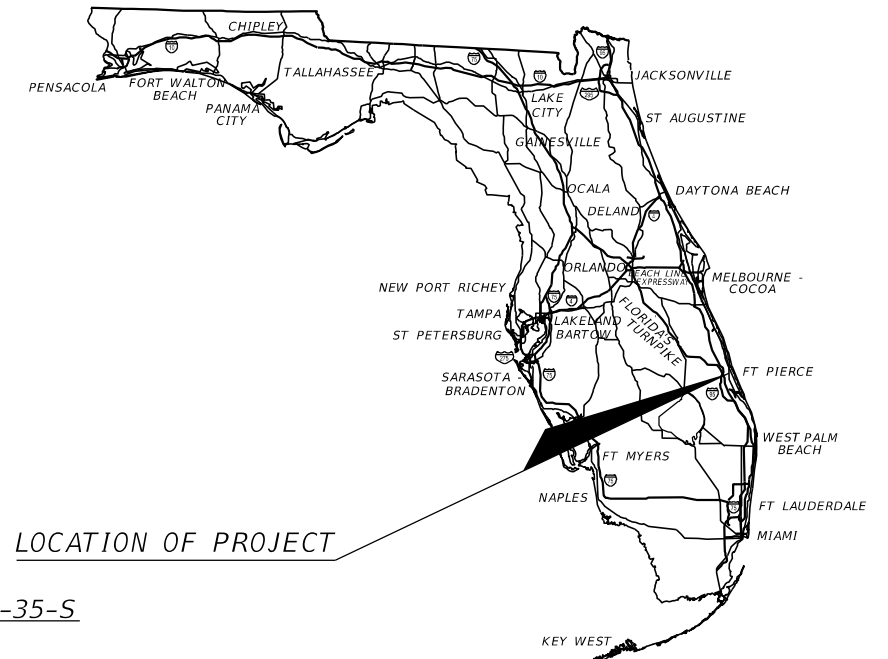


# CONTRACT PLANS

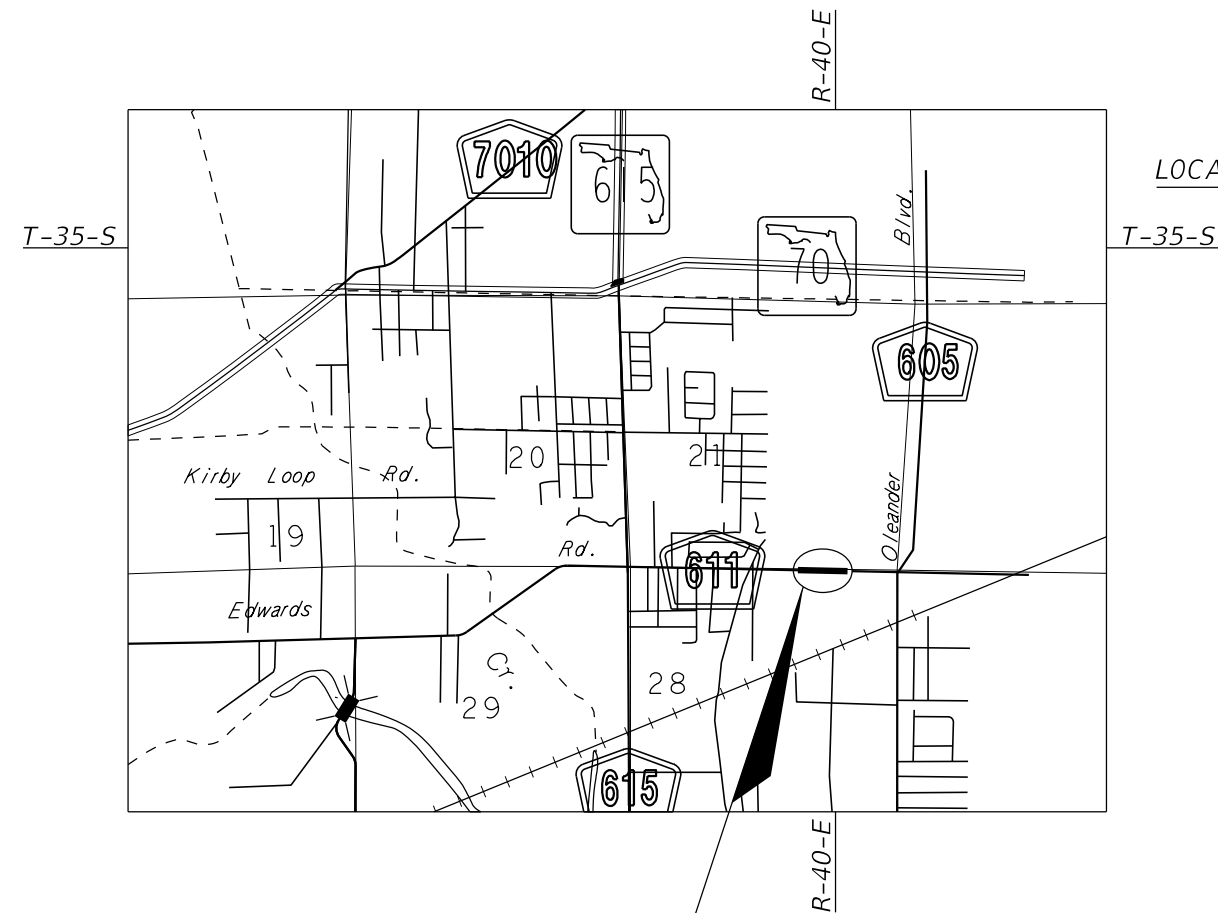
## EDWARDS ROAD CANAL REHABILITATION

### INDEX OF PLANS

SHEET NO.	SHEET DESCRIPTION
1	KEY SHEET
2	GENERAL NOTES
3	SUMMARY OF PAY ITEMS
4	PLAN AND PROFILE
5	MISCELLANEOUS DETAILS
6-8	CROSS SECTIONS



LOCATION OF PROJECT



LOCATION OF PROJECT

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: 047922019  
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.

