH THE DRAWINGS PRIOR TO PERFORMING THE WORK. ALL QUANTITIES SHALL BE PAID ON THE BASIS OF FIELD MEASUREMENTS OF COMPLETED WORK, EXCEPT PAYMENTS DESIGNATED AS FINAL IN THE BID DESCRIPTIONS.
- 20, ALL CONCRETE, PAVING, DRAINAGE AND UTILITY WORK SHALL BE CONSTRUCTED IN FULL ACCORDANCE WITH THE APPLICABLE F.D.O.T. AND INDIAN RIVER COUNTY STANDARDS.
- 21. THE ELEVATIONS SHOWN HEREON ARE BASED UPON THE INDIAN RIVER COUNTY VERTICAL CONTROL NETWORK (I.R.C.V.C.N.) AND ARE RELATIVE TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (N.A.V.D. 88). ALL BENCHMARKS IN THE I.R.C.V.C.N. MEET OR EXCEED THE ACCURACY REQUIRED PER CHAPTER 5J-17, FLORIDA ADMINISTRATIVE CODE.
- 22. THE TOPOGRAPHY SHOWN HEREON WAS PROVIDED BY INDIAN RIVER COUNTY.
- 23. ANY N.G.V.D. 1929 MONUMENT, N.A.V.D. 1988 MONUMENT, GOVERNMENTAL LAND CORNER OR SURVEY MONUMENTATION WITHIN LIMITS OF CONSTRUCTION IS TO BE PROTECTED. IF IN DANGER OF DAMAGE, THE CONTRACTOR SHALL NOTIFY: DAVID W. SCHRYVER, PSM INDIAN RIVER COUNTY SURVEYOR ADDENDUM #3 722-226-1386
- 24. ALL EXISTING SURVEY AND PROPERTY CORNER MONUMENTS LOCATED WITHIN THE AREA OF PROPOSED CONSTRUCTION ARE TO BE REFERENCE PRIOR TO CONSTRUCTION AND RESET AFTER CONSTRUCTION BY A FLORIDA LICENSED PROFESSIONAL LAND SURVEYOR.
- 25. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR, BUT NOT LIMITED TO ALL PIPE, DRAINAGE STRUCTURES, ASPHALT & CONCRETE MIX DESIGN, STRIPING MATERIAL ASPHALT EMULSION MIX DESIGN, WATER PIPE RELOCATION AND DIRECTIONAL DRILL.
- 26. ALL CHANGES SHALL BE APPROVED IN WRITING BY INDIAN RIVER COUNTY AND THE ENGINEER OF RECORD.

	R E V I	SIONS		ERIC L. FLAVELL. P.E.	INDIAN RIVER COUNTY					
DATE DESCRIPTION 2/19/20 RESPONSE TO COUNTY COMMENTS A		DATE DESCRIPTION		DE LICENCE NUMBER 76026	DEPARTMENT OF PUBLIC WORKS/ENGINERING DIVIS					
			4450 W. EAU GALLIE BLVD.	ROAD NO.	COUNTY	FINANCIAL PROJECT ID				
				MELBOURNE, FL 32934 CERTIFICATE OF AUTHORIZATION 30462	CR-613 58th AVE	INDIAN RIVER	IRC: 1325 FD0T:436416-1-54-01			

- REQUIRED PRIOR TO INITIATING WORK.
- STANDARDS.

- WIRE PORTS.
- DRIVEWAY.
- WORK AREA.
- ALL CONFLICTS OR CROSSINGS.
- CONSTRUCTION.

27. ALL WORK SHALL BE DONE IN A WORKMANLIKE MANNER AND SHALL CONFORM TO ALL APPLICABLE CITY, COUNTY, STATE OR FEDERAL REGULATIONS AND/OR CODES, THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS AND LICENSES

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

30. CONTRACTOR SHALL PROTECT OR RELOCATE ALL MAIL BOXES WITHIN LIMITS OF CONSTRUCTION. CONTRACTOR IS RESPONSIBLE FOR COORDINATING WITH THE MAIL SERVICE TO INSURE UNINTERRUPTED DELIVERY.

31. 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.

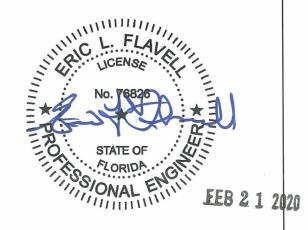
32. VALVE, MANHOLE AND VAULT ADJUSTMENT SHALL INCLUDE ALL IRC UTILITIES ADMINISTRATION REQUIREMENTS INCLUDING CONCRETE PAD, BRASS ID TABS AND

33. 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

34. A NUMBER OF POLES ARE REQUIRED TO BE RELOCATED ALONG 69TH STREET TO MEET CLEARANCE SETBACKS. CONTRACTOR SHALL COORDINATE WITH FPL TO HAVE THE POLE RELOCATED AND EXISTING POLES REMOVED. SOME POLES ARE WITH IN THE

35. FIBER OPTIC CONDUIT SHALL CONSIST OF 2-2" HDPE CONDUITS IN PARALELL WITH PULL BOXES. CONTRACTOR SHALL FIELD ADJUST CONDUITS AS NECESSARY TO AVOID EXISTING INFRASTRUCTURE AND OBSTRUCTIONS. ALL DRIVEWAYS AND STREET CROSSING SHALL BE DIRECTIONAL DRILLED. PULL BOXES SHALL BE CONSTRUCTED PER FDOT INDEX 17700. CONTRACTOR TO OBTAIN LOCATES OF EXISTING FIBER OPTIC CABLE FROM INDIAN RIVER COUNTY. CONTRACTOR TO FIELD VERIFY LOCATION OF UTILITIES AND SUBSTRUCTURES TO VERIFY CLEARANCE, FIBER OPTIC TO MAINTAIN 36" MINIMUM COVER AND A MINIMUM OF 12" VERTICAL AND 3' HORIZONTAL SEPARATION AT

