#### CONTRACT PLAN COMPONENTS

ROADWAY PLANS SIGNING & MARKING PLANS SIGNALIZATION PLANS

## STATE OF FLORIDA

# COUNTY OF MANATEE

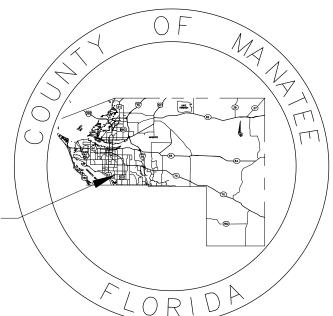
PLANS FOR PROPOSED

WHITFIELD AVENUE

AT SEMINOLE GULF COAST RAILROAD

BRADENTON, FLORIDA

LOCATION OF PROJECT



#### INDEX OF ROADWAY PLANS

<u>DESCRIPTION</u>
KEY SHEET
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GENERAL DETAILS
EXISTING SURVEY

MANATEE COUNTY PROJECT No: 307-6098560

MAY 2020



\_ END PROJECT STA. 15+00.00 90% PLANS

WITH NO UTILITY COORDINATION



BEGIN PROJECT STA. 9+60.00

> N.T.S PROJECT LENGTH IS BASED ON ₽ OF CONSTRUCTION

#### GOVERNING DESIGN STANDARDS:

FLORIDA DEPARTMENT OF TRANSPORTATION, FY 2017-18 DESIGN STANDARDS eBOOK (DSeB) AND APPLICABLE DESIGN STANDARDS REVISIONS (DSRs) AT THE FOLLOWING WEBSITE:

http://www.fdot.gov/rddesign/DesignStandards/Standards.shtm

#### GOVERNING STANDARD SPECIFICATIONS:

FLORIDA DEPARTMENT OF TRANSPORTATION, JANUARY 2018 STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AT THE FOLLOWING WEBSITE:

http://www.fdot.gov/programmanagement/Implemented/SpecBooks

LENGTH OF PROJECT							
	LINEAR FEET	MILES					
ROADWAY	270.00	0.05					
EXCEPTIONS	0.00	0.00					
GROSS LENGTH OF PROJECT	270.00	0.05					

K	KEY SHEET REVISIONS							
DATE	DESCRIPTION							

Know what's below Call before you dic

ROADWAY PLANS
PROFESSIONAL OF RECORD: GRIGORY BERIKHMAN, P.E.

FLORIDA P.E. # 76896

CONSTRUCTION	FISCAL	SHEET
CONTRACT NO.	YEAR	NO.
<i>T0000</i>	19	01

LINE	FDOT ITEM		EST.	
NO.	NO.	DESCRIPTION	QTY	U/M
	101-1	MOBILIZATION	1.00	LS
2.	102-1	MAINTENANCE OF TRAFFIC	1.00	LS
		SUBTOTAL MOBILIZATION AND MOT		
3.	104-10-3	SEDIMENT BARRIER	900	LF
1	104-11	FLOATING TURBIDITY BARRIER	40	LF
5.	110-2-1	CLEARING & GRUBBING	0.55	AC
6.	120-1	REGULAR EXCAVATION	240	CY
7.	120-4	SUBSOIL EXCAVATION	50	CY
	120-6	EMBANKMENT (REGULAR)	160	CY
	160-MC	12" TYPE B STABILIZATION (LBR 60)	110	SY
	285-701	4" OF OPTIONAL BASE GROUP 1	140	SY
11.	285-709	10" OF OPTIONAL BASE GROUP 9	85	SY
12.	327-70-1	MILLING EXIST ASPH PAVT, 1 " AVG DEPTH	460	SY
	327-70-4	MILLING EXIST ASPH PAVT, 3 " AVG DEPTH	320	SY
	334-MC	TYPE S-I ASPHALT CONCRETE (INCL TACK COAT)	87	TN
	337-MC	TYPE S-III ASPHALT CONCRETE (INCL TACK COAT)	26	TN
	425-MC	JUNCTION BOX (TRAFFIC BEARING)	3	EA
1		PIPE STORM SEWER CULV (RCP)(18")	50	LF
		PIPE STORM SEWER CULV (RCP)(24")	80	LF
		PIPE STORM SEWER CULV (RCP)(36")	58	LF
		MITERED END SECTION- RCP-ROUND, 18" CD	1	EA
		MITERED END SECTION- RCP-ROUND, 24" CD	2	EA
		MITERED END SECTION- RCP-ROUND, 36" CD	3	EA
	520-2-4	TYPE D CURB	90	LF
	522-1	SIDEWALK CONCRETE 4"	180.00	SY
	527-2	DETECTABLE WARNINGS	44	SF
	530-3-4	RIP RAP-RUBBLE	15	TN
27.	570-1-2	PERFORMANCE TURF (BAHIA SOD)	1,400.00	SY
		SUBTOTAL ROADWAY		
28.		SIGNING AND PAVEMENT MARKING	1.00	LS

REVISION	DESCRIPTION	DATE	PROJECT #	307-6098560	SURVEYED	ZNS	02/2019
1	ADDITIONAL STRUCTURE ON NE OUADRANT	08/07/19		507 0050500			. ,
		20,21,72	SURVEY #	0577-0036	DESIGNED	GB	02/2019
			SEC./TWN./RGE	19 & 30/35S/18E	DRAWN	KHL	02/2019
			SCALE	1"=20'	CHECKED	XXX	XX/XXXX

GRIGORY BERIKHMAN, P.E. FLORIDA P.E. # 76896

Signature & Date

- ALL CONSTRUCTION ACTIVITIES SHALL BE COORDINATED WITH THE PROJECT MANAGEMENT DIVISION.
  THE PROJECT MANAGER IS: ANTHONY BENITEZ AND CAN BE REACHED AT (941) 708-7450; EXT. 7333.
- 2. SITE VISITS ARE MANDATORY FOR ALL BIDDERS. THESE SITE VISITS CAN BE ARRANGED THROUGH THE
- 3. ALL CONSTRUCTION ON THIS PROJECT SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF MANATEE COUNTY UTILITY AND TRANSPORTATION STANDARDS AND/OR FDOT "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" UNLESS OTHERWISE INDICATED ON THE PLANS.
- 4. VERTICAL CONTROL FOR THIS PROJECT WAS ESTABLISHED BY A MINIMUM OF TWO REFERENCE BENCHMARKS DESCRIBED ON THE "NORTH AMARICAN VERTICAL DATUM OF 1988", (NAVD '88).
- 5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MEETING ALL CONDITIONS AND REQUIREMENTS OF ALL PERMITS AND ALL COVERNING FEDERAL, STATE, AND LOCAL AGENCIES. THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL REQUIRED PERMITS THAT ARE NOT PROVIDED IN THE BID DOCUMENTS, AT NO ADDITIONAL COST TO THE OWNER.
- 6. THE INFORMATION PROVIDED IN THESE PLANS IS SOLELY TO ASSIST THE CONTRACTOR IN ASSESSING THE NATURE AND EXTENT OF THE CONDITIONS WHICH MAY BE ENCOUNTERED DURING THE COURSE OF WORK, ALL CONTRACTORS ARE DIRECTED, PRIOR TO BIDDING, TO CONDUCT WHATEVER INVESTIGATION THEY MAY DEM INCESSARY TO ARRIVE AT THEIR OWN CONCLUSIONS REGARDING THE ACTUAL CONDITIONS THAT WILL BE ENCOUNTERED, AND UPON WHICH THEIR BIDS WILL
- 7. THE CONTRACTOR SHALL REVIEW AND VERIFY ALL DIMENSIONS ON THE PLANS AND REVIEW ALL FIELD CONDITIONS THAT MAY AFFECT CONSTRUCTION. SHOULD DISCREPANCIES OCCUR, THE CONTRACTOR SHALL NOTIFY THE ENGINEER TO OBTAIN THE ENGINEER'S CLARIFICATION BEFORE COMMENCING WITH CONSTRUCTION
- 8. AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION, THE CONTRACTOR SHALL CONTACT SUNSHINE STATE ONE CALL OF FLORIDA AT 1-800-432-4770 OR THE NATIONAL 811 ONE CALL NUMBER WHEN APPLICABLE FOR UTILITY LOCATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH ALL UTILITIES FOR THE POSSIBLE RELOCATION OR THE TEMPORARY MOVEMENT OF ANY EXISTING UTILITIES WITHIN THE RIGHTS-OF-WAY.
- 9. ALL STATIONS AND OFFSETS REFER TO BASELINE OF CONSTRUCTION, UNLESS OTHERWISE NOTED.
- 10. THE CONSTRUCTION LENGTHS IN THESE PLANS ARE APPROXIMATE. ACTUAL LIMITS MAY BE SET IN THE FIELD AS DIRECTED BY THE ENGINEER.
- 11. SEPARATE PAYMENT SHALL BE MADE ONLY FOR THE ITEMS OF WORK LISTED AND IDENTIFIED BY APPROPRIATE PAY ITEM ON THE BID FORM. THE COST OF ANY RELATED WORK NOT SPECIFICALLY IDENTIFIED, BUT WHICH IS REQUIRED FOR SATISFACTORY COMPLETION OF THE WORK, SHALL BE CONSIDERED TO BE INCLUDED IN THE CONTRACT PRICE FOR THE
- 12. THE CONTRACTOR SHALL HAVE A FOREMAN, OR RESPONSIBLE PARTY, ON SITE AT ALL TIMES WHEN WORK IS BEING PERFORMED. ALL WORKERS ON THE JOB SITE WILL BE COURTEOUS TO THE PUBLIC AT ALL TIMES, AND SHALL REFER ANY QUESTIONS OR CONCERNS TO THE CONTRACTOR'S FOREMAN OR THE COUNTY INSPECTOR. THE FO SPEAK AND UNDERSTAND ENGLISH AND SHALL BE AVAILABLE AT ALL TIMES FOR TIMELY RESOLUTION OF
- 13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COMPLETE COORDINATION OF CONSTRUCTION SCHEDULING BETWEEN CONTRACTOR AND ALL UTILITY AGENCIES.
  - JOTE:
    THIS INCLUDED MEETING WITH UTILITY AGENCIES PRIOR TO THE PRE-CONSTRUCTION
    CONFERENCE TO ADJUST THEIR SCHEDULES TO COINCIDE WITH THE CONTRACTORS
    CONSTRUCTION SCHEDULE. (REFERENCE CONTRACT DOCUMENTS)
- 14. ANY DAMAGE TO STATE, COUNTY, OR LOCAL ROADS CAUSED BY THE CONTRACTOR'S HAULING OR EXCAVATION EQUIPMENT SHALL BE REPARED BY THE CONTRACTOR TO THE SATISFACTORY OF THE COUNTY PROJECT MANAGER. PAYMENT SHALL NOT BE MADE FOR THIS WORK.
- 15. ALL CONSTRUCTION WITHIN FDOT RIGHT-OF-WAY IS TO BE IN ACCORDANCE WITH CURRENT FDOT STANDARD SPECIFICATIONS FOR ROADWAY CONSTRUCTION AND THE DESIGN STANDARDS.
- 16. ALL SIGNING, STRIPING AND RPM PLACEMENT WITHIN THE FDOT RIGHT-OF-WAY IS TO BE IN ACCORDANCE WITH FDOT STANDARD INDEX 17346.
- 17. MONUMENTATION HORIZONTAL CONTROL, BENCHMARKS, ETC. SET BY THE CONSULTANT, SHALL HAVE THEIR COMPANY IDENTIFICATION ON THE TAG, DISK OR CAP. AT THE COMPLETION OF THE PROJECT, SURVEY CONTROL, BENCHMARKS, PROPERTY CORNERS, ETC. LOST DUE TO CONSTRUCTION SHALL BE RESET.

#### SAFETY

- 18. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLIANCE WITH THE FLORIDA TRENCH SAFETY ACT, 90-96, LAWS OF FLORIDA EFFECTIVE OCTOBER 1, 1990 AND THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION EXCAVATION SAFETY STANDARDS, 20 CFR 1926.650, SUBPART P, AS AMENDED. THE CONTRACTOR SHALL INCLUDE IN THE TOTAL BID PRICE ALL COSTS FOR COMPLIANCE WITH THESE REGULATIONS.
- 19. THE CONTRACTOR SHALL USE SHEET PILING, SHEETING, BRACING, ETC., AS REQUIRED IN ALL EXCAVATION AREAS AND
- 20. THE CONTRACTOR SHALL USE ALL NECESSARY SAFETY PRECAUTIONS TO AVOID CONTACT WITH OVERHEAD AND UNDERGROUND UTILITIES, POWER LINES, ETC.
- 21. THESE DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY. THIS EXCLUSION DOES NOT ALLEVIATE THE CONTRACTOR FOR PROVIDING A CONTINUOUS SAFE WORKSPACE.

- 22. CONTRACTOR IS RESPONSIBLE FOR INSTALLATION ALL SEDIMENT AND EROSION CONTROL (SEC) DEVICES (E.G., BARRIERS, SEMMENT TRAFS/BASINS, VEGETATIVE BUFFERS, ETC.) AS SPECIFIED IN THE FINAL APPROVED PLANS FOR THE PROJECT.
  CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL SEC DEVICES UTILIZED DURING THE PROJECT, AS WELL AS
  INSTALLATION & MAINTENANCE OF ANY ADDITIONAL MEASURES DEEMED NECESSARY DURING PROJECT IMPLEMENTATION, TO
  PREVENT EROSION AND OFF-SITE SEDIMENT MIGRATION. CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR REMOVAL AND PROPER
  DISPOSAL OF ALL SEC DEVICES UPON CONCLUSION OF THE PROJECT, AND UPON ADEQUATE STABILIZATION OF DISTURBED SOILS.
- 23. THE CONTRACTOR SHALL PROVIDE AND INSTALL ALL NECESSARY STORM WATER, EROSION, AND SEDIMENTATION CONTROL MEASURES IN ACCORDANCE WITH THE FOEP "FLORIDA STORM WATER, EROSION AND SEDIMENTATION CONTROL INSPECTOR'S MANUAL". IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO CONTROL AND PREVENT EROSION AND TRANSPORT OF SEDIMENT TO SURFACE DRAINS AND TO DITCHES DURING CONSTRUCTION.
- 24. STOCKPILES SHALL BE PROTECTED AT ALL TIMES BY ON-SITE DRAINAGE CONTROLS WHICH PREVENT EROSION OF THE STOCKPILED MATERIAL. CONTROL OF DUST FROM SUCH STOCKPILES IS REQUIRED, DEPENDING UPON THEIR LOCATION AND THE EXPECTED LENGTH OF TIME THE STOCKPILES WILL BE PRESENT. IN NO CASE SHALL ANY STOCKPILED MATERIAL
- REMAIN AFTER THIRTY (30) CALENDAR DAYS.