100%  
SUBMITTAL  
JANUARY 2019



Know what's below.  
**Call before you dig.**

PREPARED FOR:

CITY OF FORT PIERCE

NRCS PROJECT NO. NR194209XXXXC001

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 STANDARD PLANS LATEST ISSUE AND THE CITY OF FT. PIERCE STANDARD DETAILS.

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  
 600 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. 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.

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

20. 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.

21. 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.

22. 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.

23. 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.

24. 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.

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

26. 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).

## 27. EXISTING UTILITY CONTACT INFORMATION:

UTILITY COMPANY	CONTACT	PHONE NUMBER	ADDRESS
AT&T DISTRIBUTION	MARK GUTIERREZ	772-460-4443	3300 OKEECHOBEE RD FORT PIERCE, FL 34947
COMCAST CABLE	WILSON LOPEZ	772-940-9310	N/A
FORT PIERCE UTILITY AUTHORITY (WATER/SEWER)	RICHARD MUTTERBACK	772-466-1600 x3425	1701 S 37TH ST FORT PIERCE, FL 34947
CITY OF FORT PIERCE (ELECTRIC/GAS)	PAUL LAGUERRE	772-466-1600 x6757	1701 S 37TH ST FORT PIERCE, FL 34947

28. 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.

29. 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		EDWARDS ROAD CANAL REHABILITATION		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			

SUMMARY OF PAY ITEM

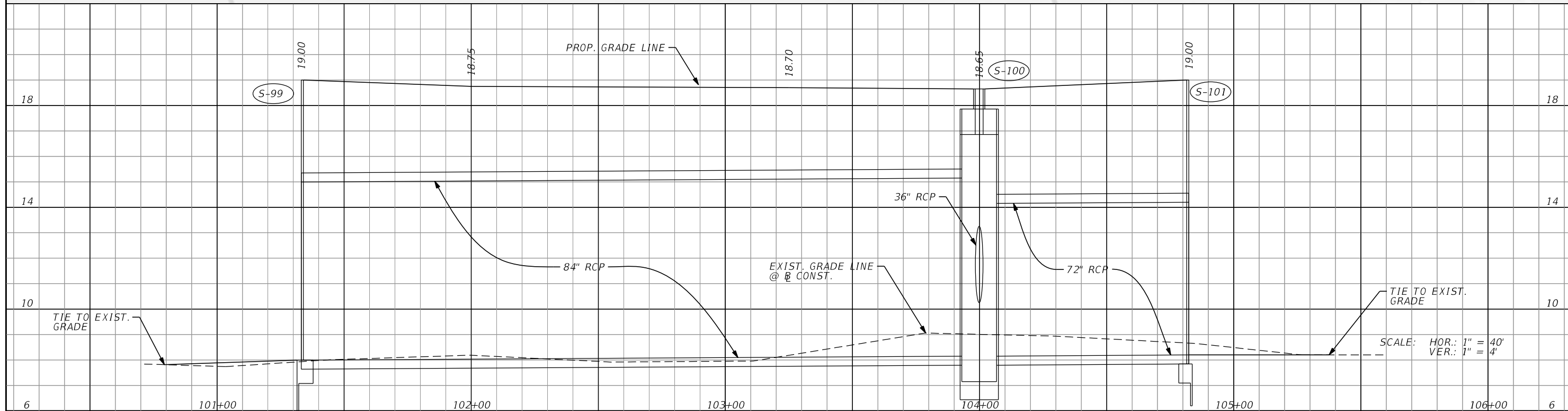
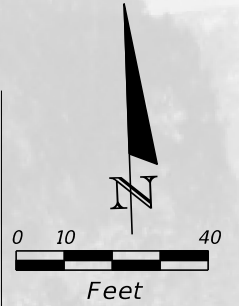
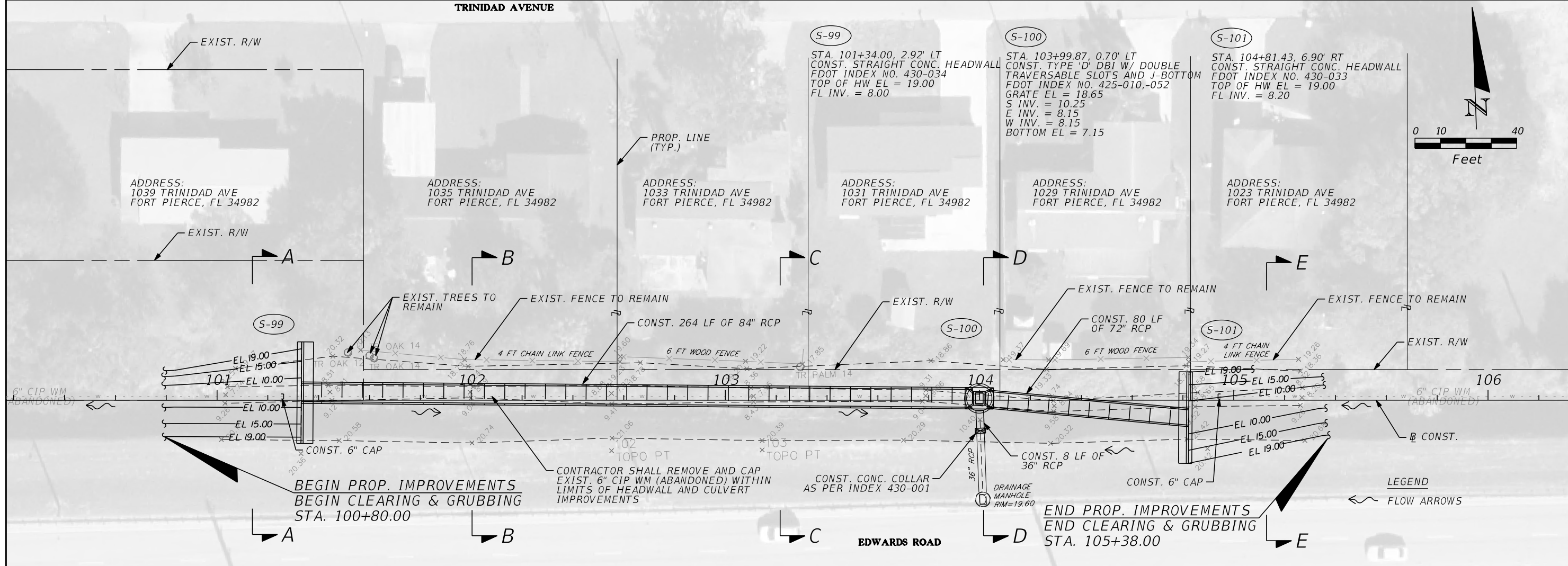
PAY ITEM NO.	DESCRIPTION	UNIT	PROJECT QUANTITY
<b>ROADWAY PAY ITEMS</b>			
101-1	MOBILIZATION/ DEMOBILIZATION	LS	1
102-1	MAINTENANCE OF TRAFFIC	LS	1
104-2	PREVENTION, CONTROL & ABATEMENT OF EROSION AND WATER POLLUTION	LS	1
108-1	CONSTRUCTION LAYOUT/ RECORD DRAWINGS	LS	1
110-1-1	CLEARING & GRUBBING	LS	1
120-1	REGULAR EXCAVATION	CY	2,512
120-6	EMBANKMENT	CY	7,201
400-2-2	CLASS II CONCRETE (ENDWALL)	CY	44.0
415-1-1	REINFORCING STEEL (ROADWAY)	LB	3,900
425-1-544	TYPE 'D' DBI W/ DOUBLE TRAVERSABLE SLOTS AND J-BOTTOM (>10')	EA	1
430-175-136	CONCRETE PIPE CULVERT (36" RCP) (S/CD) (CL III)	LF	8
430-175-172	CONCRETE PIPE CULVERT (72" RCP) (S/CD) (CL III)	LF	80
430-175-184	CONCRETE PIPE CULVERT (84" RCP) (S/CD) (CL III)	LF	264
570-1-2A	PERFORMANCE TURF (SOD) (BAHIA)	SY	3,500

