



CONTRACT PLANS

COUNTY PROJECT NUMBER 6086960 MANATEE COUNTY

44th AVENUE EAST - BRADEN RIVER SEGMENT (45th STREET EAST TO 44th AVENUE PLAZA EAST)

JUNE 2019

ELWOOD I PUMP STATION SITE PLANS

INDEX OF SITE PLANS

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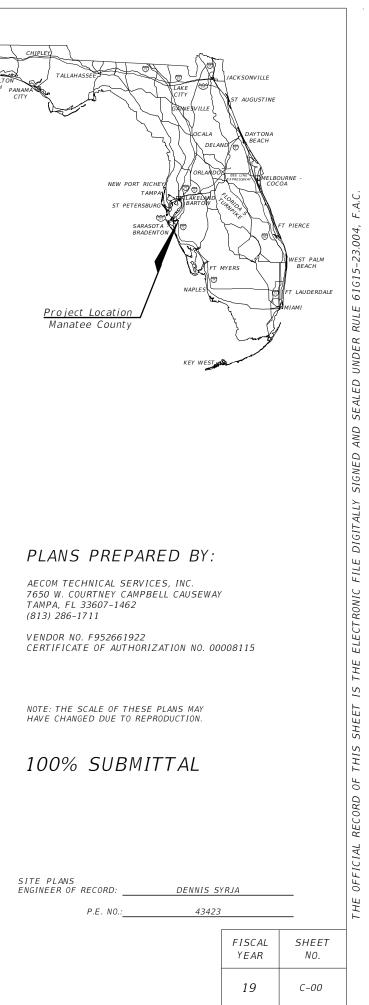
GOVERNING STANDARDS AND SPECIFICATIONS: Florida Department of Transportation, 2016-17 Design Standards and revised Index Drawings as appended herein, and JULY 2017 Standard Specifications for Road and Bridge Construction, as amended by Contract Documents

For Design Standards click on the "Design Standards" link at the following web site:

<u>http://www.dot.state.fl.us/rddesign/</u> For the Standard Specifications for Road and Bridge Construction click on the "Specifications" link at the following web site:

http://www.dot.state.fl.us/specificationsoffice/

MANATEE COUNTY PROJECT MANAGER: ERIC SHROYER



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- THIS DOCUMENT HAS BEEN ELECTRONICALLY SIGNED AND SEALED BY DENNIS W. SYRJA, P.E. USING A DIGITAL SIGNATURE AND DATE.
- PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED. THE SIGNATURE MUST BE VERIFIED ON THE ELECTRONIC DOCUMENTS.
- THE ABOVE NAMED PROFESSIONAL ENGINEER SHALL BE RESPONSIBLE FOR THE FOLLOWING SHEETS IN ACCORDANCE WITH RULE 61G15-23.004, F.A.C.

COVER SHEET SIGNATURE SHEET GENERAL CONSTRUCTION NOTES EXISTING CONDITIONS PLAN DEMOLITION PLAN PROPOSED CONDITIONS SITE PLAN SITE DATA AND LOCATION MAP GRADING AND DRAINAGE PLAN CROSS- SECTIONS
DETAILS QUANTITIES

NO					SCALE	DENNIG W. GYRLA DE	DATE		DESIGN ENGINEER	
					N/A	DENNIS W. SYRJA, P.E. P.E. NO. 43423	6/12/2019		DENNIS W. SYRJA,	
202					GF	AECOM TECHNICAL SERVICES, INC.		Manatee County	P.E.	
AVE					DRAWN BY	- 7650 WEST COURTNEY CAMPBELL CAUSEWAY TAMPA, FL 33607-1462	PROJECT NO.	County	FL. LICENSE NO.	1
E E D					CHECKED BY	(813) 286-1711	6086960	PUBLIC WORKS DEPARTMENT ENGINEERING SERVICES	43423	
34 FL	No.	REVISIONS	DATE	BY	DWS	CERTIFICATE OF AUTHORIZATION: 8115		1022 26th Avenue East, Bradenton, FL 34208		
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GENERAL CONSTRUCTION NOTES

GENERAL CONSTRUCTION NOTES

- 1. THE CONTRACTOR SHALL BECOME FAMILIAR WITH THE PERMIT AND INSPECTION REQUIREMENTS SPECIFIED BY THE VARIOUS GOVERNMENTAL AGENCIES HAVING JURISDICTION OVER THE PROPOSED IMPROVEMENTS, THE ENGINEER, AND THE ARCHITECT. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS PRIOR TO CONSTRUCTION, AND SCHEDULE ANY NECESSARY INSPECTIONS ACCORDING TO AGENCY INSTRUCTIONS. CONTRACTOR IS RESPONSIBLE FOR OBTAINING THE DEWATERING PLAN APPROVED BY THE WATER MANAGEMENT DISTRICT. IF APPLICABLE.
- 2. ALL SPECIFICATIONS AND DOCUMENTS REFERRED TO IN THESE PLANS SHALL BE OF THE CURRENT REVISION.
- 3 ALL WORK PERFORMED SHALL COMPLY WITH THE REGULATIONS AND ORDINANCES OF THE VARIOUS GOVERNMENTAL AGENCIES HAVING JURISDICTION OVER THE WORK. ALL CONSTRUCTION, MATERIALS AND WORKMANSHIP ARE TO BE IN ACCORDANCE WITH MANATEE COUNTY PUBLIC WORKS STANDARDS AND FDOT SPECIFICATIONS. CURRENT EDITIONS.
- 4. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS ON ALL PRE-CAST AND MANUFACTURED ITEMS TO THE OWNER'S ENGINEER FOR APPROVAL. FAILURE TO OBTAIN APPROVAL BEFORE FABRICATION AND/OR INSTALLATION MAY RESULT IN REMOVAL AND REPLACEMENT AT CONTRACTOR'S EXPENSE
- 5. WORK PERFORMED UNDER THIS CONTRACT SHALL INTERFACE SMOOTHLY WITH OTHER WORK BEING PERFORMED BY OTHER CONTRACTORS AND UTILITY COMPANIES. IT WILL BE NECESSARY FOR THE CONTRACTOR TO COORDINATE AND SCHEDULE HIS ACTIVITIES, WHERE NECESSARY, WITH OTHER CONTRACTORS AND UTILITY COMPANIES (INCLUDING, BUT NOT LIMITED TO LIGHTING, POWER, TELEPHONE, CABLE, GAS, ETC...).
- 6. THE WATER, SANITARY SEWER, AND STORM DRAINAGE FACILITIES ARE SUBJECT TO THE REVIEW AND APPROVAL OF APPLICABLE AGENCIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN THE REQUIRED PERMITS TO PERFORM WORK IN THE PUBLIC RIGHT-OF-WAY.
- 7. IF UTILITY CONFLICTS ARE DISCOVERED DURING CONSTRUCTION, IT WILL BE NECESSARY TO EXAMINE, COORDINATE AND ADJUST ACCORDINGLY THE PROPOSED LOCATIONS OF THE VARIOUS COMPONENTS OF THE UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO SUBMIT COORDINATION DRAWINGS SHOWING PIPE SIZES, STRUCTURES, AND ELEVATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SCHEDULING AND COORDINATION OF THE UNDERGROUND WORK ASSOCIATED WITH THIS PROJECT.
- 8. ALL MECHANICAL EQUIPMENT SHALL BE SCREENED FROM VIEW WHENEVER POSSIBLE, IF APPLICABLE.
- 9. CONTRACTOR IS RESPONSIBLE FOR OBTAINING ANY ENVIRONMENTAL PROTECTION AGENCY PERMITTING WHERE REQUIRED. THIS INCLUDES FILING A NPDES NOTICE OF INTENT.
- 10. TOPOGRAPHIC SURVEY PREPARED BY AECOM, BY GARY W. LUTES, L.S. NO. 4367, DATED 08/09 /2018, IS INCLUDED WITHIN THE CONSTRUCTION BID SET. CONTRACTOR SHALL VERIFY THE SURVEY DATUM USED FOR THE DESIGN OF THE PROJECT. THE SAME DATUM SHALL BE USED FOR CONSTRUCTION
- 11. CONSTRUCTION IS TO CONFORM TO CURRENT ZONING REQUIREMENTS THROUGH MANATEE COUNTY, WHERE APPLICABLE.
- 12. THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING ANY DAMAGE TO EXISTING FACILITIES (ONSITE OR OFFSITE), ABOVE OR BELOW GROUND, THAT MAY OCCUR AS A RESULT OF THE WORK PERFORMED BY THE CONTRACTOR CALLED FOR IN THIS CONTRACT.
- 13. ALL UNDERGROUND UTILITIES MUST BE IN PLACE AND TESTED OR INSPECTED PRIOR TO BASE AND PAVEMENT CONSTRUCTION.
- 14. FORTY-EIGHT (48) HOUR NOTICE IS REQUIRED TO THE ENGINEER PRIOR TO SITE INSPECTIONS AND/OR WITNESSING OF ANY STORM, WATER, AND SEWER TESTING.
- 15. CONTRACTOR SHALL SCHEDULE AND COORDINATE A PRE-CONSTRUCTION CONFERENCE WITH AGENCIES HAVING JURISDICTION.
- 16. CONTRUCTION SHALL ADHERE TO APPLICABLE AGENCY CRITERIA, PERMIT CONDITIONS, AS WELL AS SPECIFICATIONS PROVIDED BY OWNER
- 17. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE WITH THE OWNER CONCERNING LIMITS OF CONSTRUCTION. TRANSITIONS, WORK WITHIN OTHER CONTRACTOR WORK ZONES, ETC. WHICH MAY NOT BE SHOWN ON THESE PLANS.
- 18. CONTRACTOR SHALL VERIFY LOCATIONS AND DEPTHS OF ALL EXISTING UNDERGROUND UTILITIES PRIOR TO BEGINNING CONSTRUCTION AND REPORT ANY DISCREPANCIES TO THE OWNER OR ENGINEER IMMEDIATELY FOR RESOLUTION.