  25. STORM WATER INLETS IN THE VICINITY OF THE PROJECT SHALL BE PROTECTED BY SEDIMENT TRAPS SUCH AS SECURED HAY BALES, SOD, STONE, ETC., WHICH SHALL BE MAINTAINED AND MODIFIED AS REQUIRED BY CONSTRUCTION PROGRESS, AND WHICH MUST BE APPROVED BY THE ENGINEER BEFORE INSTALLATION. THIS WILL BE MAINTAINED TO PREVENT DEGRADATION OF THE WATERS OF THE COUNTY AND STATE
- 26 SEDIMENT BASINS AND TRAPS PERIMETER BERMS SEDIMENT BARRIERS VEGETATIVE BLIEFERS AND OTHER MEASURES SEDIMENT BASINS AND TRAPS, PERIMETER BERMS, SEDIMENT BARRIERS, VEGETATIVE BUFFERS, AND OTHER MEASURES INTENDED TO TRAP SEDIMENT AND/OF PREVENT THE TRANSPORT OF SEDIMENT ONTO ADJACENT PROPERTIES, OR INTO EXISTING BODIES OF WATER, MUST BE INSTALLED, CONSTRUCTED, OR IN THE CASE OF VEGETATIVE BUFFERS, PROTECTED FROM DISTURBANCE, AS A FIRST STEP IN THE LAND ALTERATION PROCESS. SUCH SYSTEMS SHALL BE FULLY OFERATIVE BEFORE ANY OTHER DISTURBANCE OF THE SITE BEGINS. EARTHEN STRUCTURES INCLUDING BUT NOT LIMITED TO BERMS EARTH FILTERS, DAMS OR DIKES SHALL BE STABILIZED AND PROTECTED FROM DRAINAGE DAMAGE OR EROSION WITHIN ONE (1) WEEK OF INSTALLATION.
- 27, ALL SWALES, DITCHES, AND CHANNELS LEADING FROM THE SITE SHALL BE PROTECTED FROM SILITATION AND FROSION DURING CONSTRUCTION AND BE SODDED WITHIN THREE (3) DAYS OF EXCAVATION

- 28. SOIL DISPLACED BY CONSTRUCTION WILL BE REMOVED. EROSION CONTROL SHALL BE IMPLEMENTED IN AREAS WHICH ARE CONSIDERED ENVIRONMENTALLY SENSITIVE. EROSION CONTROL SYSTEMS SHALL BE REQUIRED FOR ALL WORK WITHIN JURISDICTIONAL AREAS. THESE SYSTEMS MAY INCLUDE STAKED HAY BALES, SILT SCREENS, FILTER FABRIC, AND TURBIDITY
- 29 ALL FROSION AND POLLUTION CONTROL DEVICES SHALL BE CHECKED REGULARLY ESPECIALLY AFTER FACH RAINFALL AND
- 30. THE CONTRACTOR SHALL NOT ENTER UPON OR IN ANY WAY ALTER WETLAND AREAS THAT MAY BE ON OR NEAR THE CONSTRUCTION SITE. ALL WORK IN THE VICINITY OF OPEN WATER AND/OR WETLANDS IS TO BE PERFORMED IN COMPLIANCE WITH THE ENVIRONMENTAL REGULATIONS AND/OR PERMITS FOR THE SITE. THE CONTRACTOR WILL BE RESPONSIBLE FOR ANY FINES RESULTING FROM HIS VIOLATION OF ANY REGULATIONS OR PERMIT CONDITIONS.
- 31, FOR MORE INFORMATION, SEE THE EROSION CONTROL DETAIL SHEET INCLUDED IN THE PLANS.

- 32. ALL CONSTRUCTION ACTIVITIES SHALL BE LIMITED TO WITHIN THE MANATEE COUNTY/FDOT RIGHT-OF-WAY AND/OR EASEMENTS SHOWN ON THE DRAWINGS.
  33. THE CONTRACTOR SHALL EMPLOY A LAND SURVEYOR REGISTERED IN THE STATE OF FLORIDA TO REFERENCE AND RESTORE PROPERTY CORNER MONUMENTS, PINS, AND LANDMARKS THAT MAY BE DISTURBED BY CONSTRUCTION AT NO ADDITIONAL
- 34. THE CONTRACTOR, PRIOR TO CONSTRUCTION AND RESTRICTING ANY TRAFFIC, MUST OBTAIN A RIGHTS-OF-WAY USE PERMIT THE CONTRACTOR, PRIOR TO CONSTRUCTION AND RESTRICTING ANY TRAFFIC, MUST OBTAIN A RIGHTS-OF-WAY USE PERMIT AND A TRAFFIC CONTROL PLAN. THE CONTRACTOR SHALL OBTAIN ALL REQUIRED PERMITS FROM OTHER GOVERNMENTAL AGENCIES HAVING RELEVANT JURISDICTION. ALL MAINTENANCE AND PROTECTION OF TRAFFIC SHALL BE IN ACCORDANCE WITH THE APPLICABLE REQUIREMENTS OF THE CURRENT FLORIDA DEPARTMENT OF TRANSPORTATION "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD). A TRAFFIC CONTROL PLAN SHALL BE SUPPLIED BY THE CONTRACTOR AT THE PRE-CONSTRUCTION MEETING.
- 35. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING ALL DAMAGED STORM WATER STRUCTURES, PIPING, ENTRANCE PIPE AND HEADWALLS, THAT ARE TO REMAIN, WHETHER SHOWN ON THE PLANS OR NOT.
- 36. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ESTABLISH IN THE FIELD THE RIGHT-OF-WAY LINES, BASE LINES, BENCH MARKS (ELEV.), CENTER LINES, AND STATIONING AS REQUIRED TO CONSTRUCT THIS PROJECT. ROADWAY PLANS AND PROPOSED DESIGN ARE BASED ON TOPOGRAPHIC SURVEYS PROVIDED BY MANATEE COUNTY PROJECT MANAGEMENT AND ZOLLAR NAJJAR & SHROYER UNDER COUNTY PROJECT NO'S 334-6001060 AND 319-6045661. REFER TO THE ORIGINAL SIGNED AND SEALED SURVEY CONTROL SHEETS IN THE PROJECT FILE.
- 37. THE CONTRACTOR SHALL COORDINATE THE CUTTING OF DRIVEWAYS WITH THE PROPERTY OWNER PRIOR TO CUT. ALL DRIVEWAYS WILL BE IN PASSABLE CONDITION AT THE END OF THE WORK DAY AND FULLY RESTORED PER PLAN. THE CONTRACTOR SHALL COORDINATE WITH THE AFFECTED UTILITY COMPANY FOR THE ADJUSTMENT OF ANY EXISTING UTILITIES AND STRUCTURES IN ORDER TO MATCH THE PROPOSED ELEVATIONS AND ALIGNMENTS.
- 38. A RIGHT OF ENTRY AGREEMENT SHALL BE OBTAINED BY THE PROJECT MANAGER FROM THE PROPERTY OWNER BEFORE ANY DRIVEWAY CONSTRUCTION WORK IS DONE OUTSIDE OF THE RIGHT-OF-WAY OR EASEMENT.

- 39. LOCATIONS, ELEVATIONS AND DIMENSIONS OF EXISTING UTILITIES, STRUCTURES AND OTHER FEATURES ARE SHOWN TO THE BEST INFORMATION AVAILABLE AT THE TIME OF PREPARATION OF THESE PLANS BUT DO NOT PURPORT TO BE ABSOLUTELY CORRECT. THERE MAY BE OTHER IMPROVEMENTS, UTILITIES, ETC. WHICH ARE WITHIN THE PROJECT AREA AND WHICH HAVE NOT BEEN LOCATED OR IDENTIFIED, MAY NOT BE IN THE EXACT LOCATION SHOWN OR RELOCATIONS. THE PREPARATION OF THESE PLANS. THE CONTRACTOR SHALL VERIFY, PRIOR TO CONSTRUCTION, THE LOCATIONS, AND DIMENSIONS OF ALL EXISTING UTILITIES STRUCTURES AND OTHER FEATURES (WHETHER OR NOT SHOWN ON THE PLANS) THAT MAY AFFECT HIS WORK, ALL EXISTING UTILITIES TO BE EXTENDED, CROSSED OR CONNECTION POINTS SHALL BE EXPOSED PRIOR TO CONSTRUCTION TO VERIFY LOCATION AND ELEVATION, ANY DISCREPANCIES OR CONFLICTS FOUND SHALL BE BROUGHT TO THE ENCINEER'S ATTENTION FOR RESOLUTION. UTILITIES DESIGNATED W, VH, AND WH ARE BASED ON LIMITED INVESTIGATION TECHNIQUES AND SHOULD BE CONSIDERED APPROXIMATE ONLY. THE VERIFIED LOCATIONS/ELEVATIONS APPLY ONLY AT THE POINTS SHOWN. INTERPOLATIONS BETWEEN THESE POINTS HAVE NOT BEEN VERIFIED. EXTREME CAUTION SHALL BE EXERCISED WHEN WORKING NEAR THE 24" WATERLINE.
- 40. THE CONTRACTOR SHALL PROTECT ALL EXISTING STRUCTURES, WATER AND SEWER LINES, STORM DRAINS, UTILITIES, DRIVEWAYS, SIDEWALKS, SIGNS, MAIL BOXES, FENCES, TREES, LANDSCAPING, AND ANY OTHER IMPROVEMENT OR FACILITY IN THE CONSTRUCTION AREA. THE CONTRACTOR SHALL REPAIR AND/OR REPLACE ANY DAMAGED ITEM DUE TO HIS CONSTRUCTION ACTIVITIES TO EQUAL OR BETTER THAN PRE—CONSTRUCTION CONDITIONS AT NO ADDITIONAL COST TO THE
- 41. THE CONTRACTOR SHALL USE APPROPRIATE TECHNIQUES, AS APPROVED, RECOMMENDED OR OFFERED BY FLORIDA POWER AND LIGHT TO PREVENT UNDERMINING OF POWER POLES DURING CONSTRUCTION. IF HOLDING OF POWER POLES IS RECOMMENDED OR REQUIRED BY THE UTILITY, THE CONTRACTOR SHALL COORDINATE THIS ACTIVITY WITH THE UTILITY AND BEAR ALL RELATED COSTS.
- 42. EXCEPT WHERE THE PLANS AND SPECIFICATIONS PROVIDE THAT SUCH WORK SHALL BE PERFORMED UNDER THE CONTRACT FOR THIS PROJECT. ALL UTILITIES INTERFERING WITH CONSTRUCTION SHALL BE REMOVED, RELOCATED OR ADJUSTED BY THEIR OWNERS, AT THEIR EXPENSE. THE CONTRACTOR SHALL ARRORE HIS SCHEDULE TO ALLOW UTIL OWNERS TIME FOR THE NECESSARY RELOCATION AND ADJUSTMENT OF UTILITIES AND RELATED STRUCTURES.
- 43. A FLORIDA POWER AND LIGHT SPECIAL PROVISION IS THAT THE TYPE OF EQUIPMENT USED IN THE INSTALLATION OF MAST ARMS/FOUNDATIONS, OVERHEAD/CANTILEVER SIGNS/ROUNDATIONS, AND THE MOVEMENT/INSTALLATION OF STRAIN POLES SHALL MEET THE FOLLOWING REQUIREMENTS: 1) OVERHEAD LINES SHALL STAY IN PLACE BOTH VERTICALLY AND HORIZONTALLY 2) CONTRACTOR SHALL MEET ALL APPLICABLE OSHA REQUIREMENTS (SEPARATION SHALL FOLLOW FPL GUIDELINES). ANY COST ASSOCIATED WITH THIS TYPE OF EQUIPMENT REQUIRED FOR THIS INSTALLATION IS INCLUDED IN THE RELATED PAY HEMS. PLEASE REFER TO THE SPECIAL CONDITIONS IN THE UTILITY WORK SCHEDULE AND UTILITY
- 44. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH ALL UTILITY COMPANIES FOR THE RELOCATION AND ADJUSTMENT OF ALL UTILITIES, INCLUDING, ANY EXISTING POWER POLES AND/OR UTILITY CONDUITS WITHIN RIGHT-OF-WAY
- 45. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE WITH THE APPROPRIATE PARTIES TO DETERMINE THE COUNTY'S FIBER COMMUNICATION NETWORK, KNOWN AS ATMS (COUNTY ISD, SCHOOL BOARD, AND TRAFFIC MANAGEMENT CENTER) IN THE AREA TO ACCOMMODATE ANY POTENTIAL CONFLICTS. AS—BUILT INFORMATION FOR EXISTING COMMUNICATION CONDUIT AND FIBER IS AVAILABLE FROM FRANK CONETTA, WITH UTILITY RECORDS (941-792-8811 EXT

#### DRAINAGE AND GRADING

- 46. ALL CONSTRUCTION IS TO BE STAKED IN THE FIELD BY OR UNDER THE SUPERVISION OF A FLORIDA REGISTERED LAND
- 47. THE CONTRACTOR IS TO PROVIDE THE ENGINEER OF RECORD WITH REPRODUCIBLE RECORD DRAWINGS SHOWING ALL 7. THE CONTRACTOR IS TO PROVIDE THE ENGINEER OF RECORD WITH REPRODUCIBLE RECORD DAWNINGS SHOWING ALL IMPROVEMENT LOCATIONS AND ELEVATIONS IN ACCORDANCE WITH LATEST MANATEE COUNTY TRANSPORTATION DEPEARMENT STANDARDS AND SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT (SWFWMD) STANDARDS. THE CONTRACTOR SHALL ALSO PROVIDE FIVE SETS OF PRINTS, SIGNED AND SEALED BY A PROFESSIONAL LAND SURVEYOR, OF THE RECORD DRAWINGS TO THE GENERICE OF RECORD. THESE RECORD DRAWINGS SHALL BE CERTIFIED TO THE OWNER, APPROPRIATE GOVERNMENTAL AGENCIES. RECORD DRAWINGS SHALL SPECIFICALLY INCLUDE STORMWATER FACILITY LOCATIONS, INCLUDING TOP OF BANK, UNDERDRAWIN CONTROL STRUCTURES, SHALL BE PERFORMED BY A REGISTERED LAND SURVEYOR AND REVIEWED BY THE ENGINEER OF RECORD PRIOR TO ACCEPTANCE AND PAYMENT. BENCH MARKS WITH THE ELEVATION CLEARLY AND PERMANENTLY MARKED ARE TO BE PLACED ON THE TOP OF ALL PROPOSED OUTFALL CONTROL STRUCTURES. RECORD DRAWINGS OF ALL MITIGATION AREAS INCLUDING ELEVATIONS, ZONES AND LIMITS SHALL BE PERFORMED BY A REGISTERED LAND SURVEYOR AND REVIEWED BY THE ENGINEER OF RECORD PRIOR TO ACCEPTANCE AND PAYMENT. THE RECORD DRAWINGS SHALL SPECIFICALLY INCLUDE THE SURFACE AREA OF STORMWATER FACILITY AREAS AT NORMAL WATER), TOP OF BANK AND ELEVATION (NWL20), AT HIGH WATER ELEVATION (HWL ALL MITIGATION AND/OR LITTORAL SHELF AREAS AT NORMAL WATER).
- 48. TO PREVENT SEDIMENTARY RUNOFF DURING CONSTRUCTION, STAKED HAY BALES, STAKED SILT SCREENS OR INLET DEBRIS CONTROL SCREENS ARE TO BE PLACED AT STORM INLETS, OUTFALL LOCATIONS AND ADJACENT PROPERTY LINES AS REQUIRED PRIOR TO ANY CONSTRUCTION ACTIVITIES. SEDIMENT AND EROSION CONTROL DEVICES SHALL BE INSTALLED AND THEN VERIFIED/INSPECTED BY MANATEE COUNTY INFRASTRUCTURE INSPECTIONS RESOURCES DIVISION (708–7450) PRIOR TO COMENCEMENT OF CONSTRUCTION THE ECONTRACTOR IS RESPONSIBLE FOR MAINTAINING THE SEDIMENTATION BARRIERS IN A WORKING MANNER FOR THE DURATION OF CONSTRUCTION AND SHOULD BE CHECKED DAILY. SILITATION

ACCUMULATIONS GREATER THAN THE LESSER OF 12 INCHES OR ONE—HALF OF THE DEPTH OF THE SEDIMENTATION BARRIER SHALL BE IMMEDIATELY REMOVED AND REPLACED IN UPLAND AREAS. IN ADDITION TO SPECIFIED EROSION CONTROL LOCATIONS, THE CONTRACTOR SHALL PERFORM DAILY SITE INSPECTIONS FOR POTENTIAL EROSION PROBLEMS. IF PROBLEMS OCCUME, THE CONTRACTOR IS RESPONSIBLE FOR INSTALLING APPROPRIATE EROSION CONTROL IMMEDIATELY. AN INSPECTION LOG SHALL BE MAINTAINED AND AVAILABLE ONSITE AT ALL TIMES. STORMWATER TREATMENT FACILITIES INCLUDING OUTFALL PER DETAIL ARE TO BE CONSTRUCTED EARLY IN SITE DEVELOPMENT, WITH OFF OFF OCCURRING DURING CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR REMOVING TEMPORARY EROSION CONTROL DEVICES FOLLOWING COMPLETION OF ALL CONSTRUCTION AND FINAL STABILIZATION.

