



3-Key Sheet, Sheet 1, Suggest removing sheet 5 from the Index of Roadway Plans, it is already shown as sheet 2 in accordance with the FDOT Design Manual.

Response: Agree. Sheet 5 was removed from the Index of Roadway Plans.

4-Drainage Map, Sheet 3, suggest adding begin and end project with stations.

Response: Agree. Begin and end project with stations were added on the Drainage Map.

5-Summary of Pay Items, Sheet 5, Suggest removing, already shown as sheet 2.

Response: Agree. Summary of Pay Items, Sheet 5, was removed.

6-Cross Section, Sheets 10 & 11, Suggest adding Begin and End Project with stations.

Response: Agree. Begin and End Project with stations were added on the cross section sheets.

7-Intersection Improvement Sheet, Sheet 13, Suggest Adding Begin and End Project with stations.

Response: Agree. Begin and End Project with stations were added on Intersection Improvement Sheet.

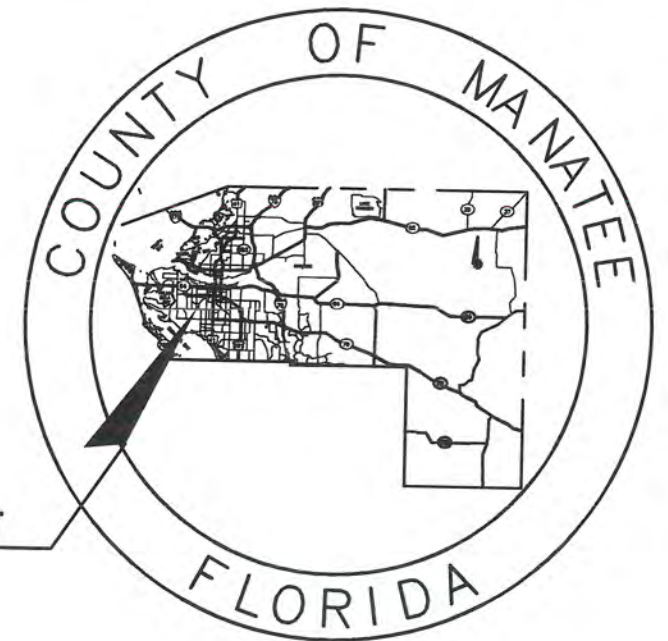
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CONTRACT PLAN COMPONENTS

ROADWAY PLANS
SIGNING & MARKING PLANS
SIGNALIZATION PLANS

STATE OF FLORIDA
COUNTY OF MANATEE

PLANS OF PROPOSED INTERSECTION IMPROVEMENTS
CORTEZ ROAD AT 43RD STREET WEST
BRADENTON, FLORIDA



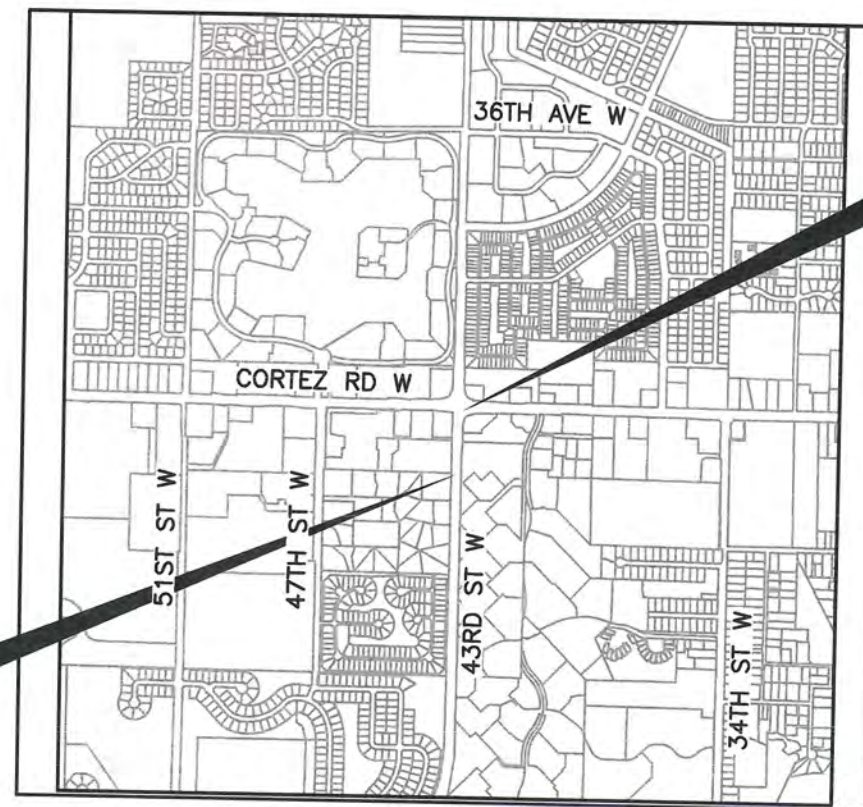
INDEX OF ROADWAY PLANS

SHEET NO.	DESCRIPTION
1	KEY SHEET
2	SUMMARY OF QUANTITIES
3	DRAINAGE MAP
4	TYPICAL SECTIONS
5	PROJECT LAYOUT
6a-6c	GENERAL NOTES & LEGEND
7-8	PLAN & PROFILE & SUMMARY OF DRAINAGE STRUCTURES
9-10	CROSS SECTIONS
11	STORMWATER POLLUTION PREVENTION PLANS
12	UTILITY ADJUSTMENT SHEET
TCP-1-TCP-5	TEMPORARY TRAFFIC CONTROL PLANS

LOCATION OF PROJECT

MANATEE COUNTY PROJECT No: 307-6076861
FDOT PROJECT No: 437145-1

BEGIN PROJECT
STA. 200+54



END PROJECT
STA. 206+31

BID SET



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 AS THE FOLLOWING WEBSITE:
<http://www.fdot.gov/programmanagement/Implemented/SpecBooks>

N.T.S
PROJECT LENGTH IS BASED ON B/L OF CONSTRUCTION

LENGTH OF PROJECT		
	LINEAR FEET	MILES
ROADWAY	577.0	0.11
EXCEPTIONS	0.00	0.00
GROSS LENGTH OF PROJECT	577.0	0.11

KEY SHEET REVISIONS	
DATE	DESCRIPTION

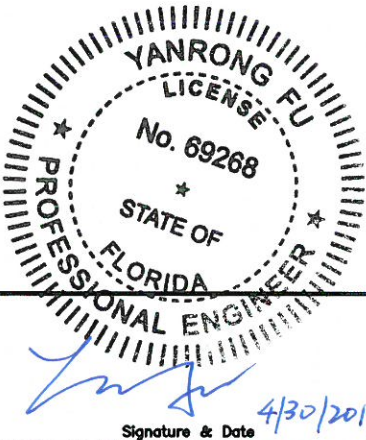


ROADWAY PLANS
PROFESSIONAL OF RECORD: YANRONG FU, P.E.
FLORIDA P.E. # 69268

CONSTRUCTION CONTRACT NO.	FISCAL YEAR	SHEET NO.
T0000	19	01

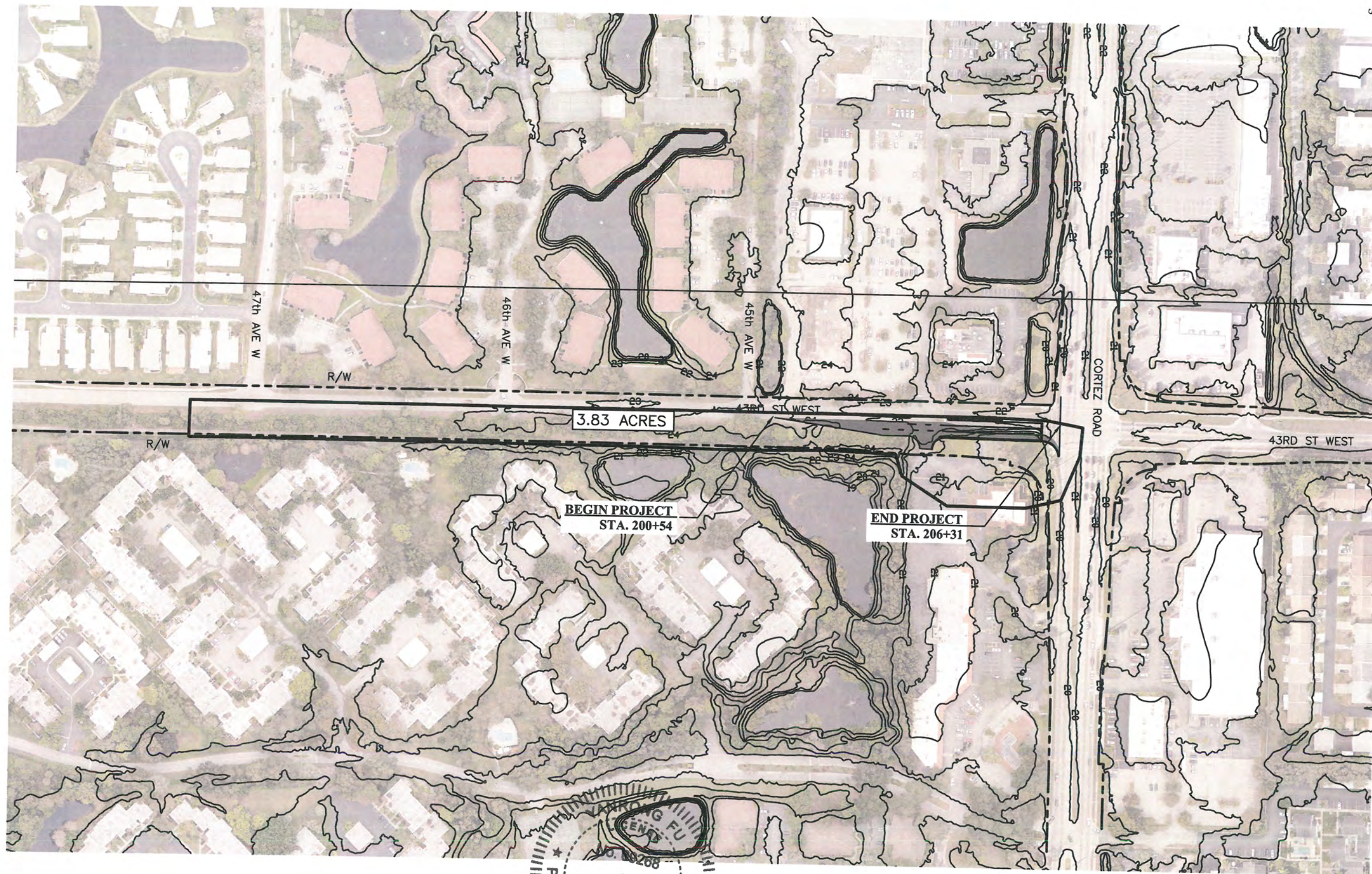
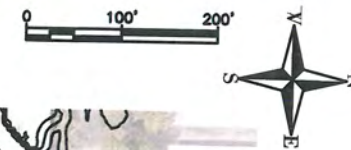
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INTERSECTION IMPROVEMENTS: 43RD STREET WEST @ CORTEZ RD				
LINE	PAY ITEM			EST.
NO.	NO.	DESCRIPTION	UNIT	QUANTITY
		MOBILIZATION & MOT		
1.	0101-1	MOBILIZATION	LS	1.00
2.	0102-1	MAINTENANCE OF TRAFFIC	LS	1.00
		ROAD WORK		
3.	0104-10-3	SEDIMENT BARRIER	LF	650.00
4.	0110-2-1	CLEARING & GRUBBING, INCLUDING CONCRETE CURB/SLAB/SIDEWALK REMOVAL	AC	0.50
5.	0120-1	REGULAR EXCAVATION	CY	288.00
6.	0120-6	EMBANKMENT (REGULAR)	CY	170.00
7.	0160-4	12" TYPE B STABILIZATION (LBR 60)	SY	1,513.00
8.	0285-709	10" OPTIONAL BASE GROUP 9	SY	1,446.00
9.	0327-70-1	MILLING EXISTING ASPHALT PAVEMENT, 1" AVERAGE DEEP	SY	2,330.00
10.	0334-1-23	2 " SUPER PAVE ASPHALTIC CONC, TRAFFIC C, SP 12.5	TN	144.00
11.	0337-7-42	1" ASPHALT CONCRETE FRICTION COURSE, TRAFFIC C, FC 9.5	TN	292.00
12.	0430-174-215	PIPE CULVERT, OPTIONAL MATERIAL , OTHER SHAPE (ERC)12"X18"/SD	LF	48.00
13.	0430-982-125	MES, OPTIONAL, (ERC) 12X18"/SD	EA	2.00
14.	0520-1-10	CONCRETE CURB & GUTTER, TYPE F, INCLUDING CONCRETE FLUMES	LF	278.00
15.	0522-1	CONCRETE SIDEWALK 4" THICK, INCLUDING HANDICAP RAMP	LF	10.00
16.	0527-2	DETECTABLE WARNINGS	SF	20.00
17.	0570-1-2	PERFORMANCE TURF, SOD	SY	900.00



