



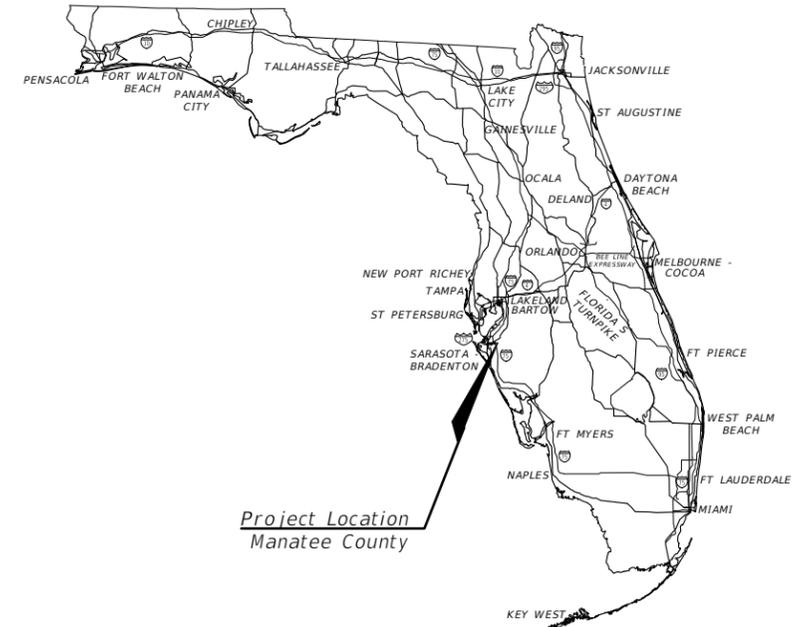
CONTRACT PLANS

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

SHEET NO.	SHEET DESCRIPTION
C-00	KEYSHEET
C-000	SIGNATURE SHEET
C-001 & C-002	GENERAL CONSTRUCTION NOTES
C-101	EXISTING CONDITIONS PLAN
C-111	DEMOLITION PLAN
C-121	PROPOSED CONDITIONS SITE PLAN
C-122	SITE DATA AND LOCATION MAP
C-123	GRADING AND DRAINAGE PLAN
C-201	CROSS-SECTIONS
C-301 & C-302	DETAILS
C-401	QUANTITIES

PLANS PREPARED BY:

AECOM TECHNICAL SERVICES, INC.
7650 W. COURTNEY CAMPBELL CAUSEWAY
TAMPA, FL 33607-1462
(813) 286-1711

VENDOR NO. F952661922
CERTIFICATE OF AUTHORIZATION NO. 00008115

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

100% SUBMITTAL

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:

<http://www.dot.state.fl.us/rddesign/>

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/>

SITE PLANS
ENGINEER OF RECORD: DENNIS SYRJA

P.E. NO.: 43423

FISCAL YEAR	SHEET NO.
19	C-00

MANATEE COUNTY PROJECT MANAGER: ERIC SHROYER

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



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

INDEX SITE/CIVIL PLANS

SHEET NO.	SHEET DESCRIPTION
C-00	COVER SHEET
C-000	SIGNATURE SHEET
C-001 & C-002	GENERAL CONSTRUCTION NOTES
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C-401	QUANTITIES

COUNTY PROJECT NO. 6086960 - MANATEE COUNTY
 44TH AVE E - BRADEN RIVER SEGMENT (45TH ST E TO 44TH AVE PLAZA E)
 AECOM PROJECT NO. 60581688

				SCALE	N/A	DENNIS W. SYRJA, P.E. P.E. NO. 43423	DATE	6/12/2019	 PUBLIC WORKS DEPARTMENT ENGINEERING SERVICES 1022 26th Avenue East, Bradenton, FL 34208	DESIGN ENGINEER DENNIS W. SYRJA, P.E.	<h2>SIGNATURE SHEET</h2>	SHEET NO.
			DESIGNED BY	GF	AECOM TECHNICAL SERVICES, INC. 7650 WEST COURTNEY CAMPBELL CAUSEWAY TAMPA, FL 33607-1462 (813) 286-1711	PROJECT NO.	6086960	FL. LICENSE NO.		43423		<h2>C-000</h2>
			DRAWN BY	MJR								
			CHECKED BY	DWS	CERTIFICATE OF AUTHORIZATION: 8115							
No.	REVISIONS	DATE	BY									

GENERAL CONSTRUCTION NOTES

DEMOLITION AND PHASING NOTES

1. 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:
 - 2.1. IDENTIFICATION OF DEMO LIMITS, TEMPORARY CONTRACTOR WORK SPACE, STAGING AND STOCKPILE AREAS, HAULING ROUTES, 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.
 - 2.2. IDENTIFICATION OF CONSTRUCTION PHASES AND SUB-PHASES, IF REQUIRED
 - 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 STABILIZATION MEASURES, EROSION CONTROL, TEMPORARY RUNOFF DIVERSION MEASURES, ETC.)
 - 2.5. SEQUENCE OF ONSITE UTILITY DEMOLITION AND REMOVAL/ABANDONMENT TO ENSURE SERVICE IS MAINTAINED TO THE EXISTING MANATEE COUNTY FACILITY DURING CONSTRUCTION
 - 2.5.1. ANY AND ALL UTILITY SERVICE SHUT DOWNS SHALL BE FULLY COORDINATED WITH MANATEE COUNTY AS TO NOT DISRUPT 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.
4. CONTRACTOR IS RESPONSIBLE FOR OBTAINING ANY NECESSARY CONSTRUCTION PERMITS FOR THE PHASED CONSTRUCTION ACTIVITIES FROM THE AGENCY HAVING JURISDICTION (AHJ).
5. EXISTING UNDERGROUND UTILITIES AND ASSOCIATED APPURTENANCES ARE DEPICTED PER INFORMATION PROVIDED BY THE SURVEY (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.
6. 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

1. 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.
3. FORTY-EIGHT (48) HOUR NOTICE IS REQUIRED BY THE ENGINEER PRIOR TO SITE INSPECTIONS AND/OR WITNESSING OF WATER AND/OR SEWER TESTING.
4. ALL EXISTING TREES TO REMAIN SHALL BE BARRICADE PROTECTED FROM DAMAGE BY EQUIPMENT AND/OR PERSONNEL.
5. 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.

