



July 15, 2014

John Andrews, P.E.  
Department of Engineering  
City of Fort Pierce  
100 N US 1  
Fort Pierce, FL 34950  
772-467-3774

**RE: 21<sup>st</sup> Street and Havana Sidewalk Project  
City of Fort Pierce, St. Lucie County  
FDOT FM #431689-1-58-01**

Dear Mr. Andrews,

Please accept the following responses to your comments dated May 6, 2014 concerning the above referenced project.

Comment 1) Plan Sheet 3 – Replace “pavement” with the word “concrete” for pay item nos. 425-1-521, 425-1-523 and 425-1-541A.

**Response 1) *The word pavement has been replaced by concrete to describe the inlet apron.***

Comment 2) Plan Sheet 3 – Under Pay Item Footnotes, Item 120-1A, should a quantity be noted for both excavation and embankment? Does embankment need to be stated as there is no pay item identified in the Summary of Pay Items?

**Response 2) *We have indicated an anticipated quantity associated with proposed embankment and excavation. The pay item description has been revised to indicate payment for both excavation and embankment activities associated with the project.***

Comment 3) Plan Sheet 7 – Note all utility relocations such as fire hydrant relocation, adjustments of manholes a, valve and meters shall be noted as “by others”.

**Response 3) *Noted.***

Comment 4) Plan Sheet 8 – Please verify that sufficient width remains for pedestrians to maneuver along the sidewalk at the southeast corner without encroaching onto the tactile warning surface.

**Response 4) *The proposed warning domes are positioned consistent with FDOT restricted depth curb ramps. This condition occurs due to the close proximity of the existing right of way.***

Comment 5) Plan Sheets 9 & 10 – The intersections of Havana Avenue / 17<sup>th</sup> Street, Havana Avenue / 15<sup>th</sup> Street and Havana Avenue / 13<sup>th</sup> Street have existing drainage inlets that are adjacent to where the new sidewalk will meet the asphalt pavement. Please ensure that there are no ADA access issues as they pertain to the existing location of

these inlets.

**Response 5)** *The proposed crosswalk striping has been positioned to provide no less than 36" horizontal clearance to the existing drainage structures. The proposed design meets ADA requirements.*

Comment 6) Plan Sheet 10 – Revise the reference from pavement to concrete in the S-113 description.

**Response 6)** *Reference has been revised.*

Comment 7) Plan Sheet 13 – If possible please locate the WII-2 sign at the common property line near Station 108+90 LT.

**Response 7)** *WII-2 sign has been relocated adjacent to property line.*

Comment 8) Plan Sheets 13 thru 18 – Please identify the stationing associated with all new signage.

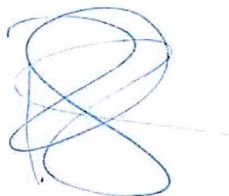
**Response 8)** *Stationing identified for all prop signs.*

Comment 9) Plan Sheet 17 – Please revise the western crosswalk so it is parallel to the eastern crosswalk.

**Response 9)** *Western crosswalk has been revised as well as sidewalk connections.*

Please contact me at 794-4083 to discuss any questions or comments that the City may have.

Sincerely,

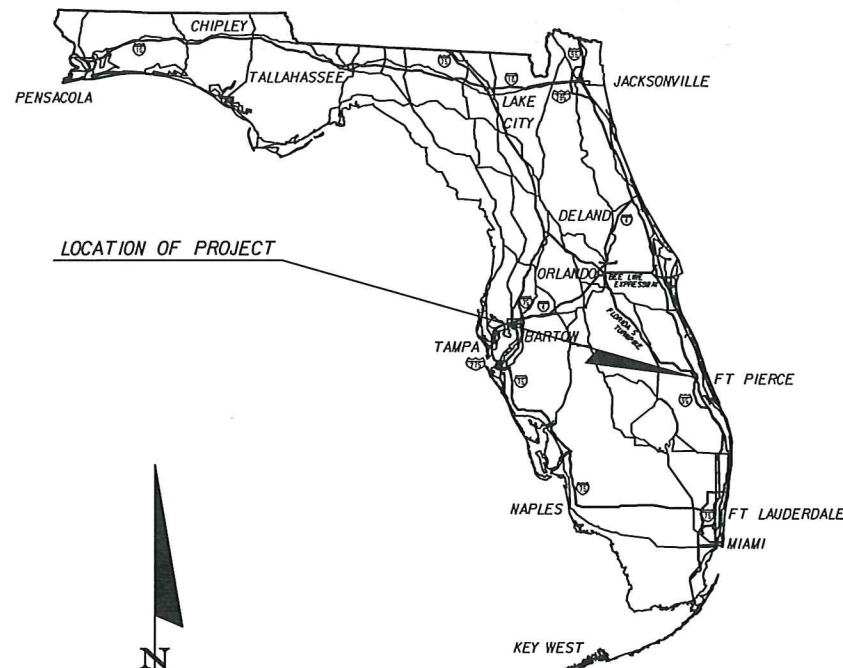


Brian A. Good, P.E.  
Senior Vice President

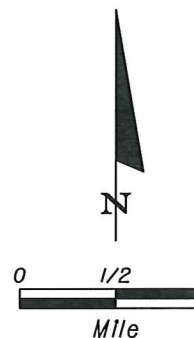
# CONTRACT PLANS

FM NUMBER: 431689-1-58-01

## S. 21ST STREET/ HAVANA AVENUE SIDEWALK 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  
and Associates, Inc.  
445 24th STREET, SUITE 200  
VERO BEACH, FL 32960  
TEL (772) 562-7981 FAX (772) 794-4100  
PROJECT NUMBER: 47922000  
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.

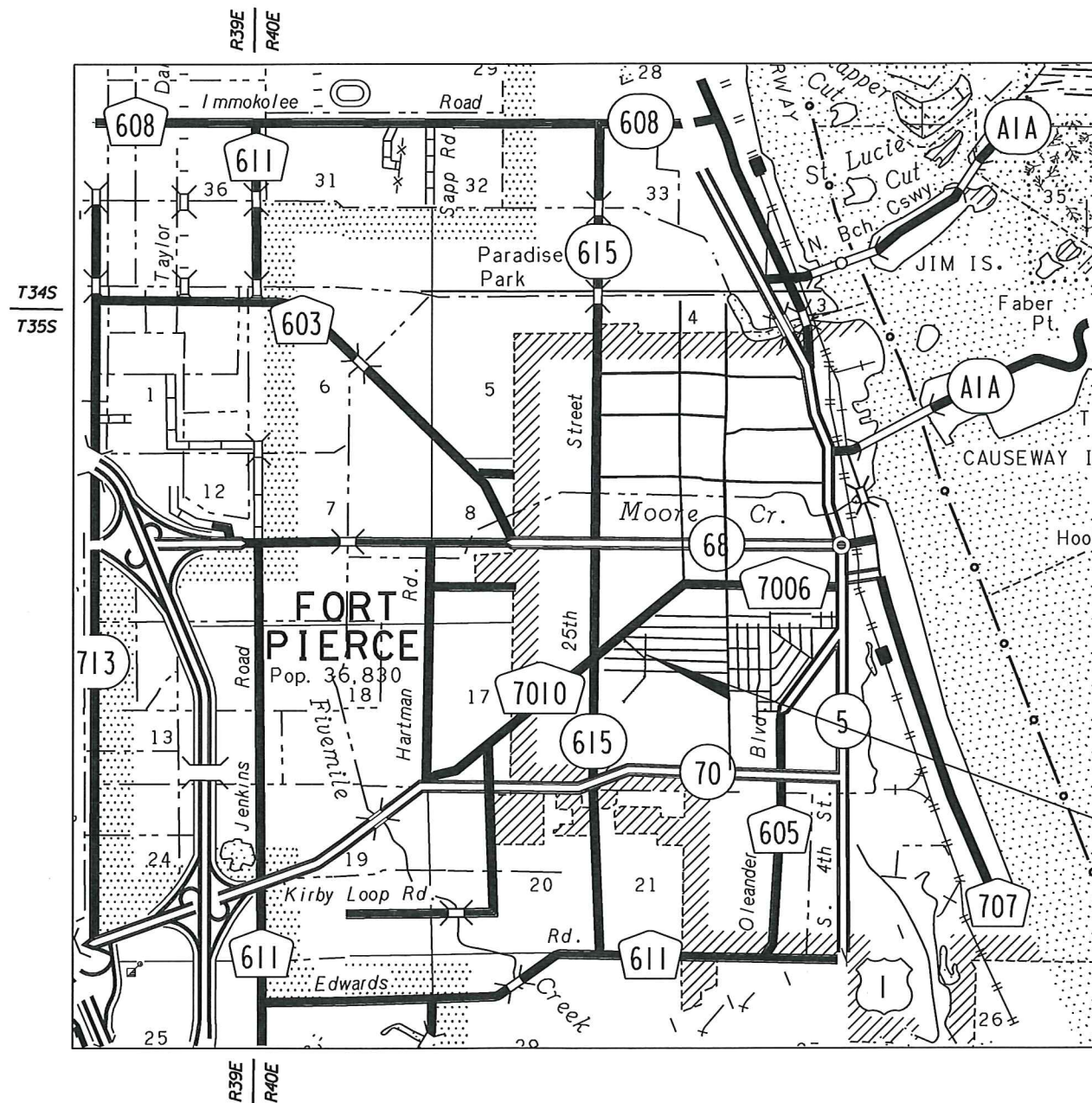
JUL 15 2014

100% PLANS  
JULY 2014

LOCATION OF PROJECT  
REFER TO PROJECT  
LAYOUT SHEET

### INDEX OF ROADWAY PLANS

SHEET NO.	SHEET DESCRIPTION
1	KEY SHEET
2	GENERAL NOTES
3	SUMMARY OF PAY ITEMS
4	TYPICAL SECTION
5	PROJECT LAYOUT
6-11	PLAN SHEETS
12	MISCELLANEOUS DETAIL SHEET
13-18	SIGNING AND MARKING



GOVERNING STANDARDS AND SPECIFICATIONS:  
FLORIDA DEPARTMENT OF TRANSPORTATION,  
DESIGN STANDARDS DATED 2014,  
AND STANDARD SPECIFICATIONS FOR ROAD AND  
BRIDGE CONSTRUCTION DATED 2014,  
AS AMENDED BY CONTRACT DOCUMENTS.

PREPARED FOR:  
CITY OF FORT PIERCE

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, 2014.

2. CONSTRUCTION DETAILS SHALL BE IN ACCORDANCE WITH STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION ROADWAY AND TRAFFIC DESIGN STANDARDS, 2014.

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 NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NGVD-'29).

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 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, FENCES, OR OTHER PRIVATE PROPERTY OR IMPROVEMENTS THAT SHALL BE REMOVED OR TEMPORARILY RELOCATED FROM PUBLIC R/W, 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 OR WITHIN PAY ITEM 110-1-2A.

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. AT NO TIME WILL LANE CLOSURES BE ALLOWED ON OKEECHOBEE ROAD WITHOUT PRIOR APPROVAL FROM THE FDOT OPERATIONS ENGINEER. THE CONTRACTOR SHALL PROVIDE A TRAFFIC CONTROL PLAN FOR APPROVAL TO THE CITY OF FORT PIERCE, PRIOR TO ANY WORK TO BE CARRIED OUT.

