INTERLOCAL AGREEMENT
NW DIXIE HIGHWAY SIDEWALK EXTENSION
(NW WRIGHT BLVD TO NE DIXIE HWY)
FDOT FM# 440020-1-58-01

This INTERLOCAL AGREEMENT (Agreement), dated _____, 2019, is made by and between MARTIN COUNTY, Florida, a political subdivision of the State of Florida, 2401 S.E. Monterey Road, Stuart, FL 34996 (the COUNTY) and the CITY OF STUART, a municipal corporation of the State of Florida, 121 S.W. Flagler Avenue, Stuart, Florida 34994 (the CITY).

WITNESSETH:

WHEREAS, Section 163.01 Fla. Stat., known as the Florida Inter-Local Cooporation Act of 1969, provides a method for governmental entities to cooperate with each other on a basis of mutual advantage to provide services and facilities in a manner that will accord best with the factors influencing the needs and development of local communities; and

WHEREAS, the COUNTY, on behalf of the CITY, has been approved for Florida Department of Transportation (FDOT) Transportation Alternatives Program (TAP) funding for a project located within the CITY in the amount of $320,679.00 for sidewalk construction on NW Dixie Highway (from approximately 200' north of NW Wright Boulevard to NE Dixie Highway at NW Green River Parkway) (PROJECT); and

WHEREAS, the CITY has agreed to be solely responsible for all grant administration and PROJECT construction costs and expenses, including but not limited to, maintenance of the PROJECT; and

WHEREAS, in accordance with all applicable Federal, State and County requirements, the COUNTY will obtain bids, utilizing a unit price and quantity bid document and Contract for the goods and services required for the construction of the PROJECT, the County will also select and contract for Construction Engineering and Inspection (CEI) for the PROJECT; and

WHEREAS, the COUNTY and CITY have agreed to cooperate in the implementation of the PROJECT whereby the COUNTY, utilizes its Local Agency Program (LAP) certification and eligibility to participate in the FDOT's Local Agency Program grant program on the CITY's behalf; and

WHEREAS, the CITY has retained the services of Bowman Consulting Group, Ltd., (Design Engineer) for the design of the PROJECT.

NOW THEREFORE, in consideration of the mutual benefits, the parties do hereby agree as follows:

1. The PROJECT shall be implemented in accordance with the plans to be developed by the Design Engineer in accordance with all grant requirements which will be submitted for County

Staff review and then, following County Staff approval, will be made a part hereof as Exhibit "A" to this Agreement.

2. The COUNTY will advertise bids, utilizing a unit price and quantity bid document, for the goods and services required for the construction of the PROJECT and will award a CONTRACT to the lowest responsible, responsive bidder in accordance with all applicable Federal, State and County procurement laws and regulations.

3. The COUNTY will, in accordance with Section 287.055, Fla. Stat., Consultant's Competitive Negotiations Act (CCNA), as well as County policies, solicit Requests for Qualifications for Construction Engineering and Inspection (CEI) services which are required for contract administration, inspection, and materials sampling and testing for the PROJECT. The CITY will provide one representative for the COUNTY's CCNA compliant selection committee.

4. The CITY acknowledges and agrees that it will be solely liable to the COUNTY for all costs associated with the PROJECT. The PROJECT costs are estimated at four hundred four thousand, fifteen dollars ($404,015.00). Prior to the County's issuance of a Notice to Proceed to the Contractor, the CITY agrees to provide: 1) the total Bid Award, including a fifteen percent (15%) contingency amount, 2) the full negotiated contract amount for CEI services, and 3) twenty thousand, seven hundred seventy-five dollars ($20,775.00) non-refundable Contract Administration Fee outlined in Exhibit "B" to this Agreement. COUNTY agrees to place funds designated for outside contract payments in a separate account from which invoices for the PROJECT shall be paid.

5. The COUNTY shall promptly review, and provide the CITY a copy for timely review and approval, any and all Contractor's invoices submitted in connection with the PROJECT and either approve or disapprove in accordance with the Local Government Prompt Payment Act §218.70 et. seq Fla. Stat., allowing for ten (10) business days after such approval or disapproval for the COUNTY to issue or object to payments as appropriate. Upon approval of the invoices by both parties, the COUNTY will issue payment to the Contractor.

6. Any construction change orders requested by the CITY to the PROJECT shall be made in writing to the COUNTY and if approved, the COUNTY shall issue such change order to the Contractor. The CITY agrees to be responsible for the cost of any such change order. If the COUNTY does not approve a CITY requested change order, the parties agree to comply with the dispute resolution procedure outlined in Paragraph 9 herein. The parties agree that all change orders requested by Contractor, shall be submitted to the COUNTY by the Contractor. The COUNTY and the CITY shall promptly review such change order request and if approved, the COUNTY shall issue such change order to the Contractor. The CITY agrees to be responsible for the total cost of any such change order. Within 15 days of issuance of a change order which exceeds the 15% contingency originally provided to the COUNTY, the CITY shall provide a check in the amount of the change order to the COUNTY.

7. Upon completion of the PROJECT, the CITY shall determine whether the PROJECT was constructed in accordance with the design and regulatory approval requirements and provide its determination to the COUNTY in writing and if approved, such approval shall construe

acceptance by the CITY of the PROJECT. If the CITY identifies any deficiencies with the construction, the CITY shall notify the COUNTY and the COUNTY shall require the Contractor to remedy the deficiency.