- 49. ALL PIPE LENGTHS SHOWN ON PLAN VIEW ARE TO THE END OF THE MITERED END SECTION. REFER TO MITERED END SECTION DETAIL FOR LENGTH OF PIPE TO BE INCLUDED IN PRICE FOR MITERED END SECTION.
- 50. TOPOGRAPHIC AND PROPERTY SURVEYS GIVING LOT SIZE, GROUND ELEVATIONS, OBSTRUCTIONS ON SITE, LOCATIONS AND DEPTHS OF SEWERS, CONDUITS, PIPES, EXISTING STRUCTURES, CURBS, PAVEMENTS, TRACTS, AND SOIL BORING DATA GIVING THE NATURE OF GROUND AND SUBSURFACE CONDITIONS HAVE BEEN OBTAINED FROM RELIABLE SOURCES. THE ACCURACY OF THIS DATA IS NOT GUARANTEED, AND IS FURNISHED SOLELY AS AN ACCOMMODATION TO THE CONTRACTOR. USE OF THIS DATA SHALL BE MADE AT THE CONTRACTOR'S DISCRETION. NO ADDITIONAL COMPENSATION WILL BE GRANTED DUE TO THE CONTRACTOR'S LACK OF KNOWLEDGE OF SITE CONDITIONS PRIOR TO BID SUBMISSION. THE CONTRACTOR SHALL CONDUCT ANY ADDITIONAL SURVEYS AND SOILS TESTS HE MAY DEEM NECESSARY TO VERIFY THE ACCURACY OF INFORMATION PROVIDED.
- 51. THE CONTRACTOR SHALL VERIFY TOPOGRAPHY AND SATISFY HIMSELF AS TO THE EXTENT OF FILL NECESSARY TO ACHIEVE FINISHED GRADE PRIOR TO AWARD OF CONTRACT. THERE SHALL BE NO CLAIM FOR EXTRAS NOTWITHSTANDING SITE PLAN REVISIONS PROMULGATED SUBSEQUENT TO AWARD OF CONTRACT.
- 52. ROADSIDE UNDERDRAIN SHOWN ON PLAN IS MINIMUM AND EXTENSION SHALL BE REQUIRED AS DETERMINED NECESSARY BY THE ENGINEER OF RECORD AND/OR MCPWD INSPECTION DEPARTMENT DURING THE COURSE OF CONSTRUCTION.
- 53. SUITABLE FILL MATERIAL FROM EXCAVATION SHALL BE UTILIZED FOR PROJECT FILL PER GRADING SPECIFICATIONS.
  UNSUITABLE MATERIAL SHALL BE PLACED IN OPEN AREAS ONLY AS DIRECTED BY THE PROJECT ENGINEER AND SOILS ENGINEER IN ACCORDANCE WITH FOOT INDEX 505.
- 54 THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR ALL STRUCTURES PRIOR TO INSTALLATIONS
- 55. REFER TO CONSTRUCTION TECHNICAL SPECIFICATIONS FOR COMPACTION REQUIREMENTS, GRASSING/SODDING REQUIREMENTS, AND PAVING CONSTRUCTION MATERIAL SPECIFICATIONS.
- 56. ALL FILL AREAS ARE TO BE CONSTRUCTED IN 12" MAXIMUM LIFTS

### VERTICAL DATUM **NAVD 88**

#### EMERGENCY CONTACTS

MANATEE COUNTY
PUBLIC WORKS DEPT.
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LEGEND

#### FXISTING

вм 🕀	BENCH MARK	$\Diamond$	BUSH		ABBREVIATIONS
CM •	CONCRETE MONUMENT	<b>(2)</b>	TREE		
IP 。	IRON PIPE	£3	OAK TREE	R/W	RIGHT OF WAY
IR •	IRON ROD	X	PALM TREE	CONC	CONCRETE
HUB △	HUB		PINE TREE	ASPH	ASPHALT
N&D ∘	NAIL & DISK	*		DRWY	DRIVEWAY
×5.2556	ELEVATION			SWK	SIDEWALK
1234	PARCEL ID NO.			EP	EDGE OF PAVEMENT
1278	PARCEL ID NO.	$\sim$	EDGE OF VEGETATION	BOC	BACK OF CURB
070	LOT NO.		- CHAIN LINK FENCE		
$GW  \leftarrow$	GUY WIRE		- WOOD FENCE		
PP ∮	POWER POLE	xx	-BARBED WIRE FENCE		
LP 🌼	LIGHT POLE	FM	FORCE MAIN		
мв 🛭	MAIL BOX	PW	POTABLE WATER		
SN d	SIGN		- RECLAIMED WATER		PROPOSED
REF )	REFLECTOR	ss	- SANITARY SEWER		
SPRK o	SPRINKLER	s	STORM DRAIN		
GM ©	GAS MARKER	GAS	- GAS LINE		SERVICE LINE
BFP ⊸	BACKFLOW PREVENTER	OHTV	OVERHEAD TV		
BO ⊠⊚	BLOW OFF VALVE	——— UGTV ———	UNDERGROUND TV		FIRE HYDRANT
FH 💠	FIRE HYDRANT	OE	OVERHEAD ELECTRIC	▶◀	VALVE
WV ⋈	WATER VALVE	——— BE ———	- UNDERGROUND ELECTRIC		SANITARY SEWER MANHOLE
ARV (A)	AIR RELEASE VALVE	OH VER	OVERHEAD VERIZON	<del>▶</del> ◆	BLOW OFF ASSEMBLY
wm $\square$	WATER METER	UG VER	- UNDERGROUND VERIZON	₹	REDUCER
SMH (S)	SANITARY SEWER MANHOLE	VER	- VERIZON	Ð	TEE
<i>co</i> o	SANITARY SEWER CLEAN OUT	UG	- UNDERGROUND UTILITY	₹.	HORIZONTAL BEND
SB#1 💠	SOIL BORING LOCATION	—— ОН ———	OVERHEAD UTILITY	↣	VERTICAL BEND
TEL ŒD	TELEPHONE SERVICE BOX		RAIL ROAD TRACKS	)	PLUG
UBX	UTILITY BOX		- EDGE OF CONCRETE	0 0	MASTER METER ASSEMBLY
Ø₽	UTILITY RISER		- EDGE OF ROAD		
	FLOW DIRECTION		TOE OF SLOPE	—-	SERVICE LINE & METER
	GRATE INLET		TOP OF BANK		DOUBLE SERVICE
	MITERED END SECTION		- PROPERTY LINE		
0	STORM SEWER MANHOLE		-RIGHT OF WAY		

DESCRIPTION REVISION DATE PROJECT # SURVEYED ZNS 02/2019 307-6098560 ADDITIONAL STRUCTURE ON NE QUADRANT 08/07/19 SURVEY # 0577-0036 DESIGNED GB02/2019 SEC./TWN./RGE KHL 02/2019 SCALE 1"=20" CHECKED XXX XX/XXXX GRIGORY BERIKHMAN, P.E. FLORIDA P.F. # 76896

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

WHITFIELD AVENUE AT SEMINOLE GULF COAST RAILROAD GENERAL NOTES & LEGEND

SHEET NO. 03

Signature & Date

- 58. STATION LOCATIONS AND OFFSETS FOR STORM DRAIN INLETS AND MANHOLES REFERENCE THE CENTER OF THE SPECIFIED . STATION LOCATIONS AND OFFSETS FOR STORM DRAIN INLETS AND MANHOLES REFERENCE THE CENTER OF THE SPECIFIED STRUCTURE BOTTOM STATION LOCATION IS CENTER OF STRUCTURE BOTTOM STATION LOCATION IS CENTER OF RISER FOR CURB INLETS. FOR PIPES WITH MITERED END SECTIONS, THE PROPOSED LENGTHS SHOWN ON THE PLANS INCLUDE THE LENGTH OF THE MITERED END SECTION. PAYMENT FOR PIPE SHALL NOT INCLUDE THE LENGTH OF THE MITERED END SECTION. AS SPECIFIED BY DIMENSION "F" AS SHOWN IN FDOT INDEX 272 AND 273. PAYMENT SHALL BE FROM INSIDE STRUCTURE WALL TO INSIDE STRUCTURE WALL ANY EXTRA PIPE LENGTH LISTED SHALL BE CONSIDERED CONTINGENT.
- 59. ALL CURB INLET AND JUNCTION BOX STORMWATER STRUCTURES SHALL HAVE HEAVY DUTY RING AND COVER MANHOLE ACCESS.
  ALL DRAINAGE BOX DETAIL SHALL FOLLOW MANATEE COUNTY CURRENT STANDARD 202 UNLESS IT IS DESIGNATED IN THE PLAN
  ALL DRAINAGE BOXES SHALL HAVE A WALL THICKNESS OF 6" MINIMUM.
- 60. DURING DEWATERING OPERATIONS, THE CONTRACTOR SHALL NOT DISCHARGE DIRECTLY TO RECEIVING WATERS, EXISTING CONVEYANCES TO RECEIVING WATERS, OR WETLAND SYSTEMS. TEMPORARY SEDIMENT BASINS, TRAPS, OR SILTATION REDUCTION DEVICES SHALL BE UTILIZED TO COLLECT THE DISCHARGE FROM DEWATERING ACTIVITIES TO ELIMINATE THE POTENTIAL FOR OFFSITE SEDIMENT TRANSPORT AND TO ENSURE THAT DIRECT DISCHARGE DOES NOT OCCUR.

#### RESTORATION

- 61. ALL RESTORATION WORK PERFORMED THROUGHOUT THE PROJECT SHALL CONFORM TO EXISTING LINES AND GRADES UNLESS
- 62. ALL DISTURBED GRASSED AREAS SHALL BE SODDED. THE TYPE OF SOD USED TO REPLACE OWNER MAINTAINED AREAS IN RIGHT-OF-WAY SHALL BE COORDINATED WITH THE PROPERTY OWNER. ALL EXISTING SHRUBS, TREES, PLANTINGS AND OTHER VECETATION, OUTSIDE OF RIGHT-OF-WAY DISTURBED DURING CONSTRUCTION SHALL BE REPLACED WITH EQUIVALENT MATERIAL BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
- 63. CONCRETE DRIVEWAYS OR SIDEWALKS THAT ARE CUT SHALL BE RESTORED TO MATCH EXISTING ACCORDING TO THE CURRENT EDITIONS OF THE F.D.O.T. SPECIFICATIONS FOR ROAD AND BRIDGE DESIGN, SECTION 522, AND SECTION 310 OF THE F.D.O.T. DESIGN STANDARDS LATEST REVISION AND PER MANATEE COUNTY PUBLIC WORKS
- 64. WHENEVER A PERMANENT ROADWAY SURFACE IS NOT PLACED IMMEDIATELY AFTER BACKFILLING AND COMPACTION OF THE NEWLY INSTALLED PIPE LINE IN AREAS WHERE TRAFFIC MUST PASS, THE CONTRACTOR SHALL INSTALL A TEMPORARY SURFACE CONSISTING OF NINE INCHES OF COMPACTED LIME ROCK BASE AND A COAT OF ASPHALT EMULSION. PERMANENT ROADWAY REPAIR SHALL BE PERFORMED A MAXIMUM OF TWENTY—ONE CALENDAR DAYS AFTER THE INITIAL OPEN CUTTING.
- 65. RESTORATION OF CURBS, DRIVEWAYS, SIDEWALKS, AND PLACEMENT OF SOD SHALL BE COMPLETED WITHIN FORTY-FIVE CALENDAR DAYS OF INITIAL DISTURBANCE, OR TWENTY-ONE CALENDAR DAYS OF SUBSTANTIAL COMPLETION, WHICHEVER OCCURS FIRST.