DATE	DESCRIPTION	DATE	PROJECT #	437145-1	SURVEYED	FDC	09/2017	 PUBLIC WORKS DEPARTMENT ENGINEERING SERVICES 1022 26th Avenue East, Bradenton, FL 34208	INTERSECTION IMPROVEMENTS OF CORTEZ ROAD AT 43RD STREET WEST SUMMARY OF QUANTITIES	SHEET NO. 02
			SURVEY #	0577-0036	DESIGNED	PBF	05/2018			
			SEC./TWN./RGE	4/9-35S-17E	DRAWN	KHL	05/2018			
			SCALE	NTS	CHECKED	YF	05/2018			

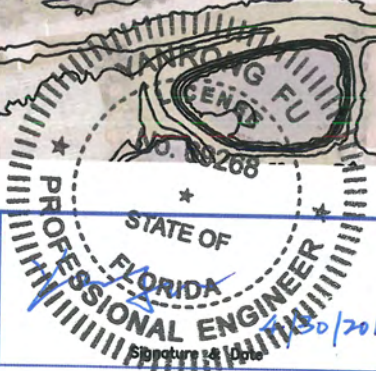
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BEGIN PROJECT
STA. 200+54

END PROJECT
STA. 206+31

3.83 ACRES



DATE	DESCRIPTION	DATE	PROJECT #	437145-1	SURVEYED	FNC	09/2017
			SURVEY #	0577-0036	DESIGNED	PBF	05/2018
			SEC./TWN./RGE	4/9-35S-17E	DRAWN	KHL	05/2018
			SCALE	1"=200'	CHECKED	YF	05/2018

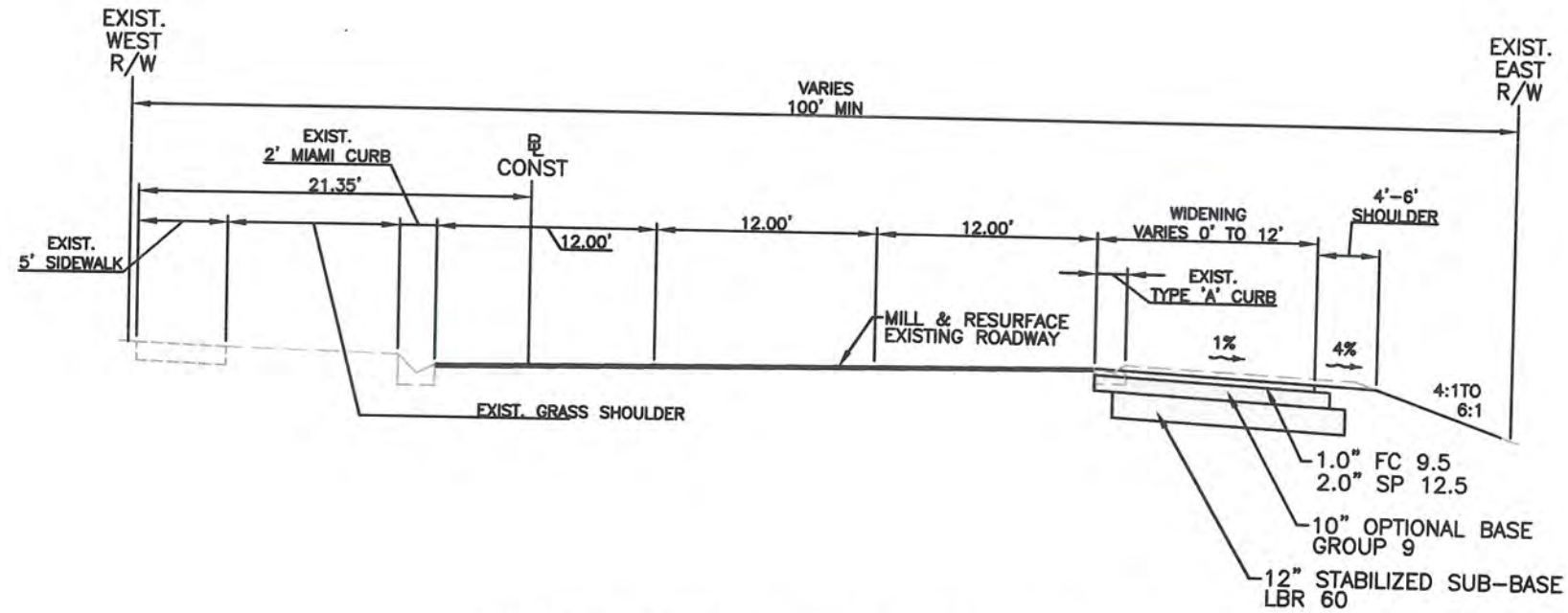


PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

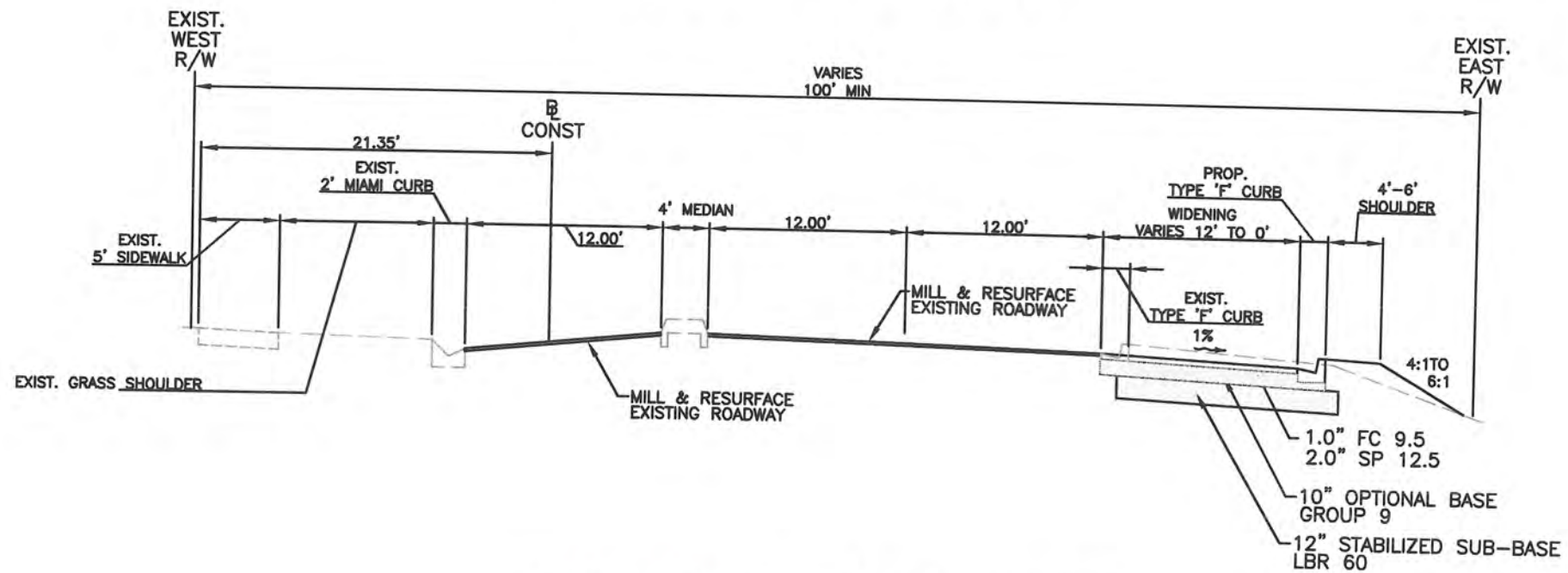
INTERSECTION IMPROVEMENTS OF
CORTEZ ROAD AT 43RD STREET WEST
DRAINAGE MAP

SHEET NO.
03

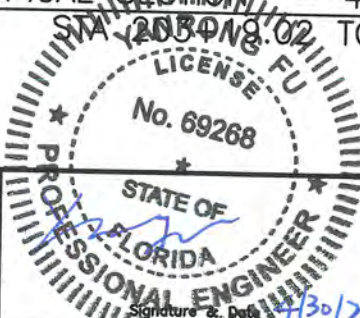
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TYPICAL SECTION - 43rd STREET WEST
STA 200+54.19 TO 203+19.02



TYPICAL SECTION - 43rd STREET WEST
STA 203+08.02 TO 206+05.51



DATE	DESCRIPTION	DATE	PROJECT #	437145-1	SURVEYED	FDC	09/2017
			SURVEY #	0577-0036	DESIGNED	PBF	05/2018
			SEC./TWN./RGE	4/9-35S-17E	DRAWN	KHL	05/2018
			SCALE	NTS	CHECKED	YF	05/2018

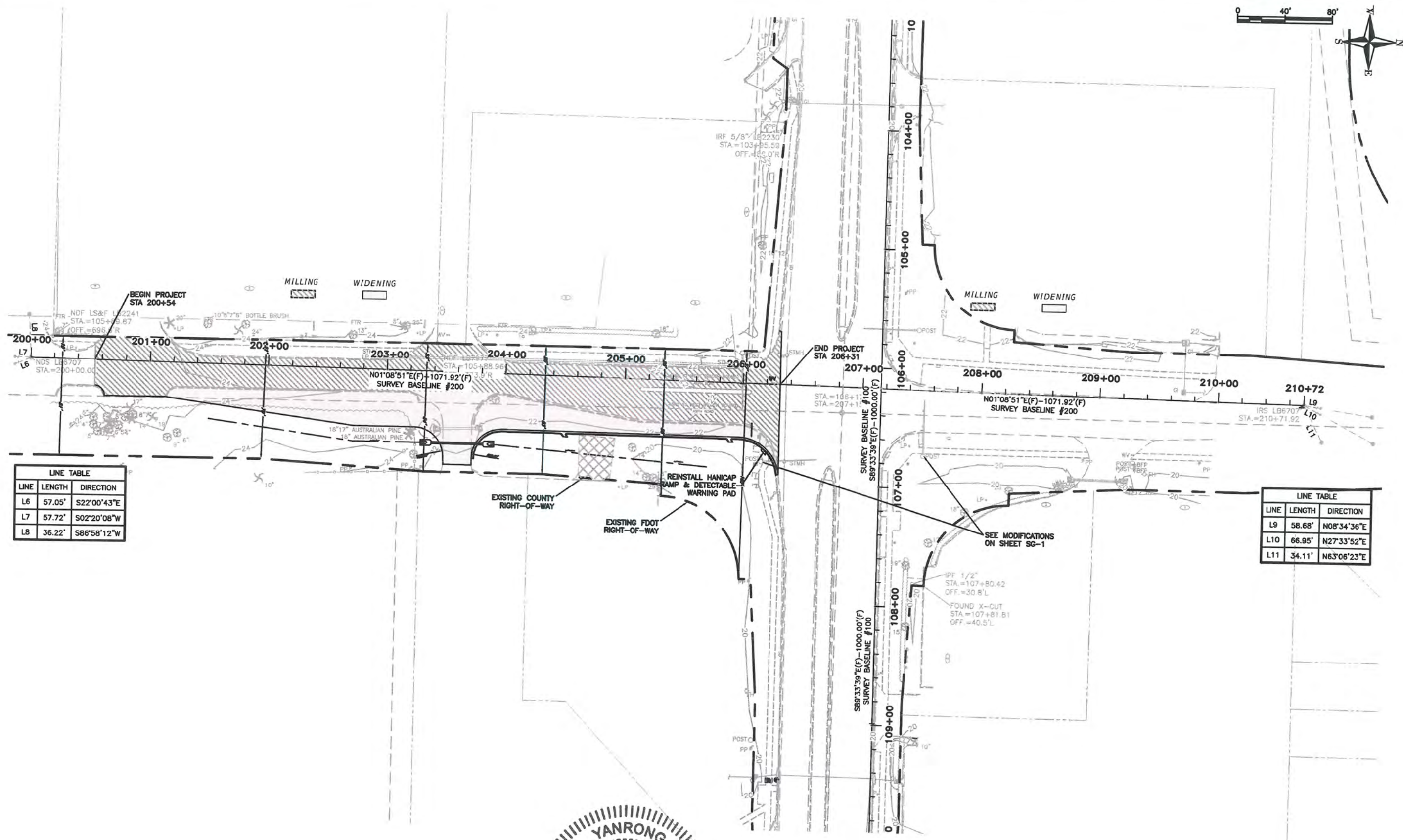


PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

INTERSECTION IMPROVEMENTS OF
CORTEZ ROAD AT 43RD STREET WEST
TYPICAL SECTION

SHEET NO.
04

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LINE TABLE		
LINE	LENGTH	DIRECTION
L6	57.05'	S22°00'43"E
L7	57.72'	S02°20'08"W
L8	36.22'	S86°58'12"W

LINE TABLE		
LINE	LENGTH	DIRECTION
L9	58.68'	N08°34'36"E
L10	66.95'	N27°33'52"E
L11	34.11'	N63°06'23"E



DATE	DESCRIPTION	DATE	PROJECT #	437145-1	SURVEYED	FDC	09/2017
			SURVEY #	0577-0036	DESIGNED	PBF	05/2018
			SEC./TWN./RGE	4/9-35S-17E	DRAWN	KHL	05/2018
			SCALE	NTS	CHECKED	YF	05/2018