6. THIS PROJECT IS INTENDED TO SUPPORT THE "44TH AVE E - BRADEN RIVER SEGMENT (45TH ST E TO 44TH AVE PLAZA E) ROADWAY PROJECT BY MANATEE COUNTY (MANATEE COUNTY PROJECT NO. 6086960)
7. 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 RUNOFF FROM THIS PROJECT.
8. EXISTING CONDITIONS INFORMATION IS PROVIDED BY THE TOPOGRAPHIC SURVEY BY AECOM, DATED 08/09/2018, BY GARY W. LUTES, L.S. NO. 4367. EXISTING UTILITIES AND / OR OTHER SITE FEATURES SHOWN ON THESE PLANS ARE APPROXIMATE. CONTRACTOR TO FIELD-VERIFY SITE CONDITIONS BEFORE CONSTRUCTION BEGINS.
9. HORIZONTAL DATUM: NAD83 (FL-W)
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 OVER PIPELINES AND AROUND STRUCTURES FROM R.O.W. LINE TO R.O.W. LINE AND IN STRUCTURAL AREAS	OPTIMUM MOISTURE/MAXIMUM DENSITY 98% OF MAXIMUM DENSITY AS DETERMINED BY AASHTO T180-57 (ASTM D1557-70)	PER SOIL TYPE (SEE NOTES 1 AND 2 BELOW)
STABILIZED SUB GRADE	OPTIMUM MOISTURE/MAXIMUM DENSITY MINIMUM 40 LBR 98% OF MAXIMUM DENSITY AS DETERMINED BY AASHTO T180-57 (ASTM D1557-70)	PER MATERIAL TYPE PER MATERIAL TYPE (SEE NOTES 1 & 3 BELOW)
BASE (OTHER THAN SOIL CEMENT)	OPTIMUM MOISTURE/MAXIMUM DENSITY MINIMUM 100 LBR 98% OF MAXIMUM DENSITY AS DETERMINED BY AASHTO T180-57 (ASTM D1557-70) - NO TOLERANCE GRADATION, ATTERBURG LIMITS	PER SOURCE PER SOURCE EACH LIFT (SEE NOTE 3 BELOW) PER SOURCE
BASE (SOIL CEMENT)	SOIL CEMENT SHALL BE PLANT MIX OR PUG MILL MIX - NO MIX IN PLACE 95% MAXIMUM DRY DENSITY AS DETERMINED BY AASHTO T-134 MINIMUM COMPRESSIVE STRENGTH AT 7 DAYS THICKNESS TEST CORES	1 PER 300 LF (MIN 1 PER STREET) 3 SAMPLES COMPACTED DAILY (300 PSI) 300 FT. INTERVALS (MIN 1 PER STREET)
CONCRETE (SEE NOTE 4 BELOW) (PER AASHTO & ASTM SPECS)	SLUMP TEST MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS COMPRESSIVE STRENGTH CYLINDERS AIR CONTENT	ONE PER SET OF CYLINDERS 3,500 PSI ONE SET OF THREE (3) CYLINDERS FOR 100 CUBIC YARDS OR FRACTION THEREOF ONE PER SET OF CYLINDERS
ASPHALTIC CONCRETE (PER FDOT SECTION 320)	AGGREGATE ANALYSIS DESIGN MIX BITUMEN CONTENT GRADATION STABILITY FLOW PROPERTIES OF IN-PLACE MATERIALS (MARSHALL) THICKNESS 95% OF LAB DENSITY	ONE PER DESIGN ONE PER TYPE ONE PER DAY ONE PER DAY ONE PER DAY (SEE NOTE 3 BELOW) (SEE NOTE 3 BELOW)

1. TESTS SHALL BE LOCATED NO MORE THAN 500 FEET APART. TESTS SHALL BE PERFORMED ON EACH LIFT, EXCEPT THAT TESTS SHALL NOT BE FURTHER APART THAN ONE (1) FOOT VERTICALLY. FIELD DENSITIES SHALL BE TAKEN OVER ALL ROAD CROSSINGS. FIELD DENSITIES FOR SANITARY LINES SHALL BE STAGGERED TO INCLUDE RESULTS OVER SERVICE LATERALS. THERE SHALL BE A MINIMUM OF ONE (1) TEST SERIES FOR EACH 6 INCHES OF LIFT OVER PIPELINE BETWEEN MANHOLES. TESTS AROUND STRUCTURES SHALL BE SPIRALED IN 6 INCH LIFTS. TESTS AROUND BOX CULVERTS SHALL BE 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.
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.
9. IF SUCCESSIVE VERTICAL LIFTS ARE PLACED, THE DENSITY TESTS SHALL BE STAGGERED SO AS TO NOT BE REPEATED IN THE SAME LOCATION.

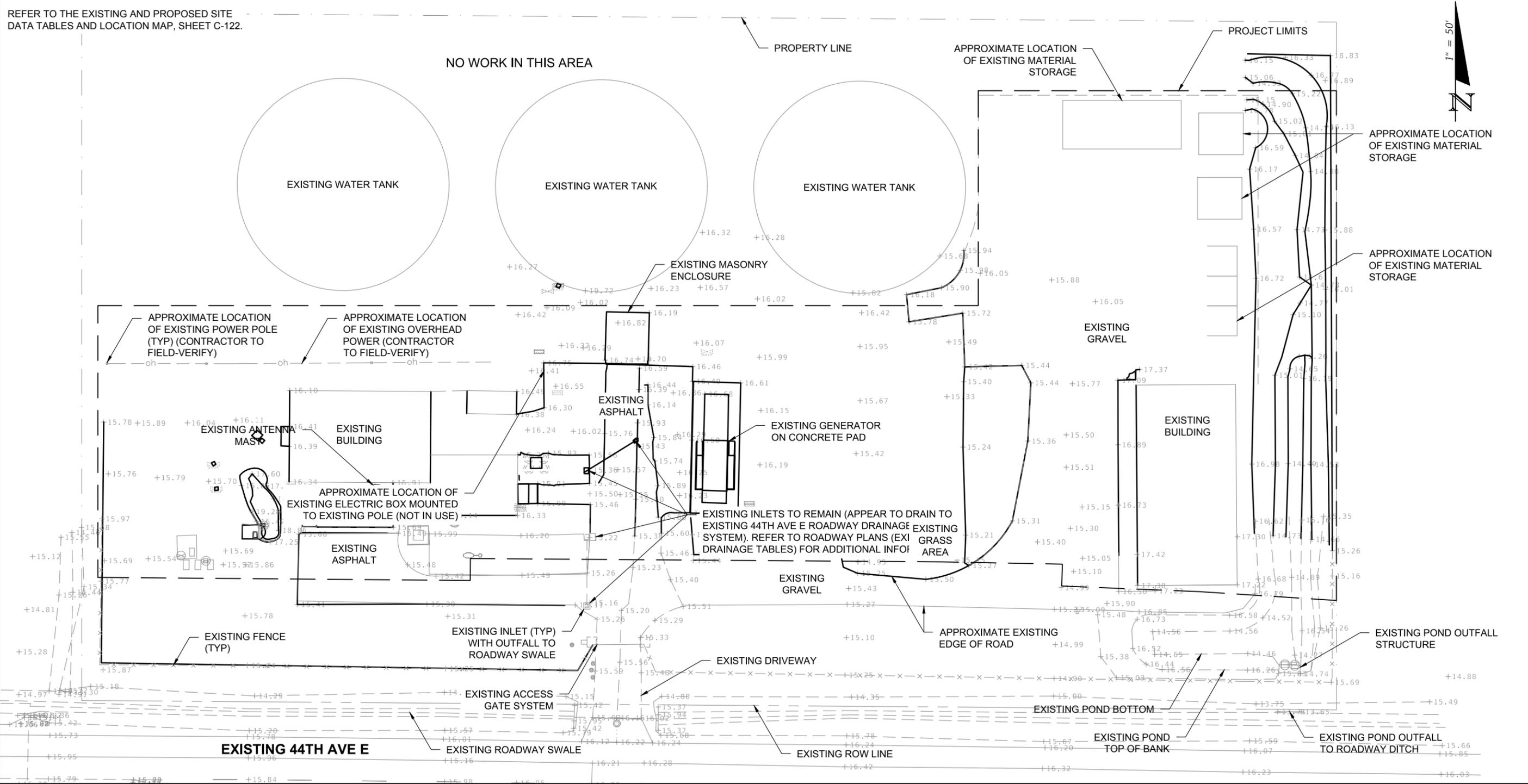
CONTRACTOR SHALL CALL
"SUNSHINE STATE ONE CALL" 1-800-432-4770
 A MINIMUM OF 2-DAYS AND
 A MAXIMUM OF 5-DAYS PRIOR TO START OF CONSTRUCTION.

COUNTY PROJECT NO. 6086960 - MANATEE COUNTY
44TH AVE E - BRADEN RIVER SEGMENT (45TH ST E TO 44TH AVE PLAZA E)
AECOM PROJECT NO. 60581688

SCALE		DESIGNED BY		DATE			DESIGN ENGINEER DENNIS W. SYRJA, P.E.	<p style="text-align: center;">GENERAL CONSTRUCTION NOTES</p>	SHEET NO.
N/A		GF		6/4/2019					
DRAWN BY		MJR		PROJECT NO.		PUBLIC WORKS DEPARTMENT ENGINEERING SERVICES 1022 26th Avenue East, Bradenton, FL 34208 Fezzuoglio, Gerry	FL. LICENSE NO. 43423		C-002
CHECKED BY		DWS		6086960					
No.	REVISIONS	DATE	BY	CERTIFICATE OF AUTHORIZATION: 8115					

NOTES:

REFER TO THE EXISTING AND PROPOSED SITE DATA TABLES AND LOCATION MAP, SHEET C-122.