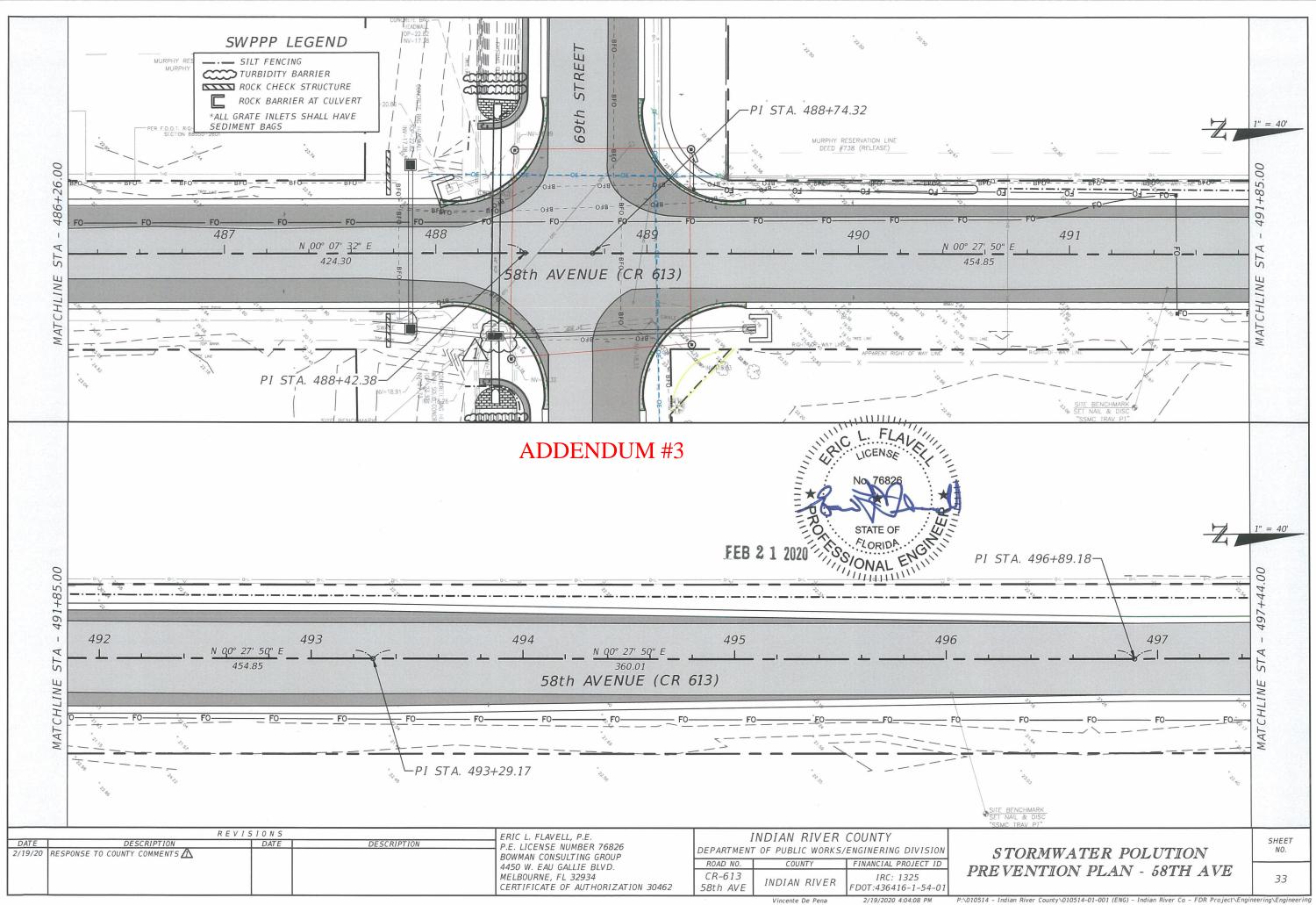
36, CONTRACTOR TO COORDINATE WITH INDIAN RIVER COUNTY TELECOMMUNICATIONS. MANNY CABO, (772)226-1318 FOR FINAL PULL BOX LOCATIONS PRIOR TO