REVISION

- 66. THE EXHAUST SYSTEM OF ALL GASOLINE AND DIESEL ENGINES SHALL BE EQUIPPED WITH MUFFLERS THAT MEET THE EQUIPMENT MANUFACTURER'S REQUIREMENTS FOR NOISE SUPPRESSION. THE CONTRACTOR SHALL INSTALL NOISE ABATEMENT BAFFELS POSITIONED TO BREAK LINE-OF-SITE FROM THE NOISE SOURCE TO AFFECTED RESIDENCES, AS APPROVED BY THE ENGINEER.
- 67. NO MATERIAL SHALL BE STOCKPILED IN ROADWAYS. ALL DIRT AND DEBRIS SHALL BE REMOVED FROM THE JOB SITE DAILY. ROADS SHALL BE SWEPT DAILY AS PART OF DAILY CLEAN UP.
- 68. THE CONTRACTOR IS TO CONTROL ALL FUGITIVE DUST ORIGINATING ON THIS PROJECT BY WATERING OR OTHER METHODS AS
- 69. INGRESS AND EGRESS TO ALL THE PROPERTIES IN THE CONSTRUCTION AREA SHALL BE MAINTAINED AT ALL TIMES.
- 70. PRIOR APPROVAL WILL BE REQUIRED FOR REMOVAL OF ANY TREE WITHIN THE CONSTRUCTION AREA, UNLESS OTHERWISE NOTED ON THE PLANS.
- 71. THE CONTRACTOR SHALL PROVIDE ALL DEWATERING EQUIPMENT NECESSARY TO KEEP ALL EXCAVATIONS DRY, DEWATERING IS REQUIRED TO 18" BELOW TRENCH BOTTOM. THE CONTRACTOR SHALL SUBMIT DEWATERING PLAN TO DISTICT FOR APPROVAL PRIOR TO CONSTRUCTION.
- 72. ALL PIPING AND FITTINGS USED ON THIS PROJECT SHALL BE AS NOTED ON THE PLANS AND IN THE CONTRACT DOCUMENT AND SHALL BE INSTALLED TO THE LINES AND GRADES SHOWN ON THE PLANS AND PROFILES.
- 73. ALL PIPE LENGTHS ARE PLUS OR MINUS AND MAY BE ADJUSTED IN THE FIELD AS REQUIRED. PIPE MEASUREMENTS AND STATION OFFSETS ARE TO CENTER OF STRUCTURES OR FITTINGS. REFER TO DETAIL SHEET FOR ALL REFERENCE POINTS.
- 74. ALL ROCKS OR STONES LARGER THAN SIX INCH DIAMETER SHALL BE REMOVED FROM THE BACKFILL MATERIAL. BACKFILL MATERIAL PLACED WITHIN ONE FOOT OF PIPING AND APPURTENANCES SHALL NOT CONTAIN ANY STONES LARGER THAN TWO
- 75. ALL PENETRATION OF EXISTING STRUCTURES SHALL BE BY THE MECHANICAL ROTARY CORE BORING METHOD.
- 76. ALL CONCRETE AND REBAR PENETRATED OR DISTURBED SHALL BE COATED WITH TWO COATS OF EPOXY.
- 77. CONTRACTOR IS RESPONSIBLE FOR ALL UNSUITABLE MATERIAL REMOVAL WITHIN PROJECT LIMITS. EXCAVATION, EMBANKMENT, INCLUDING UTILIZATION, AND UNSUITABLE MATERIAL REMOVAL SHALL BE IN ACCORDANCE WITH FDOT DESIGN STANDARDS, LATEST VERSION.
- 78. WHERE EXCAVATION IS REQUIRED FOR CONSTRUCTION OF SIDEWALK, ALL STUMPS, ROOTS, ETC. SHALL BE REMOVED COMPLETELY FROM THE SIDEWALK AREA. ALL STUMPS WITHIN THE PROJECT LIMITS SHALL BE REMOVED COMPLETELY AND REPLACED WITH COMPACTED BACKFILL BEFORE THE AREA IS FILLED. TREE ROOTS IN AREA OF PROPOSED SIDEWALK, RAMP, OR DRIVEWAY REPLACEMENT SHALL BE GROUND OUT TO A DEPTH OF 6" BELOW BOTTOM OF NEW SIDEWALK OR DRIVEWAY. ALL PRUNED ROOT DEBRIS SHALL BE REMOVED FROM THE SUB-BASE WATERIAL PROT TO POURING CONCRETE, ASPHALT, OR APPLICATION OF OTHER SPECIFIED MATERIALS. THIS WORK SHALL BE INCLUDED IN AND PAID FOR UNDER THE PAY ITEM FOR CLEARING AND GRIBBING
- 79. ALL STUMPS, ROOTS, AND OTHER DEBRIS PROJECTING THROUGH OR APPEARING ON THE SURFACE OF THE GROUND SHALL BE REMOVED TO A DEPTH OF 1-FOOT BELOW THE COMPLETED SURFACE. THIS WORK SHALL BE INCLUDED IN AND PAID FOR UNDER THE PAY ITEM FOR CLEARING AND GRUBBING
- 80. ALL MATERIALS NOT CLAIMED BY THE COUNTY SHALL BECOME PROPERTY OF THE CONTRACTOR, AND SHALL BE DISPOSED OF BY THE CONTRACTOR IN AREAS PROVIDED BY THE CONTRACTOR. THIS WORK SHALL BE INCLUDED IN AND PAID UNDER THE PAY ITEM CLEARING AND GRUBBING.
- 81. THE CONTRACTOR SHALL PROVIDE ALL SHEETING, SHORING, AND BRACING REQUIRED TO PROTECT ADJACENT STRUCTURES OR TO MINIMIZE TRENCH WIDTH. WHERE A SEPARATE PAY ITEM IS NOT PROVIDED, THE COST OF ALL SHEETING, SHORING, AND BRACING REQUIRED SHALL BE INCLUDED IN THE CONTRACT PRICE FOR THE ITEM OF WORK FOR WHICH SHEETING, SHORING, AND BRACING IS REQUIRED.
- 82. THE CONTRACTOR SHALL DISTURB NO MORE GROUND THAN WHAT IS NECESSARY FOR CONSTRUCTION. NO OPEN EXCAVATED TRENCH, OR OTHER UNSAFE CONDITION WILL BE LEFT OVERNIGHT. ALL WORK SITES WILL BE COMPLETELY RESTORED WITHIN SEVEN (7) CALENDAR DAYS OF THE CONCRETE POUR FOR SIDEWALK.THE INTENT OF THIS PROVISION IS TO "SAFE-UP" THE PROJECT SITE AS WORK PROGRESSES, AND SHALL INCLUDE REMOVING FORMS, FILLING HOLES, GRADING, AND REMOVAL OF
- 83. ALL EXISTING SIGNS WITHIN THE PROJECT LIMITS SHALL REMAIN UNLESS OTHERWISE NOTED IN THE PLANS, OR AS DIRECTED BY THE ENGINEER.
- 84. ANY EXISTING SIGN TO REMAIN THAT IS DISTURBED OR RELOCATED DURING CONSTRUCTION SHALL BE RESET TO CURRENT STANDARDS FOR HEIGHT, OFFSET, AND METHOD OF INSTALLATION AT NO ADDITIONAL COST TO THE COUNTY.
- 85. ALL EXISTING SWALES NOT DESIGNATED FOR RECONSTRUCTION SHALL BE REGRADED TO PROMOTE POSITIVE DRAINAGE AND MATCH PROPOSED CENTERLINE SWALE ELEVATION AND ALIGNMENT.
- 86. ALL STORM DRAINS AND STRUCTURES TO REMAIN SHALL BE CLEANED OF DEBRIS, DIRT, VEGETATION AND OTHER MATERIAL STORM SEWER INLETS SHALL BE MODIFIED (RAISED/LOWERED) TO MATCH PROPOSED FINISHED GRADE.
- 87, ALL EXISTING FENCES DISTURBED DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED AND REINSTALLED BY THE CONTRACTOR AT NO ADDITIONAL COST. (EXISTING FENCES WITHIN R/W TAKING LIMITS SHALL BE RECONSTRUCTED TO THE NEW R/W LINE AND ARE TO BE REIMBURSED UNDER THE MISCELLANEOUS BID ITEM).

DATE

08/07/19

DESCRIPTION

ADDITIONAL STRUCTURE ON NE QUADRANT

88. ALL EXISTING TREES LOCATED WITHIN CONSTRUCTION LIMITS SHALL REMAIN UNLESS OTHERWISE NOTED.

89. THE EXISTING STORM DRAINAGE STRUCTURES WITHIN CONSTRUCTION LIMITS SHALL REMAIN UNLESS OTHERWISE NOTED.

90 ALL EXISTING BUILDINGS SHALL REMAIN LINLESS OTHERWISE NOTED

## **VERTICAL DATUM NAVD 88**

#### **EMERGENCY CONTACTS**

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#### LEGEND

#### EXISTING

вм 🕕	BENCH MARK	$\triangle$	BUSH
CM ·	CONCRETE MONUMENT	***	TREE
IP ·	IRON PIPE	£33	OAK TREE
IR •	IRON ROD	X	PALM TREE
HUB △	HUB		PINE TREE
N&D ∘	NAIL & DISK	*	
×5.2556	ELEVATION		
1234	PARCEL ID NO.		
1234	PARCEL ID NO.	$\sim$	EDGE OF VEGETATION
(7)	LOT NO.		- CHAIN LINK FENCE
GW ←	GUY WIRE		WOOD FENCE
PP Ø	POWER POLE	xx	BARBED WIRE FENCE
LP ⋄	LIGHT POLE	FM	FORCE MAIN
мв ₫	MAIL BOX	PW	POTABLE WATER
SN d	SIGN	RCW-	RECLAIMED WATER
REF )	REFLECTOR	ss	SANITARY SEWER
SPRK 0	SPRINKLER	s	STORM DRAIN
GM ©	GAS MARKER	GAS	GAS LINE
BFP -O-	BACKFLOW PREVENTER	—— ОНТУ	OVERHEAD TV
BO ⊠☉	BLOW OFF VALVE	UGTV —	UNDERGROUND TV
FH ↔	FIRE HYDRANT	OE	OVERHEAD ELECTRIC
WV ⋈	WATER VALVE	——— BE ———	UNDERGROUND ELECTRIC
ARV (A)	AIR RELEASE VALVE		OVERHEAD VERIZON
WM □	WATER METER	UG VER	UNDERGROUND VERIZON
SMH (S)	SANITARY SEWER MANHOLE	VER	VERIZON
<i>co</i> o	SANITARY SEWER CLEAN OUT	UG	UNDERGROUND UTILITY
SB#1 💠	SOIL BORING LOCATION	—— он ——	OVERHEAD UTILITY
TEL (TEL)	TELEPHONE SERVICE BOX		RAIL ROAD TRACKS
UBX	UTILITY BOX		EDGE OF CONCRETE
(PP)	UTILITY RISER		EDGE OF ROAD
	FLOW DIRECTION		TOE OF SLOPE
	GRATE INLET		TOP OF BANK
	MITERED END SECTION		PROPERTY LINE
0	STORM SEWER MANHOLE		-RIGHT OF WAY

ABBREVIATIONS

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R/W RIGHT OF WAY CONC CONCRETE ASPH ASPHALT DRIVEWAY SWK SIDEWALK EDGE OF PAVEMENT

BOC

BACK OF CURB

PROPOSED

- SERVICE LINE — PROPOSED EASEMENT FIRE HYDRANT SANITARY SEWER MANHOLE <del>▶ ≪</del>• BLOW OFF ASSEMBLY REDUCER TEE HORIZONTAL BEND VERTICAL BEND 0 0 MASTER METER ASSEMBLY

