SIDEWALK AND DRAINAGE IMPROVEMENT PLANS

FOR

COMPONENTS OF CONTRACT PLANS SET

SIDEWALK AND DRAINAGE IMPROVEMENT PLANS (BARRACO AND ASSOCIATES, INC.) STRUCTURE PLANS (HIGHSPANS ENGINEERING, INC.)

HANCOCK BRIDGE PARKWAY

MOODY ROAD TO U.S. 41

PART OF SECTIONS 10 AND 11, TOWNSHIP 44 SOUTH, RANGE 24 EAST FORT MYERS, LEE COUNTY, FLORIDA

LEE COUNTY COMMISSIONERS

DISTRICT 1. JOHN E. MANNING DISTRICT 2. CECIL L. PENDERGRASS DISTRICT 3. VACANT DISTRICT 4. BRIAN HAMMAN DISTRICT 5 FRANK MANN

COUNTY MANAGER

ROGER DESJARLAIS DIRECTOR OF PUBLIC WORKS

DOUG MEURER

DIRECTOR OF UTILITIES

PAMELA KEYES, P.E.

LEE COUNTY PROJECT MANAGER

ALEJANDRO SLAIBE, P.E.

PERMIT REQUIREMENTS

	AGENCY	STATUS	NOTES
	LEE COUNTY LIMITED REVIEW D.O.	PENDING	-
	S. FLORIDA WATER MANAGEMENT DISTRICT	N/A	-
	F.D.E.P. NOTICE OF INTENT	PENDING	-
	FLORIDA DEPARTMENT OF HEALTH	N/A	-
F	LORIDA DEPT. OF ENVIRONMENTAL PROTECTION	N/A	-
	UNITED STATES COAST GUARD	PENDING	-

NOTE: CONTRACTOR MUST OBTAIN AND KEEP ON FILE A COPY OF ALL PERMITS REQUIRED PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION ACTIVITY

DESIGN TEAM

PROJECT ENGINEER	PROJECT MANAGEMENT
CARL A. BARRACO, P.E.	CHRIS VAN BUSKIRK
DESIGN ENGINEER	PROJECT SURVEYOR
WESLEY S. KAYNE, P.E.	SCOTT A. WHEELER, PSM
LEAD DESIGN TECHNICIAN	SITE PLANNING
JAN BILDZUKEWICZ	-
DESIGN STAFF	LAND PLANNING
WILLIAM SCOTT ENGLISH	-
QUALITY CONTROL	RECORD DRAWINGS
CHDIC //WI DI ICKIDK	DENDING

THESE PLANS MAY HAVE BEEN MODIFIED IN SIZE BY REPRODUCTION. THIS MUST BE CONSIDERED WHEN OBTAINING SCALED DATA.

PROJECT

LOCATION

ALL DIMENSIONS ARE IN FEET.



LOCATION MAP

ALWAYS CALL 811 BEFORE YOU DIG

INDEX OF DRAWINGS

SHEET	DESCRIPTION (BARRACO AND ASSOCIATES, INC.)	XREF	DRAWING NAME
C1.0	COVER SHEET AND LOCATION MAP	-	23404A01.DWG
C1.1	SIGNATURE SHEET	-	23404A01A.DWG
C2.0	STANDARD NOTES, LEGEND AND ABBREVIATIONS	-	23404A02.DWG
C3.0	AERIAL PHOTOGRAPH AND EXISTING CONDITIONS PLAN	-	23404A06.DWG
C3.1	PROJECT NOTES	-	23404A09.DWG
C3.2	SUMMARY OF PAY ITEMS	-	23404A09.DWG
C4.0-C4.1	SECTIONS AND DETAILS	-	23404A18.DWG
C5.0	SIDEWALK AND DRAINAGE PLANKEY SHEET	A,B	23404A29.DWG
C6.0-C6.2	SIDEWALK AND DRAINAGE PLAN	A,B	23404A30.DWG
C7.0-C7.3	DETAILED PAVING, GRADING, AND DRAINAGE PLANS	A,B	23404A35.DWG
C8.0	HANCOCK CREEK BRIDGE FORCEMAIN PLAN AND PROFILE	A,B	23404A36.DWG
C8.1	FORCEMAIN DEFLECTION PLAN AND PROFILE	A,B	23404A36.DWG
C9.0	BRIDGE PAVEMENT AND MARKING PLAN	A,B	23404A37.DWG
C10.0	EROSION CONTROL DETAILS	-	23404A50.DWG
C11.0-C11.1	STORMWATER POLLUTION PREVENTION PLAN	Α	23404A52.DWG
C12.0	UTILITY DETAILS	-	23404A70.DWG
	INDEX OF STRUCTURE PLANS (HIGHSPANS ENGINEERING, INC)		
B-01	KEY SHEET		
B-02	GENERAL NOTES		
B1-01	PLAN AND ELEVATION		
B1-02	TYPICAL SECTION		
B1-03	SUPERSTRUCTURE PLAN		
B1-04	SUPERSTRUCTURE DETAILS		
B1-05	FORCEMAIN CONNECTION DETAILS		
B1-06	REINFORCING BAR LIST		
	FDOT INDEX NO. 511-001		
B1-07 - B1-11			
	FDOT INDEX NO. 521-423		

BASE LINEWORK PLAN 23404A00 DWG

PLAN STATUS

100% SUBMITTAL PLANS 2019-06-28

CIVIL ENGINEERING - LAND SURVEYING

www.barraco.net

2271 McGREGOR BLVD., SUITE 100 POST OFFICE DRAWER 2800 FORT MYERS ELORIDA 33902-2800 PHONE (239) 461-3170 FAX (239) 461-3169

LORIDA CERTIFICATES OF AUTHORIZATIO NGINEERING 7995 - SURVEYING LB-694

EXELEE COUNTY DEPARTMENT OF TRANSPORTATION

> FORT MYERS, FLORIDA 3390: PHONE (239)533-8580 FAX (239)485-8520

HANCOCK BRIDGE **PARKWAY** SIDEWALK AND DRAINAGE **IMPROVEMENTS**

> MOODY ROAD TO U.S. 41

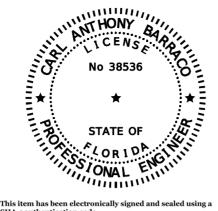
OT DATE ERI 6-28-2019 - 2:07 PM

CROSS REFERENCED DRAWINGS STER = BAI-COVER-1 DWG

100% SUBMITTAL PLANS 2019-06-28

COVER SHEET AND LOCATION MAP

23404 C1.0



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CUEET NO

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ON THE DATE ADJACENT TO THE SEAL

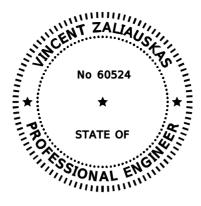
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CARL ANTHONY BARRACO, P.E. P.E. LICENSE NUMBER 38536 BARRACO AND ASSOCIATES, INC. 2271 MCGREGOR BLVD. SUITE 100 FORT MYERS, FL 33901 CERTIFICATE OF AUTHORIZATION NO. 7995

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

CHEET DECCRIPTION

SHEET NO.	SHEET DESCRIPTION
C1.0	COVER SHEET AND LOCATION MAP
C1.1	SIGNATURE SHEET
C2.0	STANDARD NOTES, LEGEND AND ABBREVIATIONS
C3.0	AERIAL PHOTOGRAPH AND EXISTING CONDITIONS PLAN
C3.1	PROJECT NOTES
C3.2	SUMMARY OF PAY ITEMS
C4.0-C4.1	SECTIONS AND DETAILS
C5.0	SIDEWALK AND DRAINAGE PLAN KEY SHEET
C6.0-C6.2	SIDEWALK AND DRAINAGE PLAN
C7.0-C7.3	DETAILED PAVING, GRADING, AND DRAINAGE PLANS
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C10.0	EROSION CONTROL DETAILS
C11.0-C11.1	STORMWATER POLLUTION PREVENTION PLAN
C12.0	UTILITY DETAILS



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ON THE DATE ADJACENT TO THE SEAL

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VINCENT ZALIAUSKAS, P.E. P.E. LICENSE NUMBER 60524 HIGHSPANS ENGINEERING, INC. 2121 MCGREGOR BLVD. SUITE 200 FORT MYERS, FL 33901 CERTIFICATE OF AUTHORIZATION NO. 27559

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

SHEET NO. SHEET DESCRIPTION GENERAL SHEETS

B-01 KEY SHEET B-02 GENERAL NOTES

BRIDGE NO. 124019

PLAN AND ELEVATION B1-01 TYPICAL SECTION B1-02 B1-03 SUPERSTRUCTURE PLAN B1-04 SUPERSTRUCTURE DETAILS B1-05 FORCEMAIN CONNECTION DETAILS B1-06 REINFORCING BAR LIST B1-07 - B1-11 FDOT INDEX NO. 521-001 FDOT INDEX NO. 521-423 B1-12 - B1-14 B1-15 - B1-18 FDOT INDEX. NO. 521-426



CIVIL ENGINEERING - LAND SURVEYING I AND PLANNING

www.barraco.net

2271 McGREGOR BLVD., SUITE 100 POST OFFICE DRAWER 2800 FORT MYERS, FLORIDA 33902-2800 PHONE (239) 461-3170 FAX (239) 461-3169

LORIDA CERTIFICATES OF AUTHORIZATION ENGINEERING 7995 - SURVEYING LB-6940



1500 MONROE STREET FORT MYERS, FLORIDA 33901 PHONE (239)533-8580 FAX (239)485-8520

PROJECT DESCRIPTION

HANCOCK BRIDGE **PARKWAY** SIDEWALK AND DRAINAGE **IMPROVEMENTS**

> MOODY ROAD TO U.S. 41

ENGINEER OF RECORD

CARL A. BARRACO, P.E., FOR THE FIRM FLORIDA P.E. NO. 38536 - CARLB@BARRACO.

WING NOT VALID WITHOUT SEAL, SIGNATURE AND DAT COPYRIGHT 2019, BARRACO AND ASSOCIATES, IN

DCATION J:\23404\DWG\DO\ OT DATE FRI 6-28-2019 - 2:08 PM LOT BY WES KAYNE

CROSS REFERENCED DRAWINGS

PLAN REVISIONS

100% SUBMITTAL PLANS 2019-06-28

SIGNATURE SHEET

PROJECT / FILE NO. SHEET NUMBER

23404

C1.1

STANDARD ABBREVIATIONS

NOTE:	NOTE: SEE FLORIDA DEPARTMENT OF TRANSPORTATION DESIGN STANDARDS INDEX 001 FOR ADDITIONAL ABBREVIATIONS NOT LISTED BELOW.								
AASHTO	AMERICAN ASSOCIATION	CULV.	CULVERT	FIN.	FINISH	MI.	MILE	REL.	RELOCATED
	OF STATE HIGHWAY AND	C.Y.	CUBIC YARD	FL.	FLORIDA	MIN.	MINIMUM	REM.	REMOVED
	TRANSPORTATION OFFICIALS	CYL.	CYLINDRICAL	FLEX.	FLEXIBLE	MISC.	MISCELLANEOUS	REQ.	REQUIRED
ABD.	ABANDONED	D.	DEGREE OF CURVATURE	F.M.	FORCEMAIN	M.L.W.	MEAN LOW WATER	RES.	RESIDENCE
AC.	ACRE	DA.	DAY(S)	F.O.C.	FACE OF CURB	MM.	MILLIMETER	R.M.	REFERENCE MONUMENT
A.D.A.	AMERICANS WITH DISABILITIES ACT	(D)	DEED	F.P.S.	FEET PER SECOND	MOD.	MODIFY OR MODIFIED	R.P.M.	RAISED REFLECTIVE PAVEMENT
ADJ.	ADJUST	D.A.	DRAINAGE AREA	FRAC.	FRACTION	MON. M.O.T.	MONUMENT MAINTENANCE OF TRAFFIC	R.P.B.D.	MARKERS REDUCED PRESSURE BACKFLOW
A.D.T.	AVERAGE DAILY TRAFFIC ACCESS EASEMENT	D.B. D.B.I.	DEED BOOK DITCH BOTTOM INLET	FREQ. FT.	FREQUENCY FOOT OR FEET	M.O.T. M.P.H.	MILES PER HOUR	R.P.B.D.	PREVENTION DEVICE
A.E. A.A.D.T.	ANNUAL AVERAGE DAILY	D.B.I.	DOUBLE	FURN	FURNISH	M.S.L.	MEAN SEA LEVEL	R.R.	RAII ROAD
A.A.D.I.	TRAFFIC	D.C.S.	DEGREE OF CURVATURE (SPIRAL)	G.	GRAM		MANUAL ON UNIFORM TRAFFIC	RT.	RIGHT
AGG.	AGGREGATE	D.D.C.V.	DOUBLE DETECTOR CHECK VALVE	GAI	GALLON		CONTROL DEVICES	R/W	RIGHT OF WAY
A.I.C.P.	AMERICAN INSTITUTE OF CERTIFIED	D.E.	DRAINAGE EASEMENT	GALV.	GALVANIZED	N.	NORTH	S.	SOUTH
	PLANNERS	DECEL.	DECELERATION	GA.	GAUGE OR GAGE	N/A	NOT APPLICABLE	SAN.	SANITARY
ALT.	ALTERNATE	DEMOBL.	DEMOBILIZATION	GAR.	GARAGE	NE.	NORTHEAST	SCH.	SCHEDULE
ALUM.	ALUMINUM	DEN.	DENSITY	GOV'T.	GOVERNMENT	NGVD	NATIONAL GEODETIC VERTICAL	SE.	SOUTHEAST
A.M.	12:00 MIDNIGHT UNTIL 11:59 NOON	DEPT.	DEPARTMENT	GM.	GROSS MILE		DATUM OF 1929	SEC.	SECTION
A.N.S.I.	AMERICAN NATIONAL STANDARDS	DET.	DETOUR	GR.	GUARDRAIL	NAVD	NORTH AMERICAN VERTICAL DATUM	SED.	SEDIMENT
	INSTITUTE	D.H.W.	DESIGN HIGH WATER	GRND.	GROUND		OF 1988	SG.	SPECIFIC GRAVITY
APPL.	APPLICATION	DIA. D.I.P.	DIAMETER DUCTILE IRON PIPE	GV.	GATE VALVE	N.G.S.	NATIONAL GEODETIC SURVEY	SH.	SHEET
ASPH.	ASPHALT ASSEMBLY	D.I.P. DIR.	DIRECTION	H. H.D.	HEIGHT			SHLDR. SHWT	SHOULDER SEASONAL HIGH WATER TABLE
ASSY. A.S.T.M.		DIR. DIST.	DISTANCE	H.D. HDWL.	HIGH DENSITY HEADWALL	N.G.W. NM.	NORMAL HIGH WATER NET MILE	SPEC.	SPECIFICATION
A.S.1.W.	AMERICAN SOCIETY FOR TESTING MATERIALS	D.O.T.	DEPARTMENT OF TRANSPORTATION	HNDRL.	HANDRAIL	N.T.S.	NOT TO SCALE	S.F.	SQUARE FOOT
AUX.	AUXILIARY	DR.	DRIVE	HORIZ.	HORIZONTAL	NW.	NORTH WEST	S.R.	STATE ROAD
AVE.	AVENUE	DRWY.	DRIVEWAY	H.P.	HIGH PRESSURE OR HORSE POWER	O.D.	OUTSIDE DIAMETER	ST.	STREET
AVG.	AVERAGE	D.S.	DESIGN SPEED	H.W.	HIGH WATER	O.E.	OVERHEAD ELECTRIC	STA	STATION
B.E.	BURIED ELECTRIC	D.S.W.T	DRY SEASON WATER TABLE	HWY.	HIGHWAY	OPT.	OPTIONAL	STAB.	STABILITY OR STABILIZATION
B/L.	BASE LINE	DWG.	DRAWING	HYD.	HYDRANT	O.R.	OFFICIAL RECORD BOOK	STD.	STANDARD
BLVD.	BOULEVARD	E.	EAST	I.	EXTERNAL ANGLE (DELTA)	OZ.	OUNCE	STR.	STRUCTURE
B.M.	BENCHMARK	EA.	EACH	I.D.	INSIDE DIAMETER	(P)	PLAT	S.Y.	SQUARE YARD
B.O.C.	BACK OF CURB	E.	RATE OF SUPER ELEVATION	I.E.	INVERT ELEVATION	PAVT.	PAVEMENT	SW.	SOUTHWEST
BOT.	BOTTOM	ED.	EACH DAY	IN.	INCH	P.C.	POINT OF CURVATURE	S/W	SIDEWALK
B.P.	BORROW PIT	E.I.	ENGINEERING INTERN	INC.	INCORPORATED	P.E.	PROFESSIONAL ENGINEER	T.	THICKNESS
BR.	BRIDGE		/. ELEVATION	INCL. I.P.	INCLUDED	PED.	PEDESTRIAN OR PEDESTAL	TAN.	TANGENT
BRG. B.T.	BEARING BURIED TELEPHONE	ELEC. FLLIP	ELECTRIC ELLIPTICAL	I.P. I.R.	IRON PIPE IRON ROD	PG. PGI	PAGE PROFILE GRADE LINE	TWP. T.B.M.	TOWNSHIP TEMPORARY BENCH MARK
BTWN.	BETWEEN	EMBK.	EMBANKMENT	I.R. INSTL.	INSTALL OR INSTALLATION	P.G.L.	PRIVATE IRRIGATION EASEMENT	T.B.D.	TO BE DETERMINED
B/W	BARBED WIRE	ENCI.	ENCLOSURE	INST NO	INSTRUMENT NUMBER	PIV	POST INDICATOR VALVE	T.B.R.	TO BE REMOVED
CALC.	CALCULATED	E.O.P.	EDGE OF PAVEMENT	INT.	INTERSECTION	PH	MEASURE OF ACIDITY	TEL.	TELEPHONE
(C)	CALCULATED	E.O.W.	EDGE OF WATER	INV.	INVERT		OR ALKALINITY	TEMP.	TEMPORARY
CAP.	CAPACITY	EQ.	EQUATION OR EQUAL	J.B.	JUNCTION BOX	P.I.	POINT OF INTERSECTION	TN.	TON
CATV.	CABLE TELEVISION	EQUIP.	EQUIPMENT	JCT.	JUNCTION	PK.	PARKER-KALON	T.U.E.	TECHNOLOGY UTILITY ESMT.
C.B.	CATCH BASIN	E.R.C.P.	ELLIPTICAL REINFORCED	JT.	JOINT	PL.	PROPERTY LINE	TYP.	TYPICAL
CBC.	CONCRETE BOX CULVERT		CONCRETE PIPE	K.	RATE OF VERTICAL CURVATURE	P.M.	12:00 NOON UNTIL 11:59 MIDNIGHT	UG.	UNDERGROUND
CBS.	CONCRETE BOX STRUCTURE	ESMT.	EASEMENT	KM.	KILOMETER	P.O.C.	POINT ON CURVE	U.E.	UTILITY EASEMENT
C/C	CENTER TO CENTER	ETC.	ET CETERA (AND SO FORTH)	KV.	KILOVOLT	P.P.	POWER POLE	USC&GS	UNITED STATES COAST AND
CCMB.	COUNTY COMMISSIONERS	E.W.	ENDWALL	KVA.	KILOVOLT AMPERES	P.R.C.	POINT OF REVERSE		GEODETIC SURVEY
	MINUTES BOOK	EXCAV.	EXCAVATION	L.	LENGTH, LENGTH OF CURVE, LITRE		CURVATURE	USGS	UNITED STATES GEOLOGICAL
CEM. C.F.	CEMENT CUBIC FOOT	EX. EXP.	EXISTING EXPANSION	L.A. LAT.	LIMITED ACCESS LATERAL OR LATITUDE	P.R.M.	PERMANENT REFERENCE	UTIL.	SURVEY UTILITIES
C.F.	CAST IRON	EXP.	EXPANSION EXTENSION	LAI. LB.	POUND OR LICENSED BUSINESS	PROP.	MONUMENT PROPERTY	V.	VOLUME
C.I.P.	CAST IRON PIPE	F.	FILL	L.C.R.	LEE COUNTY RECORDS	P.U.E.	PUBLIC UTILITY EASEMENT	V. VAR.	VARIABLE
C/L	CENTER LINE	F TO F	FACE TO FACE	L.C.K.	LEE COUNTY UTILITIES	P.S.I.	POUNDS PER SQUARE INCH	V.C.	VERTICAL CURVE
CONC.	CONCRETE	FAC.	FLORIDA ADMINISTRATIVE CODE	L.C.U.E.	LEE COUNTY UTILITIES EASEMENT	P.S.M.	PROFESSIONAL SURVEYOR AND	VEH.	VEHICLE
C M	CONCRETE MONUMENT		FLORIDA ACCESSIBILITY CODE FOR	I =	ARCIENGTH	1 .0	MAPPER	V F	VERTICAL FOOT
C.M.P.	CORRUGATED METAL PIPE		BUILDING CONSTRUCTION	LF.	LINEAR FOOT	P.V.C.	POLYVINYL CHLORIDE PIPE	VERT.	VERTICAL
CO.	COUNTY OR COMPANY	F.B.C.	FLORIDA BUILDING CODE	L.M.E.	LAKE MAINTENANCE EASEMENT	PVI.	POINT OF VERTICAL INTERSECTION	VOL.	VOLUME
C/O	CLEANOUT	FD.	FOUND	LOC.	LOCATION	Q.	PEAK DISCHARGE OR FLOW VOLUME	W.	WEST
COL.	COLUMN	F.D.C.	FIRE DEPARTMENT	L.S.	LUMP SUM		(CFS)	WIT.	WITNESS
COM.	COMMERCIAL		CONNECTION	LT.	LEFT	QTY.	QUANTITY	W.M.	WATERMAIN
CONST.	CONSTRUCTION	FDN.	FOUNDATION	M.	MASS	R. or RAD.		X.	COORDINATE DISTANCE (EAST-WEST)
CONTR.	CONTRACTOR	F.D.OT.	FLORIDA DEPARTMENT OF	(M)	MEASURED	RD.	ROAD	XING.	CROSSING
COORD.	COORDINATE	FED.	TRANSPORTATION	MAINT. MAX.	MAINTENANCE	RNG.	RANGE	Y.	COORDINATE DISTANCE
COR.	CORNER CONTROL POINT	FED. FERT.	FEDERAL FERTILIZER	MAX. MFD	MAXIMUM MEDIAN	R.C.P.	REINFORCED CONCRETE PIPE	YR.	(NORTH-SOUTH) YEAR
C.P. C.R.	CONTROL POINT CONTROL RADIUS	F.E.S.	FLARED END SECTION	M.E.S.	MITERED END SECTION	RNG. REC.	RANGE RECORD	rr.	IEAR
C.R.	CONTROL RADIUS CONTROL STRUCTURE	F.F.E.	FINISHED FLOOR ELEVATION	MG.E.S.	MILLION GALLONS	RECT.	RECTANGULAR		
C.S.	CENTER	FH.	FIRE HYDRANT	M.H.	MANHOLE	REINF.	REINFORCED OR		
C.U.E.	COUNTY UTILITY EASEMENT	FHWA.	FEDERAL HIGHWAY ADMINISTRATION	M.H.W.	MEAN HIGH WATER		REINFORCING		
					· ·				

GENERAL NOTES

NOTE: SEE ADDITIONAL NOTES ON SITE DEVELOPMENT PLANS AND DETAIL SHEETS WHICH ARE SPECIFIC TO THIS PROJECT. IN THE EVENT OF A CONFLICT, UTILIZE NOTES ON SITE DEVELOPMENT PLANS.

- THESE PLANS HAVE BEEN PREPARED IN ACCORDANCE WITH AND ARE GOVERNED BY THE FY 2018-19 STANDARD PLANS, 2019 STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, F.D.O.T. DESIGN STANDARDS AND APPLICABLE DESIGN STANDARDS MODIFICATIONS FOUND AT http://www.dot.state.flus/rddesign AND ALL LOCAL CODES.
- ALL ADDROVALS REQUIRED IN CONTRINCTION WITH THESE NOTES MILES BE ORTAINED IN WRITING BY TH THE OWNER ENGINEER AND APPROPRIATE REGULATORY AGENCY
- SECURE GENERAL USE PERMITS AND / OR OTHER PERMITS REQUIRED FOR WORK WITHIN F.D.O.T. RIGHT-OF-WAY
- ALL CONSTRUCTION SHALL COMPLY WITH THE LATEST VERSIONS OF THE AMERICANS WITH DISABILITIES ACT (A.D.A.) AND THE FLORIDA ACCESSIBILITY CODE FOR BUILDING CONSTRUCTION (F.A.C.B.C.), MAXIMUM SLOPE IN ACCESSIBLE PARKING SPACES AND LOADING ZONES SHALL NOT EXCEED 20% IN ALL DIRECTIONS. MAXIMUM FUNNING SLOPE SHALL NOT EXCEED 25% AND LAST SHALL NOT EXCEED 25% ON ALL SIDEWALKS AND CROSSWALKS.
- SIDEWALKS ARE DESIGNED AND INTENDED FOR PEDESTRIAN TRAFFIC ONLY, ALL SIDEWALKS AND CURB CUTS SHALL BE IN ACCORDANCE WITH F D.O.T. STANDARD PLAN INDEX 522-002 AND SHALL INCLUDE DETECTABLE WARRING SUFFACES. VALLEY GUTTER ADJACENT TO CURB CUTS SHALL DEVIATE FROM STANDARD DETAIL BY NOT EXCEEDING 12-13 LOPE FOR RAMP AND ST
- THE CONTRACTOR SHALL NOTIFY THE ENGINEER, OWNER'S REPRESENTATIVE AND APPROPRIATE AGENCY A MINIMUM OF 72 HOURS PRIOR TO ALL INSPECTIONS REQUIRED BY THE RESPECTIVE PERMIT
- THE CONTRACTOR SHALL NOTIFY THE OWNER AND CONTACT ALL UTILITY COMPANIES FOR LOCATIONS OF EXISTING UTILITIES A MININUM OF 72 HOURS PRIOR TO COMMENCING CONSTRUCTION. CONTRACTOR SHALL DETERMINE IF UTILITIES OTHER THAN THOSE SHOWN ON THESE PLANS EXIST. THE LOCATION OF EXISTING UTILITIES, PAYEMENT, VEGETATION AND OTHER IMPROVEMENTS ARE APPROXIMATE ONLY. THE EXACT SIZES, ELEVATIONS AND LOCATIONS SHALL BE VERIFIED BY THE CONTRACTOR IN THE FIELD PRIOR TO COMMENCING CONSTRUCTION OR ORDERING MATERIALS. CONTRACTOR SHALL NOTIFY ENGINEER / OWNER OF ANY DISCREPANCIES PRIOR TO CONSTRUCTION.
- EXISTING IMPROVEMENTS SHALL REMAIN UNLESS NOTED OTHERWISE. AND SHALL BE RESTORED TO A CONDITION EQUIVALENT TO THAT WHICH EXISTED PRIOR TO COMMENCING CONSTRUCTION, AT NO ADDITIONAL COST TO THE OWNER. EXISTING OFF-SITE DRAINAGE PATTERNS SHALL BE MAINTAINED DURING CONSTRUCTION.
- THE CONTRACTOR SHALL OBTAIN ANY CLEARING, VEGETATION REMOVAL OR RIGHT-OF-WAY PERMITS REQUIRED FOR THIS PROJECT. ALL DEBRIS SHALL BE REMOVED FROM SITE AND PROPERLY DISPOSED OF.
- CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING TRAFFIC AND USAGE OF THE EXISTING STREETS ADJACENT TO THE PROJECT. ALL TRAFFIC MAINTENANCE CONTROL SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE FLORIDA MANUAL OF TRAFFIC CONTROL AND SAFE PRACTICES FOR STREET CONSTRUCTION, MAINTENANCE, AND LITLITY OPERATIONS CONTRACTOR SHALL ASSURE THAT ALL TRAFFIC CONTROL DEVICES. MEET ACCEPTABLE STANDARDS AS OUTLINED IN THE LATEST EDITION OF THE AMERICAN TRA MICE I ACCEPTABLE 3 INNOVATION OF UTILIED WITH EARLIST LEUTION OF THE AMERICAN TO STOTE ASSET.

 SERVICES ASSOCIATION (ATSSA'S) QUALITY STANDARDS FOR WORK ZONE TRAFFIC CONTROL DEVICES? AND SHALL

 IMMEDIATELY REPAIR, REPLACE OR CLEAN DAMAGED, DEFACED OR DIRTY DEVICES. TRAFFIC CONTROL OPERATION

 PROCEDURES SHALL BE SUBMITTED TO OWNER FOR APPROVAL PRIOR TO BEGINNING CONSTRUCTION. ANY

 IMPACTS TO TRAFFIC FLOW SHALL BE COORDINATED WITH AND APPROVED BY THE APPROPRIATE LOCAL AGENCY.
- CONTRACTOR SHALL VERIEVALL DIMENSIONS AND FLEVATIONS PRIOR TO COMMENCEMENT OF CONSTRUCTION ANY DISCREPANCIES SHALL BE IMMEDIATELY REPORTED TO THE ENGINEER AND OWNER'S REPRESENTATIVE
- THE LOCATIONS OF PROPOSED DRAINAGE STRUCTURES AND UTILITY LINES MAY BE FIELD ADJUSTED TO PRESERVE EXISTING VEGETATION AS APPROVED IN ADVANCE BY THE ENGINEER. UNDERGROUND CONTRACTOR SHALL MINIMIZE THE WORK AREA AND WIDTH OF TRENCHES TO AVOID DISTURBANCES OF NATURAL VEGETATION. EXERCISE CARE TO PROTECT THE ROOTS OF TREES TO REMAIN. WITHIN THE BRANCH SPREAD OF SUCH TREES, ERFORM ALL TRENCHING BY HAND. OPEN THE TRENCH ONLY WHEN UTILITIES CAN BE INSTALLED IMMEDIATEL PERFORM ALL I RENORING BY HAND, OPEN THE I RENORTHOUT WHEN OILLINGS CAN BE INSTALLED INMEDIALELY. PRUNE INJURIED ROOTS CLEANLY AND BACKFILL AS SOON AS POSSIBLE, SPOL FROM TRENCHES SHALL BE PLACED ONLY ON PREVIOUSLY CLEARED AREAS OR AS DIRECTED BY THE OWNER. CONTRACTOR SHALL NOT REMOVE OR DISTURB ANY TREES AND/OR SHRUBS WITHOUT PRIOR APPROVAL BY OWNER.
- INSTALLATION OF SUBSURFACE CONSTRUCTION. INCLUDING BUT NOT LIMITED TO WATER, SEWER AND IRRIGATION LINES, PUBLIC UTILITIES AND STORM DRAINAGE IS REQUIRED PRIOR TO COMPACTION OF THE ROADWAY SUBGRADE
- SUBGRADE AND LIMEROCK BASE COURSES TO BE COMPACTED TO 98% MINIMUM OF THE MAXIMUM DRY DENSITY AS SPECIFIED BY ASSHITD T-180 TESTING. CONTRACTOR SHALL PROVIDE THE ENGINEER SATISFACTORY DENSITY TESTS FOR SUBGRADE AND LIMEROCK PRIOR TO PAYMENT OR FINAL ACCEPTANCE. EXCESS ROAD BASE AND COMPACTED SOIL SHALL BE REMOVED FROM ALL LANDSCAPE AREAS PRIOR TO FINAL GRADING.