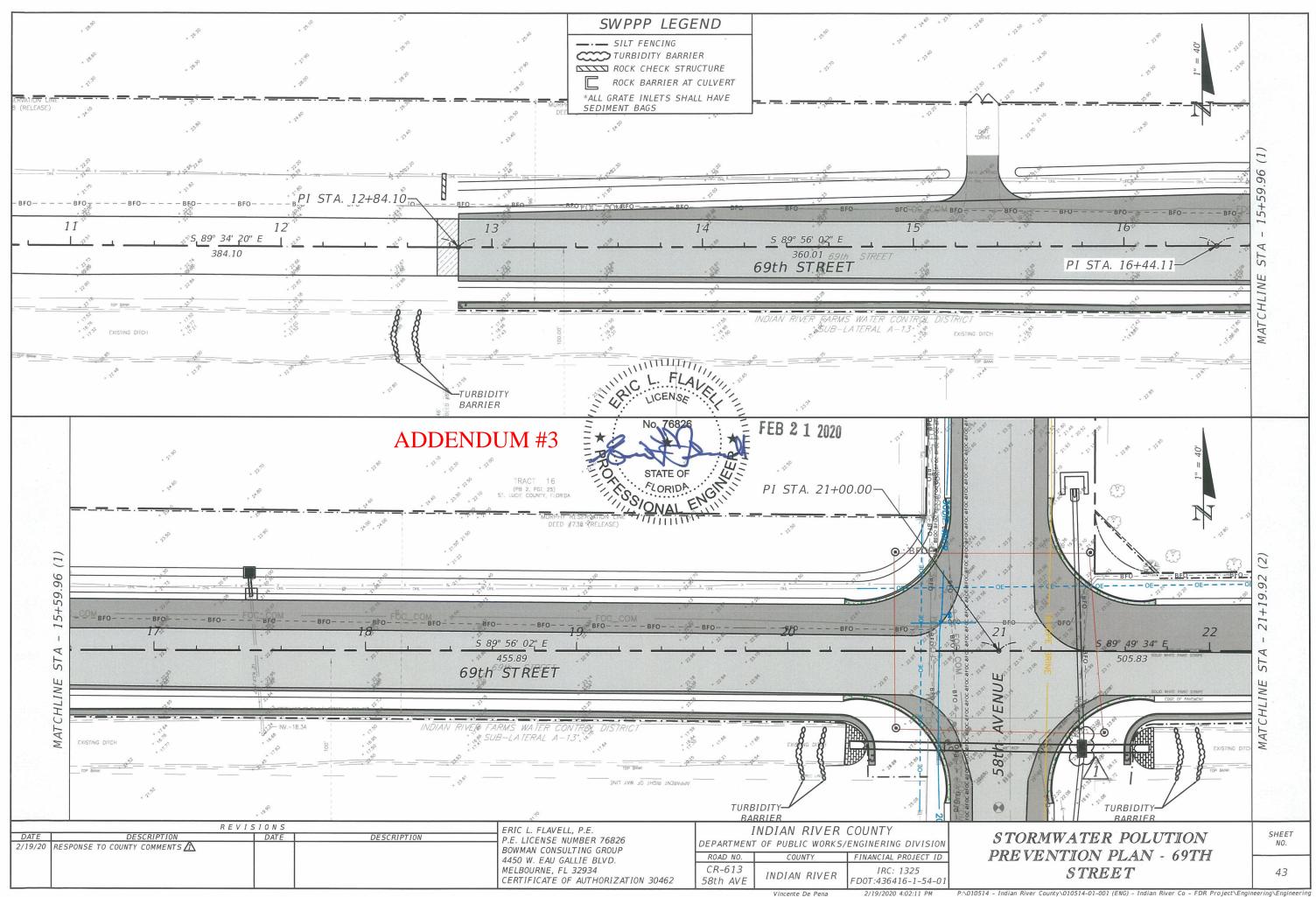


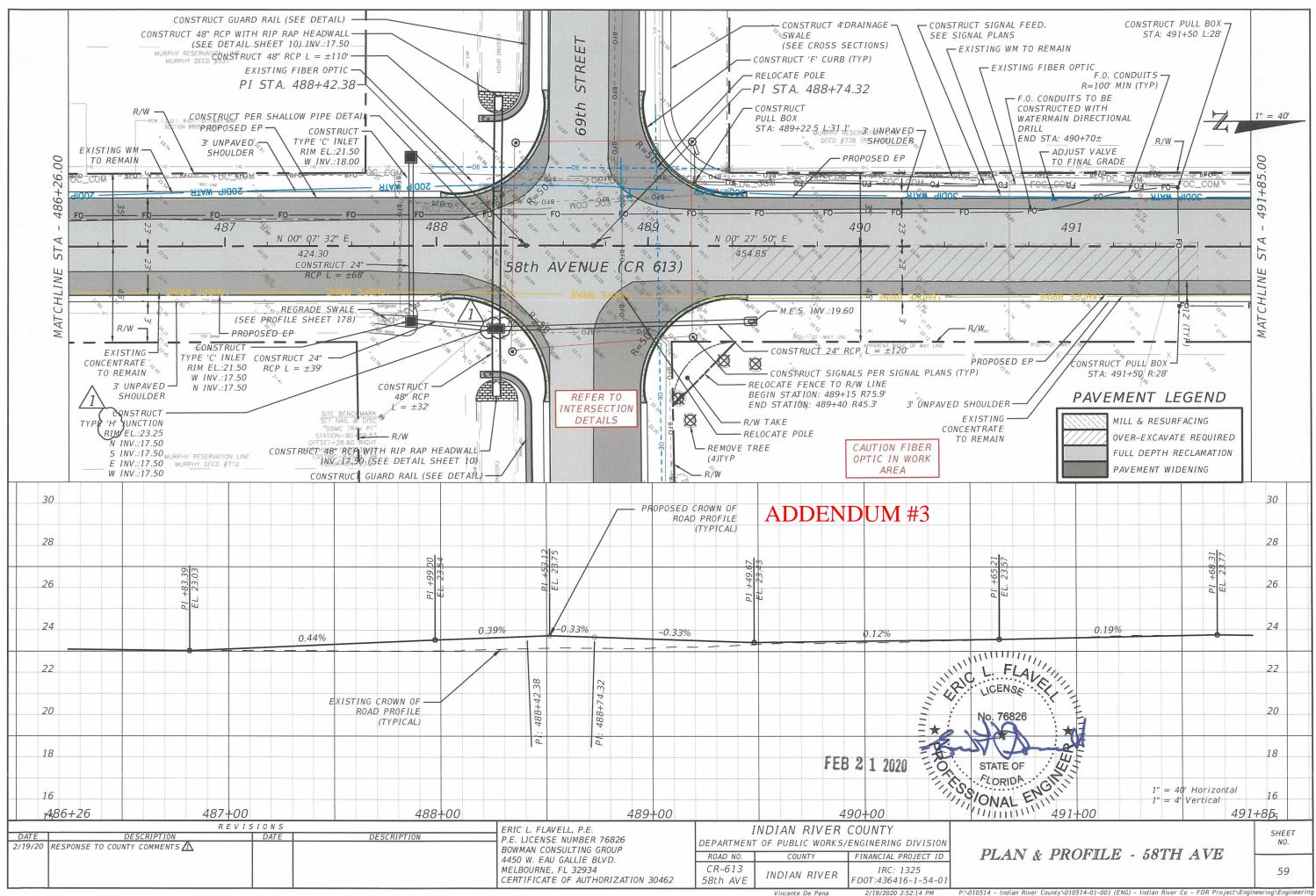