LEGEND	
	DEMO AND CLEARING LIMITS
	GRAVEL REGRADING / RESURFACING LIMITS
	ASPHALT MILLING AND RESURFACING LIMITS
	PROPOSED GRAVEL ROAD AND PARKING
	PROPOSED ASPHALT PAVEMENT
	PROPOSED PARKING (STRIPED)
	PROPOSED PARKING (UNSTRIPED)
	PROJECT LIMITS
	PROPOSED DRAINAGE PATTERN
	PROPOSED ELEVATION
	EXISTING ELEVATION
	DRAINAGE BASIN

No.	REVISIONS	DATE	BY

SCALE	AS NOTED	DENNIS W. SYRJA, P.E. P.E. NO. 43423	DATE	6/4/2019
DESIGNED BY	GF	AECOM TECHNICAL SERVICES, INC. 7650 WEST COURTNEY CAMPBELL CAUSEWAY TAMPA, FL 33607-1462 (813) 286-1711	PROJECT NO.	6086960
DRAWN BY	MJR	CERTIFICATE OF AUTHORIZATION: 8115		
CHECKED BY	DWS			

DESIGN ENGINEER	DENNIS W. SYRJA, P.E.
FL. LICENSE NO.	43423

PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208
Fezzuoglio, Gerry

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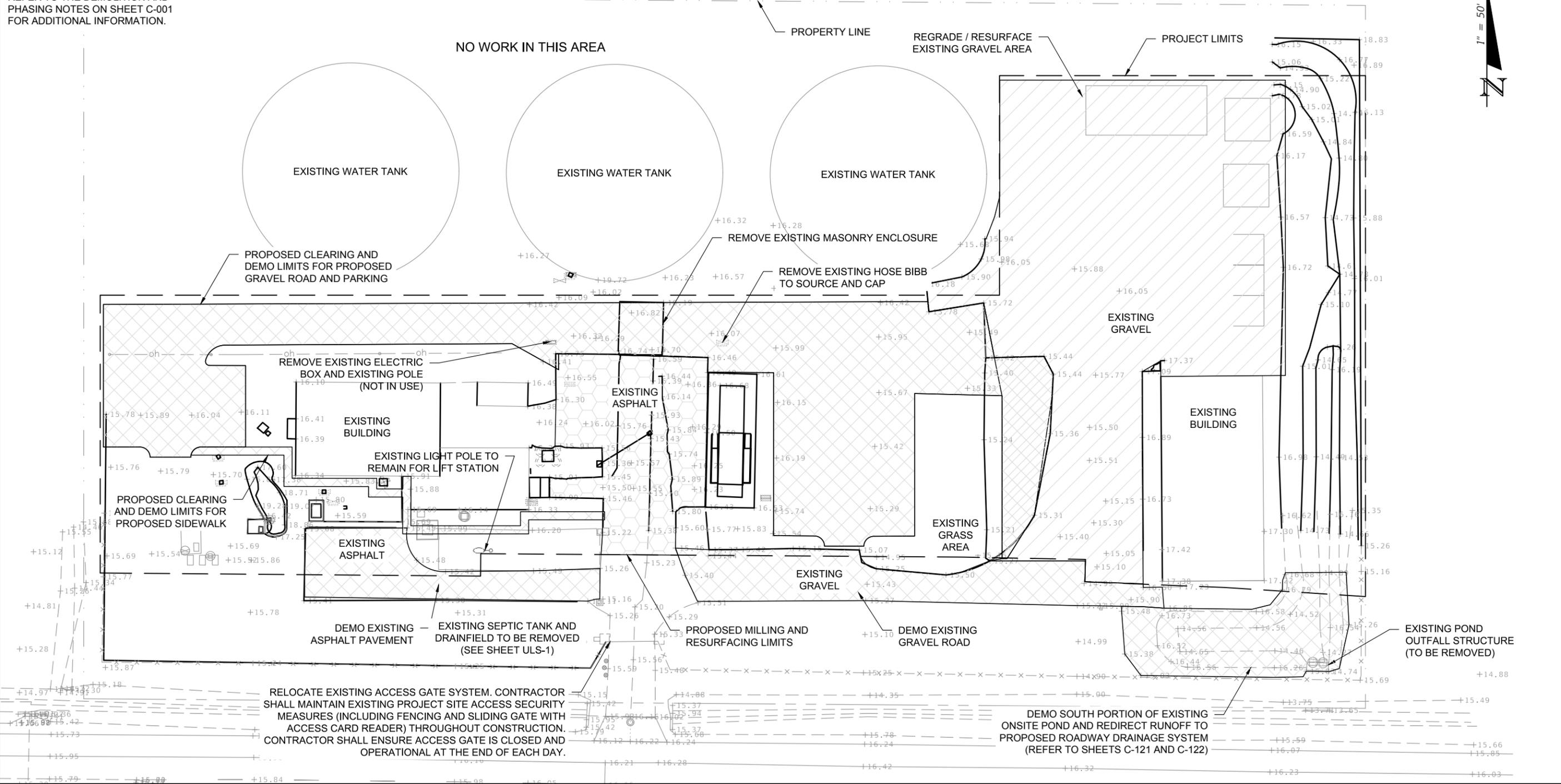
EXISTING CONDITIONS PLAN

SHEET NO.	C-101
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COUNTY PROJECT NO. 6086960 - MANATEE COUNTY
44TH AVE E - BRADEN RIVER SEGMENT (45TH ST E TO 44TH AVE PLAZA E)
AECOM PROJECT NO. 60581688

NOTES:

REFER TO THE DEMOLITION AND PHASING NOTES ON SHEET C-001 FOR ADDITIONAL INFORMATION.



RELOCATE EXISTING ACCESS GATE SYSTEM. CONTRACTOR SHALL MAINTAIN EXISTING PROJECT SITE ACCESS SECURITY MEASURES (INCLUDING FENCING AND SLIDING GATE WITH ACCESS CARD READER) THROUGHOUT CONSTRUCTION. CONTRACTOR SHALL ENSURE ACCESS GATE IS CLOSED AND OPERATIONAL AT THE END OF EACH DAY.

DEMO SOUTH PORTION OF EXISTING ONSITE POND AND REDIRECT RUNOFF TO PROPOSED ROADWAY DRAINAGE SYSTEM (REFER TO SHEETS C-121 AND C-122)

LEGEND	
	DEMO AND CLEARING LIMITS
	GRAVEL REGRADING / RESURFACING LIMITS
	ASPHALT MILLING AND RESURFACING LIMITS
	PROPOSED GRAVEL ROAD AND PARKING
	PROPOSED ASPHALT PAVEMENT
	PROPOSED PARKING (STRIPED)
	PROPOSED PARKING (UNSTRIPED)
	PROJECT LIMITS
	PROPOSED DRAINAGE PATTERN
	PROPOSED ELEVATION
	EXISTING ELEVATION
	DRAINAGE BASIN

No.	REVISIONS	DATE	BY

SCALE	AS NOTED	DENNIS W. SYRJA, P.E. P.E. NO. 43423	DATE	6/4/2019
DESIGNED BY	GF	AECOM TECHNICAL SERVICES, INC. 7650 WEST COURTNEY CAMPBELL CAUSEWAY TAMPA, FL 33607-1462	PROJECT NO.	6086960
DRAWN BY	MJR	(813) 286-1711		
CHECKED BY	DWS	CERTIFICATE OF AUTHORIZATION: 8115		