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 IN CONFLICT WITH PROPOSED DRAINAGE STRUCTURES SHALL BE REMOVED UNLESS OTHERWISE NOTED. ALL OTHER EXISTING DRAINAGE STRUCTURES WITHIN CONSTRUCTION LIMITS SHALL REMAIN UNLESS OTHERWISE NOTED. REMOVAL OF EXISTING DRAINAGE STRUCTURE IS TO INCLUDE ASSOCIATED PIPING TO DOWNSTREAM STRUCTURE OR TO TIE IN WITHIN PROPOSED STORM SEWER PIPING.

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.

31. PROPOSED DRAINAGE STRUCTURES HAVE BEEN SIZED BASED UPON THE AVAILABLE UTILITY INFORMATION. THE CONTRACTOR SHALL VERIFY THAT PROPOSED DIMENSIONS WILL ACCOMMODATE THE EXISTING AND PROPOSED STORM SEWER CONFIGURATION PRIOR TO SUBMITTING SHOP DRAWINGS. DRAINAGE CONNECTIONS TO EXISTING STRUCTURES SHALL BE CORE DRILLED AT THE SPECIFIED INVERT.

32. KNOWN UTILITIES:

AT&T	ROBERT LOWEN	(561) 357-6615
FORT PIERCE UTILITY AUTHORITY WATER/WASTE WATER	VALERIE SCHULTE	(772) 466-1600
FORT PIERCE UTILITY AUTHORITY GAS	PAUL LAGUERRE	(772) 466-1600 X6757
COMCAST	TONY SPRINGSTEEL	(772) 692-9010
CITY OF FORT PIERCE	TRACY TELLE	(772) 460-2200

33. EROSION CONTROL MEASURES SHALL BE TAKEN BY CONTRACTOR DURING CONSTRUCTION AS PER FDOT STANDARD INDEX #102:

- 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 STANDARD INDEX #102.
- 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.

34. DETECTABLE WARNING SURFACES SHALL CONSIST OF A.D.A. TRUNCATED DOME CONCRETE PAVING UNITS (4"X8"2 3/8"). WARNING SURFACES SHALL EXTEND TWO FEET FROM BACK OF CURB AND SPAN RAMP RUN WIDTH. WARNING SURFACE COLOR SHALL BE "BRICK RED".

35. ALL EXISTING MAILBOXES WITHIN LIMITS OF CONSTRUCTION THAT CONFLICT WITH THE PROPOSED IMPROVEMENTS SHALL BE RELOCATED IN ACCORDANCE WITH CITY AND POSTAL CODES, UNLESS OTHERWISE NOTED.

36. ALL CONCRETE UTILIZED IN CONSTRUCTION OF SIDEWALK AND/OR DRIVEWAY APRONS SHALL BE CLASS 10 MIX (3000 PSI) WITH SYNTHETIC FIBER REINFORCEMENT.

37. IF SUSPECT CONTAMINATED OR HAZARDOUS MATERIAL IS FOUND ON THE PROJECT OR ENCOUNTERED DURING CONSTRUCTION, THE CONTRACTOR SHALL CEASE OPERATIONS IN THAT AREA. IMMEDIATELY NOTIFY CITY ENGINEER JACK ANDREWS (772-460-3200 EXT. 3773) AND PROTECT THE IMMEDIATE AREA SUSPECT CONTAMINATED OR HAZARDOUS MATERIAL FROM FURTHER ACCESS. CITY ENGINEER JACK ANDREWS WILL ARRANGE FOR THE INVESTIGATION, IDENTIFICATION AND/OR REMOVAL/REMEDICATION OF THE MATERIAL IN QUESTION AS NEEDED.

38. THE CONTRACTOR SHALL NOT BRING ANY HAZARDOUS MATERIALS ONTO THE PROJECT. SHOULD THE CONTRACTOR REQUIRE SUCH FOR PERFORMING THE CONTRACTED WORK, THE CONTRACTOR SHALL REQUEST, IN WRITING, WRITTEN PERMISSION FROM THE PROJECT MANAGER. THE CONTRACTOR SHALL PROVIDE A COPY OF THE REQUEST TO THE CITY ENGINEER JACK ANDREWS. THE CONTRACTOR SHALL PROVIDE THE CITY ENGINEER JACK ANDREWS WITH A COPY OF THE MATERIAL SAFETY DATA SHEET (MSDS) FOR EACH HAZARDOUS MATERIAL PROPOSED FOR USE, AND PROVIDE A DESCRIPTION OF THE SPECIFIC MANNER IN WHICH THE MATERIAL WILL BE USED. THE PROJECT ENGINEER SHALL COORDINATE WITH THE CITY ENGINEER JACK ANDREWS PRIOR TO ISSUING WRITTEN APPROVAL TO THE CONTRACTOR. BECAUSE STATE LAW DOES NOT TREAT PETROLEUM PRODUCTS THAT ARE PROPERLY CONTAINERIZED AS HAZARDOUS MATERIALS, SUCH PRODUCTS DO NOT REQUIRE AN MSDS SUBMITTAL. ALL BULK PETROLEUM PRODUCTS STORED ON SITE SHALL REQUIRE PROPER STORAGE WHICH INCLUDES SECONDARY CONTAINMENT.

39. THE CONTRACTOR SHALL COORDINATE SELECTION AND REVIEW OF ANY PROPOSED STAGING AREAS ASSOCIATED WITH THIS PROJECT WITH THE CITY ENGINEER JACK ANDREWS (772-460-3200 EXT. 3773). THE CONTRACTOR IS PROHIBITED FROM STAGING OF VEHICLES/EQUIPMENT IN PAL PARK.

40. PRIOR TO REMOVAL OF ANY SHRUBS OR TREES WITHIN RIGHT OF WAY, THE CONTRACTOR SHALL COORDINATE WITH THE APPROPRIATE OWNER IN REGARDS TO REPLACING OR RELOCATION AT THE EXPENSE THE APPROPRIATE OWNER.

41. ALL WORK SHALL BE PERFORMED ENTIRELY WITHIN AND FROM EXISTING RIGHT OF WAY.

42. ALL EXISTING FRANCHISE UTILITY IMPROVEMENTS THAT ARE NEEDED TO BE ADJUSTED/REMOVED SHALL BE PERFORMED BY THE FRANCHISE UTILITY OWNER. THE CONTRACTOR IS RESPONSIBLE TO NOTIFY/COORDINATE THESE ACTIVITIES IN CONJUNCTION WITH THE PROPOSED IMPROVEMENTS.



Kimley-Horn and Associates, Inc.  
 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

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

<b>CITY OF FORT PIERCE</b> <b>S. 21ST STREET/ HAVANA AVENUE</b> <b>SIDEWALK PROJECT</b>	<b>GENERAL NOTES</b>	SHEET NO. <b>2</b>
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# SUMMARY OF PAY ITEMS

PAY ITEM NO.	DESCRIPTION	UNIT	PROJECT QUANTITY
101-1A	MOBILIZATION/DEMObILIZATION	LS	1
102-1	MAINTENANCE OF TRAFFIC	LS	1
104-2A	PREVENTION, CONTROL & ABATEMENT OF EROSION AND WATER POLLUTION	LS	1
108-1A	CONSTRUCTION LAYOUT/RECORD DRAWINGS	LS	1
110-1-2A	CLEARING & GRUBBING (SELECT)	LS	1
110-7-2	MAILBOX (RELOCATION)	EA	9
120-1A	REGULAR EXCAVATION / EMBANKMENT	LS	1
285-714	CEMENTED COQUINA BASE (LBR 100) (14")	SY	90
334-1-13	SUPERPAVE ASPHALTIC CONCRETE (TYPE 12.5) (TRC)	TN	15
400-2	CLASS I CONCRETE (ENDWALLS)	CY	15
425-1-521	INLETS, DT BOT, TYPE C W/ CONCRETE (<10')	EA	3
425-1-523	INLETS, DT BOT, TYPE C W/ CONCRETE, J-BOTTOM, (<10')	EA	3
425-1-541A	INLETS, DT BOT, TYPE D W/ CONCRETE, (SPECIAL), (<10')	EA	2
425-2-41	MANHOLES (P-7), (<10')	EA	4
425-5-1	MANHOLES - ADJUST	EA	4
425-11	MODIFY DRAINAGE STRUCTURE	EA	1
430-175-115	PIPE CULVERT (15" RCP) (CL III)	LF	51
430-175-136	PIPE CULVERT (36" RCP) (CL III)	LF	48
522-1	CONCRETE SIDEWALK (4" THICK)	SY	2,623
522-2	CONCRETE SIDEWALK (6" THICK)	SY	1,853
522-3	CONCRETE SIDEWALK (8" THICK)	SY	14
527-2	DETECTABLE WARNING SURFACE	SF	304
570-1-2A	PERFORMANCE TURF (SOD) (BAHIA)	LS	1
570-1-2B	PERFORMANCE TURF (SOD) (ST. AUGUSTINE)	SY	75
700-20-11	SINGLE POST SIGN (LESS THAN 12 SF)	EA	25
700-20-40A	SINGLE POST SIGN (RELOCATE)	EA	6
706-3	RETRO REFLECTIVE PAVEMENT MARKERS	EA	26
711-11-123	THERMOPLASTIC (STANDARD) (WHITE) (SOLID) (12")	LF	1,895
711-11-125	THERMOPLASTIC (STANDARD) (WHITE) (SOLID) (24")	LF	290
711-11-221	THERMOPLASTIC (STANDARD) (YELLOW) (SOLID) (6")	LF	702
711-17A	THERMOPLASTIC (REMOVAL)	LS	1

## PAY ITEM FOOTNOTES

- 104-2A** COST TO INCLUDE ALL EROSION CONTROL MEASURES SUCH AS SILT FENCE, INLET PROTECTION, SOILTRACKING PREVENTION DEVICES, MAINTENANCE AND REMOVAL.
- 110-1-2A** COST TO INCLUDE COMPLETE REMOVAL AND DISPOSAL OF ALL VEGETATION, CONCRETE, DEBRIS, DRAINAGE STRUCTURES OR ANY OTHER OBSTRUCTION IN ALL AREAS WHERE IMPROVEMENTS ARE PROPOSED. COST TO INCLUDE ALL DESIGNATED ROOT PRUNING/TREE TRIMMING ACTIVITIES INDICATED WITHIN THESE CONSTRUCTION DOCUMENTS.
- 120-1A** ALL GRADING INCLUDING FINAL GRADING TO BE INCLUDED IN THE COST OF REGULAR EXCAVATION/EMBANKMENT. THE ESTIMATED QUANTITIES ASSOCIATED WITH REGULAR EXCAVATION IS 604 CY AND EMBANKMENT IS 67 CY.
- 522-1, 522-2, 522-3** ALL SIDEWALK JOINTS ARE TO BE SAWCUT AS PER FDOT SPECIFICATION. TOOLED JOINTS WILL NOT BE PERMITTED. COST TO INCLUDE CURB AND GUTTER ASSOCIATED WITH CURB RAMP CONSTRUCTION.
- 570-1-2A, 570-1-2B** THE ESTIMATED QUANTITY FOR PERFORMANCE TURF (BAHIA) IS 8,000 SY. COST OF PERFORMANCE TURF TO INCLUDE SOD, FERTILIZER, MOWING, WATERING, TOOLS, EQUIPMENT, LABOR AND ALL INCIDENTAL ITEMS NECESSARY. TURF TO MATCH EXISTING ADJACENT R/W TURF. ALL OTHER AREAS DISTURBED AS A RESULT OF CONSTRUCTION ACTIVITIES SHALL BE REPAIRED AND SODDED AT NO ADDITIONAL COST TO THE CITY.
- 711-17A** COST TO INCLUDE REMOVAL OF EXISTING PAVEMENT MARKING AT THE HAVANA AVENUE / 21ST STREET INTERSECTION IN CONFLICT WITH PROPOSED MARKING.