SAFETY NOTES

- 1. DURING THE CONSTRUCTION AND MAINTENANCE OF THIS PROJECT, ALL OSHA SAFETY REGULATIONS ARE TO BE ENFORCED. THE CONTRACTOR OR HIS REPRESENTATIVE SHALL BE RESPONSIBLE FOR THE CONTROL AND SAFETY OF THE TRAVELING PUBLIC AND THE SAFETY OF HIS PERSONNEL
- 2. THE CONTRACTOR'S MAINTENANCE OF TRAFFIC PLAN MUST BE SUBMITTED AND APPROVED BY APPLICABLE AGENCIES AND ENGINEER PRIOR TO BEGINNING ANY CONSTRUCTION ACTIVITIES.
- 3 LABOR SAFETY REGULATIONS SHALL CONFORM TO THE PROVISIONS SET FORTH BY OSHA IN THE FEDERAL REGISTER OF THE DEPARTMENT OF TRANSPORTATION AND CONSTRUCTION WORK PER STANDARD 1910.12.
- 4. CONTRACTOR SHALL PROVIDE AND MAINTAIN ITS OWN SAFETY EQUIPMENT IN ACCORDANCE WITH ITS HEALTH & SAFETY PROGRAM AND ALL OTHER APPLICABLE LEGAL AND HEALTH AND SAFETY REQUIREMENTS. THE CONTRACTOR IS ALSO RESPONSIBLE FOR PROVIDING ITS EMPLOYEES AND SUB CONTRACTORS WITH ADEQUATE INFORMATION AND TRAINING TO ENSURE THAT ALL EMPLOYEES AND SUB CONTRACTORS AND SUB CONTRACTOR'S EMPLOYEES COMPLY WITH ALL APPLICABLE REQUIREMENTS. CONTRACTOR SHALL REMAIN IN COMPLIANCE WITH ALL OCCUPATION SAFETY AND HEALTH REGULATIONS AS WELL AS THE ENVIRONMENTAL PROTECTION LAWS. THE FOLLOWING IS NOT TO BE PERCEIVED AS THE ENTIRE SAFETY PROGRAM BUT JUST BASIC REQUIREMENTS.
- ALL EXCAVATIONS BY THE CONTRACTOR SHALL CONFORM TO THE REQUIREMENTS OF THE DEPARTMENT OF LABOR'S OCCUPATIONAL 5 SAFETY AND HEALTH ADMINISTRATION RULES AND REGULATIONS AND FLORIDA TRENCH SAFETY ACT. PARTICULAR ATTENTION MUST BE PAID TO THE CONSTRUCTION STANDARDS FOR EXCAVATIONS, 29 CFR PART 1926, SUBPART P.
- 6. THE MINIMUM STANDARDS AS SET FORTH IN THE CURRENT EDITION OF "THE STATE OF FLORIDA, MANUAL ON TRAFFIC CONTROL AND SAFE PRACTICES FOR STREET AND HIGHWAY CONSTRUCTION, MAINTENANCE AND UTILITY OPERATIONS" SHALL BE FOLLOWED IN THE DESIGN APPLICATION, INSTALLATION, MAINTENANCE AND REMOVAL OF ALL TRAFFIC CONTROL DEVICES, WARNING DEVICES AND BARRIERS NECESSARY TO PROTECT THE PUBLIC AND WORKMEN FROM HAZARDS WITHIN THE PROJECT LIMITS.
- 7. ALL TRAFFIC CONTROL MARKINGS AND DEVICES SHALL CONFORM TO THE PROVISIONS SET FORTH IN THE FDOT STANDARD PLANS FOR ROAD AND BRIDGE CONSTRUCTION AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES PREPARED BY THE U.S. DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION, LATEST EDITIONS.
- 8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND PERMITTING A MAINTENANCE OF TRAFFIC (MOT) PLAN AND A DEDICATED CREW FOR THE PROPER INSTALLATION, MAINTENANCE, AND REMOVAL OF THE TRAFFIC CONTROL DEVICES (I.E. BARRICADES, SIGNS, ARROW BOARDS, ETC.). THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT THEIR WORK FORCE HAS THE PROPER CERTIFICATIONS PER FLORIDA STATE POLICY REQUIREMENTS, LATEST EDITION(S) (I.E. - FLAGGER, INTERMEDIATE, ADVANCED, ETC.). THIS APPLIES TO ALL PERSONNEL RESPONSIBLE FOR IMPLEMENTATION, OPERATION, ENFORCEMENT, AND INSPECTION OF WORK ZONE RELATED TRANSPORTATION MANAGEMENT AND TEMPORARY TRAFFIC CONTROL. IT IS RECOMMENDED THAT THIS CREW SHALL CONSIST OF AT LEAST TWO MEMBERS OF THE CONTRACTOR'S WORK FORCE WHOSE SOLE RESPONSIBILITY WILL BE THE MAINTENANCE OF TRAFFIC CONTROL. THE CONTRACTOR SHALL FURNISH A WORK VEHICLE AS NECESSARY TO AID IN MAINTAINING THE TRAFFIC CONTROL DEVICES TO ENSURE THAT THEY ARE PROPERLY MAINTAINED AT ALL TIMES DURING WORKING HOURS. THE CONTRACTOR SHALL ENSURE THAT THE MOT PLAN ADHERES TO FDOT STANDARD PLANS INDICES AND SHALL BE RESPONSIBLE FOR THE IMPLEMENTATION AND INSPECTION / MAINTENANCE OF THE MOT PLAN. CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY CHANGES TO THE PLAN IN THE FIELD.
- IT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO COMPLY AND ENFORCE ALL APPLICABLE SAFETY REGULATIONS. THE 9 ABOVE INFORMATION HAS BEEN PROVIDED FOR THE CONTRACTOR'S INFORMATION ONLY AND DOES NOT IMPLY THAT THE OWNER OR ENGINEER WILL INSPECT AND/OR ENFORCE SAFETY REGULATIONS.