SERVICE LINE & METER

WHITFIELD AVENUE AT SEMINOLE GULF COAST RAILROAD

> GENERAL NOTES & LEGEND CONTINUED

SURVEY # 0577-0036 DESIGNED GB02/2019 SEC./TWN./RGE KHL 02/2019 SCALE 1"=20" CHECKED XXX XX/XXXX

PROJECT #

SURVEYED

307-6098560

ZNS

02/2019

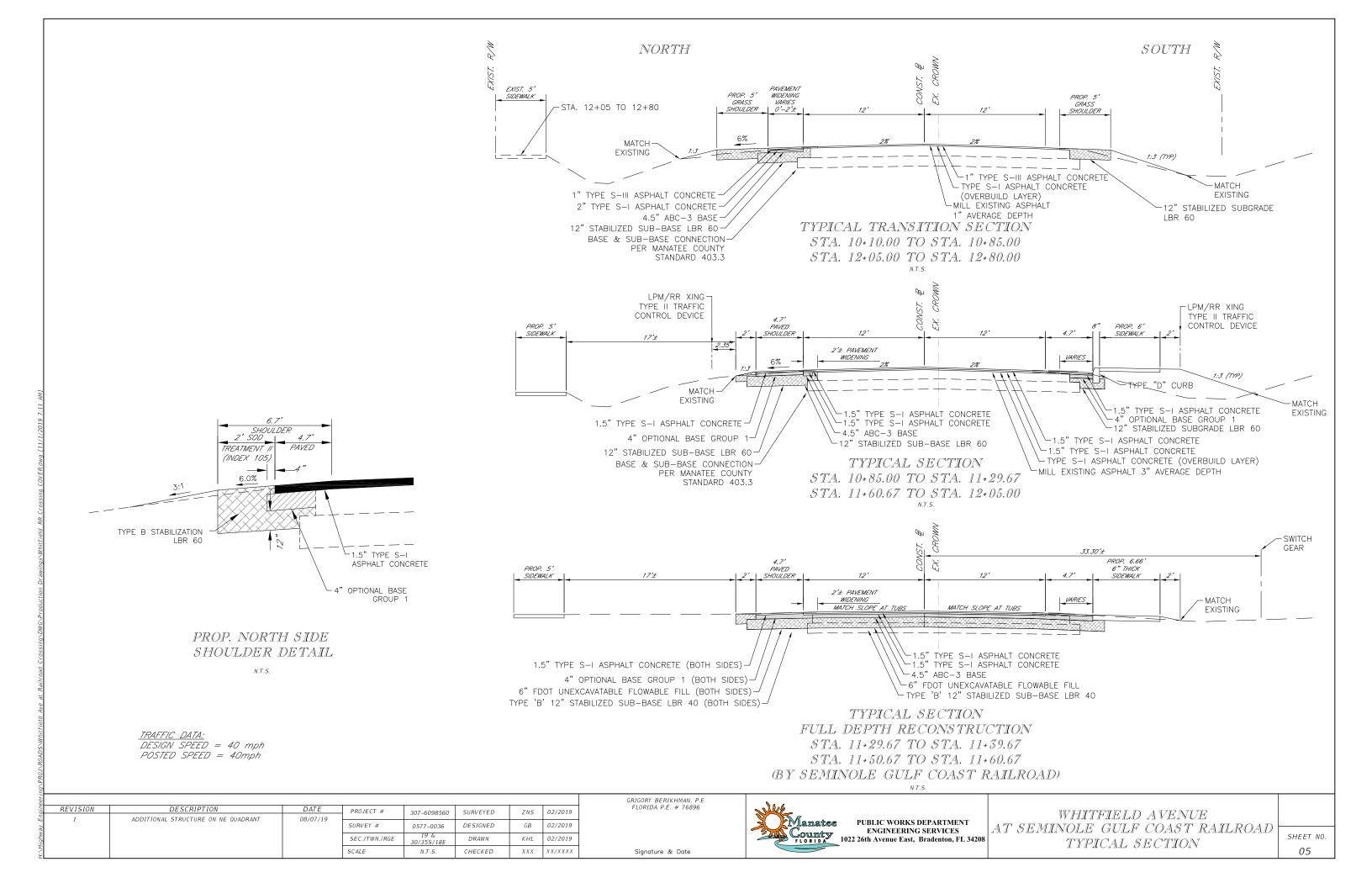
Manatee County

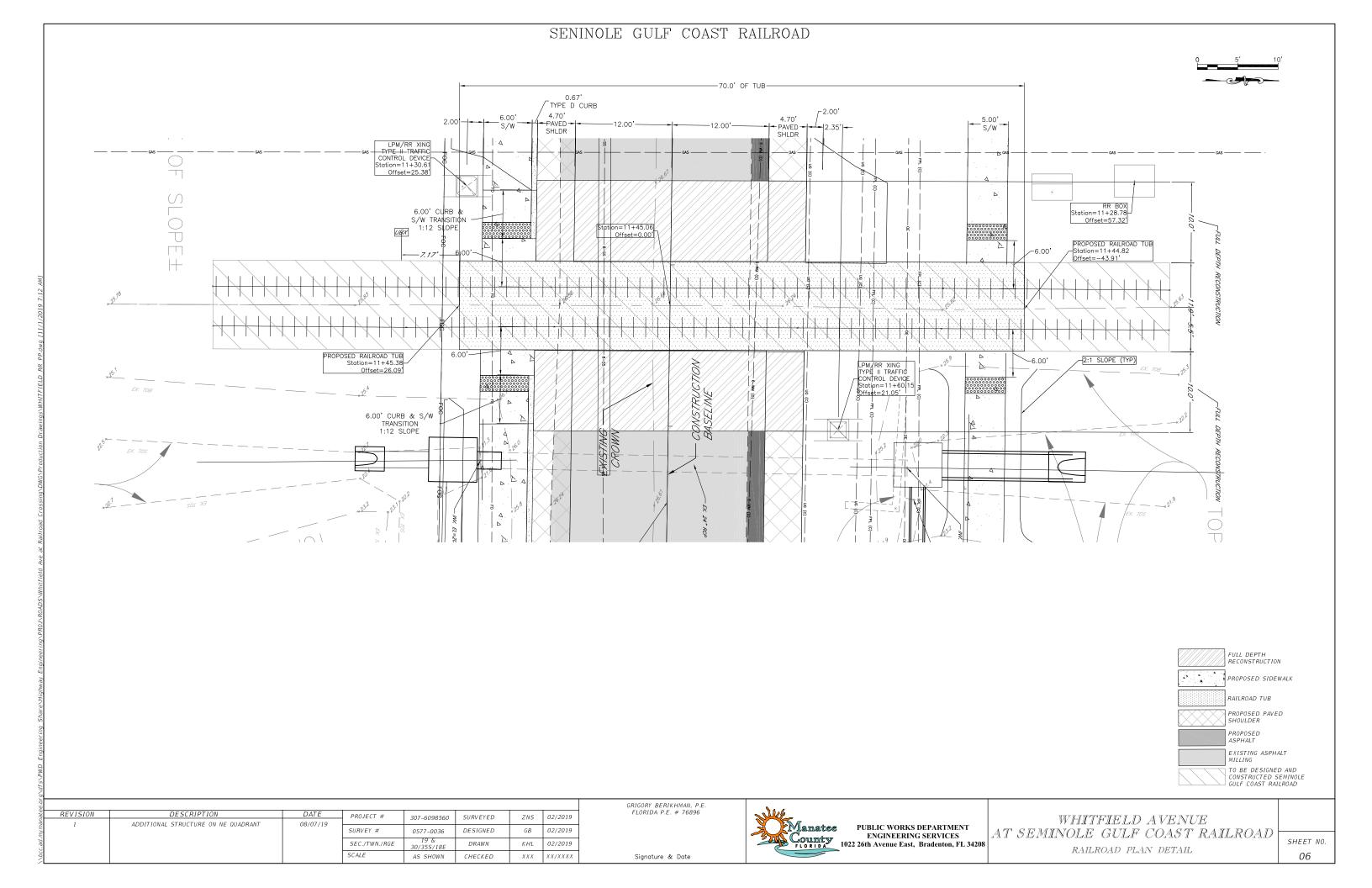
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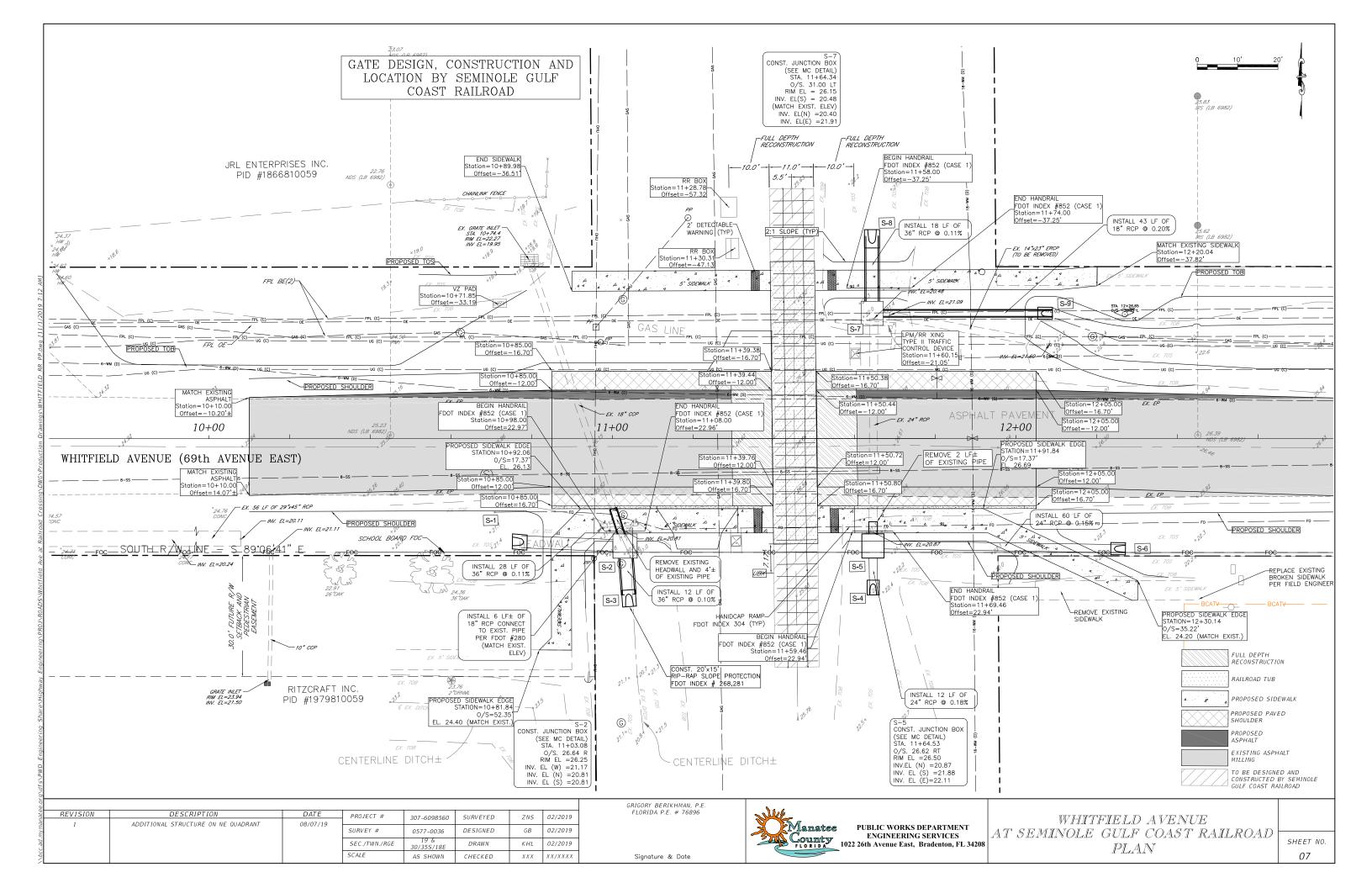
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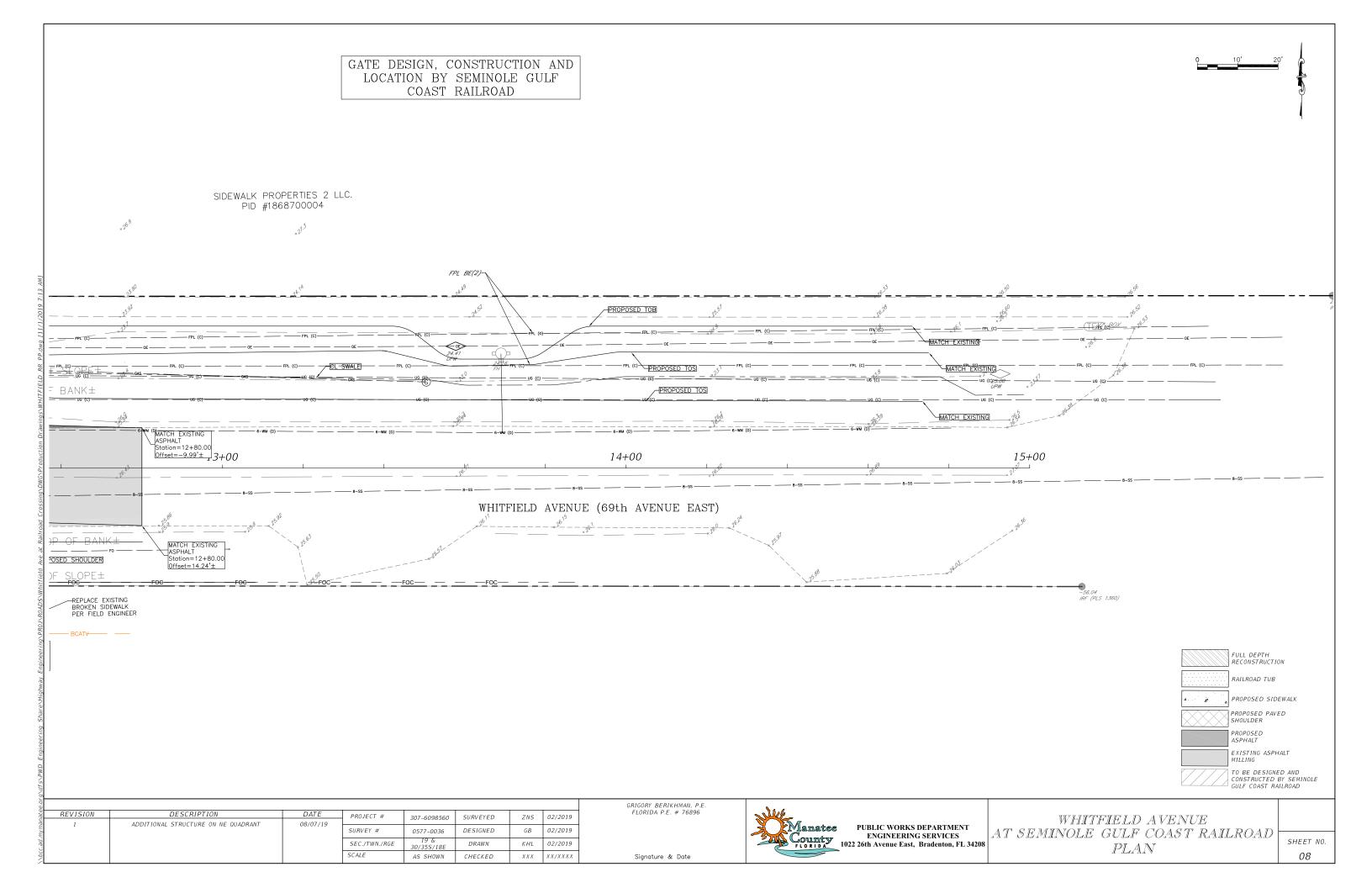
ENGINEERING SERVICES 1022 26th Avenue East, Bradenton, FL 34208