## SUMMARY OF TURNOUTS

STREET NAME	SIDE	WIDTH (FT)	CONCRETE AREA (SY)	
			CONCRETE SIDEWALK (6" THICK)	
STATION			PLAN	FINAL
<b>BIRCH STREET/ S. 21ST STREET</b>				
107+32.85	LT	12.0	25.0	
108+12.13	LT	15.0	29.1	
110+24.00	LT	12.0	24.6	
111+03.17	LT	12.0	26.7	
114+07.02	LT	12.0	26.8	
115+04.22	LT	12.0	27.1	
116+03.61	LT	12.0	29.0	
119+78.62	LT	12.0	24.6	
124+54.74	RT	12.0	23.2	
<b>HAVANA AVENUE</b>				
217+45.04	RT	12.0	23.5	
218+11.67	RT	12.0	22.4	
218+21.73	LT	14.8	28.0	
218+85.46	LT	16.6	30.2	
218+88.45	RT	15.0	27.4	
219+32.29	LT	12.0	23.9	
219+65.55	RT	12.0	21.7	
220+24.39	RT	12.0	21.9	
220+28.85	LT	12.0	23.1	
220+86.03	RT	12.0	22.0	
221+16.96	LT	12.0	23.2	
221+44.79	RT	14.0	25.1	
221+83.57	LT	17.5	31.6	
222+03.99	RT	18.0	31.3	
222+53.08	LT	12.0	24.0	
225+17.35	LT	21.8	38.4	
225+51.02	RT	12.0	23.6	
226+10.23	LT	12.0	24.5	
226+88.81	LT	12.0	24.6	
226+97.93	RT	20.3	35.6	
227+14.31	LT	12.0	25.3	
227+97.00	LT	18.0	32.6	
228+23.99	RT	13.0	24.9	
228+80.13	LT	12.0	23.5	
228+87.91	RT	12.0	23.2	
229+62.91	LT	12.0	24.1	
231+60.48	RT	12.0	23.4	
231+86.29	LT	16.5	30.3	
232+24.50	RT	12.0	23.0	
232+45.50	RT	12.0	23.0	
232+86.55	LT	26.5	44.5	
233+21.98	RT	12.0	23.0	
233+83.55	RT	12.0	22.3	
233+95.52	LT	21.1	36.7	
234+46.13	LT	10.0	31.2	
234+56.19	RT	12.0	23.2	
235+12.77	LT	91.7	141.9	
235+18.82	RT	12.0	21.9	
<b>UNFORSEEN</b>			100.0	
<b>TOTAL:</b>			1459.6	

### REVISIONS

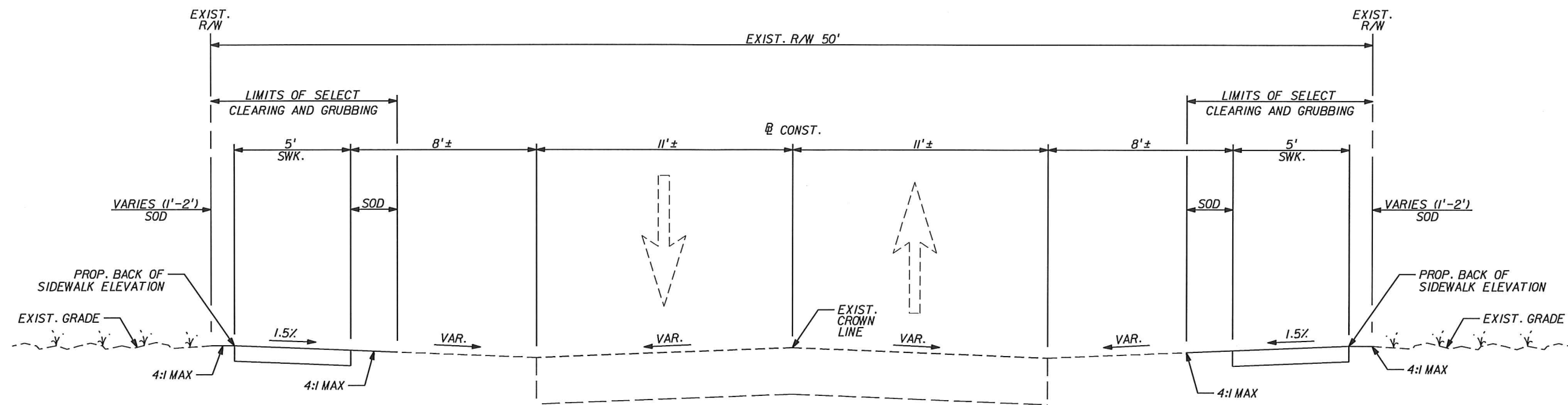
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

Kimley-Horn  
and Associates, Inc.

**CITY OF FORT PIERCE**  
**S. 21ST STREET/ HAVANA AVENUE**  
**SIDEWALK PROJECT**

**SUMMARY OF PAY ITEMS**

SHEET NO.  
**3**



**BIRCH STREET/ S. 21ST STREET**

STA. 106+52.58 TO 127+85.91

**HAVANA AVENUE**

STA. 211+45.02 TO 237+09.09

POSTED SPEED = 25 MPH  
DESIGN SPEED = 30 MPH

**CONCRETE SIDEWALK DESIGN**

4", 6" OR 8" THICK 3000 PSI CONC. W/ FIBERMESH. REFER TO CONSTRUCTION PLANS AS TO SIDEWALK THICKNESS LOCATIONS. ALL SIDEWALK TO BE BE 4" THICK UNLESS OTHERWISE IDENTIFIED.

**BRIAN A. GOOD**  
LICENSE  
No. 56939  
JUL 15 2014  
Kimley-Horn and Associates, Inc.  
BRIAN A. GOOD, P.E.  
P.E. LICENSE NUMBER 56939  
445 24th STREET, SUITE 200  
VERO BEACH, FL 32909  
(772) 794-4000  
CERTIFICATE OF AUTHORIZATION 00000696

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

**CITY OF FORT PIERCE**  
**S. 21ST STREET/ HAVANA AVENUE**  
**SIDEWALK PROJECT**

**TYPICAL SECTION**

SHEET NO.  
**4**



BRIAN A. GOOD  
 LICENSE  
 No. 5693  
 JUL 15 2014

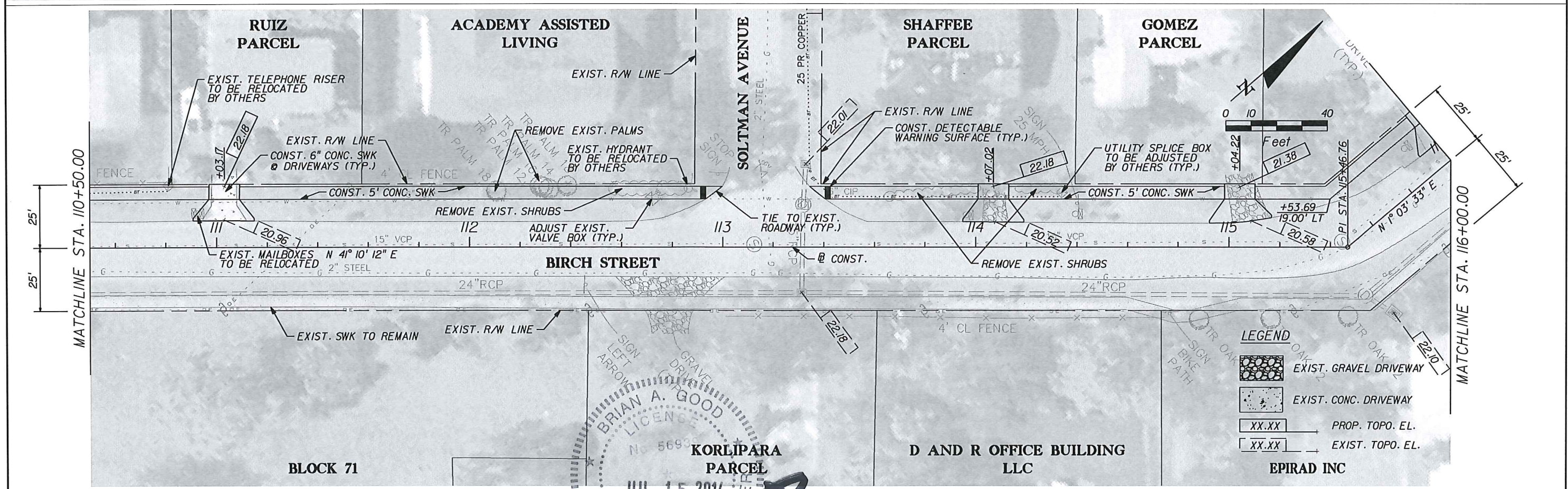
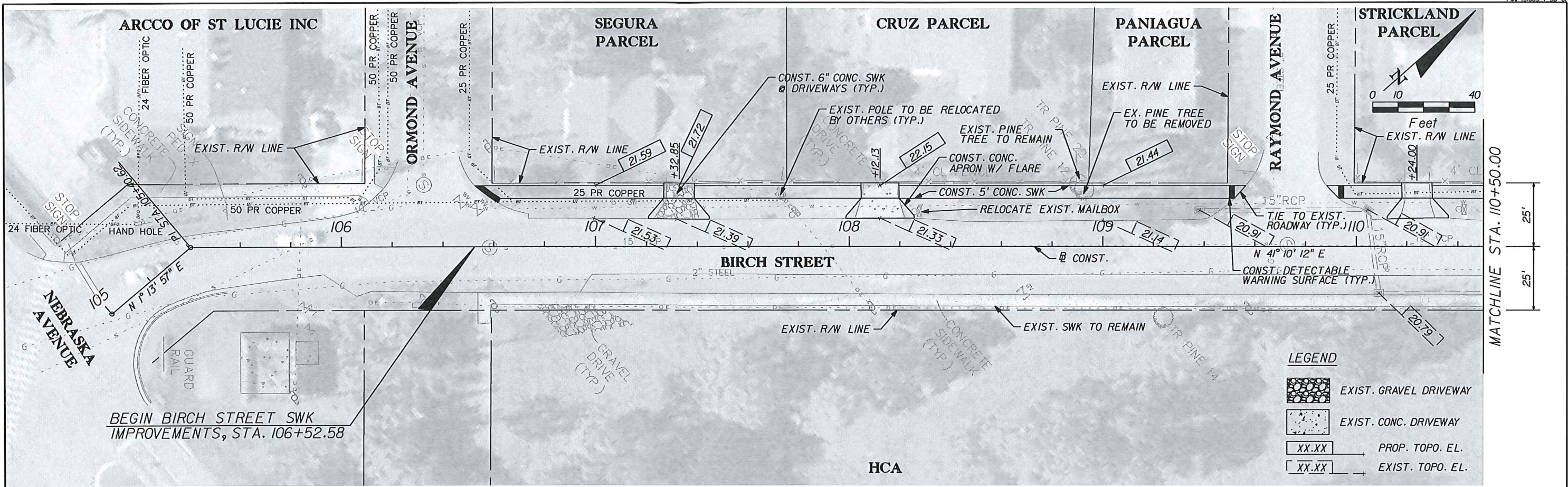
REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

**Kimley-Horn and Associates, Inc.**  
 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**  
**S. 21ST STREET/ HAVANA AVENUE**  
**SIDEWALK PROJECT**