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			SCALE N/A DESIGNED BY GF	DENNIS W. SYRJA, P.E. P.E. NO. 43423 AECOM TECHNICAL SERVICES, INC. JEED WEST CONTINEY CAMPBELL CALLEWAY	DATE 6/4/2019	Manatee	DESIGN ENGINEER DENNIS W. SYRJA, P.E.	GENERAL CONSTRUCTION NOTES	SHEET NO.
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GENERAL CONSTRUCTION NOTES

DEMOLITION AND PHASING NOTES

- PHASING AND DEMO LIMITS SHOWN WITHIN THE CONSTRUCTION DOCUMENTS DEPICT THE ENGINEER'S BEST REPRESENTATION OF THE NECESSARY PHASE LIMITS FOR THE PROJECT. CONTRACTOR IS RESPONSIBLE FOR EVALUATING THE CONSTRUCTABILITY OF THESE LIMITS, MODIFYING THEM AS REQUIRED FOR CONSTRUCTION MEANS, AND FIELD VERIFYING ALL EXISTING ABOVE AND BELOW GROUND CONDITIONS. THE CONTRACTOR SHALL COORDINATE ALL WORK WITH THE MANATEE COUNTY PROJECT MANAGER.
- 2. PRIOR TO CONSTRUCTION AND MOBILIZATION, CONTRACTOR SHALL DEVELOP DETAILED SEQUENCING PLANS OF CONSTRUCTION ACTIVITIES FOR DEMOLITION AND PHASING THAT DEMONSTRATES COMPLIANCE TO KEEP THE EXISTING SITE FULLY OPERATIONAL THROUGHOUT THE DURATION OF CONSTRUCTION. THESE PLANS SHALL BE COORDINATED WITH THE MANATEE COUNTY PROJECT MANAGER. ONSITE MANATEE COUNTY UTILITIES DEPARTMENT STAFF, AND DESIGN ENGINEER (AECOM) TO ENSURE CONSTRUCTION CONFLICTS WILL NOT DISRUPT MANATEE COUNTY OPERATIONS. THESE PLANS SHALL INCLUDE, BUT ARE NOT LIMITED TO, THE FOLLOWING:
- IDENTIFICATION OF DEMO LIMITS, TEMPORARY CONTRACTOR WORK SPACE, STAGING AND STOCKPILE AREAS, HAULING ROUTES, 2.1. WASTE STORAGE AND DISPOSAL METHODS, SECURITY AND SAFETY MEASURES, ACCESSIBLE ROUTES FOR MANATEE COUNTY PERSONNEL THROUGH WORK ZONES, MAINTENANCE OF TRAFFIC (MOT, IF NECESSARY), ETC.
- IDENTIFICATION OF CONSTRUCTION PHASES AND SUB-PHASES, IF REQUIRED 2.2.
- 2.3. SEQUENCE OF ITEMS TO BE DEMOLISHED PER PHASE/SUB-PHASE
- 2.4 LOCATION AND DETAILS FOR NECESSARY TEMPORARY MEASURES (EXAMPLES - TEMPORARY PARKING AREAS, GRADING AND STABILZATION MEASURES, EROSION CONTROL, TEMPORARY RUNOFF DIVERSION MEASURES, ETC.)
- SEQUENCE OF ONSITE UTILITY DEMOLITION AND REMOVAL/ABANDONMENT TO ENSURE SERVICE IS MAINTAINED TO THE EXISTING 2.5. MANATEE COUNTY FACILITY DURING CONSTRUCTION
- ANY AND ALL UTILITY SERVICE SHUT DOWNS SHALL BE FULLY COORDINATED WITH MANATEE COUNTY AS TO NOT DISRUPT 2.5.1 FACILITY OPERATIONS. REFER TO UTILITY CONSTRUCTION PHASING PLANS U-06 TO U-08 AND GRINDER LIFT STATION PLANS ULS-1 TO ULS-11.
- 3. THE CONTRACTOR IS RESPONSIBLE FOR THE FINAL SITING, GRADING, PERMITTING, INSTALLATION AND REMOVAL OF THE TEMPORARY SITE FEATURES NECESSARY FOR THE PHASED CONSTRUCTION. THIS INCLUDES SITE ACCESS, SAFETY, STORMWATER, AND EROSION CONTROL MEASURES TO MAINTAIN THE EXISTING SITE FUNCTION DURING PHASED CONSTRUCTION.
- CONTRACTOR IS RESPONSIBLE FOR OBTAINING ANY NECESSARY CONSTRUCTION PERMITS FOR THE PHASED CONSTRUCTION ACTIVITIES 4 FROM THE AGENCY HAVING JURISDICTION (AHJ).
- EXISTING UNDERGROUND UTILITIES AND ASSOCIATED APPURTENANCES ARE DEPICTED PER INFORMATION PROVIDED BY THE SURVEY 5 (TOPOGRAPHIC SURVEY PREPARED BY AECOM, BY GARY W. LUTES, L.S. NO. 4367, DATED 08/09/2018). THIS INFORMATION REPRESENTS THE BEST INFORMATION AVAILABLE AT THE TIME OF PLAN PREPARATION AND MAY NOT INCLUDE EVERY EXISTING CONDITION. THE CONTRACTOR SHALL VERIFY EXISTING CONDITIONS IN THE FIELD AND TAKE THE NECESSARY MEASURES TO PROTECT THE UTILITIES THAT SHALL REMAIN ACTIVE.
- ALL EXISTING FACILITIES AND UTILITIES IN AND AROUND THE CONSTRUCTION LIMITS THAT ARE DESIGNATED 'TO REMAIN' SHALL BE MAINTAINED TO THEIR EXISTING STATE WHEN THE CONTRACTOR BEGINS WORK. ANY DAMAGE TO THE INFRASTRUCTURE OR UTILITIES ONCE CONSTRUCTION BEGINS SHALL BE THE CONTRACTOR'S RESPONSIBILITY AND REPAIRED IMMEDIATELY TO THE SATISFACTION OF THE OWNER AND ENGINEER. ALL COSTS OF REPAIR AND RESTORATION SHALL BE BORNE BY THE CONTRACTOR.

PROJECT SPECIFIC NOTES

- THE CONTRACTOR IS TO COORDINATE HIS WORK AND SITE ACCESS WITH THE OTHER ENTITIES THAT MAY BE WORKING ON SITE. ANY CONFLICTS ON COORDINATION ISSUES SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER AND/OR ENGINEER FOR MUTUAL RESOLUTION
- 2. PORTIONS OF THIS SITE HAVE BEEN DEMOLISHED AND/OR MAY BE DIFFERENT THAN DEPICTED IN THESE DRAWINGS. PRE-BID SITE VISITS ARE REQUIRED BY ALL BIDDERS TO FAMILIARIZE THEM WITH SITE CONDITIONS. ALL ADDITIONAL DEMOLITION REQUIRED SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
- FORTY-EIGHT (48) HOUR NOTICE IS REQUIRED BY THE ENGINEER PRIOR TO SITE INSPECTIONS AND/OR WITNESSING OF WATER AND/OR 3. SEWER TESTING.
- 4. ALL EXISTING TREES TO REMAIN SHALL BE BARRICADE PROTECTED FROM DAMAGE BY EQUIPMENT AND/OR PERSONNEL.
- THE PROPOSED PROJECT WILL NOT ADVERSELY AFFECT SIGNIFICANT HISTORICAL OR ARCHEOLOGICAL RESOURCES UNDER THE PROVISIONS OF SECTION 267.061, F.S. IF EVIDENCE OF THE EXISTENCE OF HISTORIC OR ARCHEOLOGICAL RESOURCES IS DISCOVERED OR OBSERVED AT DEVELOPMENT SITES OR DURING DEVELOPMENT ACTIVITIES AFTER FINAL APPROVAL, ALL WORK SHALL CEASE IN THE AREA OF EFFECT AS DETERMINED BY THE DIRECTOR. THE CONTRACTOR SHALL NOTIFY THE ENGINEER AND OWNER IMMEDIATELY, AND THE DEPARTMENT OF HISTORICAL RESOURCES WITHIN TWO WORKING DAYS. EXAMPLES OF EVIDENCE OF HISTORIC RESOURCES INCLUDE WHOLE OR FRAGMENTARY STONE TOOLS, SHELL TOOLS, ABORIGINAL OR HISTORIC POTTERY, HISTORIC GLASS, HISTORIC BOTTLES, BONE TOOLS, HISTORIC BUILDING FOUNDATIONS, SHELL MOUNDS, SHELL MIDDENS, OR SAND MOUNDS. THE DIRECTOR SHALL ASSESS THE SIGNIFICANCE OF THE FINDS AND MITIGATE ANY ADVERSE EFFECTS AS SOON AS POSSIBLE. BUT NO LATER THAN THREE WORKING DAYS OF NOTIFICATION.

- THIS PROJECT IS INTENDED TO SUPPORT THE "44TH AVE E BRADEN RIVER SEGMENT (45TH ST E TO 44TH AVE PLAZA E) ROADWAY 6. PROJECT BY MANATEE COUNTY (MANATEE COUNTY PROJECT NO. 6086960)
- REFER TO SHEETS 4, 7-8, 14-29, 39, 60, 96-99, 138, & 155-162 OF THE "44TH AVE E BRADEN RIVER SEGMENT (45TH ST E TO 44TH AVE PLAZA E) (MANATEE COUNTY PROJECT NO. 6086960)" PLANS FOR ADDITIONAL INFORMATION, INCLUDING THE EXISTING AND PROPOSED STRUCTURES AND STORMWATER COLLECTION SYSTEM WHICH WILL RECEIVE STORMWATER RUNOFE FROM THIS PROJECT.
- EXISTING CONDITIONS INFORMATION IS PROVIDED BY THE TOPOGRAPHIC SURVEY BY AECOM, DATED 08/09/2018, BY GARY W. LUTES, L.S. 8. NO. 4367. EXISTING UTILITIES AND / OR OTHER SITE FEATURES SHOWN ON THESE PLANS ARE APPROXIMATE. CONTRACTOR TO FIELD-VERIFY SITE CONDITIONS BEFORE CONSTRUCTION BEGINS.
- HORIZONTAL DATUM: NAD83 (FL-W) 9. VERTICAL DATUM: NAVD88
- 10. LEGAL DESCRIPTION: THE SOUTH HALF OF LOT 56. BLOCK 7 OF ELWOOD PARK SUBDIVISION AS RECORDED IN PLAT BOOK 2. PAGE 76. PUBLIC RECORDS OF MANATEE COUNTY, FLORIDA, BEING IN SECTION 4, TOWNSHIP 35 SOUTH, RANGE 18 EAST.