DATE	6/4/2019
PROJECT NO.	6086960



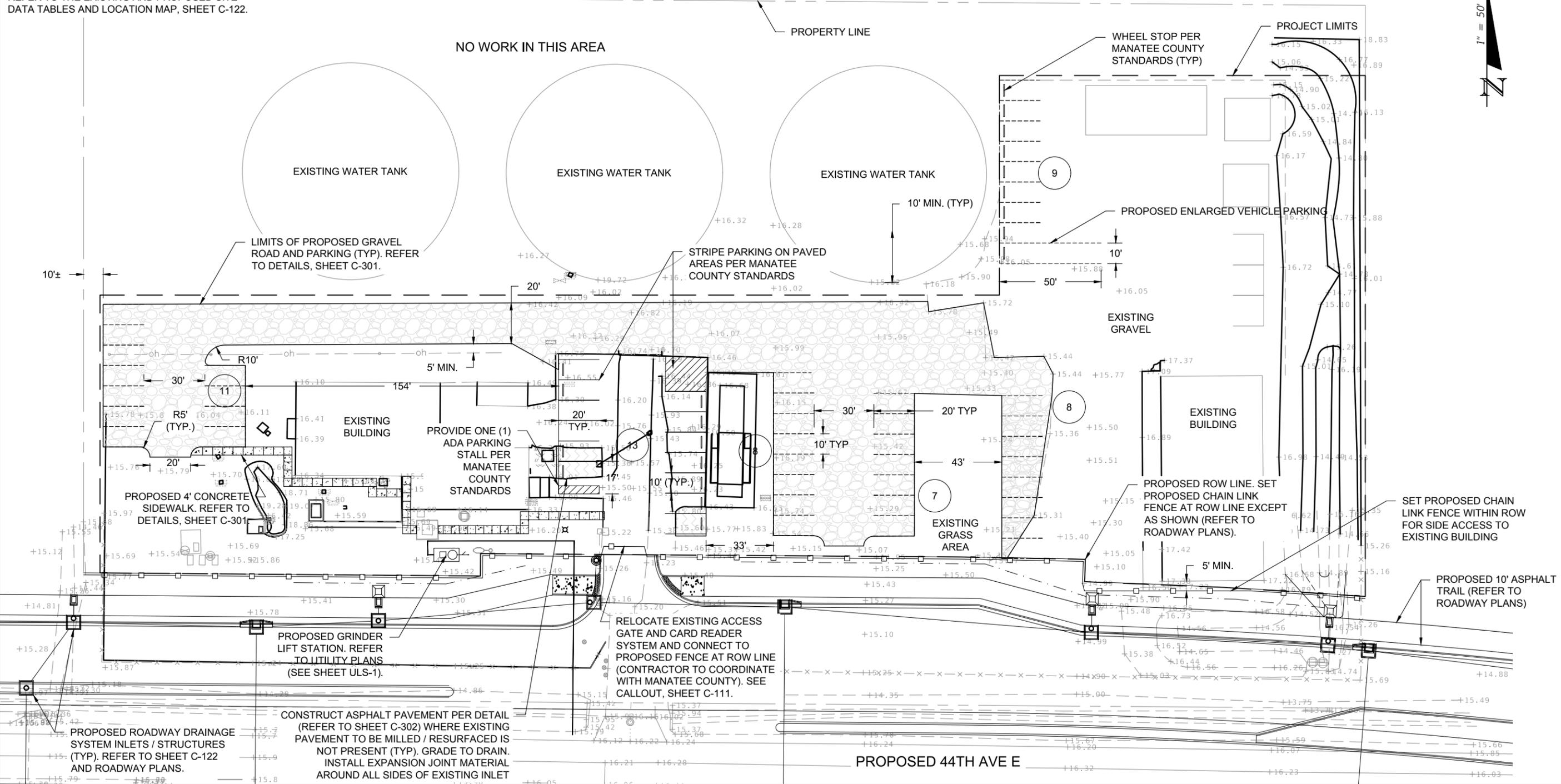
DESIGN ENGINEER	DENNIS W. SYRJA, P.E.
FL. LICENSE NO.	43423

DEMOLITION PLAN

SHEET NO.	C-111
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COUNTY PROJECT NO. 6086960 - MANATEE COUNTY
44TH AVE E - BRADEN RIVER SEGMENT (45TH ST E TO 44TH AVE PLAZA E)
AECOM PROJECT NO. 60581688

NOTES:
 REFER TO THE EXISTING AND PROPOSED SITE DATA TABLES AND LOCATION MAP, SHEET C-122.



LEGEND	
	DEMO AND CLEARING LIMITS
	GRAVEL REGRADING / RESURFACING LIMITS
	ASPHALT MILLING AND RESURFACING LIMITS
	PROPOSED GRAVEL ROAD AND PARKING
	PROPOSED ASPHALT PAVEMENT
	PROPOSED PARKING (STRIPED)
	PROPOSED PARKING (UNSTRIPED)
	PROJECT LIMITS
	PROPOSED DRAINAGE PATTERN
	PROPOSED ELEVATION
	EXISTING ELEVATION
	DRAINAGE BASIN

No.	REVISIONS	DATE	BY

DESIGNED BY	AS NOTED	DENNIS W. SYRJA, P.E. P.E. NO. 43423
DRAWN BY	GF	AECOM TECHNICAL SERVICES, INC. 7650 WEST COURTNEY CAMPBELL CAUSEWAY TAMPA, FL 33607-1462
CHECKED BY	MJR	(813) 286-1711
	DWS	CERTIFICATE OF AUTHORIZATION: 8115

DATE	6/4/2019
PROJECT NO.	6086960

PUBLIC WORKS DEPARTMENT
 ENGINEERING SERVICES
 1022 26th Avenue East, Bradenton, FL 34208
 Fezzuoglio, Gerry

DESIGN ENGINEER	DENNIS W. SYRJA, P.E.
FL. LICENSE NO.	43423

**PROPOSED CONDITIONS
 SITE PLAN**

SHEET NO.	C-121
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COUNTY PROJECT NO. 6086960 - MANATEE COUNTY
 44TH AVE E - BRADEN RIVER SEGMENT (45TH ST E TO 44TH AVE PLAZA E)
 AECOM PROJECT NO. 60581688

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)

1.62± AC (INCREASE OF 0.4± AC)

OWNER INFO

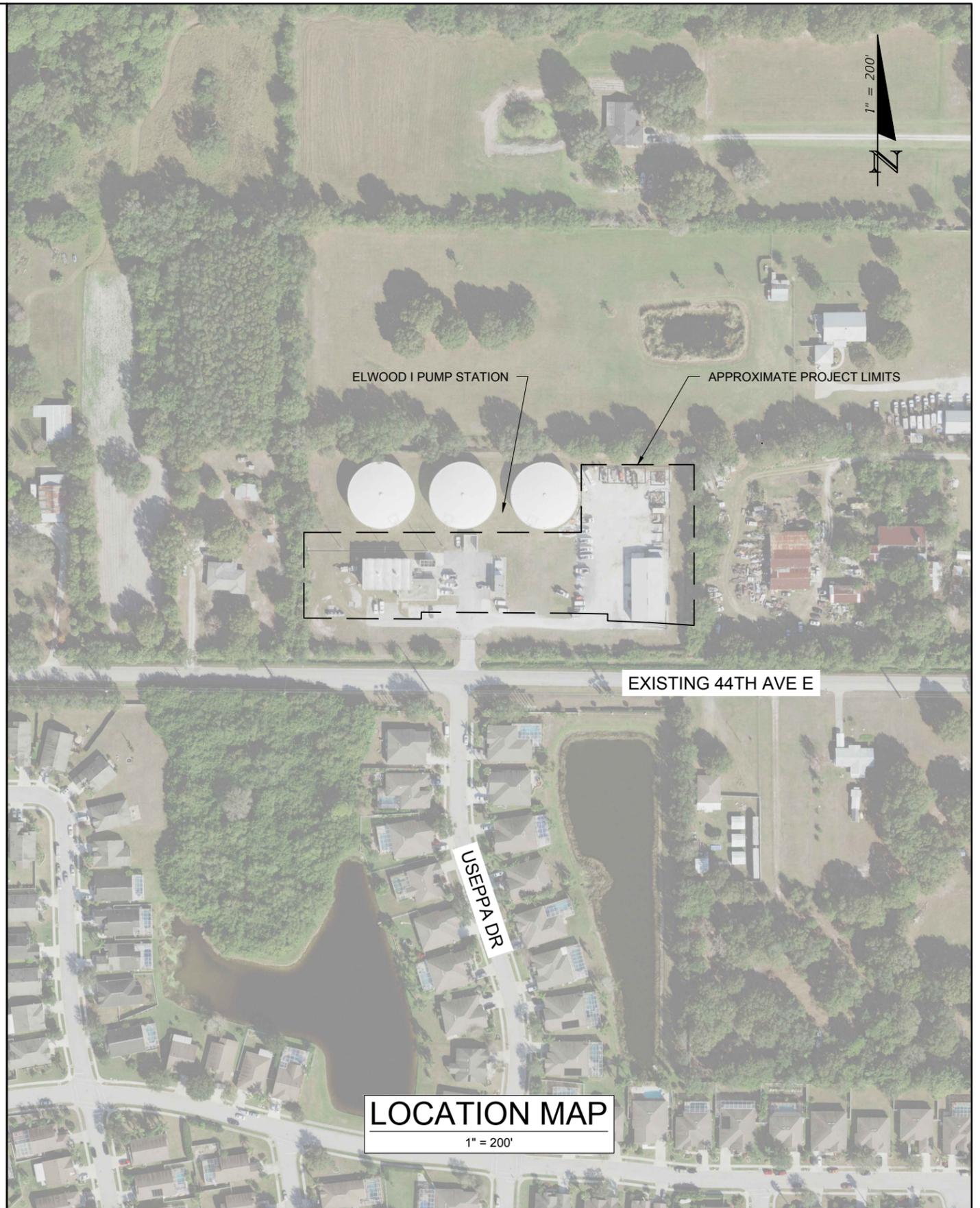
MANATEE COUNTY
P O BOX 1000
BRADENTON, FL 34206