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

INTERSECTION IMPROVEMENTS OF
CORTEZ ROAD AT 43RD STREET WEST
PROJECT LAYOUT

SHEET NO.
5

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GENERAL NOTES

1. ALL CONSTRUCTION ACTIVITIES SHALL BE COORDINATED WITH THE PROJECT MANAGEMENT DIVISION. THE PROJECT MANAGER IS: MIKE STURM AND CAN BE REACHED AT (941) 708-7450; EXT. 7332.
2. SITE VISITS ARE MANDATORY FOR ALL BIDDERS. THESE SITE VISITS CAN BE ARRANGED THROUGH THE PROJECT MANAGER.
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 "THE NATIONAL GEODETIC VERTICAL DATUM OF 1988", (NGVD '88).
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MEETING ALL CONDITIONS AND REQUIREMENTS OF ALL PERMITS AND ALL GOVERNING 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 DEEM NECESSARY TO ARRIVE AT THEIR OWN CONCLUSIONS REGARDING THE ACTUAL CONDITIONS THAT WILL BE ENCOUNTERED, AND UPON WHICH THEIR BIDS WILL BE BASED.
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 APPROPRIATE BID ITEM.
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 FOREMAN SHALL SPEAK AND UNDERSTAND ENGLISH AND SHALL BE AVAILABLE AT ALL TIMES FOR TIMELY RESOLUTION OF PROJECT-RELATED ISSUES.
13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COMPLETE COORDINATION OF CONSTRUCTION SCHEDULING BETWEEN CONTRACTOR AND ALL UTILITY AGENCIES.
NOTE:
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 REPAIRED 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.
- SAFETY**
17. 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, 29 CFR 1926.650, SUBPART P, AS AMENDED. THE CONTRACTOR SHALL INCLUDE IN THE TOTAL BID PRICE ALL COSTS FOR COMPLIANCE WITH THESE REGULATIONS.
18. THE CONTRACTOR SHALL USE SHEET PILING, SHEETING, BRACING, ETC., AS REQUIRED IN ALL EXCAVATION AREAS AND CONFORM TO ALL OSHA REQUIREMENTS.
19. THE CONTRACTOR SHALL USE ALL NECESSARY SAFETY PRECAUTIONS TO AVOID CONTACT WITH OVERHEAD AND UNDERGROUND UTILITIES, POWER LINES, ETC.
20. THESE DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY. THIS EXCLUSION DOES NOT ALLEVIATE THE CONTRACTOR FOR PROVIDING A CONTINUOUS SAFE WORKSPACE.
- ENVIRONMENTAL**
21. CONTRACTOR IS RESPONSIBLE FOR INSTALLATION ALL SEDIMENT AND EROSION CONTROL (SEC) DEVICES (E.G., BARRIERS, SEDIMENT TRAPS/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.
22. THE CONTRACTOR SHALL PROVIDE AND INSTALL ALL NECESSARY STORM WATER, EROSION, AND SEDIMENTATION CONTROL MEASURES IN ACCORDANCE WITH THE FDEP "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.
23. 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.
24. 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.
25. SEDIMENT BASINS AND TRAPS, PERIMETER BERMS, SEDIMENT BARRIERS, VEGETATIVE BUFFERS, OR OTHER MEASURES INTENDED TO TRAP SEDIMENT AND/OR 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 OPERATIVE 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.
26. ALL SWALES, DITCHES, AND CHANNELS LEADING FROM THE SITE SHALL BE PROTECTED FROM SILTATION AND EROSION DURING CONSTRUCTION AND BE SODDED WITHIN THREE (3) DAYS OF EXCAVATION.
27. 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 SCREENS.
28. ALL EROSION AND POLLUTION CONTROL DEVICES SHALL BE CHECKED REGULARLY, ESPECIALLY AFTER EACH RAINFALL AND SHALL BE CLEANED OUT AND/OR REPAIRED AS REQUIRED.
29. 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.

30. FOR MORE INFORMATION, SEE THE EROSION CONTROL DETAIL SHEET INCLUDED IN THE PLANS.

RIGHT-OF-WAY

31. ALL CONSTRUCTION ACTIVITIES SHALL BE LIMITED TO WITHIN THE MANATEE COUNTY/FDOT RIGHT-OF-WAY AND/OR EASEMENTS SHOWN ON THE DRAWINGS.
32. 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 COST TO THE OWNER.
33. 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.
34. 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.
35. 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.
36. 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.
37. 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.

UTILITIES

38. 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 RELOCATED SINCE THE PREPARATION OF THESE PLANS. THE CONTRACTOR SHALL VERIFY, PRIOR TO CONSTRUCTION, THE LOCATIONS, ELEVATIONS 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 ENGINEER'S ATTENTION FOR RESOLUTION. UTILITIES DESIGNATED VV, VH, AND VWH 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.
39. 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 OWNER.
40. 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.
41. 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 ARRANGE HIS SCHEDULE TO ALLOW UTILITY OWNERS TIME FOR THE NECESSARY RELOCATION AND ADJUSTMENT OF UTILITIES AND RELATED STRUCTURES.
42. A FLORIDA POWER AND LIGHT SPECIAL PROVISION IS THAT THE TYPE OF EQUIPMENT USED IN THE INSTALLATION OF MAST ARMS/FOUNDATIONS, OVERHEAD/CANTILEVER SIGNS/FOUNDATIONS, 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 ITEMS. PLEASE REFER TO THE SPECIAL CONDITIONS IN THE UTILITY WORK SCHEDULE AND UTILITY COORDINATION.
43. 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.
44. 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 ISO, 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. 5027).

DRAINAGE AND GRADING

45. ALL CONSTRUCTION IS TO BE STAKED IN THE FIELD BY OR UNDER THE SUPERVISION OF A FLORIDA REGISTERED LAND SURVEYOR.
46. THE CONTRACTOR IS TO PROVIDE THE ENGINEER OF RECORD WITH REPRODUCIBLE RECORD DRAWINGS SHOWING ALL IMPROVEMENT LOCATIONS AND ELEVATIONS IN ACCORDANCE WITH LATEST MANATEE COUNTY TRANSPORTATION DEPARTMENT STANDARDS AND SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT (SWFWMCD) STANDARDS. THE CONTRACTOR SHALL ALSO PROVIDE FIVE SETS OF PRINTS, SIGNED AND SEALED BY A PROFESSIONAL LAND SURVEYOR, OF THE RECORD DRAWINGS TO THE ENGINEER 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, UNDERDRAIN AND 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 (NNL₂), AT HIGH WATER ELEVATION (HWL AND MITIGATION AND/OR LITTORAL SHELF AREAS.
47. 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 COMMENCEMENT OF CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING THE SEDIMENTATION BARRIERS IN A WORKING MANNER FOR THE DURATION OF CONSTRUCTION AND SHOULD BE CHECKED DAILY. SILTATION 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 OCCUR, THE CONTRACTOR IS RESPONSIBLE FOR INSTALLING APPROPRIATE EROSION CONTROL IMMEDIATELY. AN INSPECTION LOG SHALL BE MAINTAINED AND AVAILABLE ON-SITE AT ALL TIMES. STORMWATER TREATMENT FACILITIES INCLUDING OUTFALL PER DETAIL ARE TO BE CONSTRUCTED EARLY IN SITE DEVELOPMENT, WITH NO DET. SITE UNTREATED RUN-OFF OCCURRING DURING CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR REMOVING TEMPORARY EROSION CONTROL DEVICES FOLLOWING COMPLETION OF ALL CONSTRUCTION AND FINAL STABILIZATION.
48. ALL PIPE LENGTHS SHOWN ON PLAN ARE MEASURED TO THE CENTER OF THE MITERED END SECTION. REFER TO MITERED END SECTION DETAIL FOR LENGTH OF PIPE TO BE INCLUDED IN PERMANENT MITERED END SECTION.
49. TOPOGRAPHIC AND PROPERTY SURVEYS SHOWING 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 THE INFORMATION PROVIDED.

50. 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.
51. 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.
52. 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 FDOT INDEX 505.
53. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR ALL STRUCTURES PRIOR TO INSTALLATIONS.
54. REFER TO CONSTRUCTION TECHNICAL SPECIFICATIONS FOR COMPACTION REQUIREMENTS, GRASSING/SODDING REQUIREMENTS, AND PAVING CONSTRUCTION MATERIAL SPECIFICATIONS.
55. ALL FILL AREAS ARE TO BE CONSTRUCTED IN 12" MAXIMUM LIFTS.
56. ON SLOPES GREATER THAN 3:1 PEGGING OR PINNING OF SOD MAY BE REQUIRED.
57. 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 FOR JUNCTION BOXES, 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 "X" 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.
58. 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.
59. 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

60. ALL RESTORATION WORK PERFORMED THROUGHOUT THE PROJECT SHALL CONFORM TO EXISTING LINES AND GRADES UNLESS SHOWN OTHERWISE.
61. 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 VEGETATION, OUTSIDE OF RIGHT-OF-WAY DISTURBED DURING CONSTRUCTION SHALL BE REPLACED WITH EQUIVALENT MATERIAL BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
62. 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.
63. 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.

VERTICAL DATUM
NAVD 88

DATE	DESCRIPTION	DATE	PROJECT #	437145-1	SURVEYED	FDC	09/2017
			SURVEY #	0577-0036	DESIGNED	PBF	05/2018
			SEC./TWN./RGE	4/9-355-17E	DRAWN	KHL	05/2018
			SCALE		CHECKED	YF	05/2018



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

INTERSECTION IMPROVEMENTS OF
CORTEZ ROAD AT 43RD STREET WEST
GENERAL NOTES & LEGEND

SHEET NO.
6a

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

**FLORIDA POWER & LIGHT
DISTRIBUTION**
GREG COKER
1253 12TH AVENUE EAST
PALMETTO, FL 34221
(941) 723-4430
FAX: (941) 723-4444
EMERGENCY:
1-800-4-OUTAGE
Greg.Coker@fpl.com

**FLORIDA POWER & LIGHT
TRANSMISSION
DALIANA AMADOR
15430 ENDEAVOR DRIVE
JUPITER, FL 33478
(561) 904-3665
Gary.n.peterson@fpl.com**

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(941) 748-0747 EXT. 13
FAX: (941) 750-9364
hans_roese@doh.state.fl.us

**CROWN CASTLE UTILITY
COMPANY**
LOUIS A. SIMONE
4511 N HIMES AVE #210
TAMPA, FL 33614
(772) 579-8956
lasimone@sncomm.com

PEACE RIVER ELECTRIC
COOPERATIVE, INC.
P.O. BOX 1310
WACHULA, FL 33873
ERIN RUHTZ
(863) 767-4660
erin.ruhtz@preco.coop

MANATEE COUNTY
PUBLIC WORK DEPT.
TRAFFIC ENGINEERING
MUKUNDA GOPALAKRISNA, P.E.
(941) 749-3500 EXT. 7813
FAX: (941) 749-3571
mukunda.gopalakrishna@mymanatee.org

CHARTER COMMUNICATIONS
JAMES CRUZAN
5413 E. STATE ROAD 64
BRADENTON, FL. 34208-5535
(941) 748-3816 EXT. 24051
james.cruzan@charter.com

DEPARTMENT OF
ENVIRONMENTAL PROTECTION
ED WATSON
13051 N. TELECOM PKWY
TEMPLE TERRACE, FL 33637
PHONE: (813) 470-5875
FAX: (813) 470-5993

ABBREVIATIONS

	MAIN
	SERVICE LINE
	PROPOSED EASEMENT
	FIRE HYDRANT
	VALVE
	SANITARY SEWER MANHOLE
	BLOW OFF ASSEMBLY
	REDUCER
	TEE
	HORIZONTAL BEND
	VERTICAL BEND
	PLUG
	MASTER METER ASSEMBLY
	SERVICE LINE & METER
	DOUBLE SERVICE

INTERSECTION IMPROVEMENTS OF
CORTEZ ROAD AT 43RD STREET WEST
GENERAL NOTES & LEGEND
CONTINUED

SHEET NO.
6b

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ELLIPTICAL PIPE														
DIMENSIONS & QUANTITIES														
Rise R	Span S	X	A	B	C	E	F	G	M					
									Single Pipe	Double Pipe	Triple Pipe	Quad. Pipe		
2:1 Slope	12"	18"	2'-10"	1.87	1.62	3.50	1.56	4	1.50	4.92	7.75	10.58	13.42	
	14"	22"	3'-4"	2.01	1.99	4.00	1.80	5	1.80	5.38	8.71	12.04	15.36	
	16"	26"	4'-0"	2.11	2.92	5.03	2.73	6	2.37	6.04	10.04	14.04	18.04	
	18"	30"	4'-6"	2.20	3.85	6.05	3.56	7	2.85	6.79	11.79	16.79	21.79	
	20"	34"	5'-0"	2.28	4.79	7.13	4.30	8	3.19	7.50	13.42	18.33	23.25	
	24"	42"	6'-0"	2.43	6.46	8.95	5.89	9	3.57	8.23	15.29	22.29	29.25	
	28"	50"	7'-0"	2.55	8.46	10.91	7.75	10	4.28	8.87	18.58	27.50	36.42	
	32"	58"	8'-0"	2.65	10.01	12.91	9.12	11	4.99	10.42	20.33	30.25	40.17	
	36"	66"	9'-0"	2.73	11.04	14.04	10.36	12	5.69	11.08	21.79	32.42	43.08	
	40"	74"	10'-0"	2.80	12.08	15.03	11.57	13	6.01	11.83	23.50	35.17	46.83	
4:1 Slope	12"	18"	2'-10"	2.38	3.00	5.42	3.03	5	1.50	4.92	7.75	10.58	13.42	
	14"	22"	3'-4"	2.44	3.75	6.16	3.70	6	1.80	5.38	8.71	12.04	15.36	
	16"	26"	4'-0"	2.52	5.47	8.09	5.36	8	2.37	6.04	10.04	14.04	18.04	
	18"	30"	4'-6"	2.59	6.47	9.09	6.36	9	2.85	6.79	11.79	16.79	21.79	
	20"	34"	5'-0"	2.65	7.10	9.97	7.03	10	3.19	7.50	13.42	18.33	23.25	
	24"	42"	6'-0"	2.79	9.00	11.90	8.70	12	4.28	8.87	18.58	27.50	36.42	
	28"	50"	7'-0"	2.82	10.62	13.84	10.36	13	5.07	9.25	15.29	22.29	29.25	
	32"	58"	8'-0"	2.88	11.99	15.36	11.70	14	5.69	9.92	16.75	24.58	32.42	
	36"	66"	9'-0"	2.93	13.71	17.27	13.36	15	6.28	10.67	18.58	27.50	36.42	
	40"	74"	10'-0"	2.97	15.43	19.18	15.03	16	6.87	11.42	20.33	30.25	40.17	
SECTION														
TOP VIEW-SINGLE PIPE														
TOP VIEW-MULTIPLE PIPE														
MITERED END SECTION FOR ELLIPTICAL, SINGLE, AND MULTIPLE PIPES														
MANATEE COUNTY TRANSPORTATION DEPARTMENT														
6/12/07 DATE OF B.O.C.C. APPROVAL														
102.1														