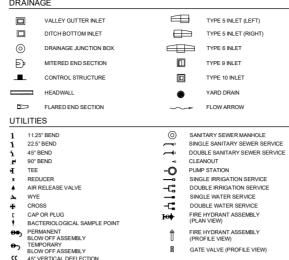
- SWALE ELEVATIONS SHOWN ARE TO TOP OF SOD. CONTRACTOR TO ADJUST SWALE GRADING ACCORDINGLY. ALI SURPAVED AREAS SHALL BE GRADED TO DRAINTO THE DRAININGE SYSTEM TO PREVENT STANDING WATER. YARD DRAINED AREAS SHALL BE GRADED TO DRAINTO THE DRAINING SYSTEM TO PREVENT STANDING WATER. YARD DRAINING MAY BE ADDED IN GREEN AREAS AS NECESSARY AT THE DRECTION OF THE LANDSCAPE ARCHITECT OR ENGINEER, AND SHALL HAVE PEDESTRAIN-SAPE GRATES MEETING THE REQUIREMENTS OF TA-2D LOADING.
- BERM ELEVATIONS SHOWN ARE THE MINIM IM REQUIRED. CONTRACTOR MAY EXCEED THE MINIM IM BER ELEVATION BY UP TO 0.5 FEET PROVIDED ALL SLOPE CRITERIA IS MET. ANY CONSTRUCTION OF BERMS IN EXCESS OF THAT LIMIT MUST BE APPROVED BY THE ENGINEER PRIOR TO CONSTRUCTION.
- 19. THE CONTRACTOR IS REQUIRED TO ADJUST ALL EXISTING AND PROPOSED VALVE BOXES, MANHOLE RIMS, GRATES AND OTHER IMPROVEMENTS AS REQUIRED TO MATCH THE FINAL GRADE.
- THE CONTRACTOR SHALL COORDINATE WITH THE OWNERS REPRESENTATIVE IN REGARDS TO THE LOCATION, SIZE AND QUANTITY OF ALL CONDUITS FOR UTILITIES, IRRIGATION, LIGHTING AND OTHER IMPROVEMENTS PRIOR TO CONSTRUCTION OF THE ROADWAY SUBGRADE CASING AND/OR CONDUIT SHALL HAVE A MINIMUM OF 30° COVER, EXTEND 5' BEYOND THE EDGE OF PAVEMENT, BACK OF CURB AND/OR SIDEWALK AT EACH END, AND ENDS SHALL BE
- CONTRACTOR SHALL NOTIFY THE ENGINEER 24 HOURS PRIOR TO PLACING SOD ON AREAS THAT REQUIRE CRITICA MINIMUM OR MAXIMUM ELEVATIONS IN ORDER FOR ENGINEER TO VERIFY SUCH ELEVATIONS. THE OBLIGATION TO ACHIEVE MINIMUM ELEVATIONS REMAINS WITH THE CONTRACTOR.
- 22. THE CONTRACTOR SHALL REMOVE ALL UNSUITABLE MATERIAL ENCOUNTERED FROM FILL AREAS PRIOR TO PLACEMENT OF FILL, AND SUCH MATERIAL SHALL BE STOCKPILED OR REMOVED AS DIRECTED BY OWNER.
- THE PROPERTY OWNER OR DESIGNATED AUTHORITY IS RESPONSIBLE FOR THE PERPETUAL MAINTENANCE OF A FEATURES OF THE SURFACE WATER MANAGEMENT SYSTEM AS SHOWN IN THESE DRAWINGS AND AS REQUIRED LOCAL STATE AND FEDERAL PERMITS. IT IS FURTHER RECOMMENDED THAT THE SURFACE WATER MANAGEMENT SYSTEM BE INSPECTED SEMI-ANNUALLY.
- CONTRACTOR SHALL VERIFY DESIGN DETAILS WITH ENGINEER PRIOR TO ORDERING STRUCTURES. STRUCTURE TYPES LABELED ON THE PLANS FOR TIEMS SUCH AS JUNCTION BOXES AND INLETS MAY ONLY BE A REFERENCE TO THE TOP OF THE STRUCTURE CEPTAN STRUCTURE TYPES REQUIRE A LAGGER BOTTOM TO ACCOMMODATE LARGER PIPE SUZES AND/OR PIPE ANGLES. THE APPROPRIATE SIZE AND SHAPE OF THE BOTTOM OF THE STRUCTURE SHALL BE DETERMINED BY THE CONTRACTOR WITH CONSIDERATION GIVEN TO ADJACENT EXISTING OR PROPOSED UTILITIES. THE COST FOR THE ENTIRE STRUCTURE IS INCLUDED IN THE UNIT PRICE FOR THE PRIMARY STRUCTURE.
- SANITARY SEWER PIPE LENGTHS ARE APPROXIMATE AND ARE MEASURED FROM THE CENTER OF STRUCTURE
- TRACTOR SHALL MAINTAIN MINIMUM SEPARATION BETWEEN UTILITIES AS SHOWN ON "UTILITY LOCATION NIL" AND IN ACCORDANCE WITH APPLICABLE LOCAL UTILITY SERVICE PROVIDER REQUIREMENTS.
- ALL COMPONENTS OF THE POTABLE WATER SYSTEM SHALL BE IN CONFORMANCE WITH AMERICAN NATIONAL POTABLE WATER SYSTEM SHALL BE IN ACCORDANCE WITH ALL A.W.W.A. APPLICABLE STANDARDS.
- CONTRACTOR TO COORDINATE WITH ALL OTHER CONTRACTORS WORKING ON THE PROJECT SITE. THE OWNER
- 29. DEFLECTION TESTING IN ACCORDANCE WITH TECHNICAL SPECIFICATIONS FOR GRAVITY SEWER MAY NOT B UNDERTAKEN UNTIL 30 DAYS AFTER FINAL BACKFILLING OF THE TRENCH IS COMPLETE. SEWER DEFLECTION MAY NOT EXCEED THE MAXIMUM PROVIDED IN THE TECHNICAL SPECIFICATIONS OR 5%, WHICHEVER IS LESS.
- ALL GRAVITY SEWER MAINS SHALL RETESTED WITH A MANDREL WITH A DIAMETER OF NOT LESS THAN 95% OF THE INSIDE PIPE DIAMETER. MANDREL TESTS MUST BE PERFORMED WITHOUT USE OF MECHANICAL PULLING DEVICES
- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE FLORIDA FIRE CODE. SEPARATE PERMITS MAY BE REQUIRED FOR ANY DEDICATED FIRE LINE. UNDERGROUND FIRE LINES MUST MEET REQUIREMENT OF NFPA 24. CONTRACTOR TO VERIFY FIRE LINE SIZE WITH BUILDING PLANS PRIOR TO CONST.

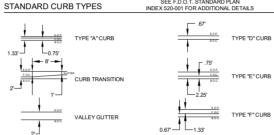
SYMBOL LEGEND

NOTE: THE SYMBOLS REPRESENTED BELOW ARE STANDARDS UTILIZED BY THIS FIRM AND NOT ALL ARE REQUIRED FOR THE SUBJECT PROJECT.

GATE VALVE

PLUG VALVE





SEE F.D.O.T. STANDARD PLAN

RIGHT ONLY

I FET OR RIGHT

STRAIGHT OR LEFT

STRAIGHT, LEFT OR RIGHT

BAR SCALE

FOM SANITARY SEWER VALVE

BENCH MARK

SIGNAGE AND MARKINGS D PLAN INDEX 711-001 FOR ADDITIONAL DETAILS

MANAGEMENT DISTRICT STAFF

HANDICAP SYMBOL MODEL HOMES, MODEL UNITS, MODEL DISPLAY CENTERS

BUILDING ID NUMBER

STRAIGHT **-**(10) SECTION LABEL NORTH ARROW

D1-1 STORM STRUCTURE I.D. XXX SANITARY STRUCTURE I.D.

LOT NUMBER

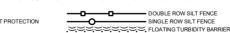
IDENTIFICATION

(69)

FH FIRE HYDRANT LABEL SOIL BORING LOCATION

FROSION CONTROL

NOTE: SEE EROSION CONTROL DETAILS FOR ADDITIONAL INFORMATION.



SURVEYING

▲ FOUND NAIL AS NOTED GAS LINE MARKER SET 1/2" IRON ROD WITH CAP STAMPED LB6940 TELEPHONE RISER SET 4"x4" CONC. MONUMENT STAMPED LB6940 WATER BOX SET P.K. NAIL WITH DISC. STAMPED LB6940. EL EL ECTRIC BOX ■ FOUND CONC. MONUMENT AS NOTED σ SIGN FIRE HYDRANT FOUND IRON PIPE OR IRON ROD AS NOTED DRAINAGE INLET WATER VALVE DRAINAGE MANHOLE (\$) SANITARY MANHOLE MITERED END SECTION 000 SANITARY CLEAN OUT

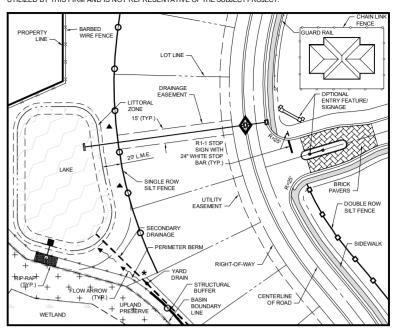
LIGHT POLE CONCRETE POWER POLE WOOD POWER POLE

QUANTITIES AND PAYMENT

CONTRACTOR SHALL REFER TO THE BID TABULATION AND PROJECT TECHNICAL SPECIFICATIONS FOR NOTES REGARDING THE METHOD OF PAYMENT FOR SPECIFIC PAY ITEMS. ITEMS NOT SPECIFICALLY REFERENCED IN THE SPECIFICATIONS OR BID TABULATION SHALL BE PAID FOR PER THE LATEST VERSIONS OF THE APPROPRIATE F.D.O.T. DESIGN STANDARDS INDEX AND F.D.O.T. STANDARD SPECIFICATION SECTION

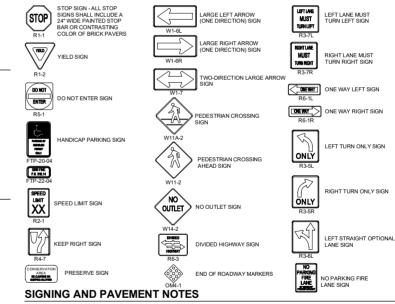
LINETYPE AND HATCHING LEGEND

NOTE: THE DRAWING BELOW IS PROVIDED AS ONLY AN EXAMPLE OF STANDARD LINETYPES AND HATCHING UTILIZED BY THIS FIRM AND IS NOT REPRESENTATIVE OF THE SUBJECT PROJECT.



STANDARD STREET SIGNS

THE SIGN LEGEND BELOW IS PROVIDED AS A GRAPHICAL REFERENCE TO ONE OR MORE OF THE SIGNS REQUIRED SHOULD BE REFERENCED FOR SPECIFIC DETAILS AND LOCATION REQUIREMENTS



- ALL SIGNING AND PAVEMENT MARKINGS SHALL BE IN ACCORDANCE WITH THE 2018-2019 F.D.O.T. STANDARDS FOR ROAD AND BRIDGE CONSTRUCTION, THE 2019 F.D.O.T. DESIGN STANDARDS INDEX, THE 2018-2019 MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MULT.C.D.) AND ALL APPLICABLE LOCAL STANDARDS. UTILIZATION OF THE 2009 MULT.C.D. SHALL BE IN ACCORDANCE WITH F.D.O.T.
- 2. DIRING CONSTRUCTION, THE CONTRACTOR SHALL COMPLY WITH THE "STATE OF FLORIDA MANUAL OF TRAFFIC CONTROL AND SAFE PRACTICES FOR STREET AND HISHWAY CONSTRUCTION, MANTENANCE, AND UTILITY OPERATIONS" AND WITH THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" AND WITH ALL OTHER GOVERNING SAFETY REGULATIONS.
- PAVEMENT MARKINGS SHALL REPERMANENT REFLECTIVE TRAFFIC PAINT WITH GLASS READS IN ACCORDANCE WITH FINOT VISE PERMANENT PAVEMENT MARKINGS WITHIN F.D.O.T. RIGHT-OF-WAY SHALL BE THERMOPLASTIC UNLESS NOTED OTHERWISE.
- 5. ALL STOP SIGN LOCATIONS SHALL INCLUDE A 24" PAINTED WHITE STOP BAR. AS AN ALTERNATIVE, ROADS WITH PAVER BRICK SURFACES MAY UTILIZE CONTRASTING COLOR PAVERS IN LIEU OF PAINT.
- 7. THE CONTRACTOR SHALL PROVIDE AND INSTALL BLUE / BLUE REFLECTIVE PAVEMENT MARKERS AT THE CENTER OF THE TRAFFIC LANG
- NEAREST ALL PROPOSED FIRE HYDRANTS.
- STANDARD INDEXES 11860 AND 17302 FOR HEIGHT, OFFSET AND METHOD OF INSTALLATION. ANY SIGNS DAMAGED BY CONTRACTOR SHALL BE REPLACED AT THE EXPENSE OF THE CONTRACTOR.
- 10. ALL SIGNS THAT ARE EMBEDDED IN CONCRETE OR ASPHALT SHALL BE INSTALLED IN A FID OIT APPROVED PIPE SLEEVE

NOTE: NOT ALL GENERAL NOTES, ABBREVIATIONS, SYMBOLS OR OTHER STANDARDS SHOWN ON THIS SHEET MAY BE APPLICABLE TO THIS PROJECT.

Darraco and Associates, Inc

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FORT MYERS, FLORIDA 33901 PHONE (239)533-8580 FAX (239)485-8520

HANCOCK BRIDGE PARKWAY SIDEWALK AND DRAINAGE **IMPROVEMENTS**

> MOODY ROAD TO US 41

ENGINEER OF RECORD CARL A. BARRACO, P.E., FOR THE FIRM LORIDA P.E. NO. 38536 - CARLB@BARRACO

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I E NAME 23404A02 DW DCATION J:\23404\DWG\DO\ OT DATE FRI 6-28-2019 - 2:08 PM OT BY WES KAYNE

CROSS REFERENCED DRAWINGS

PLAN REVISIONS

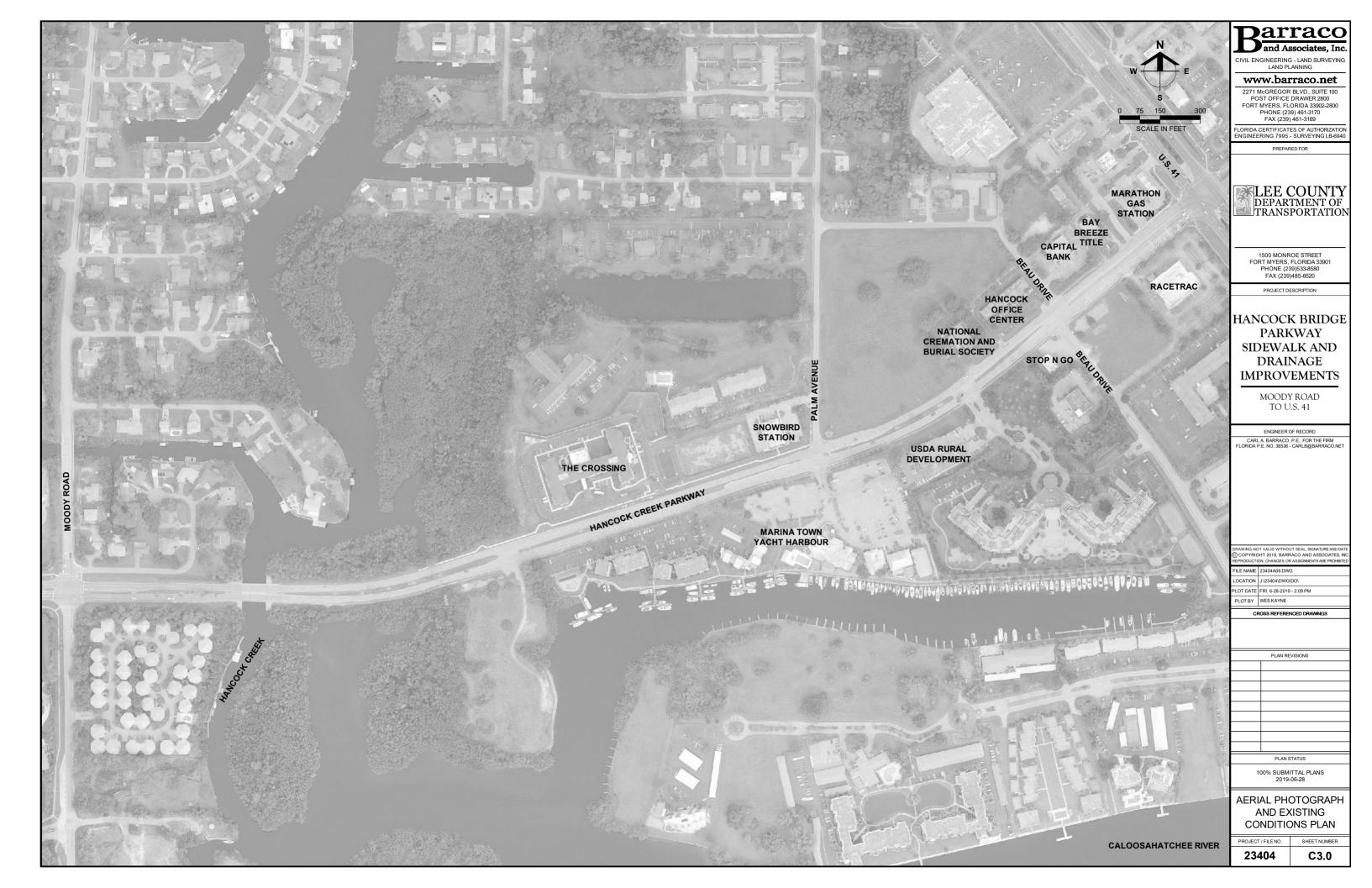
PLAN STATUS

100% SUBMITTAL PLANS 2019-06-28

STANDARD NOTES. LEGEND. AND **ABBREVIATIONS**

PROJECT / FILE NO. SHEET NUMBER

23404 C2.0



GENERAL PROJECT NOTES:

- . ELEVATIONS REFER TO NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).
- PROPOSED VALVES, BLOW-OFFS AND OTHER UTILITY APPURTENANCES SHALL NOT BE LOCATED WITHIN PROPOSED OR EXISTING SIDEWALKS UNLESS SPECIFICALLY APPROVED BY LEF COLINITY LITHINGS.
- 3. THE MINIMUM DEPTH OF COVER FOR ALL BURIED PIPE SHALL BE 30 INCHES, 36 INCHES UNDER PAVEMENT WITH A MAXIMUM DEPTH OF 48 INCHES.
- ALL EXISTING MAINS TO BE TAKEN OUT OF SERVICE SHALL BE GROUTED IN PLACE UNLESS OTHERWISE NOTED.
- 5. THE CONTRACTOR SHALL REFERENCE LEE COUNTY SPECIFICATIONS AND LEE COUNTY WATER AND SEWER EXTENSION POLICY FOR ADDITIONAL REQUIREMENTS
- WHERE TRACER WIRE DOES NOT PROVIDE ACCURATE SIGNAL FOR LOCATION OF EXISTING WATERMAIN OR FORCEMAIN PIPE SOFT DIG HOLE EVERY 100 FEET TO LOCATE PIPE
- BETWEEN AIR RELEASE VALVES THERE SHALL BE NO HIGH POINTS IN PIPE. CONTRACTOR SHALL ADJUST PIPE DEPTH OF COVER AS NECESSARY TO MEET THIS REQUIREMENT.
- 8. ALL DISTURBED AREAS SHALL RECEIVE SOD UPON COMPLETION OF CONSTRUCTION.
- PAVEMENT AND SIDEWALK DAMAGED BEYOND THE LIMITS SHOWN SHALL BE REPAIRED BY THE CONTRACTOR. REPAIRS SHALL INCORPORATE THE ENTIRE LENGTH OF DAMAGE FOR THE FULL WIDTH OF A TRAVEL LANE. NO ADDITIONAL COMPENSATION SHALL BE MADE
- DRIVEWAY AND SIDEWALK REPLACEMENT SHALL BE FROM EDGE OF PAVEMENT / CONCRETE TO THE NEAREST EXPANSION JOINT OR RIGHT-OF-WAY LINE, WHICHEVER IS CLOSEST TO INSTALLED UTILITY.
- 11. TREES THAT ARE REPLACED IN-KIND SHALL BE PLACED AT THE DIRECTION OF THE ENGINEER, BUT SHALL NOT BE PLANTED DIRECTLY OVER THE NEWLY INSTALLED UTILITY.
- 12. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY WASTEWATER SPILLS THAT OCCUR DURING CONSTRUCTION AND FOR ASSOCIATED MONETARY FINES FROM STATE REGULATORY AGENCIES
- 13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL AND DISPOSAL OF ALL WASTE MATERIAL TO INCLUDE EXCESS SPOILS, DRILLING FLUID, DEMOLITION DEBRIS AND ROCK. CONTRACTOR SHALL TRANSPORT AND DISPOSE OF ALL MATERIAL AT AN OFF-SITE FACILITY MEETING ALL LOCAL, STATE AND FEDERAL REQUIREMENTS.
- 14. CONTRACTOR TO COORDINATE BRACING, PROTECTION AND OR RELOCATION OF EXISTING UTILITIES WITH THE UTILITY OWNER. ANY COST ASSOCIATED WITH THESE UTILITIES IS CONSIDERED INCIDENTAL TO THE PIPE INSTALLATION AND SHALL BE BORNE BY THE CONTRACTOR NO ADDITIONAL COMPENSATION SHALL BE MADE.
- 15. ALL EXISTING MAINS WHICH ARE TO BE REPLACED AS PART OF THIS PROJECT SHALL BE REMOVED WHERE PRACTICAL. ANY EXISTING MAINS NOT DEPICTED IN THESE PLANS WHICH ARE UNCOVERED DURING CONSTRUCTION SHALL BE REMOVED OR GROUTED IN PLACE, AS DIRECTED BY THE ENGINEER OF RECORD, ONCE PROPOSED REPLACEMENT MAIN IS PUT INTO SERVICE.
- 16. ALL ASBESTOS CONCRETE PIPE TO BE REMOVED AND DISPOSED OF SHALL BE PERFORMED BY A CONTRACTOR LICENSED AND CERTIFIED TO DO SO AND SHALL BE DONE IN ACCORDANCE WITH ALL LOCAL, STATE AND FEDERAL REGULATIONS, INCLUDING, BUT NOT LIMITED TO, THOSE OF F.D.E.P., O.S.H.A., AND F.D.O.T.
- 17. REQUIRED CONSTRUCTION STAKING BY A LICENSED STATE OF FLORIDA P.S.M. SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. COST OF CONSTRUCTION STAKING SHALL BE PAID FOR UNDER MISC. BID TABULATION ITEMS, AND NO ADDITIONAL PAYMENT SHALL BE MADE FOR THIS SERVICE.
- 18. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO MAINTAIN CONTINUOUS OPERATION OF ALL TRAFFIC SIGNALS, STREET LIGHTING, IRRIGATION SYSTEMS, DRAINAGE SYSTEMS, AND ANY OTHER ABOVE GROUND OR UNDERGROUND UTILITIES WITHIN THE CONSTRUCTION LIMITS OR FACILITIES AFFECTED BY CONSTRUCTION.
- 19. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO MAINTAIN PEDESTRIAN ACCESS WITHIN THE CONSTRUCTION LIMITS. IF NOT FEASIBLE DUE TO SAFETY CONCERNS, AND UPON APPROVAL, THE CONTRACTOR MAY PROVIDE PROPER SIGNAGE AND CONTROLS TO CLOSE LIMITED SIDEWALKS WITHIN THE RIGHT-OF-WAY. CLOSURE SHALL BE AT THE COST OF THE CONTRACTOR AND DETOURS MUST BE PROVIDED TO DIRECT AND RE-DIRECT PEDESTRIAN PATTERNS AT CONTROLLED INTERSECTIONS.
- 20. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO OBTAIN STILL PHOTOS AND VIDEO TAPING OF THE ENTIRE PROJECT LIMITS OF ALL EXISTING AND NEAR FACILITIES WITHIN THE CONSTRUCTION WORK AREA. COPIES OF THE COMPLETE REPORT SHALL BE REQUIRED PRIOR TO THE START OF CONSTRUCTION.
- 21. CONTRACTOR SHALL INSTALL ADA DETECTABLE WARNING MATS AT ALL LOCATIONS INDICATED WITHIN THE DESIGN PLANS AND SIDEWALK CONNECTIONS IMPACTED DUE TO CONSTRUCTION. DETECTABLE WARNING DEVICES MUST BE ANCHORED AND INSET IN CONCRETE
- 22. EXISTING UTILITIES, DRAINAGE, AND FEATURES DEPICTED IN THIS PLAN SET ARE BASED ON A COMBINATION OF THE BEST AVAILABLE INFORMATION, SURVEY DATA, LEE COUNTY UTILITY RECORD DRAWINGS, AND AERIAL INTERPRETATION.
- CONTRACTOR TO VERIFY HORIZONTAL AND VERTICAL LOCATION OF ALL EXISTING UTILITIES, DRAINAGE, FEATURES, STRUCTURES, AND APPURTENANCES PRIOR TO COMMENCEMENT OF CONSTRUCTION.
- 24. PROPOSED FITTINGS ON PRESSURIZED MAINS ARE PLACED AS SHOWN AT BENDS. ADDITIONAL BENDS MAY BE REQUIRED TO BEND MAINS AS SHOWN. IF ANY ADDITIONAL BENDS ARE INSTALLED, CONTRACTOR TO INSTALL LOCATE PIPES FOR LOCATION ON RECORD DRAWINGS.

- 25. CONTRACTOR SHALL PROVIDE LOCATE STAND PIPES FOR SURVEY LOCATES. LOCATES ARE REQUIRED FOR ALL FITTINGS, ALL CHANGES IN ELEVATION AND DIRECTION, AND EVERY 100' ALONG THE INSTALLED WATERMAIN TO BE SHOWN ON RECORD DRAWINGS AT THE COMPLETION OF CONSTRUCTION.
- 26. ALL PROPOSED H.D.P.E. PIPE SHALL BE DUCTILE IRON PIPE SIZE (D.I.P.S.)
- 37. ALL OF THE REPLACED SIDEWALKS SHALL BE A MIN. OF 5' IN WIDTH

MAINTENANCE OF TRAFFIC:

THESE NOTES ARE FOR WORK IN LEE COUNTY DEPARTMENT OF TRANSPORTATION (LCDOT) RIGHT-OF-WAYS ONLY

- MAINTENANCE OF TRAFFIC (M.O.T.) PLANS ARE REQUIRED TO BE SUBMITTED BY THE CONTRACTOR FOR VEHICULAR AND PEDESTRIAN TRAFFIC. THIS PLAN SHOULD BE SUBMITTED AND APPROVED BY THE L.C.D.O.T. AT LEAST 14 DAYS PRIOR TO MOBILIZATION. M.O.T. PLANS SHALL INCLUDE, BUT NOT LIMITED TO, DETAILS OF ALLOWED LANE CLOSURES, PEDESTRIAN ACCESS CLOSURES, AND HOURS OF OPERATION.
- ACCESS FOR LOCAL TRAFFIC WITH DESTINATIONS WITHIN THE PROJECT LIMITS SHALL BE MAINTAINED. IF DURING CONSTRUCTION ACCESS FOR LOCAL TRAFFIC IS CHANGED, THE CONTRACTOR SHALL NOTIFY THE L.C.D.O.T. A MINIMUM OF THREE (3) WORKING DAYS IN ADVANCE. IF DURING CONSTRUCTION ROAD CLOSURES ARE REQUIRED AND APPROVED BY LEE COUNTY, THE CONTRACTOR SHALL NOTIFY THE L.C.D.O.T. A MINIMUM OF FIVE (5) WORKING DAYS IN ADVANCE.
- 3. PRIOR TO COMMENCING WORK, THE CONTRACTOR SHALL FURNISH, ERECT AND MAINTAIN ALL BARRICADES, WARNING SIGNS, AND MARKINGS FOR HAZARDS AND THE CONTROL OF TRAFFIC, IN REASONABLE CONFORMITY WITH THE U.S. DEPARTMENT OF TRANSPORTATION MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS, OR AS DIRECTED BY THE L.C.D.O.T., SUCH AS TO EFFECTIVELY PREVENT ACCIDENTS IN ALL PLACES WHERE THE WORK CAUSES OBSTRUCTION TO THE NORMAL TRAFFIC PATTERN OR CONSTITUTES IN ANY WAY A HAZARD TO THE PUBLIC.
- THE CONTRACTOR SHALL COORDINATE AND OBTAIN APPROVAL FOR ALL LANE CLOSURES WITHIN LEE COUNTY RIGHT-OF-WAYS WITH L.C.D.O.T. A MINIMUM OF 14 DAYS PRIOR TO THE REQUIRED CLOSINGS.