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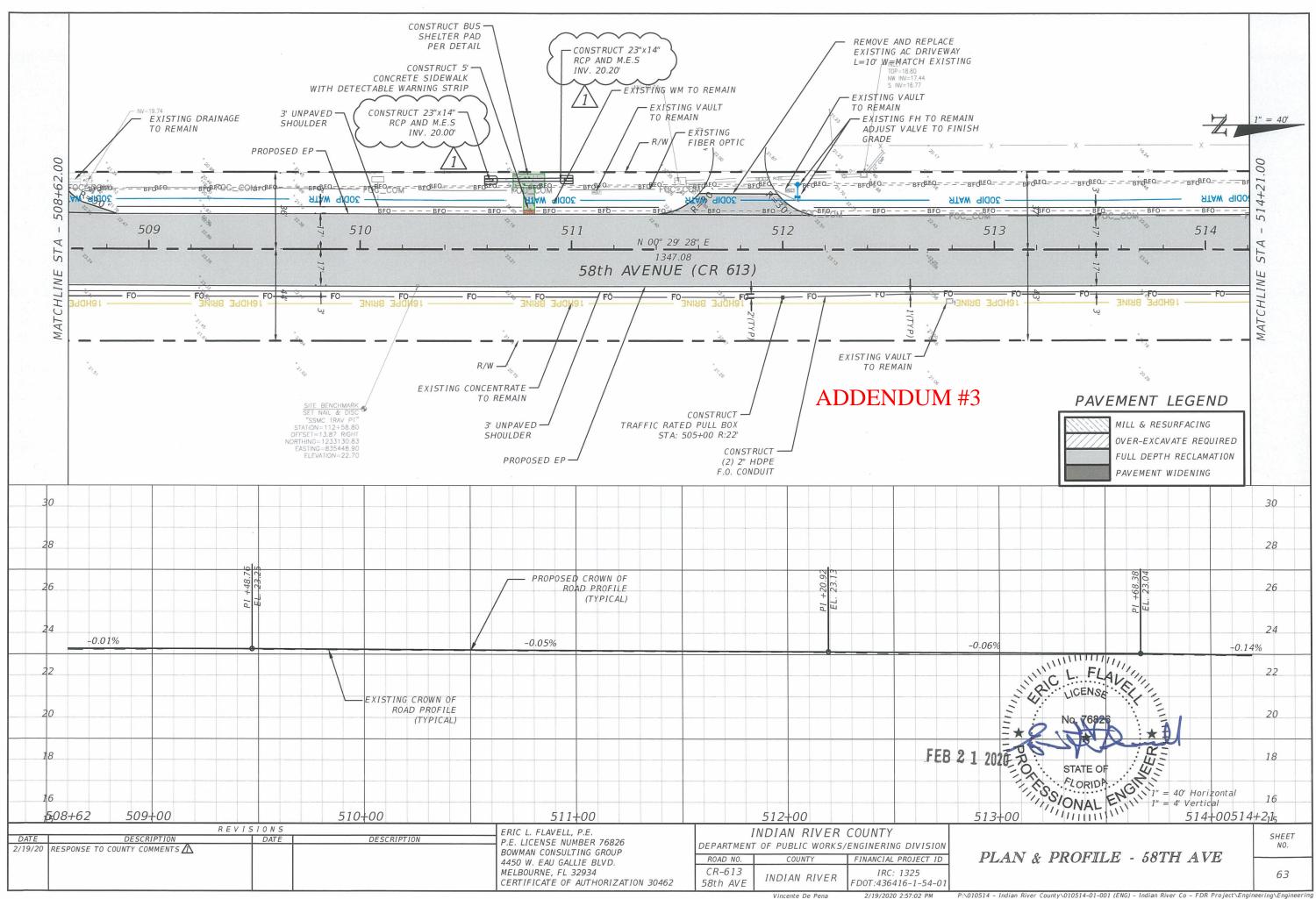