TYPE "F" BARRIER CURB & GUTTER														
A) CLASS 1 CONCRETE 3,000 P.S.I. AT 28 DAYS.														
B) CURB AND GUTTER SHALL MEET THE SPECIFICATIONS ESTABLISHED BY FLORIDA D.O.T. STANDARD SPECIFICATIONS PER F.D.O.T. ROADWAY AND TRAFFIC DESIGN STANDARDS INDEX NO. 300, LATEST REVISION.														
MANATEE COUNTY TRANSPORTATION DEPARTMENT														
6/12/07 DATE OF B.O.C.C. APPROVAL														
TYPE F CURB & GUTTER														
201.2														

HANDICAPPED RAMP SHEET 1														
6/12/07 DATE OF B.O.C.C. APPROVAL														
302.1														

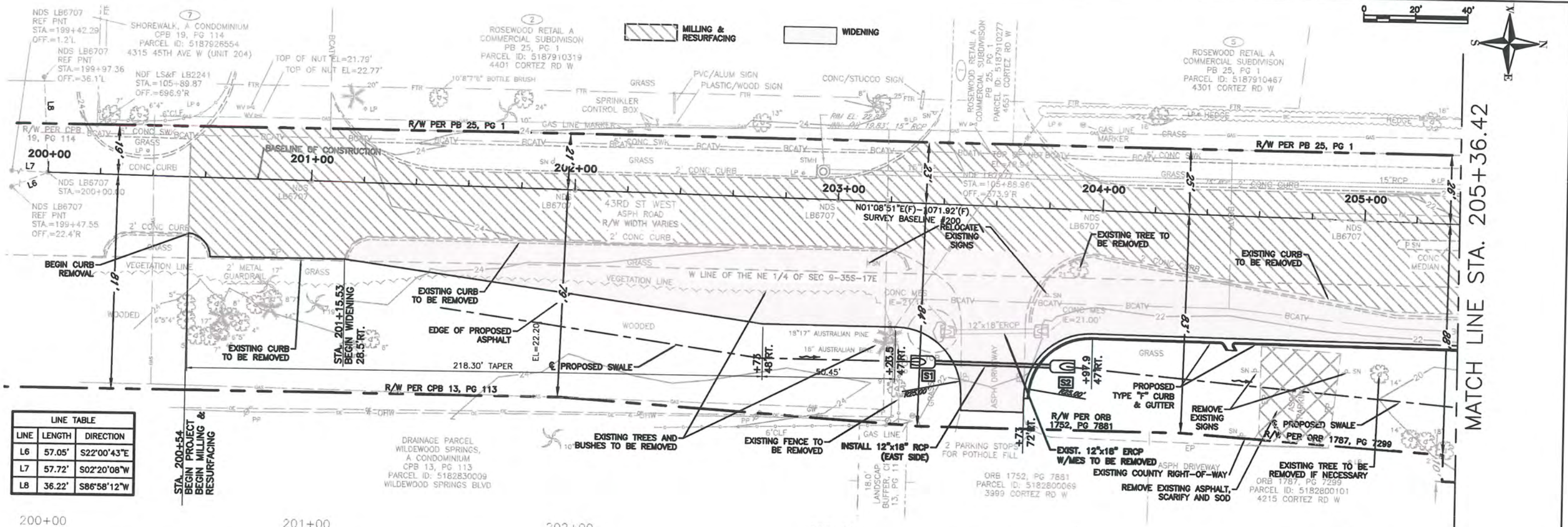
CURB RAMP DETECTABLE WARNING														
6/12/07 DATE OF B.O.C.C. APPROVAL														
CURB RAMP DETECTABLE WARNINGS														
302.3														

YANRONG FU
LICENSE FU
No. 69268
STATE OF FLORIDA
PROFESSIONAL ENGINEER
Signature & Date 4/30/2019

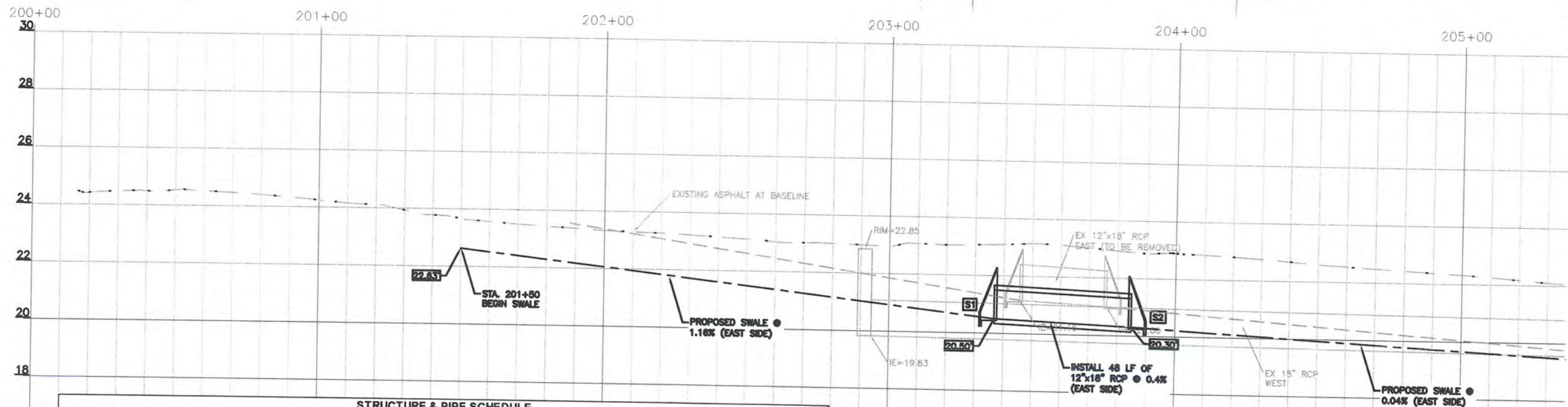
Manatee County
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

INTERSECTION IMPROVEMENTS OF
CORTEZ ROAD AT 43RD STREET WEST
GENERAL NOTES & LEGEND
CONTINUED

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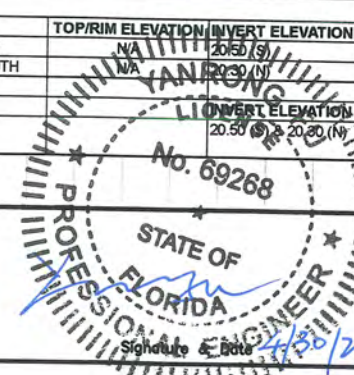


LINE TABLE		
LINE	LENGTH	DIRECTION
L6	57.05'	S22°00'43"E
L7	57.72'	S02°20'08"W
L8	36.22'	S86°58'12"W



STRUCTURE & PIPE SCHEDULE			
STR.#	STATION, OFFSET	STRUCTURE SCHEDULE	TOP/RIM ELEVATION / INVERT ELEVATION
16	S-1 203+37, 60' RT	CONSTRUCT MITERED END SECTION PER M.C. STANDARD 103.0 AND CONNECT (P-1) TO THE NORTH	NA / 20.50 (N)
	S-2 203+85, 60' RT	CONSTRUCT MITERED END SECTION PER M.C. STANDARD 103.0 AND CONNECT (P-1) FROM THE SOUTH	NA / 20.30 (N)
14	PIPE#	STATION, OFFSET	PIPE SCHEDULE
	P-1	STA 203+37, 60' RT - STA 203+85, 60' RT	INSTALL 48 LF OF 12"x18" RCP FROM MES (S-1) TO THE NORTH TO MES (S-2)

ELEVATIONS BASED UPON NAVD 1988



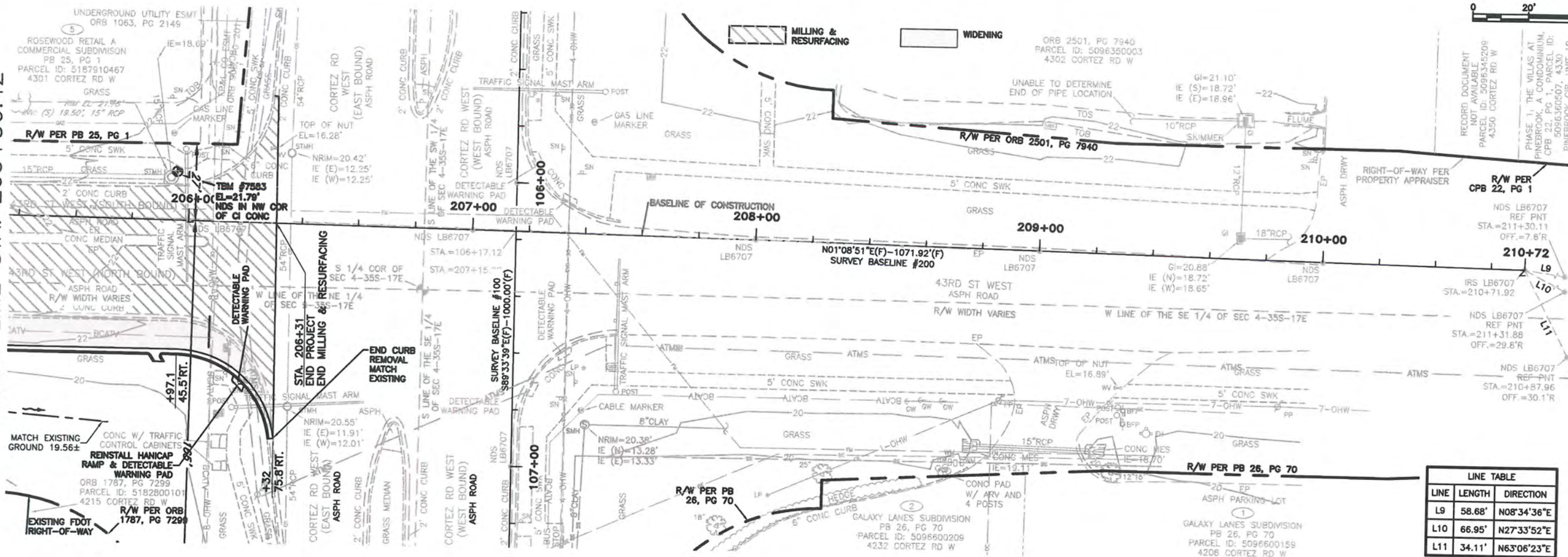
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INTERSECTION IMPROVEMENTS OF
CORTEZ ROAD AT 43RD STREET WEST
PLAN & PROFILE 1