**PLAN SHEET LAYOUT**

SHEET NO.  
 5

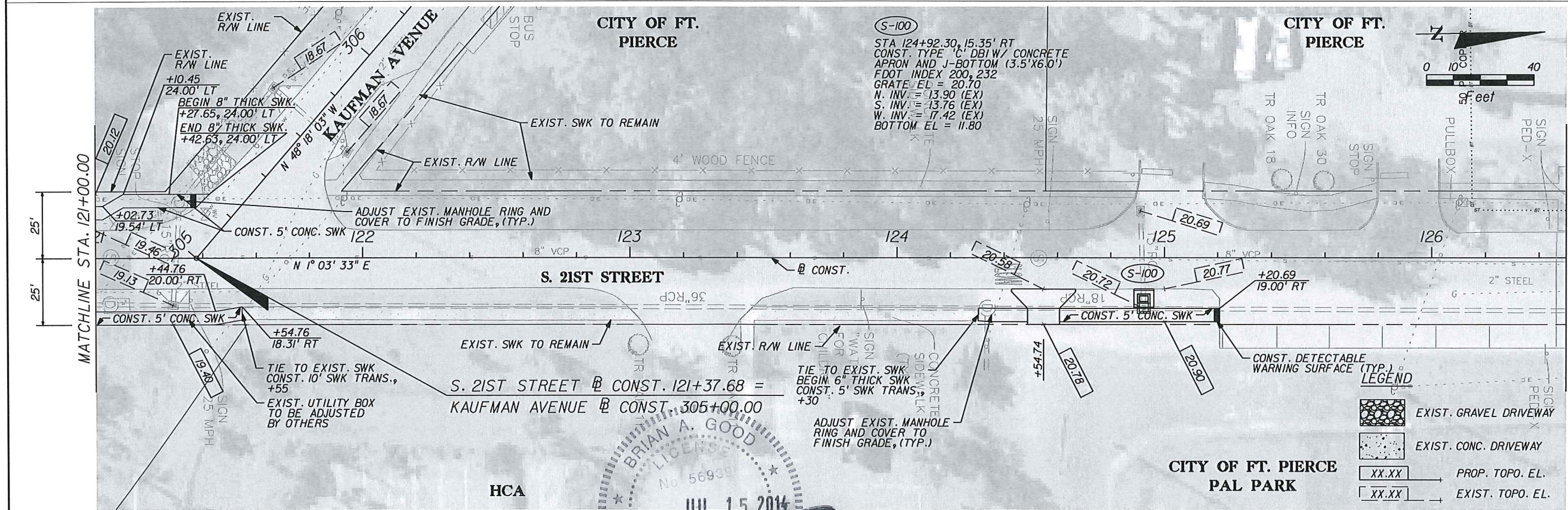
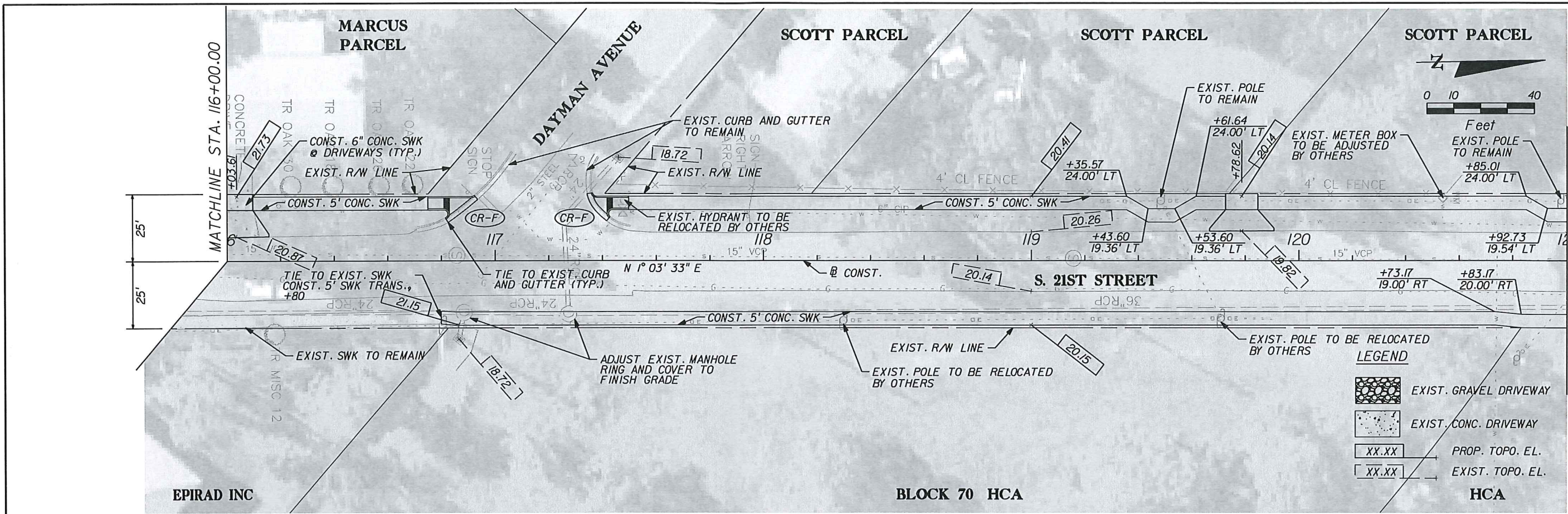


REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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**  
**S. 21ST STREET/ HAVANA AVENUE**  
**SIDEWALK PROJECT**

**PLAN SHEET 1**  
 SHEET NO. 6

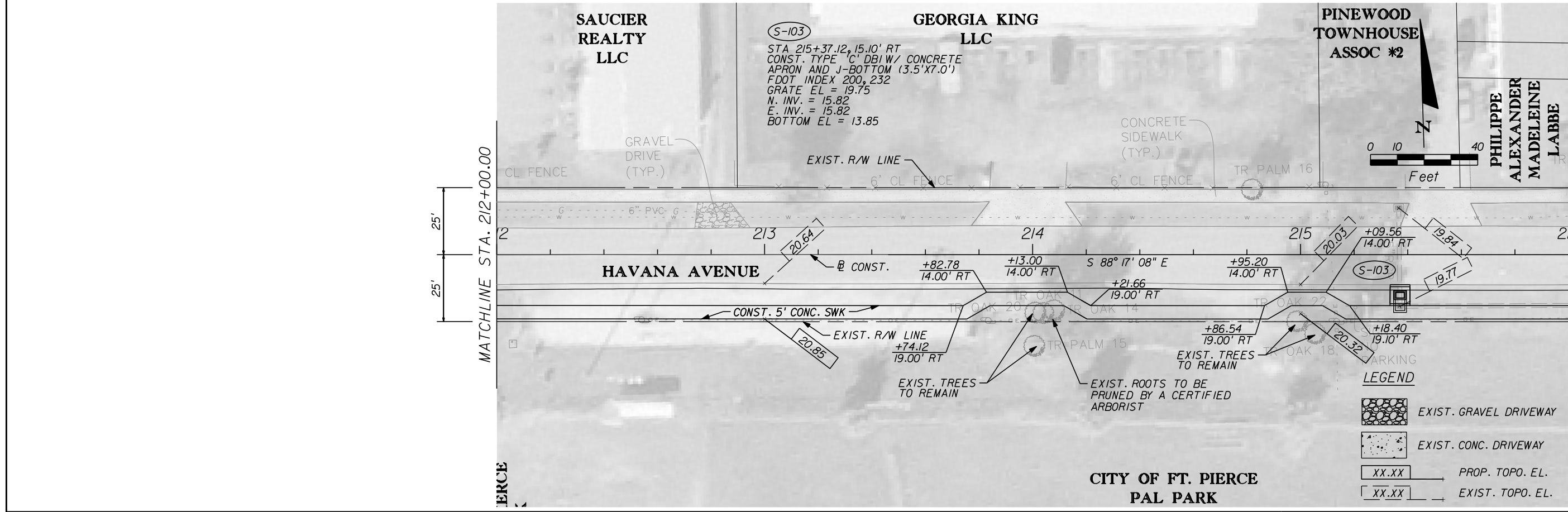
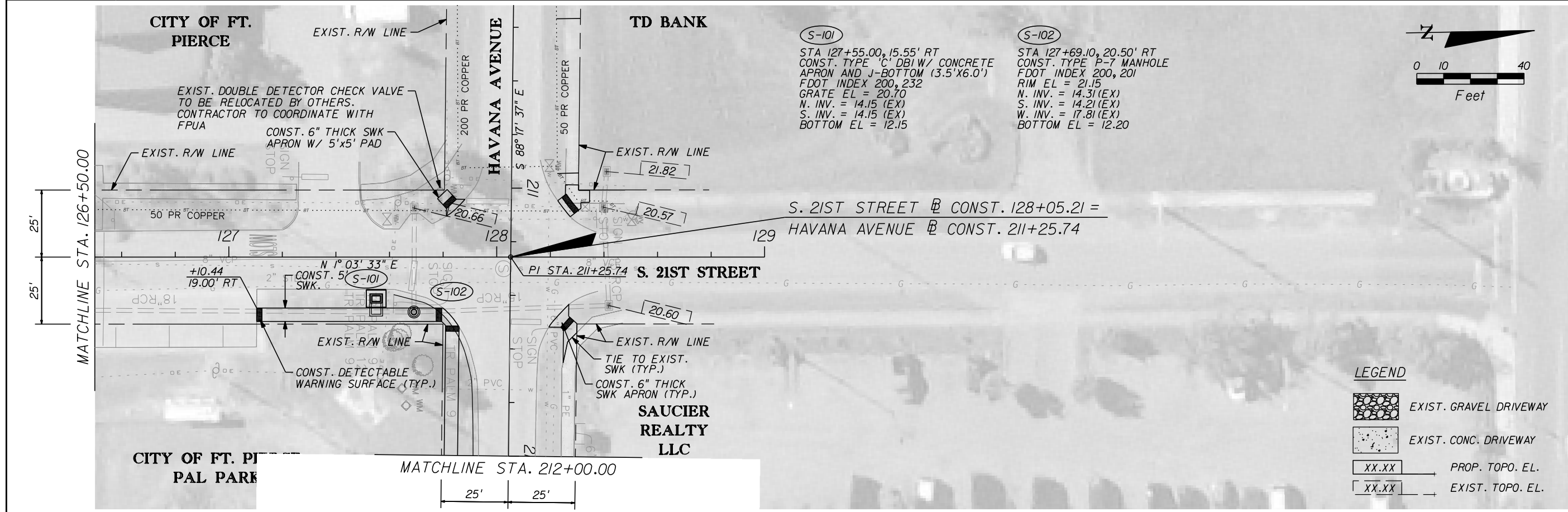


REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

Brian A. Good, 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**  
**S. 21ST STREET/ HAVANA AVENUE**  
**SIDEWALK PROJECT**