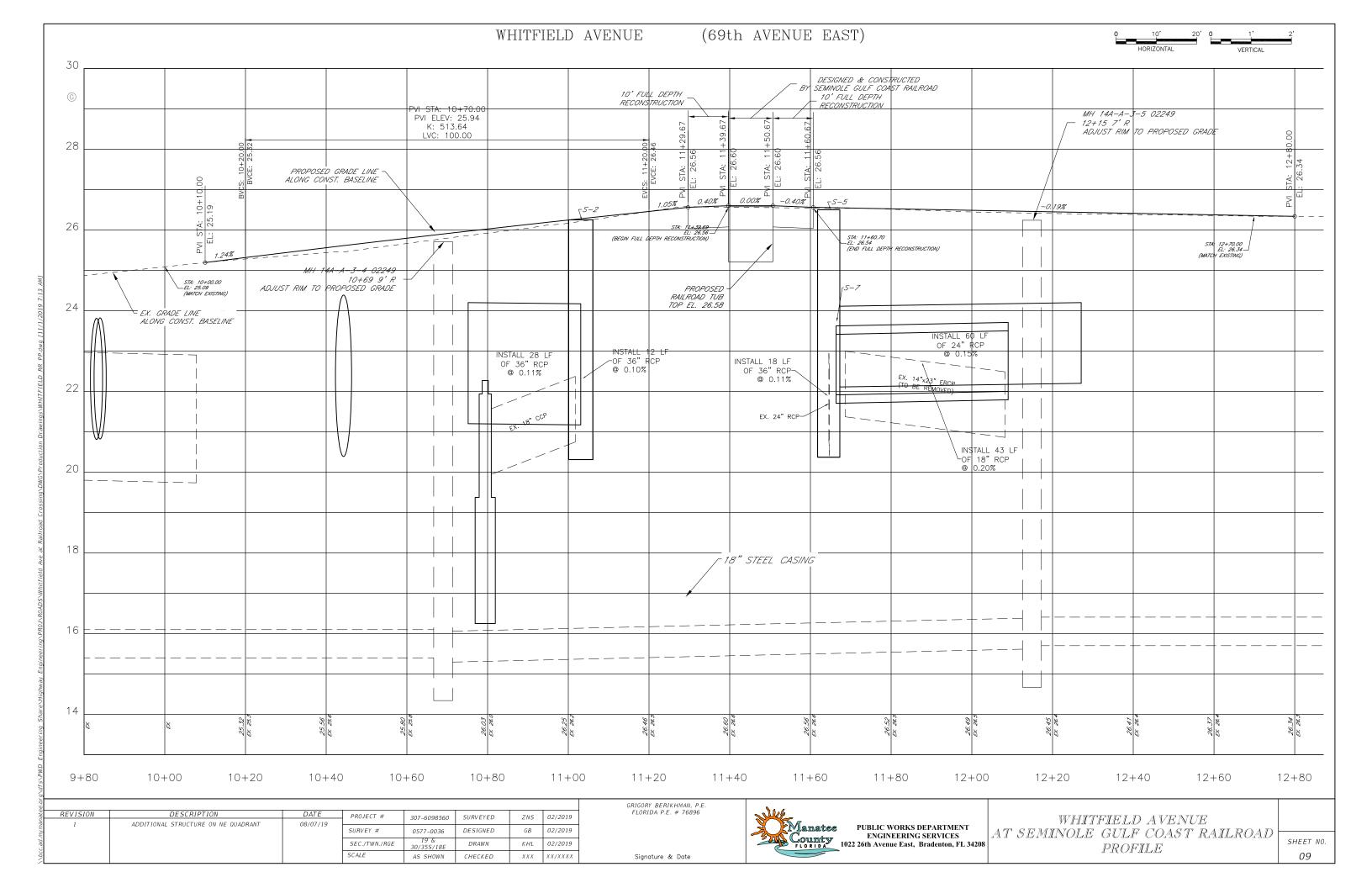
PUBLIC WORKS DEPARTMENT

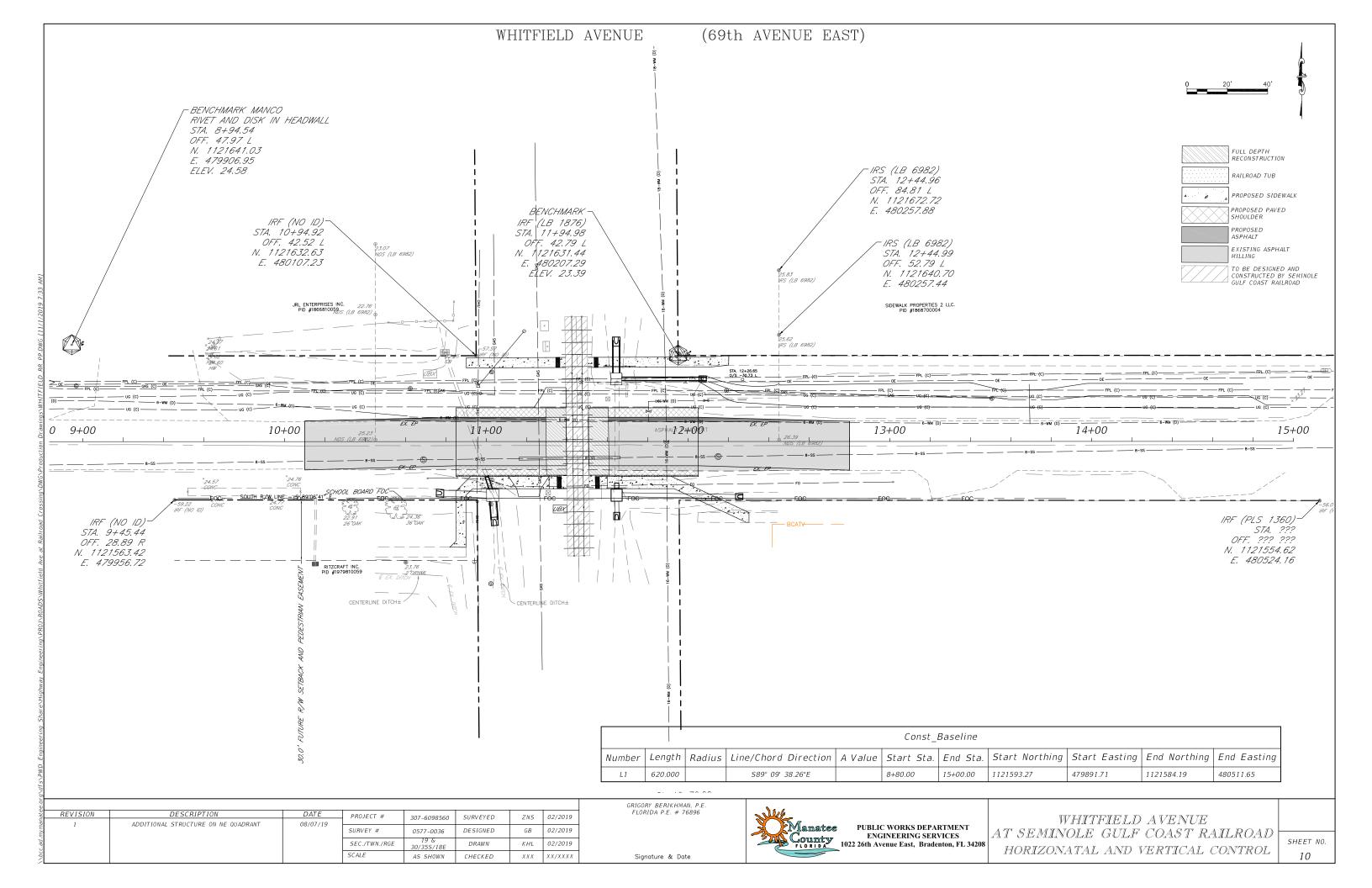


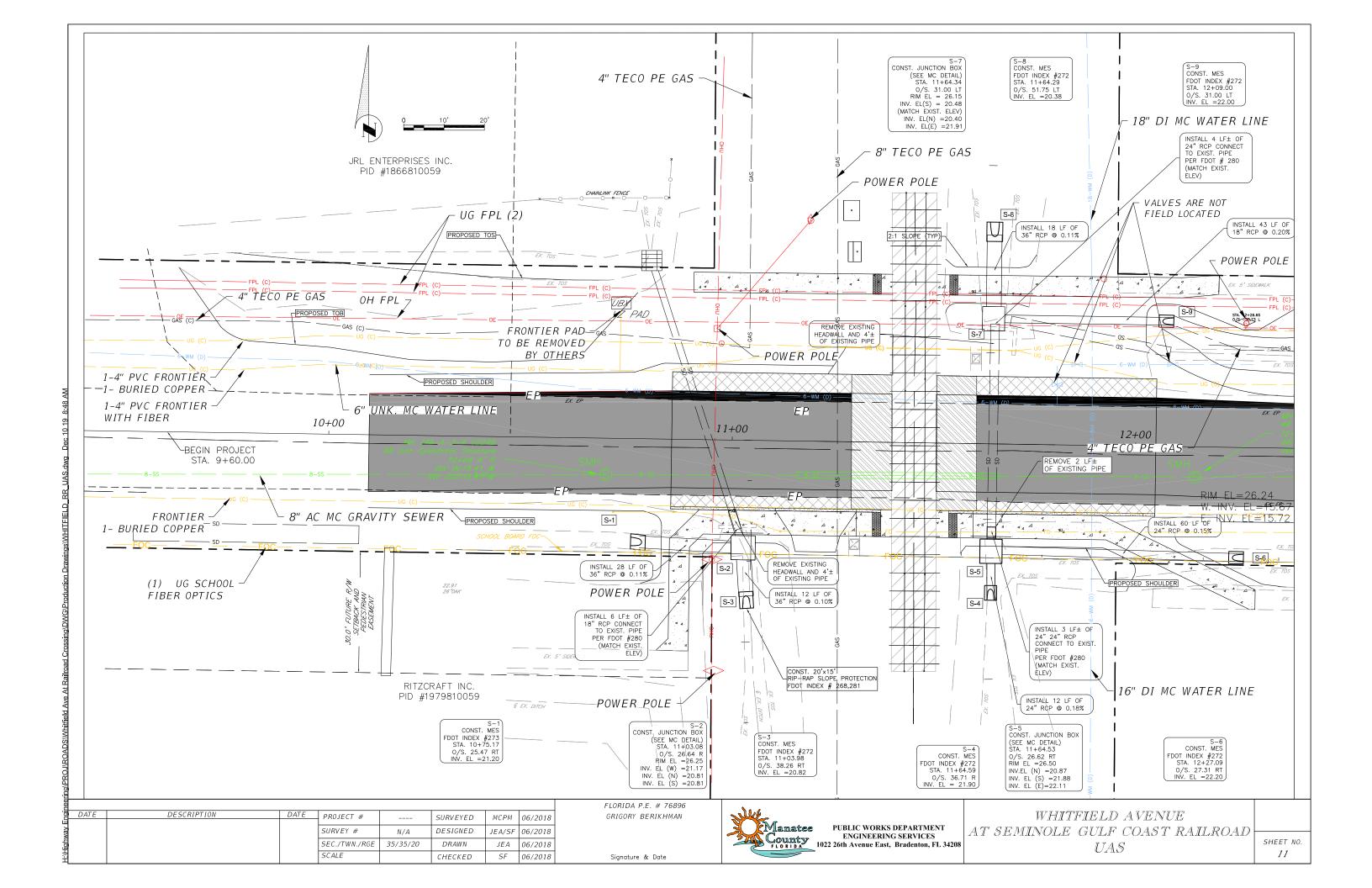


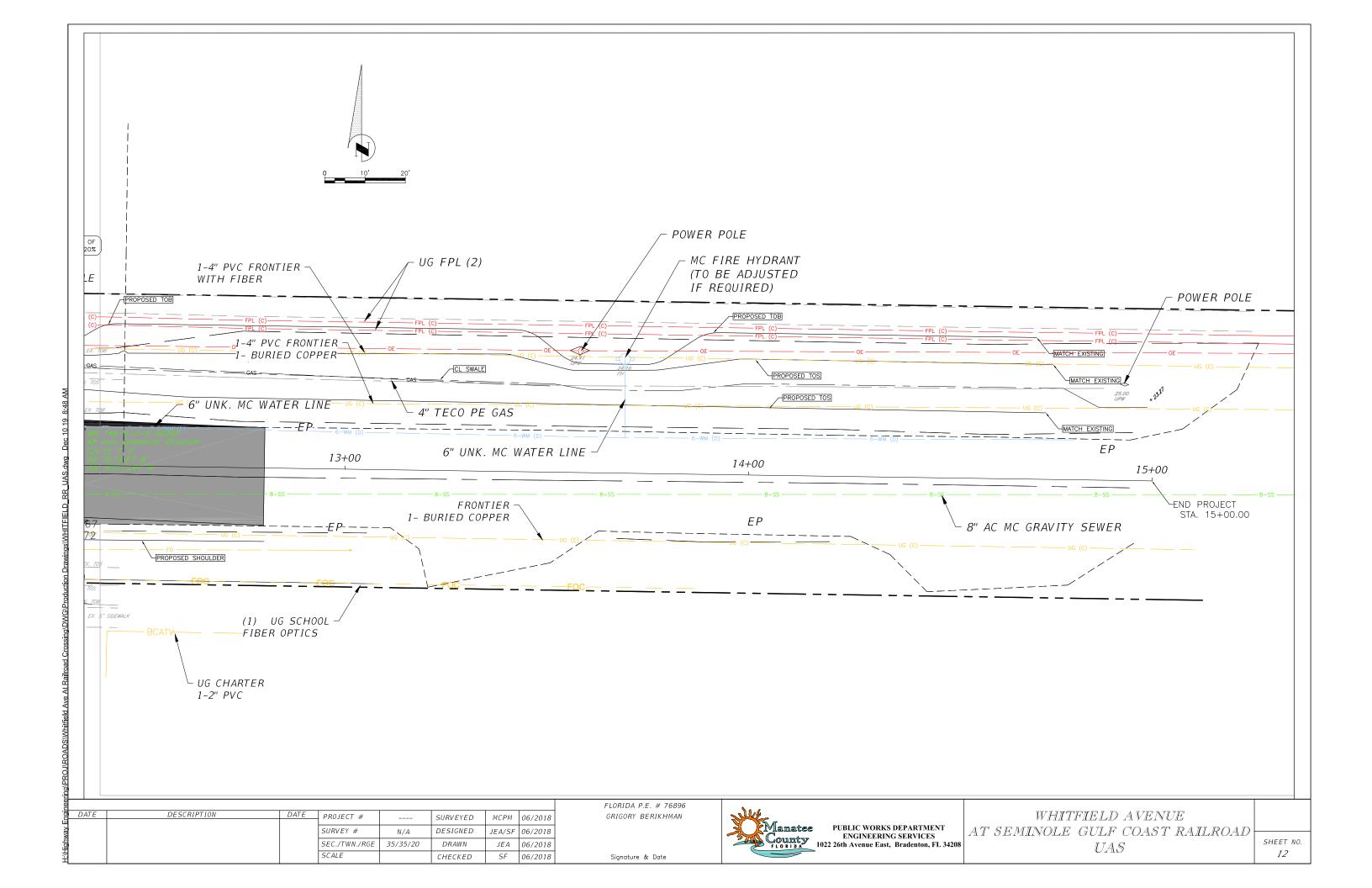


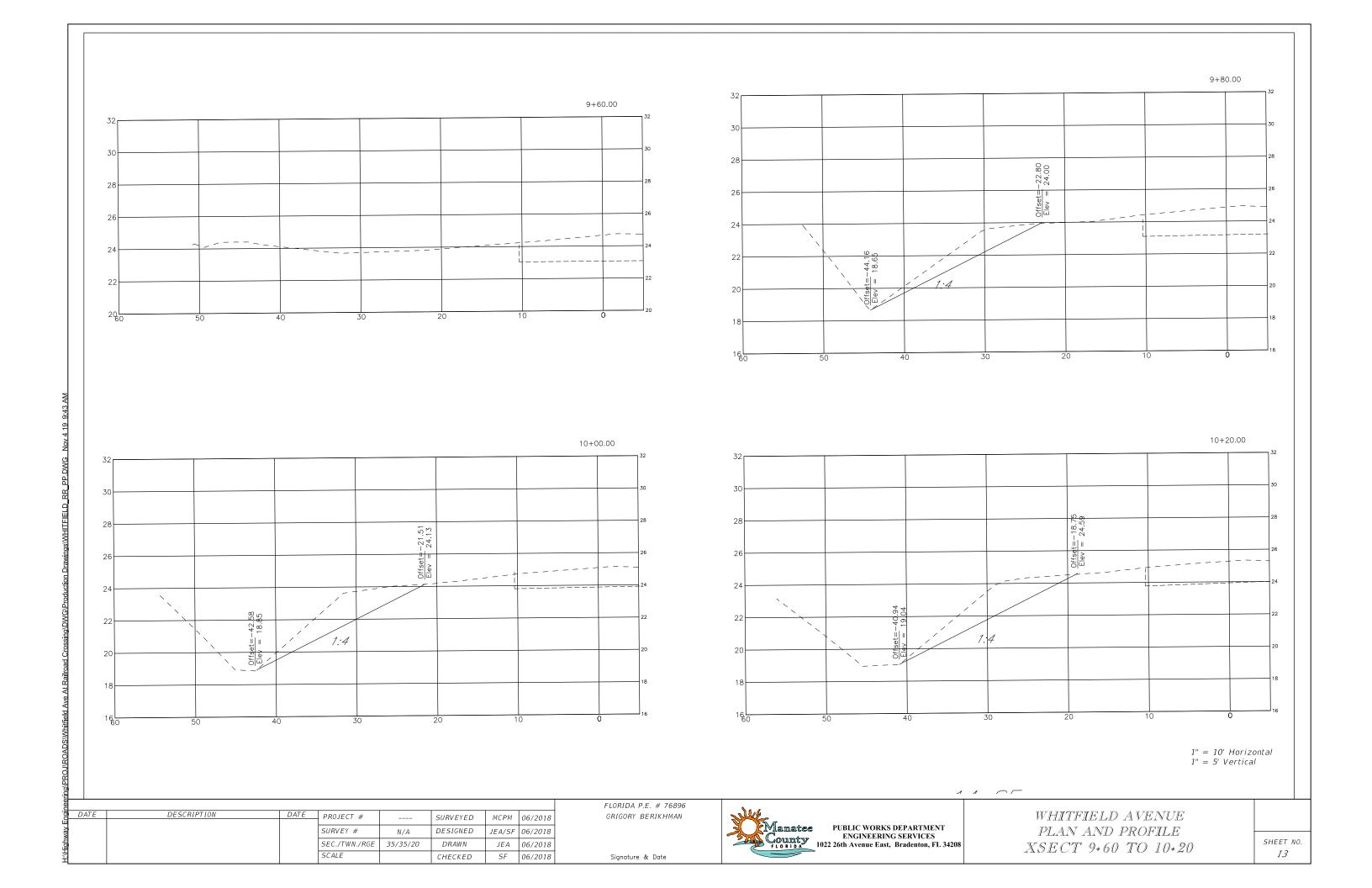


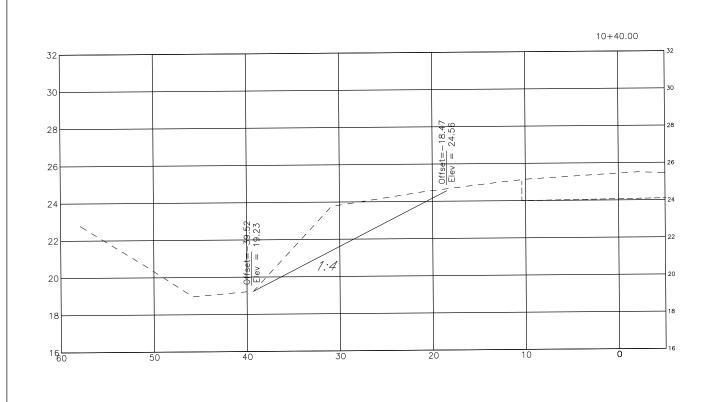


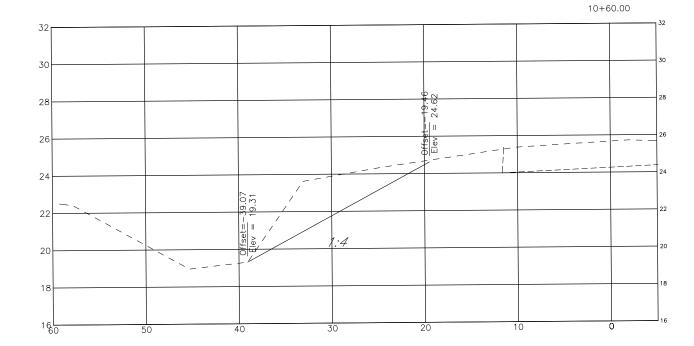


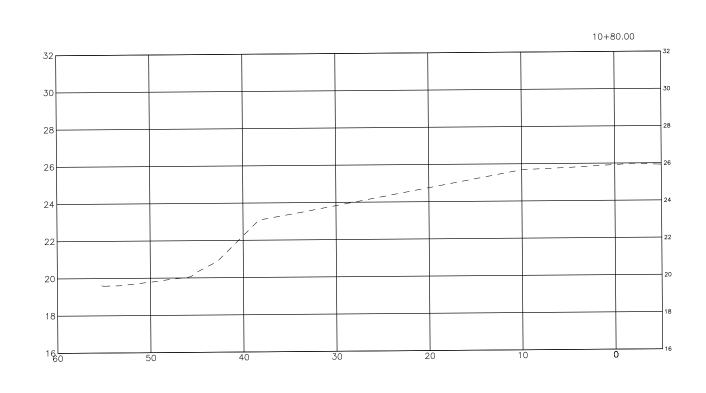












1" = 40' Horizontal 1" = 10' Vertical

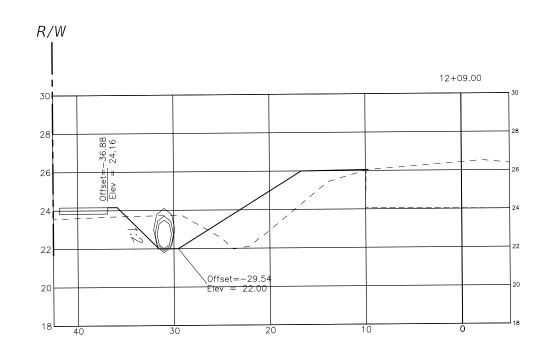
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1			SURVEY #	N/A	DESIGNED	JEA/SF	06/2018
			SEC./TWN./RGE	35/35/20	DRAWN	JEA	06/2018
			SCALE		CHECKED	SF	06/2018