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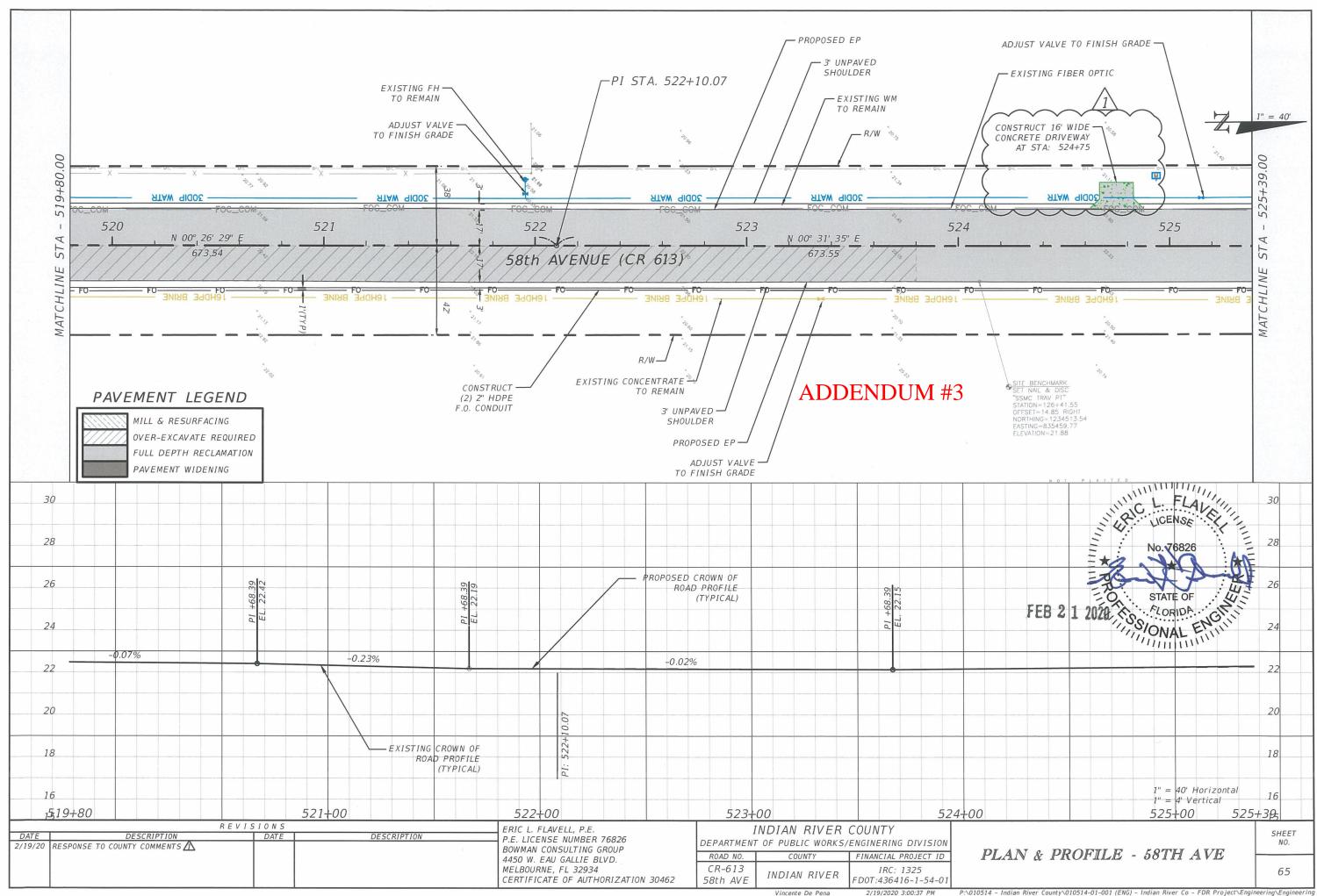
GENERAL NOTES