**PLAN SHEET 2**  
 SHEET NO. 7



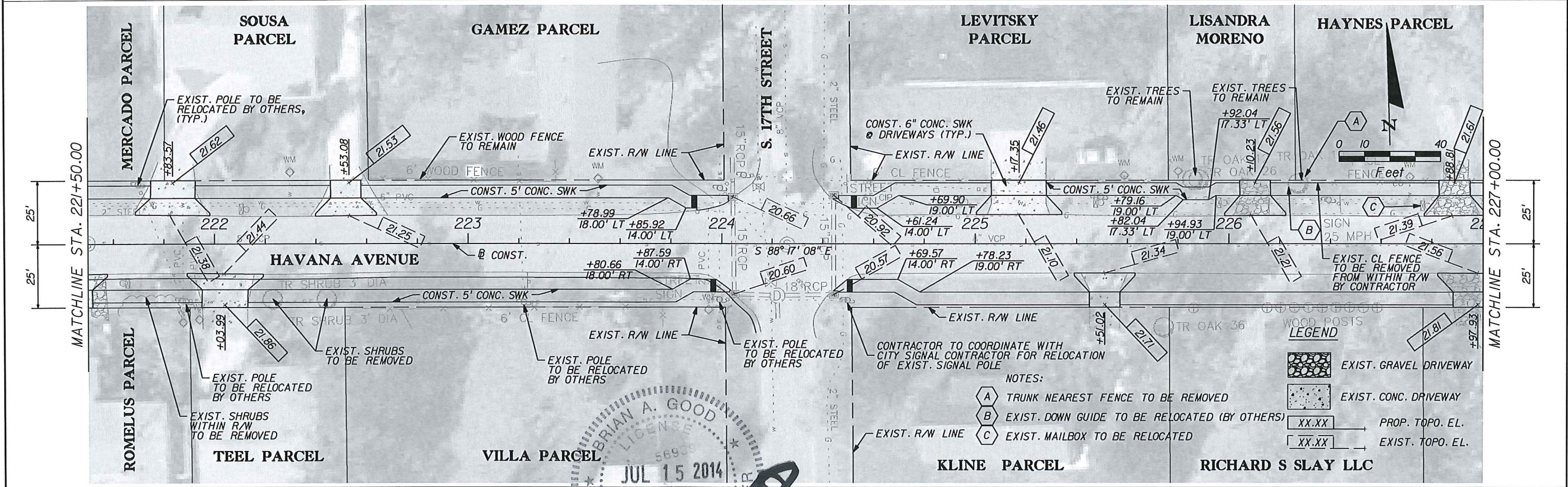
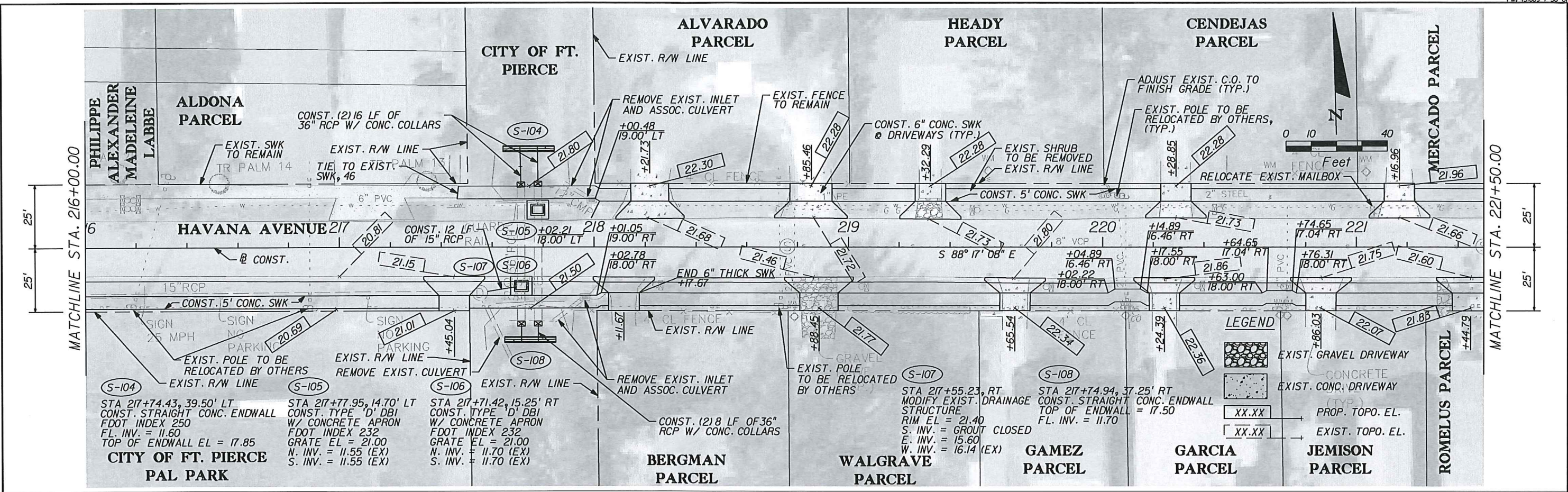
REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

**Kimley-Horn and Associates, Inc.**  
 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**  
**S. 21ST STREET/ HAVANA AVENUE**  
**SIDEWALK PROJECT**

**PLAN SHEET 3**

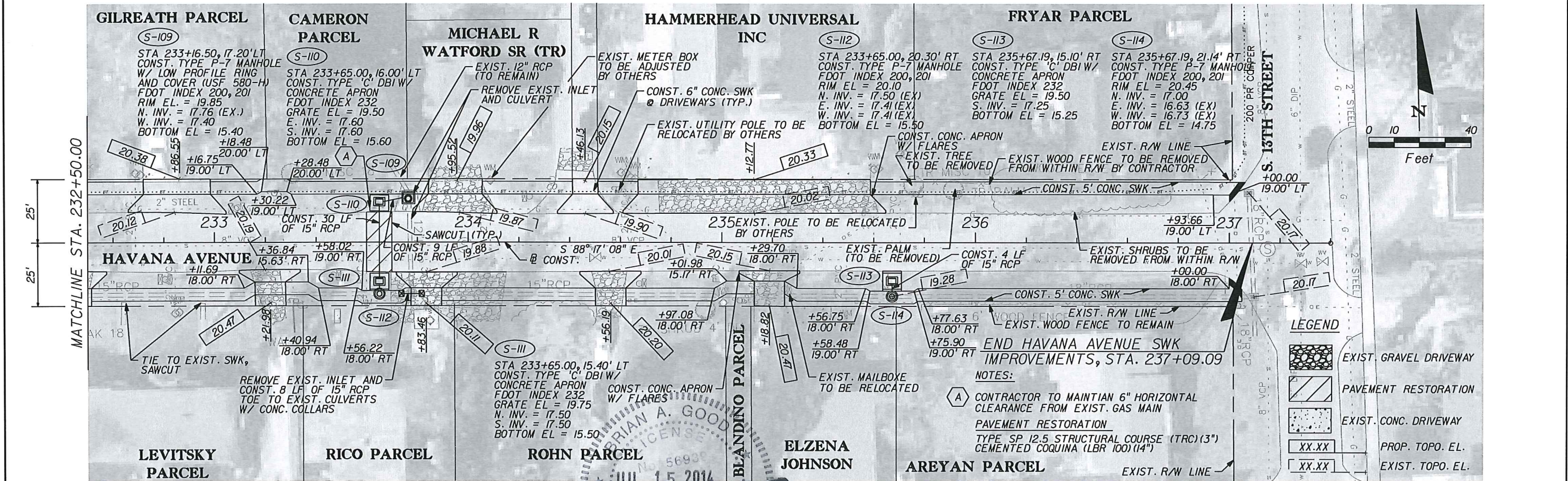
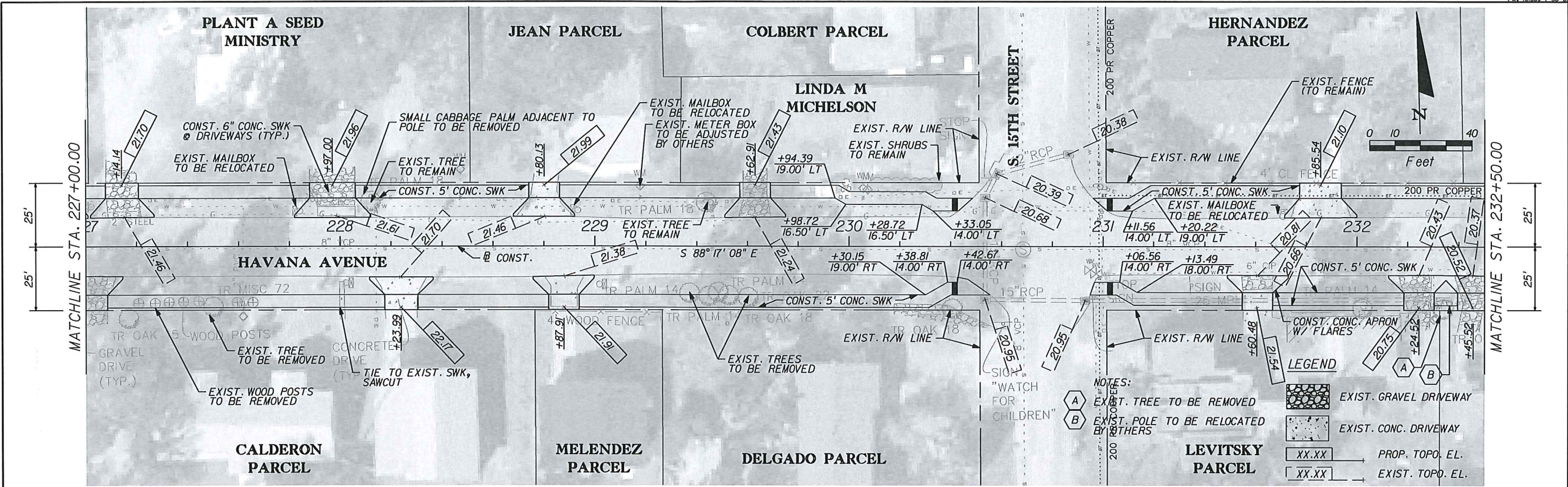
SHEET NO.  
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REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

**CITY OF FORT PIERCE**  
**S. 21ST STREET/ HAVANA AVENUE**  
**SIDEWALK PROJECT**

**PLAN SHEET 4**  
 SHEET NO. 9



REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

Kimley-Horn  
and Associates, Inc.

BRIAN A. GOOD, P.E.  
P.E. LICENSE NUMBER 56939  
445 24th STREET, SUITE 200  
VERO BEACH, FL 32960  
(772) 784-7400  
CERTIFICATE OF AUTHORIZATION: 00000696