SUBSURFACE INVESTIGATION:

- BIDDERS SHOULD VISIT THE SITE AND ACQUAINT THEMSELVES WITH ALL EXISTING
 CONDITIONS. PRIOR TO BIDDING, BIDDERS MAY MAKE THEIR OWN SUBSURFACE
 INVESTIGATIONS (AS APPROVED BY THE COUNTY) TO SATISFY THEMSELVES AS TO SITE
 AND SUBSURFACE CONDITIONS, BUT ALL SUCH INVESTIGATIONS SHALL BE PERFORMED
 UNDER TIME SCHEDULES AND ARRANGEMENTS APPROVED IN ADVANCE BY THE OWNER.
- ALL COSTS OF ROCK EXCAVATION SHALL BE INCLUDED IN THE APPROPRIATE ITEMS OF WORK CONTAINED WITHIN THE CONTRACT. NO EXTRA COMPENSATION OR TIME EXTENSION WILL BE ALLOWED FOR ADDITIONAL WORK DIRECTLY OR INDIRECTLY ASSOCIATED WITH THE PRESENCE, SPLITTING, EXCAVATING, CRUSHING, DISPOSAL, REPLACEMENT OF DISPLACED VOLUME OF EXTRACTED ROCK WITH FILL MATERIAL OR SPECIAL HANDLING OF ROCK

SIGNING AND PAVEMENT MARKING NOTES:

- DURING CONSTRUCTION, THE CONTRACTOR SHALL COMPLY WITH THE LATEST EDITIONS OF THE
 "STATE OF FLORIDA MANUAL OF TRAFFIC CONTROL AND SAFE PRACTICES FOR STREET AND HIGHWAY
 CONSTRUCTION, MAINTENANCE, AND UTILITY OPERATIONS" AND WITH THE "MANUAL ON UNIFORM
 TRAFFIC CONTROL DEVICES" AND WITH ALL OTHER GOVERNING SAFETY REGULATIONS.
- 2. ALL ROADWAY SIGNING AND PAVEMENT MARKINGS, STREET NAME SIGNS, ETC. (EXCLUDING PROJECT IDENTIFICATION SIGNING) ARE TO BE INCLUDED IN THE LUMP SUM PRICE FOR SIGNING AND MARKING LINI ESS A DETAILED BID QUIANTITY BREAKDOWN IS PROVIDED.
- ANY EXISTING SIGN TO REMAIN THAT IS RELOCATED OR DISTURBED DURING CONSTRUCTION SHALL BE RESET TO CURRENT F.D.O.T. STANDARD PLAN INDEXES 700-010 AND 700-101 FOR HEIGHT, OFFSET AND METHOD OF INSTALLATION. ANY SIGNS DAMAGED BY CONTRACTOR SHALL BE REPLACED AT THE EXPENSE OF THE CONTRACTOR.
- ALL SIGNS THAT ARE EMBEDDED IN CONCRETE OR ASPHALT SHALL BE INSTALLED IN A F.D.O.T. APPROVED PIPE SLEEVE.

QUANTITIES AND PAYMENT:

 CONTRACTOR SHALL REFER TO THE BID TABULATION AND PROJECT TECHNICAL SPECIFICATIONS FOR NOTES REGARDING THE METHOD OF PAYMENT FOR SPECIFIC PAY ITEMS.

GENERAL NOTES:

NOTE: SEE ADDITIONAL NOTES ON SUBSEQUENT PLAN SHEETS WHICH ARE SPECIFIC TO THIS PROJECT. IN THE EVENT OF A CONFLICT, UTILIZE NOTES ON THE PLAN SHEETS.

- SIDEWALKS ARE DESIGNED AND INTENDED FOR PEDESTRIAN TRAFFIC ONLY. ALL SIDEWALKS AND CURB CUTS SHALL BE IN ACCORDANCE WITH F.D.O.T. INDEX 304 AND SHALL INCLUDE DETECTABLE WARNING SURFACES. VALLEY GUTTER ADJACENT TO SIDEWALK CROSSING CUTS SHALL DEVIATE FROM STANDARD DETAIL BY NOT EXCEEDING 12:1 SLOPES.
- THE CONTRACTOR SHALL NOTIFY THE ENGINEER, OWNER'S REPRESENTATIVE AND APPROPRIATE
 AGENCY A MINIMUM OF 72 HOURS PRIOR TO ALL INSPECTIONS REQUIRED.
- ANY PUBLIC LAND CORNER OR BENCHMARK WITHIN THE LIMITS OF CONSTRUCTION IS TO BE PROTECTED AND IF IN DANGER OF BEING DESTROYED MUST BE PROPERLY REFERENCED AND REPLACED AT THE COMPLETION OF CONSTRUCTION BY THE CONTRACTOR.
- THE CONTRACTOR SHALL OBTAIN ANY CLEARING, VEGETATION REMOVAL OR RIGHT-OF-WAY PERMITS
 REQUIRED FOR THIS PROJECT. ALL DEBRIS SHALL BE REMOVED FROM SITE AND PROPERLY
 DISPOSED OF
- 5. SUBGRADE AND LIMEROCK BASE COURSES (ROADS, DRIVEWAYS, AND SIDEWALK) TO BE COMPACTED TO 98% MINIMUM OF THE MAXIMUM DRY DENSITY AS SPECIFIED BY AASHTO T-180 TESTING. CONTRACTOR SHALL PROVIDE THE ENGINEER SATISFACTORY DENSITY TESTS FOR SUBGRADE AND LIMEROCK PRIOR TO PAYMENT OR FINAL ACCEPTANCE. EXCESS ROAD BASE AND COMPACTED SOIL SHALL BE REMOVED FROM ALL LANDSCAPE AREAS PRIOR TO FINAL GRADING. UTILITY TRENCHES SHALL BE COMPACTED TO 95% MINIMUM OF THE MAXIMUM DRY DENSITY AS SPECIFIED BY AASHTO-99. ALL GEOTECHNICAL TESTING SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. NO SEPARATE PAYMENT SHALL BE MADE FOR GEOTECHNICAL TESTING.
- THE CONTRACTOR IS REQUIRED TO ADJUST ALL EXISTING AND PROPOSED VALVE BOXES, MANHOLE RIMS, GRATES AND OTHER IMPROVEMENTS AS REQUIRED TO MATCH THE FINAL GRADE.
- CONTRACTOR SHALL NOTIFY THE ENGINEER 24 HOURS PRIOR TO PLACING SOD ON AREAS THAT REQUIRE CRITICAL MINIMUM OR MAXIMUM ELEVATIONS IN ORDER FOR ENGINEER TO VERIFY SUCH ELEVATIONS. THE OBLIGATION TO ACHIEVE MINIMUM ELEVATIONS REMAINS WITH THE CONTRACTOR
- 8. THE CONTRACTOR SHALL REMOVE ALL UNSUITABLE MATERIAL ENCOUNTERED FROM FILL AREAS PRIOR TO PLACEMENT OF FILL, AND SUCH MATERIAL SHALL BE STOCKPILED OR REMOVED AS DIRECTED BY OWNER. CONTRACTOR SHALL BE REQUIRED TO PROVIDE SUITABLE BACK FILL MATERIAL AS NEEDED FOR UTILITY BACK FILL ETC. AS IN ACCORDANCE WITH THE SPECIFICATIONS.
- THE CONTRACTOR SHALL RESTORE ALL PAVING DISTURBED DURING CONSTRUCTION TO MATCH ORIGINAL CONDITION. NO SEPARATE PAYMENT WILL BE MADE FOR THESE ITEMS UNLESS SPECIFICALLY INCLUDED IN THE BID TABULATION OR OUTLINED IN THE SPECIFICATIONS.
- 10. EROSION AND SEDIMENT CONTROL FACILITIES SHALL BE INSTALLED PRIOR TO PERFORMING ANY EXCAVATION IN ANY AREA AND SHALL BE MAINTAINED DURING WORK AND REMOVED WHEN WORK IS COMPLETED. SEE EROSION CONTROL DETAILS FOR ADDITIONAL INFORMATION. IF APPLICABLE.
- LIMITS OF CONSTRUCTION SHALL BE CONFINED TO THE EXISTING RIGHTS-OF-WAYS AND EASEMENTS SHOWN ON THE PLANS.
- 12. CONTRACTOR SHALL RECONSTRUCT ALL DRAINAGE DITCHES AND SWALES DISTURBED BY CONSTRUCTION ACTIVITIES TO THEIR ORIGINAL GRADE AND LOCATION.
- 13. THE CONTRACTOR SHALL AT ALL TIMES PROVIDE AND MAINTAIN AMPLE MEANS AND EQUIPMENT WITH WHICH TO REMOVE AND PROPERLY DISPOSE OF ANY WATER ENTERING THE EXCAVATION OR OTHER PARTS OF THE WORK AND KEEP ALL EXCAVATIONS DRY UNTIL SUCH TIME AS PIPE LAYING AND GRADING IS COMPLETED AND STRUCTURES TO BE BUILT THEREIN ARE COMPLETED. NO WATER SHALL BE ALLOWED TO RISE AROUND THE PIPE IN OPEN TRENCHES NOR SHALL IT BE ALLOWED TO RISE OVER MASONRY UNTIL THE CONCRETE OR MORTAR HAS SET. ALL WATER PUMPED OR DRAINED FROM THE SITE SHALL BE DISPOSED OF IN SUCH A MANNER AS TO PREVENT SILTATION AND EROSION TO ADJACENT PROPERTY OR OTHER CONSTRUCTION. IF REQUIRED THE CONTRACTOR SHALL BE REQUIRED TO OBTAIN ANY LOCAL, STATE OR FEDERAL PERMITS REQUIRED FOR DEWATERING. NO OFFSITE DISCHARGE IS PERMITTED UNLESS SPECIFICALLY ALLOWED IN DEWATERING PERMIT.
- CONTRACTOR SHALL PROTECT OR REMOVE AND REINSTALL ALL SIGNS AND MAIL BOXES WITHIN THE RIGHT-OF-WAY OR EASEMENT LIMITS.
- 15. CONTRACTOR SHALL PROVIDE 48 HOURS MINIMUM ADVANCE NOTICE OF ALL UTILITY SHUT DOWNS AND TIE-INS TO THE ENGINEER, THE PUBLIC INVOLVEMENT CONSULTANT (IF APPLICABLE) AND THE UTILITY COMPANY.
- ROADWAY LANE CLOSURES, DRIVEWAY CLOSURES, POTABLE WATERMAIN AND FORCEMAIN SHUT DOWNS MAY BE REQUIRED TO OCCUR AT NIGHT OR EARLY MORNING HOURS. NO ADDITIONAL COMPENSATION SHALL BE PROVIDED FOR REQUIRED NIGHT WORK.
- 17. IN THE EVENT OF UNSCHEDULED WATERMAIN SHUT DOWNS (BREAKS) THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER, THE PUBLIC INVOLVEMENT CONSULTANT (IF APPLICABLE) AND THE UTILITY COMPANY TO DETERMINE THE AFFECTED AREA FOR "BOIL WATER NOTICES". THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL THE NECESSARY REPAIRS AND REQUIRED BACTERIOLOGICAL TESTS NECESSARY TO RETURN THE SYSTEM TO ITS NORMAL OPERATING CONDITION. NO ADDITIONAL COMPENSATION WILL BE MADE FOR ACCIDENTAL BREAKS, REPAIRS AND TESTING.
- 18. CONTRACTOR SHALL MAINTAIN REASONABLE ACCESS TO EXISTING BUSINESSES AND RESIDENCES AT ALL TIMES. IN THE EVENT OF A DRIVEWAY CLOSURE, THE CONTRACTOR SHALL PROVIDE A "BUSINESS ACCESS" SIGN AT THE AVAILABLE ACCESS POINT UNTIL SUCH TIME THAT ALL ORIGINAL ACCESS POINTS ARE REOPENED.
- ALL DRIVEWAYS WITHIN THE COUNTY RIGHT OF WAY SHALL BE CLASS 1 (2500 PSI AT 28 DAYS) AND 6" THICK.
- ALL SIDEWALKS PROPOSED AS PART OF THIS PROJECT SHALL BE CLASS 1 (2500 PSI AT 28 DAYS),
 5' WIDE, AND 6" THICK.

Barraco and Associates, Inc

CIVIL ENGINEERING - LAND SURVEYING

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2271 McGREGOR BLVD., SUITE 100 POST OFFICE DRAWER 2800 FORT MYERS, FLORIDA 33902-2800 PHONE (239) 461-3170 FAX (239) 461-3169

FLORIDA CERTIFICATES OF AUTHORIZATION ENGINEERING 7995 - SURVEYING LB-6940

PREPARED FOR



1500 MONROE STREET FORT MYERS, FLORIDA 33901 PHONE (239)533-8580 FAX (239)485-8520

PROJECT DESCRIPTION

HANCOCK BRIDGE
PARKWAY
SIDEWALK AND
DRAINAGE
IMPROVEMENTS

MOODY ROAD TO U.S. 41

ENGINEER OF RECORD

CARL A. BARRACO, P.E., FOR THE FIRM FLORIDA P.E. NO. 38536 - CARLB@BARRACO.NE

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FILE NAME 23404A09.DWG

LOCATION J:23404IDWGIDO\

PLOT DATE FRI. 6-28-2019 - 2:09 PM

PLOT BY WES KAYNE

CROSS REFERENCED DRAWINGS

PLAN REVISIONS

PLAN STATUS

100% SUBMITTAL PLANS 2019-06-28

> PROJECT NOTES

PROJECT / FILE NO. SHEET NUMBER

23404

4 C3.1

PAY ITEM			
NUMBER	PAY ITEM DESCRIPTION	UNITS	QUANTITY
0101-1	MOBILIZATION	LS	1.000
0101-2	CONSTRUCTION LAYOUT	LS	1.000
0102-1	MAINTENANCE OF TRAFFIC	DA	180.000
104-1	EROSION CONTROL AND MAINTENANCE	LS AG	1.000
0110-1-1	CLEARING AND GRUBBING	AC	1.100
0110-4-5	REMOVAL OF EXISTING CONCRETE, CURB ELEMENTS	LF.	118.000
0110-15-4 E110-3-3	REMOVAL OF EXISTING STRUCTURE (INLET)	EA	1.000 5.000
0120-1	REGULAR EXCAVATION	EA CY	48.000
0120-1	GROUT PIPE INSTALLATION	LF	
0173-76	STABILIZED SUBBASE	SY	<i>145.000</i> <i>366.000</i>
331-1	TYPE S-I ASPHALT 2 -1/2" (2 LIFTS)	SY	323.000
331-2	FULL DEPTH OPEN CUT AND ROADWAY REPAIR	SY	144.000
331-3	TYPE S-III ASPHALT OVERLAY (AVG. 1.5" LIFT)	SY	4,181.000
331-4	FULL DEPTH PAVEMENT REMOVAL	SY	147.000
0285-70-9	OPTIONAL BASE GROUP "09"	SY	339.000
0327-70-6	MILLING (AVG. 1.5")	SY	3,858.000
0400-0-11	CONCRETE CLASS NS, GRAVITY WALL	SY	162.000
0425-021	TYPE "6" INLET WITH TYPE "J" BOTTOM	EA	1.000
0425-1471	MODIFIED TYPE "7" INLET	EA	6.000
0425-1513	INLETS, DT BOT, TYPE C, <10'	EA	7.000
0425-1521	MODIFIED TYPE "C" INLET	EA	4.000
0425-1541	INLETS, DT BOT, TYPE D, <10'	EA	1.000
0425-15-51	REMOVE AND REPLACE CURB INLET TOP	EA	4.000
0425-3-91	JUNCTION BOX WITH TYPE "J" BOTTOM (4'X5')	EA	1.000
0425-7	ADA MANHOLE COVER	EA	3.000
E430-17-99	REMOVE 15" RCP	LF	190.000
0515-1-2	PIPE HANDRAIL - GUADRAIL, ALUMINUM	LF	587.000
0520-1-1	CONCRETE CURB AND GUTTER, TYPE F	LF	1,294.000
0520-1-7	CONCRETE CURB AND GUTTER, TYPE E	LF	78.000
0520-2-4	CONCRETE CURB AND GUTTER, TYPE D	LF	55.000
0520-3	3' VALLEY GUTTER CURB	LF	22.000
0522-2	6" CONCRETE SIDEWALK	SY	1,572.000
0524-1-2	4" CONCRETE DITCH PAVEMENT	SY	35.000
0527-2	DETECTABLE WARNINGS	SF	56.000
0530-3-4	RIP RAP - RUBBLE, F&I, DITCH LINING	TN	1.400
0531-1-2	GUARDRAIL - BRIDGE APPROACH	LF	53.000
E575-1 0653-1-40	SODDING (BAHIA) (INCLUDES WATER, FERTILIZER & MOWING) PEDESTRIAN SIGNAL RELOCATION	SY EA	3,051.000
0690-34-2	REMOVE CONCRETE POWER POLE AND OVERHEAD LINE	EA	1.000
700-1	SIGNING AND PAVEMENT MARKINGS (THERMOPLASTIC)	LS	1.000
0700-1-50	SINGLE POST SIGN, RELOCATE	EA	6.000
430173115	15" RCP	LF	1,291.000
430174230	PIPE CULVERT, OPTIONAL MATERIAL, OTHER-ELIP/ARCH, 30" SD	LF	4.000
430175218	PIPE CULVERT, OPTIONAL MATERIAL, OTHER-ELIP/ARCH, 18" S/CD	LF.	18.000
0110-3	REMOVAL OF EXISTING STRUCTURES/BRIDGES	SF	958.000
0400-4-4	CONCRETE CLASS IV, SUPERSTRUCTURE	CY	66.000
0415-1-4	REINFORCING STEEL - BRIDGE SUPERSTRUCTURE	LB	8,590.000
0515-4-2	BULLET RAIL, DOUBLE RAIL	LF	201.000
0521-1-11 0521-1-14	MEDIAN CONCRETE BARRIER, 38" HEIGHT MEDIAN CONCRETE BARRIER, VARIABLE SECTION WIDTH	LF LF	63.000
0521 5 4	FOR PIER SHIELDING	LF	201 000
0521-5-4	CONCRETE TRAFFIC RAILING - BRIDGE, 32" VERTICAL FACE	LF LF	201.000
0521-5-12 0544-75-1	CONCRETE TRAFFIC RAILING - BRIDGE, 36" MEDIAN SINGLE SLOPE CRASH CUSHION		121.000
	GEOTEXTILE FABRIC (CRACK RETARDENT AT APPROACH SLABS &	EA	2.000
0918-514-1	ROADWAY JOINTS) UTILITY PIPE - POLY VINYL CHLORIDE, FURNISH & INSTALL,	LF	110.000
			902.000

II. FORCEM	AIN AND ACCESSORIES		
PAY ITEM NUMBER	PAY ITEM DESCRIPTION	UNITS	QUANTITY
0101-1	MOBILIZATION	LS	1.000
0101-2	CONSTRUCTION LAYOUT	LS	1.000
0102-1	MAINTENANCE OF TRAFFIC	DA	30.000
104-1	EROSION CONTROL AND MAINTENANCE	LS	1.000
1001	10" DR-18 PVC FORCEMAIN	LF	37.000
1002	10" DR-14 PVC FORCEMAIN	LF	11.000
1003	AIR RELEASE VALVE	EA	3.000
1004	12" PLUG VALVE	EΑ	2.000
1005	CONNECT TO EXISTING FORCEMAIN	EA	6.000
1050-42212	UTILITY PIPE - HDPE, F&I, WATER/SEW, 12"	LF	310.000
1050-61116	UTILITY PIPE - HOT DIP GALV. STEEL, F&I, CASING, 16"	LF	150.000
999-1	HDPE EXPANSION JOINT - FLEX TEND	EΑ	2.000
999-2	16" ADJUSTABLE PIPE ROLLER STAND	EΑ	16.000
999-3	HEAVY WELDED STAINLESS STEEL BRACKET (BRACKET NO. 3)	EA	16.000
999-4	PIPE SPACERS (RANGER II 0.65)	EA	138.000

PAY ITEM TABLE LEGEND

XXX-X

PAY ITEMS AND QUANTITIES PROVIDED BY HIGHSPANS ENGINEERING, INC.

UTILITIES PROVIDING SERVICE:

WATER AND SEWER

LEE COUNTY UTILITIES 1500 MONROE ST. FORT MYERS, FL 33901 PHONE (239) 533-8160

TELEPHONE

CENTURYLINK TELEPHONE CO. 5100 DANIELS PARKWAY #300 FORT MYERS, FL 33912 PHONE (239) 590-0440

ELECTRIC

L.C.E.C. 4980 BAYLINE DRIVE NORTH FORT MYERS, FL 33917 PHONE (239) 995-2121

FIRE CONTROL DISTRICT

NORTH FORT MYERS FIRE CONTROL DISTRICT 2900 TRAIL DAIRY CIRCLE NORTH FORT MYERS, FL 33917 PHONE (239) 997-8654

TECO PEOPLE'S GAS 5901 ENTERPRISE PARKWAY FORT MYERS, FL 33905 PHONE (239) 832-6747

SOLID WASTE

WASTE PRO USA 13110 RIEKENBACKER PKWY. FORT MYERS, FL 33913 PHONE (239) 337-0800 IRRIGATION WATER

IRRIGATION SHALL BE PROVIDED BY L.C.D.O.T. 1500 MONROE ST. FORT MYERS, FL 33901

PHONE (239) 533-8109 CABLE TELEVISION:

COMCAST 12641 CORPORATE LAKES DRIVE FORT MYERS, FL 33913 PHONE (239) 908-6571

UTILITY LOCATING SERVICE

SUNSHINE STATE ONE CALL CENTER PHONE 811 (MINIMUM 48 HOURS NOTICE REQUIRED)

FIBER NETS FP&L

15834 WINKLER ROAD FORT MYERS, FL 33908 PHONE (866)-553-4237

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www.barraco.net 2271 McGREGOR BLVD., SUITE 100 POST OFFICE DRAWER 2800 FORT MYERS, FLORIDA 33902-2800 PHONE (239) 461-3170 FAX (239) 461-3169

FLORIDA CERTIFICATES OF AUTHORIZATION ENGINEERING 7995 - SURVEYING LB-6940



1500 MONROE STREET FORT MYERS, FLORIDA 33901 PHONE (239)533-8580 FAX (239)485-8520

PROJECT DESCRIPTION

HANCOCK BRIDGE **PARKWAY** SIDEWALK AND DRAINAGE **IMPROVEMENTS**

> MOODY ROAD TO U.S. 41

ENGINEER OF RECORD CARL A. BARRACO, P.E., FOR THE FIRM FLORIDA P.E. NO. 38536 - CARLB@BARRACO.NET

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DCATION J:\23404\DWG\DO\ OT DATE FRI 6-28-2019 - 2:09 PM LOT BY WES KAYNE

CROSS REFERENCED DRAWINGS

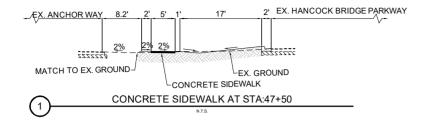
PLAN REVISIONS

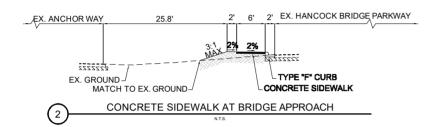
100% SUBMITTAL PLANS 2019-06-28

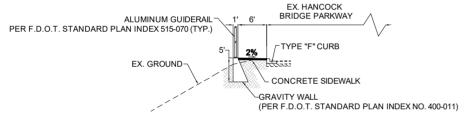
SUMMARY OF PAY ITEMS

PROJECT / FILE NO. SHEET NUMBER

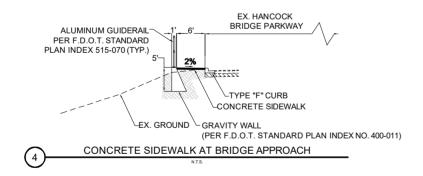
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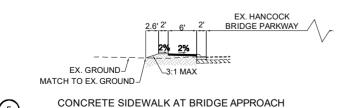


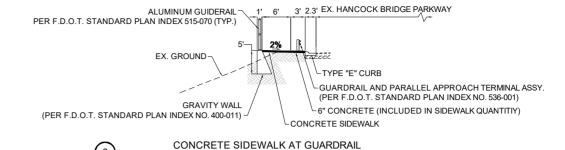


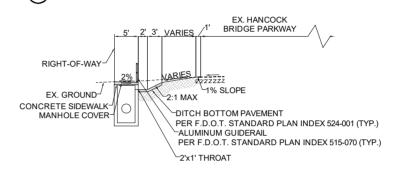


CONCRETE SIDEWALK AT BRIDGE APPROACH

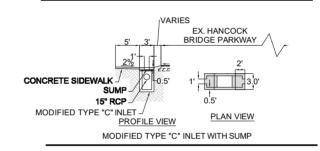








TYPE J-7 (4'x4') INLET WITH DITCH PAVEMENT



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FLORIDA CERTIFICATES OF AUTHORIZATION ENGINEERING 7995 - SURVEYING LB-6940



1500 MONROE STREET FORT MYERS, FLORIDA 33901 PHONE (239)533-8580 FAX (239)485-8520

PROJECT DESCRIPTION

HANCOCK BRIDGE **PARKWAY** SIDEWALK AND DRAINAGE **IMPROVEMENTS**

MOODY ROAD TO U.S. 41

ENGINEER OF RECORD

CARL A. BARRACO, P.E., FOR THE FIRM FLORIDA P.E. NO. 38536 - CARLB@BARRACO.

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FILE NAME	23404A18.DWG
LOCATION	J:\23404\DWG\DO\
PLOT DATE	FRI. 6-28-2019 - 2:10 PM
PLOT BY	WESKAYNE

CROSS REFERENCED DRAWINGS

PLAN REVISIONS

PLAN STATUS

100% SUBMITTAL PLANS 2019-06-28

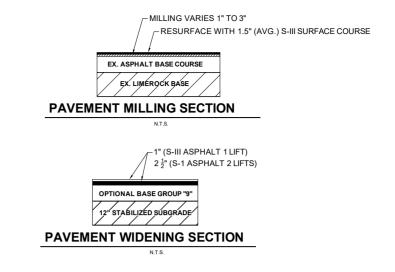
SECTIONS AND **DETAILS**

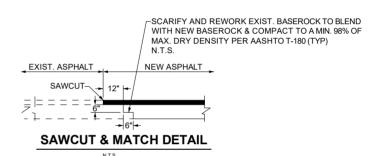
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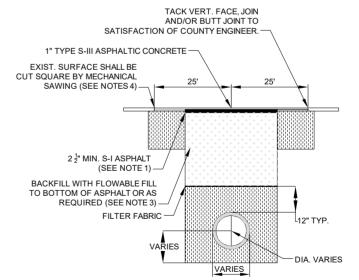
23404

C4.0

SHEET NUMBER







OVERLAY WITH 1" S-III ASPHALT OR MATCH EXISTING, 25 FEET IN EACH DIRECTION WITH 2' W x $\frac{3}{4}$ " DEEP MILLED BUTT JOINT AT EACH END.

- THE LIMITS OF ASPHALT (OVERLAY) REPLACEMENT SHALL BE DETERMINED BY LEE COUNTY.
 CONTROLLED LOW STRENGTH MATERIALS (CLSM)
- 3. USING A $\frac{3}{4}$ " THICK x 2' WIDE BUTT JOINT AT EACH END.
- 4. COMPACTION 6" LIFTS WITH DENSITIES EVERY 12"

TRENCH RESTORATION DETAIL FOR LEE COUNTY ROADS

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PROJECT DESCRIPTION

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MOODY ROAD TO U.S. 41

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CROSS REFERENCED DRAWINGS

PLAN REVISIONS

100% SUBMITTAL PLANS 2019-06-28

SECTIONS

PLAN STATUS

AND **DETAILS**

PROJECT / FILE NO. SHEET NUMBER

23404 C4.1

2' DETECTABLE WARNING SURFACE, PER INDEX 522-001-SEE PLAN SHEETS FOR LOCATIONS CONC. SW (6" TK) CONC. SW (6" TK) NOTE: CONTRACTOR SHALL CONSTRUCT A TEN (10) FT SIDEWALK CROSS SLOPE TRANSITION AT DRIVEWAYS AND SIDE STREETS TO MATCH THE EXISTING PAVEMENT EDGE. SIDEWALK CONNECTION TO EXISTING DRIVEWAY/SIDE STREET/PAVED SHOULDER TYPICAL DETAIL PLAN VIEW NTS

EXIST. DRIVEWAY/SIDE STREET/PAVED SHLDR.

EDGE OF TRAVEL

PAVED SHLDR.

