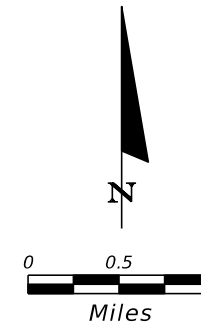
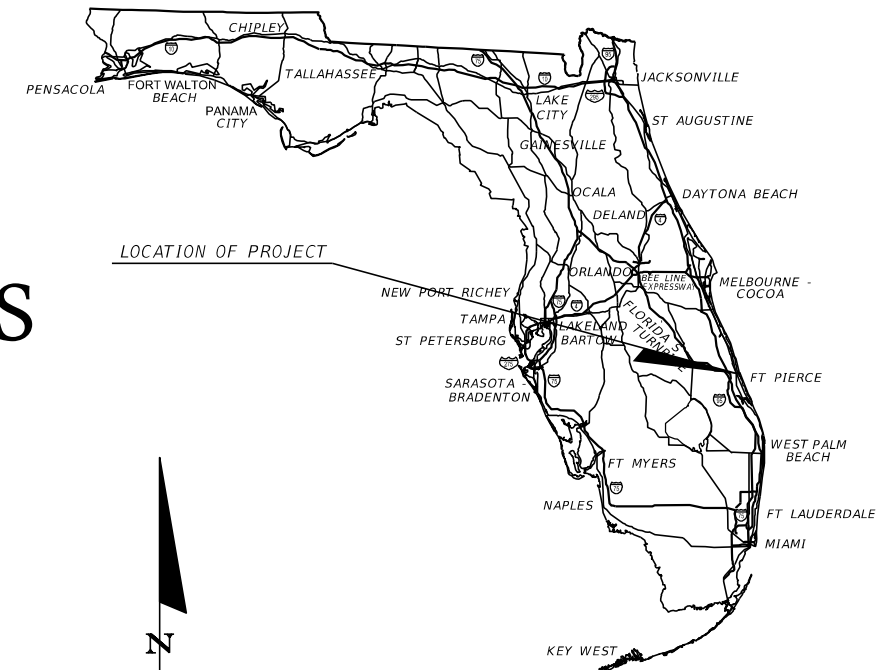
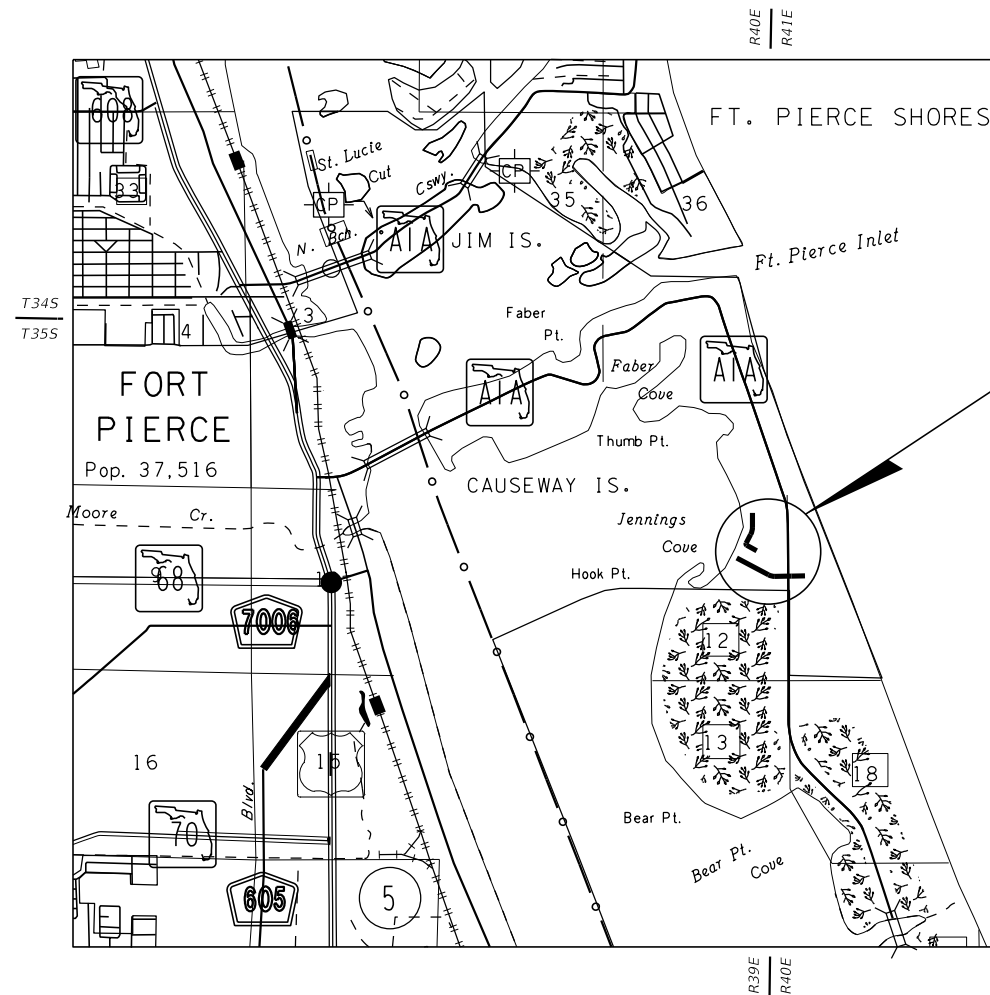