PAY ITEM FOOTNOTES

- 110-1-1 COST TO INCLUDE, BUT NOT LIMITED TO, ALL MANPOWER, EQUIPMENT, HAULING, LEVELING OF TERRAIN AND PROPER DISPOSAL OF MATERIAL/VEGETATION AS DESCRIBED WITHIN PLANS. COST TO INCLUDE REMOVAL, DISPOSAL AND CAPPING EXISTING 6" CIP WM.
- 120-6 COST TO INCLUDE, BUT NOT LIMITED TO, ALL MATERIAL, EQUIPMENT, HAULING, PLACING AND COMPACTING OF MATERIAL AS DESCRIBED WITHIN THE PLANS. EMBANKMENT SHALL CONSIST OF FDOT SELECT MATERIAL AND SHALL BE COMPACTED TO 100% STANDARD PROCTOR MAX. DENSITY PER FM 1-T099, METHOD C. MATERIAL SHALL BE COMPACTED IN 6" LIFTS.
- 425-1-544 COST TO INCLUDE, BUT LIMITED TO, MATERIAL AND LABOR ASSOCIATED WITH CONCRETE INLET PAVEMENT.
- 570-1-2A COST TO INCLUDE, BUT NOT LIMITED TO, PEGGING ALL SOD PLACED ON A SLOPE STEEPER THAN 3:1.

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  EDWARDS ROAD  CANAL REHABILITATION	SUMMARY OF PAY ITEM	SHEET NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION				3

TRINIDAD AVENUE



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  
(772) 794-4100  
CERTIFICATE OF AUTHORIZATION: 00000696