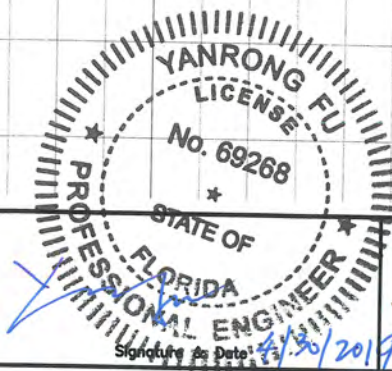
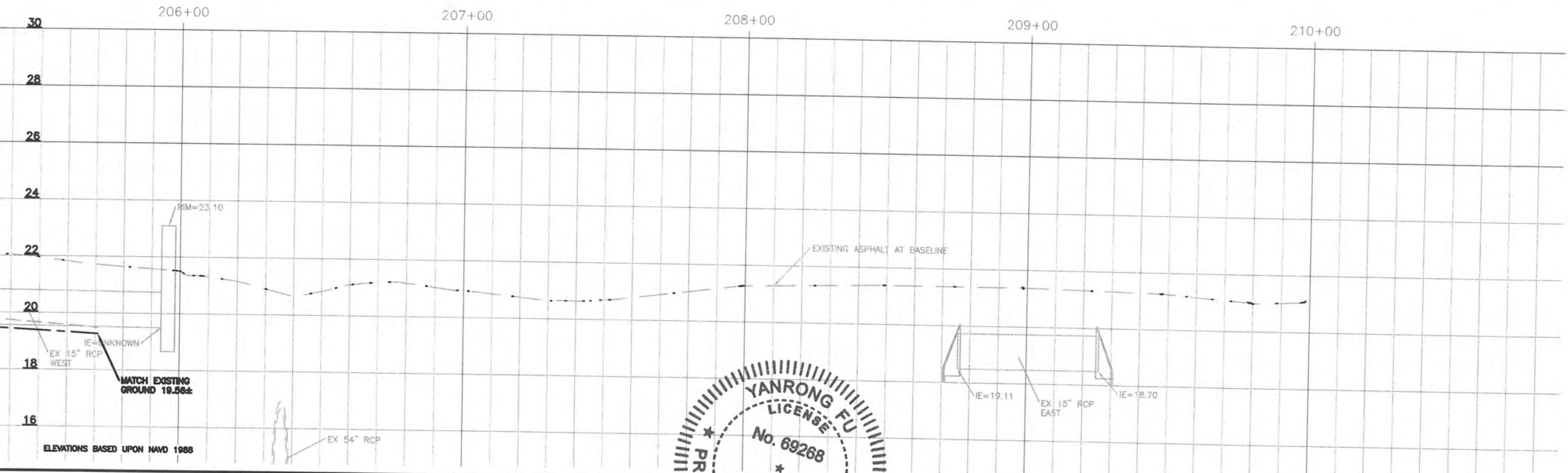
SHEET NO.
7

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MATCH LINE STA. 205+36.42



LINE TABLE		
LINE	LENGTH	DIRECTION
L9	58.68'	N08°34'36\"E
L10	66.95'	N27°33'52\"E
L11	34.11'	N63°06'23\"E

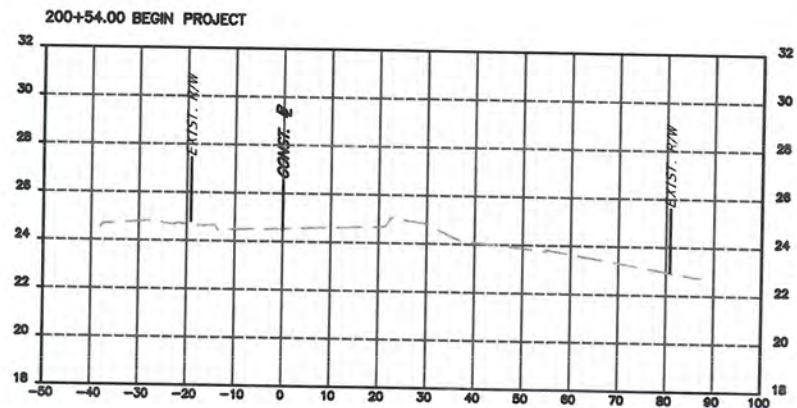
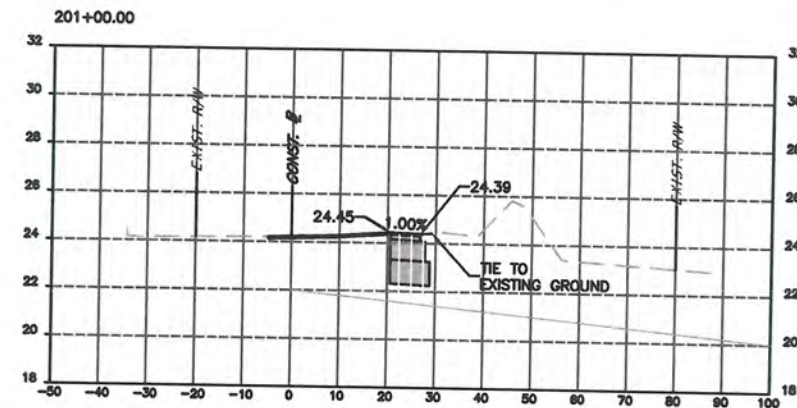
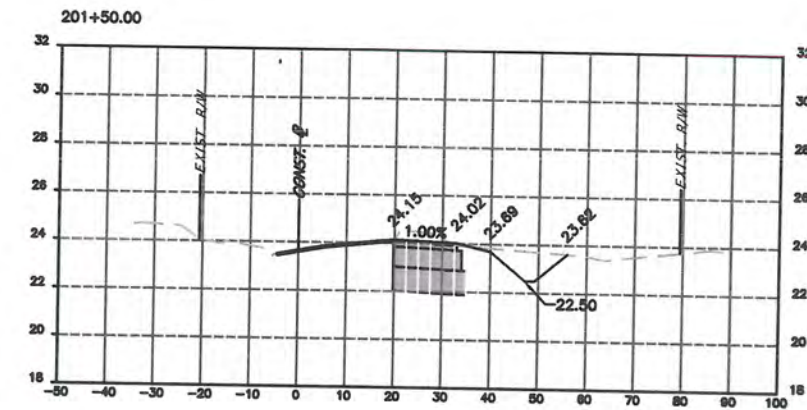


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ENGINEERING SERVICES
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INTERSECTION IMPROVEMENTS OF
CORTEZ ROAD AT 43RD STREET WEST
PLAN & PROFILE 2

SHEET NO.
8

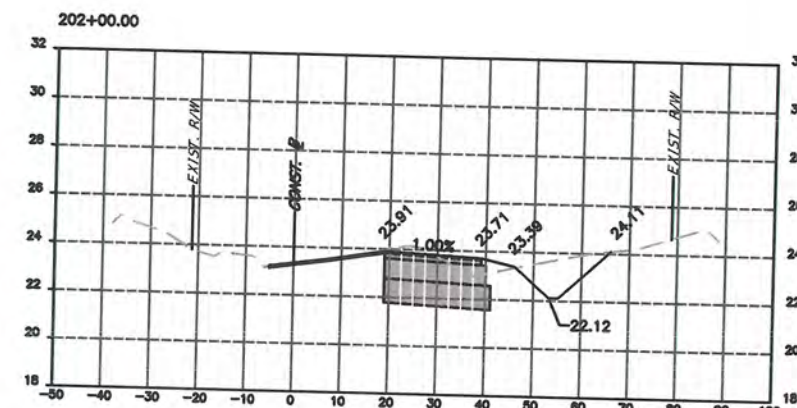
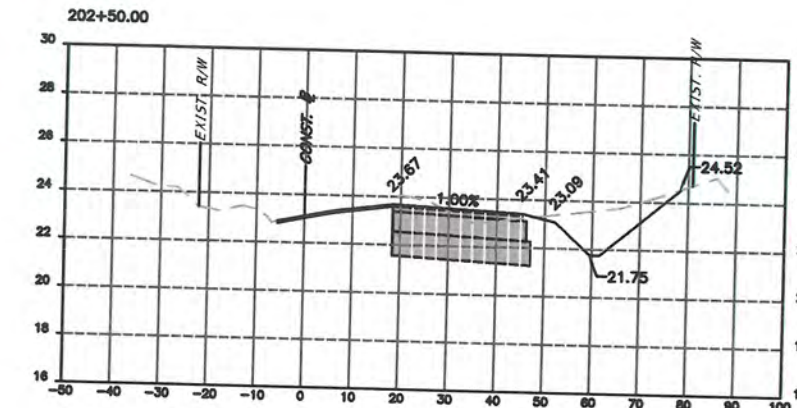
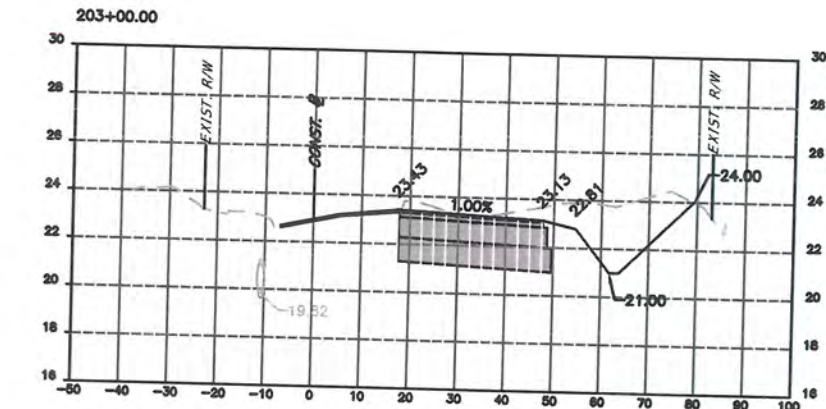
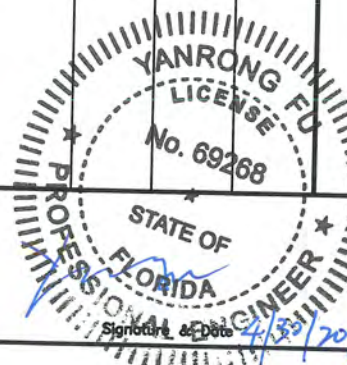
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Regular Exc.		Embankment	
A ft ²	V ft ³	A ft ²	V ft ³

15.6		0.1	
390		2.5	

0		0	
0		0	
0		0	



Regular Exc.		Embankment	
A ft ²	V ft ³	A ft ²	V ft ³

59.0		0	
2223		7.5	
29.9		0.3	
1255		55	
20.3		1.9	
898		54	

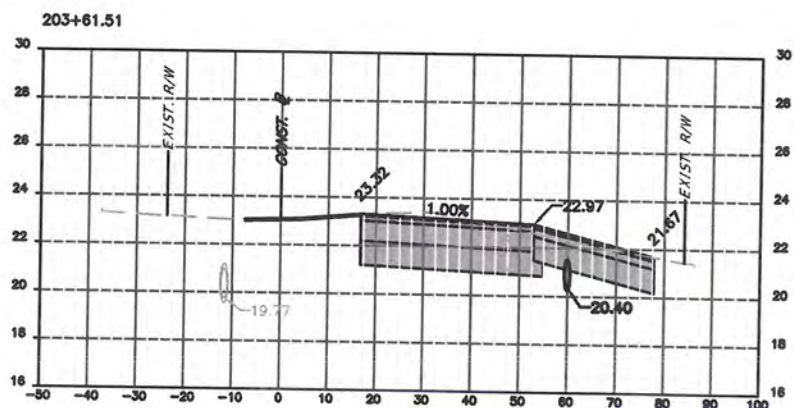
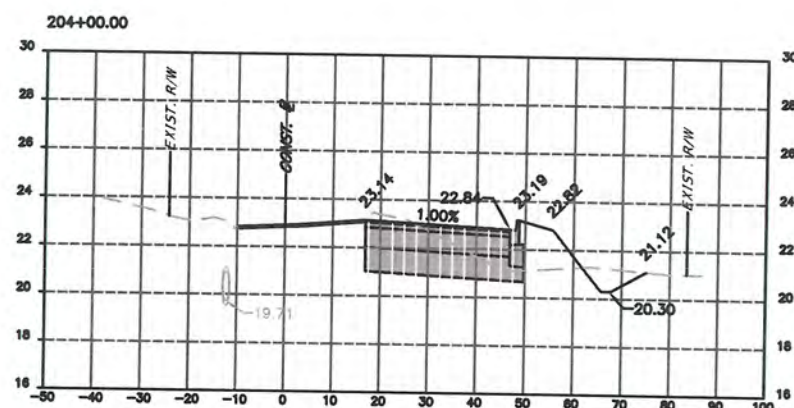
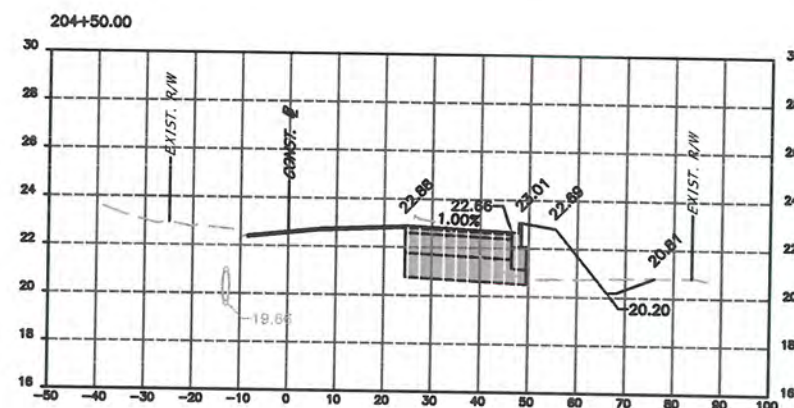
DATE	DESCRIPTION	DATE	PROJECT #	437145-1	SURVEYED	FDC	09/2017
			SURVEY #	0577-0036	DESIGNED	PBF	05/2018
			SEC./TWN./RGE	4/9-35S-17E	DRAWN	KHL	05/2018
			SCALE		CHECKED	YF	05/2018