CONTRACT PLANS

RIO VISTA DRIVE DRAINAGE IMPROVEMENTS

INDEX OF ROADWAY PLANS

SHEET NO.	SHEET DESCRIPTION
1	KEY SHEET
2	GENERAL NOTES
3	SUMMARY OF PAY ITEMS
4	PLAN SHEET
5	DRAINAGE DETAILS



ROADWAY SHOP DRAWINGS
TO BE SUBMITTED TO:
KIMLEY-HORN AND ASSOCIATES, INC.
BRIAN GOOD, P.E.
445 24th STREET, SUITE 200
VERO BEACH, FLORIDA 32960

PLANS PREPARED BY:
Kimley»Horn
445 24th STREET, SUITE 200
VERO BEACH, FL 32960
TEL (772) 794-4100
PROJECT NUMBER: 047922017
CERTIFICATE OF AUTHORIZATION: 00000696

ROADWAY PLANS
ENGINEER OF RECORD: BRIAN GOOD, P.E.

P.E. NO.: 56939

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

PREPARED FOR:
CITY OF FORT PIERCE

**FINAL PLANS
SEPTEMBER 2020**

SHEET
NO.

1

GENERAL NOTES

1. ALL CONSTRUCTION AND MATERIALS SHALL CONFORM TO APPLICABLE STANDARDS AND SPECIFICATIONS OF THE CITY OF FORT PIERCE, FLORIDA STANDARD CONTRACT DOCUMENTS AND SPECIFICATIONS FOR PUBLIC WORK PROJECTS, LATEST ISSUE.

2. CONSTRUCTION DETAILS SHALL BE IN ACCORDANCE WITH STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION ROADWAY AND TRAFFIC DESIGN STANDARDS, LATEST ISSUE.

3. THE INFORMATION PROVIDED IN THESE DRAWINGS IS SOLELY TO ASSIST THE CONTRACTOR IN ASSESSING THE NATURE AND EXTENT OF CONDITIONS WHICH WILL BE ENCOUNTERED DURING THE COURSE OF WORK. THE CONTRACTORS ARE DIRECTED, PRIOR TO BIDDING, TO CONDUCT WHATEVER INVESTIGATIONS THEY DEEM NECESSARY TO ARRIVE AT THEIR OWN CONCLUSION REGARDING THE ACTUAL CONDITIONS THAT WILL BE ENCOUNTERED, AND UPON WHICH BIDS WILL BE BASED.

4. LOCATIONS, ELEVATIONS AND DIMENSIONS OF EXISTING UTILITIES AND OTHER FEATURES ARE SHOWN ACCORDING TO THE BEST INFORMATION AVAILABLE AT THE TIME OF THE PREPARATION OF THESE PLANS. THE CONTRACTOR SHALL VERIFY THE LOCATIONS, ELEVATIONS, AND OTHER FEATURES AFFECTING HIS/HER WORK PRIOR TO CONSTRUCTION, AND NOTIFY THE CITY OF FORT PIERCE, ENGINEERING DEPARTMENT IMMEDIATELY WHEN CONFLICT BETWEEN DRAWINGS AND ACTUAL CONDITIONS ARE DISCOVERED. THE CONTRACTOR SHALL WORK AS NEEDED TO AVOID CONFLICT WITH EXISTING UTILITIES (NO ADDITIONAL COST SHALL BE PAID FOR THIS WORK). EXISTING UTILITIES SHALL BE MAINTAINED IN SERVICE DURING CONSTRUCTION UNLESS OTHERWISE APPROVED BY THE UTILITY OWNER.