TESTING SCHEDULE

ITEM	TEST	TEST FREQUENCY
PIPE TRENCH BACK FILL	OPTIMUM MOISTURE/MAXIMUM DENSITY	PER SOIL TYPE
OVER PIPELINES AND AROUND STRUCTURES FROM R.O.W. LINE TO R.O.W. LINE AND IN STRUCTURAL AREAS	98% OF MAXIMUM DENSITY AS DETERMINED BY AASHTO T180-57 (ASTM D1557-70)	(SEE NOTES 1 AND 2 BELOW)
STABILIZED SUB GRADE	OPTIMUM MOISTURE/MAXIMUM DENSITY	PER MATERIAL TYPE
	MINIMUM 40 LBR	PER MATERIAL TYPE
	98% OF MAXIMUM DENSITY AS DETERMINED BY AASHTO T180-57 (ASTM D1557-70)	(SEE NOTES 1 & 3 BELOW)
BASE	OPTIMUM MOISTURE/MAXIMUM DENSITY	PER SOURCE
(OTHER THAN SOIL CEMENT)	MINIMUM 100 LBR	PER SOURCE
	98% OF MAXIMUM DENSITY AS DETERMINED BY AASHTO T180-57 (ASTM D1557-70) - NO TOLERANCE	EACH LIFT (SEE NOTE 3 BELOW)
	GRADATION, ATTERBURG LIMITS	PER SOURCE
BASE	SOIL CEMENT SHALL BE PLANT MIX OR PUG MILL MIX - NO MIX IN PLACE	
(SOIL CEMENT)	95% MAXIMUM DRY DENSITY AS DETERMINED BY AASHTO T-134	1 PER 300 LF (MIN 1 PER STREET)
	MINIMUM COMPRESSIVE STRENGTH AT 7 DAYS	3 SAMPLES COMPACTED DAILY (300 PSI)
	THICKNESS TEST CORES	300 FT. INTERVALSS (MIN 1 PER STREET)
CONCRETE (SEE NOTE 4 BELOW)	SLUMP TEST	ONE PER SET OF CYLINDERS
(PER AASHTO & ASTM SPECS)	MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS	3,500 PSI
	COMPRESSIVE STRENGTH CYLINDERS	ONE SET OF THREE (3) CYLINDERS FOR 100 CUBIC YARDS OR FRACTION THEREOF
	AIR CONTENT	ONE PER SET OF CYLINDERS
ASPHALTIC CONCRETE (PER FDOT SECTION 320)	AGGREGATE ANALYSIS DESIGN MIX BITUMEN CONTENT	ONE PER DESIGN ONE PER TYPE ONE PER DAY
	GRADATION STABILITY FLOW	ONE PER DAY
	PROPERTIES OF IN-PLACE MATERIALS (MARSHALL) THICKNESS 95% OF LAB DENSITY	ONE PER DAY (SEE NOTE 3 BELOW) (SEE NOTE 3 BELOW)

TESTS SHALL BE LOCATED NO MORE THAN 500 FEET APART. TESTS SHALL BE PERFORMED 1. TESTS SHALL BE LOCATED NO MORE THAN SOU FELL AFART. TESTS SHALL BE PERFORMED ON EACH LIFT, EXCEPT THAT TESTS SHALL NOT BE FURTHER AFART THAN ONE (1) FOOT VERTICALLY. FIELD DENSITIES SHALL BE TAKEN OVER ALL ROAD CROSSINGS. FIELD DENSITIES FOR SANITARY LINES SHALL BE STAGENED TO INCLUDE RESULTS OVER SERVICE LATERALS. THERE SHALL BE A MINIMUM OF ONE (1) TEST SERIES FOR EACH 6 INCHES OF LIFT OVER PIFELINE BETWEEN MANHOLES. TESTS AROUND STRUCTURES SHALL BE SPIRALED IN 6 INCH LIFTS. TESTS AROUND BOX CULVERTS SHALL DONE ON BOTH SIDES EVERY LIFT.

2. FOR FLEXIBLE PIPE (CORRUGATED STEEL OR ALUMINUM), 95% OF MAXIMUM DENSITY (AASHTO-T99) PER FDOT SUPPLEMENTAL SPECIFICATIONS SUB ARTICLE 125-8.3.2 AS MODIFIED.

3. TESTS SHALL BE LOCATED NO MORE THAN 300 FEET APART. THERE SHALL BE NO LESS THAN THREE (3) TESTS PER ROAD.

4. APPLIES TO SITE CONCRETE SUCH AS CURBS, GUTTERS, FLUMES, DRIVEWAYS AND SIDEWALKS

CONTRACTOR SHALL CALL "SUNSHINE STATE ONE CALL" 1-800-432-4770 A MINIMUM OF 2-DAYS AND

A MAXIMUM OF 5-DAYS PRIOR TO START OF CONSTRUCTION.

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5. ENGINEER OF RECORD SHALL RECEIVE MATERIAL TESTING REPORTS NO LATER THAN ONE (1) WEEK FROM THE TEST DATE. 6. TESTING FOR RCP SHALL BEGIN AT THE SPRING LINE OF THE PIPE.

7. EMBANKMENT, FILL, AND BACKFILL MATERIAL SHALL BE PLACED AND COMPACTED IN LIFTS NOT TO EXCEED TWELVE (12) INCHES VERTICALLY. EACH COMPACTED LIFT SHALL PASS THE AFOREMENTIONED TESTING CRITERIA BEFORE PROCEEDING TO THE NEXT VERTICAL LIFT

8. DENSITY TESTS SHALL BE PERFORMED AT A MINIMUM FREQUENCY OF ONE TEST PER EVERY 250 SQUARE YARDS OF FILL MATERIAL BEING PLACED, PER VERTICAL LIFT.

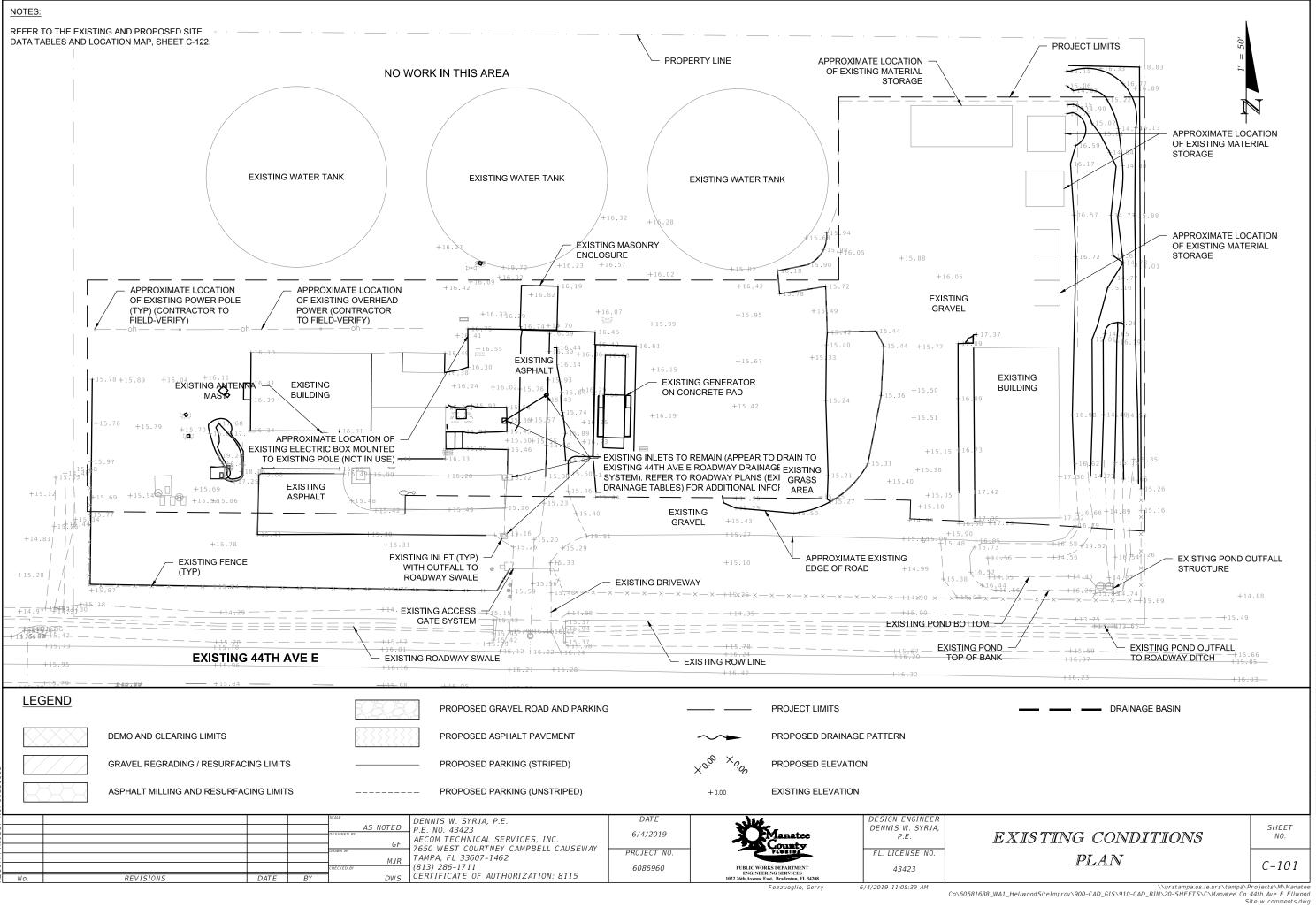
IF SUCCESSIVE VERTICAL LIFTS ARE PLACED, THE DENSITY TESTS SHALL BE STAGGERED SO AS TO NOT BE REPEATED IN THE SAME LOCATION.