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)



COUNTY PROJECT NO. 6086960 - MANATEE COUNTY
 44TH AVE E - BRADEN RIVER SEGMENT (45TH ST E TO 44TH AVE PLAZA E)
 AECOM PROJECT NO. 60581688

SCALE	N/A	DESIGNED BY	GF	DATE	6/4/2019
DRAWN BY	MJR	CHECKED BY	DWS	PROJECT NO.	6086960
DESIGNED BY	N/A	DENNIS W. SYRJA, P.E. P.E. NO. 43423 AECOM TECHNICAL SERVICES, INC. 7650 WEST COURTNEY CAMPBELL CAUSEWAY TAMPA, FL 33607-1462 (813) 286-1711 CERTIFICATE OF AUTHORIZATION: 8115		DESIGN ENGINEER	DENNIS W. SYRJA, P.E.
DRAWN BY	MJR			FL. LICENSE NO.	43423
CHECKED BY	DWS			<p style="text-align: center;">SITE DATA AND LOCATION MAP</p>	
No.	REVISIONS	DATE	BY		

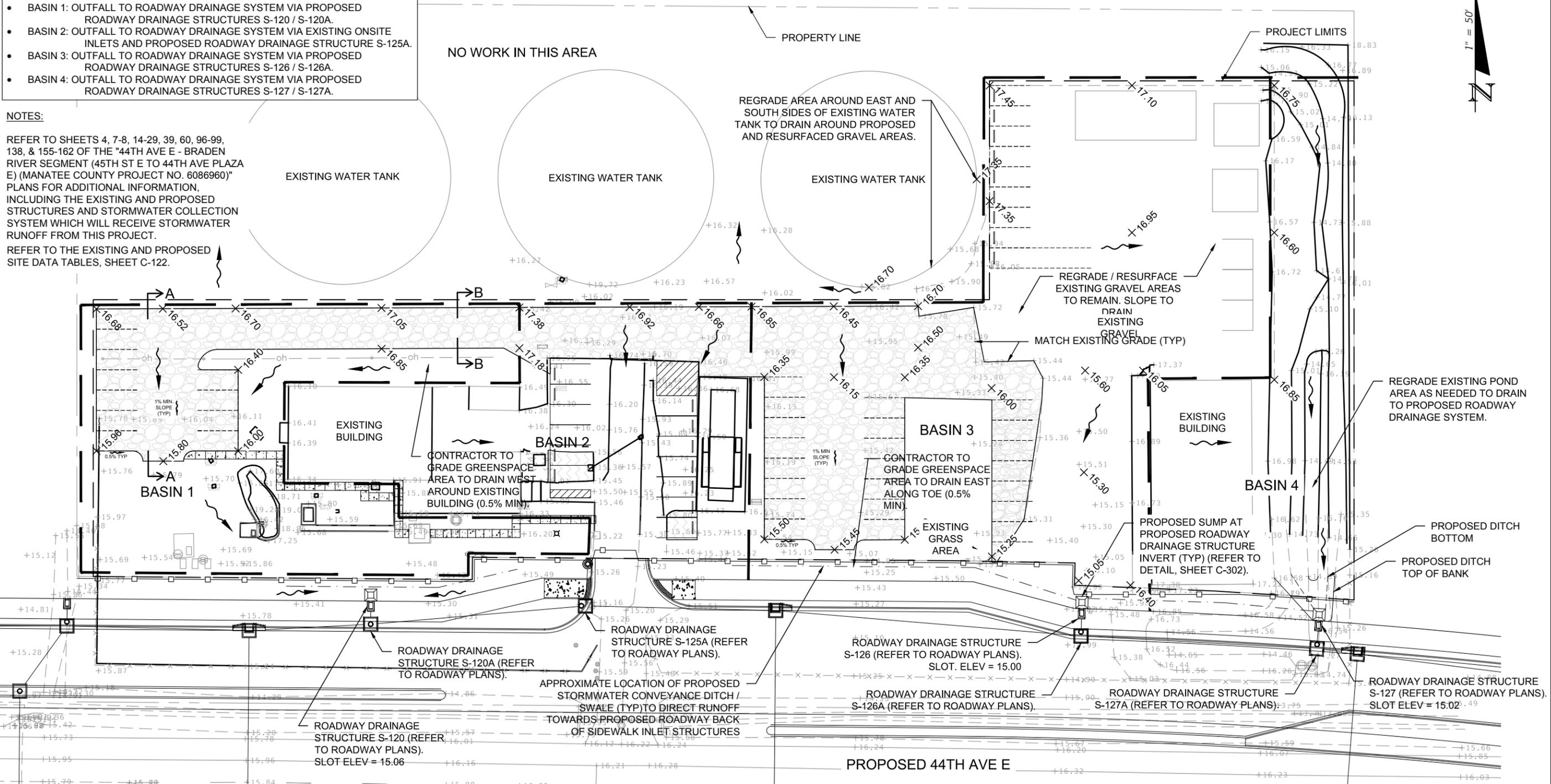
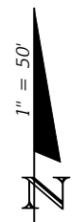


PROPOSED DRAINAGE SUMMARY TABLE

- BASIN 1: OUTFALL TO ROADWAY DRAINAGE SYSTEM VIA PROPOSED ROADWAY DRAINAGE STRUCTURES S-120 / S-120A.
- BASIN 2: OUTFALL TO ROADWAY DRAINAGE SYSTEM VIA EXISTING ONSITE INLETS AND PROPOSED ROADWAY DRAINAGE STRUCTURE S-125A.
- BASIN 3: OUTFALL TO ROADWAY DRAINAGE SYSTEM VIA PROPOSED ROADWAY DRAINAGE STRUCTURES S-126 / S-126A.
- BASIN 4: OUTFALL TO ROADWAY DRAINAGE SYSTEM VIA PROPOSED ROADWAY DRAINAGE STRUCTURES S-127 / S-127A.