7. The COUNTY shall file on the CITY's behalf any reimbursement authorized by FDOT and the COUNTY under the terms of the LAP Grant Agreement FM# 440020-1-58-01. Upon final reimbursement from FDOT, the COUNTY shall remit to the CITY the total grant reimbursement received from FDOT plus any unused outside Contractor funds paid by the CITY to the COUNTY less the non-refundable Contract Administration Fee. The CITY acknowledges that FDOT's performance and obligation to pay reimbursement under the Grant Agreement is contingent upon an annual appropriation by the Legislature. The COUNTY agrees to promptly notify the CITY of any notice received by the COUNTY from FDOT regarding a change in funding and the CITY will promptly notify the COUNTY whether it will proceed with or terminate the PROJECT.

8. Upon acceptance by the CITY, the CITY shall be solely responsible for maintenance, replacement, and repair of the PROJECT (including, but not limited to, all landscaping, irrigation, signage, fencing, guardrail and handrail) and that COUNTY shall have no responsibility for maintenance, replacement, and repair of the PROJECT. The CITY shall continue to maintain the standard elements of the roadway (pavement, curb, drainage, and sidewalks). The CITY agrees that such maintenance shall be in accordance with Section 116, Title 23 U.S.C. and shall be performed for the useful life of the improvements.

9. Disputes under this Agreement may be resolved by the COUNTY's Authorized Representatives and the CITY's Authorized Representatives. If such Authorized Representatives are unable to reach a resolution and the parties agree that the issue is of sufficient merit, the parties may select a mediator certified by the Supreme Court of Florida and practicing in Indian River, St. Lucie, Martin or Palm Beach County and is mutually acceptable to both parties to conduct a mediation of the issues involved and make a recommendation to both parties. The parties agree to be responsible for their respective costs and fees incurred during the mediation and that the mediator's fees and costs shall be paid in equal amounts by each party.

10. The COUNTY and the CITY agree to hold project meetings on a weekly basis with the Contractor. The CITY's costs to attend required meetings are the responsibility of the CITY.

11. This Agreement may be amended only by written agreement of the parties. A party requesting amendment of the Agreement must propose such amendment in writing to the other party at least ninety-days (90) prior to the proposed effective date of the amendment.

12. This Agreement shall become effective upon execution by both parties and filing with the Clerk of the Circuit Court for Martin County.

13. This Agreement incorporates and includes all prior and contemporaneous negotiations, correspondence, conversations, agreements, and understandings applicable to the matters contained herein and the parties agree that there are no commitments, agreements, or understandings concerning the subject matter of this Agreement that are not contained in this

document. Accordingly, it is agreed that no deviation from the terms hereof shall be predicated upon any prior contemporaneous representatives or agreements, whether oral or written.

14. If any term or provision of this Agreement or the application thereof to any person or circumstance shall, to any extent be held invalid or unenforceable for the remainder of this Agreement, then the application of such term or provision to person or circumstances other than those as to which it is held invalid or unenforceable shall not be affected, and every other term and provision of this Agreement shall be deemed valid and enforceable to the extent permitted by law.

15. Any notice, request, demand, consent approval or other communication required or permitted by this Agreement shall be given or made in writing and shall be served (as elected by the party giving such notice) by one of the following methods: (i) hand delivery to the other party; (ii) delivery by commercial overnight courier service; or (iii) mailed by registered or certified mail (postage prepaid), return receipt requested. For purposes of notice the addresses are:

COUNTY

County Administrator
Martin County Board of County Commissioners
2401 Monterey Road
Stuart, FL 34996

Required Copy to:

County Attorney
Martin County Board of County Commissioners
2401 SE Monterey Road
Stuart, FL 34996

CITY:

City Manager
City of Stuart
121 SW Flagler Avenue
Stuart, FL 34994

Required Copy to:

City Attorney
City of Stuart
121 SW Flagler Avenue
Stuart, FL 34994

Notice given in accordance with the provision of this Paragraph shall be deemed to be delivered and effective on the date of hand delivery or on the second day after the date of the deposit with an overnight courier or on the date upon which the return receipt is signed or delivery is refused or the notice is designated by the postal authorities as not delivered if mailed.

16. The Project Manager for the CITY of Stuart is Timothy Voelker, PE, City Engineer, 121 SW Flagler Avenue, Stuart, FL 34994, telephone number (772) 288-1292. The Project Manager for the COUNTY is George Dzama, P.E., Public Works Department, 2401 SE Monterey Road, Stuart, FL 34996, telephone number (772) 463-2837.

17. Unless otherwise terminated as provided herein, this Agreement shall continue in perpetuity unless terminated upon the mutual agreement of the parties.

18. This Agreement shall be governed by and construed in accordance with the laws of the State of Florida and shall be binding upon and benefit the successors of the parties hereto.

19 This Agreement may be simultaneously executed in several counterparts, each of which shall be an original and all of which shall constitute but one and the same instrument.

20. This Agreement may not be assigned, in whole or in part, by any party at any time.

21. The failure of either party to insist upon the other party's compliance with its obligations under this Agreement in any one or more instances shall not operate to release such other party from its duties to comply with such obligations in all other instances.

22. Neither the COUNTY nor the CITY, nor any agent, officer, official or employee of the COUNTY or the CITY shall be liable for any action taken pursuant to this Agreement in good faith or for any omission, except gross negligence, or for any act or omission or commission by the other party hereto and its agents, officers, officials or employees. To the extent provided by law, the CITY shall indemnify, defend, and hold harmless the State of Florida, Department of Transportation, including the Department's officers, agents, and employees, against any actions, claims, or damages arising out of, relating to, or resulting from negligent or wrongful act(s) of the CITY, or any of its officers, agents, or employees, acting within the scope of their office or employment, or in connection with the rights granted to or exercised by the CITY hereunder, to the extent and within the limitations of Section 768.28, Florida Statutes. The foregoing indemnification shall not constitute a waiver of sovereign immunity beyond the limits set forth in Florida Statutes, Section 768.28. Nor shall the same be construed to constitute agreement by the CITY to indemnify the Department for the negligent acts or omissions of the Department, its officers, agents, or employees, or third parties. The terms of this Paragraph 22 shall survive termination or expiration of this Agreement.