PRE-TRENCHING IN THE ALIGNMENT AND GRADE OF PROPOSED PIPES, STRUCTURES, CONDUITS AND/OR SUB-GRADE SHALL BE PERFORMED FOURTEEN DAYS IN ADVANCE OF ITS CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE UNDERGROUND UTILITY OWNERS AND THE CITY WITH A FOURTEEN DAY ADVANCE NOTICE OF ANY CONFLICT WITH PROPOSED CONSTRUCTION. PAYMENT FOR PRE-TRENCHING, SURVEY, AND BACKFILLING SHALL BE INCLUDED IN THE UNIT COST OF THE RELATED BID ITEM FOR WORK BEING DONE.

5. THE CONTRACTOR SHALL COORDINATE WITH UTILITIES TO ARRANGE RELOCATION AND TEMPORARY SUPPORT OF UTILITY FEATURES, ETC. AS NECESSARY TO COMPLETE THE WORK.

6. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO LOCATE AND PROTECT ANY AND ALL EXISTING UTILITIES ON THIS PROJECT. THE CONTRACTOR WILL RECEIVE NO DIRECT PAYMENT TO SUPPORT AND/OR PROTECT ANY AND ALL UTILITIES. PAYMENT FOR THIS WORK SHALL BE INCLUDED IN THE UNIT COST OF THE RELATED BID ITEM FOR WORK BEING DONE.

7. THE CONTRACTOR SHALL GIVE AT LEAST 48 HOURS NOTICE TO UTILITY COMPANIES TO PROVIDE FOR THE LOCATION OF EXISTING UNDERGROUND UTILITIES IN ADVANCE OF CONSTRUCTION. CONTACT UTILITIES NOTIFICATION CENTER AT 1-800-432-4770.

8. THE CONTRACTOR IS REQUIRED TO OBTAIN ALL APPLICABLE CONSTRUCTION PERMITS PRIOR TO START OF CONSTRUCTION.

9. THE CONTRACTOR SHALL NOTIFY THE CITY OF FORT PIERCE, ENGINEERING DEPARTMENT AND CITY'S FIELD REPRESENTATIVE, AT LEAST 48 HOURS PRIOR TO CONSTRUCTION.

10. THE CONTRACTOR SHALL CONTACT THE CITY OF FORT PIERCE, ENGINEERING DEPARTMENT AND CITY'S FIELD REPRESENTATIVE IMMEDIATELY OF ANY CONFLICT ARISING DURING CONSTRUCTION OF ANY IMPROVEMENTS SHOWN ON THESE DRAWINGS.

11. B.M. DATA IS NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88).

ANY NAVD 88 MONUMENT WITHIN THE LIMITS OF CONSTRUCTION IS TO BE PROTECTED. IF IN DANGER OF BEING DAMAGE, NOTIFY:
 GEODETIC INFORMATION CENTER
 ATTN: MARK MAINTENANCE SECTION N/CG-162
 6001 EXECUTIVE BLVD.
 ROCKVILLE MARYLAND 20852

12. EXISTING SECTION CORNERS AND 1/4 SECTION CORNERS, AND OTHER LAND MARKERS OR MONUMENTS LOCATED WITHIN PROPOSED CONSTRUCTION ARE TO BE REFERENCED BY THE CONTRACTOR PRIOR TO CONSTRUCTION AND RESET AFTER CONSTRUCTION USING REGISTERED LAND SURVEYOR LICENSED IN THE STATE OF FLORIDA.

13. STORM SEWER PIPE LENGTHS SHOWN ARE APPROXIMATE, AND MAY BE ADJUSTED AS REQUIRED UPON APPROVAL BY THE CITY OF FORT PIERCE, ENGINEERING DEPARTMENT.