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

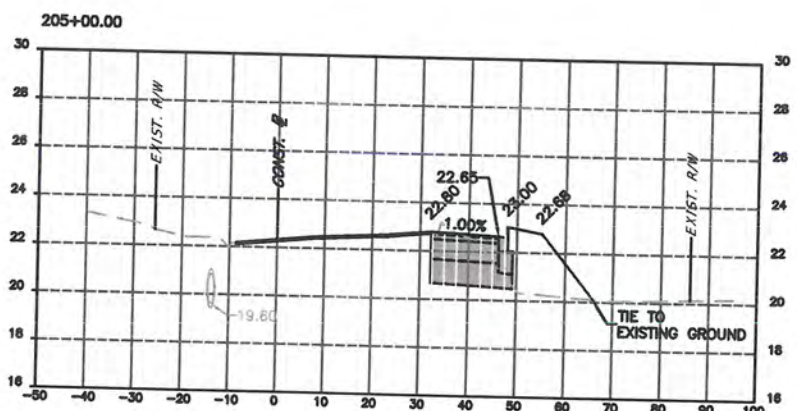
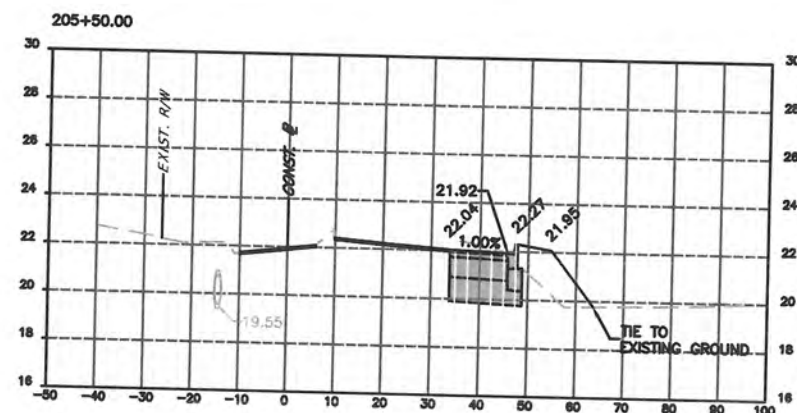
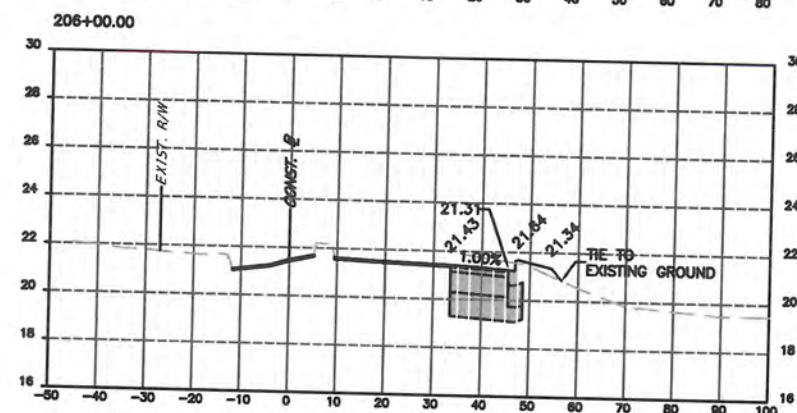
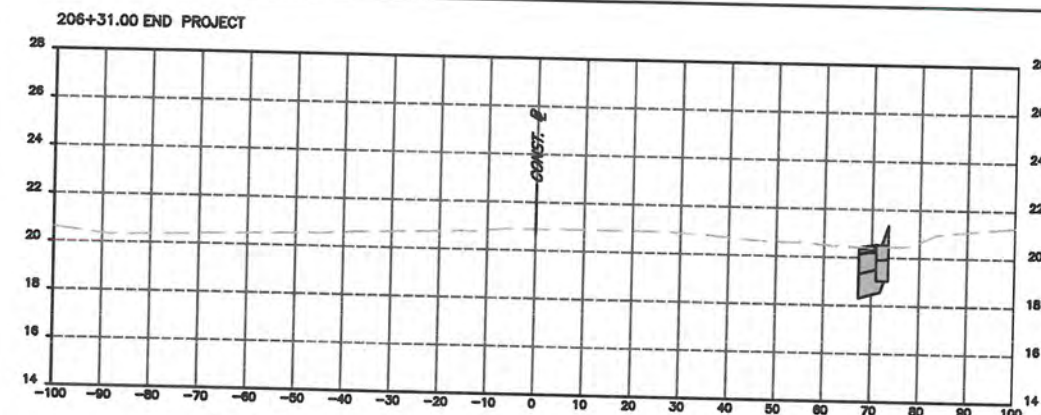
INTERSECTION IMPROVEMENTS OF
CORTEZ ROAD AT 43RD STREET WEST
CROSS SECTION

SHEET NO.
9



Regular Exc.		Embankment	
A ft ²	V ft ³	A ft ²	V ft ³

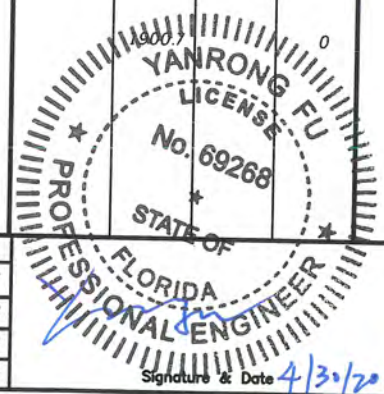
6.0		22.4	
	382.5		982.5
9.3		16.9	
	232.9		325.2
2.8		0	



Regular Exc.		Embankment	
A ft ²	V ft ³	A ft ²	V ft ³

0	82.8	0	43.2
4.6	167.5	2.4	542.5
2.1	70	19.3	1240
0.7	167.5	30.3	1317.5

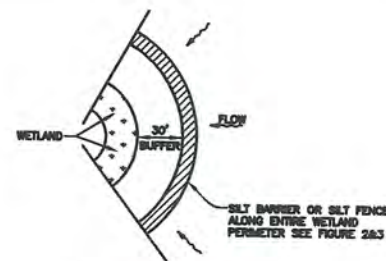
DATE	DESCRIPTION	DATE	PROJECT #	437145-1	SURVEYED	FDC	09/2017
			SURVEY #	0577-0036	DESIGNED	PBF	05/2018
			SEC./TWN./RGE	4/9-355-17E	DRAWN	KHL	05/2018
			SCALE		CHECKED	YF	05/2018



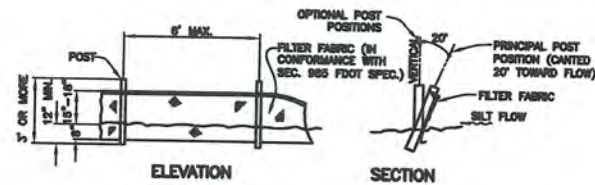
**PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208**

INTERSECTION IMPROVEMENTS OF
CORTEZ ROAD AT 43RD STREET WEST
CROSS SECTION (2)

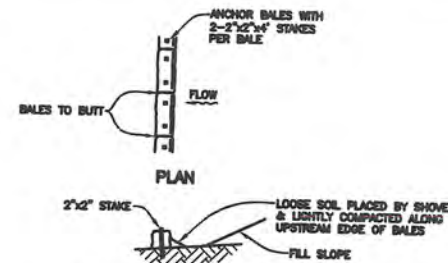
SHEET NO.
10



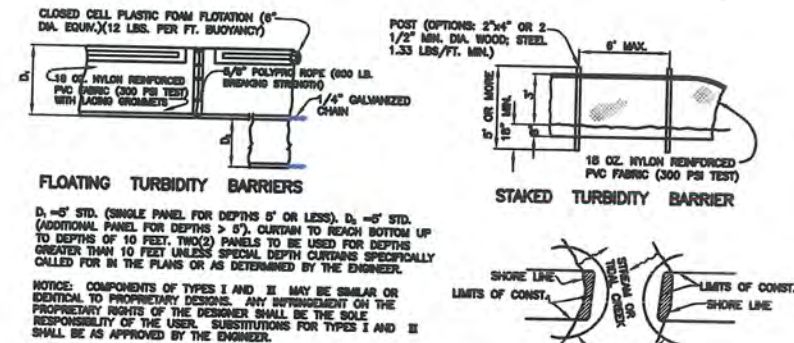
WETLAND BUFFER
FIGURE 1



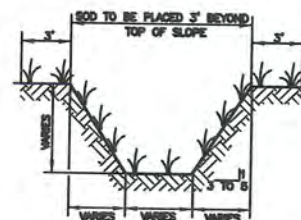
TYPICAL SILT FENCE
FIGURE 2



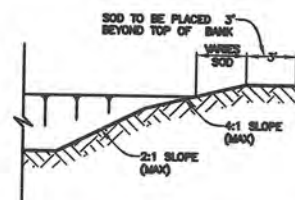
TYPICAL BALE SILT BARRIER
FIGURE 3



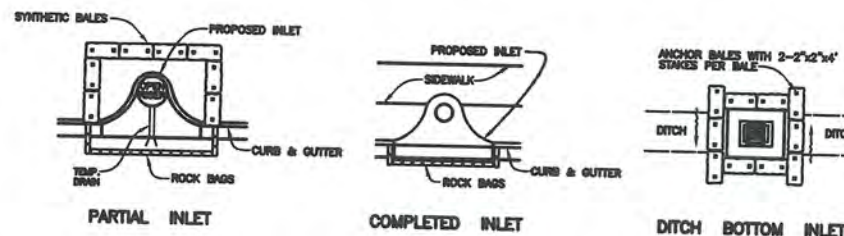
TURBIDITY BARRIERS
FIGURE 4



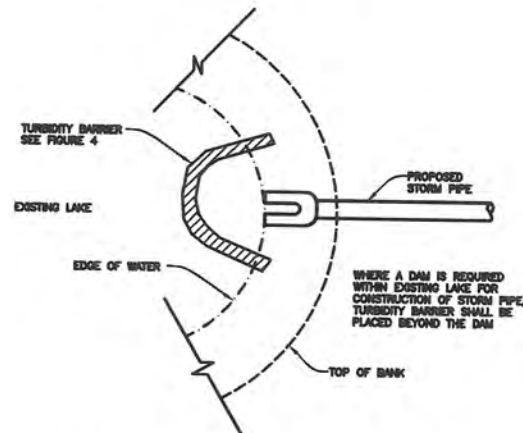
TYPICAL SWALE SECTION
FIGURE 5



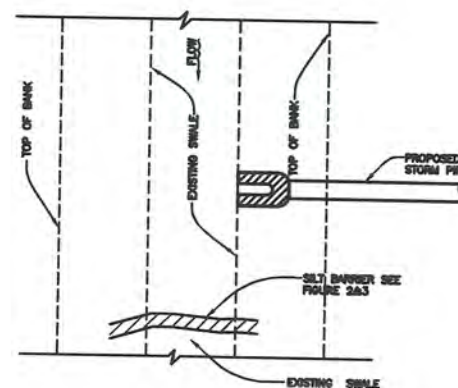
TYPICAL RETENTION/DETENTION POND SECTION
FIGURE 6



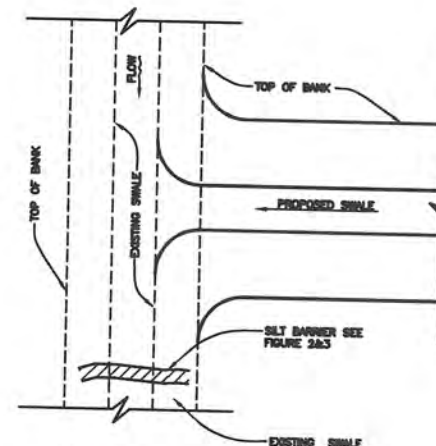
SYNTHETIC BALE PROTECTION AROUND INLETS OR SIMILAR STRUCTURES
FIGURE 7



TURBIDITY BARRIER AT CONNECTION OF STORM PIPE TO EXISTING LAKE
FIGURE 9

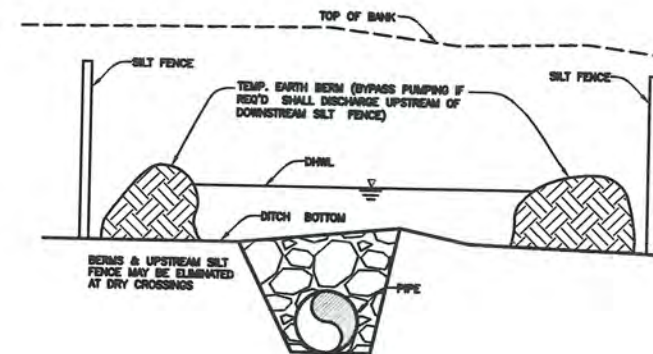


SILT BARRIER AT CONNECTION OF STORM PIPE TO EXISTING SWALE
FIGURE 10

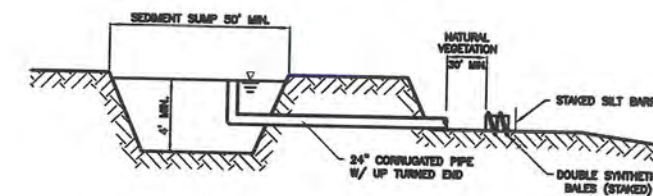


SILT BARRIER AT CONNECTION OF SWALE TO EXISTING SWALE
FIGURE 11

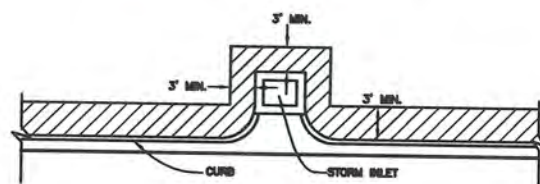
TYPE III SILT FENCE PROTECTION AROUND DITCH BOTTOM INLETS
STAKED SILT BARRIER OR SILT FENCE PROTECTION AROUND DITCH BOTTOM INLETS
FIGURE 8