IN WITNESS WHEREOF, the parties hereto have caused these presents to be executed the day, month and year aforesaid.

ATTEST:

BOARD OF COUNTY COMMISSIONERS
MARTIN COUNTY, FLORIDA

_____

CAROLYN TIMMANN
CLERK OF THE CIRCUIT COURT
AND COMPTROLLER

_____

EDWARD V. CIAMPI
CHAIRMAN

APPROVED AS TO FORM AND
LEGAL SUFFICIENCY

_____

KRISTA A. STOREY
ACTING COUNTY ATTORNEY

ATTEST:

CITY OF STUART, FLORIDA

_____

MARY KINDEL
CITY CLERK

_____

BECKY BRUNER
MAYOR

APPROVED AS TO FORM AND
LEGAL SUFFICIENCY

_____

MICHAEL J. MORTELL
CITY ATTORNEY

EXHIBIT A

APPROVED CONSTRUCTION PLANS

STATE OF FLORIDA

CITY OF STUART

CONSTRUCTION PLANS FOR PROPOSED

NW DIXIE HIGHWAY SIDEWALK EXTENSION

SECTIONS 29 & 32, TOWNSHIP 37 SOUTH, RANGE 41 EAST

MARTIN COUNTY, FLORIDA

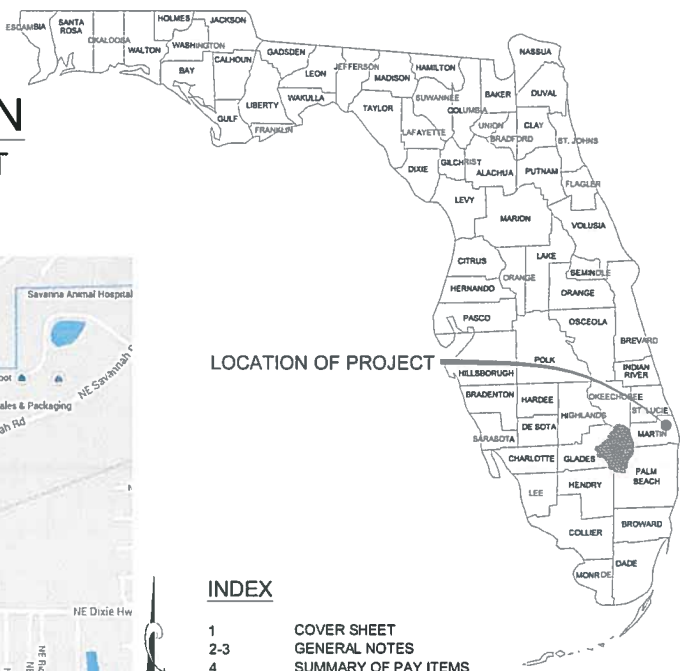
FINANCIAL PROJECT ID # 440020-1-58-01



LOCATION MAP

N.T.S.

ALL ELEVATIONS SHOWN HEREIN REFER TO NAVD 88 DATUM



INDEX

1	COVER SHEET
2-3	GENERAL NOTES
4	SUMMARY OF PAY ITEMS
5	PROJECT LAYOUT (KEY SHEET)
6	TYPICAL SECTIONS AND DETAILS
7	EROSION AND SEDIMENT CONTROL PLAN
8	EROSION AND SEDIMENT CONTROL DETAILS
9-14	CONSTRUCTION PLANS
15-24	CROSS SECTIONS
25-28	TRAFFIC CONTROL PLAN - DETAILS

LENGTH OF PROJECT		
	LINEAR FEET	MILES
SIDEWALK	1285	0.24
BRIDGES	0	0
GROSS LENGTH OF PROJECT	1438	0.27
EXCEPTIONS	153	0.03
NET LENGTH OF PROJECT	1285	0.24

NOTES:

1. THE SCALE OF THESE DRAWINGS MAY HAVE CHANGED DUE TO REPRODUCTION.
2. THE CONTRACTOR IS TO PROTECT AND PRESERVE EXISTING POWER POLES, ETC. UNLESS OTHERWISE NOTED.
3. THIS DOCUMENT MAY BE REPRODUCED UPON REQUEST IN AN ALTERNATIVE FORMAT BY CONTACTING THE COUNTY ADA COORDINATOR (772) 320-3131, THE COUNTY ADMINISTRATION OFFICE (772) 288-5400, FLORIDA RELAY 711, OR BY COMPLETING OUR ACCESSIBILITY FEEDBACK FORM AT WWW.MARTIN.FL.US/ACCESSIBILITY-FEEDBACK.

UTILITY OWNERS

TELECOMMUNICATIONS:
COMCAST
TONY SPRINGSTEEL
(561) 804-0973

AT&T / DISTRIBUTION
DINO FARRUGGIO
(561) 997-0240

GAS:
CITY GAS OF FLORIDA
RON MULLER
(321) 638-3424

ELECTRIC:
FLORIDA POWER & LIGHT
JOEL BRAY
(386) 586-6403

MARTIN COUNTY:
MARTIN COUNTY PUBLIC WORKS DEPARTMENT
2401 SE MONTEREY ROAD
STUART, FL 34996
(772) 288-5400

CITY OF STUART:
PUBLIC WORKS DEPARTMENT
TIM VOELKER, P.E.
(772) 288-5332

CONSULTANTS

CIVIL ENGINEER:
BOWMAN CONSULTING GROUP, LTD.
301 SE OCEAN BOULEVARD, SUITE 301
STUART, FL 34994
(772) 283-1413
LISA LEONARD, P.E.