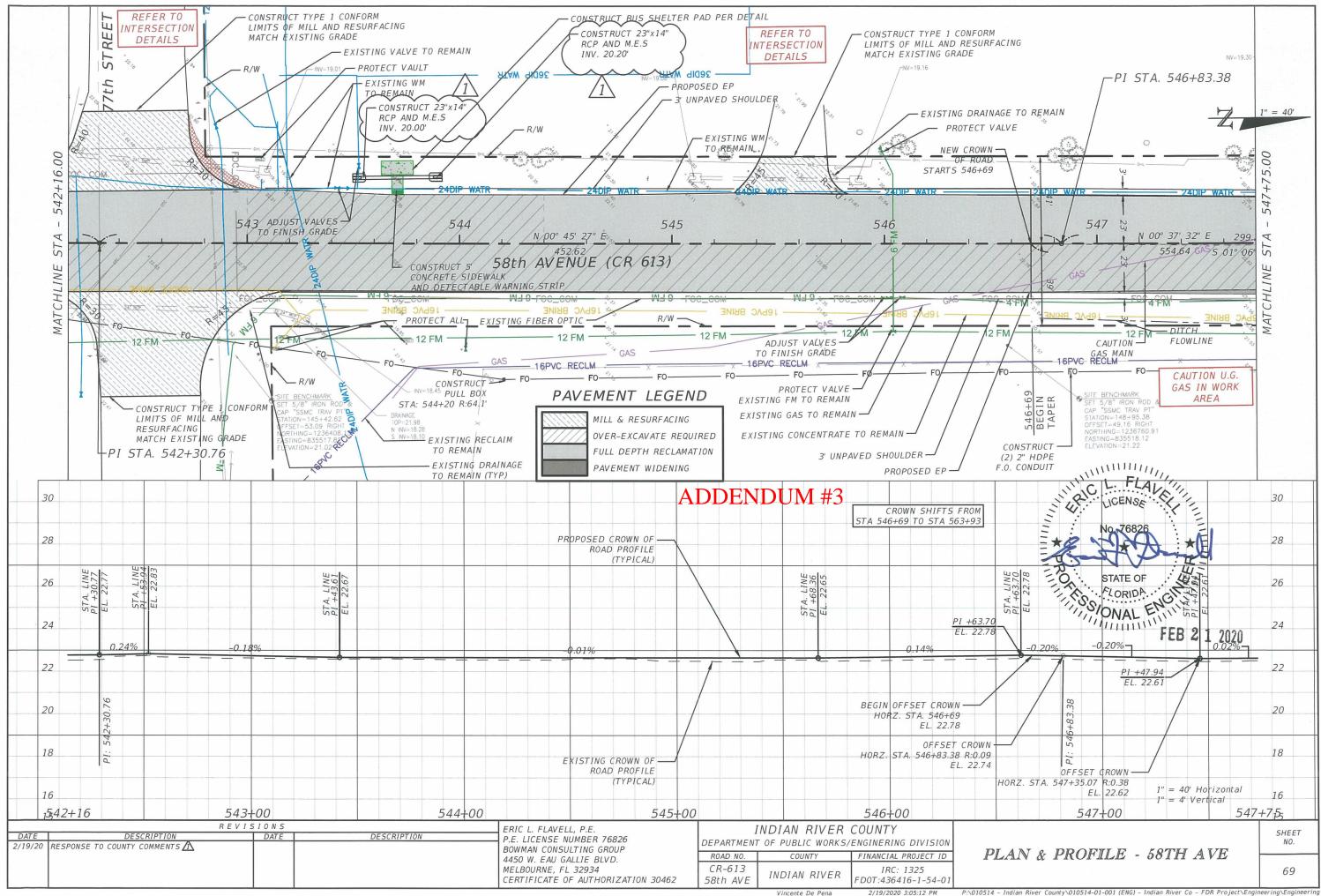


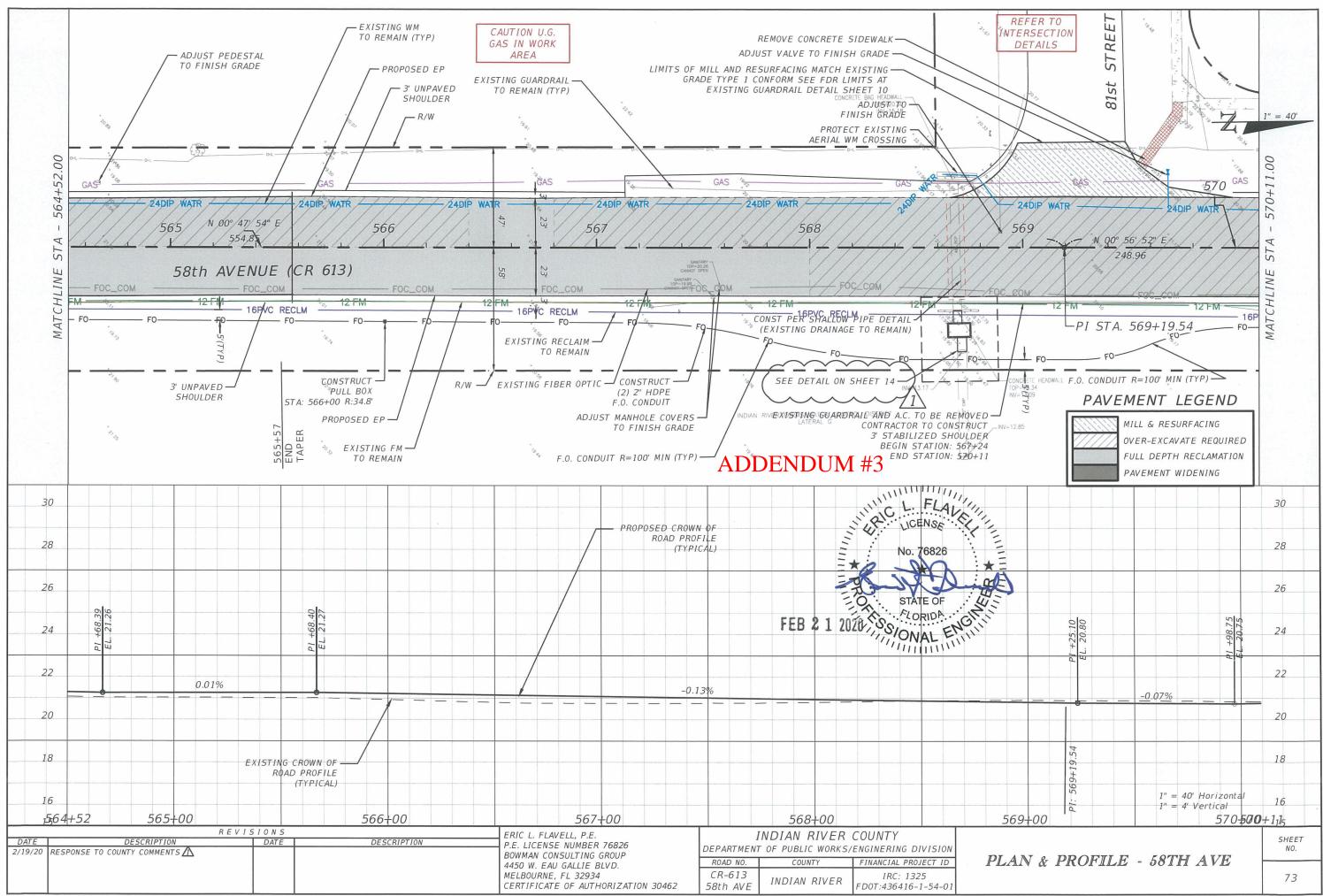




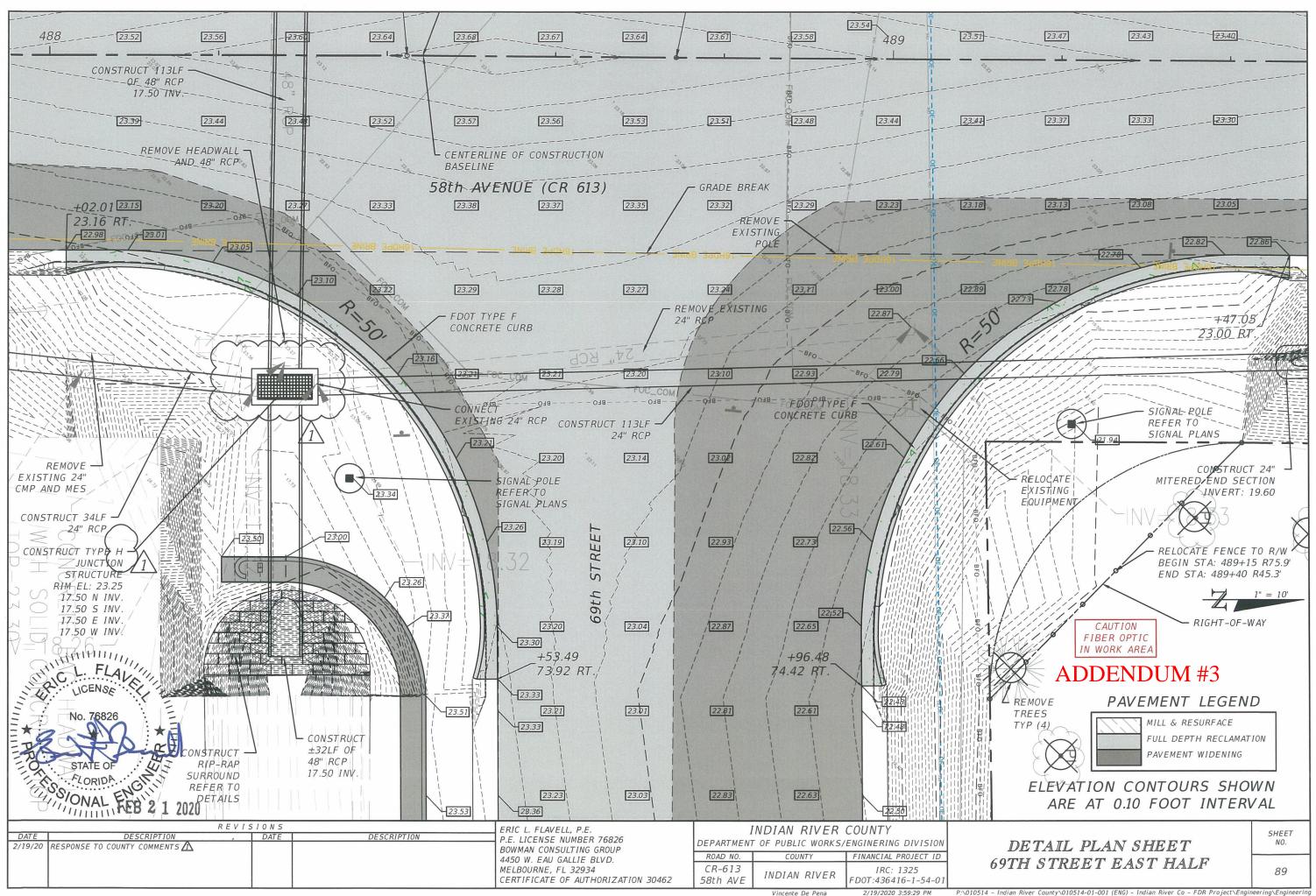




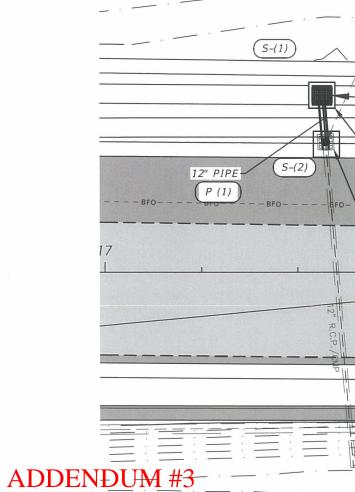


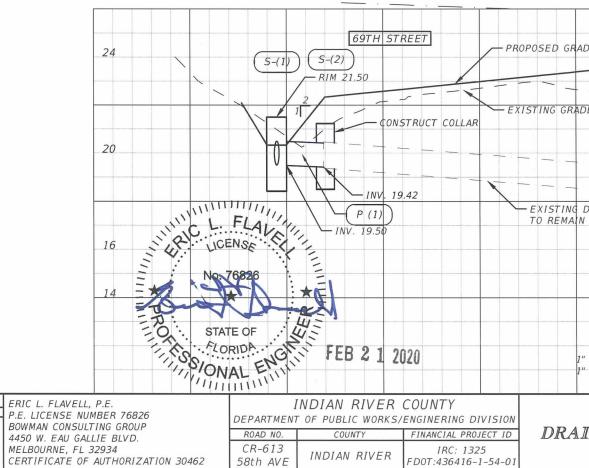


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				STI	RUCTUR	E TABL	E						
Q T Y	STR. #	STATION	SIDE	D	ESCRIPTIC	DN .			CO	NNECTE	D PIPE		
1	5-(1)	17+45.01	Lt.	Index No. 232 - Ditch Bottom Inlet - Type C					12" Pipe Cul	vert S/	CD		
1	5-(2)	17+45.77	Lt.	Existing Ditch Bottom Inlet to be Removed -	Connect r	new Pipe			12" Pipe Cul	vert S/	CD		
1	S-(3)	20+29.29	Rt.	Index No. 258 - Rip Rap - Single 18-84 in. L	Dia Pipe, s	see detail :	sheet 10		48" Pipe Cul	vert S,	CD		
1	S-(4)	21+39.52	Rt.	Index No. 232 - Ditch Bottom Inlet - Type H	I with 3 gr	rates 1	7		48" Pipe Cul 24" Pipe Cul 48" Pipe Cul 24" Pipe Cul	vert S, vert S,	CD CD		
1	S-(5)	21+71.26	Rt.	Index No. 258 - Rip Rap - Single 18-84 in. L	Dia Pipe, s	see detail :	sheet 10		48" Pipe Cul	vert S,	CD		
1	S-(6)	487+88.10	Lt.	Index No. 232 - Ditch Bottom Inlet - Type C	6				24" Pipe Cul	vert S,	'CD		
1	S-(7)	487+87.94	Rt.	Index No. 232 - Ditch Bottom Inle - Type C	γ_{Λ}				24" Pipe Cul				
1	C (0)	400 / 40.02	0.	Index No. 272 Cross Drain MEC with 1.4.6		ala Daviad	Cana Dias		24" Pipe Cul				
1	5-(8)	489+48.03	Rt.	Index No. 272 - Cross Drain MES with 1:4 S	stope - Str	igre kouna	conc. Pipe		24" Pipe Cul				
1	5-(9)	577+55.51	Lt.	-					24" Pipe Cul				