5'-6' CONC. SW

- DETECTABLE WARNING SURFACE

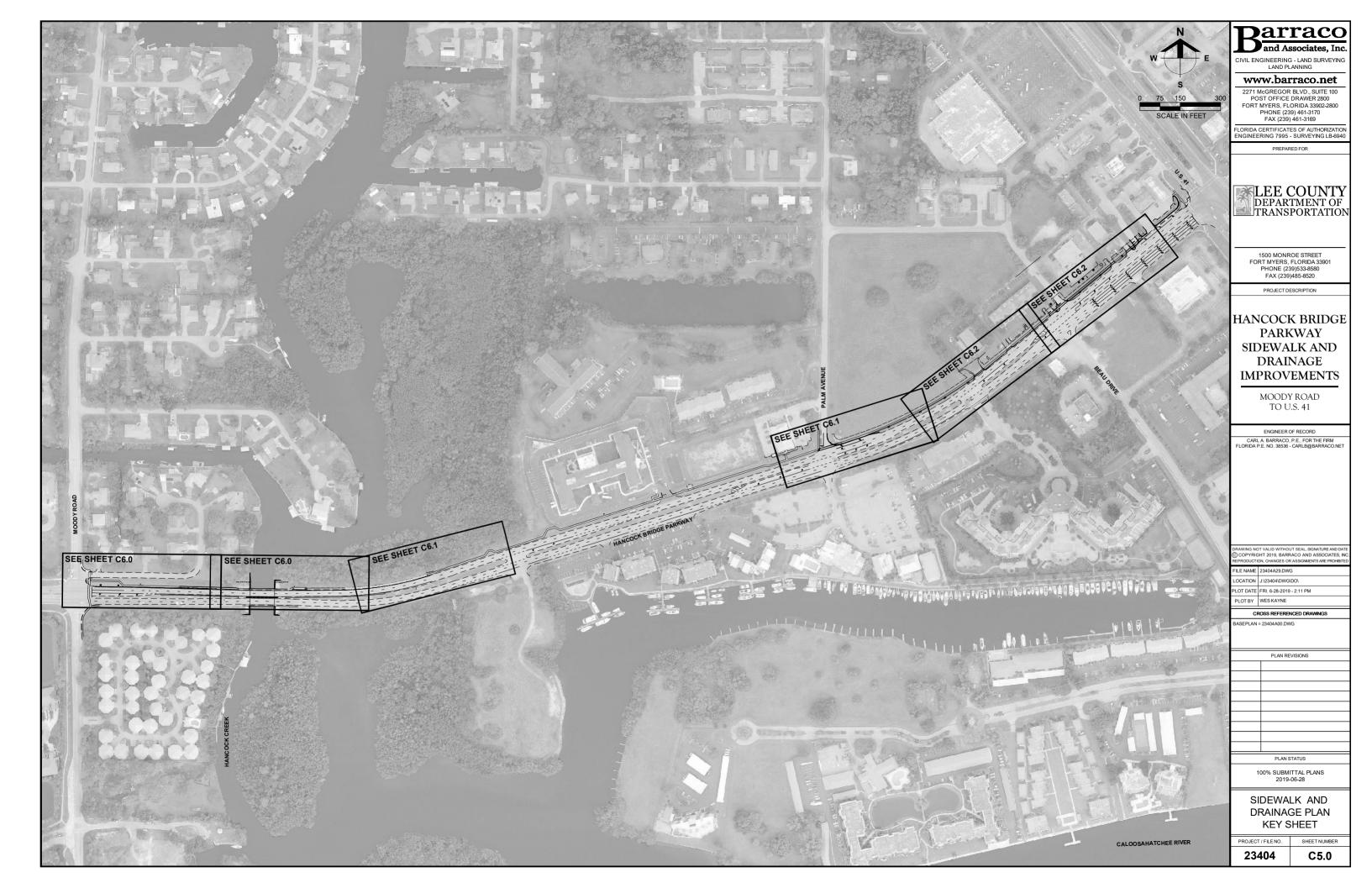
CONC. SW (6" TK) -

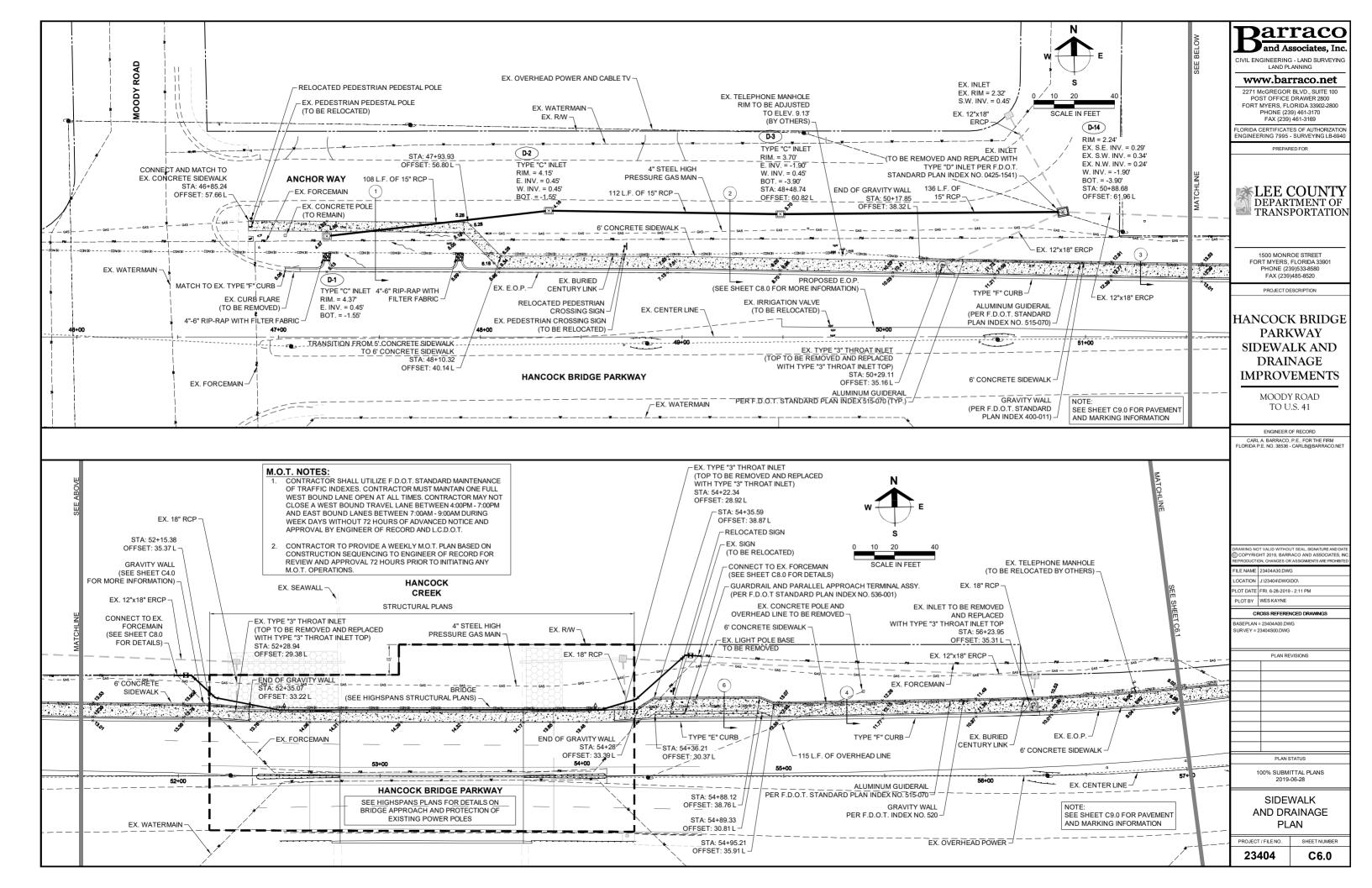
SECTION A-A

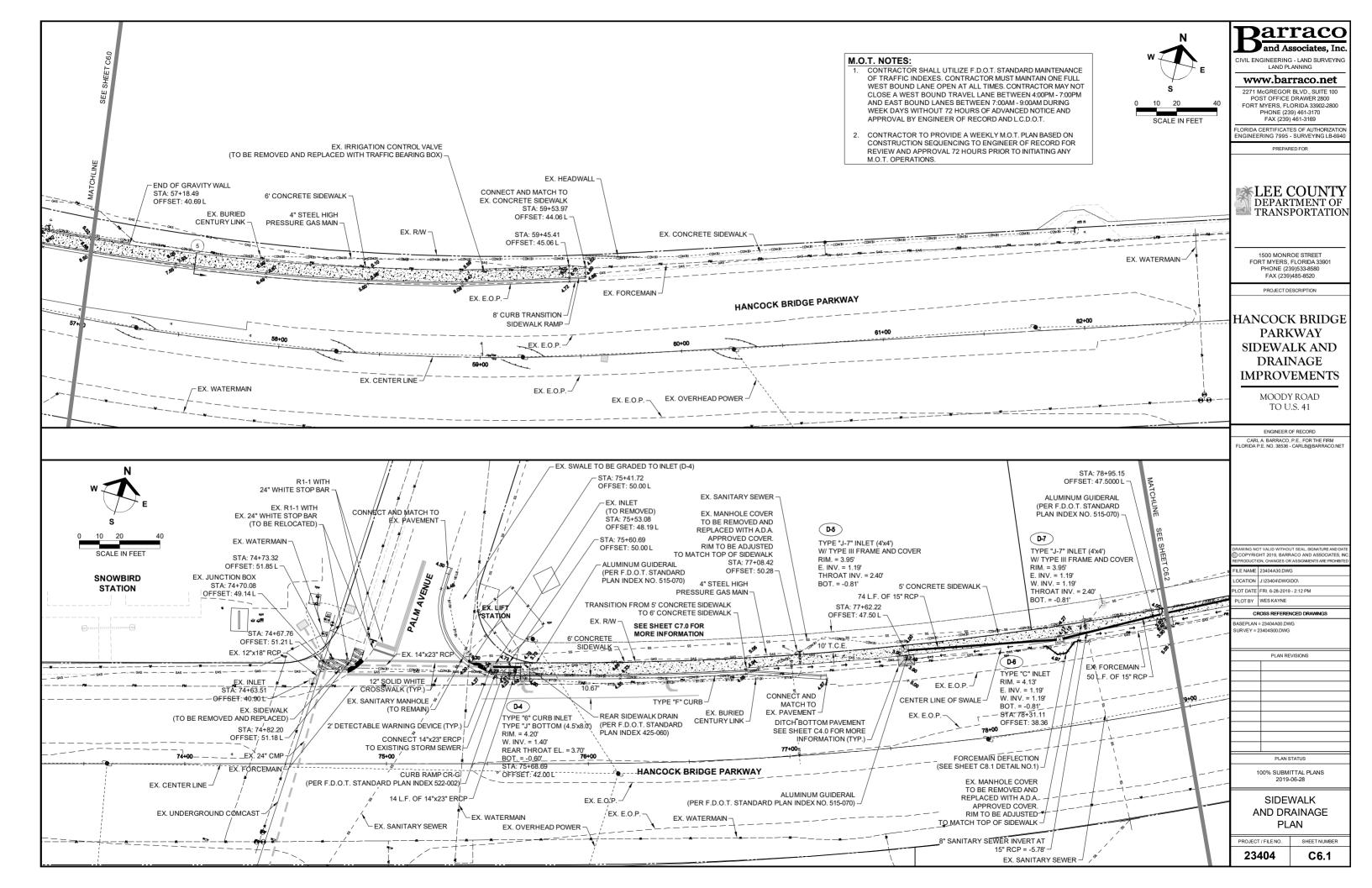
NTS

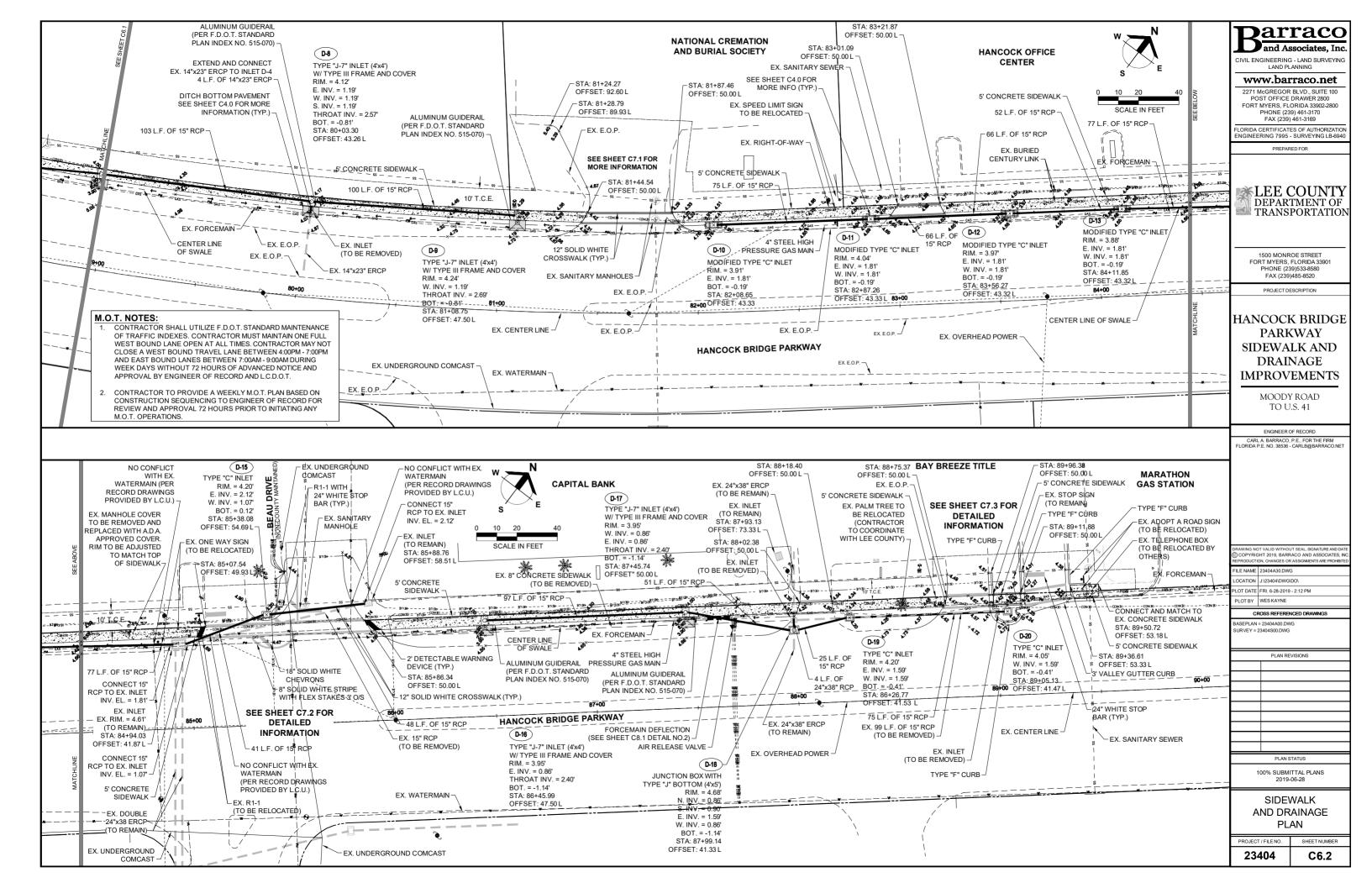
MATCH EXIST. SURFACE ELEVATION -

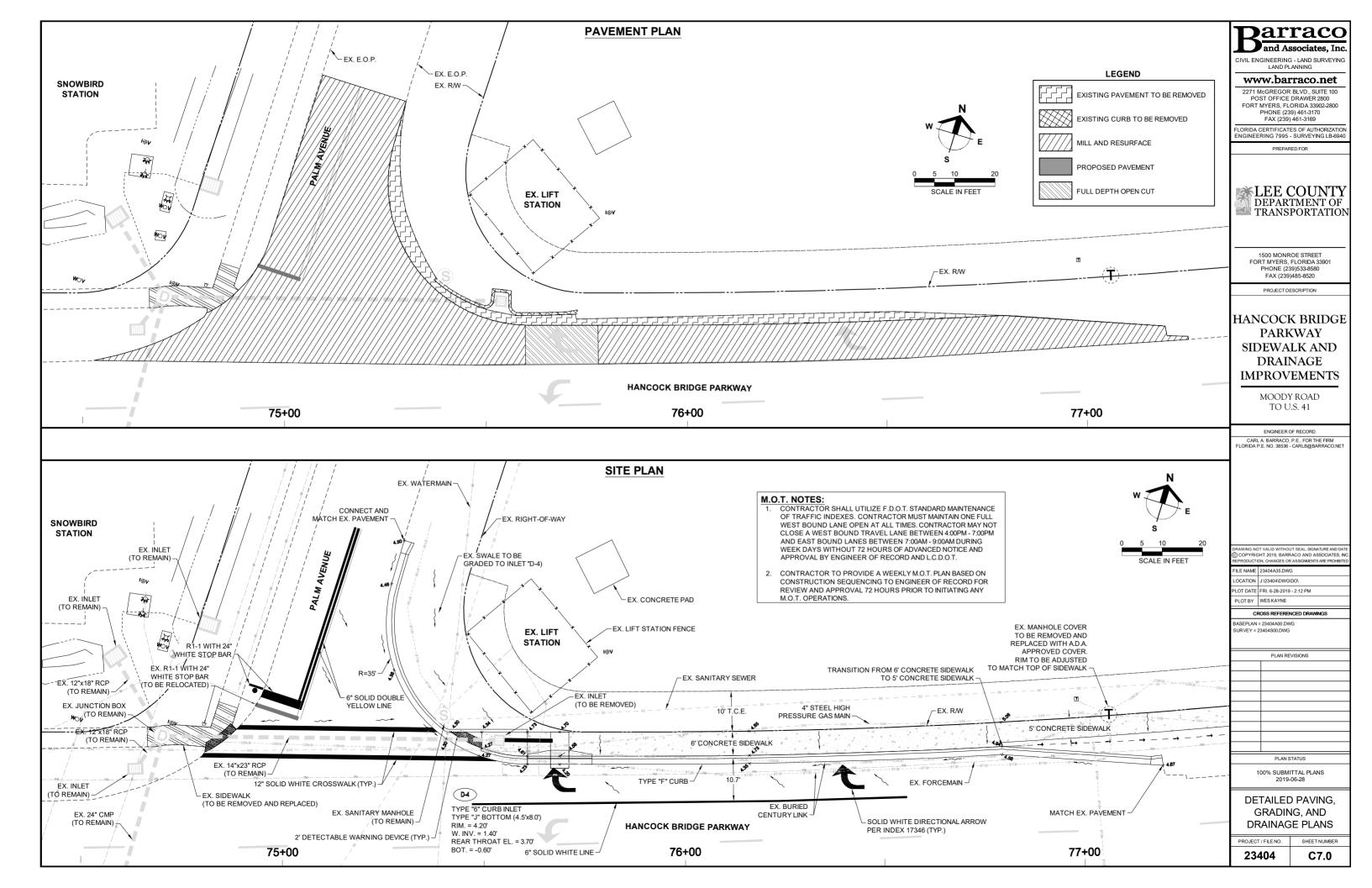
EXIST. DRIVEWAY/SIDE STREET/PAVED SHLDR.