14. INSTALLATION OF ALL STORM SEWERS, INLETS, MANHOLES AND APPURTENANCES SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE CITY OF FORT PIERCE, ENGINEERING DEPARTMENT AS INDICATED ON THE DRAWINGS. ALL REINFORCED CONCRETE PIPE SHALL BE CLASS III PIPE.

15. ALL CATCH BASINS AND PIPE INVERTS SHALL BE AS INDICATED ON THE DRAWINGS.

16. CONTRACTOR SHALL ADJUST ALL UTILITY LIDS AND COVERS TO FINISHED GRADE AS REQUIRED.

17. ALL COMPLETED DRAINAGE STRUCTURES SHALL BE PROTECTED FROM CONTAMINATION BY SILT AND CONSTRUCTION DEBRIS. THE CONTRACTOR SHALL PLACE PLYWOOD ON, OR FILTER FABRIC BETWEEN FRAME AND INLET GRATE UNTIL CONSTRUCTION OPERATIONS ARE COMPLETED. ALL DRAINAGE STRUCTURES (EXISTING AND PROPOSED) WITHIN PROJECT LIMITS SHALL BE CLEANED PRIOR TO FINAL ACCEPTANCE. PAYMENT FOR THIS WORK SHALL BE INCLUDED IN THE UNIT COST OF THE RELATED BID ITEM FOR WORK BEING DONE.

18. ALL ROAD CROSSINGS ARE OPEN CUT UNLESS OTHERWISE NOTED ON THE DRAWINGS.

19. THE CONTRACTOR SHALL REPLACE ALL PAVING, STABILIZING EARTH, DRIVEWAYS, SIDEWALKS, ETC. WITH THE SAME TYPE OF MATERIAL THAT WAS REMOVED DURING CONSTRUCTION OR AS DIRECTED BY THE CITY OF FORT PIERCE FIELD ENGINEER.

20. THE CONTRACTOR SHALL NOT ENCROACH INTO PRIVATE PROPERTY WITH PERSONNEL, MATERIAL OR EQUIPMENT WITHOUT WRITTEN PERMISSION FROM THE PROPERTY OWNER.

21. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGE, REMOVAL OR MODIFICATION, ACCIDENTALLY OR PURPOSELY, CAUSED TO ANY IRRIGATION SYSTEMS, PRIVATE OR PUBLIC. THE CONTRACTOR SHALL REPLACE ANY DAMAGED, REMOVED, OR MODIFIED IRRIGATION PIPES, SPRINKLER HEADS OR OTHER PERTINENT APPURTENANCES AT NO ADDITIONAL COST.

22. REGARDING MAIL BOXES, WALLS, FENCES, SECURITY GATE TRACKING, OR OTHER PRIVATE PROPERTY OR IMPROVEMENTS THAT SHALL BE TEMPORARILY RELOCATED AND REPLACED, THE CONTRACTOR SHALL COORDINATE WITH THE APPROPRIATE OWNER. ANY AND ALL COSTS ASSOCIATED WITH COORDINATING, REMOVING, AND REPLACING ANY PROPERTY ITEMS SHALL BE INCLUDED IN THE UNIT COST OF THE RELATED BID ITEM FOR WORK BEING DONE.

23. CONTRACTOR SHALL PROVIDE MAINTENANCE OF TRAFFIC IN ACCORDANCE WITH FDOT INDEX 600 SERIES, MUTCD AND THESE PLANS. THE CONTRACTOR SHALL MAINTAIN AT ALL TIMES VEHICULAR AND PEDESTRIAN ACCESS TO ALL RESIDENCES AND/OR BUSINESS.

24. NO TREES ARE TO BE REMOVED OR RELOCATED WITHOUT PRIOR APPROVAL FROM THE CITY OF FORT PIERCE FIELD ENGINEER (CITY PERMIT REQUIRED FOR ANY TREE REMOVAL).