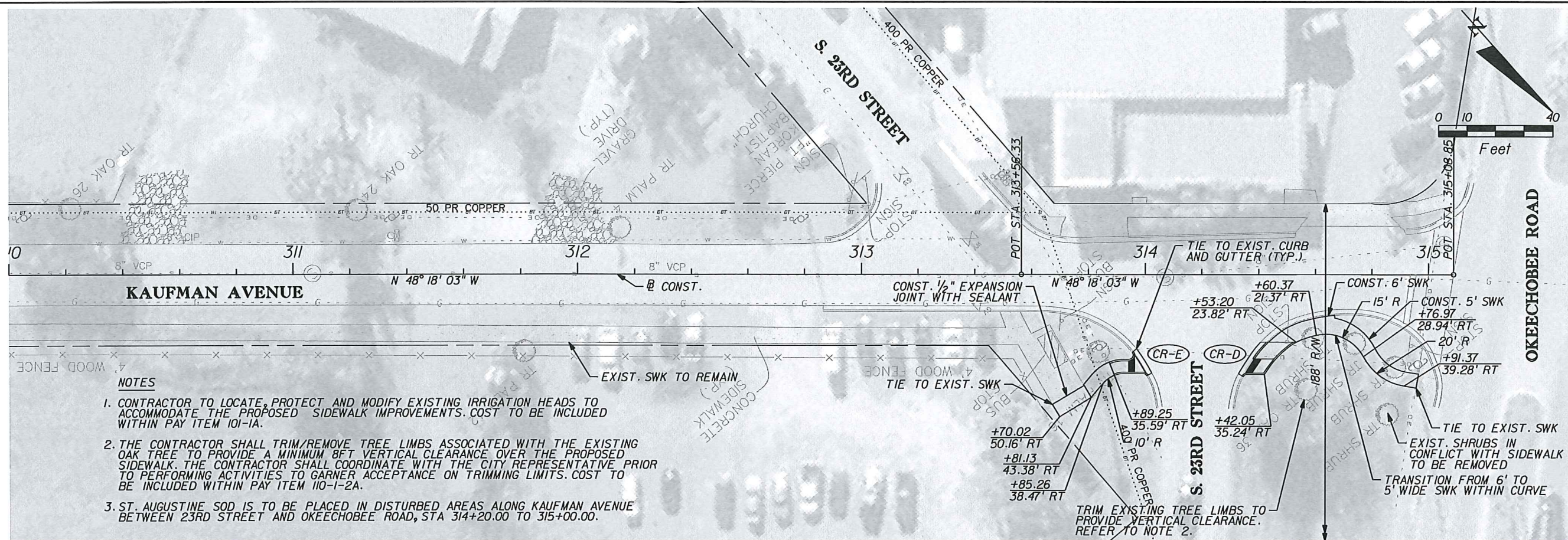
**CITY OF FORT PIERCE**

**S. 21ST STREET/ HAVANA AVENUE**

**SIDEWALK PROJECT**

**PLAN SHEET 5**

SHEET NO. 10



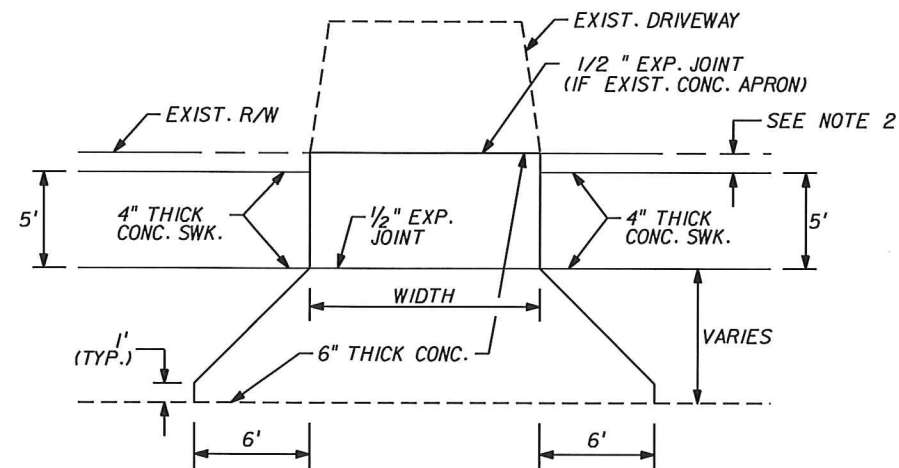
BRIAN A. GOOD, P.E.  
 P.E. LICENSE NUMBER 56930  
 445 24th STREET, SUITE 200  
 VERO BEACH, FL 32909  
 (772) 794-4100  
 CERTIFICATE OF AUTHORIZATION 00000896

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

Kimley-Horn  
 and Associates, Inc.

**CITY OF FORT PIERCE**  
**S. 21ST STREET/ HAVANA AVENUE**  
**SIDEWALK PROJECT**

**PLAN SHEET 6**  
 SHEET NO.  
 11



SUMMARY OF FENCE REMOVAL		
STREET NAME	SIDE	FENCE MATERIAL
STATION RANGE		
HAVANA AVENUE		
226+24.96 - 227+00.00	LT	CHAIN LINK
235+75.93 - 236+06.82	LT	WOOD

URBAN FLARED TURNOUT - PLAN

N.T.S.

NOTE

- REFER TO SUMMARY OF TURNOUT TABLE FOR INFORMATION RELATIVE TO DRIVEWAY LOCATION, DRIVEWAY WIDTH AND QUANTITY OF 6" CONC.
  - DISTANCE FROM R/W IS EITHER 1 OR 2 FEET. SEE STATION RANGES FOR DISTANCE.
- 1' OFFSET FROM RIGHT OF WAY BETWEEN STATIONS:  
 STA. 110+24.00 TO 115+21.38  
 STA. 225+21.46 TO 229+21.43  
 STA. 231+85.54 LT TO 234+46.13 LT
- 2' OFFSET FROM RIGHT OF WAY BETWEEN STATIONS:  
 STA. 218+11.67 TO 224+53.08  
 STA. 231+60.48 RT TO 237+18.82 RT



REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

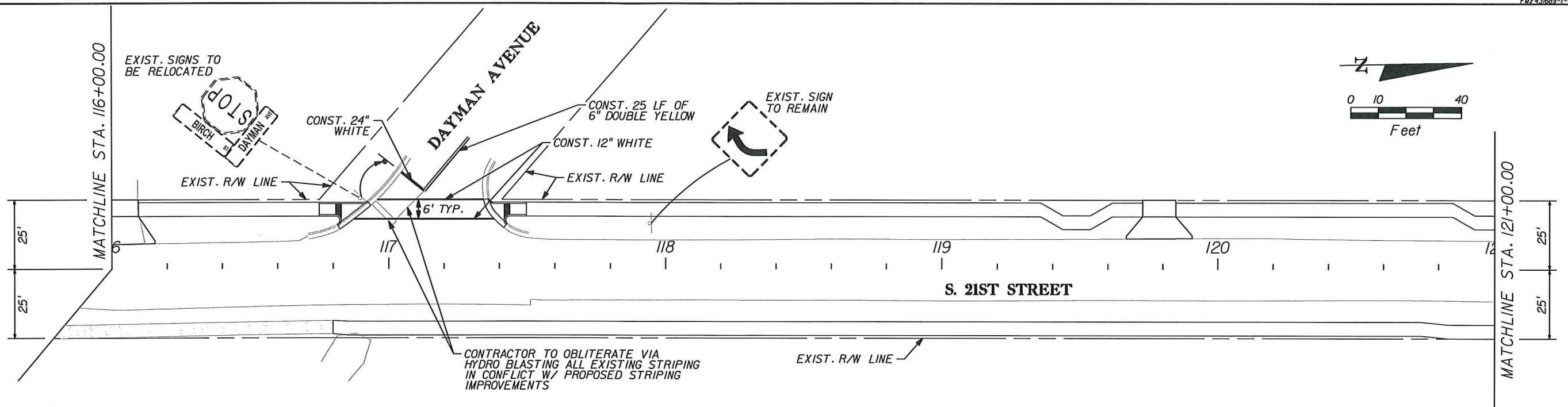
Kimley-Horn and Associates, Inc.  
 BRIAN A. GOOD, P.E.  
 P.E. LICENSE NUMBER 56939  
 445 24th STREET SUITE 200  
 VERO BEACH, FL 32909  
 (772) 794-4000  
 CERTIFICATE OF AUTHORIZATION: 00000696

CITY OF FORT PIERCE  
 S. 21ST STREET/ HAVANA AVENUE  
 SIDEWALK PROJECT

MISCELLANEOUS DETAIL SHEET

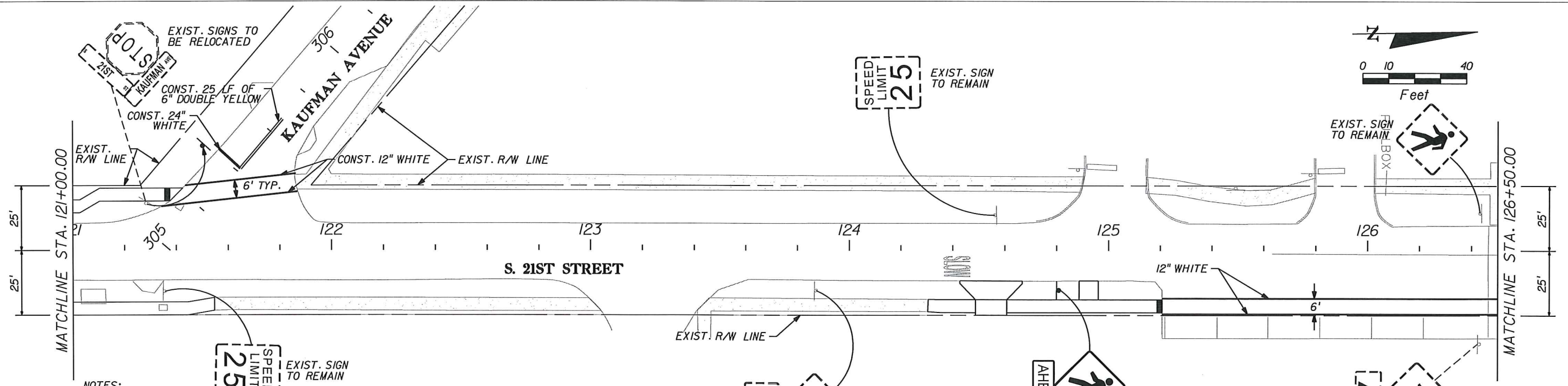
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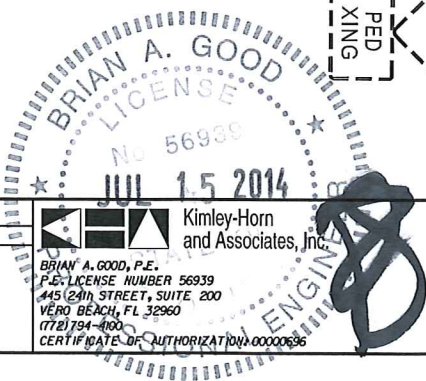
**NOTES:**

1. ALL PAVEMENT MARKINGS ARE TO CONSIST OF ALKYD THERMOPLASTIC.
2. RPM'S SHALL BE POSITIONED ACCORDING TO FDOT INDEX 17352 AND PLAN DETAILS.
3. CONTRACTOR SHALL PROVIDE SHOP DRAWINGS FOR ALL D3-1 STREET NAME SIGNS.
4. ALL D3-1 SIGNS SHALL INCLUDE THE CITY OF FORT PIERCE LOGO.