CITY OF FORT PIERCE

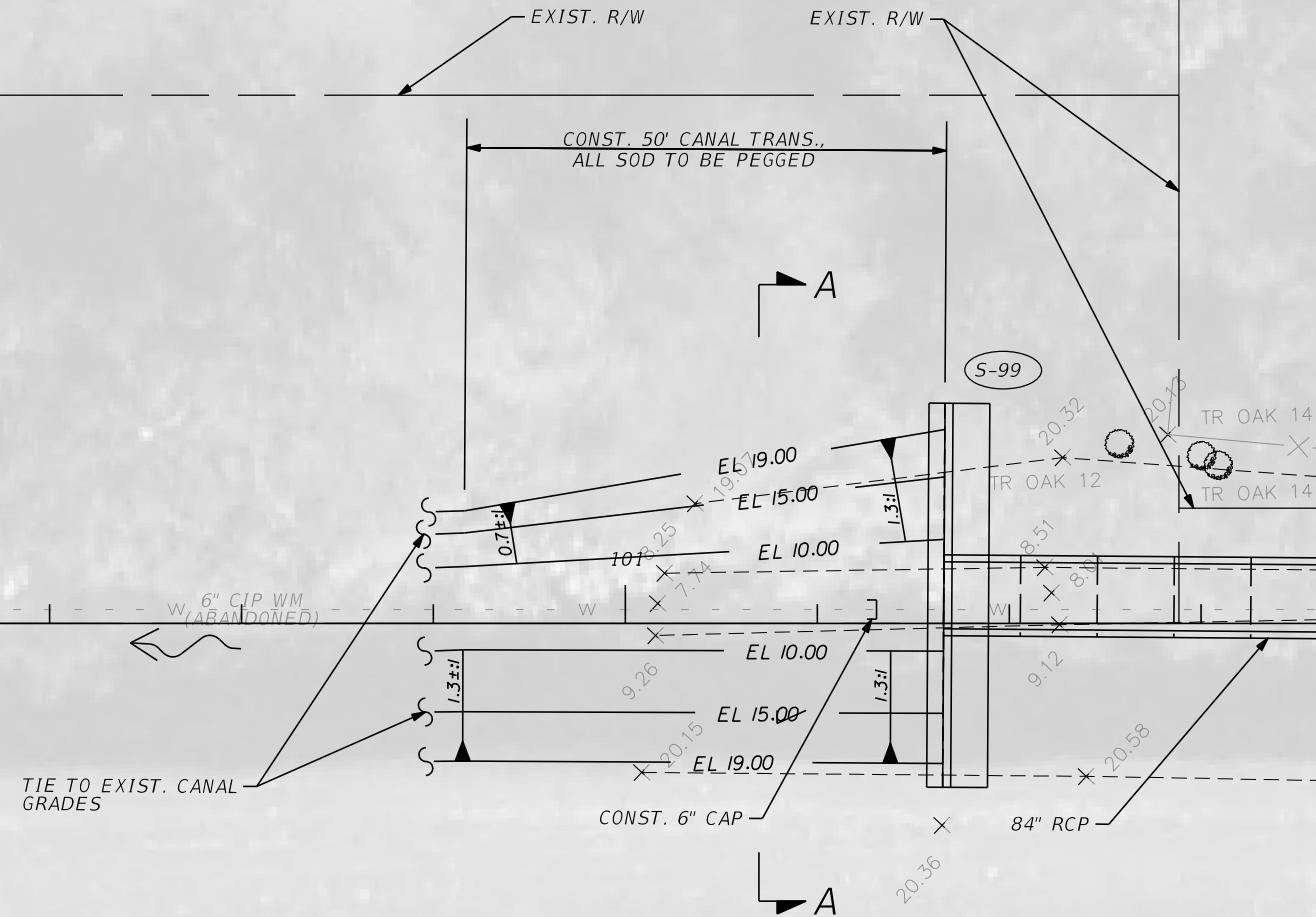
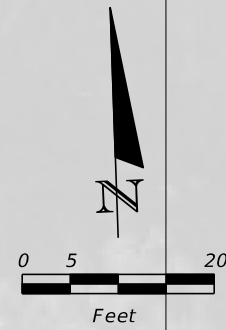
EDWARDS ROAD

CANAL REHABILITATION

PLAN & PROFILE

SHEET NO.  
4

1039 TRINIDAD AVE  
FORT PIERCE, FL 34982

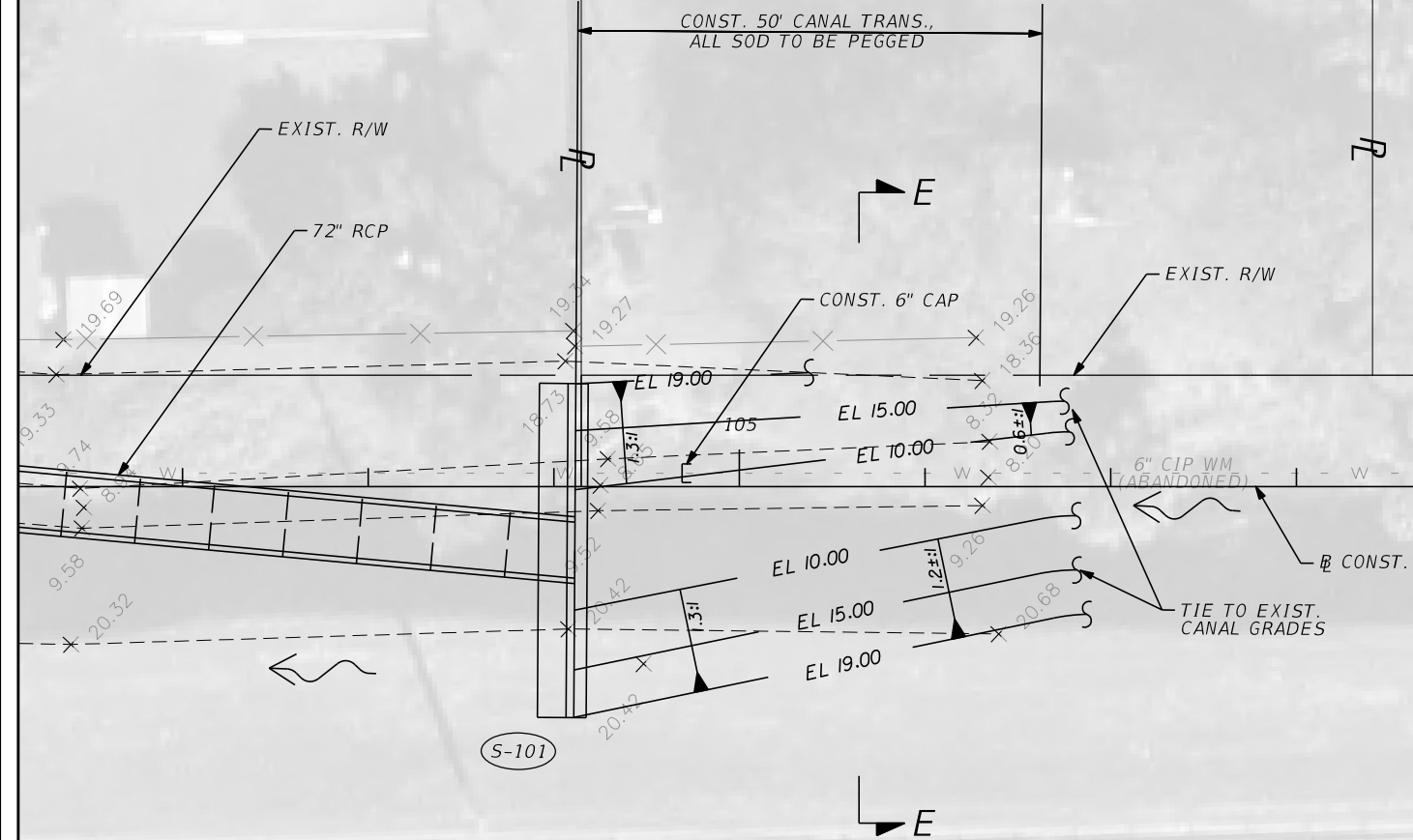
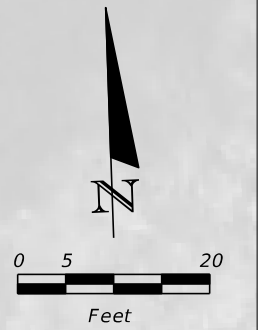