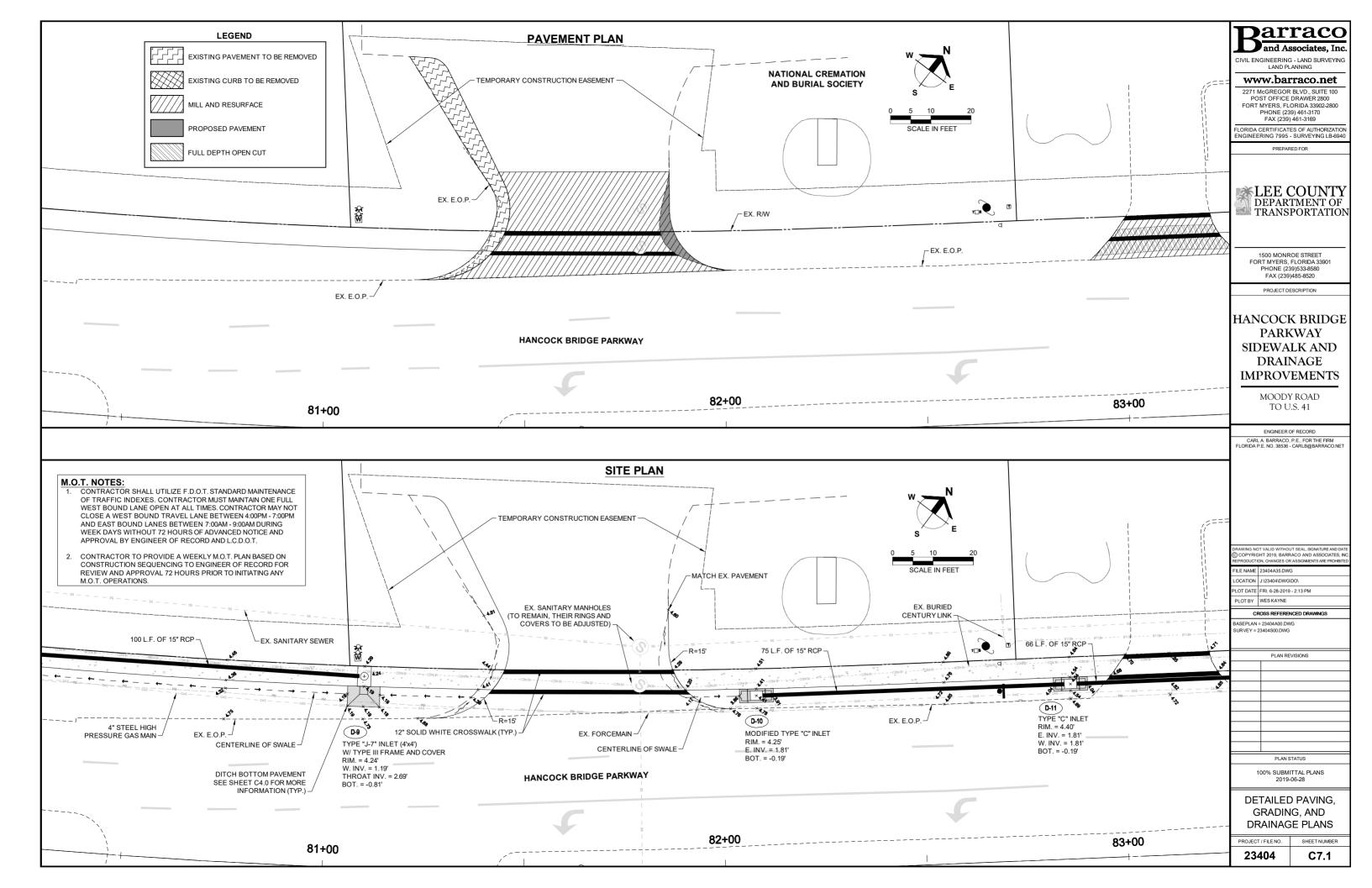


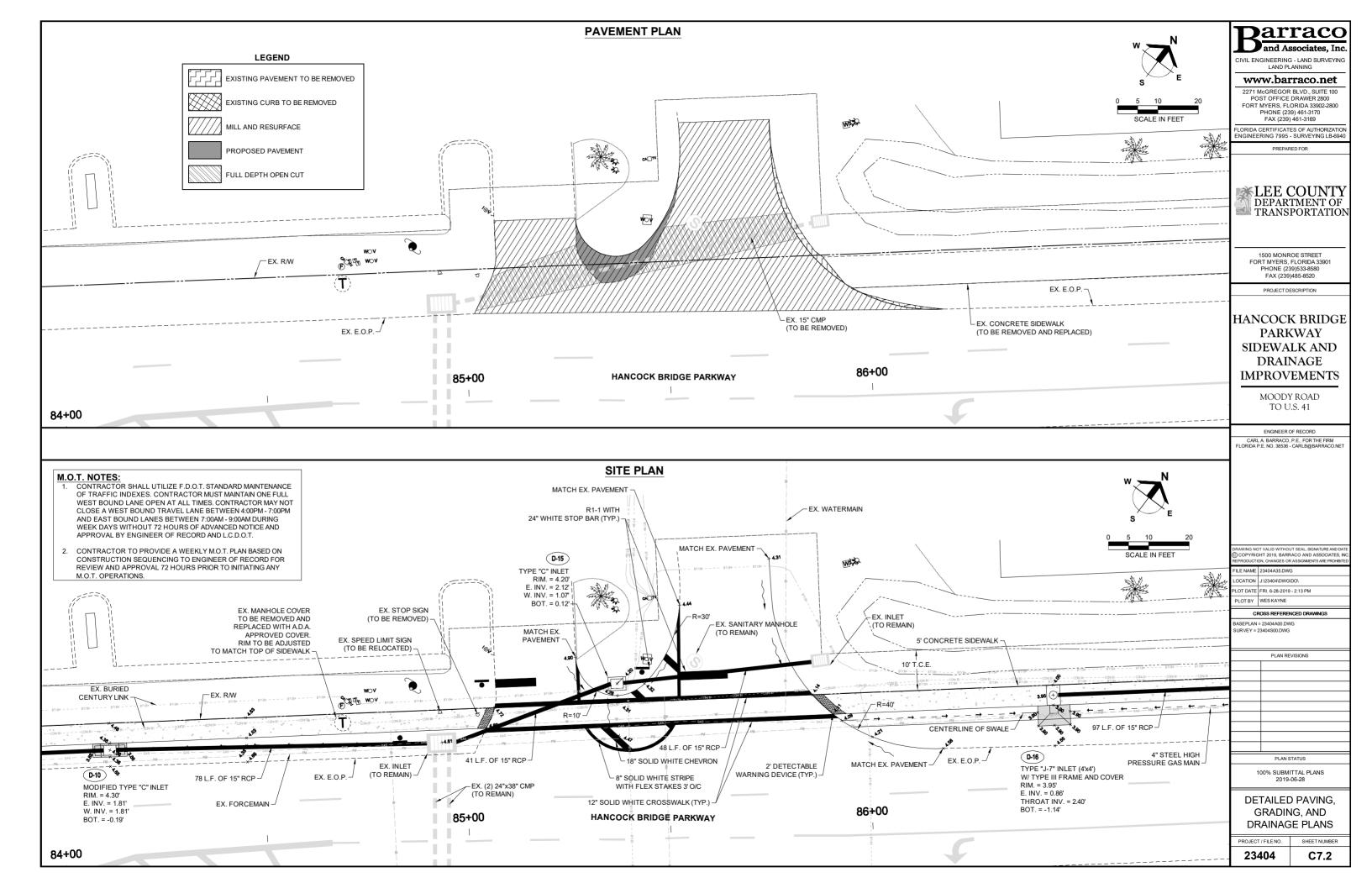


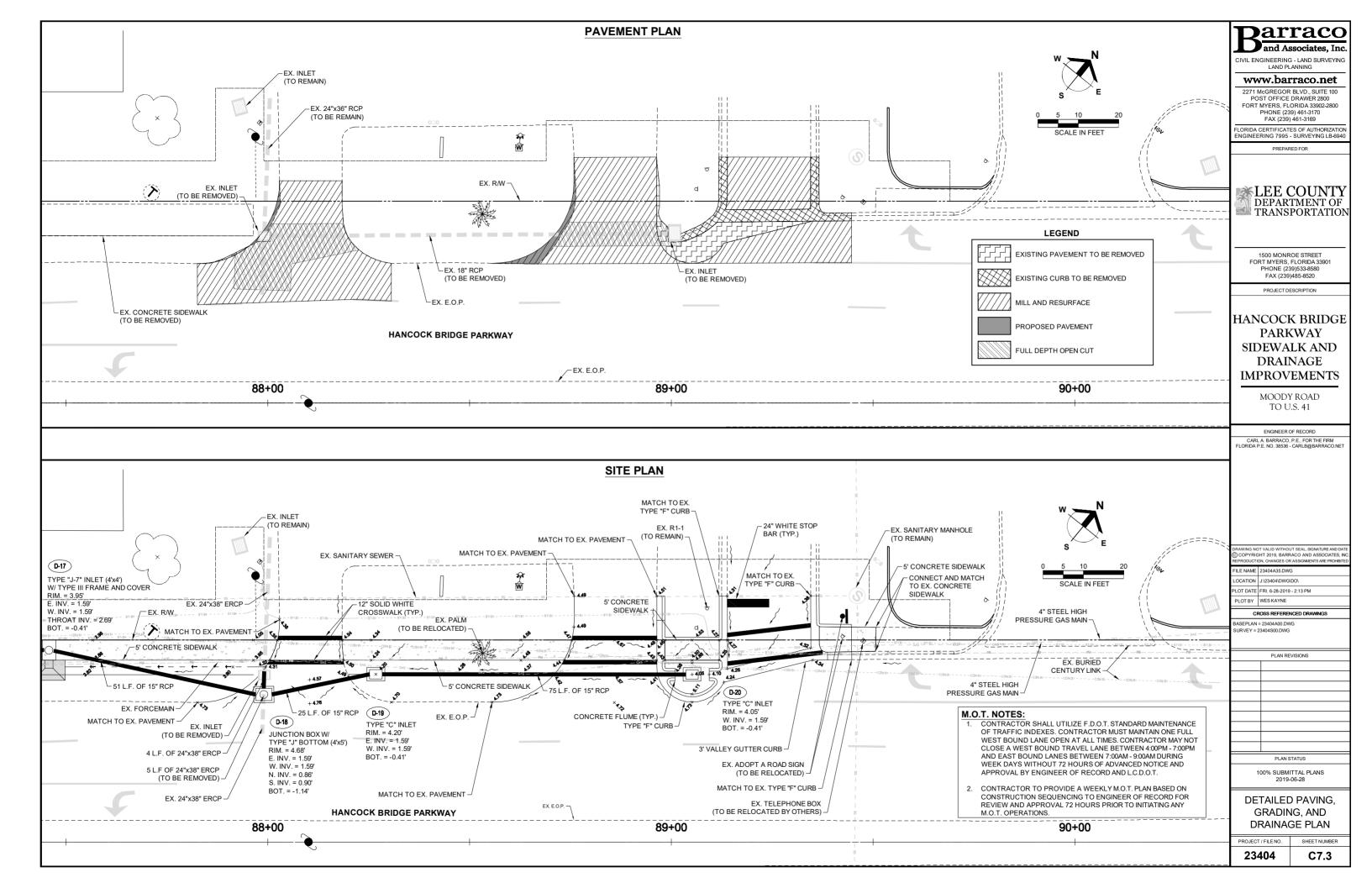


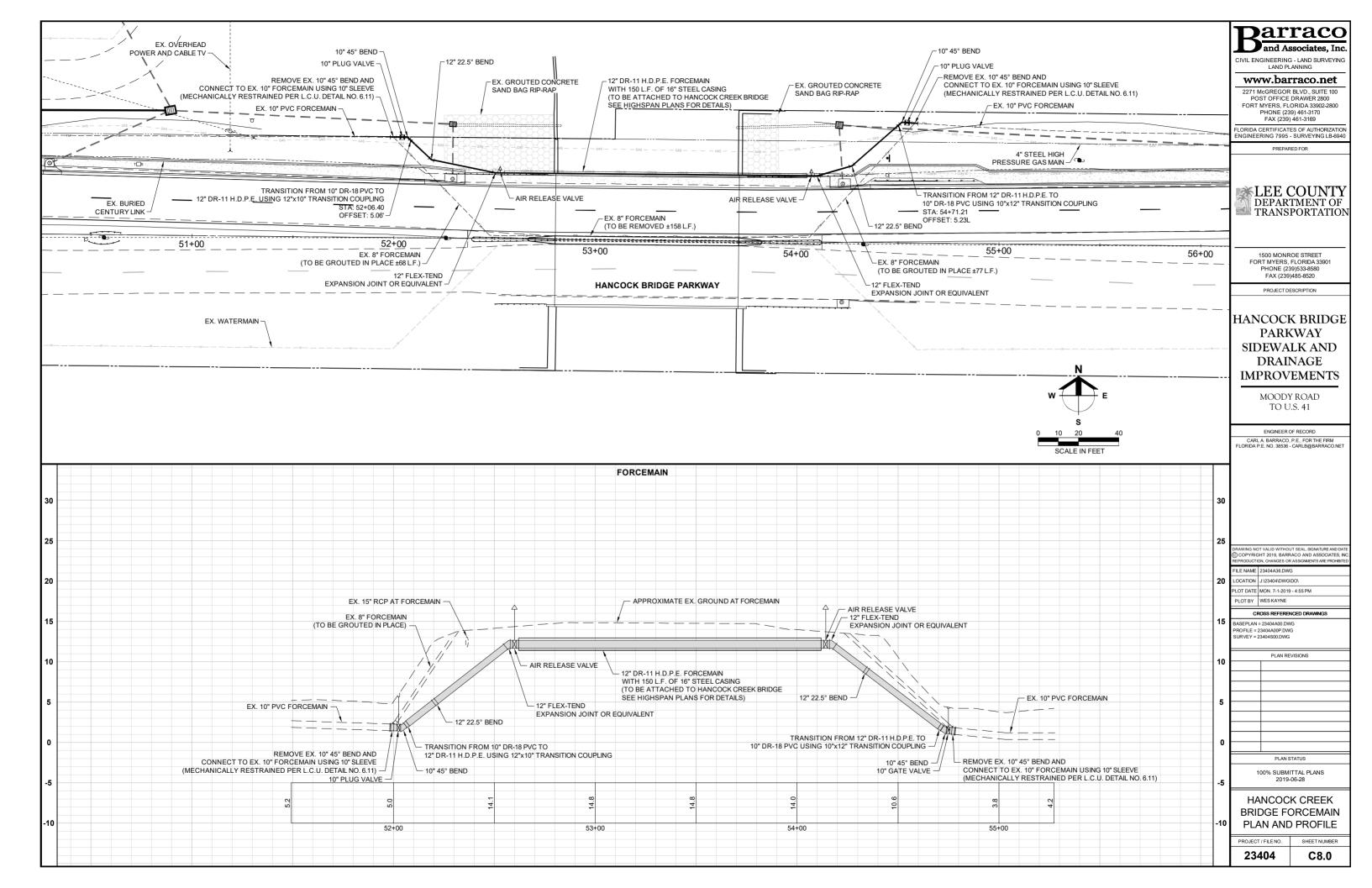


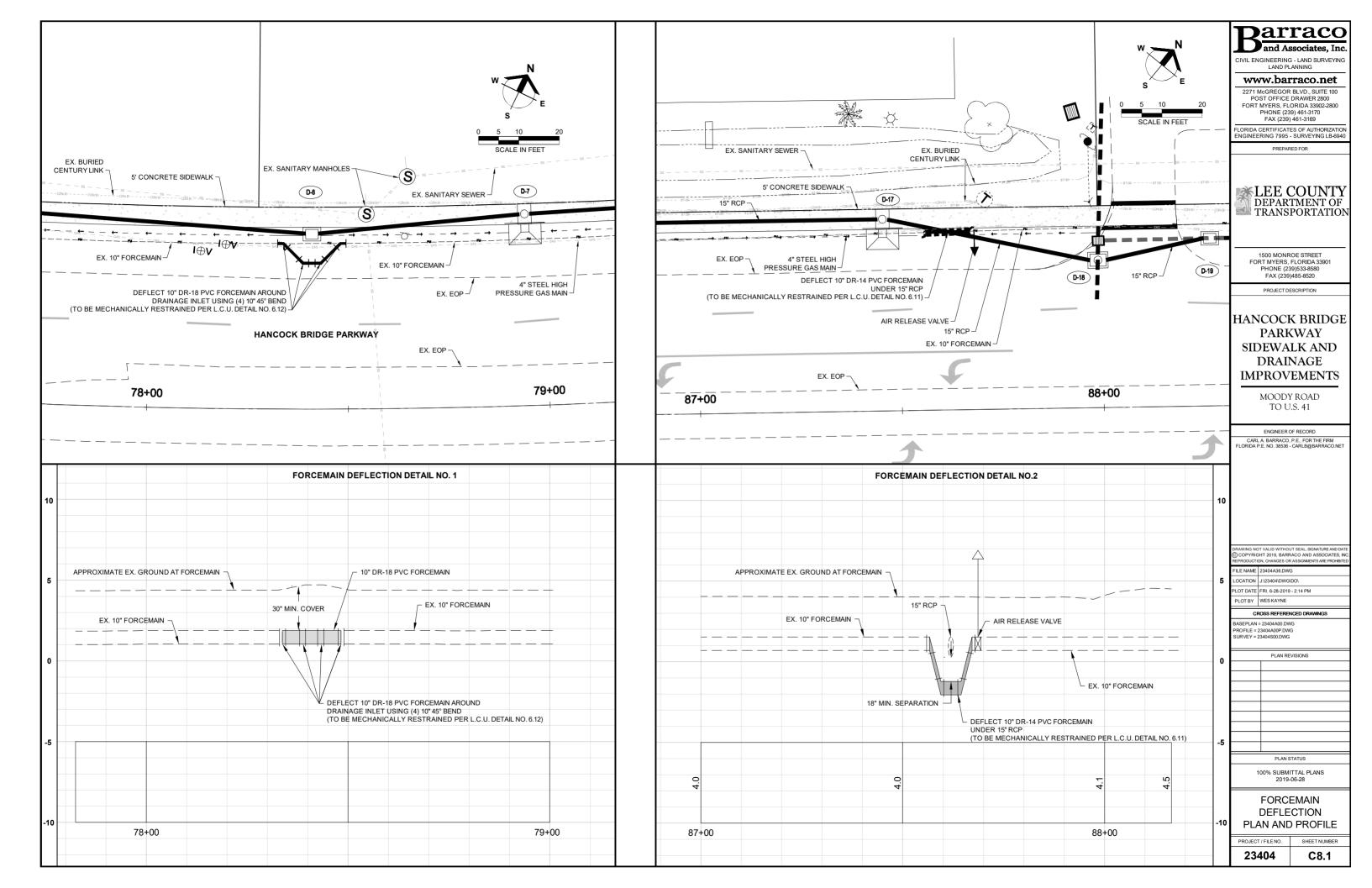


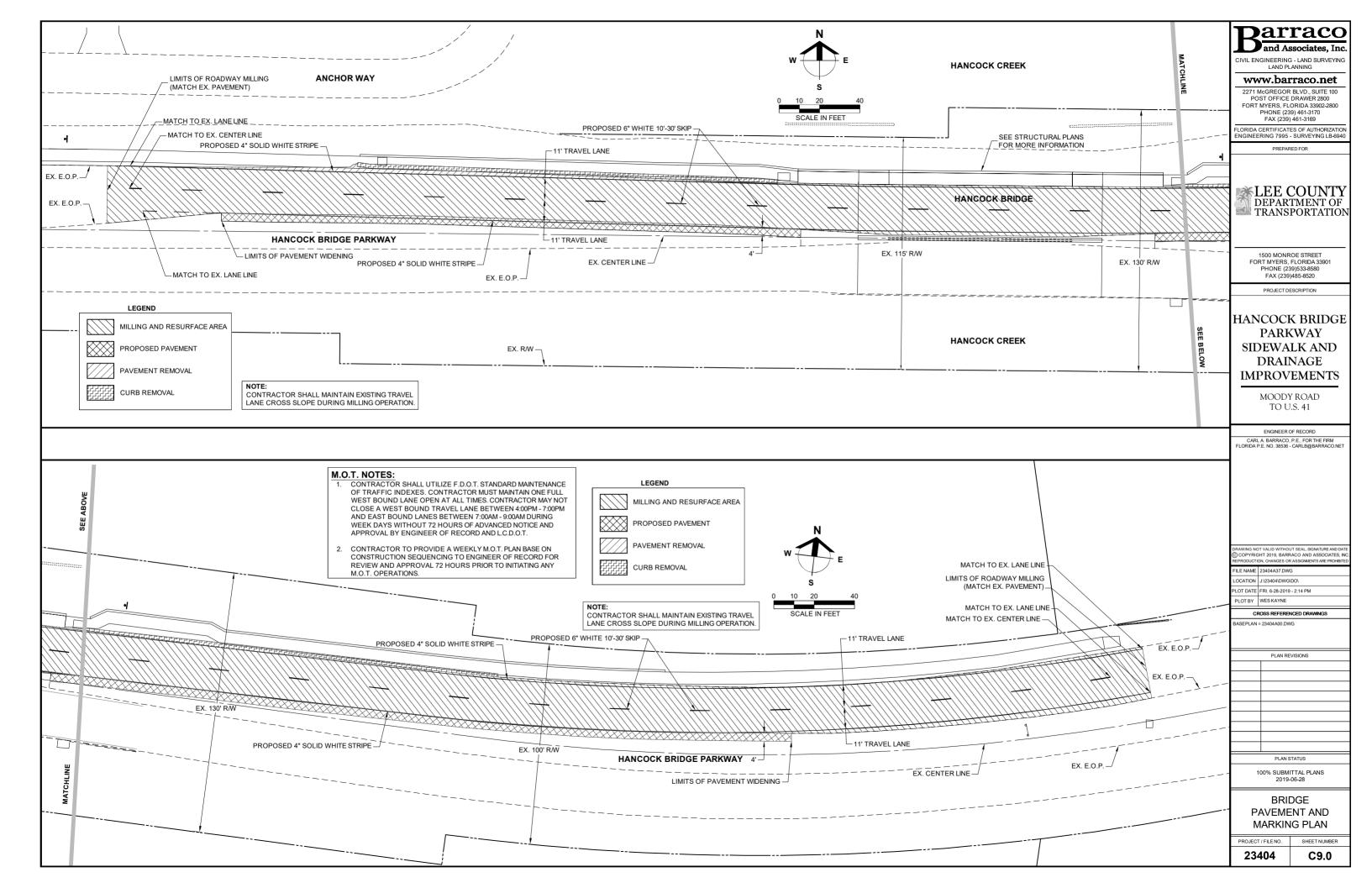


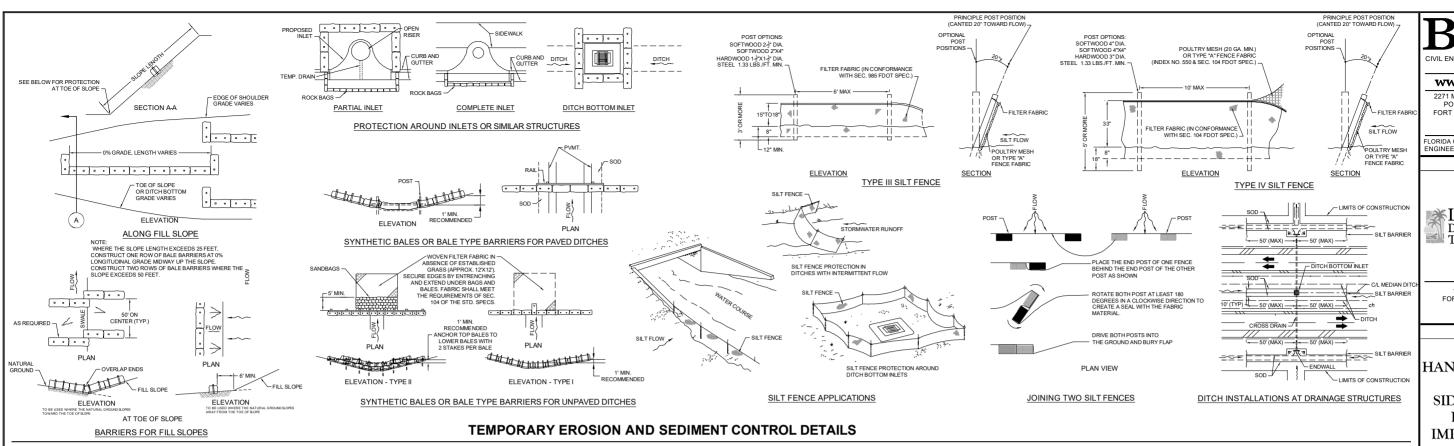




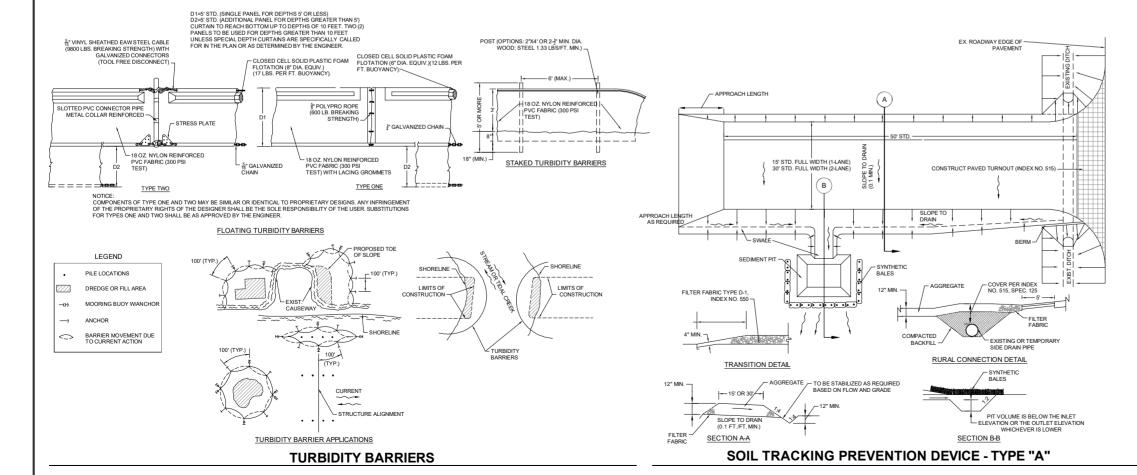








NOTE: NOT ALL NOTES, DETAILS, SYMBOLS OR OTHER STANDARDS SHOWN ON THIS SHEET MAY BE APPLICABLE TO THIS PROJECT



EROSION CONTROL NOTES:

- CONSTRUCTION ALL DEVICES SHALL REMAIN IN PLACE LINTIL PERMANENT EROSION CONTROL IS ESTABLISHED.
- 2. THE CONTRACTOR SHALL SUPPLEMENT THIS PLAN AS REQUIRED TO CONTROL AND REDUCE SOIL EROSION BASED ON THE CONTRACTORS MEANS, METHODS AND TECHNIQUE OF CONSTRUCTION. IT IS RECOMMENDED THAT THE CONTRACTOR COMPLY WITH THE LATEST EDITIONS OF THE F.D.O.T. STANDARD SPECIFICATIONS SECTION 104 (PREVENTION, CONTROL AND ABATEMENT OF EROSION AND WATER POLUTION), AND THE STATE OF FLORDE AROSION AND SEDIMENT CONTROL DESIGNER AND REVIEWER MANUAL (THE "E&SC MANUAL").
- THE DETAILS ON THIS SHEET REPRESENT TYPICAL BEST MANAGEMENT PRACTICES FOR SOIL EROSION CONTROL. THEY MAY NOT SATISFY ALL REQUIREMENTS FOR COMPLIANCE WITH REGULATORY AGENCIES AND / OR SPECIFIC PERMIT CONDITIONS AND ALL MAY NOT APPLY TO THIS PROJECT.
- THE CONTRACTOR AND/OR OWNER SHALL VERIFY THAT THE RESPONSIBLE ENTITY HAS OBTAINED A NATIONAL POLLUTANT DISCHARGE ELMINATION SYSTEM (N.P.D.E.S.) GENERAL PERMIT FROM THE UNITED STATES ENVERONMENTAL PROTECTION AGENCY (P.P.A.) / F.D.E.P. AND LOCAL REGULATORY AGENCY AT LEAST 48 HOURS PRIOR TO THE START OF CONSTRUCTION. CONTRACTOR SHALL CREAT MIPLEMENT AND MAINTAIN A STORMINATER FOLLUTION PREVENTION PLAN AS REQUIRED BY THE N.P.D.E.S. GENERAL PERMI
- AREAS LOCATED ADJACENT TO WETLAND / UPLAND PRESERVE AREAS SHALL BE STABILIZED WITH SOD (OR AS CALLED FOR ON DETAILED PLANS) IMMEDIATELY UPON ACHIEVING FINAL GRADE.
- EROSION CONTROL DEVICES WILL BE INSTALLED ALONG THE BOLINDARY OF THE CONSERVATION EROSAN CONTINCE, DEVICES WILL DE INSTALLED ALONG THE BOUNDARY OF THE CONSERVATION AREAS, PRESERVES AND/OR WETLAND A REAS PRIOR TO CONSTRUCTION. THESE DEVICES SHALL BE SLT SCREENS AND, IN PACES SHALL SHAD AND THE STATE OF THE S
- CONTRACTOR SHALL REMOVE ALL TEMPORARY EROSION CONTROL METHODS UPON COMPLETION OF SOIL STABILIZATION FOR THE PROJECT. AT THAT TIME THE RESPONSIBLE ENTITY SHALL FILE AN N.P.D.E.S. STORMWATER POLLUTION PREVENTION PLAN NOTICE OF TERMINATION WITH THE F.D.E.P.
- CONTRACTOR SHALL UTILIZE APPROPRIATE METHODS TO CONTROL WIND EROSION AND DUST. ALL
 AREAS SHALL BE STABILIZED AS NECESSARY TO CONTROL EROSION WITHIN 7 DAYS OF FINAL GRADING
- FOR ADDITIONAL EROSION CONTROL DETAILS NOT SHOWN ON THIS PLAN, SEE F.D.O.T. ROADWAY STANDARDS INDEX DRAWINGS.

CONTRACTOR RESPONSIBILITIES:

- PREPARE AND SIGN A NOTICE OF INTENT FORM (N.O.1.) AND SUBMIT TO THE REGULATORY AGENCY ALONG WITH ANY REQUIRED FEES AND ATTACHMENTS, OR ASSURE THAT AN N.O.I. HAS BEEN FILED AS REQUIRED.
- IMPLEMENT THE STABILIZATION, EROSION CONTROL AND OTHER REQUIREMENTS OF THE S.W.P.P.P / EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN.
- CONDUCT ALL NECESSARY INSPECTIONS AT THE REQUIRED INTERVALS AND PREPARE AND RETA
 WRITTEN DOCUMENTATION OF THOSE INSPECTIONS AND ALL OTHER WRITTEN DOCUMENTATION
 REQUIRED BY THE GENERAL PERMIT.
- KEEP A COPY OF THE S.W.P.P.P. / EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN, ALL N.O.I'S, PERMIT CERTIFICATES; PERMIT LANGUAGE; SPILL PREVENTION, COUNTERMEASURES, AND CLEANUP (S.P.C.C.*) PLAN; INSPECTION DECORDS; AND OTHER REQUIRED RECORDS ON THE JOB SITE AND POST IN A PROMINENT PLACE NEAR THE JOB SITE ENTRANCE THOSE DOCUMENTS REQUIRED TO BE POSTED UNDER THE TERMS OF THE GENERAL PERMI
- 6 CONTRACTOR SHALL PROVIDE MONTHLY TRAINING SESSIONS FOR ALL ENTITIES AND BECONTRACTORS INVOLVED WITH INSTALLING, APPLYING, PERFORMING, MAINTAINING AND
 SPECTION OF THE S.W.P.P.P. / EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN
- UPDATE AND MAKE CHANGES TO THE S.W.P.P.P. /EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN AND SUPPORTING DOCUMENTS (SUCH AS THE B.M.P.'S AND / OR S.P.C.C.) AS NEEDED AND WITH THE APPROVAL OF THE OPERATOR AND THE OPERATOR'S ENGINEER.
- 8 PREPARE AND SIGN A NOTICE OF TERMINATION (N O T) FORM WHEN SITE WORK CONSTRUCTION IS PREFARE AND SIGNED AND STABILIZATION IS ACHIEVED. TRANSFER THE S.W.P.P.P. /EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN DOCUMENTS, ALONG WITH ALL N.O.I.S, PERMIT CERTIFICATES, N.O.T. AND WRITHEN RECORDS REQUIRED BY THE GENERAL PERMIT TO THE OPERATOR FOR ARCHIVING IN BOTH PAPER AND OPTICALLY-SCANNED FORMAT ON A CD.

Darraco and Associates, Inc

CIVIL ENGINEERING - LAND SURVEYING I AND PLANNING

www.barraco.net

2271 McGREGOR BLVD., SUITE 100 POST OFFICE DRAWER 2800 FORT MYERS, FLORIDA 33902-2800 FAX (239) 461-3169

LORIDA CERTIFICATES OF AUTHORIZATIO NGINEERING 7995 - SURVEYING LB-694



1500 MONROE STREET FORT MYERS, FLORIDA 33901 PHONE (239)533-8580 FAX (239)485-8520

PROJECT DESCRIPTION

HANCOCK BRIDGE **PARKWAY** SIDEWALK AND DRAINAGE **IMPROVEMENTS**

> MOODY ROAD TO U.S. 41

ENGINEER OF RECORD

CARL A. BARRACO, P.E., FOR THE FIRM LORIDA P.E. NO. 38536 - CARLB@BARRACO

PYRIGHT 2019, BARRACO AND ASSOCIATES, I

CATION J:\23404\DWG\DO\ T DATE FRI 6-28-2019 - 2:15 PM T BY WES KAYNE

CROSS REFERENCED DRAWINGS

STER = BAI-EROSION-2 DWG

PLAN REVISIONS

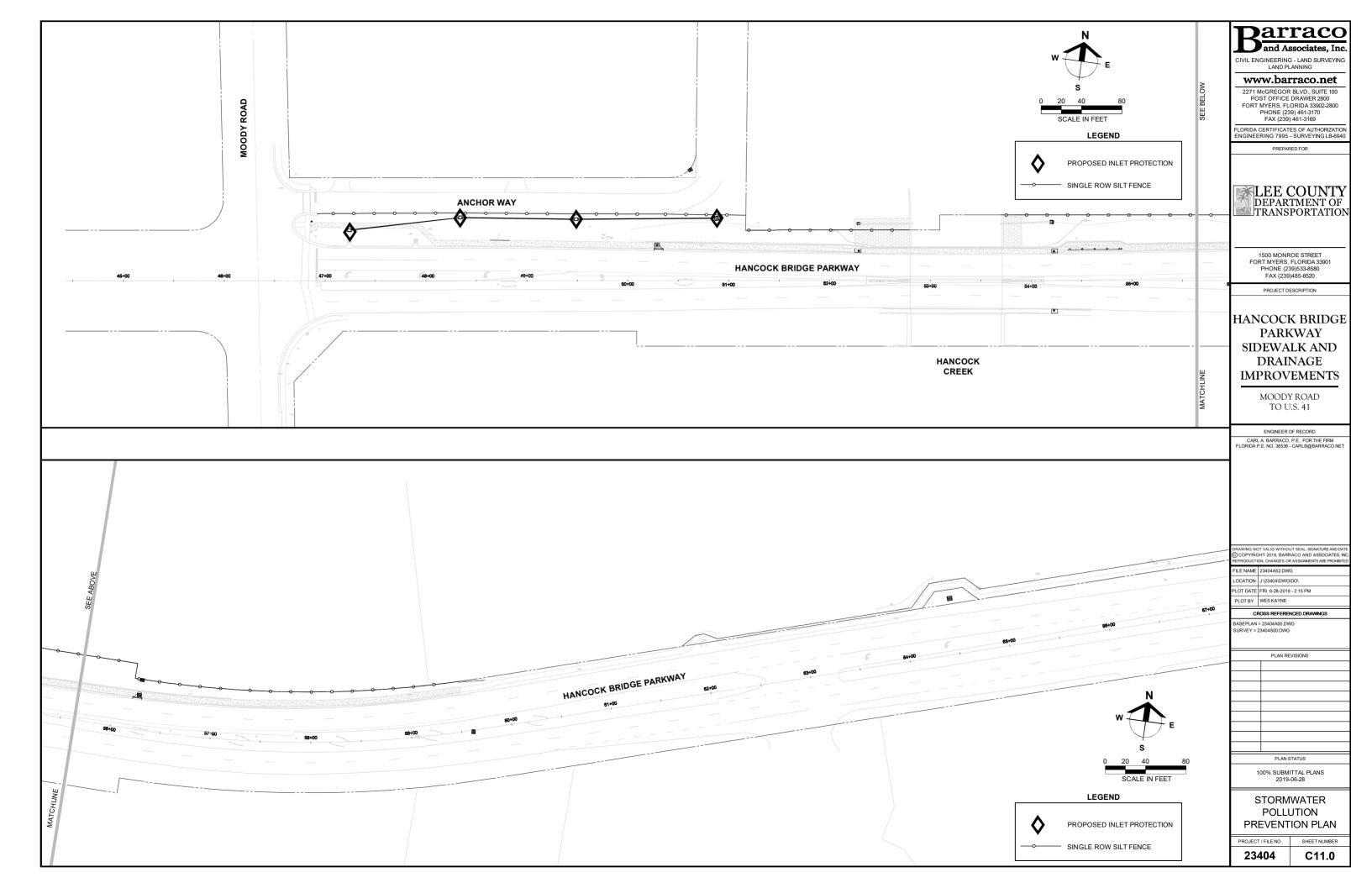
PLAN STATUS

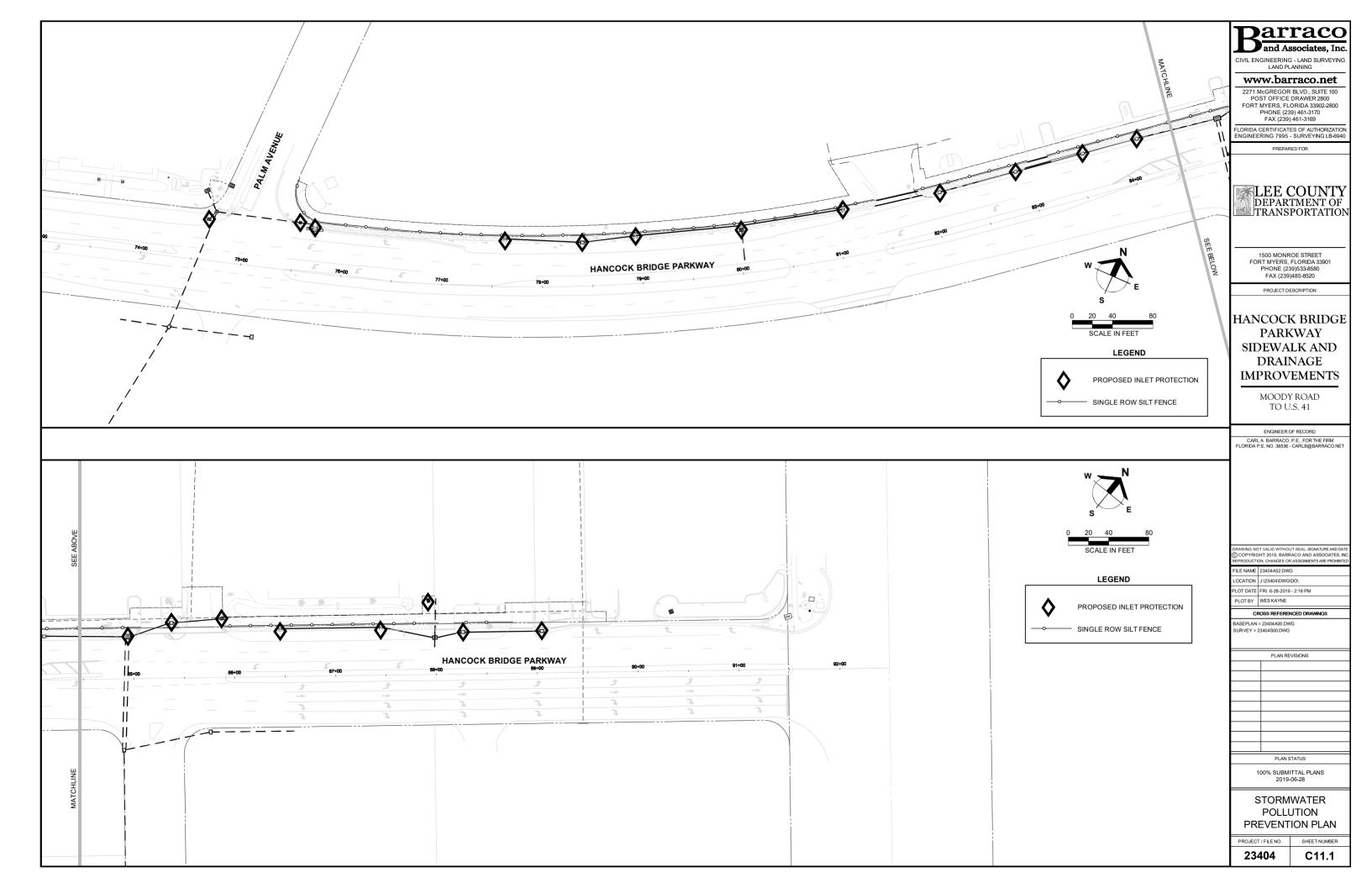
100% SUBMITTAL PLANS 2019-06-28

EROSION CONTROL **DETAILS**

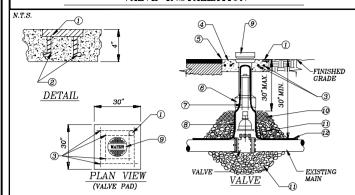
PROJECT / FILE NO. SHEET NUMBER

23404 C10.0



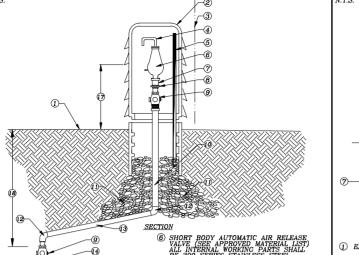


STANDARD DETAIL NO. 6.2 LEE COUNTY UTILITIES VALVE INSTALLATION



- ① BRASS PLATE: SIZE OF VALVE, VALVE TYPE No. OF TURNS & DIRECTION TO OPEN VALVE M.F.G. & YEAR INSTALL SYSTEM "WATER" OR "SEWER" OR "REUSE" OR "FIRE"
- (2) ANCHOR
- 3 EIGHT (8) #4 BARS OVERLAP EACH CORNER BY 2"
- (4) 30"SQ X 4" THK.CONC.PAD SURROUNDING BOX, MIN. 3,000 P.S.I. POURED IN PLACE
- ⑤ SET TOP OF BOX FLUSH WITH FINISHED GRADE
- 6 HEAVY DUTY TRAFFIC BEARING CAST IRON VALVE BOX, ADJUSTABLE SCREW TYPE, 5 1/4" DIAMETER SHAFT THAT IS LCU APPROVED
- ? EXTENSION STEM WITH 2" OPERATING NUT AS REQUIRED, IF NUT IS MORE THAN 30" BELOW FINISH GRADE
- (8) RISER NOT TO BEAR ON VALVE OR PIPE
- 9 CAST IRON DROP COVER MARKED "WATER" OR "SEWER" OR "REUSE OR "FIRE"
- (O) COMPACTED SUITABLE EARTH BACKFILL
- (1) 3/4" GRANULAR MATERIAL #57 STONE
- 12 GAUGE DOUBLE INSULATED COPPER LOCATING WIRE (SEE LCU STANDARD DETAIL)

STANDARD DETAIL NO. 6.4 LEE COUNTY UTILITIES AUTOMATIC AIR RELEASE VALVE



7 PVC SCHEDULE 80 8 PVC REDUCER IF NEEDED

1 FINISHED GRADE

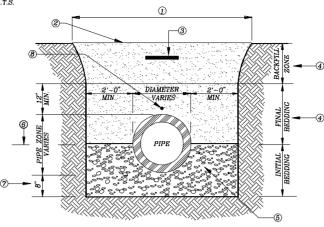
(4) PVC STREET ELL.