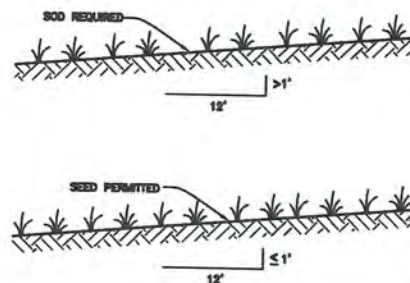
UNDERGROUND PIPE CROSSING
FIGURE 12



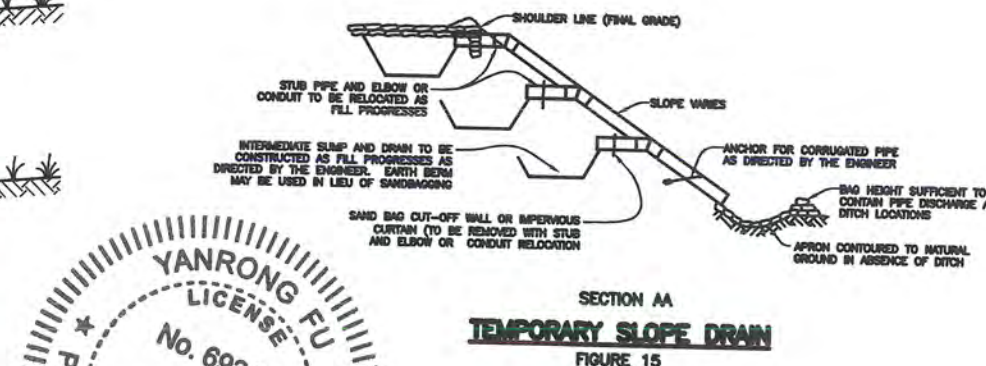
SEDIMENT SUMP SECTION
FIGURE 16



SOD ALONG CURB AND AROUND INLET
FIGURE 14

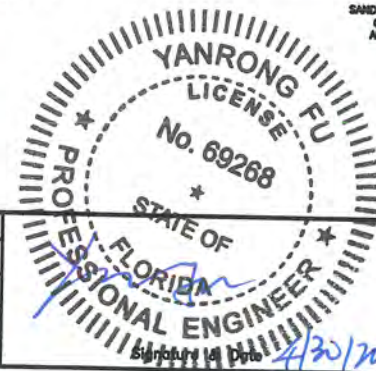


GRASS SLOPES
FIGURE 13



SECTION AA
TEMPORARY SLOPE DRAIN
FIGURE 15

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

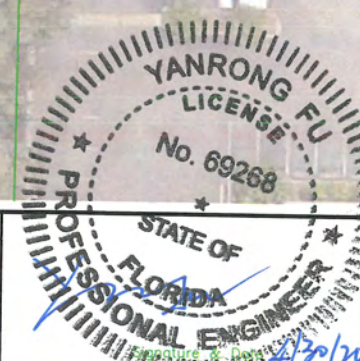
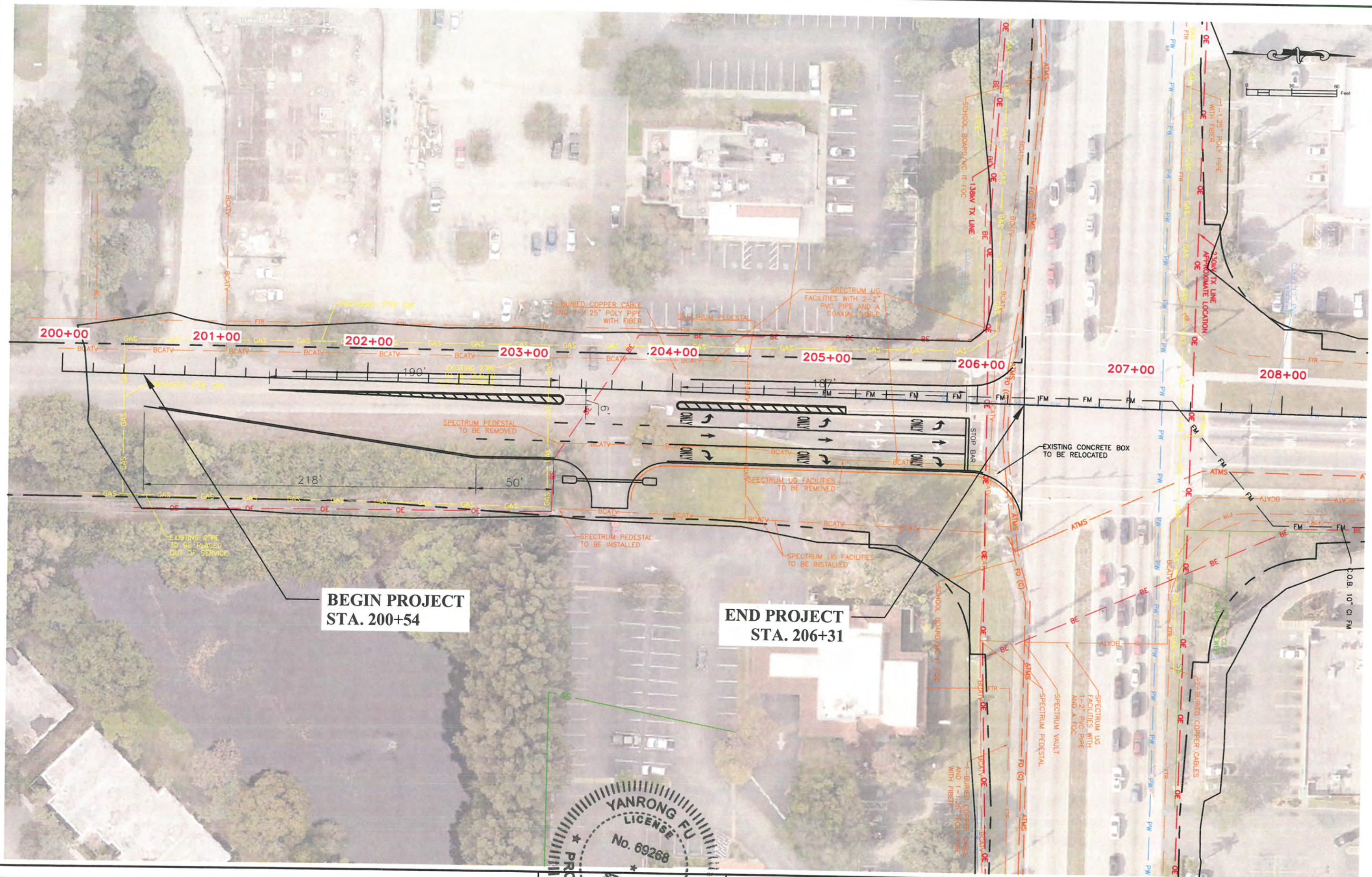


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**INTERSECTION IMPROVEMENTS OF
CORTEZ ROAD AT 43RD STREET WEST
EROSION CONTROL**

SHEET NO.
11

S:\PWD_Engineering_Share\Highway_Engineering\INTERSECTION STUDIES AND IMPROVEMENTS\Cortez Rd @ 43rd St W - 100Percent UAS - FDOT.dwg



DATE	DESCRIPTION	DATE	PROJECT #	437145-1	SURVEYED	FDC	XXX
			SURVEY #	0577-0036	DESIGNED	PBF	05/2018
			SEC./TWN./RGE	4/9-35S-17E	DRAWN	KHL	05/2018
			SCALE	1"=60'	CHECKED	YF	50/2018



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

INTERSECTION IMPROVEMENT
CORTEZ ROAD @ 43RD ST WEST
UAS - 43RD ST. W. SOUTH OF
CORTEZ ROAD

SHEET NO.
12

S:\PVD_Engineering_Share\Highway_Engineering\INTERSECTION STUDIES AND IMPROVEMENTS\Cortez Rd @ 43rd Street West\2017 Design\DWG\100%\Cortez Rd At 43rd St W-100Percent - SM - FDOT.dwg Apr 26 19 8:47 AM

INDEX OF SIGNING & PAVEMENT MARKINGS PLANS

SHEET NO.	DESCRIPTION
1	KEY SHEET
2	NOTES & SUMMARY OF PAY ITEMS
3-4	PLAN SHEETS

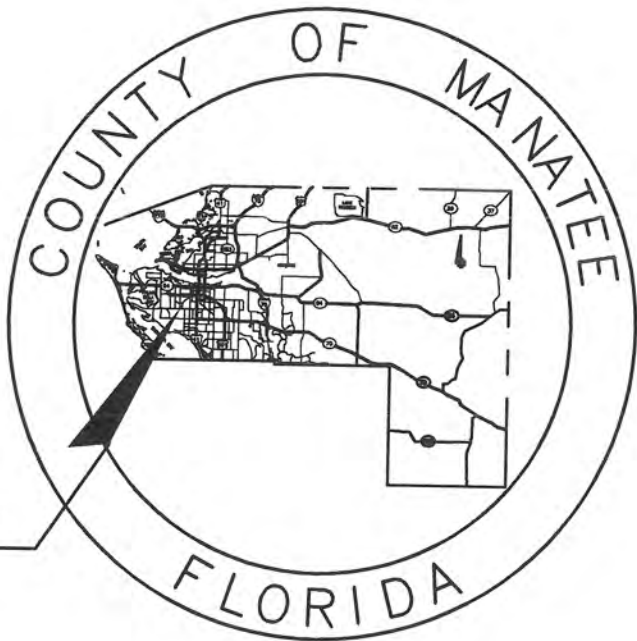
STATE OF FLORIDA
COUNTY OF MANATEE

CONTRACT PLANS

PLANS OF PROPOSED INTERSECTION IMPROVEMENTS
CORTEZ ROAD AT 43RD STREET WEST
BRADENTON, FLORIDA

LOCATION OF PROJECT

MANATEE COUNTY PROJECT No: 307-6076861
FDOT PROJECT No: 437145-1



SIGNING & PAVEMENT MARKINGS PLANS



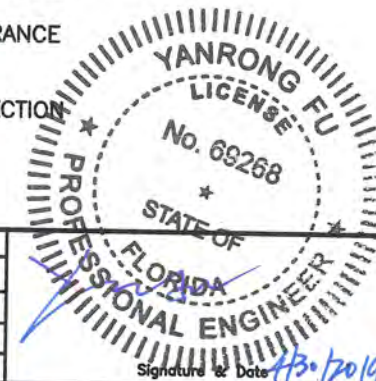
SIGNING & PAVEMENT MARKINGS PLANS
PROFESSIONAL OF RECORD: YANRONG FU, P.E.
FLORIDA P.E. # 69268

CONSTRUCTION CONTRACT NO.	FISCAL YEAR	SHEET NO.
T0000	19	1

GENERAL NOTES

- THESE PLANS HAVE BEEN PREPARED IN ACCORDANCE WITH AND ARE GOVERNED BY THE STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT), STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (DATED 2018), AND FLORIDA DEPARTMENT OF TRANSPORTATION DESIGN STANDARDS (DATED 2017-2018), AND THE FHWA MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) 2009 EDITION.
- PAVEMENT MARKING SHALL BE PLACED AS SHOWN IN THE PLANS AND THE APPROPRIATE FDOT DESIGN STANDARDS INDEX.
- PAVEMENT MARKING DIRECTIONAL ARROWS SHALL BE SPACED AS PER FDOT DESIGN STANDARD INDEX NO. 17346.
- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE LENGTH OF COLUMN SUPPORTS IN THE FIELD PRIOR TO FABRICATION.
- REFER TO FDOT DESIGN STANDARD INDEX NO. 17352 FOR RETRO-REFLECTIVE PAVEMENT MARKER PLACEMENT DETAILS.
- ALL PERMANENT PAVEMENT MARKINGS PLACED WITHIN THE MANATEE COUNTY RIGHT OF WAY SHALL BE THERMOPLASTIC EXCEPT WHEN OTHERWISE NOTED IN PLANS WHERE PAINT IS SPECIFIED.
- ALL THERMOPLASTIC PAVEMENT MARKINGS SHALL BE CERTIFIED LEAD FREE.
- TEMPORARY PAINTED PAVEMENT MARKINGS SHALL BE INSTALLED PRIOR TO OPENING LANES TO TRAFFIC. PAVEMENT MARKINGS SHALL BE PLACED AS SHOWN IN THE PLANS AND THE APPROPRIATE FDOT DESIGN STANDARDS INDEX.
- EXISTING PAVEMENT MARKINGS WHICH CONFLICT WITH THE PROPOSED PAVEMENT MARKINGS SHALL BE REMOVED USING AN EDCO TLR-7 GRINDER OR EQUAL. NO SCAR RESULTING FROM THE MARKING REMOVAL SHALL BE DEEPER THAN $\frac{1}{4}$ " AS MEASURED FROM THE SURROUNDING SURFACE TO THE LOWEST POINT IN THE REMOVED AREA. HYDROBLASTING IS NOT ALLOWED.
- ALL PAVEMENT MARKINGS SHALL MEET THE CRITERIA SPECIFIED IN THE FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, 2018 EDITION.
- ALL SIGNS SHALL BE INSTALLED ACCORDING TO THE LATEST FDOT DESIGN STANDARDS INDEX AND FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, 2018 EDITION.
- SIGN LOCATIONS SHOWN ARE APPROXIMATE AND MAY REQUIRE FIELD ADJUSTMENT AS DIRECTED BY THE ENGINEER.
- ANY EXISTING SIGN TO REMAIN THAT IS DISTURBED DURING CONSTRUCTION SHALL BE RESET TO CURRENT STANDARDS FOR HEIGHT, OFFSET AND METHOD OF INSTALLATION.
- CAUTION SHALL BE EXERCISED WHILE RELOCATING EXISTING SIGNS SO AS TO PREVENT DAMAGE TO THE SIGNS. IF THE SIGNS ARE DAMAGED BEYOND USE, AS DETERMINED BY THE ENGINEER, THEY SHALL BE REPLACED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE.
- CONTRACTOR SHALL USE W-SHAPED STEEL POSTS FOR MULTI-POST SIGNS. ALL COLUMNS (POSTS) FOR SINGLE COLUMN GROUND SIGNS SHALL BE ALUMINUM ROUND TUBE.
- ALL SINGLE POST AND MULTI-POST SIGNS WITHIN THE LIMITS OF THE PROJECT CONSTRUCTION SHALL BE REMOVED UNLESS OTHERWISE SHOWN IN THE PLANS. REMOVAL INCLUDES REMOVING FOUNDATIONS AND BACKFILLING THE HOLES LEFT AFTER REMOVAL.
- ANY SIGN MOUNTED OVER A SIDEWALK SHALL HAVE A STANDARD VERTICAL CLEARANCE OF 8 FEET.
- STREET NAME SIGNS THAT ARE NOT SHOWN IN THE GUIDE SIGN WORK SHEET SECTION OF THE PLANS SHALL BE AS PER MANATEE COUNTY DESIGN REQUIREMENTS.
- SIGNS THAT ARE EMBEDDED IN ASPHALT/CONCRETE SHALL BE INSTALLED IN PIPE SLEEVES.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DISPOSAL OF ALL SIGNS THAT ARE TO BE PERMANENTLY REMOVED IN THIS PROJECT.
- THE CONTRACTOR SHALL APPLY THERMOPLASTIC AS THE FINAL TRAFFIC STRIPES AND MARKINGS A MINIMUM OF 14 DAYS AFTER THE FIRST APPLICATION OF PAINT, BUT PRIOR TO FINAL ACCEPTANCE OF THE PROJECT.