NOTES:

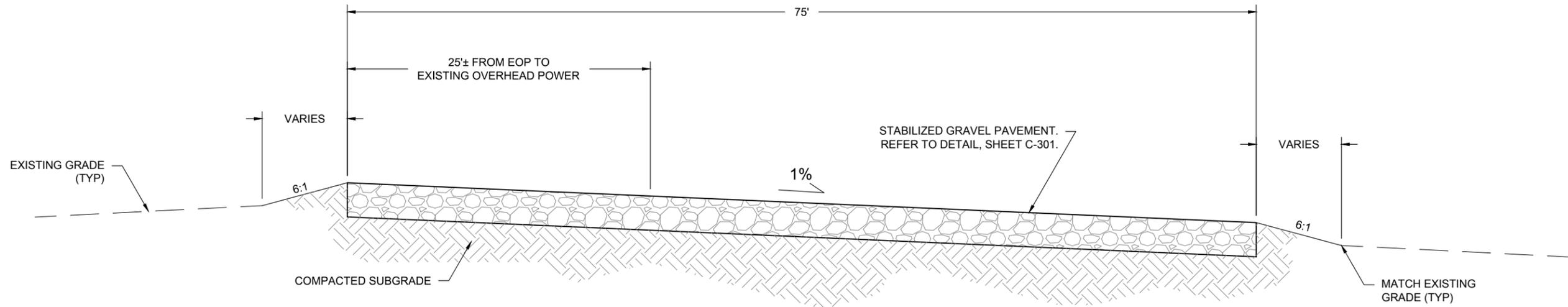
REFER TO SHEETS 4, 7-8, 14-29, 39, 60, 96-99, 138, & 155-162 OF THE "44TH AVE E - BRADEN RIVER SEGMENT (45TH ST E TO 44TH AVE PLAZA E) (MANATEE COUNTY PROJECT NO. 6086960)" PLANS FOR ADDITIONAL INFORMATION, INCLUDING THE EXISTING AND PROPOSED STRUCTURES AND STORMWATER COLLECTION SYSTEM WHICH WILL RECEIVE STORMWATER RUNOFF FROM THIS PROJECT.
REFER TO THE EXISTING AND PROPOSED SITE DATA TABLES, SHEET C-122.



LEGEND	
	DEMO AND CLEARING LIMITS
	GRAVEL REGRADING / RESURFACING LIMITS
	ASPHALT MILLING AND RESURFACING LIMITS
	PROPOSED GRAVEL ROAD AND PARKING
	PROPOSED ASPHALT PAVEMENT
	PROPOSED PARKING (STRIPED)
	PROPOSED PARKING (UNSTRIPED)
	PROJECT LIMITS
	PROPOSED DRAINAGE PATTERN
	PROPOSED ELEVATION
	EXISTING ELEVATION
	DRAINAGE BASIN

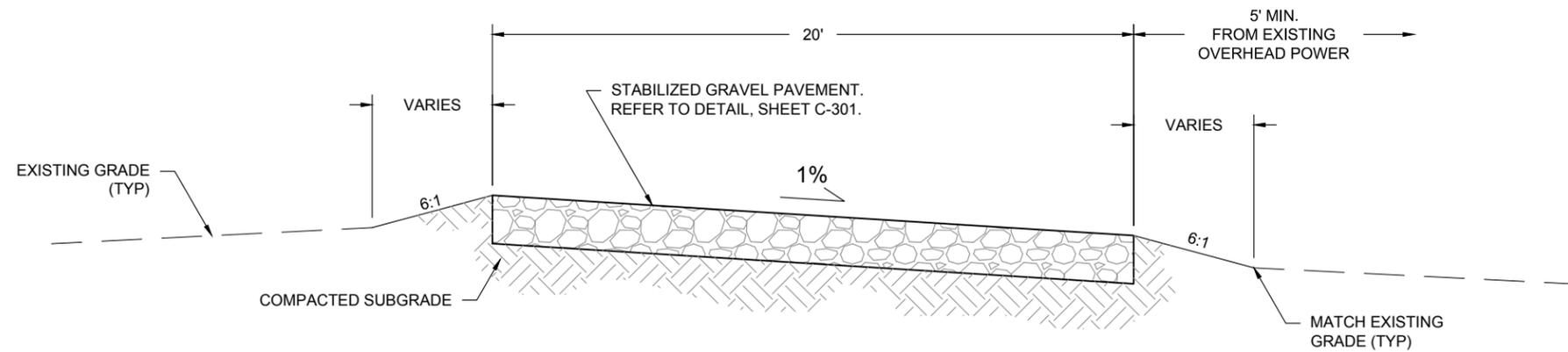
COUNTY PROJECT NO. 6086960 - MANATEE COUNTY
 44TH AVE E - BRADEN RIVER SEGMENT (45TH ST E TO 44TH AVE PLAZA E)
 AECOM PROJECT NO. 60581688

DESIGNED BY	AS NOTED	DESIGNED BY	DENNIS W. SYRJA, P.E. P.E. NO. 43423	DATE	6/4/2019	 PUBLIC WORKS DEPARTMENT ENGINEERING SERVICES 1022 26th Avenue East, Bradenton, FL 34208 Fezzuoglio, Gerry	DESIGN ENGINEER	DENNIS W. SYRJA, P.E.	GRADING AND DRAINAGE PLAN	SHEET NO.	C-123
DRAWN BY	GF	DRAWN BY	AECOM TECHNICAL SERVICES, INC. 7650 WEST COURTNEY CAMPBELL CAUSEWAY TAMPA, FL 33607-1462 (813) 286-1711	PROJECT NO.	6086960		FL. LICENSE NO.	43423			
CHECKED BY	MJR	CHECKED BY	DWS	CERTIFICATE OF AUTHORIZATION: 8115							
No.	REVISIONS	DATE	BY								



CROSS SECTION A-A (REFER TO SHEET C-123)

NTS



CROSS SECTION B-B (REFER TO SHEET C-123)

NTS

COUNTY PROJECT NO. 6086960 - MANATEE COUNTY
 44TH AVE E - BRADEN RIVER SEGMENT (45TH ST E TO 44TH AVE PLAZA E)
 AECOM PROJECT NO. 60581688

SCALE	AS NOTED	DESIGNED BY	DENNIS W. SYRJA, P.E. P.E. NO. 43423
		DRAWN BY	AECOM TECHNICAL SERVICES, INC. 7650 WEST COURTNEY CAMPBELL CAUSEWAY TAMPA, FL 33607-1462 (813) 286-1711
		CHECKED BY	CERTIFICATE OF AUTHORIZATION: 8115
No.	REVISIONS	DATE	BY

DATE

6/4/2019

PROJECT NO.

6086960



PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

Fezzuoglio, Gerry

DESIGN ENGINEER

DENNIS W. SYRJA,
P.E.

FL. LICENSE NO.

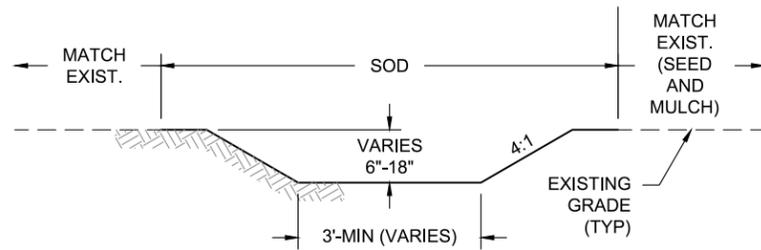
43423

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CROSS-SECTIONS

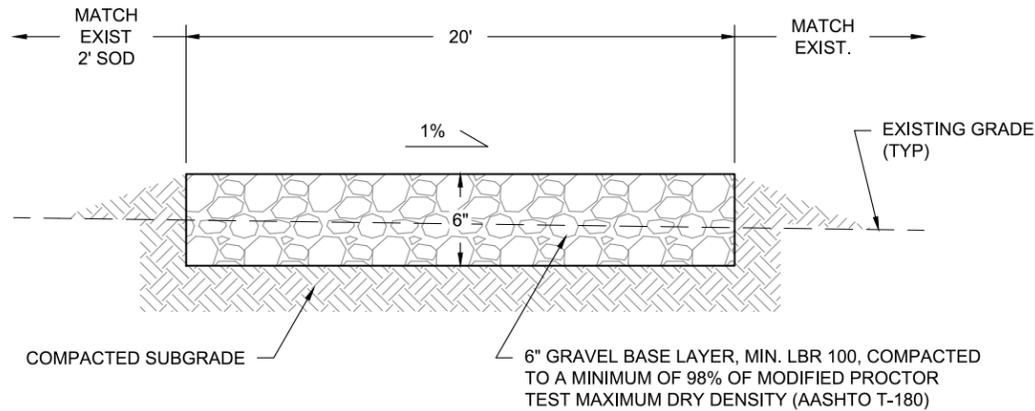
SHEET NO.