GENERAL CONSTRUCTION NOTES

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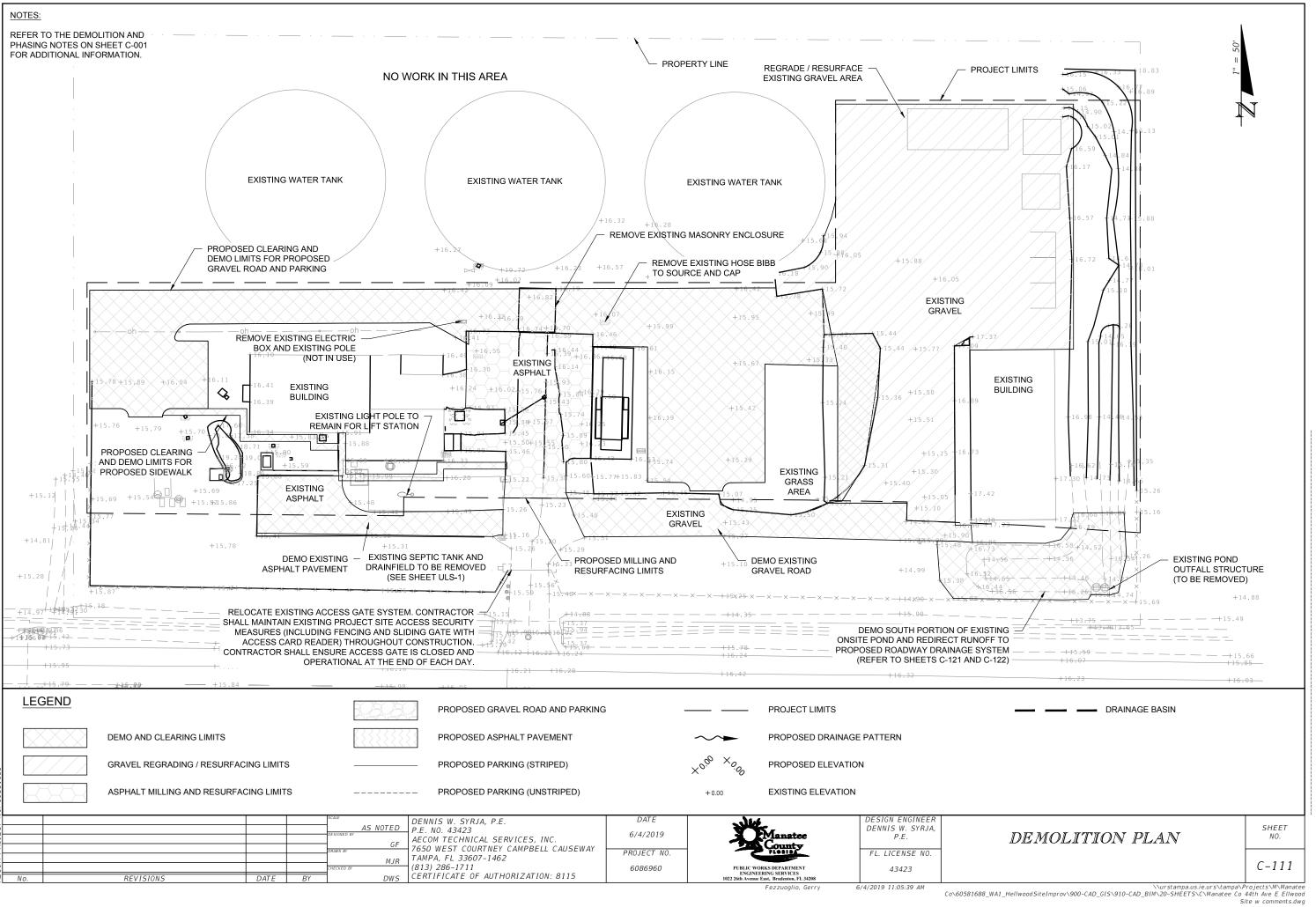
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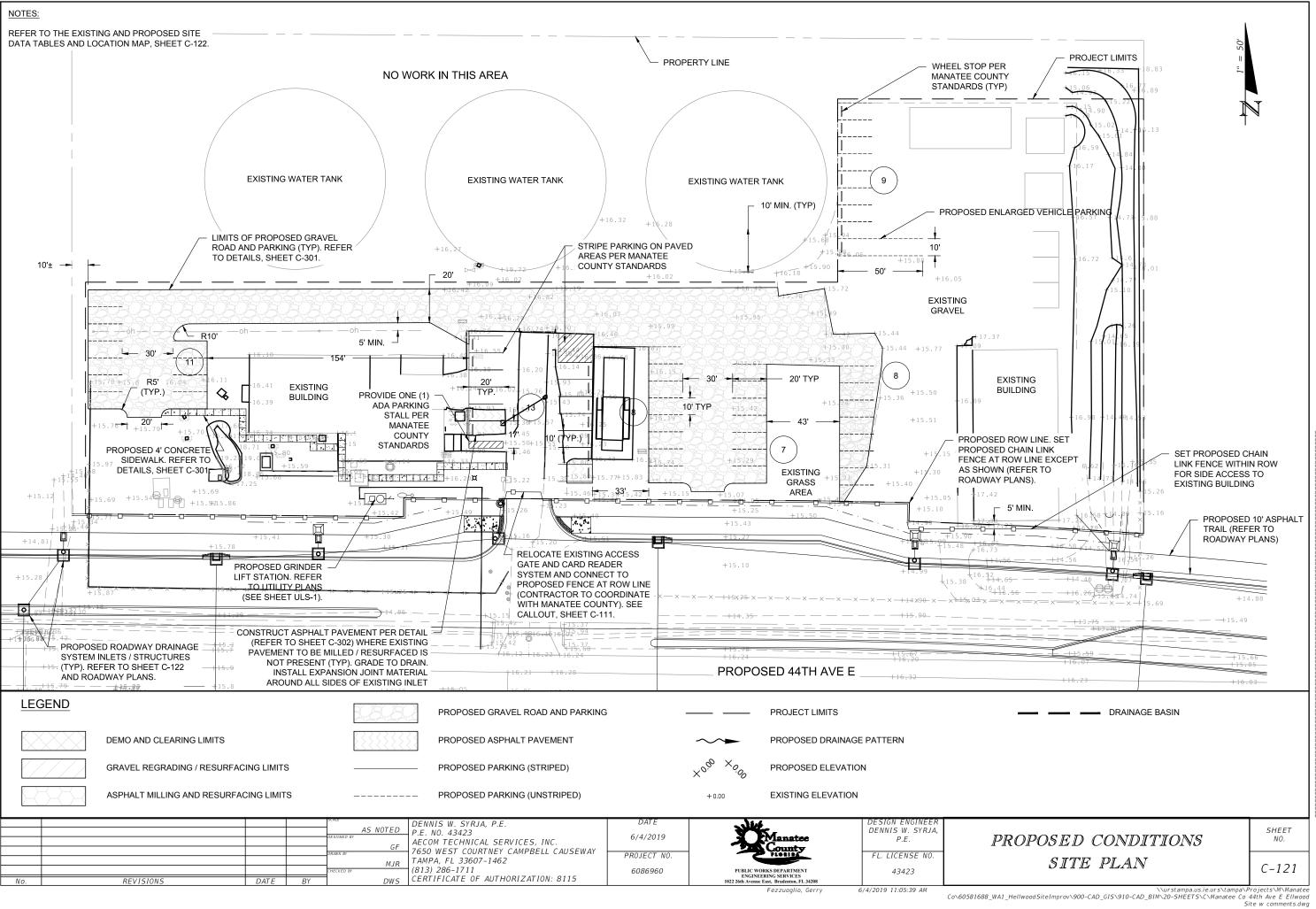
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SITE DATA