LEGEND  
FLOW ARROWS

EDWARDS ROAD

WESTERN HEADWALL GRADING DETAIL  
SCALE: 1" = 20'

1029 TRINIDAD AVE  
FORT PIERCE, FL 34982



LEGEND  
FLOW ARROWS

EDWARDS ROAD

EASTERN HEADWALL GRADING DETAIL  
SCALE: 1" = 20'

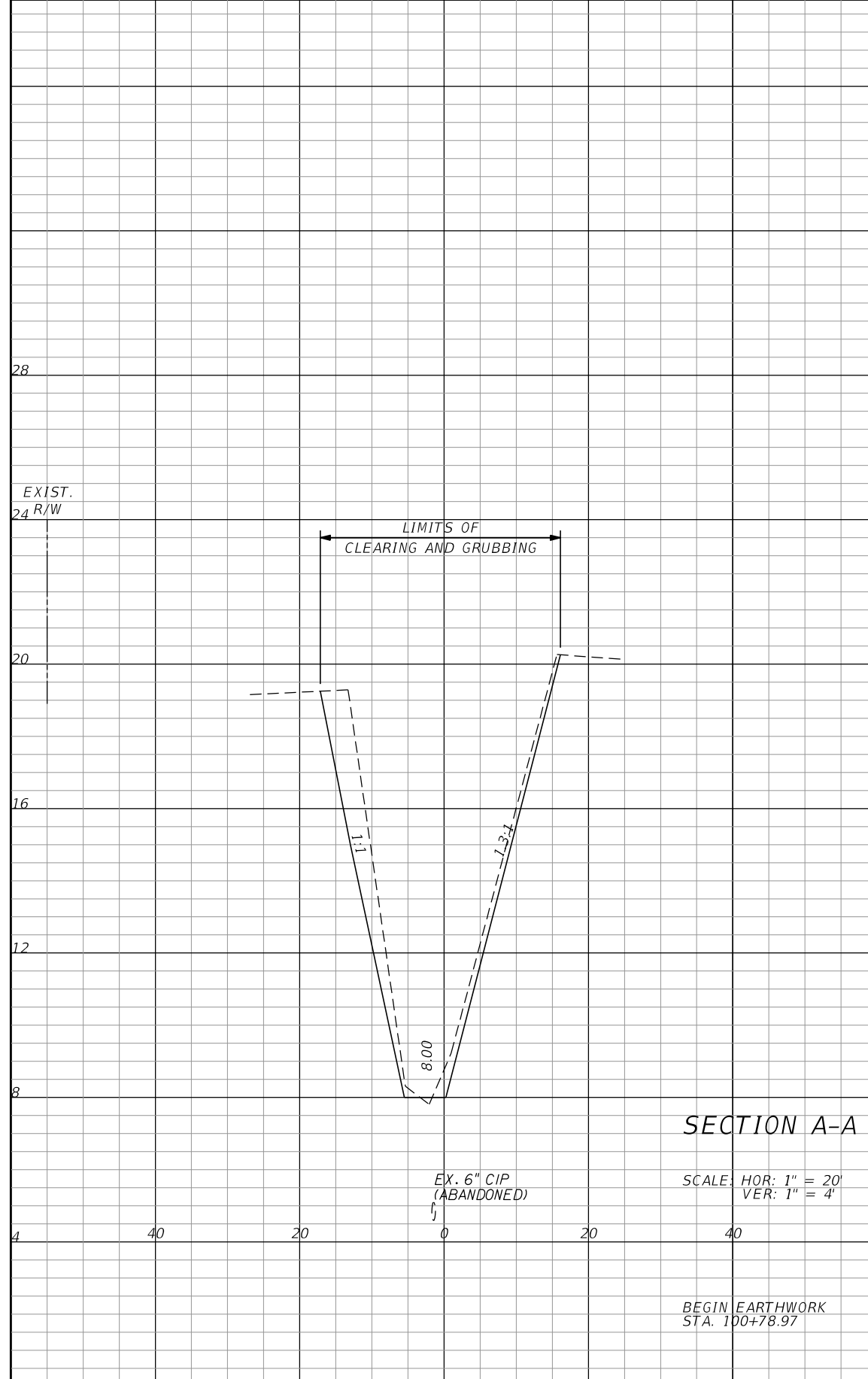
REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

**Kimley»Horn**  
BRIAN A. GOOD, P.E.  
P.E. LICENSE NUMBER 56939  
445 24th STREET, SUITE 200  
VERO BEACH, FL 32960  
(772) 794-4100  
CERTIFICATE OF AUTHORIZATION: 00000696