**NOTES:**

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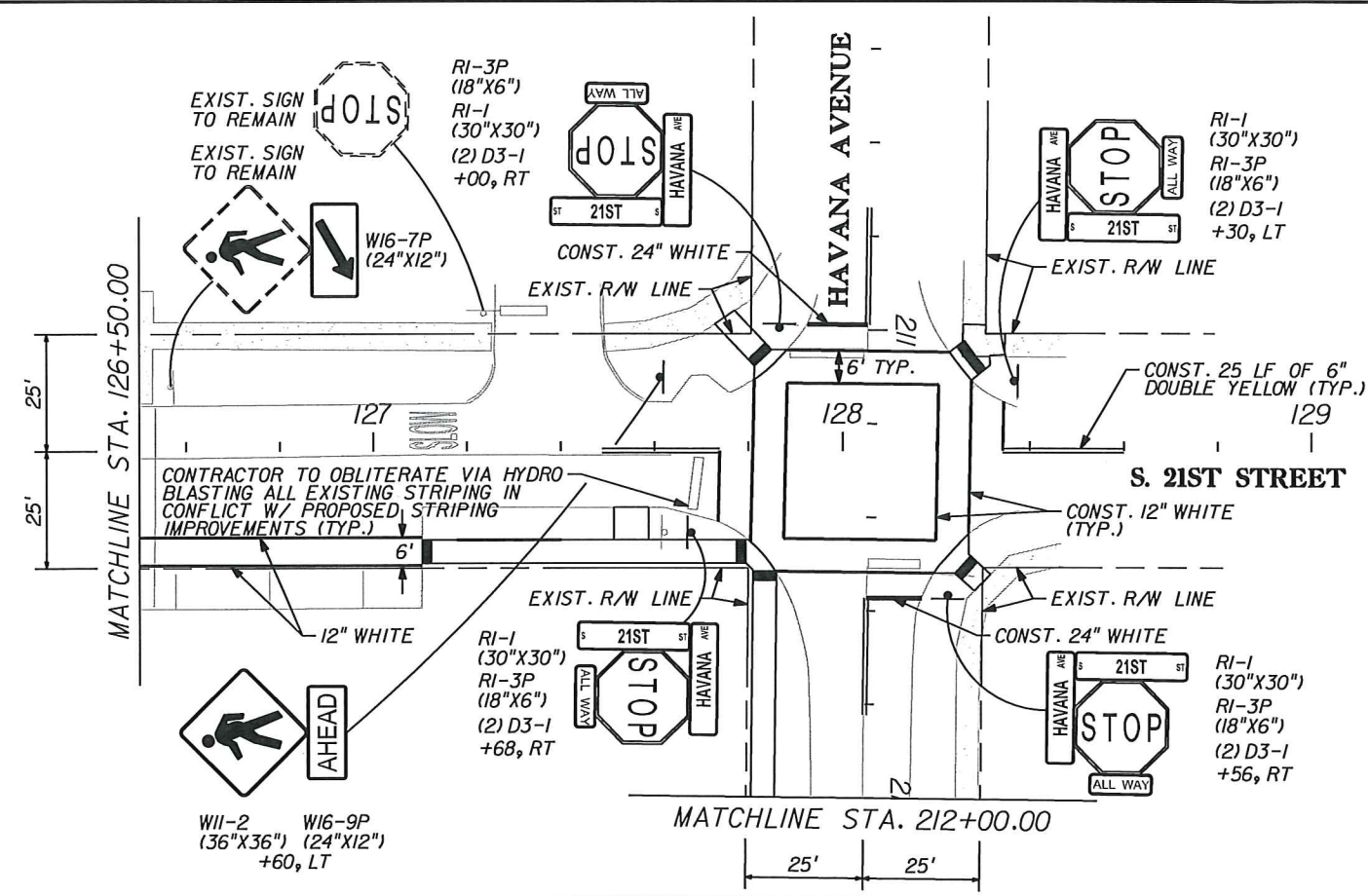
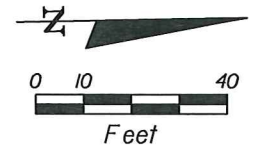
REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

Kimley-Horn and Associates, Inc.  
 BRIAN A. GOOD, P.E.  
 P.E. LICENSE NUMBER 56939  
 1415 21st STREET, SUITE 200  
 VERO BEACH, FL 32960  
 (772) 794-4000  
 CERTIFICATE OF AUTHORIZATION 00000636

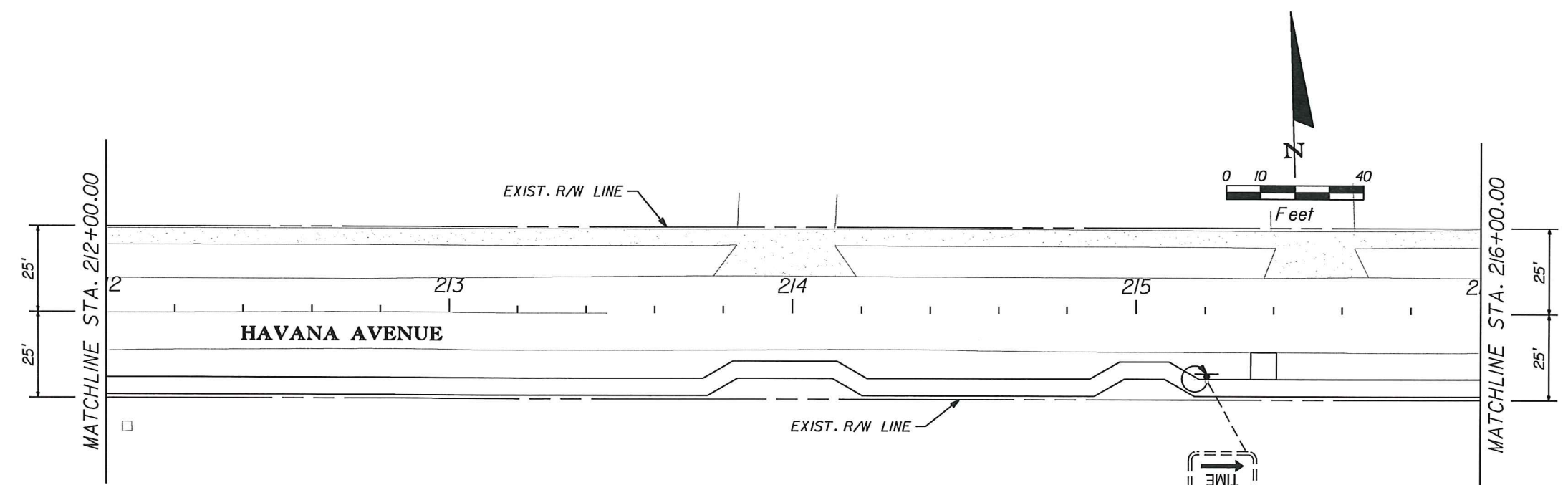
**CITY OF FORT PIERCE**  
**S. 21ST STREET/ HAVANA AVENUE**  
**SIDEWALK PROJECT**

**SIGNING AND MARKING**  
**SHEET 2**

SHEET NO.  
 14



- NOTES:**
1. ALL PAVEMENT MARKINGS ARE TO CONSIST OF ALKYD THERMOPLASTIC.
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- NOTES:**
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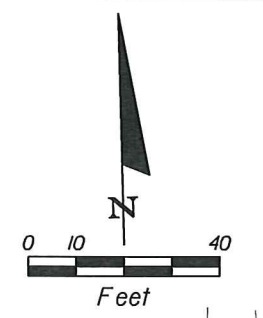
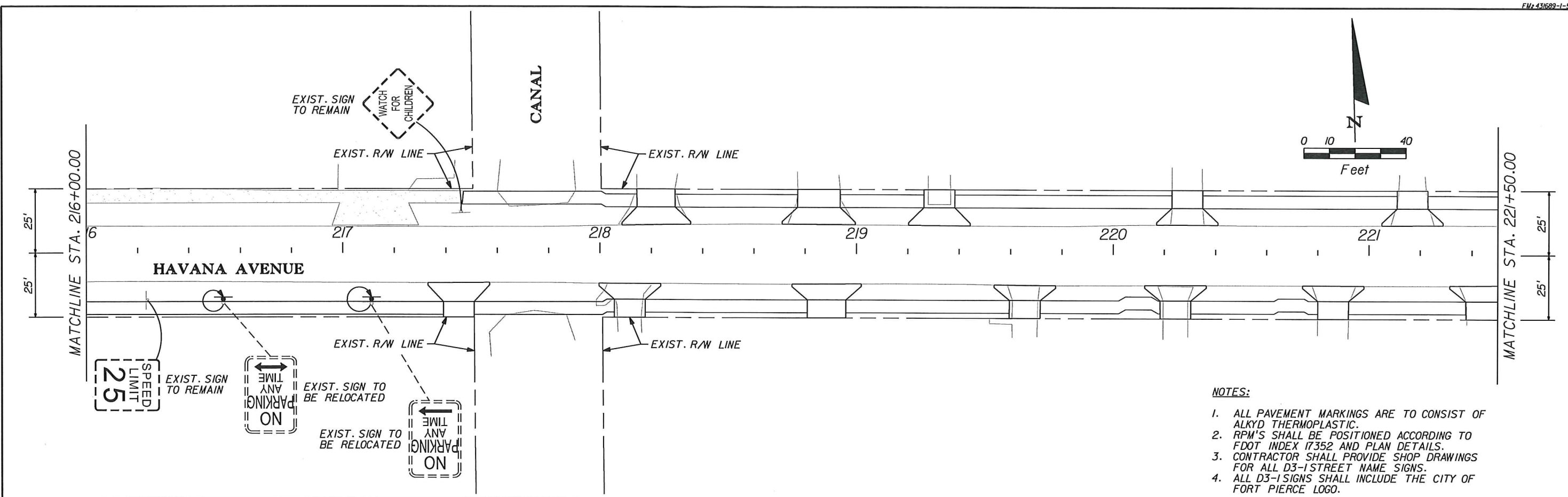
REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

**Kimley-Horn and Associates, Inc.**  
 BRIAN A. GOOD, P.E.  
 P.E. LICENSE NUMBER 56939  
 415-2311 STREET, SUITE 200  
 VERO BEACH, FL 32960  
 (772) 794-4100  
 CERTIFICATE OF AUTHORIZATION: 00000696

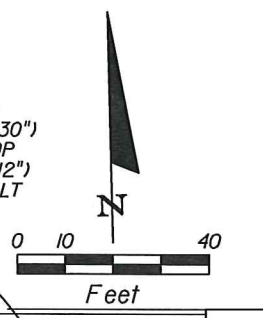
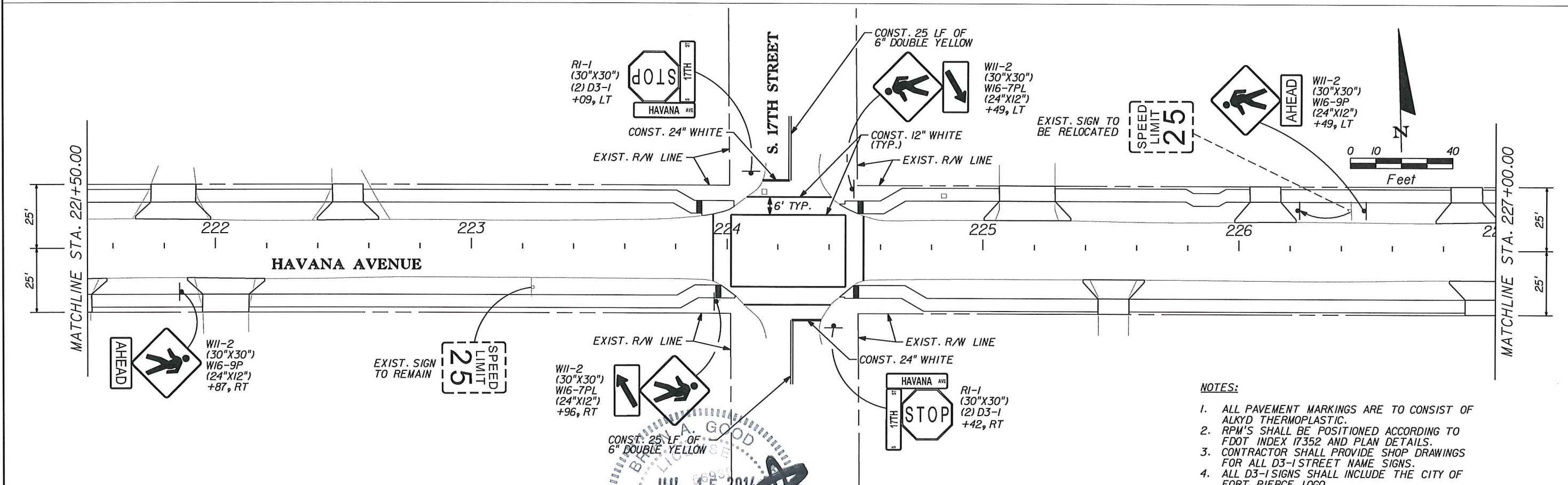
**CITY OF FORT PIERCE**  
**S. 21ST STREET/ HAVANA AVENUE**  
**SIDEWALK PROJECT**