SURVEYOR:
BOWMAN CONSULTING GROUP, LTD.
301 SE OCEAN BOULEVARD, SUITE 301
STUART, FL 34994
(772) 283-1413

ENVIRONMENTAL CONSULTANT:
HOBE SOUND ENVIRONMENTAL CONSULTANTS, INC.
9512 SE DUNCAN STREET
HOBE SOUND, FL 33455
(772) 545-3676

FLORIDA ARCHEOLOGICAL SERVICES, INC.
4520 MELROSE AVE
JACKSONVILLE, FL 32210
(904) 389-1976

811 KNOW WHAT'S BELOW ALWAYS CALL 811 BEFORE YOU DIG

DATE	BY	REVISIONS

FINAL DESIGN
(FOR CONSTRUCTION)

FLORIDA DEPARTMENT OF TRANSPORTATION - STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, 2018, AS AMENDED BY CONTRACT DOCUMENTS. DESIGN STANDARDS FOR DESIGN, CONSTRUCTION, MAINTENANCE, AND UTILITY OPERATIONS ON THE STATE HIGHWAY SYSTEM, 2018.

Bowman Consulting Group, Ltd.
301 Ocean Blvd. Suite 301
Stuart, FL 34994
Phone: (772) 283-1413
www.bowmanconsulting.com ©
Bowman Consulting Group, Ltd.

LISA B. LEONARD, P.E. LICENSE No. 61737 STATE OF FLORIDA PROFESSIONAL ENGINEER

Lisa Leonard, P.E.
FL License No. 61737

Bowman CONSULTING
Certificate of Authorization License No. 30462

CHECKED BY: LL	DRAWN BY: JMB	C.E.I. PROJECT No: 010391-01-002	PRINTED: 04-24-20

J:\010391 – COS Dixie Highway Sidewalk\010391-01-002 (ENG) – COS Dixie Highway Sidewalk\Engineering\Engineering Plans\Dixie Hwy 1 5.dwg, 1 KEY SHEET, vleola, Apr 24,2019 - 9:50am

GENERAL NOTES

1. ANY DRAWING DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER/ENGINEER BEFORE COMMENCING WORK.

2. NO FIELD CHANGES OR DEVIATIONS FROM THE DESIGN ARE TO BE MADE WITHOUT PRIOR WRITTEN APPROVAL OF THE OWNER/ENGINEER.

3. ALL WORK, WORKMANSHIP, AND MATERIALS SHALL COMPLY WITH THE LATEST EDITION OF THE FOLLOWING STANDARDS AND PUBLICATIONS:
   - AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS (AASHTO)
   - AMERICAN CONCRETE INSTITUTE (ACI)
   - AMERICAN SOCIETY FOR TESTING MATERIAL (ASTM)
   - AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES (ADAAG)
   - FDOT ROADWAY DESIGN STANDARDS
   - FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION
   - FDOT STRUCTURES MANUAL.

4. EXCAVATED MATERIAL SHALL BE USED AS FILL WHEN POSSIBLE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL AND PROPER DISPOSAL OF ALL RUBBLE, DEBRIS AND ANY OTHER UNUSABLE OR UNSUITABLE MATERIAL. THE CONTRACTOR SHALL BE ADVISED THAT THE COUNTY NORMALLY DOES NOT WAIVE TIPPING FEES AT ITS LANDFILL SITES.

5. ELEVATION DATUM IS THE NORTH AMERICAN VERTICAL DATUM (N.A.V.D) OF 1988.

6. ANY SURVEY MONUMENT OR CONTROL POINT WITHIN THE LIMITS OF CONSTRUCTION SHALL BE PROTECTED. IF IN DANGER OF DAMAGE, THE CONTRACTOR SHALL NOTIFY:

   BOWMAN CONSULTING LTD.
   301 SE OCEAN BLVD. SUITE 301
   STUART, FL 34994
   TELEPHONE (772) 283-1413

   AND

   MARTIN COUNTY PROJECT MANAGER
   TELEPHONE (772) 288-5927

7. SHOP DRAWINGS FOR ALL CONSTRUCTION ITEMS SHALL BE SUBMITTED TO THE MARTIN COUNTY PROJECT MANAGER AT (772) 288-5927 FOR REVIEW AND APPROVAL.

8. ROADWAY OPEN CUTS REQUIRE PRIOR APPROVAL FROM MARTIN COUNTY. ROADWAY RESTORATION SHALL BE PERFORMED ACCORDING TO THE REQUIREMENTS OF MARTIN COUNTY AND SHALL REQUIRE FINAL ACCEPTANCE UPON COMPLETION.

9. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING A NPDES PERMIT BEFORE WORK CAN BEGIN. WORK SHALL NOT BEGIN UNTIL ALL APPLICABLE PERMITS HAVE BEEN OBTAINED.

10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ADEQUATE DRAINAGE AND PROPER DUST CONTROL ON THE PROJECT SITE AT ALL TIMES. MARTIN COUNTY MAY REQUIRE THE USE OF NON-POTABLE WATER FOR DUST CONTROL.