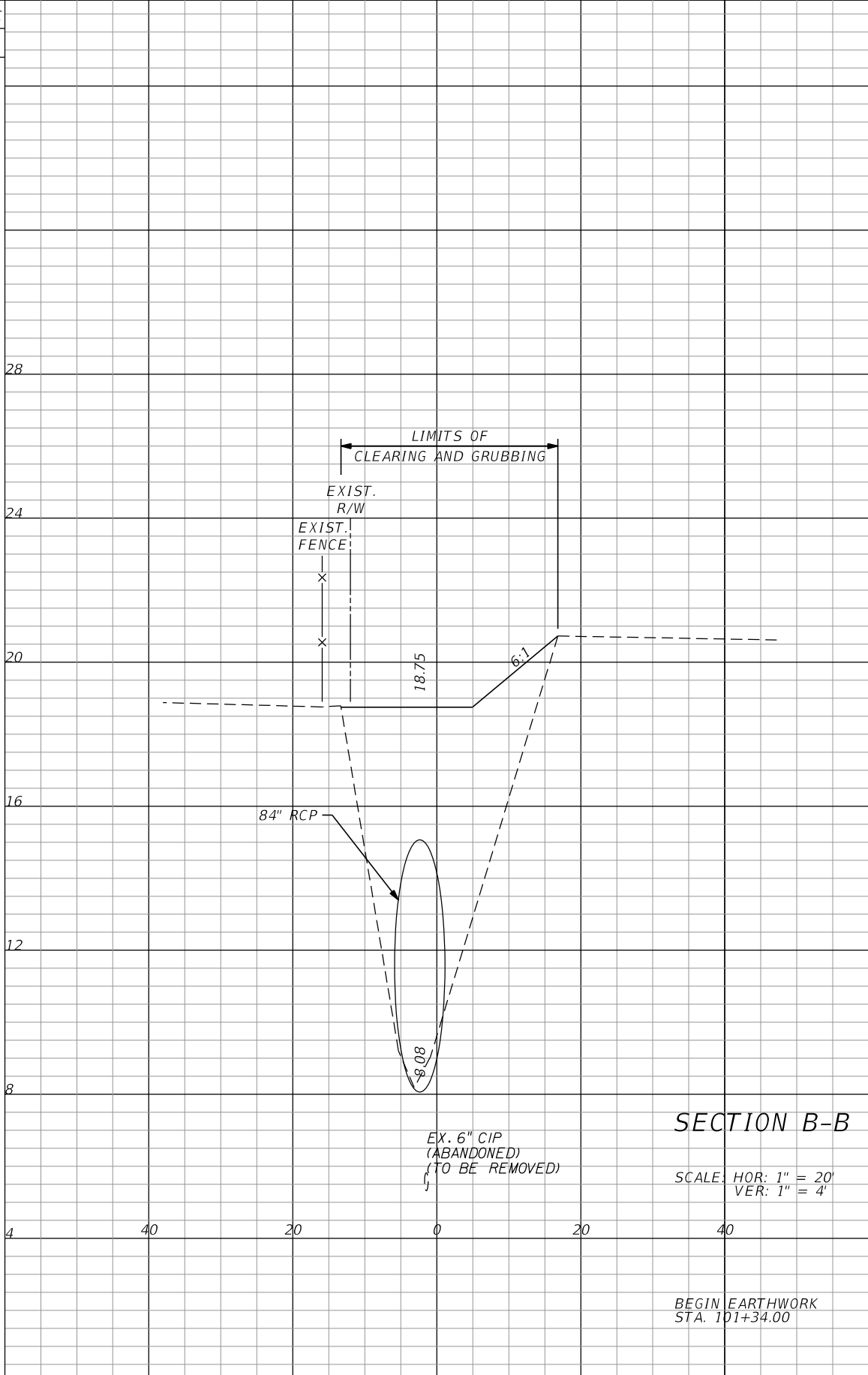
CITY OF FORT PIERCE  
EDWARDS ROAD  
CANAL REHABILITATION

MISCELLANEOUS DETAILS

SHEET NO.  
5



Regular		Exc.		Embankment	
A	V	A	V	A	V
173.2	0.8	224.5	1.0		
173.2	0.8	0	0		



Regular		Exc.		Embankment	
A	V	A	V	A	V
10.6	0.8	294.4	1.0	634	1017
10.6	0.8	0	0		

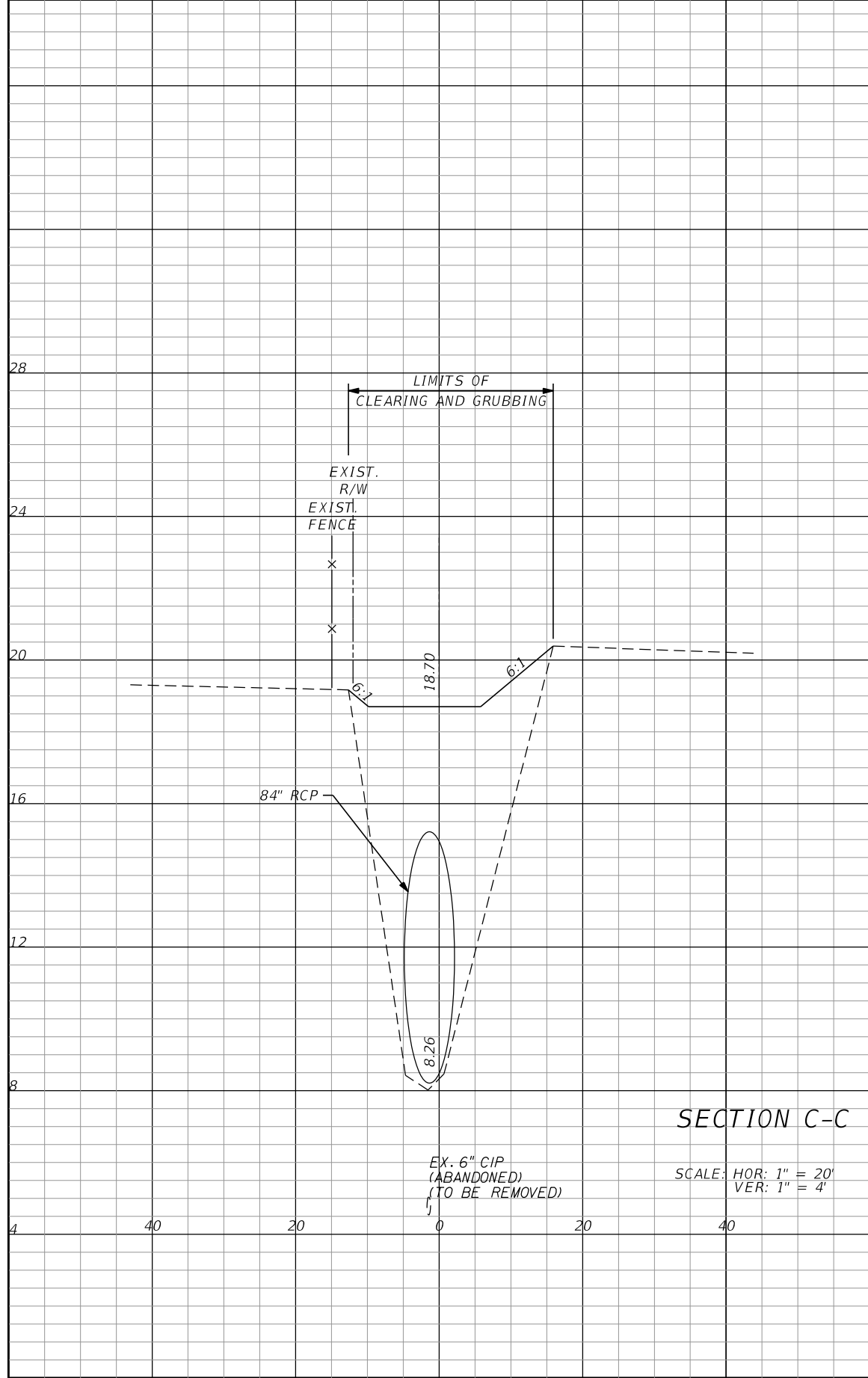
REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

**Kimley»Horn**  
 BRIAN A. GOOD, P.E.  
 P.E. LICENSE NUMBER 56939  
 445 24TH STREET, SUITE 200  
 VERO BEACH, FL 32960  
 (772) 794-4100  
 CERTIFICATE OF AUTHORIZATION: 00000696

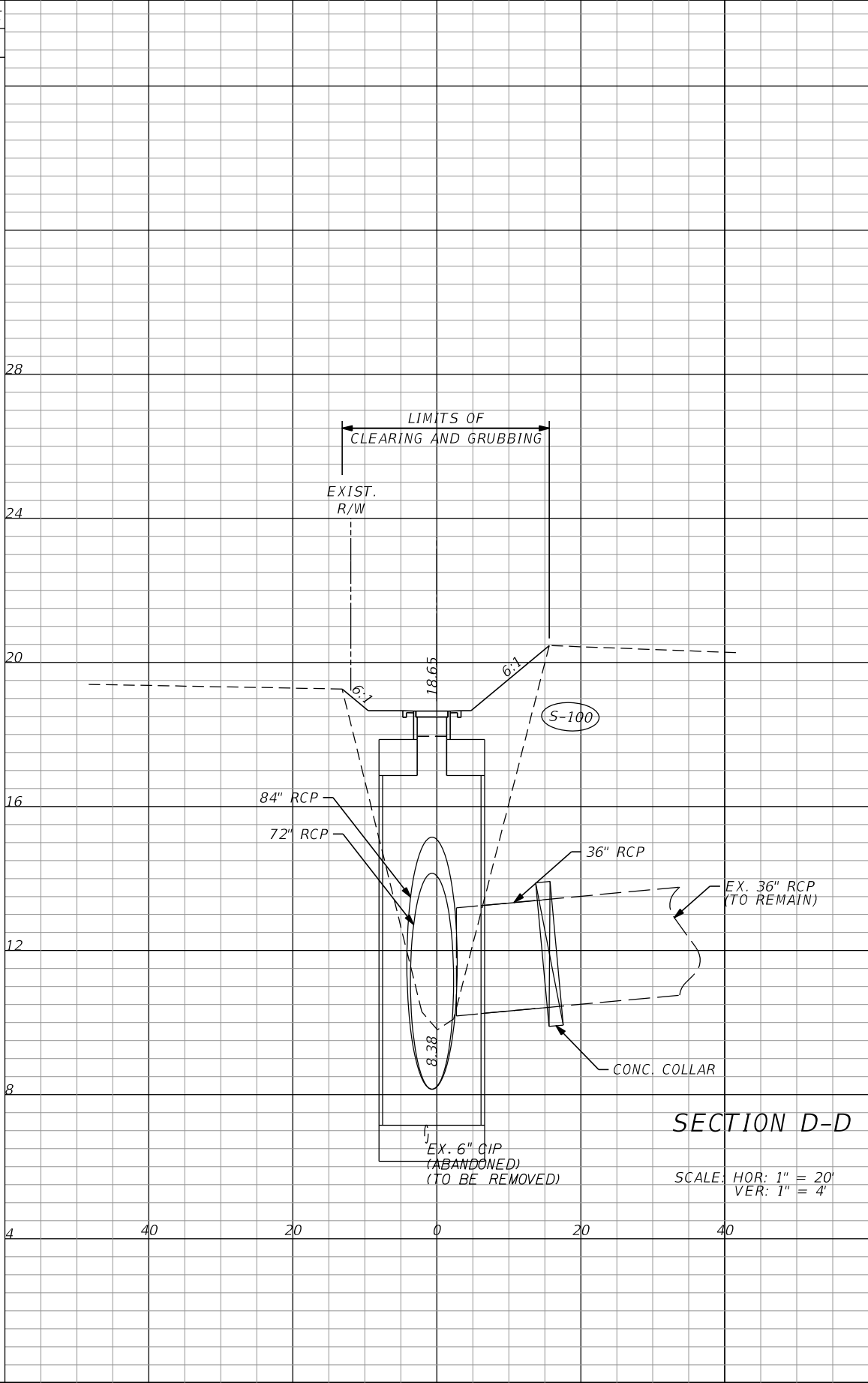
**CITY OF FORT PIERCE**  
**EDWARDS ROAD**  
**CANAL REHABILITATION**