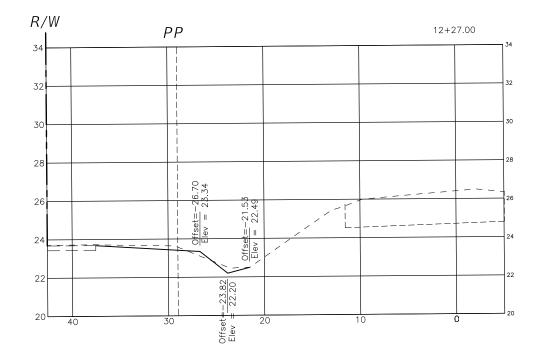
FLORIDA P.E. # 76896 GRIGORY BERIKHMAN

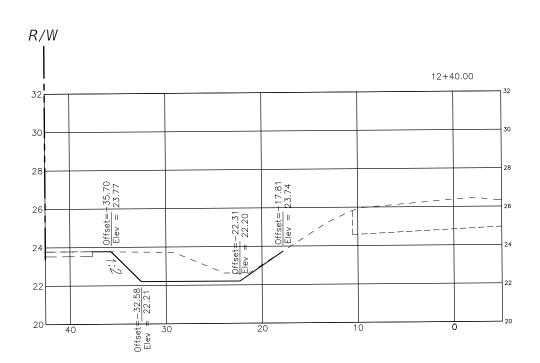
WHITFIELD AVENUE PLAN AND PROFILE XSECT 9+60 TO 10+20

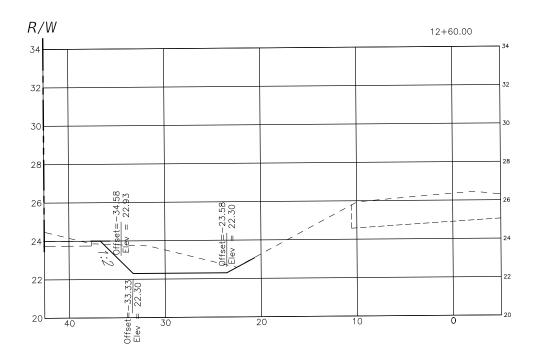
SHEET NO. 14

Manatee PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208 Signature & Date









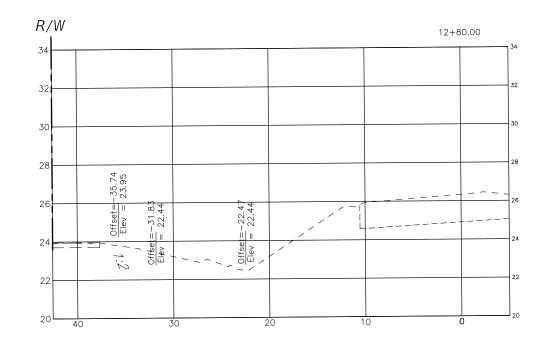
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ļ ,			SURVEY #	N/A	DESIGNED		06/2018
			SEC./TWN./RGE	35/35/20	DRAWN	JEA	06/2018
			SCALE	33/33/20			· ·
			SCALE		CHECKED	SF	06/2018

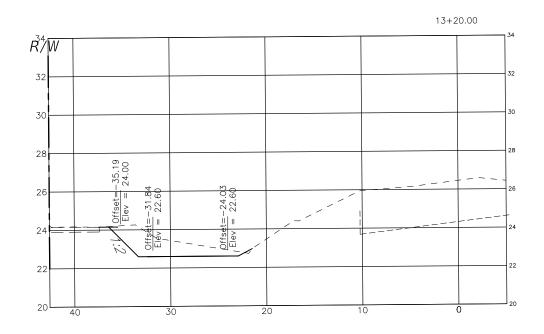
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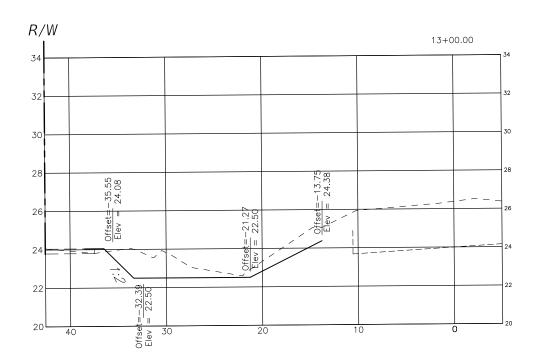
Signature & Date

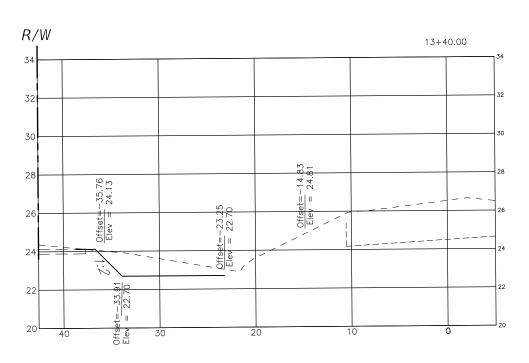


WHITFIELD AVENUE PLAN AND PROFILE XSECT STA 12+00 TO 12+60









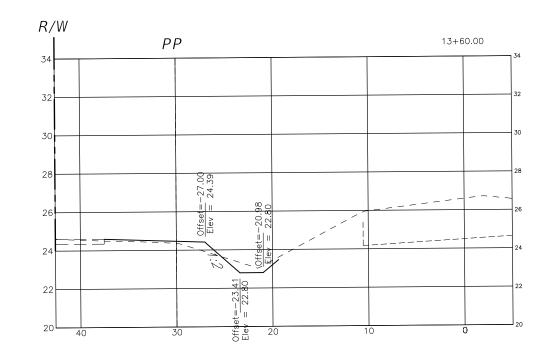
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DATE	DESCRIPTION	DATE	PROJECT #		SURVEYED	МСРМ	06/2018
			SURVEY #	N/A	DESIGNED	JEA/SF	06/2018
<b>a</b>			SEC./TWN./RGE	35/35/20	DRAWN	JEA	06/2018
1			SCALE		CHECKED	SF	06/2018

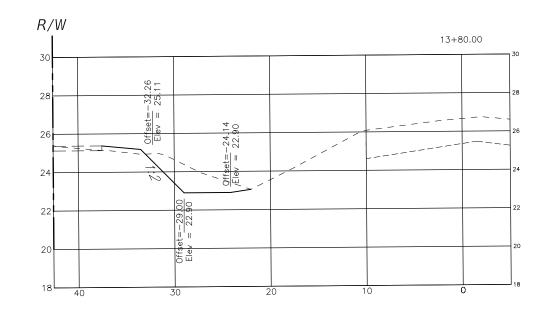
FLORIDA P.E. # 76896 GRIGORY BERIKHMAN

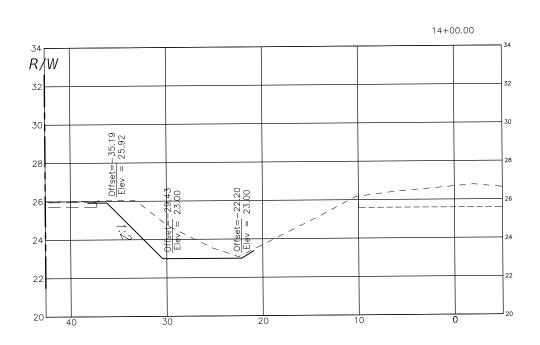
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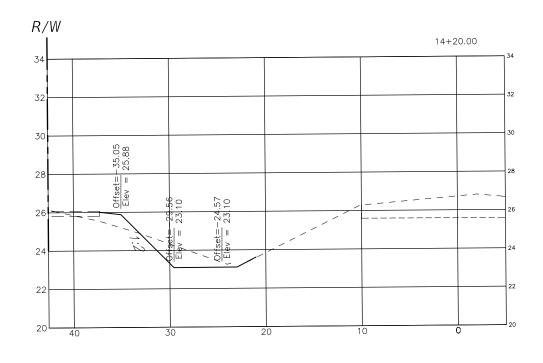


WHITFIELD AVENUE PLAN AND PROFILE XSECT STA 12+80 TO 13+40









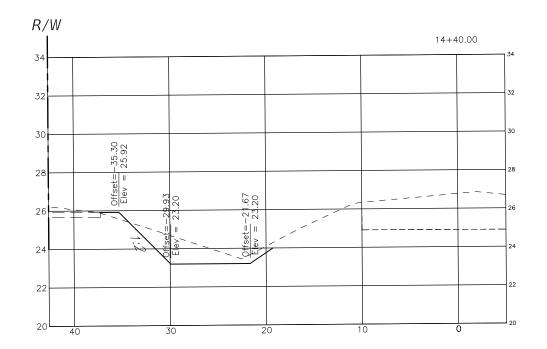
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,			SURVEY #	N/A	DESIGNED	IFA/SF	06/2018
			SEC./TWN./RGE	35/35/20	DRAWN	JEA	06/2018
			SCALE		CHECKED	SF	06/2018

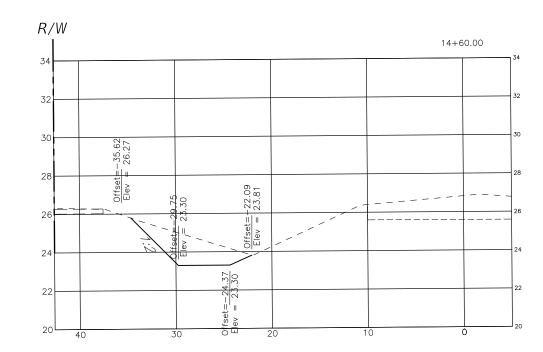
FLORIDA P.E. # 76896 GRIGORY BERIKHMAN

Signature & Date

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1022 26th Avenue East, Bradenton, FL 34208

WHITFIELD AVENUE PLAN AND PROFILE XSECT STA 13+60 TO 14+20





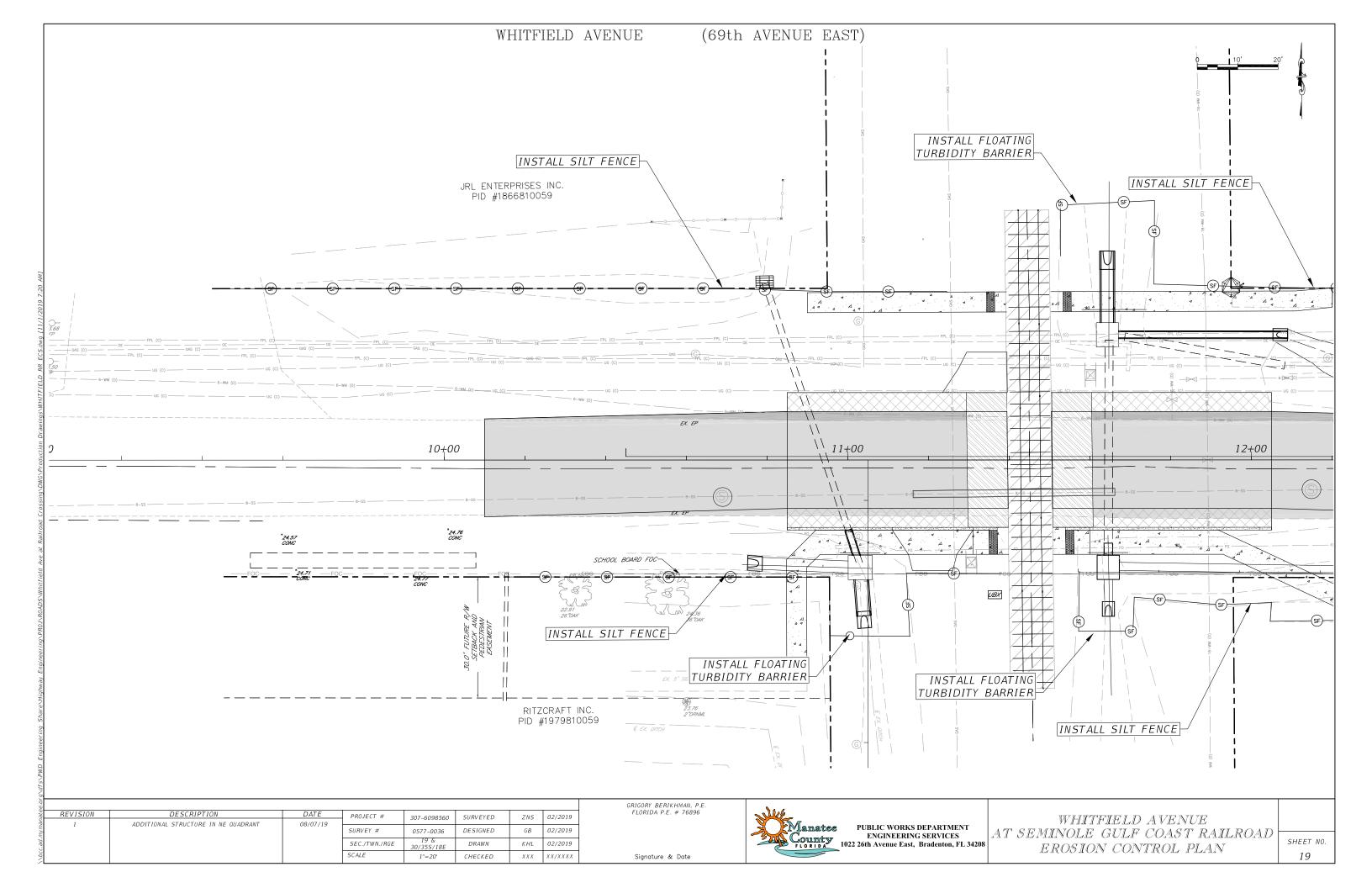
DATE	DESCRIPTION	DATE	PROJECT #		SURVEYED	МСРМ	06/2018
4					30,,,, 2,720	7.07 17	00,2010
			SURVEY #	N/A	DESIGNED	JEA/SF	06/2018
			SEC./TWN./RGE	35/35/20	DRAWN	JEA	06/2018
			SCALE		CHECKED	SF	06/2018