1	5-(10)	577+62.87	Lt.	Index No. 201 - Type 8 Manhole (Eccentric C	Cone with	1 or 2-Piec	e Cover, Round Structure	Bottom)	24" Pipe Cul 24" Pipe Cul				
1	S-(11)	578+08.73	Lt.	Index No. 272 - Cross Drain MES with 1:4 S	Slope – Sir	igle Round	Conc. Pipe	1	24" Pipe Cul	vert S,	'CD		
1	S-(12)	460+97.10	Lt.	Index No. 272 - Cross Drain MES with 1:4 S	Slope - Sir	ngle Round	Conc. Pipe		12" Pipe Cul	vert S	CD		
1	S-(13)	461+40.99	Lt.	Index No. 201 - Type 7 Manhole (1 or 2-Piec	ce Cover (Center), Ro	und Bottom)		12" Pipe Cul	vert S	CD		
1	5-(14)	461+84.90	Rt.	Existing End of Pipe					24" Pipe Cul	vert S,	'CD		
1	S-(15)	461+98.83	Rt.	Index No. 232 – Ditch Bottom Inlet – Type C					24" Pipe Cui				
1	S-(16)	462+42.35	Rt.	Existing End of Dino					24" Pipe Culvert S/CD				
1	S-(17)	402+42.33	Lt.		Existing End of Pipe						24" Pipe Culvert S/CD		
1		510+98.19	Lt.	Index No. 272 - Cross Drain MES with 1:4 Slope - Single Round Conc. Pipe					12" Vertical Elliptical Concrete I				
1	5-(19)	543+52.40	Lt.	Index No. 272 - Cross Drain MES with 1:4 Slope - Single Round Conc. Pipe Index No. 272 - Cross Drain MES with 1:4 Slope - Single Round Conc. Pipe					12" Vertical Elliptical Concrete F 12" Vertical Elliptical Concrete F				
1	5-(20)	543+89.38	Lt.	Index No. 272 - Cross Drain MES with 1:4 S		5			12" Vertical				
				PIPE TABLE									
	STR	τ	T		SIZE								
#	#	SIDE		DESCRIPTION	INCHES	LENGTH							
P(1) 5-(2) -27.05 Lt	. 12"	RCP, ROUND	12.0"	9.75'			24		1		