**CROSS SECTIONS**

SHEET NO.  
**6**



Regular		Exc.		Embankment	
A	V	A	V	A	V
0		23.8		654.3	2892



Regular		Exc.		Embankment	
A	V	A	V	A	V
356.1		527.6		586.8	1839

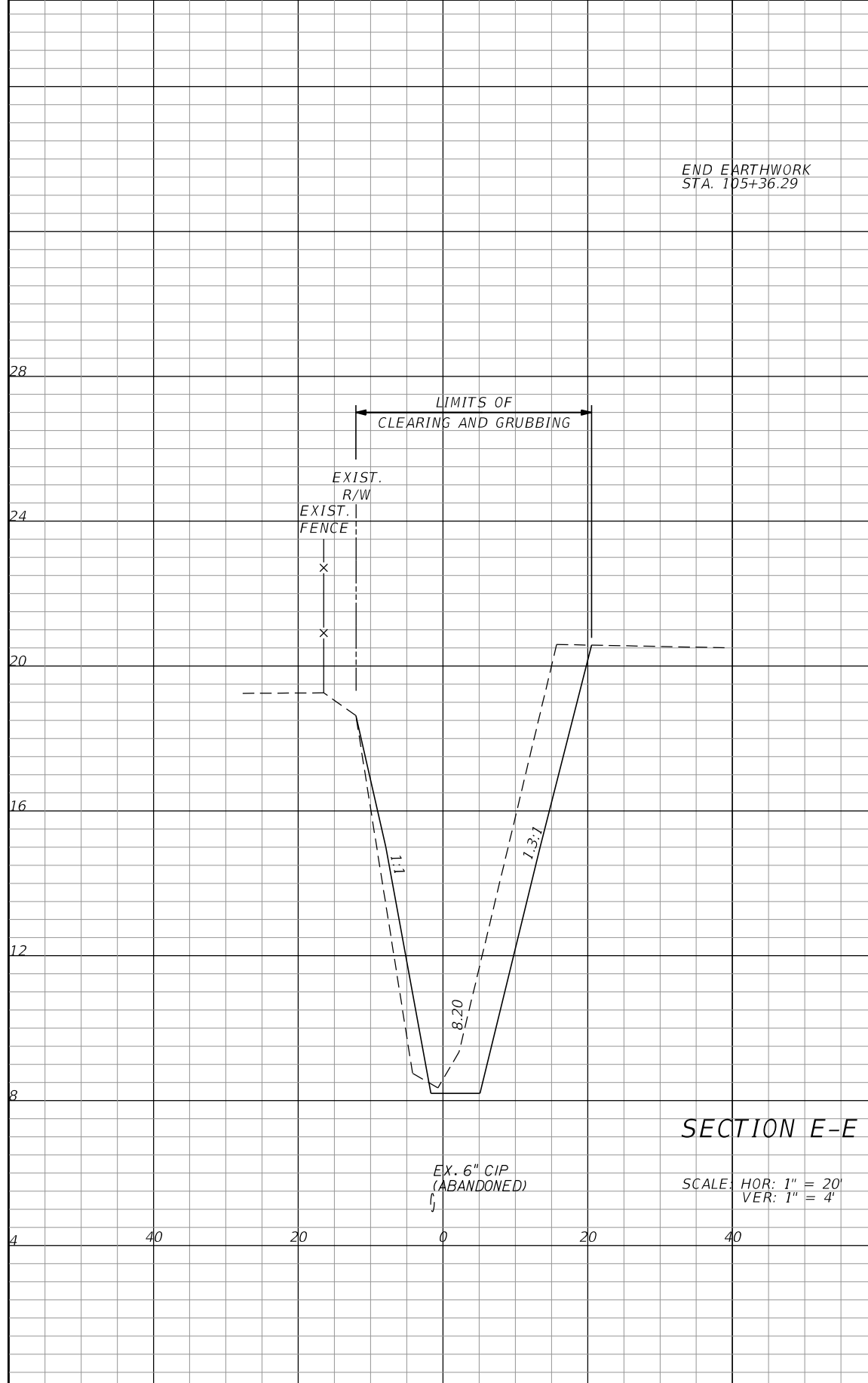
REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

**Kimley»Horn**  
 BRIAN A. GOOD, P.E.  
 P.E. LICENSE NUMBER 56939  
 445 24TH STREET, SUITE 200  
 VERO BEACH, FL 32960  
 (772) 794-4100  
 CERTIFICATE OF AUTHORIZATION: 00000696

CITY OF FORT PIERCE  
 EDWARDS ROAD  
 CANAL REHABILITATION

CROSS SECTIONS

SHEET NO.  
 7



Regular		Exc.		Embankment	
A	V	A	V	A	V
283.6	122.7	97.1	42.1		
283.6	1319	97.1	1410		

Regular		Exc.		Embankment	
A	V	A	V	A	V

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  
 (772) 794-4100  
 CERTIFICATE OF AUTHORIZATION: 00000696

**CITY OF FORT PIERCE**  
**EDWARDS ROAD**  
**CANAL REHABILITATION**

**CROSS SECTIONS**

SHEET NO.  
**8**