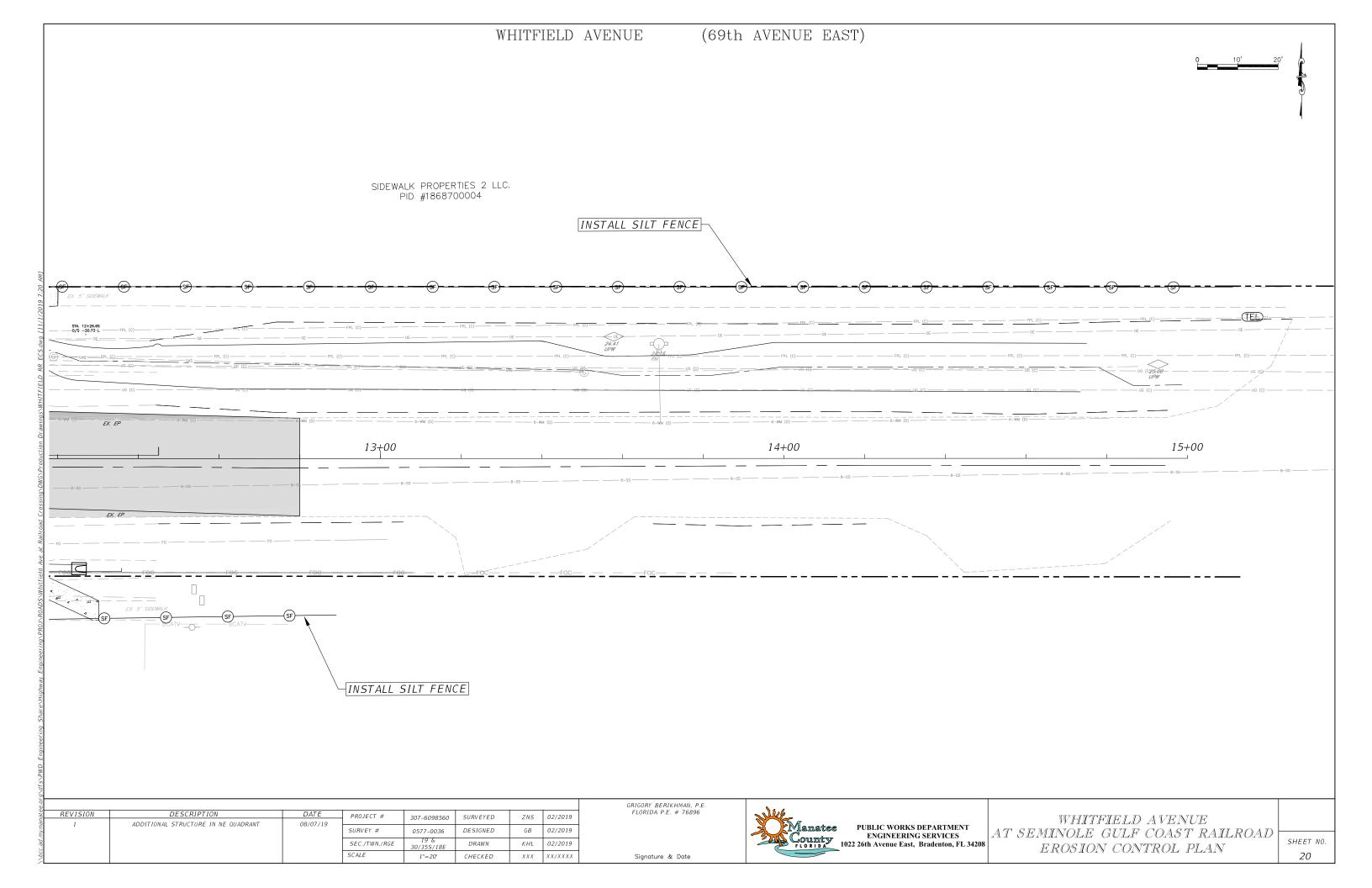
FLORIDA P.E. # 76896 GRIGORY BERIKHMAN

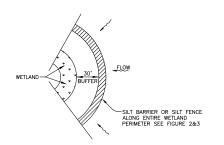
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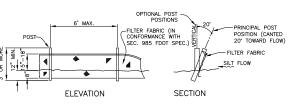
WHITFIELD AVENUE PLAN AND PROFILE XSECT STA 14+40 TO 15+00







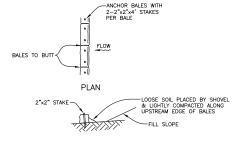
WETLAND BUFFER



NOTE: SILT FENCE TO BE PAID FOR UNDER THE CONTRACT UNIT PRICE FOR STAKED SILT FENCE (LF).

TYPICAL SILT FENCE

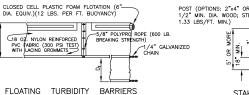
FIGURE 2



TYPICAL BALE SILT BARRIER

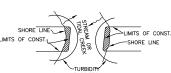
PROPOSED INLET -

ANCHOR BALES WITH 2-2"x2"x4' STAKES PER BALE



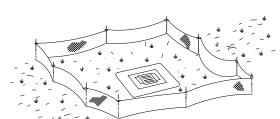
STAKED TURBIDITY BARRIER

D, =5' STD. (SINGLE PANEL FOR DEPTHS 5' OR LESS). D $_{\rm 1}$  =5' STD. (ADDITIONAL PANEL FOR DEPTHS > 5'). CURTAIN TO REACH BOTTOM UP TO DEPTHS OF 10 FEET: NWO(2) PANELS TO BE USED FOR DEPTHS GREATER THAN 10 FEET UNLESS SPECIAL DEPTH CURTAINS SPECIFICALLY CALLED FOR IN THE PLANS OR AS DETERMINED BY THE ENGINEER.



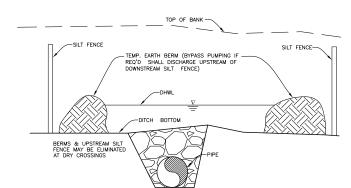
18 OZ. NYLON REINFORCED -PVC FABRIC (300 PSI TEST)

TURBIDITY BARRIERS

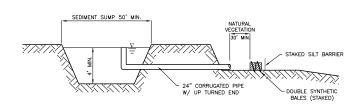


TYPE III SILT FENCE PROTECTION AROUND DITCH BOTTOM INLETS

## STAKED SILT BARRIER OR SILT FENCE PROTECTION AROUND DITCH BOTTOM INLETS



UNDERGROUND PIPE CROSSING



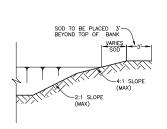
SEDIMENT SUMP SECTION



TYPICAL SWALE SECTION

EXISTING LAKE

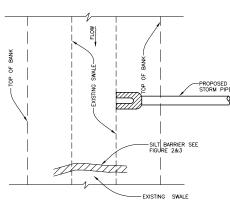
EDGE OF WATER -



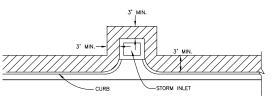
TYPICAL RETENTION/DETENTION POND SECTION



INLETS OR SIMILAR STRUCTURES



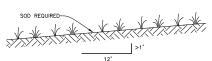
TURBIDITY BARRIER AT CONNECTION OF STORM PIPE TO EXISTING LAKE

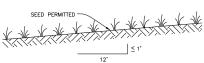


SOD ALONG CURB AND AROUND INLET

REFERENCE THE FDOT DESIGN STANDARDS LATEST EDITION FOR ALL TEMPORARY EROSION CONTROL MEASURES.

SILT BARRIER AT CONNECTION OF STORM PIPE TO EXISTING SWALE FIGURE 10





**GRASS SLOPES** 

KHL

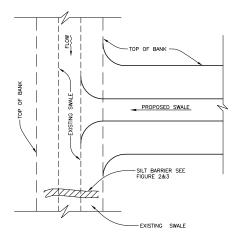
CHECKED

02/2019

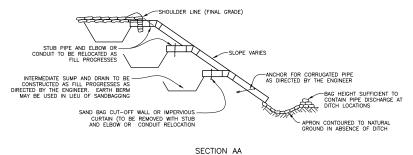
02/2019

02/2019

XXX XX/XXXX



SILT BARRIER AT CONNECTION OF SWALE TO EXISTING SWALE FIGURE 11



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	WHITFIELD AVENUE						
	AT SEMINOLE GULF COAST RAILROAD						
208	EROSION CONTROL DETAILS						

## SHEET NO. 21

REVISION DESCRIPTION PROJECT # SURVEYED ZNS 307-6098560 ADDITIONAL STRUCTURE ON NE QUADRANT 08/07/19 SURVEY # 0577-0036 DESIGNED GB

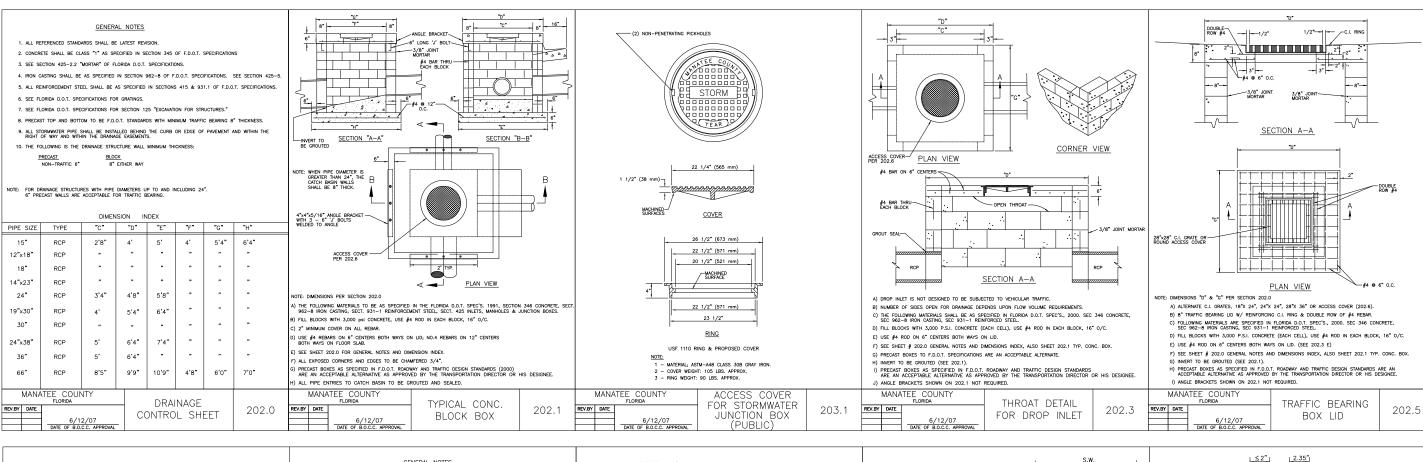
Signature & Date

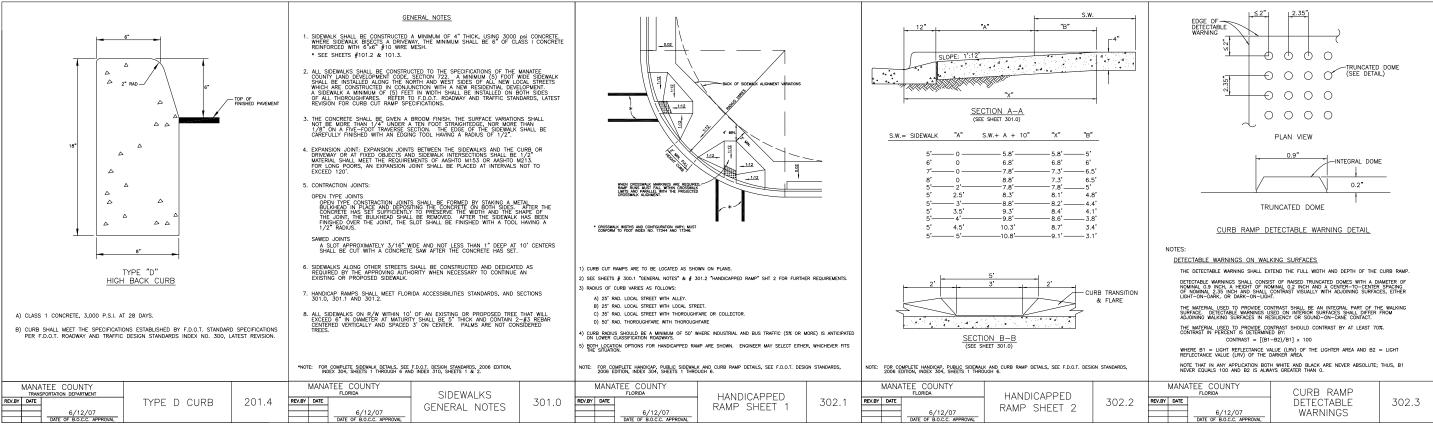
SEC./TWN./RGE

1"=20'

SCALE

TEMPORARY SLOPE DRAIN FIGURE 15





REVISION DESCRIPTION PROJECT # ZNS 02/2019 SURVEYED 307-6098560 ADDITIONAL STRUCTURE ON NE QUADRANT 08/07/19 SURVEY # 0577-0036 DESIGNED GB02/2019 02/2019 KHL SCALE XXX XX/XXXX 1"=20" CHECKED

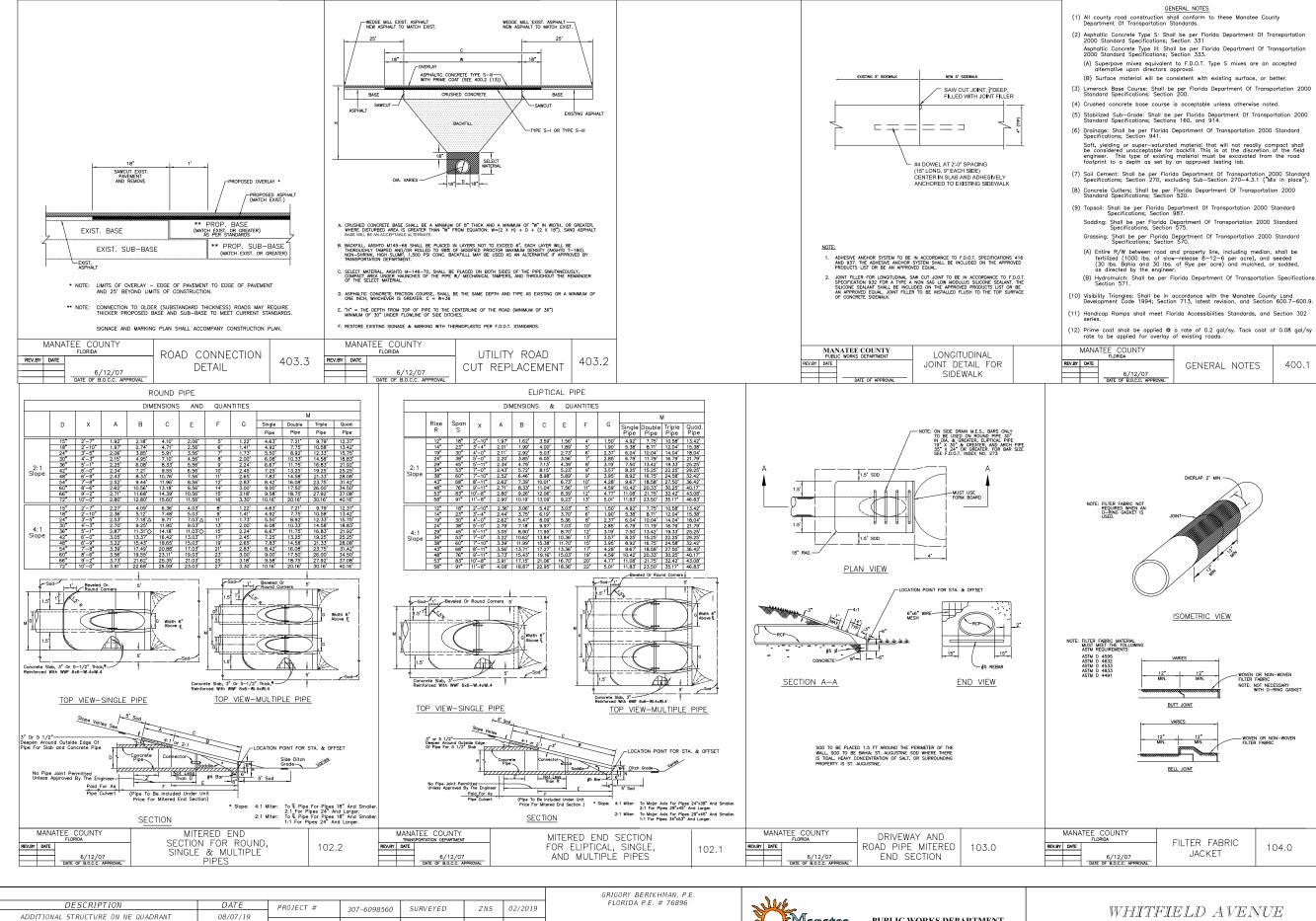
GRIGORY BERIKHMAN, P.E. FLORIDA P.E. # 76896

Signature & Date



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

WHITFIELD AVENUE AT SEMINOLE GULF COAST RAILROAD GENERAL DETAILS 1



Signature & Date

02/2019

02/2019

XX/XXXX

GB

KHL

XXX

DESIGNED

DRAWN

CHECKED

0577-0036

SURVEY #

SCALE

SEC./TWN./RGE

REVISION

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

WHITFIELD AVENUE AT SEMINOLE GULF COAST RAILROAD GENERAL DETAILS 2