SECTION / TOWNSHIP / RANGE

04 / 35S / 18E

TAX PARCEL ID

1537700005

PROJECT ADDRESS

4825 44TH AVE E BRADENTON, FL 34203

LEGAL DESCRIPTION

THE SOUTH HALF OF LOT 56, BLOCK 7 OF ELWOOD PARK SUBDIVISION AS RECORDED IN PLAT BOOK 2, PAGE 76, PUBLIC RECORDS OF MANATEE COUNTY, FLORIDA, BEING IN SECTION 4, TOWNSHIP 35 SOUTH, RANGE 18 EAST

ZONING

A-1

FUTURE LAND USE

P/SP-1

FLOOD ZONE

ZONE X FEMA FIRM MAP PANEL NO. 12081C0309E,12081C0328E

SITE AREA

4.8 AC

PROJECT AREA

2.4± AC

EXISTING IMPERVIOUS AREA (WITHIN PROJECT LIMITS)

1.22± AC

PROPOSED IMPERVIOUS AREA (WITHIN PROJECT LIMITS)

REVISIONS

DATE

BY

1.62± AC (INCREASE OF 0.4± AC)

OWNER INFO

MANATEE COUNTY P O BOX 1000 BRADENTON, FL 34206

ELWOOD I PUMP STATION Р Р P LOCATION MAP 1" = 200' DESIGN ENGINEER DENNIS W. SYRJA, P.E. 6/4/2019 PROJECT NO. FL. LICENSE NO. 6086960 43423 PUBLIC WORKS DEPARTMEN 1022 26

EXISTING PARKING

-APPROXIMATELY 28 PAVED EMPLOYEE PARKING SPACES (ALONG WITH MISCELLANEOUS GRAVEL PAVED STORAGE AND PARKING AREAS)

PROPOSED PARKING

-EMPLOYEE PARKING: 24 SPACES PROVIDED (1 ADA) -EQUIPMENT STORAGE AND PARKING: 32 SPACES PROVIDED (WITH OVERFLOW AREA)

DENNIS W. SYRJA, P.E.

TAMPA, FL 33607-1462

AECOM TECHNICAL SERVICES, INC.

(813) 286-1711 CERTIFICATE OF AUTHORIZATION: 8115

7650 WEST COURTNEY CAMPBELL CAUSEWAY

P.E. NO. 43423

N/A

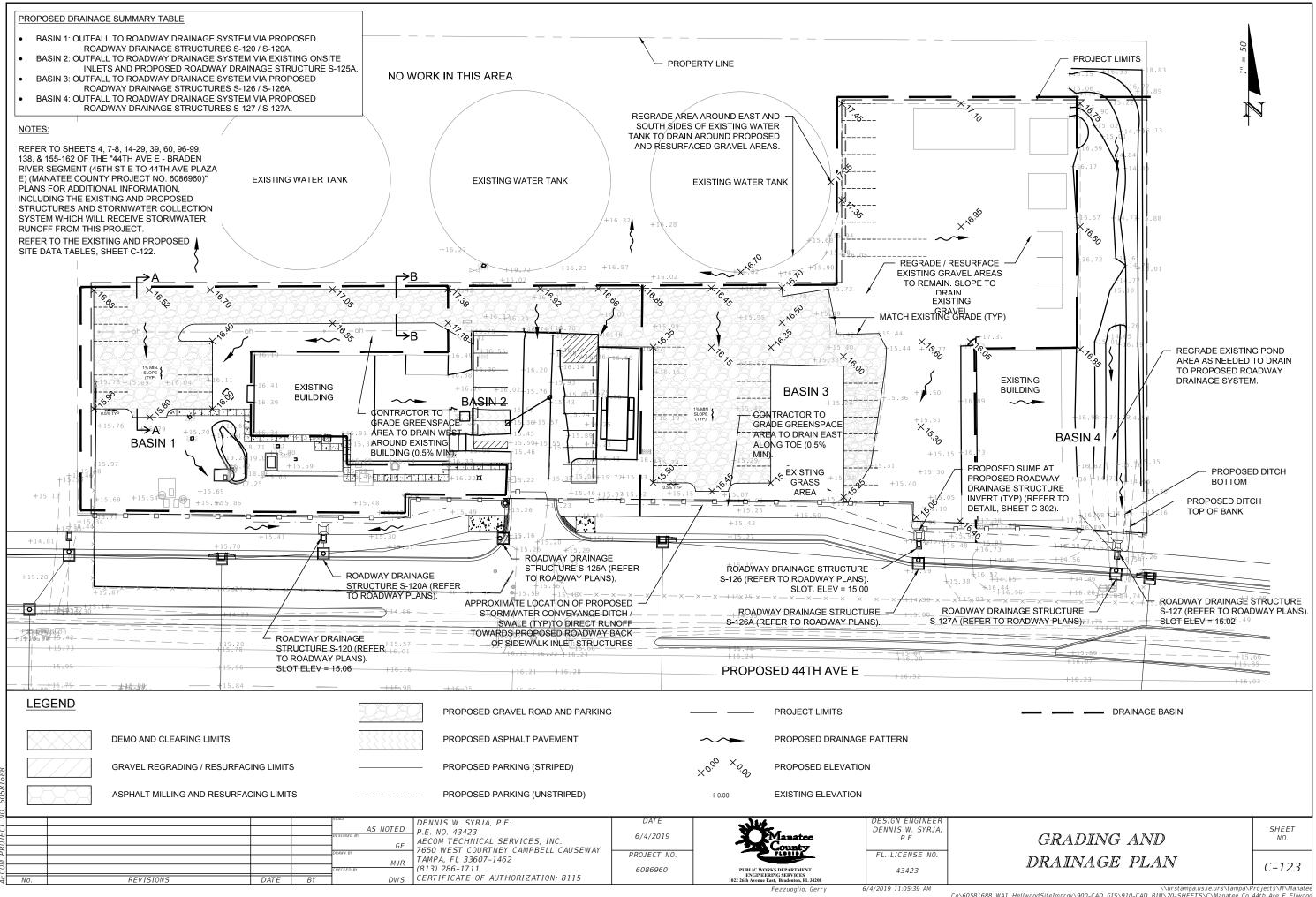
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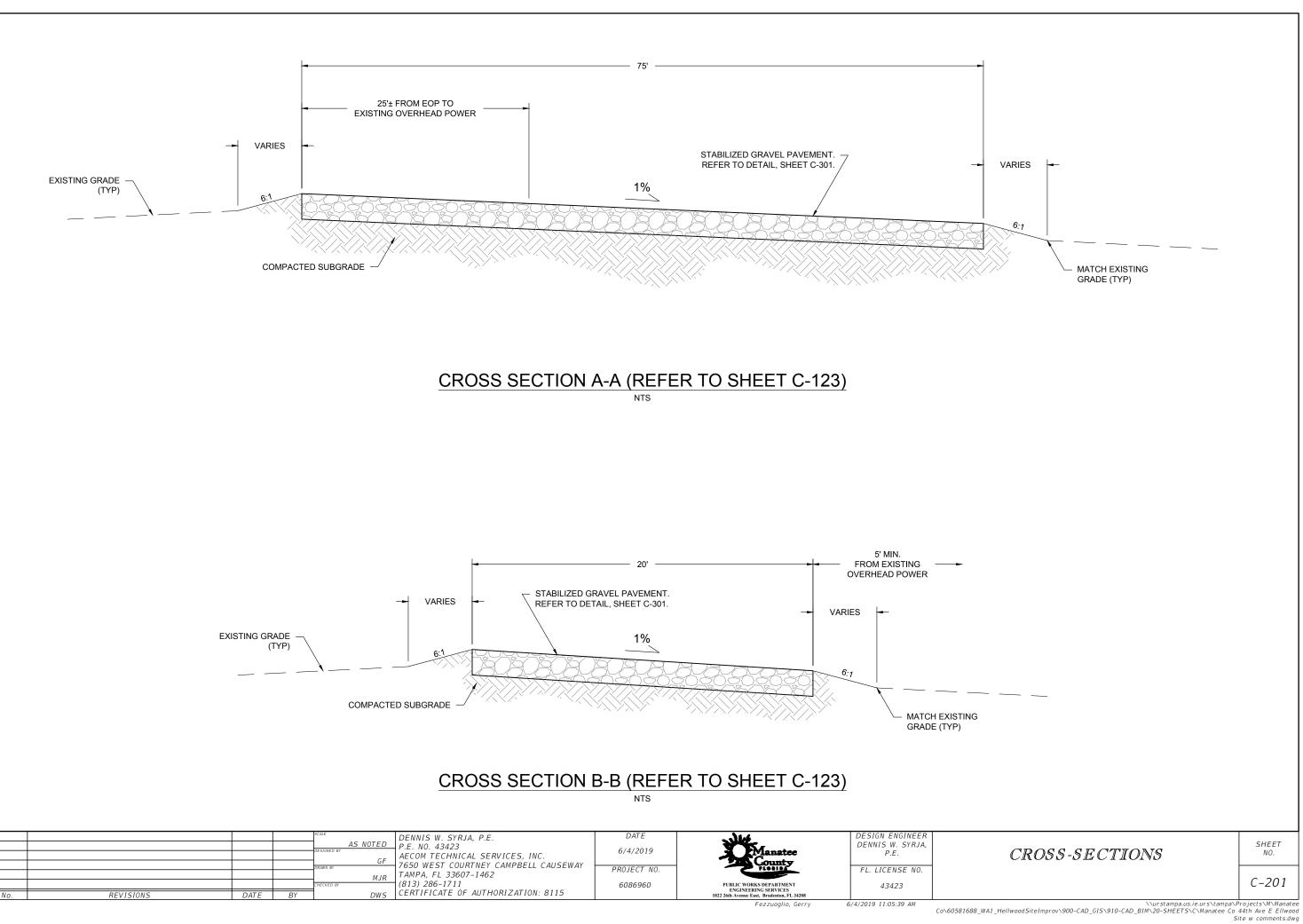
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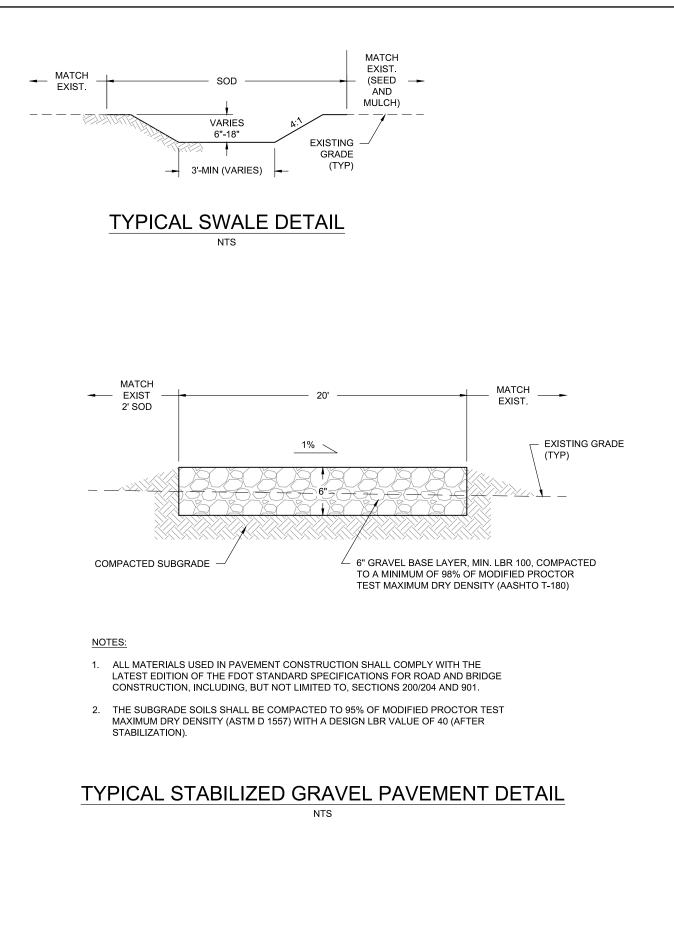