11. CONTRACTOR SHALL BE RESPONSIBLE FOR THE IMMEDIATE REMOVAL OF STORM WATER FROM ROADWAYS UTILIZED FOR MAINTAINING TRAFFIC IN A MANNER APPROVED BY THE ENGINEER. COST FOR REMOVING THE WATER SHALL BE INCLUDED IN PAY ITEM 102-1, MAINTENANCE OF TRAFFIC.

12. CONTRACTOR SHALL PROVIDE MARTIN COUNTY WITH TWO HARD COPIES OF SIGNED AND SEALED RECORD DRAWINGS FOLLOWING ACCEPTANCE OF THE CONSTRUCTION. THE SUBMITTAL SHALL ALSO INCLUDE A COMPACT DISC WITH THE CADD AND PDF RECORD DRAWING FILES.

13. CONTRACTOR SHALL COORDINATE WITH THE ENVIRONMENTAL CONSULTANT AND INSTITUTE THE COUNTY'S WILDLIFE PROTECTION PLAN.

14. CONTRACTOR SHALL REMOVE LITTER AND MOW THE AREAS WITHIN THE PROJECT WORK LIMITS AS NEEDED DURING THE PROJECT DURATION.

15. THE CONTRACTOR SHALL COORDINATE SELECTION AND REVIEW OF ANY PROPOSED STAGING OR STOCKPILING AREAS ASSOCIATED WITH THIS PROJECT WITH THE MARTIN COUNTY PROJECT MANAGER AT (772) 288-5927. NO STAGING SHALL TAKE PLACE WITHIN THE EAST HEART OF HANEY CREEK WETLANDS RESTORATION AREA.

16. DURING CONSTRUCTION, EXISTING PEDESTRIAN PATHS ARE TO REMAIN USABLE AND ACCESSIBLE OR ALTERNATE ACCESSIBLE PATHS MUST BE PROVIDED.

17. IN-PLACE SOIL DENSITY TESTING, LABORATORY TESTING OF SOIL AND COMPRESSIVE STRENGTH TESTING OF CONCRETE WILL BE REQUIRED FOR THIS PROJECT. THESE TESTS WILL BE COMPLETED BY AN INDEPENDENT TESTING CONTRACTOR HIRED BY THE CITY OF STUART. THE CONTRACTOR SHALL COORDINATE WITH MARTIN COUNTY AND TESTING COMPANY TO ALLOW THE TESTS TO BE CONDUCTED, AS REQUIRED FOR THIS PROJECT.

18. SIDEWALKS ARE TO BE 4 INCH THICK CONCRETE PER FDOT INDEX 522-001 UNLESS OTHERWISE NOTED.

19. THE SIDEWALK CROSS SLOPE SHALL BE 1.5%.

20. THE SIDEWALK LONGITUDINAL SLOPE SHALL NOT EXCEED 5%.

21. ALL AREAS ADJACENT TO THE PROPOSED SIDEWALK SHALL BE REGRADED AND STABILIZED TO REPAIR ANY EROSION, POTENTIAL DROP OFFS, OR TRIPPING HAZARDS.

22. THE MINIMUM LONGITUDINAL SWALE SLOPE IS 0.2%.

23. ALL WORK MUST BE PERFORMED ENTIRELY WITHIN AND FROM THE RIGHT-OF-WAY OF NW DIXIE HIGHWAY.

24. CONTRACTOR SHALL USE DILIGENT CAUTION TO COMPLETE THE WORK WITHIN THE CITY RIGHT-OF-WAY AND ON CITY OWNED PROPERTY AS DESCRIBED IN THE PLANS. IN NO CASE SHALL THE CONTRACTOR ENCROACH ON PRIVATELY OWNED PROPERTY.

GENERAL MAINTENANCE OF TRAFFIC NOTES

1. THE MAINTENANCE OF TRAFFIC (MOT) FOR THIS PROJECT SHALL BE IN ACCORDANCE WITH THE CURRENT EDITION OF THE FLORIDA D.O.T. DESIGN STANDARDS INDEX 102 SERIES, THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, AND THE 2009 MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES. IF THE STANDARD INDEX TYPICALS DO NOT APPLY TO THE MOT REQUIREMENTS OF THIS PROJECT, THE CONTRACTOR SHALL SUBMIT A SIGNED AND SEALED MOT PLAN FOR THE ENGINEER'S APPROVAL PRIOR TO THE WORK BEING COMMENCED.

2. THE CONTRACTOR SHALL REFER TO MARTIN COUNTY'S MAINTENANCE OF TRAFFIC (MOT) LANE CLOSURES FOR ARTERIAL OR COLLECTOR ROADS FOR ADDITIONAL LANE CLOSURE REQUIREMENTS.

3. THE CONTRACTOR SHALL INSTALL CONSTRUCTION SIGNING PRIOR TO COMMENCEMENT OF CONSTRUCTION AND MAINTAIN SIGNING DURING ALL PHASES OF CONSTRUCTION.

4. THE ALTERNATION OF TRAVEL WAYS TO CREATE A WORK ZONE SHALL NOT COMMENCE UNTIL ALL LABOR AND MATERIAL ARE READY FOR THE CONSTRUCTION IN THAT ZONE.

5. TRAFFIC DISRUPTIONS WHICH ARE NECESSARY TO CONSTRUCT THE PROJECT SHALL BE SUBMITTED IN WRITING TO THE MARTIN COUNTY PROJECT MANAGER AND APPROVAL SHALL BE OBTAINED AT LEAST 48 HOURS PRIOR TO THE COMMENCEMENT OF WORK. SUBMITTAL MATERIAL SHALL INCLUDE SKETCHES, CALCULATIONS AND OTHER DATA REQUIRED BY THE ENGINEER.