② PEDESTAL HOUSING (SEE APPROVED MATERIAL LIST)

(3) EDGE OF RIGHT-OF-WAY

- 9 BRASS BALL CORP STOP 0 2" POLY-TUBE 1) 3/4" GRANULAR MATERIAL, #57 STONE
- (2) 2" BRASS FITTING IF NECESSARY (3) 1% MIN. SLOPE UP, 2" POLY-TUBE COLORS: BLUE-WATER, GREEN-SEWER, PANTONE-REUSE (4) TAP AT CROWN OF PIPE
 - (5) 2" DOUBLE STRAP TAPPING SADDLE (SEE APPROVED MATERIAL LIST) (6) EXISTING PRESSURE MAIN
 - (17) 24" (B) 30" MIN.

STANDARD DETAIL NO. 6.5 LEE COUNTY UTILITIES TRENCH CROSS SECTION

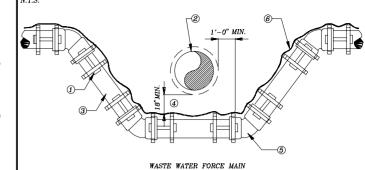


- 1 EXCAVATED TRENCH
- (2) FINISHED GRADE

REV: 12/10/2015

- (3) MARKING TAPE 12" DEPTH MAX.
- MATERIALS CLEAN DRY SAND, FINE LIME ROCK OR PIT SHELL MECHANICALLY COMPACTED IN MECHANICALLI COMPACTED IN 6" LIFTS TO AT LEAST 95% OF MAX. DENSITY, OR 98% IF UNDER PAVED AREA OF ROADWAY.
- (5) #57 STONE LOCATED UNDER PIPE (B) LOCATING WIRE IS REQUIRED FOR ALL PRESSURIZED PIPELINES. OR EXISTING UNDISTURBED SUITABLE MATERIAL
- 6 SPRING LINE
- (9) SPRING LINE
 (7) STANDARD 8" MIN TRENCH UNDERCUT
 AND BACKFILL WITH \$57 STONE
 COMPACTED IN 6" LIFTS
 ADDITIONAL UNDERCUT AND CRUSHED ROCK
 BEDDING FOUNDATION WHEN DIRECTED BY
 L.C.U. THE CONTRACTOR IS TO REMOVE
 UNSTABLE MATERIAL FROM THE TRENCH
 FOUNDATION. THEN INSTALL STABILIZED
 CRUSHED ROCK BACKFILL WITH \$57 STONE
 COMPACTED IN 8" LIETS COMPACTED IN 6" LIFTS

STANDARD DETAIL NO. 6.11 LEE COUNTY UTILITIES WASTE WATER FORCE MAIN VERTICAL OFFSET WITH FITTINGS, (P.V.C.)



- LCU APPROVED JOINT RESTRAINT FOR P.V.C., M.J. PIPE AND FITTINGS PLACED IN ACCORDANCE WITH JOINT RESTRAINT SCHEDULE. (SEE DETAIL 6.12)
- (2) CONFLICT PIPE
- 3 LCU APPROVED C-900 PVC DR 14
- 4 18" MIN. UNLESS OTHERWISE APPROVED BY LCU
- 45° MECHANICAL JOINT FITTING, TYPICAL
- (6) 12 GAUGE DOUBLE INSULATED COPPER WIRE (SEE LCU STANDARD DETAIL)

Darraco and Associates, Inc

CIVIL ENGINEERING - LAND SURVEYING

www.barraco.net

2271 McGREGOR BLVD., SUITE 100 POST OFFICE DRAWER 2800 FORT MYERS ELORIDA 33902-2800 PHONE (239) 461-3170 FAX (239) 461-3169

LORIDA CERTIFICATES OF AUTHORIZATION NGINEERING 7995 - SURVEYING LB-6940



FORT MYERS, FLORIDA 33901 PHONE (239)533-8580

PROJECT DESCRIPTION

HANCOCK BRIDGE **PARKWAY** SIDEWALK AND DRAINAGE **IMPROVEMENTS**

> MOODY ROAD TO U.S. 41

ENGINEER OF RECORD

CARL A. BARRACO, P.E., FOR THE FIRM FLORIDA P.E. NO. 38536 - CARLB@BARRACO.

STANDARD DETAIL NO. 6.12 LEE COUNTY UTILITIES RESTRAINED LENGTH SCHEDULE

DUCTILE IRON PIPE

PIPE	MIN	MUM REST	RAINED PIPE	LENGTH (1	TEET)	
SIZE		HORIZON	TAL BENDS		DEAD	HORIZONTAL
(Inches)	90°	45°	22-1/2*	11-1/4	END	TEE
4	17	7	4	2	29	6
6	23	10	5	2	40	17
8	29	12	6	3	53	29
10	35	14	7	4	63	38
12	41	17	8	4	74	49
16	51	21	11	5	94	68
24	69	29	14	7	131	105
30	81	34	17	8	156	129

PVC PIPE

PIPE	MINIMUM RESTRAINED PIPE LENGTH (FEET)					
SIZE		HORIZON	TAL BENDS		DEAD	HORIZONTAL
(Inches)	90.	45°	22-1/2	11-1/4	END	TEE
4	20	8	4	2	45	8
6	29	12	6	3	63	25
8	36	15	8	4	83	43
10	44	18	9	5	99	58
12	51	21	11	5	116	74
16	63	26	13	7	149	103
24	87	36	18	9	208	158
30	102	42	21	10	248	194

A COMPLETE JOINT RESTRAINING SCHEDULE FOR ALL ENCOUNTERED VERTICAL & HORIZONTAL BENDS, VERTICAL OFFSETS, TEES, AND DEAD ENDS SHALL BE THE RESPONSIBILITY OF THE DESIGN ENGINEER.

LENGTH FIGURES BASED ON FOLLOWING:

Pressure = 150 psi, FS = 1.5, trench type = 3, 30" cover on Bare pipe, Soil type = GP & SP

WING NOT VALID WITHOUT SEAL, SIGNATURE AND DAT COPYRIGHT 2019, BARRACO AND ASSOCIATES, IN DCATION J:\23404\DWG\DO\ OT DATE FRI 6-28-2019 - 2:16 PM LOT BY WES KAYNE CROSS REFERENCED DRAWINGS

PLAN REVISIONS

100% SUBMITTAL PLANS 2019-06-28

UTILITY **DETAILS**

PROJECT / FILE NO. SHEET NUMBER

23404 C12.0

LEE COUNTY DEPARTMENT OF TRANSPORTATION

FINAL PLANS

INDEX OF STRUCTURE PLANS

SHEET NO. SHEET DESCRIPTION

GENERAL SHEETS

B-01 KEY SHEET B-02 GENERAL NOTES HANCOCK BRIDGE PARKWAY OVER HANCOCK CREEK BRIDGE #124019

STRUCTURE PLANS

BRIDGE NO. 124019

B1-01 PLAN AND ELEVATION TYPICAL SECTION B1-02 B1-03 SUPERSTRUCTURE PLAN B1-04 SUPERSTRUCTURE DETAILS B1-05 FORCEMAIN CONNECTION DETAILS REINFORCING BAR LIST B1-06 B1-07 THRU B1-11 FD0T INDEX NO. 521-001 B1-12 THRU B1-14 FDOT INDEX NO. 521-423 B1-15 THRU B1-18 FDOT INDEX NO. 521-426

NOTE: THE SCALE OF THESE PLANS MAY HAVE CHANGED DUE TO REPRODUCTION.

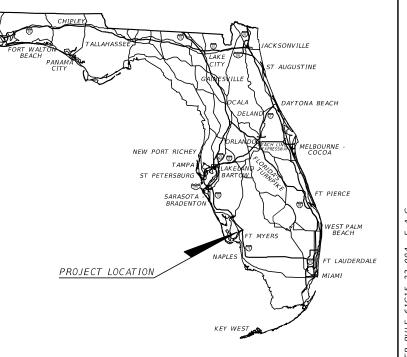
GOVERNING DESIGN STANDARDS:

Florida Department of Transportation, FY2018-19 Standard Plans for Road and Bridge Construction and applicable Interim Revisions (IRs).

Standard Plans for Road Construction and associated IRs are available at the following website: http://www.fdot.gov/design/standardplans

GOVERNING STANDARD SPECIFICATIONS:

Florida Department of Transportation, January 2019 Standard Specifications for Road and Bridge Construction at the following website: http://www.fdot.gov/programmanagement/Implemented/SpecBooks



STRUCTURAL SHOP DRAWING TO BE SUBMITTED TO:

VINCENT ZALIAUSKAS, P.E.
P.E. LICENSE NUMBER 60524
HIGHSPANS ENGINEERING, INC.
2121 MCGREGOR BLVD. SUITE 200
FORT MYERS, FL 33901
TEL: (239) 433-3000 CERTIFICATE OF AUTHORIZATION NO. 27559

STRUCTURE PLANS ENGINEER OF RECORD:

VINCENT ZALIAUSKAS, P.E. P.E. LICENSE NUMBER 60524 HIGHSPANS ENGINEERING, INC. 2121 MCGREGOR BLVD. SUITE 200 FORT MYERS, FL 33901 TEL: (239) 433-3000 CERTIFICATE OF AUTHORIZATION NO. 27559

LEE COUNTY PROJECT MANAGER:

ALEJANDRO SLAIBE, E.I.

CONSTRUCTION CONTRACT NO.	FISCAL YEAR	SHEET NO.
	18	B-01

- A. DESIGN SPECIFICATIONS

 1. FDOT STRUCTURES MANUAL DATED JANUARY 2019 AND SUBSEQUENT STRUCTURES DESIGN BULLETINS.

 2. AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS (AASHTO) LOAD AND RESISTANCE FACTOR (LRFD) BRIDGE DESIGN SPECIFICATIONS, 8TH EDITION AND ALL SUBSEQUENT INTERIMS.

 3. LOAD RATING IS BASED ON THE 2018 MANUAL FOR CONDITION EVALUATION AND LOAD RESISTANCE FACTOR RATING CONDITION EVALUATION AND LOAD RESISTANCE FACTOR MANUAL FOR CONDITION EVALUATION AND LOAD RESISTANCE FACTOR MANUAL FOR CONDITION EVALUATION AND LOAD RESISTANCE FACTOR MANUAL FACTOR CONDITION EVALUATION AND LOAD RESISTANCE FACTOR MANUAL FACTOR CONDITION EVALUATION AND LOAD RESISTANCE FACTOR MANUAL FACTOR CONDITION EVALUATION AND LOAD RESISTANCE FACTOR FACTOR CONDITION EVALUATION AND LOAD RESISTANCE FACTOR CONDIT (LRFR) OF HIGHWAY BRIDGES, AND AS AMENDED BY VOLUME 8, OF THE JANUARY 2018 STRUCTURES MANUAL. FDOT DESIGN MANUAL DATED JANUARY, 2018 AND SUBSEQUENT ROADWAY DESIGN BULLETINS.

 - LEE COUNTY UTILITIES DESIGN MANUAL, CURRENT EDITION.
- B. GOVERNING STANDARDS AND CONSTRUCTION SPECIFICATIONS

FLORIDA DEPARTMENT OF TRANSPORTATION, 2018-19 STANDARD PLANS AND REVISED INDEX DRAWINGS AS APPENDED HEREIN, AND JANUARY 2019 STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, AS AMENDED

C. VERTICAL DATUM

VERTICAL DATUM USED IS THE ONE SHOWN IN THE ROADWAY PLANS.

D ENVIRONMENT

BRIDGE NUMBER	SUPERSTRUCTURE	SUBSTRUCTURE
124019	EXTREMELY AGGRESSIVE	EXTREMELY AGGRESSIVE

E. DESIGN METHODOLOGY

LOAD AND RESISTANCE FACTOR DESIGN (LRFD) METHOD USING STRENGTH, SERVICE AND FATIGUE LIMIT STATES. THE DESIGN USED COMPOSITE SECTION PROPERTIES TO RESIST LIVE LOADS AND COMPOSITE DEAD LOADS.

F. DESIGN LOADINGS

1. LIVE LOADS:

HL-93 WITH DYNAMIC LOAD ALLOWANCE SEE LOAD RATING FOR OTHERS

PEDESTRIAN: 90 PSF

2. DEAD LOADS:

UNIT WEIGHT OF REINFORCED LIGHTWEIGHT CONCRETE: 115 PCF 32" VERTICAL RAILING WITH 2-BULLET BIKE/PED RAILING: 395 PLF 36" SINGLE-SLOPE MEDIAN CONCRETE BARRIER: 645 PLF DESIGN DOES NOT INCLUDE AN ALLOWANCE OF 15 PSF FOR FUTURE WEARING SURFACE.

3. WIND LOADS:

WIND LOADS ARE IN ACCORDANCE WITH SDG 2.4 AND LRFD 3.8. TIDAL/STORM EVENT LOADS:

DISTANCE TO OPEN WATER: 2,000 FT

COASTAL ENGINEERING ANALYSIS IS NOT PART OF THIS PROJECT.

EARTHQUAKE LOADS:

NO DETAILED SEISMIC ANALYSIS IS REQUIRED FOR THIS TYPE OF BRIDGE IN FLORIDA ACCORDING TO THE STRUCTURES DESIGN GUIDELINES SECTION 2.3.1.A.

VEHICLE COLLISION FORCE:

7. UTILITIES:

ALLOWANCE FOR UTILITY LOADS HAS NOT BEEN INCLUDED IN THE DESIGN.

G. MATERIALS

1. REINFORCING STEEL:

ALL REINFORCING STEEL SHALL BE ASTM A615, GRADE 60.

CONCRETE CLASS	MIN. 28-DAY COMPRESSIVE STRENGTH (PSI)	LOCATION OF CONCRETE IN STRUCTURE
LIGHTWEIGHT IV (115 PCF)	F'C = 4,500	C.I.P. TRAFFIC RAILING
LIGHTWEIGHT IV (115 PCF)	F'C = 4,500	C.I.P. SIDEWALK

ALL CONCRETE SHALL BE IN ACCORDANCE WITH STANDARD SPECIFICATIONS SECTION 346

3. CONCRETE COVER:

CAST-IN-PLACE SUPERSTRUCTURE (TOP OF SIDEWALK)	2"
CAST-IN-PLACE TRAFFIC RAILING	2"

CONCRETE COVER DIMENSIONS SHOWN IN THE PLANS DO NOT INCLUDE PLACEMENT AND FABRICATION TOLERANCES UNLESS SHOWN AS "MINIMUM COVER". SEE SPECIFICATIONS SECTION 415 FOR ALLOWABLE TOLERANCES. ALL DIMENSIONS PERTAINING TO THE LOCATION OF REINFORCING STEEL ARE TO CENTERLINE OF BAR EXCEPT WHERE CLEAR DIMENSION IS NOTED TO FACE OF CONCRETE.

4. GROUT:

NON-SHRINK GROUT LISTED ON FDOT APL: COMPRESSIVE STRENGTH @ 1 HR. = 4,800 PSI.

INITIAL SET TIME = 20 MIN.

FORCEMAIN STEEL BRACKET AND HARDWARE: STAINLESS STEEL 316 GRADE, 30 KSI.

H. APPLIED FINISH COATING

CLEAN AND COAT SUPERSTRUCTURE AND RAILINGS (BOTH) AND APPLY CLASS V FINISH COAT

I PLAN DIMENSIONS

ALL DIMENSIONS IN THESE PLANS ARE MEASURED IN FEET EITHER HORIZONTALLY OR VERTICALLY UNLESS OTHERWISE NOTED.

FOR PLAN LOCATIONS OF EXISTING UTILITIES, SEE PLAN AND ELEVATION SHEET(S). LOCATIONS OF UTILITIES, INCLUDING UNDER DECK LIGHTING, SHOWN IN THE PLANS ARE APPROXIMATE. FOR DISPOSITION OF UTILITIES, SEE THE UTILITY ADJUSTMENT SHEETS (S) IN THE ROADWAY PLANS & FIELD LOCATED BY THE CONTRACTOR.

CALL SUNSHINE 811 BEFORE YOU DIG:



K. BRIDGE NAME AND NUMBER

PLACE THE FOLLOWING BRIDGE NAME AND NUMBER ON THE TRAFFIC RAILINGS IN ACCORDANCE WITH THE TRAFFIC RAILING DESIGN STANDARDS:

HANCOCK BRIDGE PARKWAY/HANCOCK CREEK 124019

L. SCREEDING DECKS

MANUAL SCREEDS ARE ACCEPTABLE FOR SIDEWALK.

M. STAY-IN-PLACE DECK FORMS

STAY-IN-PLACE DECK FORMS WILL NOT BE PERMITTED ON THIS PROJECT.

N. JOINTS IN CONCRETE

CONSTRUCTION JOINTS WILL BE PERMITTED ONLY AT THE LOCATIONS INDICATED IN THE PLANS. ADDITIONAL CONSTRUCTION JOINTS OR ALTERATIONS TO THOSE SHOWN SHALL REQUIRE APPROVAL OF THE ENGINEER.

O. EXISTING BRIDGE CONSTRUCTION CONSIDERATIONS

- 1. DIMENSION VERIFICATION: UNLESS OTHERWISE NOTED, THE DIMENSIONS, ELEVATIONS AND INTERSECTING ANGLES SHOWN ARE BASED ON THE INFORMATION AS DETAILED IN THE ORIGINAL CONSTRUCTION PLANS OF THE EXISTING BRIDGES AND MAY NOT REPRESENT AS-BUILT CONDITIONS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THIS DATA BEFORE BEGINNING CONSTRUCTION AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES.
- EXISTING REINFORCING STEEL: ALL SUPERSTRUCTURE DECK TRANSVERSE REINFORCING STEEL, BOTH TOP AND BOTTOM LAYERS, AND END BENT REINFORCING STEEL, SHALL BE PROTECTED, SALVAGED AND UTILIZED IN THE NEW STRUCTURE. CUTTING OF THIS REINFORCING STEEL AND SUBSTITUTION OF EPOXY BONDED DOWELS IS NOT PERMITTED AS A CONSTRUCTION OPTION.
- THE EXISTING SLABS CONTAIN PRESTRESSING STRANDS THAT SHALL NOT BE DAMAGED.
 ANY DAMAGE TO EXISTING REINFORCING STEEL OR PRESTRESSING STRANDS SHALL BE REPAIRED TO THE
 SATISFACTION OF THE COUNTY AT THE SOLE EXPENSE OF THE CONTRACTOR.

P TRAFFIC CONTROL PLANS

FOR TRAFFIC CONTROL, SEE THE TRAFFIC CONTROL PLANS IN THE ROADWAY PLANS.

WORK PHASING AND PROGRESSION OF THE WORK SHALL CONFORM TO THE TRAFFIC CONTROL PLANS LOCATED IN THE ROADWAY PLANS AND THE NOTES ON THE CONSTRUCTION SEQUENCE DRAWINGS.

ALL EXPOSED EDGES AND CORNERS OF CONCRETE SHALL HAVE 3/4" x 3/4" CHAMFERS UNLESS OTHERWISE NOTED.

S. DECK GROOVING

BROOM FINISH ON SIDEWALK.

T. VESSEL COLLISION

- 1. U.S. ARMY CORPS OF ENGINEERS, 2011, PART 1, WATERWAYS AND HARBORS WATERBORNE COMMERCE OF THE UNITED STATES, DOES NOT RECOGNIZE THIS CROSSING AS A COMMERCIAL WATERWAY. NO BARGES OR SHIPS USE
- LRFD IMPORTANCE CLASSIFICATION IS NOT APPLICABLE TO THIS STRUCTURE.
- 3. VESSEL COLLISION IS NOT INCORPORATED IN THE DESIGN OF THIS STRUCTURE.

U. DESIGN TEMPERATURES

THERMAL COEFFICIENT OF EXPANSION OF CONCRETE: 0.000005 PER °F THERMAL COEFFICIENT OF EXPANSION OF HDG STEEL: 0.0000065 PER °F THERMAL COEFFICIENT OF EXPANSION OF HDPE: 0.00012 PER °F NORMAL MEAN TEMPERATURE = 70°F TEMPERATURE RANGE: RISE = 35°F AND FALL = 35°F

V. ENVIRONMENTAL CONSIDERATIONS

CARE SHALL BE TAKEN TO ADHERE TO ALL REQUIREMENTS NOTED IN THE ENVIRONMENTAL PERMITS.

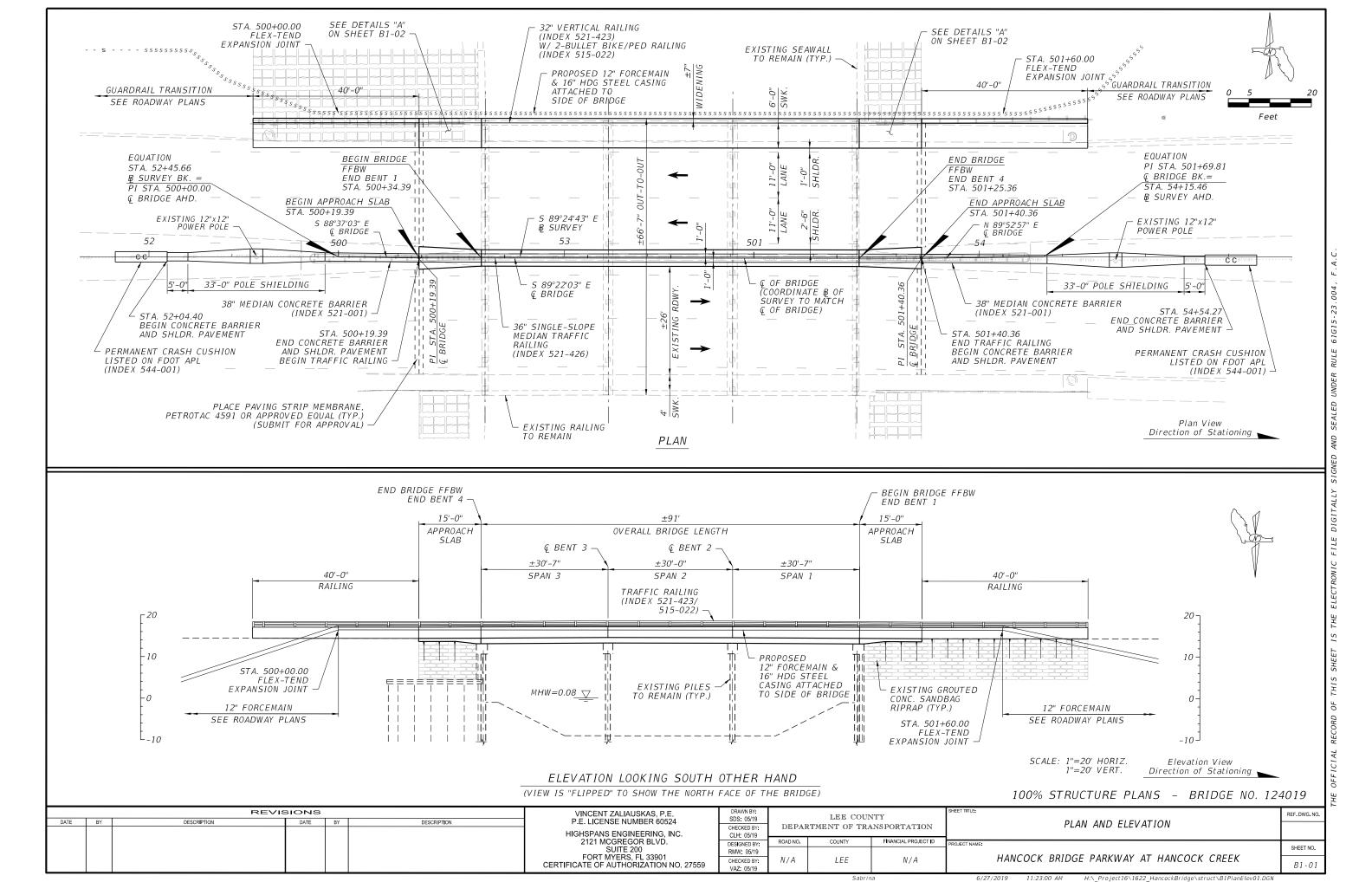
W. ASBESTOS

THE EXISTING BRIDGE PLANS INDICATE THE POSSIBILITY OF ASBESTOS PRESENT AT THE BRIDGE SITE (PRE-EXISTING SEAWALL PANELS). A CONTAMINATION ASSESSMENT REPORT IS RECOMMENDED FOR THIS PROJECT TO IDENTIFY POTENTIAL CONTAMINATION.

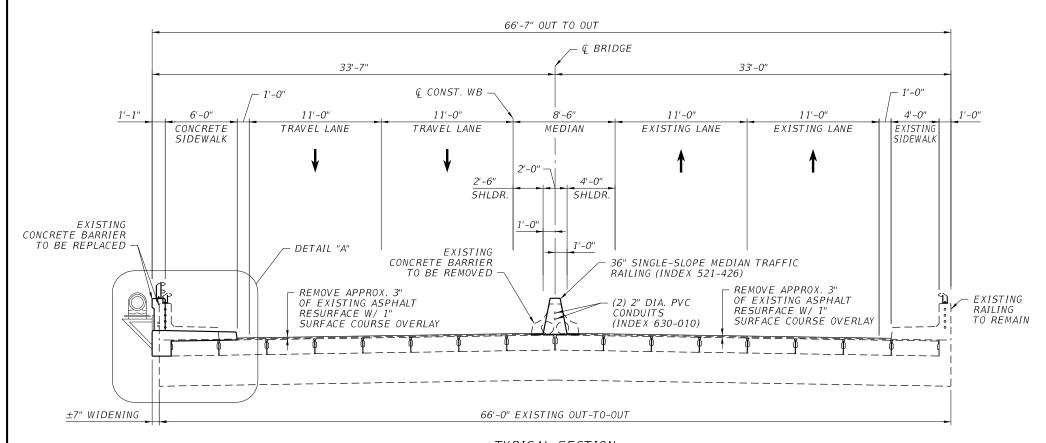
X. NAVIGATION

ANY SHORT TERM IMPACTS TO NAVIGATION (FORMWORK, ETC) SHALL BE COORDINATED WITH THE UNITED STATES COAST GUARD (USCG), MR. EDDIE LAWRENCE. EMAIL ADDRESS: eddie.h.lawrence@uscg.mil, TELEPHONE NUMBER (305) 415-6946. IN ADVANCE OF ANY CONSTRUCTION ACTIVITY RESTRICTING HORIZONTAL AND/OR VERTICAL CLEARANCES THE CONTRACTOR SHALL SUBMIT TO THE COUNTY A CONSTRUCTION PLAN APPROVED BY THE USCG.