C-201



TYPICAL SWALE DETAIL

NTS

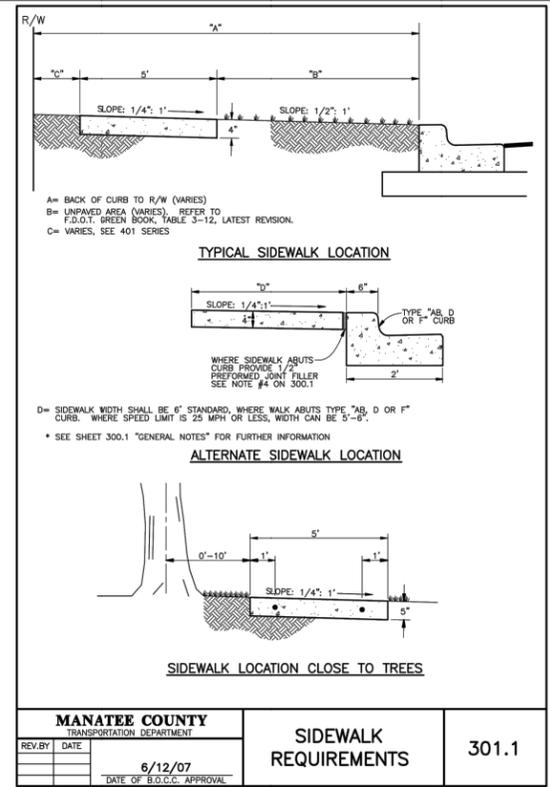


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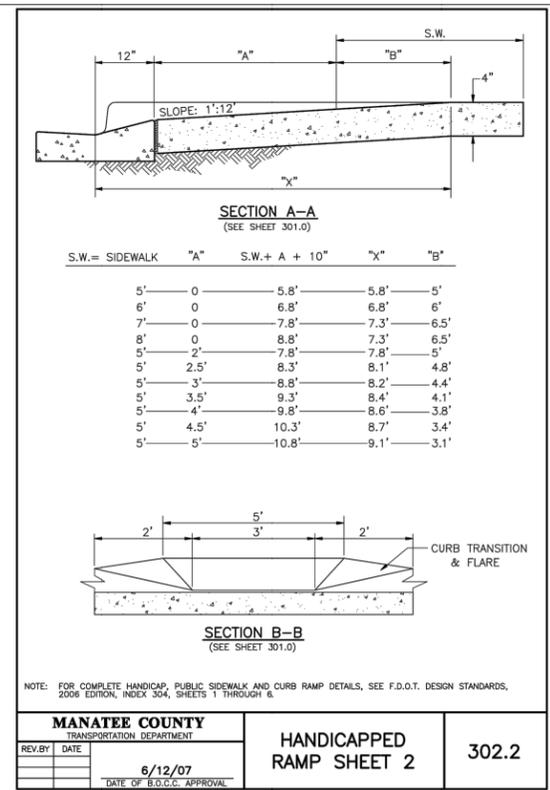
1. ALL MATERIALS USED IN PAVEMENT CONSTRUCTION SHALL COMPLY WITH THE LATEST EDITION OF THE FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, INCLUDING, BUT NOT LIMITED TO, SECTIONS 200/204 AND 901.
2. THE SUBGRADE SOILS SHALL BE COMPACTED TO 95% OF MODIFIED PROCTOR TEST MAXIMUM DRY DENSITY (ASTM D 1557) WITH A DESIGN LBR VALUE OF 40 (AFTER STABILIZATION).

TYPICAL STABILIZED GRAVEL PAVEMENT DETAIL

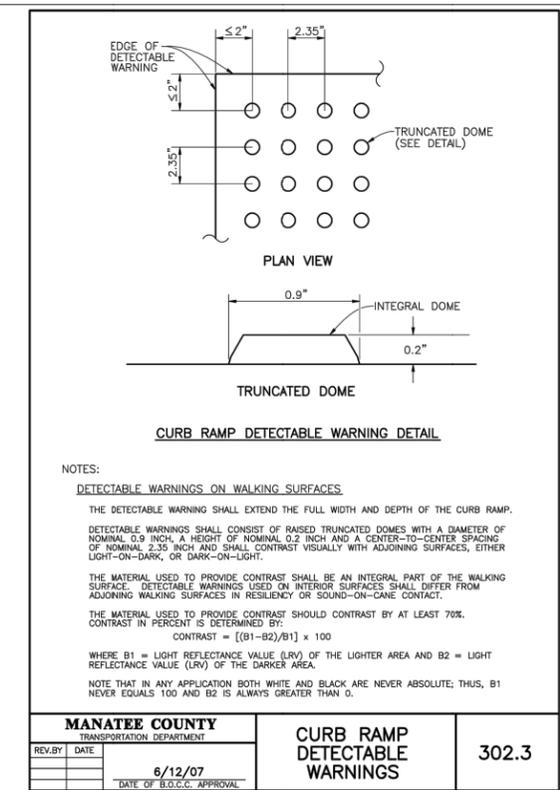
NTS



MANATEE COUNTY TRANSPORTATION DEPARTMENT		SIDEWALK REQUIREMENTS	301.1
REV. BY	DATE		
	6/12/07		
	DATE OF B.O.C.C. APPROVAL		



MANATEE COUNTY TRANSPORTATION DEPARTMENT		HANDICAPPED RAMP SHEET 2	302.2
REV. BY	DATE		
	6/12/07		
	DATE OF B.O.C.C. APPROVAL		



MANATEE COUNTY TRANSPORTATION DEPARTMENT		CURB RAMP DETECTABLE WARNINGS	302.3
REV. BY	DATE		
	6/12/07		
	DATE OF B.O.C.C. APPROVAL		

COUNTY PROJECT NO. 6086960 - MANATEE COUNTY
44TH AVE E - BRADEN RIVER SEGMENT (45TH ST E TO 44TH AVE PLAZA E)
AECOM PROJECT NO. 60581688

SCALE	NTS	DESIGNED BY	DENNIS W. SYRJA, P.E. P.E. NO. 43423
DESIGNED BY	GF	DRAWN BY	AECOM TECHNICAL SERVICES, INC. 7650 WEST COURTNEY CAMPBELL CAUSEWAY TAMPA, FL 33607-1462 (813) 286-1711
CHECKED BY	MJR		CERTIFICATE OF AUTHORIZATION: 8115
	DWS		