25. COMPLETE 'AS-BUILT' INFORMATION RELATIVE TO LOCATION, SIZE AND DEPTH OF NEW PIPES, MANHOLES, INLETS, ETC., SHALL BE ACCURATELY RECORDED BY THE CONTRACTOR AND SUBMITTED (SIGNED AND SEALED BY A FLORIDA CERTIFIED P.L.S.) TO THE CITY OF FORT PIERCE, ENGINEERING DEPARTMENT PRIOR TO FINAL ACCEPTANCE OF THE WORK. ALL RECORD INFORMATION ON EXISTING UTILITY CROSSINGS ENCOUNTERED DURING CONSTRUCTION, INCLUDING BUT NOT LIMITED TO PIPES, INLETS, MANHOLE, ETC., SHALL BE RECORDED BY A FLORIDA REGISTERED SURVEYOR AND SHOWN ON THE RECORD DRAWINGS. THE COST OF SIGNED AND SEALED AS-BUILTS SHALL BE INCLUDED IN OVERALL BID AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

26. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE INTEGRITY OF AND MAKING THE REPAIRS OF EXISTING PAVEMENT, SIDEWALKS, PIPES, CONDUITS, CURBS, CABLES, ETC., WHETHER OR NOT SHOWN ON THE PLANS DAMAGED AS A RESULT OF THE CONTRACTORS OPERATIONS AND/OR THOSE OF HIS SUBCONTRACTORS, AND SHALL RESTORE THEM PROMPTLY AT NO ADDITIONAL EXPENSE TO THE OWNER OR THE CITY OF FORT PIERCE. CONTRACTOR SHALL REPORT ANY DAMAGE TO SIDEWALK, DRIVEWAY, ETC., PRIOR TO BEGINNING WORK IN ANY AREA.

27. ALL DRAINAGE PIPES SHALL BE APPROVED BY CITY OF FORT PIERCE ENGINEERING DEPARTMENT. THE CONTRACTOR SHALL CONSTRUCT A FILTER FABRIC JACKET AT ALL PROPOSED STORM SEWER JOINTS AS PER FDOT INDEX 280. COST OF FILTER FABRIC JACKET SHALL BE INCLUDED IN UNIT PIPE COSTS.

28. EXISTING DRAINAGE STRUCTURES AND CULVERTS ARE TO REMAIN UNLESS OTHERWISE NOTED.

29. NO EXISTING BASE MATERIAL REMOVED IN EXCAVATION SHALL BE REUSED AS PROPOSED BASE MATERIAL.

30. STAGING AND MATERIAL STORAGE SHALL NOT BE CONDUCTED ON ABUTTING PRIVATE PROPERTY WITHOUT WRITTEN APPROVAL FROM THE OWNER. STAGING AND STORAGE SHALL BE CONDUCTED WITHIN PUBLIC R/W AND/OR CONSTRUCTION EASEMENTS (ACCESS LICENSE AGREEMENTS).

31. EXISTING UTILITY CONTACT INFORMATION:

UTILITY COMPANY	CONTACT	PHONE NUMBER	ADDRESS
AT&T	MARK GUTIERREZ	772-460-4443	2021 S MILITARY TRAIL, WEST PALM BEACH, FL 33415
COMCAST CABLE	ANTHONY SPRINGSTEEL	954-534-7484	2501 SW 145 AVE. MIRAMAR, FL 33027
FLORIDA GAS TRANSMISSION - FORT PIERCE	JOSEPH SANCHEZ	407-838-7171	2405 LUCIEN WAY, STE 200 MAITLAND, FL 32751
FLORIDA POWER AND LIGHT	ROB MORRIS	772-223-4215	4406 SW CARGO WAY, PALM CITY, FL 34990
FORT PIERCE UTILITY AUTHORITY	BO HUTCHINSON	772-466-1600	1701 S 37TH ST FORT PIERCE, FL 34947

32. EROSION CONTROL MEASURES SHALL BE TAKEN BY CONTRACTOR DURING CONSTRUCTION AS PER FDOT STANDARDS:

- A. SILT FENCE SHALL BE INSTALLED ALONG THE ENTIRE PERIMETER OF THE PROJECT ADJACENT TO ANY SOIL DISTURBING ACTIVITIES.
- B. ALL DRAINAGE STRUCTURES ARE TO BE PROTECTED DURING CONSTRUCTION PER FDOT STANDARDS.
- C. ALL FENCING, GRADING, SIGNING AND SODDING SHALL BE MAINTAINED DURING THE CONTRACT LIFE. ALL DAMAGED WORK SHALL BE RESTORED AT NO COST TO THE CITY.