	REVISIONS			VINCENT ZALIAUSKAS, P.E.	DRAWN BY:		LEE COU	VTY	SHEET TITLE:		REF. DWG. NO.		
DATE BY	DESCRIPTION	DATE BY	DESCRIPTION	P.E. LICENSE NUMBER 60524 HIGHSPANS ENGINEERING, INC.	SDS: 05/19 CHECKED BY: CLH: 05/19	DEPARTMENT OF TRANSPORTATION GENERAL NOTES						GENERAL NOTES	
				2121 MCGREGOR BLVD. SUITE 200	DESIGNED BY: RMW: 05/19	ROAD NO.	COUNTY	FINANCIAL PROJECT ID	PROJECT NAME:		SHEET NO.		
				FORT MYERS, FL 33901 CERTIFICATE OF AUTHORIZATION NO. 27559	CHECKED BY: VAZ: 05/19	N/A	LEE	N/A		HANCOCK BRIDGE PARKWAY AT HANCOCK CREEK	B - 02		
	Sabrina 6/27/2019 11:22:59 AM H:_Project16\\1622_HancockBridge\\struct\\B1GeneralNotes01.DGN												



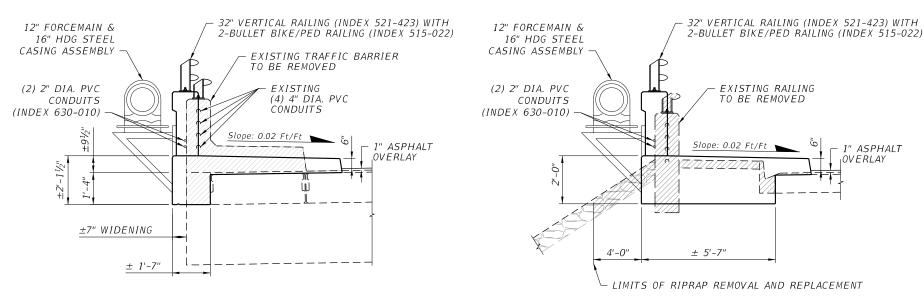




NOTES

- 1. COORDINATE BASELINE OF SURVEY TO MATCH CENTERLINE OF BRIDGE.
- 2. REMOVE APPROXIMATELY 3" OF EXISTING ASPHALT OVERLAY FROM BRIDGE AND APPROACH SLABS WITHOUT DAMAGE TO PRECAST SLAB.
- 3. ASPHALT OVERLAY TO BE PLACED ON BRIDGE AND APPROACH SLABS.
- 4. MATCH EXISTING ASPHALT SLOPE.
- 5. ALL REINFORCING STEEL SHALL BE ASTM A706, GRADE 60KSI.
- 6. CONTRACTOR SHALL SUBMIT LIGHTWEIGHT CONCRETE MIX FOR APPROVAL.
- 7. SIDEWALK DRAINAGE OFF THE BRIDGE SHALL BE COORDINATED WITH ROADWAY PLANS.
- 8. EXISTING UTILITIES TO BE RELOCATED PRIOR TO DEMOLITION OF EXISTING CONCRETE TRAFFIC BARRIERS.
- 9. LEE COUNTY WILL PERFORM EXPANSION JOINT REPLACEMENT FOR THE BRIDGE AFTER MILLING AND RESURFACING.

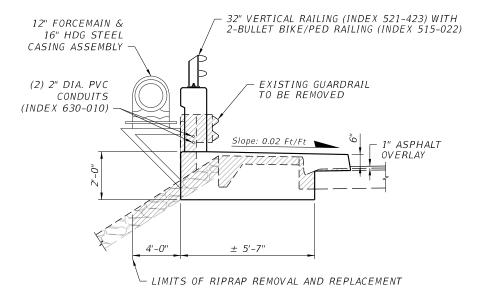
TYPICAL SECTION



DETAIL "A"

TYPICAL SECTION THROUGH BRIDGE DECK

DETAIL "A" TYPICAL SECTION THROUGH APPROACH SLAB AT EXISTING RAILING



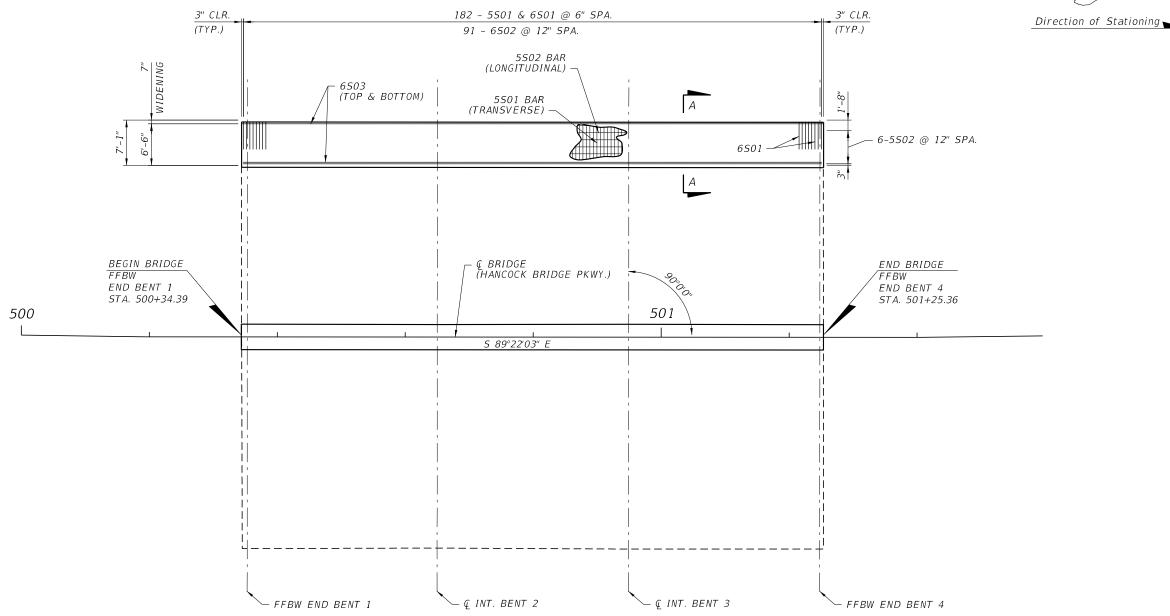
DETAIL "A" TYPICAL SECTION THROUGH APPROACH SLAB AT EXISTING GUARDRAIL



DENOTES TO BE REMOVED

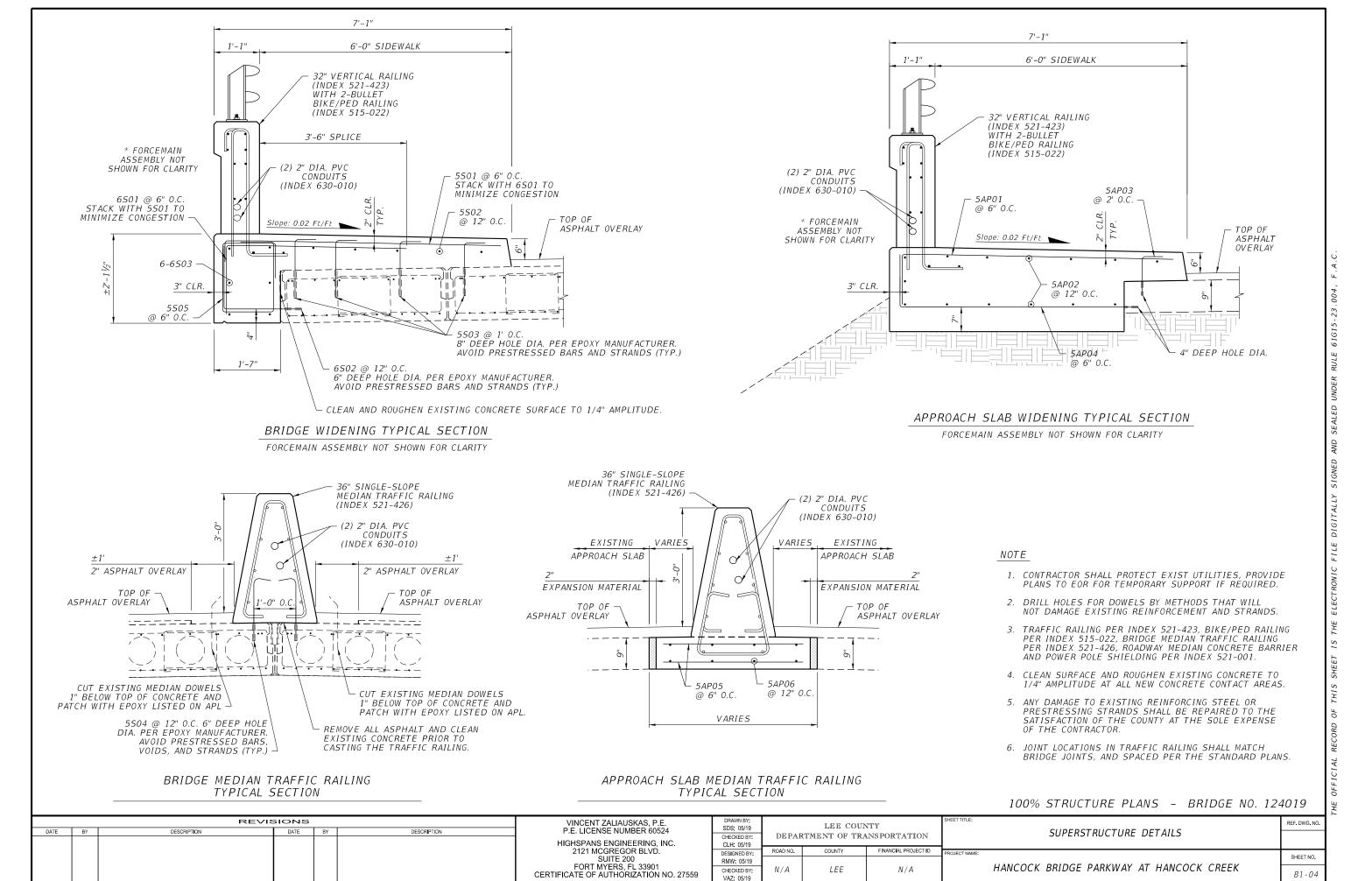
												/		_
REVISIONS					VINCENT ZALIAUSKAS, P.E.	DRAWN BY: SDS: 05/19 LEE COUNTY			JTY	SHEET TITLE:) .	
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	P.E. LICENSE NUMBER 60524	SDS: 05/19	DEDAI	DEPARTMENT OF TRANSPORTATION		ON TYPICAL SECTION			-
						HIGHSPANS ENGINEERING, INC.	CHECKED BY: CLH: 05/19	DETAI	KIMENI OF IKA	MADIORIATION				
						2121 MCGREGOR BLVD.	DESIGNED BY:	ROAD NO.	COUNTY	FINANCIAL PROJECT ID	PROJECT NAME:			1
						SUITE 200	RMW: 05/19					HANCOCK BRIDGE BARKWAY AT HANCOCK CREEK	SHEET NO.	_
						FORT MYERS, FL 33901 CERTIFICATE OF AUTHORIZATION NO. 27559	CHECKED BY:	N/A	LEE	N/A		HANCOCK BRIDGE PARKWAY AT HANCOCK CREEK	B1-02	
						CERTIFICATE OF AUTHORIZATION NO. 27333	VAZ: 05/19				l		D1-02	



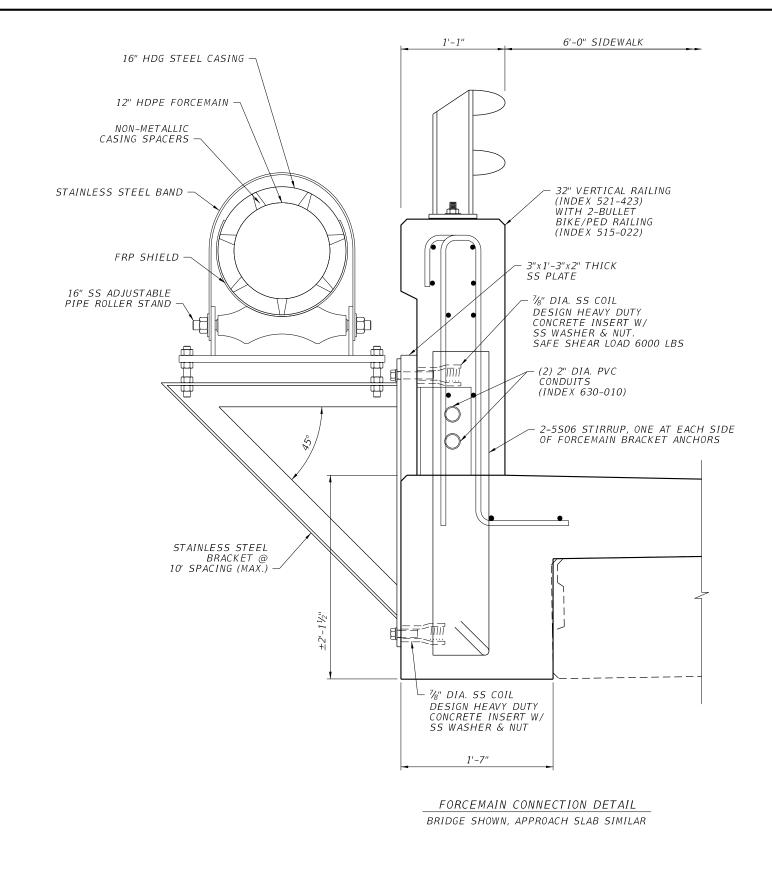


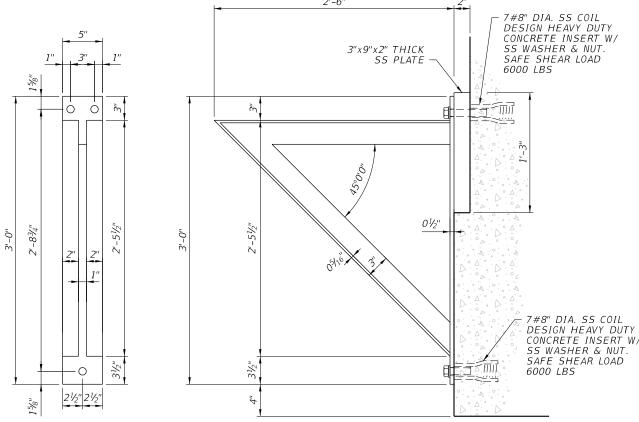
PLAN

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DATE	BY DESCRIPTION	DATE BY	DESCRIPTION	P.E. LICENSE NUMBER 60524		DEDAI	DEPARTMENT OF TRANSPORTATION		CUDEDCT DUCTUDE DIANI			1
				HIGHSPANS ENGINEERING, INC.	CHECKED BY: CLH: 05/19	DETA	KIMBNI OF IK	ANDIORIATION				
				2121 MCGREGOR BLVD.	DESIGNED BY:	ROAD NO.	COUNTY	FINANCIAL PROJECT ID	PROJECT NAME:		†	-1
				SUITE 200	RMW: 05/19				1		SHEET NO.	
				FORT MYERS, FL 33901	CHECKED BY:	N/A	LEE	N/A		HANCOCK BRIDGE PARKWAY AT HANCOCK CREEK	D1 02	1
		1		CERTIFICATE OF AUTHORIZATION NO. 27559	VAZ: 05/10						B1-03	



t16\1622 HancockBridge\struct\B1SuperstDet01 DGN

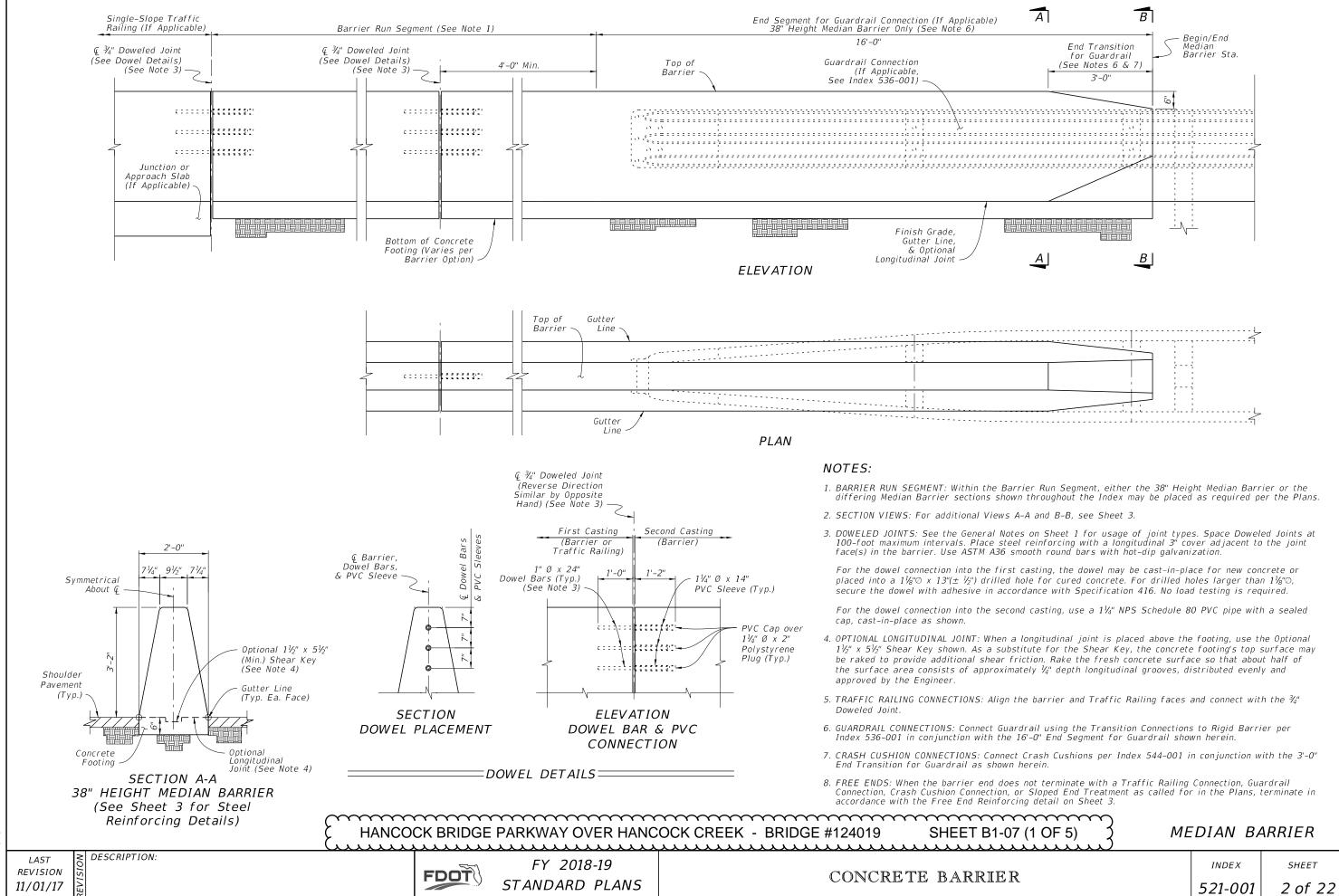




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						HIGHSPANS ENGINEERING, INC.	CHECKED BY:	DEPAR	IMENI OF IRA	ANSPORTATION	1	TOTALLING CONTROL DETTILE	1	
						2121 MCGREGOR BLVD.	CLH: 05/19	ROAD NO	COUNTY	FINANCIAL PROJECT ID				—
						SUITE 200	DESIGNED BY: RMW: 05/19				PROJECT NAME:		SHEET NO.	.
						FORT MYERS, FL 33901		N/A	155	N/A		HANCOCK BRIDGE PARKWAY AT HANCOCK CREEK		-
						CERTIFICATE OF AUTHORIZATION NO. 27559	CHECKED BY:	N/A	LEE	I N/A		HANCOCK BRIDGE FARKWAF AF HANCOCK CREEK	B1-05	5

Mark		Length	No	TYP	STY	00	В	C	D	E	F	H	JK	Ν	ф
Size	Des	Ft In	Bars	BAR	A	G	Ft In	Ft In	Ft In	Ft In	Ft In	Ft In		NO	Al
		Location: Hancock Creek	k Pridge Cidew	all W	doni			1	N.	o. Required =	= 1			Į.	55
E				1000	dem	iig	CI CII	6"	, n	o. Kegurrea =	- <u>1</u>	Ť		Ť	-53
5	501	6'-6"	182	10		- 23	6'-6"	2357	_	No.	10		2 Ac	NO 41	- 23
5	S02	92'-6"	5	2			2'-0"	90'-6"						1	
5	503	1'-10"	368	10	- 2	- 20	1'-4"	6"					8 96	36	- 50
5	504	1'-11"	182	14		- 3	1'-6"	5"		2	10		8 36	36	80
5	505	6'-6"	182	4	4	4	1'-7"	1'-2"							
5	S06	8'-5"	32	4	5	5	3'-2"	7"	69	8	36	ľ	0.00	*	200
6	S01	5'-10"	182	10			4'-3"	1'-7"	3	30	100				2
6	502	3'-4"	91	10			1'-10"	1'-6"	54	i.				Ü	
6	503	92'-6"	6	2			2'-0"	90'-6"		*				1	0
						ā S							5 \$ 5 X	ļ.	31 18
		Location: Hancock Creek			ab	- 25	24-100110502	¥	N	o. Required =	= 2	4 1	200	4	28
5	AP01	7'-7"	30	10			6'-5"	1'-2"							
5	APO2	14'-6"	14	1			14'-6"		63	36	36	1		363	
5	AP03	1'-5"	8	10			11"	6"	3	36				**	- 22
5	APO4	6'-11"	30	10			5'-8"	1'-3"					0 1	Ú.	Ĩ.
5	AP05	4'-8"	60	1			4'-8"								
5	AP06	14'-6"	8	1	2	- W	14'-6"	*	63	*	36	* 3	C 86	38	23
		2.	24	25 10	- 10	19		10	102	Sec.	40	The second	Ö 10	The second	100

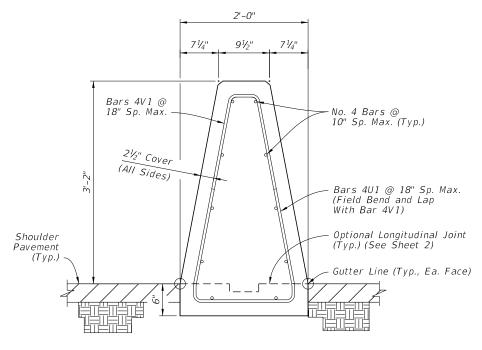
	REVISIONS		VINCENT ZALIAUSKAS, P.E.	DRAWN BY: SDS: 05/19		LEE COUN	NTY	SHEET TITLE:		REF. DWG. NO.			
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	P.E. LICENSE NUMBER 60524	CHECKED BY:	DEPAR		NSPORTATION		REINFORCING BAR LIST	
						HIGHSPANS ENGINEERING, INC.	CLH 05/19	2221 111			1		
						2121 MCGREGOR BLVD.	DESIGNED BY:	ROAD NO.	COUNTY	FINANCIAL PROJECT ID	PROJECT NAME:		SHEET NO.
						SUITE 200	RMW: 05/19					HANGOGK BRIDGE BARKWAY AT HANGOGK CREEK	SHEET NO.
ı						FORT MYERS, FL 33901 CERTIFICATE OF AUTHORIZATION NO. 27559	CHECKED BY:	N/A	LEE	N/A	1	HANCOCK BRIDGE PARKWAY AT HANCOCK CREEK	R1 06
			1			CERTIFICATE OF AUTHORIZATION NO. 27339	VAZ: 05/19						D1-00



PLAN VIEW - 38" HEIGHT MEDIAN BARRIER FREE END REINFORCING (See Note 3)

No. 4 Bars (Only Top And Bottom Bars - Field Cut Bars 4V1 & 4U1 Shown For Clarity, \overline{A} Others Similar) 3" Cover Ų. B91/2" Bars 4V1 & 4U1 @ 18" Sp. Max. 4 Sp. @ 8" $(\pm \frac{1}{2}$ ") 3'-0" End Transition for Guardrail

PLAN VIEW - END SEGMENT FOR GUARDRAIL CONNECTION (See Note 3)





Steel Qty. = 11.8 LB/FT

1'-6" 11¾" Bars 4V1 (Field Cut to Fit Vertically as Reqd. & Field Bend to No. 4 Bars Tapered Lap with Bars 4U1) with Barrier Height No. 4 Bars @ 10" Sp. Max. Cover Varies (Field Cut To Fit (Diagonal Transversally As Segment) Reqd. & Field Shoulder Bend To Lap Pavement With 4V1) (Typ.)21/2" Cover 2½" Cover

VIEW B-B REDUCED SECTION OF END TRANSITION FOR GUARDRAIL (End of Barrier)

NOTES:

- 1. GENERAL: Work with the Plan and Elevation Views on Sheet 2.
- 2. BAR BENDING DIAGRAMS: For additional information on Bars 4V1 and 4U1, see the details on Sheet 22.
- 3. PLAN VIEWS: Only top and bottom longitudinal reinforcing is shown for clarity. For all longitudinal steel locations, see the section views.

HANCOCK BRIDGE PARKWAY OVER HANCOCK CREEK - BRIDGE #124019

SHEET B1-08 (2 OF 5)

MEDIAN BARRIER - REINFORCING DETAILS

LAST **REVISION** 11/01/17

DESCRIPTION:

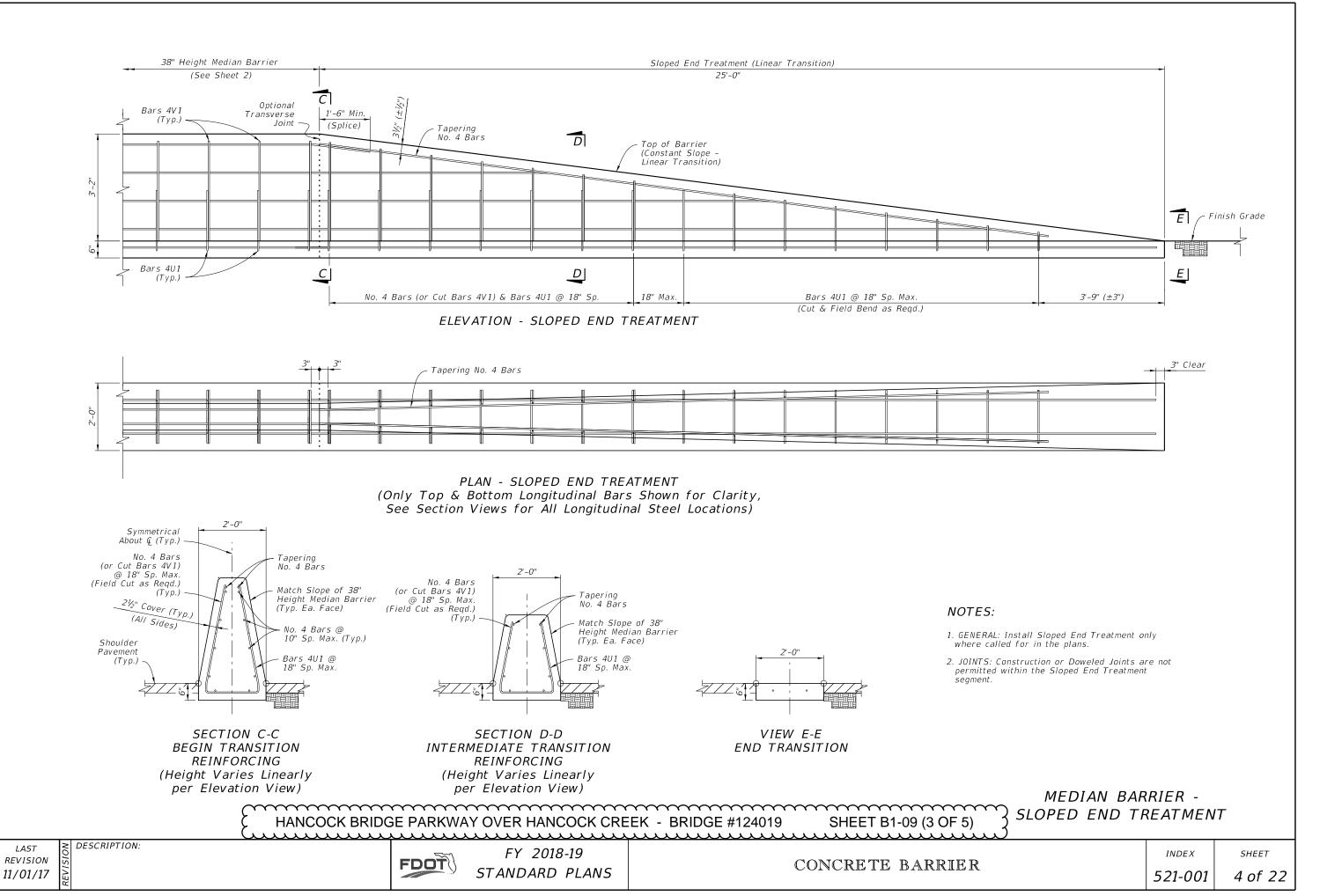
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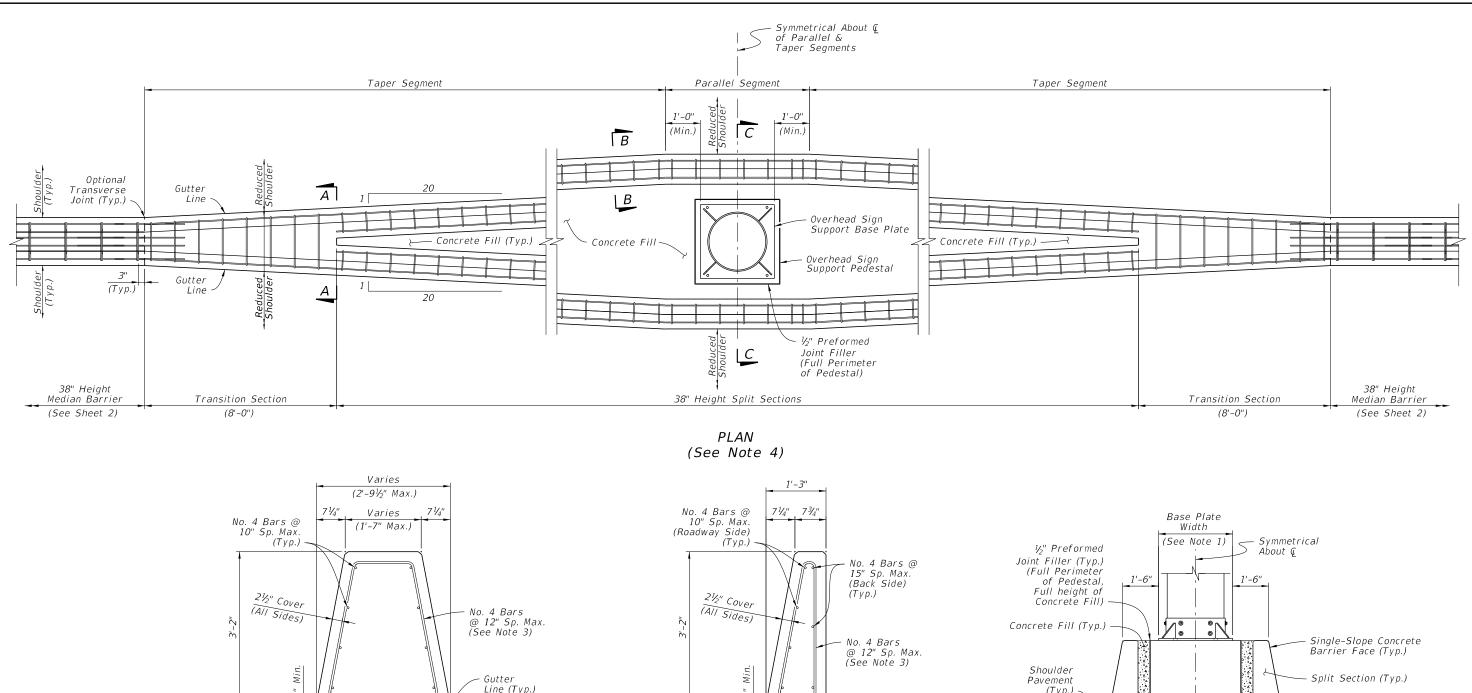
FY 2018-19 STANDARD PLANS