LINE NO.	PAY ITEM NO.	DESCRIPTION	UNIT	QUANTITY
1	0700-1-50	SINGLE SIGN POST (RELOCATE)	AS	2
2	0700-1-11	SINGLE SIGN POST (FURNISH & INSTALL)	AS	1
2	0711-15-101	THERMO SOLID STRIPE (WHITE) (6")	GM	0.20
3	0711-11-123	THERMO SOLID STRIPE (WHITE) (12")	LF	162
4	0711-11-125	THERMO SOLID STRIPE (WHITE) (24")	LF	60
5	0711-11-131	THERMO STRIPE SKIP (WHITE) (6")	GM	0.08
6	0711-11-170	DIRECTIONAL PAVMT ARROWS (THERMO)	EA	9
7	0711-11-160	PVMT MESSAGES, THERMO (ONLY)	EA	3
8	0711-15-201	THERMO SOLID STRIPE (YELLOW) (6")	GM	0.24
9	07-11-11-224	THERMO SOLID STRIPE (YELLOW) (18")	LF	40



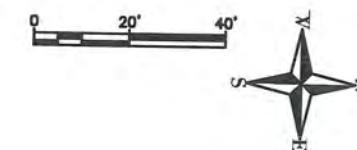
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			SURVEY #	0577-0036	DESIGNED	PBF	05/2018
			SEC./TWN./RGE	4/9-355-17E	DRAWN	KHL	05/2018
			SCALE	NTS	CHECKED	YF	05/2018



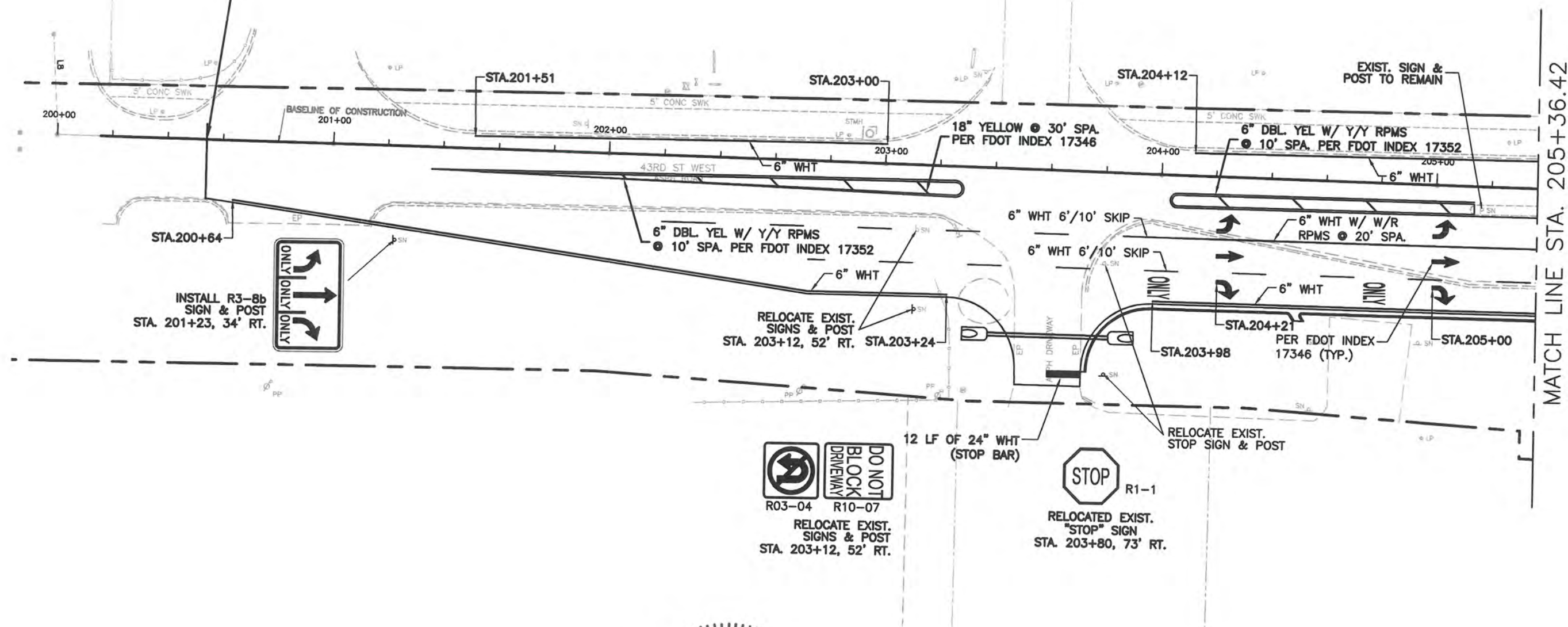
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1022 26th Avenue East, Bradenton, FL 34208

INTERSECTION IMPROVEMENTS OF
CORTEZ ROAD AT 43RD STREET WEST
NOTES & SUMMARY OF QUANTITIES

SHEET NO.
2



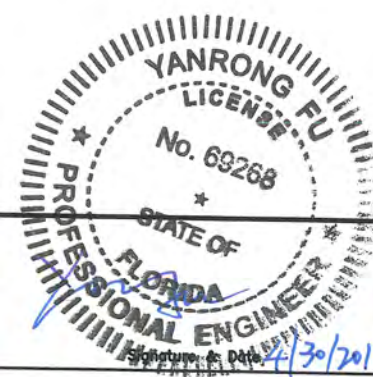
BEGIN SIGNING AND PAVEMENT
MARKING STA. 200+54
(MATCH EXISTING PAVEMENT MARKINGS)



RELOCATE EXIST.
SIGNS & POST
STA. 203+12, 52' RT.



RELOCATED EXIST.
"STOP" SIGN
STA. 203+80, 73' RT.



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INTERSECTION IMPROVEMENTS OF
CORTEZ ROAD AT 43RD STREET WEST
SIGNING & MARKING SHEET 1

SHEET NO.
3

S:\PWD_Engineering_Share\Highway_Engineering\INTERSECTION STUDIES AND IMPROVEMENTS\Cortez Rd @ 43rd St W-100Percent - SM -
P001.dwg

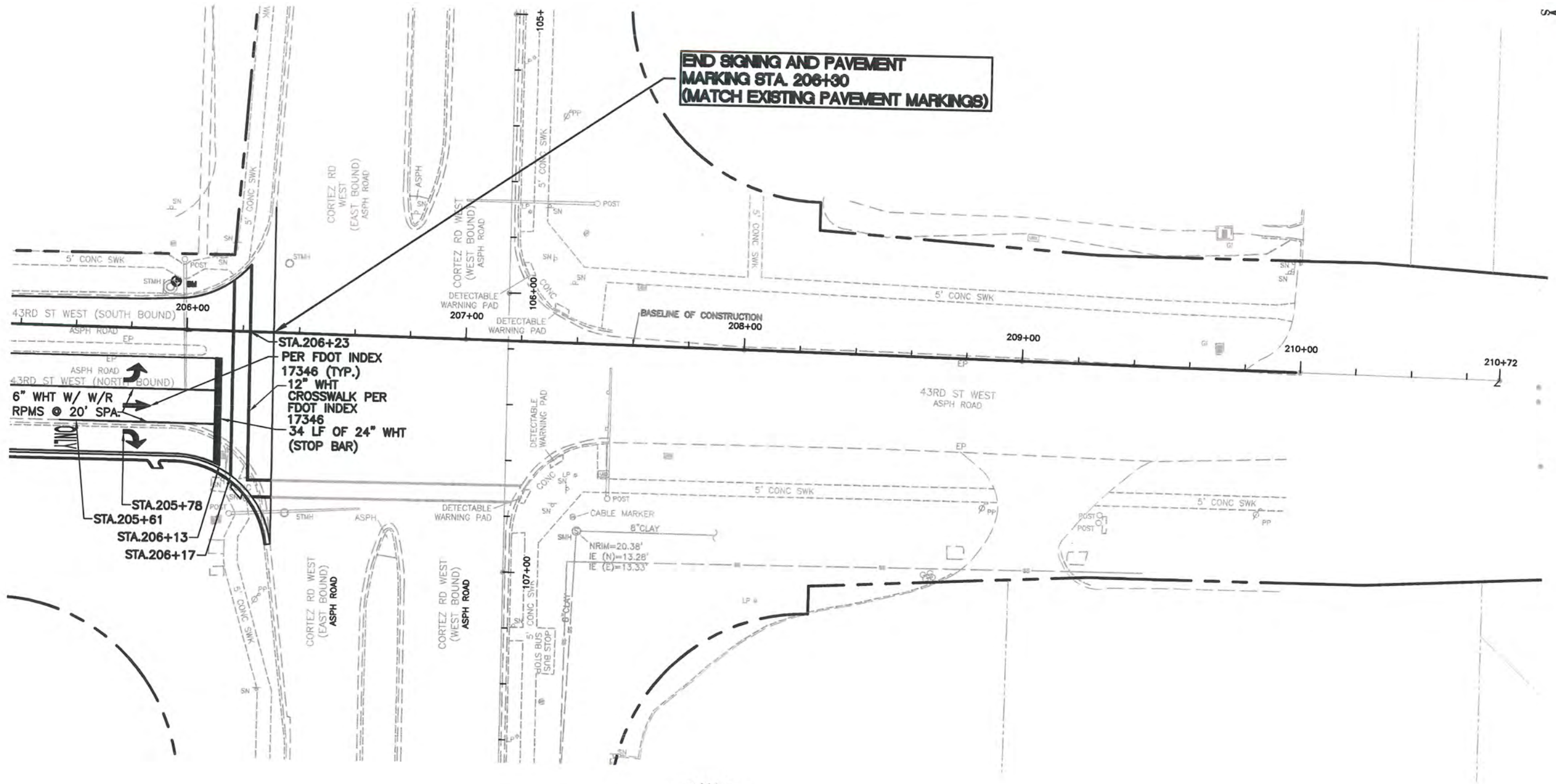
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			SURVEY #	0577-0036	DESIGNED	PBF	05/2018
			SEC./TWN./RGE	4/9-35S-17E	DRAWN	KHL	05/2018
			SCALE	1"=40'	CHECKED	YF	05/2018

S:\P\DWG\Engineering\Share\Highway Engineering\INTERSECTION STUDIES AND IMPROVEMENTS\Cortez Rd @ 43rd Street West\2017 Design\DWG\100% Cortez Rd @ 43rd St W-100Percent - SM -

0 20' 40'



END SIGNING AND PAVEMENT
MARKING STA. 206+30
(MATCH EXISTING PAVEMENT MARKINGS)



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1022 26th Avenue East, Bradenton, FL 34208

INTERSECTION IMPROVEMENTS OF
CORTEZ ROAD AT 43RD STREET WEST
SIGNING & MARKING SHEET 2

SHEET NO.
4

DATE	DESCRIPTION	DATE	PROJECT #	437145-1	SURVEYED	FDC	09/2017
			SURVEY #	0577-0036	DESIGNED	PBF	05/2018
			SEC./TWN./RGE	4/9-35S-17E	DRAWN	KHL	05/2018
			SCALE	1"=40'	CHECKED	YF	05/2018