P(2) 5-(3) 45.09 Rt.	48'	RCP, ROUND	48.0"	110.24'					-	1	
P(3) 46.67 Rt.		RCP, ROUND	48.0"	31.74'							
P(4			-	RCP, ROUND	24.0"	75.00'							
P(5			-	CP, ROUND	24.0"	37.91'							
P(6			+	CP, ROUND	24.0"	120.00'			20			-	
P(7				RCP / CMP, ROUND	24.0"	16.99'							
P(8				RCP, ROUND	24.0"	45.86'							
P(9				RCP, ROUND	12.0"	43.89'						,1111	
P(10			-	r RCP, ROUND	24.0" 24.0"	14.25' 44.41'			10		No	<u>`</u> ,	
P(12		_		' x 14" Vertical Elliptical Concrete Pipe	12.0"	44.41			16		- 4	· 1	
	3) 5-(20		-	x 14" Vertical Elliptical Concrete Pipe	12.0"	36.99'				1		N	
				n and is			1		14	110011	ROF	. s SS/C	
				DEVICIONO								111	
E 20	RESPON	D ISE TO COUNT		REVISIONS IPTION DATE IMENTS		DESCRIPT	ION P. BO	E. LICEN. OWMAN C	AVELL, P.E. SE NUMBER ONSULTING	76826 GROUP			





INDIAN RIVER

CR-613

58th AVE

IRC: 1325

FD0T:436416-1-54-01

CATCH BASIN R	
/ TOP=22.16	
/ 12" R.C.P./C.M.P. ц / NORTH INV.=19.42	
/ NORTH INV.=19.42	
21	
RIM 21.50	
21	
22	
AS BUILT S-(2) WEIR AND BLEEDER, INCLUDING ELEVATIONS, MODIFY S-(1) TO MATCH S-(2) HYDRAULICALLY	
REMONPE EXISTINGOBFOBFOBFO DITCH BOTTOM INLET	- BFO
69th STREET 18	
I	1
23	
25	
22.0	
22.0 	$\equiv : \equiv$
E 24	
7	
CAWAL / 20	
//////	
RAIN /	
- 16	
1+00	
14	
= 20' Horizontal = 4' Vertical	
- 4 vertical	
	SHEET NO.
NAGE PLAN AND PROFILE	180

2/19/2020 3:24:31 PM P:\010514 - Indian River County\010514-01-001 (ENG) - Indian River Co - FDR Project\Engineering\Engineering