**SIGNING & MARKING**  
**SHEET 3**

SHEET NO.  
 15



- NOTES:**
1. ALL PAVEMENT MARKINGS ARE TO CONSIST OF ALKYD THERMOPLASTIC.
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  3. CONTRACTOR SHALL PROVIDE SHOP DRAWINGS FOR ALL D3-1 STREET NAME SIGNS.
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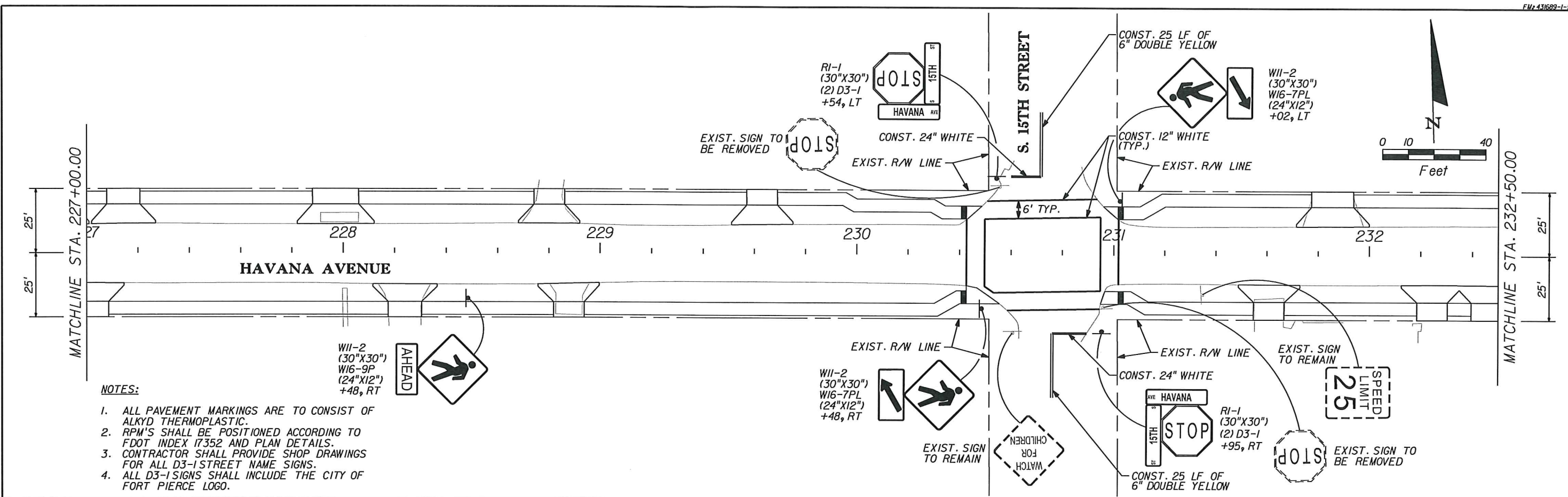
REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

Kimley-Horn and Associates, Inc.

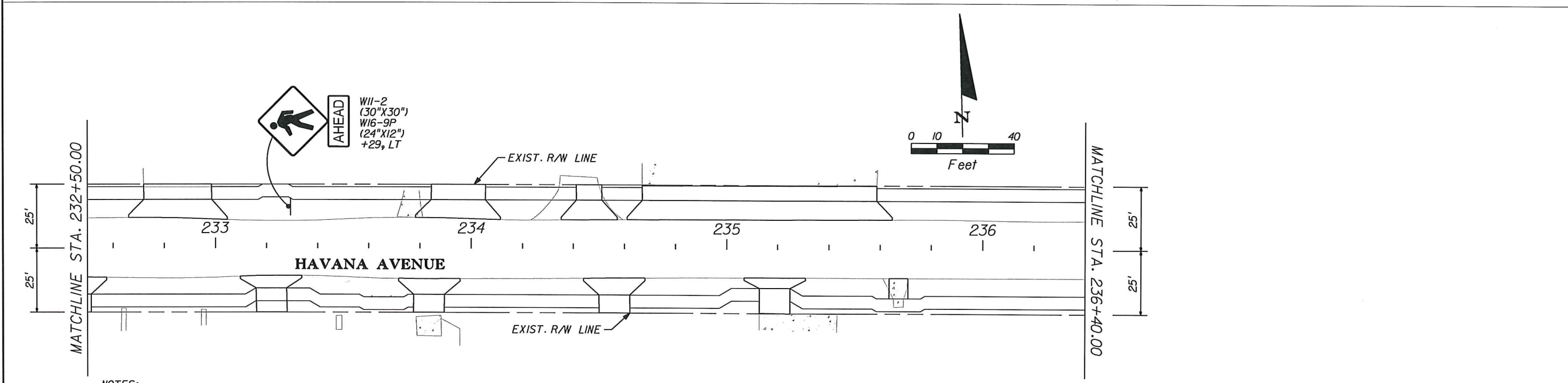
**CITY OF FORT PIERCE**  
**S. 21ST STREET/ HAVANA AVENUE**  
**SIDWALK PROJECT**

**SIGNING & MARKING**  
**SHEET 4**

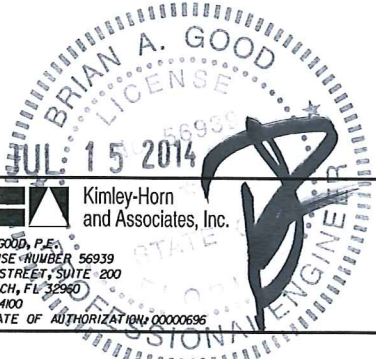
SHEET NO.  
 16



- NOTES:**
1. ALL PAVEMENT MARKINGS ARE TO CONSIST OF ALKYD THERMOPLASTIC.
  2. RPM'S SHALL BE POSITIONED ACCORDING TO FDOT INDEX 17352 AND PLAN DETAILS.
  3. CONTRACTOR SHALL PROVIDE SHOP DRAWINGS FOR ALL D3-1 STREET NAME SIGNS.
  4. ALL D3-1 SIGNS SHALL INCLUDE THE CITY OF FORT PIERCE LOGO.



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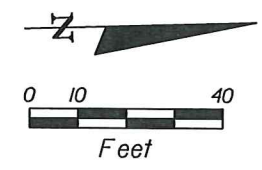
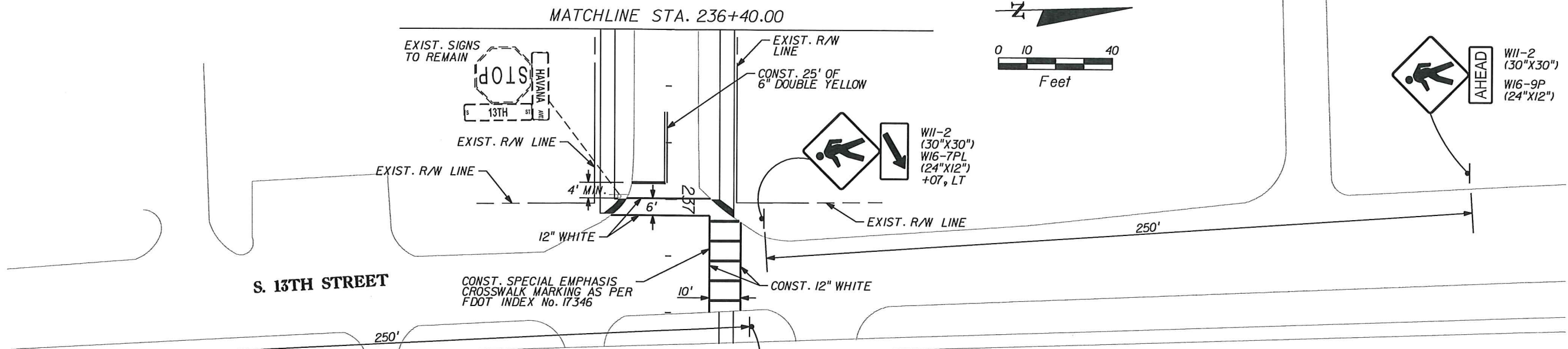
REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

**Kimley-Horn and Associates, Inc.**  
 BRIAN A. GOOD, P.E.  
 P.E. LICENSE NUMBER 56999  
 445 24th STREET, SUITE 200  
 VERO BEACH, FL 32960  
 (772) 794-4100  
 CERTIFICATE OF AUTHORIZATION 00000696

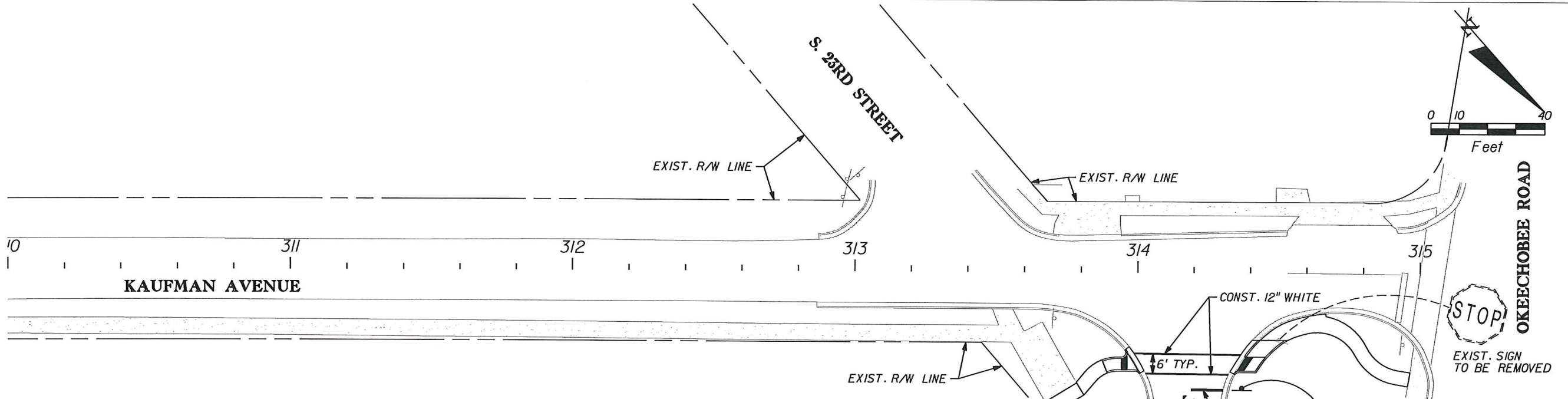
**CITY OF FORT PIERCE**  
**S. 21ST STREET/ HAVANA AVENUE**  
**SIDEWALK PROJECT**

**SIGNING & MARKING**  
**SHEET 5**

SHEET NO.  
 17



- NOTES:**
1. ALL PAVEMENT MARKINGS ARE TO CONSIST OF ALKYD THERMOPLASTIC.
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  3. CONTRACTOR SHALL PROVIDE SHOP DRAWINGS FOR ALL D3-1 STREET NAME SIGNS.
  4. ALL D3-1 SIGNS SHALL INCLUDE THE CITY OF FORT PIERCE LOGO.
  5. ALL PROPOSED SIGNS TO BE INSTALLED WITHIN R/W.



- NOTES:**
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REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

Kimley-Horn and Associates, Inc.  
 BRIAN A. GOOD, P.E.  
 P.E. LICENSE NUMBER 56939  
 445 24th STREET, SUITE 200  
 VERO BEACH, FL 32960  
 (772) 794-4100  
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**CITY OF FORT PIERCE**  
**S. 21ST STREET/ HAVANA AVENUE**  
**SIDEWALK PROJECT**

**SIGNING & MARKING**  
**SHEET 6**

SHEET NO.  
 18