6. THE CONTRACTOR SHALL MAINTAIN ALL EXISTING DRIVEWAY CONNECTIONS AND ACCESS TO ALL PROPERTIES THROUGHOUT THE PROJECT DURING CONSTRUCTION. CONTRACTOR SHALL NOTIFY PROJECT ENGINEER AND PROPERTY OWNERS AT LEAST TWO FULL BUSINESS DAYS IN ADVANCE OF ANY ACCESS CHANGES.

7. THE CONTRACTOR SHALL REMOVE OR COVER ANY EXISTING OR PROPOSED SIGNS OR PAVEMENT MARKINGS WHICH CONFLICT WITH THE TRAFFIC CONTROL PLANS. WHEN THE CONFLICT NO LONGER EXISTS, THE CONTRACTOR SHALL RESTORE THE SIGNS OR PAVEMENT MARKINGS TO THEIR ORIGINAL POSITION. REMOVAL OF EXISTING PAVEMENT MARKING, IF REQUIRED, SHALL BE ACCOMPLISHED BY HYDRO BLASTING OR BY METHODS APPROVED BY ENGINEER, THAT WILL ELIMINATE THE PREVIOUS MARKING PATTERN AND WILL NOT MATERIALLY DAMAGE THE SURFACE TEXTURE OF THE PAVEMENT. USE OF BLACK PAINT TO COVER EXISTING PAVEMENT MARKINGS IS PROHIBITED. THE COST OF SIGN REMOVAL AND RESTORING, PAVEMENT MARKING SHALL BE INCLUDED IN PAY ITEM NO. 102-1 (LS).

8. CONTRACTOR TO HAVE A FLORIDA CERTIFIED MOT SUPERVISOR ON SITE DURING LANE CLOSURES, MOT RESTRICTIONS, ETC. A COPY OF THE CERTIFICATION IS TO BECOME PART OF PROJECT FILE. A COPY OF THAT CERTIFICATION SHALL BE PROVIDED TO THE MARTIN COUNTY PROJECT MANAGER.

9. NOTIFICATION OF LANE CLOSURES SHALL BE ACCOMPLISHED AT LEAST 14 DAYS PRIOR TO CLOSURE OR DETOUR BY SUBMITTING THE REQUIRED LANE CLOSURE FORM, SKETCHES, CALCULATIONS, AND OTHER DATA TO THE ENGINEER.

10. ARROWS ON THE TRAFFIC CONTROL PLANS DENOTE THE DIRECTION OF TRAFFIC ONLY AND DO NOT REFLECT PAVEMENT MARKINGS UNLESS SPECIFICALLY NOTED.

11. THE CONTRACTOR SHALL PROVIDE THE SERVICES OF UNIFORMED OFF-DUTY POLICE OFFICERS TO SUPERVISE TRAFFIC CONTROL WHERE CONSTRUCTION OPERATIONS CAUSE TRAFFIC CONGESTION TO THE EXTENT THAT POLICE SUPERVISION IS NEEDED TO ASSURE PUBLIC SAFETY AND PROTECT THE WORK.

12. THE CONTRACTOR SHALL CONFIRM THE MAINTENANCE OF TRAFFIC PLAN FOR ALL PHASES OF THE WORK PRIOR TO BEGINNING CONSTRUCTION ACTIVITIES. THE PLAN SHALL INDICATE THE TYPE AND LOCATION OF ALL SIGNS, LIGHTS, STRIPING AND BARRIERS TO BE USED FOR THE SAFE PASSAGE OF TRAFFIC AND PEDESTRIANS THROUGH THE PROJECT AREA AND FOR THE PROTECTION OF THE WORKERS. THE PLAN SHALL ALSO INDICATE CONDITIONS AND SETUPS FOR EACH PHASE OF WORK. THE PLAN SHALL PROVIDE FOR MAINTENANCE OF TWO-WAY TRAFFIC AT ALL TIMES WHERE PRACTICAL. PLAN SHALL BE SIGNED, SEALED AND SUBMITTED TO MARTIN COUNTY FOR APPROVAL AT LEAST ONE WEEK PRIOR TO THE PRE-CONSTRUCTION MEETING. THE RECOMMENDED MAINTENANCE OF TRAFFIC PLAN IS PROVIDED IN THE PLANS.

1. WHEN FLAGGERS ARE THE SOLE MEANS OF ONE-WAY CONTROL, THE FLAGGERS SHALL BE IN SIGHT OF EACH OTHER OR IN DIRECT COMMUNICATION AT ALL TIMES.

2. ALL WORK SHALL BE DONE AND SIGNS PLACED ENTIRELY WITHIN THE RIGHT-OF-WAY.

FINAL DESIGN
(FOR CONSTRUCTION)

811 KNOW WHAT'S BELOW ALWAYS CALL 811 BEFORE YOU DIG
Dial 811 or 1-800-432-4770
www.callsunshine.com

REVISIONS		
DATE	BY	DESCRIPTION

BOWMAN NO. 010391-01-002
DESIGNED BY LBL | DRAWN BY JMB
CHECKED BY GMB | PRINT DATE 04/24/2019
ENGINEER OF RECORD L. LEONARD, P.E. NO. 61737

Bowman Consulting Group, Ltd.
301 SE Ocean Blvd. Suit 301
Stuart, FL 34994
Phone: (772) 283-1413
www.bowmanconsulting.com ©
Bowman Consulting Group, Ltd.