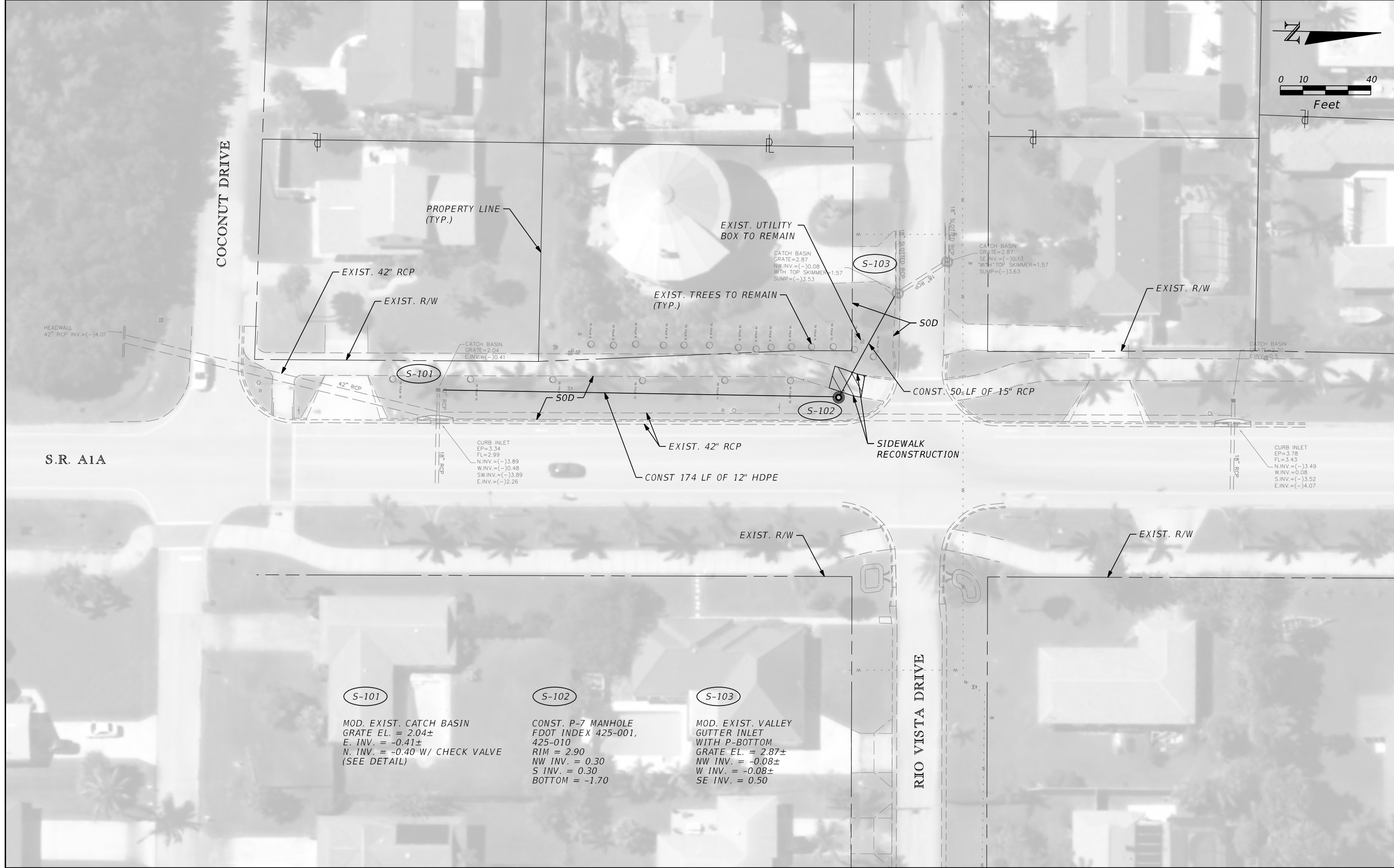
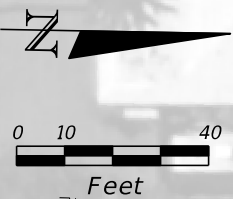
33. ALL EXISTING MAILBOXES WITHIN LIMITS OF CONSTRUCTION SHALL BE RELOCATED IN ACCORDANCE WITH CITY AND POSTAL CODES.