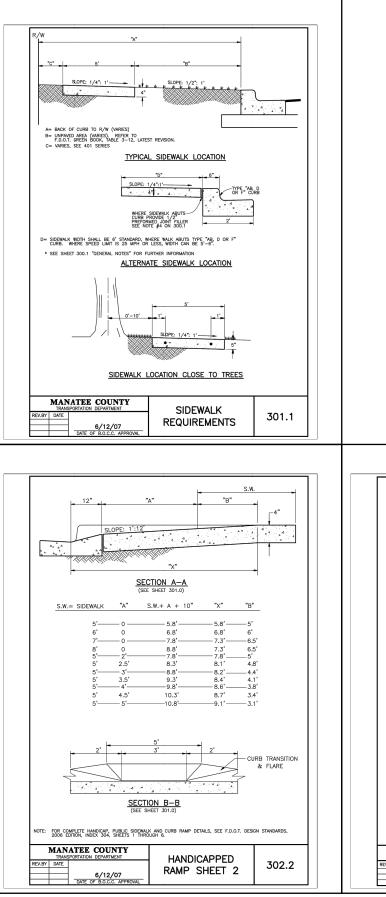
MANATEE COUNTY
 SEGMENT (45TH ST

Co\60581688_WA1_HellwoodSiteImprov\900-CAD_GIS\910-CAD_BIM\20-SHEETS\C\Manatee Co 44th Ave E Ellwood