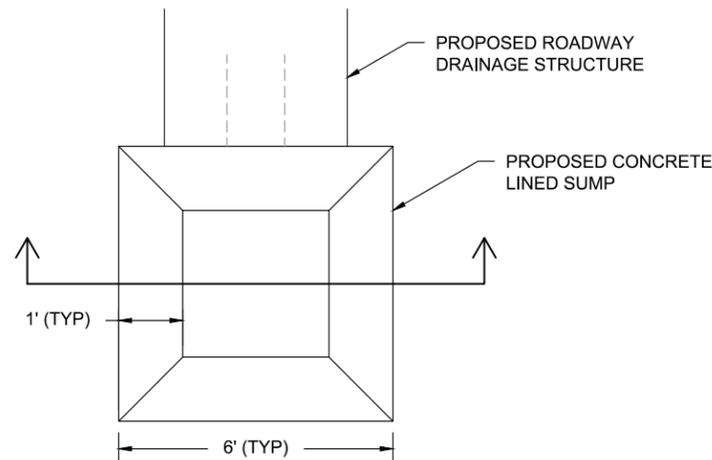
DATE	6/4/2019
PROJECT NO.	6086960



DESIGN ENGINEER	DENNIS W. SYRJA, P.E.
FL. LICENSE NO.	43423

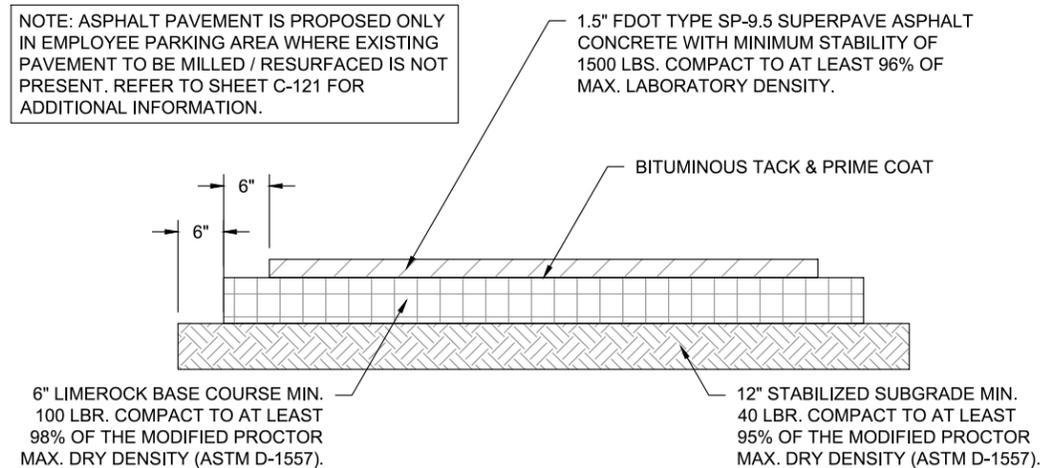
DETAILS

SHEET NO.
C-301



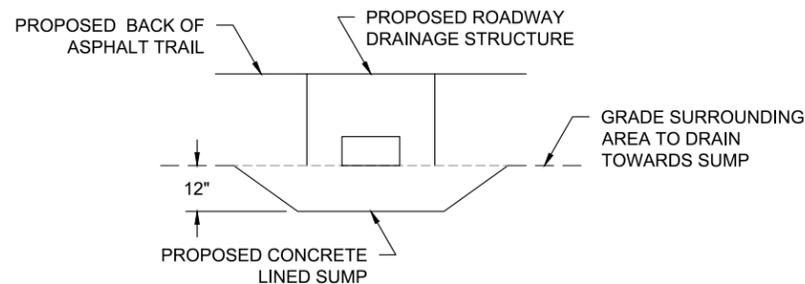
PLAN VIEW

NOTE: ASPHALT PAVEMENT IS PROPOSED ONLY IN EMPLOYEE PARKING AREA WHERE EXISTING PAVEMENT TO BE MILLED / RESURFACED IS NOT PRESENT. REFER TO SHEET C-121 FOR ADDITIONAL INFORMATION.



ASPHALT PAVEMENT DETAIL

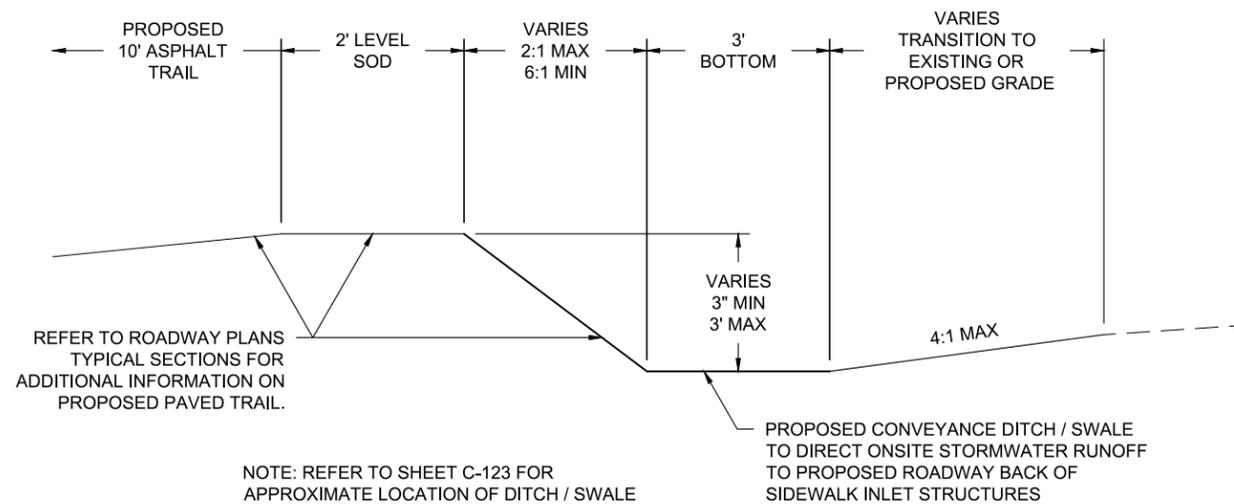
NTS



TYPICAL SECTION

TYPICAL BACK OF SIDEWALK SUMP DETAIL

NTS



NOTE: REFER TO SHEET C-123 FOR APPROXIMATE LOCATION OF DITCH / SWALE

TYPICAL BACK OF TRAIL TRANSITION AND STORMWATER CONVEYANCE DETAIL

NTS

COUNTY PROJECT NO. 6086960 - MANATEE COUNTY
44TH AVE E - BRADEN RIVER SEGMENT (45TH ST E TO 44TH AVE PLAZA E)
AECOM PROJECT NO. 60581688

No.	REVISIONS	DATE	BY

SCALE	NTS	DESIGNED BY	DENNIS W. SYRJA, P.E. P.E. NO. 43423	DATE	6/4/2019
		DRAWN BY	AECOM TECHNICAL SERVICES, INC. 7650 WEST COURTNEY CAMPBELL CAUSEWAY TAMPA, FL 33607-1462 (813) 286-1711	PROJECT NO.	6086960
		CHECKED BY	MJR		
			DWS		
			CERTIFICATE OF AUTHORIZATION: 8115		

PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208
Fezzuoglio, Gerry

DESIGN ENGINEER	DENNIS W. SYRJA, P.E.
FL. LICENSE NO.	43423

DETAILS

SHEET NO.	C-302
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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:

*011011 TO INCLUDE BIBB REMOVAL AND CAP, DISMANTLE AND RELOCATE EXISTING GATE

*01201 TO INCLUDE DOWNSPOUTS CONNECTION TO POND

*053074 TO INCLUDE FILTER FABRIC UNDER THE GRAVEL

COUNTY PROJECT NO. 6086960 - MANATEE COUNTY
44TH AVE E - BRADEN RIVER SEGMENT (45TH ST E TO 44TH AVE PLAZA E)
AECOM PROJECT NO. 60581688

No.	REVISIONS	DATE	BY	SCALE	DESIGNED BY	DATE	 PUBLIC WORKS DEPARTMENT ENGINEERING SERVICES 1022 26th Avenue East, Bradenton, FL 34208 Fezzuoglio, Gerry	DESIGN ENGINEER	<p style="text-align: center;">QUANTITIES</p>	SHEET NO.
				N/A	DENNIS W. SYRJA, P.E.	6/12/2019		DENNIS W. SYRJA, P.E.		C-401
				GF	AECOM TECHNICAL SERVICES, INC.	PROJECT NO.		FL. LICENSE NO.		
				MJR	7650 WEST COURTNEY CAMPBELL CAUSEWAY TAMPA, FL 33607-1462 (813) 286-1711	6086960		43423		
				DWS	CERTIFICATE OF AUTHORIZATION: 8115					

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