34. NON-STRUCTURAL CONCRETE UTILIZED IN CURB AND GUTTER, SIDEWALK AND URBAN FLARED TURNOUT CONSTRUCTION SHALL CONSIST OF 3000 PSI FIBER REINFORCED MIX.

REVISIONS							CITY OF FORT PIERCE	<h2 style="margin: 0;">GENERAL NOTES</h2>	SHEET NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		RIO VISTA DRIVE DRAINAGE IMPROVEMENTS		2
						BRIAN A. GOOD, P.E. P.E. LICENSE NUMBER 56939 445 24th STREET, SUITE 200 VERO BEACH, FL 32960 (772) 794-4100 CERTIFICATE OF AUTHORIZATION: 00000696			

ROADWAY PAY ITEMS			
101-1A	MOBILIZATION/DEMobilIZATION	LS	1
102-1A	MAINTENANCE OF TRAFFIC	LS	1
104-2A	PREVENTION, CONTROL & ABATEMENT OF EROSION AND WATER POLLUTION	LS	1
425-2-41	MANHOLES, P-7, (< 10')	EA	1
110-1-1A	SELECT CLEARING & GRUBBING	LS	1
425-11	MODIFY EXISTING DRAINAGE STRUCTURE	EA	2
430-175-112	PIPE CULVERT, HDPE, 12", ROUND (ADS N-12 WTIB PIPE)	LF	173
430-175-115	PIPE CULVERT, RCP, 15", ROUND	LF	50
430-880-01	FLAP GATE, WAPRO, 12"	EA	1
522-1	CONCRETE SIDEWALK AND DRIVEWAYS, 4"	SY	16
570-1-2	PERFORMANCE TURF, SOD, BAHIA	SY	550

REVISIONS						 <small>BRIAN A. GOOD, P.E. P.E. LICENSE NUMBER 56939 445 24th STREET, SUITE 200 VERO BEACH, FL 32960 (772) 794-4100 CERTIFICATE OF AUTHORIZATION: 00000696</small>	CITY OF FORT PIERCE RIO VISTA DRIVE DRAINAGE IMPROVEMENTS	SUMMARY OF PAY ITEMS	SHEET NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION				3



S.R. A1A

COCONUT DRIVE

RIO VISTA DRIVE

S-101

MOD. EXIST. CATCH BASIN
 GRATE EL. = 2.04±
 E. INV. = -0.41±
 N. INV. = -0.40 W/ CHECK VALVE
 (SEE DETAIL)

S-102

CONST. P-7 MANHOLE
 FDOT INDEX 425-001,
 425-010
 RIM = 2.90
 NW INV. = 0.30
 S INV. = 0.30
 BOTTOM = -1.70

S-103

MOD. EXIST. VALLEY
 GUTTER INLET
 WITH P-BOTTOM
 GRATE EL. = 2.87±
 NW INV. = -0.08±
 W INV. = -0.08±
 SE INV. = 0.50

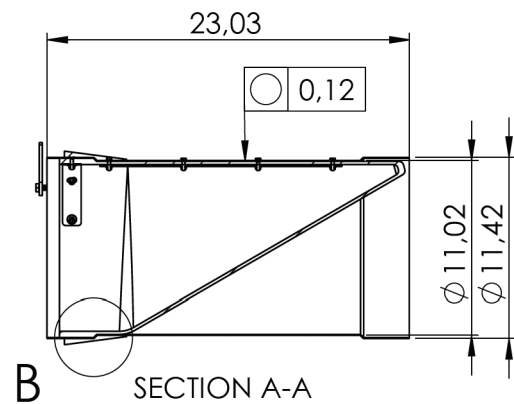
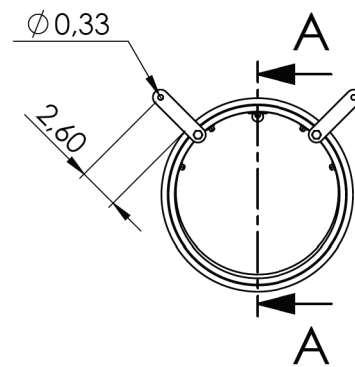
REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