6086960 - MANATEE COUNTY EN RIVER SEGMENT (45TH ST E TO 44TH AVE PLAZA E) 60581688 CT NO. BRADE CT NO. 6

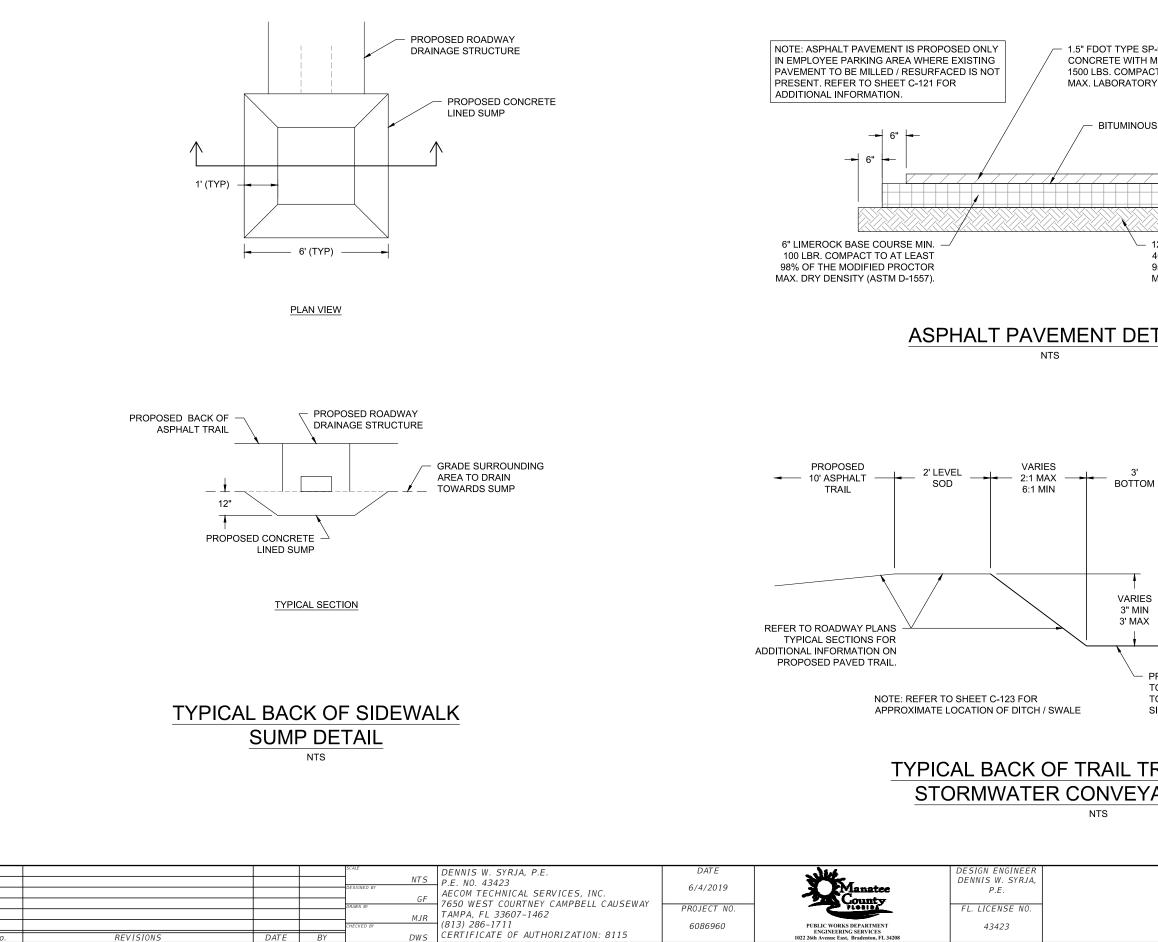




				SCALE		DENNIS W. SYRJA, P.E.	DATE	-146	DESIGN ENGINEER	
					TS	P.E. NO. 43423	6/4/2019	Manatee	DENNIS W. SYRJA,	1
				DESIGNED BY	<i>C</i> .F.	AECOM TECHNICAL SERVICES, INC.	0/4/2019		P.E.	1
		(DRAWN BY	GF	7650 WEST COURTNEY CAMPBELL CAUSEWAY	PROJECT NO.	County	FL. LICENSE NO.	1
				м	JR	TAMPA, FL 33607-1462	PROJECT NO.		FL. LICENSE NU.	1
				CHECKED BY		(813) 286-1711	6086960	PUBLIC WORKS DEPARTMENT	43423	1
No.	REVISIONS	DATE	BY	DV	NS	CERTIFICATE OF AUTHORIZATION: 8115		ENGINEERING SERVICES 1022 26th Avenue East, Bradenton, FL 34208		1
		-		•				Fezzuoglio, Gerry	6/4/2019 11:05:39 AM	

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EDGE OF DEFECTABLE WARNING WAR	
0.2"	
CURB RAMP DETECTABLE WARNING DETAIL	
NOTES: DETECTABLE WARNINGS ON WALKING SURFACES THE DETECTABLE WARNINGS SHALL EXTEND THE FULL WIDTH AND DEPTH OF THE CURB RAMP DETECTABLE WARNINGS SHALL CONST OF PARGED TRUNCATED DOWES WITH A DAMATER OF NOTIMUL 2.35 INCH AND SHALL CONST OF PARGED TRUNCATED DOWES WITH A DAMATER OF IN DAMAL 2.35 INCH AND SHALL CONST OF PARGED TRUNCATED DOWES WITH A DAMATER OF DOWNING L.35 INCH AND SHALL CONTRAST SHALL BE AN INTEGRA, FART OF THE WARNING SURFACE. DETECTABLE WARNINGS USED ON INTERIOR SURFACES SHALL DIFFER TROM ADJOINING WALKING SUFFACES IN RESIDENCY OR SOUND-ON-CANE CONTRAST. LTHE MATERIAL USED TO PROVIDE CONTRAST SHALL BE AN INTEGRA, FART OF THE WARNING SURFACE. DETECTABLE WARNINGS USED ON INTERIOR SURFACES SHALL DIFFER TROM ADJOINING WALKING SUFFACES IN RESIDENCY OR SOUND-ON-CANE CONTRAST. CONTRAST = [(BI-B2)/B1] X 10 WHETE BI - LIGHT ERFECTIONES WILL (WY) OF THE LIGHTER AREA AND B2 = LIGHT REFLECTANCE VALUE (LWY) OF THE DARKER AREA. NOTE REQUILS 100 AND BC1 IS MAINT SOFTH WHITE AND BLACK ARE NEVER ABSOLUTE; THUS, B1 NOTER EQUALS 100 AND BC1 IS MAINT SOFTH WHITE AND BLACK ARE NEVER ABSOLUTE; THUS, B1 NOTER EQUALS 100 AND BC1 IS MAINT SOFTH WHITE AND BLACK ARE NEVER ABSOLUTE; THUS, B1 MANATEE COUNTY	
MINATELE CURB RAMP Interpretation 0024110811 DETECTABLE 302 Date 6/12/07 WARNINGS	2.3
DETAILS	SHEET NO.
Nurstamaa us ja urs Mamaa I	C-301



6/4/2019 11:05:39 AM Co\60581688_WA1_HellwoodSiteImprov\900-CAD_GIS\910-CAD_BIM\20-SHEETS\C\Manatee Co_44th Ave E_Ellwood Site w comments.dwg

Fezzunalin Gerr

SP-9.5 SUPERPAVE ASPHALT H MINIMUM STABILITY OF ACT TO AT LEAST 96% OF DRY DENSITY.	
DUS TACK & PRIME COAT	
 12" STABILIZED SUBGRADE MIN. 40 LBR. COMPACT TO AT LEAST 95% OF THE MODIFIED PROCTOR MAX. DRY DENSITY (ASTM D-1557). 	
ETAIL	
VARIES TRANSITION TO EXISTING OR PROPOSED GRADE	
ES IN AX 4:1 MAX	
 PROPOSED CONVEYANCE DITCH / SWALE TO DIRECT ONSITE STORMWATER RUNOFF TO PROPOSED ROADWAY BACK OF SIDEWALK INLET STRUCTURES 	
TRANSITION AND YANCE DETAIL	
DETAILS	SHEET NO.

MANATEE COUNTY / WATER BOOSTER STATION - QUANTITIES

PAY ITEM #	ITEM DESCRIPTION	UNIT	QUANTITY
0110 1 1	CLEARING & GRUBBING, INCLUDES FEXIBLE PAVEMENT REMOVAL	AC	2.1
0110 4 10	REMOVAL OF EXISTING CONCRETE	SY	58
0120 1	REGULAR EXCAVATION	CY	100
0120 4	SUBSOIL EXCAVATION	CY	280
0327 70 5	MILLING EXIST ASPH PAVT, 2" AVG DEPTH	SY	720
0339 1	MISCELLANEOUS ASPHALT PAVEMENT	TN	72
0519 78	BOLLARDS	EA	4
0522 1	CONCRETE SIDEWALK AND DRIVEWAYS, 4" THICK	SY	110
0530 74	BEDDING STONE	TN	885
0542 70	BUMPER GUARDS, CONCRETE	EA	11
0550 10222	FENCING, TYPE B, 5.1-6.0, W/VINYL COATING	LF	700
0570 1 2	PERFORMANCE TURF, SOD	SY	300
0634 4600	SPAN WIRE ASSEMBLY, REMOVE - POLES REMAIN	PI	1
0700 1 11	SINGLE POST SIGN, F&I GROUND MOUNT, UP TO 12 FT	AS	1
0710 11125	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SOLID FOR STO	LF	400

NOTE:

AND RELOCATE EXISTING GATE

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r -					SCALE		DENNIS W. SYRJA, P.E.	DATE	-)64	DESIGN ENGINEER	
7 6						N/A	P.E. NO. 43423	C (12 (2010		DENNIS W. SYRJA,	
۵ <i>1</i>					DESIGNED BY	65	AECOM TECHNICAL SERVICES, INC.	6/12/2019	Manatee	P.E.	
ЧŔ					DRAWN BY	GF	7650 WEST COURTNEY CAMPBELL CAUSEWAY	PROJECT NO.	County	FL. LICENSE NO.	-
₹						MJR	TAMPA, FL 33607-1462	PROJECT NO.		FL. LICENSE NO.	
εÖ					CHECKED BY	MJN	(813) 286-1711	6086960	PUBLIC WORKS DEPARTMENT	43423	
44 AE (No.	REVISIONS	DATE	BY	1	DWS	CERTIFICATE OF AUTHORIZATION: 8115		ENGINEERING SERVICES 1022 26th Avenue East, Bradenton, FL 34208		
							·		Fezzuoglio, Gerry	6/12/2019 2:04:06 PM	C.) C0501600 J

*011011 TO INCLUDE BIBB REMOVAL AND CAP, DISMANTLE *01201 TO INCLUDE DOWNSPOUTS CONNECTION TO POND

*053074 TO INCLUDE FILTER FABRIC UNDER THE GRAVEL

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