Bowman CONSULTING
Certificate of Authorization License No. 30462

CITY OF STUART

PROJECT NAME	FINANCIAL PROJECT ID
NW DIXIE HIGHWAY SIDEWALK EXTENSION	440020-1-58-01
	CITY OF STUART PROJECT NO.

GENERAL NOTES

SHEET NO. 2

P:\010391 - COS Dixie Highway Sidewalk\010391-01-002 (ENG) - COS Dixie Highway Sidewalk\Engineering\Engineering Plans\Dixie Hwy 2-4_6-8_25-28.dwg 2 GEN NOTES vfeola Apr 24,2019 - 9:56am

GRADING, AND DRAINAGE

1. ALL SIDEWALKS SHALL BE CONSTRUCTED AS SHOWN IN THE PLANS. DISTURBED AREAS SHALL BE GRADED NO STEEPER THAN 3H:1V AND SODDED.

2. THE PROPOSED ELEVATIONS SHOWN ON THE PLANS ARE FINISHED GRADES. ALL AREAS SHALL BE GRADED AS NECESSARY TO DRAIN.

3. ALL AREAS SHALL BE SODDED AS SOON AS PRACTICAL AFTER FINAL GRADING TO PREVENT EROSION.

4. SOD SHALL BE PLACED FOR THE FULL WIDTH OF ALL DISTURBED AREAS. SOD TYPE SHALL MATCH EXISTING UNLESS OTHERWISE SPECIFIED. CONTRACTOR SHALL FURNISH THE ENGINEER, PRIOR TO INCORPORATION INTO THE PROJECT, CERTIFICATION FROM THE FLORIDA DEPARTMENT OF AGRICULTURE AND CONSUMER SERVICES DIVISION OF PLANT INDUSTRY STATING THAT SOD, HAY, ETC. ARE FREE FROM NOXIOUS VEGETATION, INCLUDING TROPICAL SODA APPLE.

5. SOD STRIPS SHALL BE LAID IN A STAGGERED PATTERN WITH SNUG EVEN JOINTS. ALL JOINTS SHALL BE JUTTED TIGHT TO PREVENT VOIDS.

6. THE CONTRACTOR SHALL CONSTRUCT THE PROPOSED SIDEWALK IMPROVEMENTS IN A MANNER SO AS TO MINIMIZE ANY ADVERSE IMPACTS TO FISH AND WILDLIFE. THE CONTRACTOR SHALL EMPLOY COUNTERMEASURES AS NECESSARY DURING CONSTRUCTION TO PROTECT WATER QUALITY ON AND OFF-SITE.

7. THE CONTRACTOR SHALL IMMEDIATELY CORRECT ANY EROSION, SHOALING OR WATER QUALITY PROBLEMS THAT ARE CAUSED AS A RESULT OF CONSTRUCTION ACTIVITIES.

8. EXISTING DRAINAGE STRUCTURES WITHIN CONSTRUCTION LIMITS SHALL REMAIN UNLESS OTHERWISE NOTED IN PLANS. ALL DRAINAGE STRUCTURES (EXISTING/PROPOSED) SHALL BE PROTECTED FROM SEDIMENTATION DURING CONSTRUCTION ACCORDING TO THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION STORMWATER, EROSION, AND SEDIMENTATION CONTROL INSPECTOR'S MANUAL, SECTION 4.08 STORM DRAIN PROTECTION.

9. THE CONTRACTOR SHALL RESTORE ALL DRAINAGE SWALES/DITCHES AND REPAIR OR REPLACE ALL DRAINAGE STRUCTURES (INLETS, CULVERTS, HEADWALLS, ETC.) AFFECTED BY CONSTRUCTION ACTIVITIES. RESTORED DRAINAGE SWALES/DITCHES SHALL MEET ALL ORIGINAL CONDITIONS (INCLUDING LOCATION, GRADE, SOD TYPE, ETC.). REPAIRED OR REPLACED DRAINAGE STRUCTURES SHALL MEET ALL ORIGINAL CONDITIONS (INCLUDING LOCATION, ELEVATION, SIZE, MATERIAL, ETC.). PRE- AND POST-CONSTRUCTION AS-BUILT INFORMATION SHALL BE PROVIDED FOR ALL DISTURBED DRAINAGE FACILITIES.

10. CONTRACTOR SHALL MAINTAIN BEST MANAGEMENT PRACTICES (BMPS) AS REQUIRED BY ALL APPLICABLE REGULATORY AGENCIES. THESE BMPS MAY INCLUDE, BUT ARE NOT LIMITED TO, GEOFABRICS, SILT FENCE, FLOATING TURBIDITY BARRIER, CHECK DAMS, AND ANY OTHER MEANS NECESSARY TO PREVENT EROSION AND SEDIMENT DISCHARGE FROM THE DISTURBED AREAS.

11. CONTRACTOR SHALL ADJUST SWALE AND GRADES AS NECESSARY PER THE DIRECTION OF THE MARTIN COUNTY PROJECT MANAGER AT NO ADDITIONAL COST SHOULD FIELD CONDITIONS DICTATE MINOR CHANGES.

12. SITE GRADES MAY BE ADJUSTED AS NECESSARY DURING CONSTRUCTION WITH PRIOR WRITTEN APPROVAL OF THE ENGINEER OF RECORD, AND MARTIN COUNTY TO MINIMIZE HANDLING OF FILL MATERIAL.

DROP OFFS AND ABOVE GROUND HAZARDS:

1. CONTRACTOR SHALL PROVIDE PROTECTION FROM ABOVE GROUND HAZARDS IN THE AREA ADJACENT TO THE TRAVEL WAY. PROTECTION FROM ABOVE GROUND HAZARDS SHALL BE AT THE CONTRACTORS EXPENSE.