CONCRETE BARRIER

INDEX

SHEET





SECTION A-A TRANSITION SECTION (AT BEGIN SPLIT SECTIONS)

SECTION B-B 38" HEIGHT SPLIT SECTION (OPPOSITE SIDE SIMILAR BY OPPOSITE HAND)

(Typ.)Gutter Line (Typ.) Overhead Sign Support Pedestal SECTION C-C

NOTES:

- 1. OVERHEAD SIGN SUPPORT: The overhead sign support shown is an example only; see the Plans for the actual shape dimensions and requirements. The overall length and width of the split barrier system is governed by the project-specific overhead sign support dimensions, as defined in the Plans.
- 2. MULTIPLE SIGN SUPPORTS: The parallel segment may be lengthened to accommodate multiple sign supports, with the approach and trailing tapers located 1 foot, measured longitudinally, upstream and downstream from the first and last s support bases, respectively.
- 3. STIRRUP BARS: For the vertical and transverse reinforcement requirements shown in Sections A-A and B-B, bar bending diagrams are not provided due to varying section dimensions. Use any combination of spliced reinforcing steel to position the reinforcement with the same cover, spacing, continuity, and equivalent strength shown herein, as approved by the Engineer
- 4. PLAN VIEW: Only outermost longitudinal reinforcing is shown for clarity. For all

MEDIAN BARRIER - 38" HEIGHT SPLIT SECTION

HANCOCK BRIDGE PARKWAY OVER HANCOCK CREEK - BRIDGE #124019

FY 2018-19

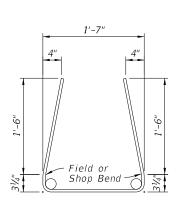
FOR STAND-ALONE SIGN SUPPORT SHIELDING SHEET B1-10 (4 OF 5)

REVISION 11/01/17

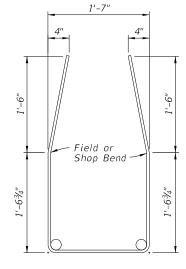
INDEX *521-001* SHEET

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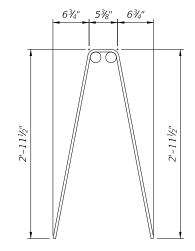
BILL OF REINFORCING STEEL								
SIZE	LENGTH							
4	3'-8"							
5	3'-0"							
4	5'-1"							
4	7'-8"							
5	9'-7"							
5	5'-9"							
4	6'-4"							
5	6'-3"							
	SIZE 4 5 4 4 5 4 4 4 5 5 4							



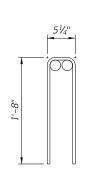
BARS 4U1



BAR 4U2



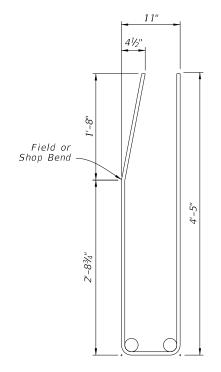
BAR 4V1



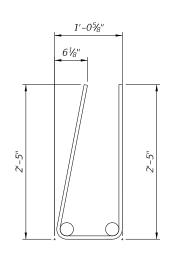
BAR 4C1

NOTES:

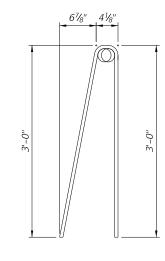
- 1. Work with the Standard Bar Bending Details per Index 415-001.
- 2. All bar dimensions in the bending diagrams



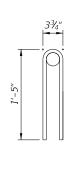
BAR 5U3



BAR 5U4



BAR 5V2



BAR 5C2

HANCOCK BRIDGE PARKWAY OVER HANCOCK CREEK - BRIDGE #124019

SHEET B1-11 (5 OF 5)

REINFORCING BAR BENDING DIAGRAMS

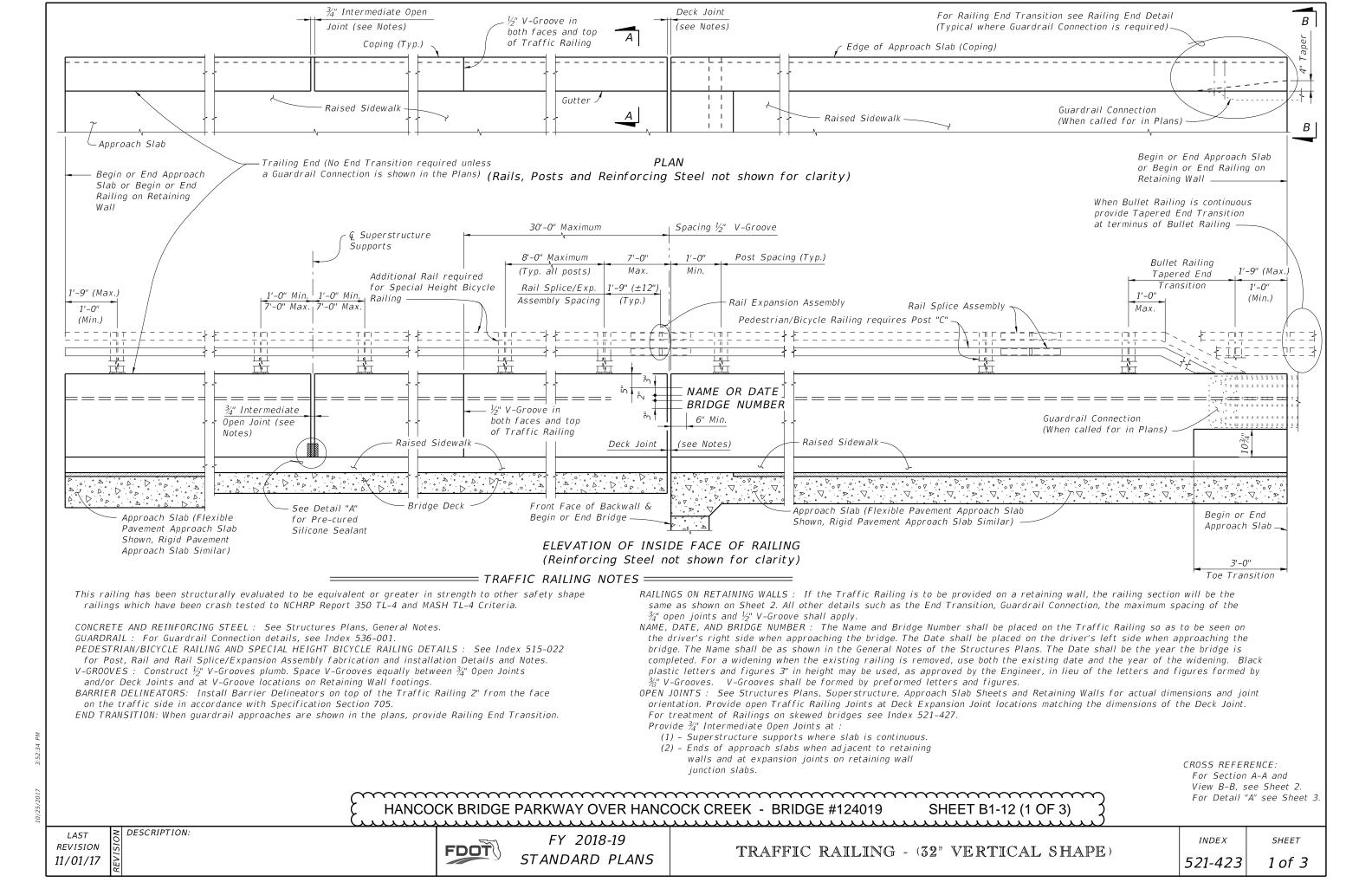
LAST REVISION 11/01/17

FY 2018-19 STANDARD PLANS

CONCRETE BARRIER

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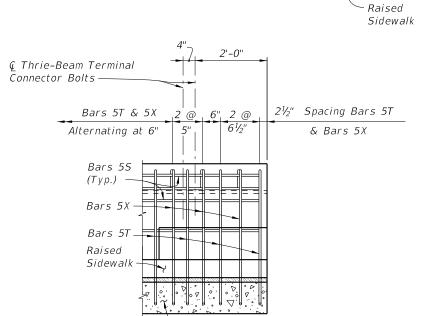
SHEET 22 of 22





NOTES:

- 1. Begin placing Railing Bars 5T and 5X on Approach Slab at the railing end and proceed toward Begin or End Bridge to avoid conflict with guardrail bolt holes. If required, adjustments to the bar spacing for Bars 5T and 5X shall be made immediately adjacent to Begin or End Bridge. Cut, shift and rotate Bars 5T and 5X as required to maintain cover in Railing End Transition.
- 2. Omit Railing End Transition and Guardrail if Concrete Traffic Railing is used beyond the Approach Slab or Retaining Wall. See Structures Plans, Plan and Elevation Sheet and Roadway Plans. If Taper and Railing End Transition is omitted, extend Typical Section to end of the Approach Slab or limiting station on Retaining Wall, and space Bars 5T and 5X at 1'-0" (Typ.)



VIEW B-B APPROACH SLAB END VIEW OF TRAFFIC RAILING

1'-1"

- Bars 5X @ 1'-0" sp. (Max.) (Alternate with

Bars 5T) (See Note 1)

Hook Top Steel in

Edge of Approach

Raised Sidewalk

Slab (Coping)

 ← Thrie-Beam Terminal
 ← Thrie-Beam Ter

Connector & Guardrail

Bolts

Bars 5S (Field Bend as

Bars 5T @ 1'-0" sp. (Max.)

(Alternate with Bars 5X)

Required) (Typ.)

(See Note 1)

Additional Rail required for

Railing)

Bicycle

Raili

Special Height Bicycle Railing

Pedestrian/Bicycle Railing

2" Cover (Top)

3" Taper

.02 Ft/Ft

CROSS REFERENCE: For location of Section A-A and View B-B

Bars 5S

1'-0"

see Sheet 1.

NOTE: For Bullet Railing Details, see Index 515-022.

Const Joint

HANCOCK BRIDGE PARKWAY OVER HANCOCK CREEK - BRIDGE #124019 SHEET B1-13 (2 OF 3)

RAILING END DETAIL (Guardrail Not Shown For Clarity)

Approach Slab

REVISION 11/01/17

DESCRIPTION:

FDOT

FY 2018-19 STANDARD PLANS

Approach

Slab

INDEX

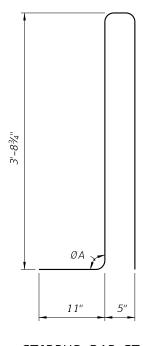
SHEET

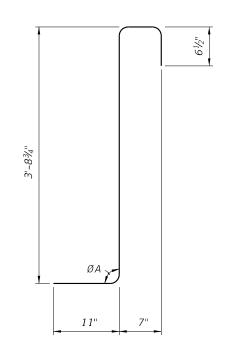
521-423 2 of 3

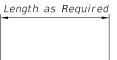
CONVENTIONAL REINFORCING STEEL BENDING DIAGRAMS

BILL OF REINFORCING STEEL									
MARK	SIZE	LENGTH							
S	5	As Reqd.							
Т	5	9'-0"							
Х	5	5'-10"							

ROADWAY	ØA								
CROSS-SLOPE	LOW GUTTER	HIGH GUTTER							
0% to 2%	90°	90°							
2% to 6%	87°	93°							
6% to 10%	84°	96°							







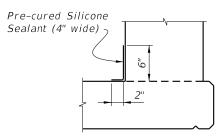
BAR 5S

STIRRUP BAR 5T

STIRRUP BAR 5X

REINFORCING STEEL NOTES:

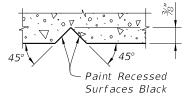
- 1. All bar dimensions in the bending diagrams are out to out.
- 2. The 3'-8¾" vertical dimensions shown for Bars 5T and 5X are based on a bridge deck with a 6" thick x 6' wide raised sidewalk at low side of deck, 2% deck cross slope and a counter 2% raised sidewalk cross slope. If the raised sidewalk thickness, width or cross slopes vary from the above amounts, adjust these vertical dimensions accordingly to achieve a 6" minimum embedment into
- 3. The reinforcement for the railing on a Retaining Wall shall be the same as detailed with $\emptyset A=90^\circ.$
- 4. All reinforcing steel at the open joints shall have a 2" minimum cover.
- 5. Bars 5S may be continuous or spliced at the construction joints. Bar splices for Bars 5S shall be a minimum of 2'-2".
- 6. The Contractor may utilize Welded Wire Reinforcement (WWR) when approved by the Engineer. WWR must consist of Deformed wire meeting the requirements of Specification Section 931.



DETAIL "A" - SECTION AT INTERMEDIATE OPEN JOINT

INTERMEDIATE JOINT SEAL NOTES:

- 1. At Intermediate Open Joints, seal the lower 6" portion of the open joint with Pre-cured Silicone Sealant in accordance with Specification Section 932.
- 2. Apply sealant prior to any Class V finish coating and remove all curing compound and loose material from the surface prior to application of bonding agent.
- 3. The cost of the Pre-cured Silicone Sealant shall be included in the Contract Unit Price for the Traffic Railing.



SECTION THRU RECESSED "V" GROOVE TO FORM INSCRIBED LETTERS AND FIGURES

ESTIMATED T QUA	TRAFFIC I NTITIES	RAILING				
ITEM	UNIT	QUANTITY				
Concrete	CY/LF	0.095				
Reinforcing Steel	LB/LF	25.90				

(The above quantities are based on a 6" thick x 6' wide raised sidewalk at low side of deck, 2% deck cross slope and counter 2% sidewalk cross slope.)

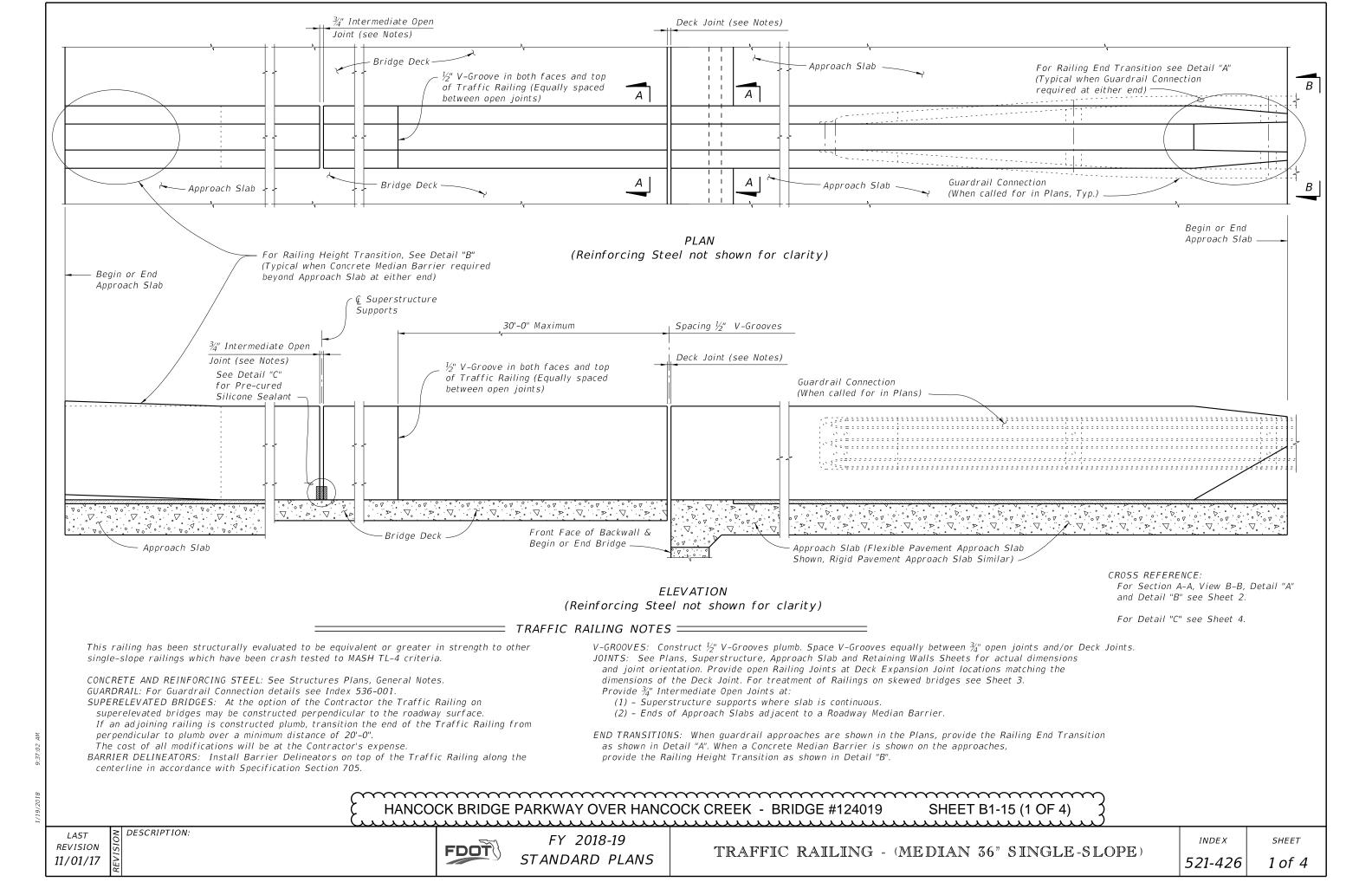
HANCOCK BRIDGE PARKWAY OVER HANCOCK CREEK - BRIDGE #124019

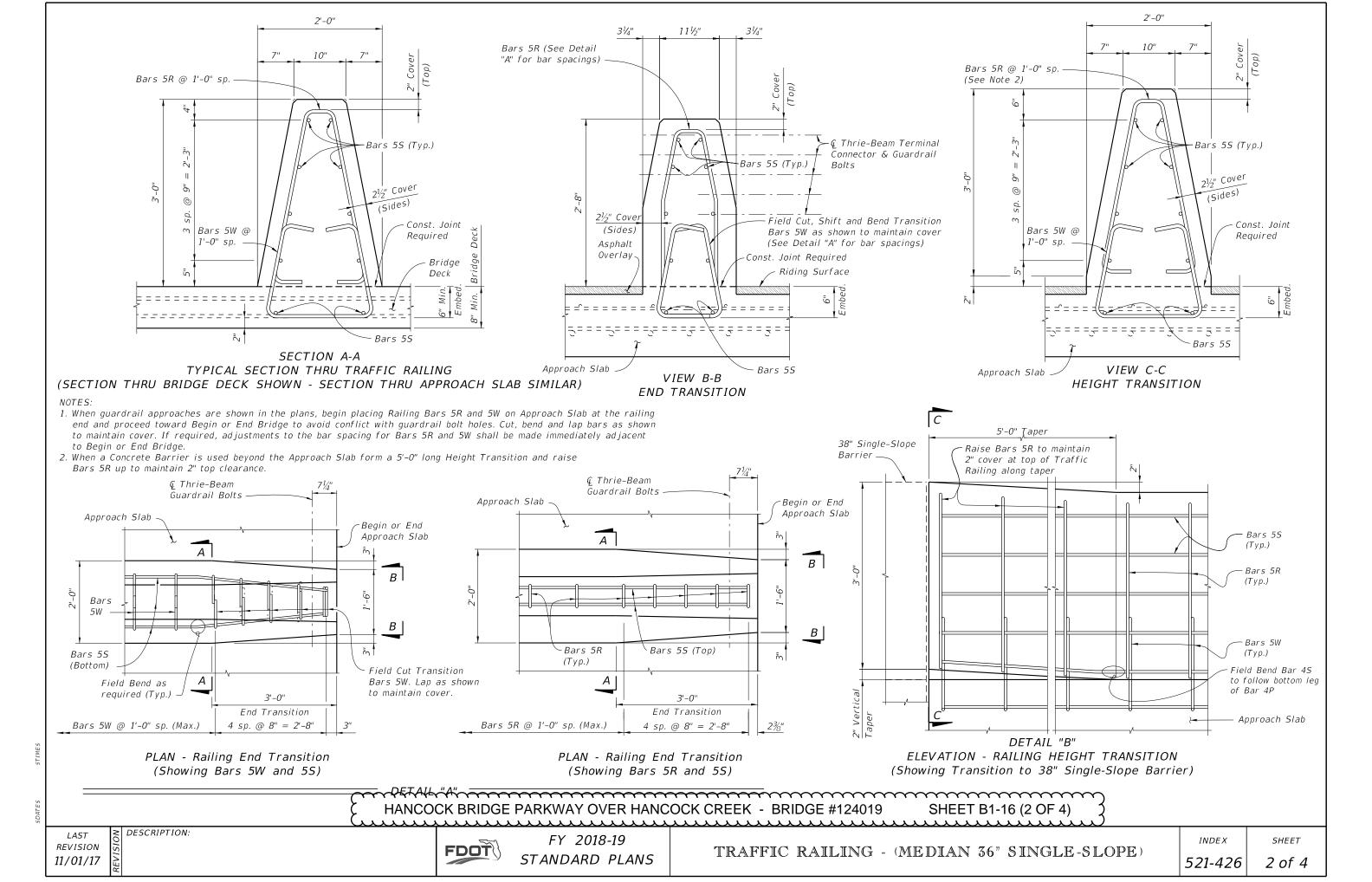
SHEET B1-14 (3 OF 3)

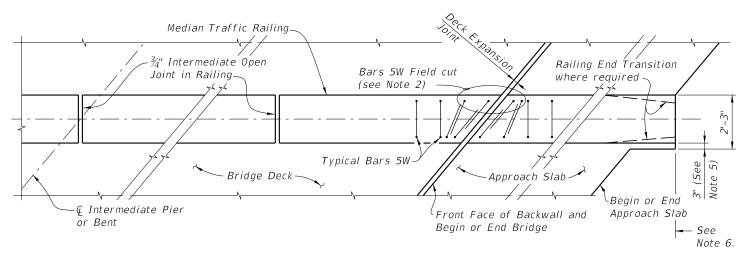
REVISION 07/01/13

DESCRIPTION:







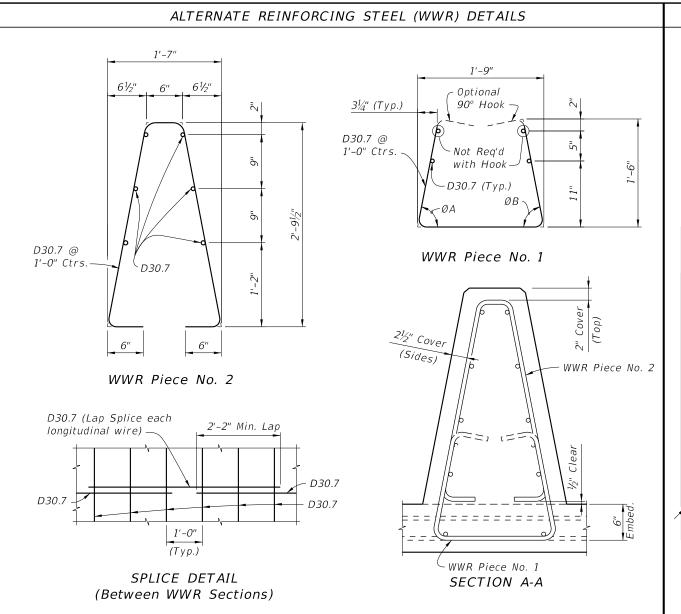


PARTIAL PLAN VIEW OF BRIDGE DECK AND APPROACH SLAB WITH MEDIAN TRAFFIC RAILING

NOTES:

- 1) Median Traffic Railing reinforcement vertical Bars 5W may be shifted up to 1" (Max.) and rotated up to 10 degrees as required to allow proper placement.
- 2) Transition Stirrup Bars 5W shall be used as required at railing ends adjacent to expansion joints to facilitate placement of bars in acute corners. Place Transition Bars 5W in a fan pattern to maintain spacing. Rotate bars in 10° (Max.) increments as required.
- 3) Median Traffic Railing ends at deck expansion joints shall follow the deck joint with allowance for joint movement. See Structures Plans, Superstructure and Approach Slab Sheets for Details.
- 4) ¾" Intermediate Open Joints and V-Grooves in railing shall be placed perpendicular or radial to the © of the median railing. See Structures Plans, Superstructure and Approach Slab Sheets for locations.
- 5) At begin or end approach slab extend slab at the median railing ends 3" (open side) as shown to provide a base for casting of the railing.
- 6) Work this Sheet with Approach Slab Indexes as applicable.
- 7) Deck Expansion Joint at begin or end bridge shown. Deck Expansion Joints at & Pier or Intermediate Bents are similar.
- 8) Partial Plan Views shown are intended as guides only. See Structures Plans, Superstructure and Approach Slab Sheets for skew angles, joint orientation, dimensions and details.
- 9) If Welded Wire Reinforcement is used in lieu of conventional reinforcement, placement of the WWR vertical elements shall be similar to those shown above. Clipping of horizontal elements to facilitate placement shall be minimized where possible. Where clipping is required, supplement horizontal elements by lap splicing with deformed bars having an equivalent area of steel.

DESCRIPTION: LAST **REVISION** 11/01/16



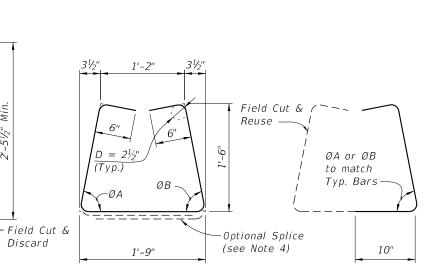
AT CROWN **ROADWAY** ON SLOPE CROSS-SLOPE ØΑ ØВ ØΑ ØВ 79° 79° 79° 79° 0% to 2% >2% to 6% 81° 77° 79° 79° 79° 79° 84° 74° >6% to 10%

ØA and ØB shall be 79° if Contractor elects to place railing perpendicular to the deck, and approach slabs.

BILL OF REINFORCING STEEL			
MARK	SIZE	LENGTH	
R	5	7'-2"	
S	5	As Reqd.	
W	5	5'-10"	

Length as Required

BAR 5S



TRANSITION STIRRUP BAR 5R (5 required per Railing

CONVENTIONAL REINFORCING STEEL BENDING DIAGRAMS

STIRRUP BAR 5W

TRANSITION STIRRUP BAR 5W To Be Field Cut (10 required per Railing End Transition)

6"

- 2. All reinforcing steel at the open joints shall have a 2" minimum cover.

End Transition)

Field Bend as required

to maintain

cover

- 3. Bars 5S may be continuous or spliced at the construction joints. Bar splices for Bars 5S shall be a minimum of 2'-2".
- bar with a 1'-2" lap splice of the bottom legs.

REINFORCING STEEL NOTES:

 $D = 2\frac{1}{2}$ "

STIRRUP BAR 5R

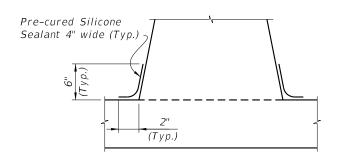
1'-7"

6"

6½"

6½"

- 1. All bar dimensions in the bending diagrams are out to out. 1. At the option of the Contractor deformed Welded Wire Reinforcement (WWR) may be utilized in lieu of all Bars 5R,
- 2. WWR at Railing End Transition shall be field bent inward as required (Pieces 1 & 2) to maintain cover. The bottom
 - 4. At the Contractor's option, Bars 5W may be fabricated as a two piece



DETAIL "C" - SECTION AT INTERMEDIATE OPEN JOINT

5S and 5W. WWR must meet the requirements of Specification Section 931.

3. Place WWR panels so as to minimize the end overhang of longitudinal wires at Railing Ends and Open Joints.

INTERMEDIATE JOINT SEAL NOTES:

- 1. At Intermediate Open Joints, seal the lower 6" portion of the open joint with Pre-cured Silicone Sealant in accordance with Specification Section 932.
- 2. Apply sealant prior to any Class V finish coating and remove all curing compound and loose material from the surface prior to application of bonding agent.
- 3. Include the cost of the Pre-cured Silicone Sealant in the Contract Unit Price for the Traffic Railing.

ESTIMATED TRAFFIC RAILING QUANTITIES				
ITEM	UNIT	QUANTITY		
Concrete	CY/LF	0.157		
Reinforcing Steel	LB/LF	23.99		

(The above quantities are based on a crowned roadway, with a 2% cross slope)

HANCOCK BRIDGE PARKWAY OVER HANCOCK CREEK - BRIDGE #124019

SHEET B1-18 (4 OF 4)

REVISION 01/01/18

FDOT

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TRAFFIC RAILING - (MEDIAN 36" SINGLE-SLOPE)

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SHEET 4 of 4

WELDED WIRE REINFORCEMENT NOTES:

of Piece 1 shall be cut to allow overlap.

Overhangs greater than 6" are not permitted.