Kimley»Horn
 BRIAN A. GOOD, P.E.
 P.E. LICENSE NUMBER 56939
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 VERO BEACH, FL 32960
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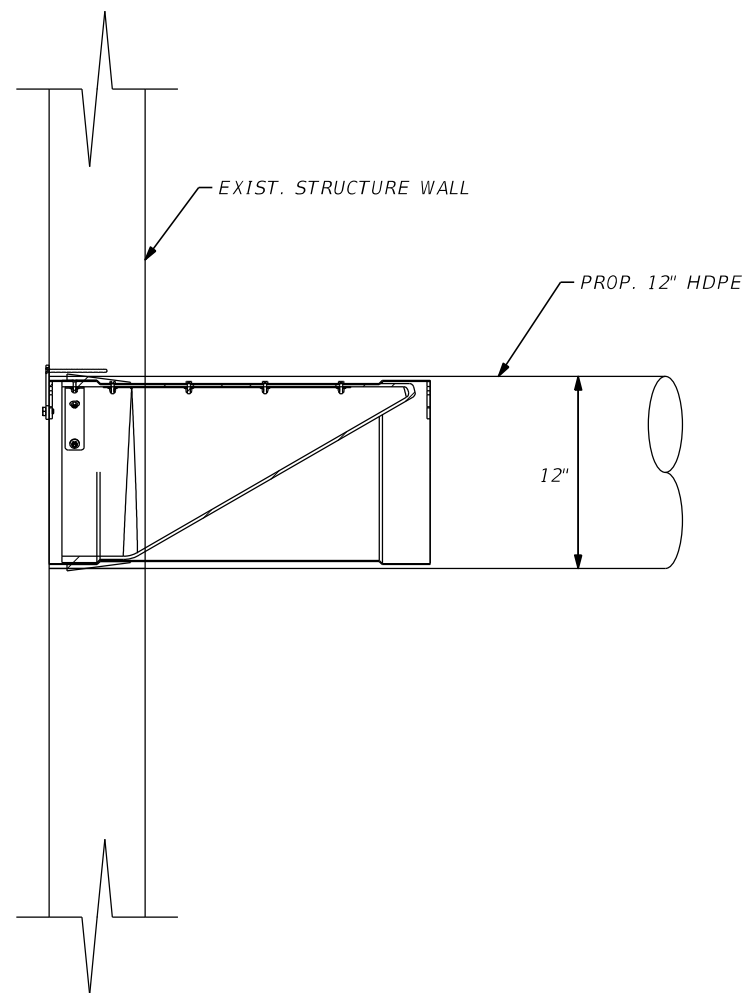
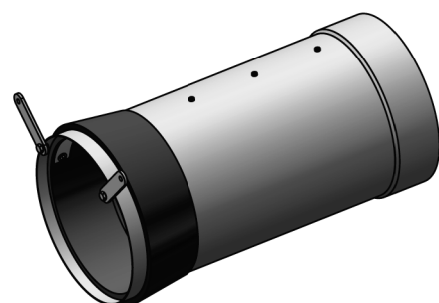
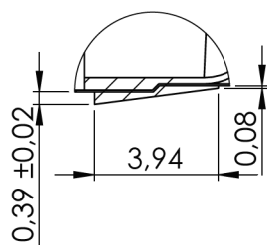
CITY OF FORT PIERCE
 RIO VISTA DRIVE
 DRAINAGE IMPROVEMENTS

PLAN SHEET

SHEET NO.
 4



DETAIL B



INSTALLATION DETAIL

N.T.S.

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Designed By RB	Approved By RB	Created Date 2017-09-18	Units [inch]	General Tolerance SS-ISO 2768-1 m	Project Number	
Material AISI 304 / AISI 316		Comments				
Weight [Lbs] 20.3	Box Volume [ft³] 1.8	Description WaStop NPS 12"				
 www.wapro.com		Article Number WS290-S	Rev	Sheet 1 (1)		

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

Kimley»Horn

BRIAN A. GOOD, P.E.
 P.E. LICENSE NUMBER 56939
 445 24th STREET, SUITE 200
 VERO BEACH, FL 32960
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CITY OF FORT PIERCE

RIO VISTA DRIVE
 DRAINAGE IMPROVEMENTS

DRAINAGE DETAILS

SHEET NO.
5