ENVIRONMENTAL NOTES

1. UNIDENTIFIED AREAS OF CONTAMINATION:

   WHEN ENCOUNTERING OR EXPOSING ANY ABNORMAL CONDITION INDICATING THE PRESENCE OF A HAZARDOUS OR TOXIC WASTE, OR CONTAMINANTS, CEASE OPERATIONS IMMEDIATELY IN THE VICINITY AND NOTIFY THE MARTIN COUNTY PROJECT MANAGER AT (772) 288-5927. THE PRESENCE OF TANKS OR BARRELS; DISCOLORED EARTH, METAL, WOOD, GROUND WATER, ETC.; VISIBLE FUMES; ABNORMAL ODORS; EXCESSIVELY HOT EARTH; SMOKE; OR OTHER CONDITIONS THAT APPEAR ABNORMAL MAY INDICATE HAZARDOUS OR TOXIC WASTES OR CONTAMINANTS AND MUST BE TREATED WITH EXTREME CAUTION.

   MAKE EVERY EFFORT TO MINIMIZE THE SPREAD OF CONTAMINATION INTO UNCONTAMINATED AREAS. IMMEDIATELY PROVIDE FOR THE HEALTH AND SAFETY OF ALL WORKERS AT THE JOB SITE AND MAKE PROVISIONS NECESSARY FOR THE HEALTH AND SAFETY OF THE PUBLIC THAT MAY BE EXPOSED TO ANY POTENTIALLY HAZARDOUS CONDITIONS. PROVISIONS SHALL MEET ALL APPLICABLE LOCAL, STATE, AND FEDERAL LAWS, RULES, REGULATIONS OR CODES COVERING HAZARDOUS CONDITIONS AND WILL BE IN A MANNER COMMENSURATE WITH THE GRAVITY OF THE CONDITIONS.

   THE MARTIN COUNTY ENGINEER AND/OR CONTRACTOR WILL COORDINATE AND MOBILIZE A QUALIFIED CONTAMINATION ASSESSMENT/REMEDIATION (CAR) CONTRACTOR. QUALIFICATIONS OF SUCH CAR CONTRACTOR SHALL INCLUDE, BUT NOT BE LIMITED TO: EXPERIENCE AND PERSONNEL TO PREPARE CONTAMINATION ASSESSMENT PLANS, CONDUCT CONTAMINATION ASSESSMENTS, PREPARE SITE ASSESSMENT REPORTS, REMEDIATION PLANS, IMPLEMENT REMEDIAL ACTION PLANS, RISK BASED CORRECTIVE ACTIONS, STORAGE TANKS SYSTEM REMOVAL, HIGHWAY SPILL RESPONSE AS WELL AS EXPERIENCE WITH INFRASTRUCTURE CONSTRUCTION ACTIVITIES WITHIN (POTENTIALLY) CONTAMINATED AREAS SPECIFIC TO TRANSPORTATION SYSTEMS.

   ALL THE WORK PERFORMED BY THE CAR CONTRACTOR SHALL BE PERFORMED IN COMPLIANCE WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL REGULATIONS GOVERNING WORKER SAFETY AND ENVIRONMENTAL REGULATIONS. THIS IS TO INCLUDE OCCUPATIONAL EXPOSURE TO CONTAMINATED SOILS, GROUNDWATER, WASTES AND ATMOSPHERE DURING THE CONSTRUCTION OF ALL FEATURES INCLUDED IN THE CONSTRUCTION PLANS. IN ADDITION, THE CAR CONTRACTOR MUST BE STAFFED WITH FLORIDA LICENSED TECHNICAL PROFESSIONALS (GEOLOGISTS AND ENGINEERS) WHO WILL BE INVOLVED WITH THE PROJECT AND KNOWLEDGEABLE OF THE WORK ACTIVITIES CONDUCTED WITHIN THE IDENTIFIED CONTAMINATED AREAS AND WHO WOULD SIGN AND SEAL PROJECT REPORTS AS REQUIRED FOR SUBMITTAL TO THE APPROPRIATE ENVIRONMENTAL REGULATORY AGENCIES.

   THE MARTIN COUNTY PROJECT ENGINEER WILL IMMEDIATELY NOTIFY THE FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT) DISTRICT IV CONTAMINATION IMPACT COORDINATOR (DCIC) AT (954) 777-4286 AFTER ENCOUNTERING THE UNIDENTIFIED AREAS OF CONTAMINATION. PRELIMINARY INVESTIGATION BY THE CAR CONTRACTOR WILL DETERMINE THE COURSE OF ACTION NECESSARY FOR SITE SECURITY AND THE STEPS NECESSARY UNDER APPLICABLE LAWS, RULES, AND REGULATIONS FOR ADDITIONAL ASSESSMENT AND/OR REMEDIATION WORK TO RESOLVE THE CONTAMINATION ISSUE.

   FOLLOWING COMPLETION OF THE PROJECT, THE CAR CONTRACTOR SHALL BE REQUIRED TO PROVIDE COPIES OF ALL REPORTS SUBMITTED TO REGULATORY AGENCIES, WASTE MATERIAL PROFILES, MANIFESTS AND/OR DISPOSAL RECEIPTS FOR THE HANDLING OF ALL CONTAMINATED MEDIA INCLUDING BUT NOT LIMITED TO GROUND WATER, WASTE WATER, SOILS, SOLID WASTES, SLUDGE, HAZARDOUS WASTES, AIR MONITORING RECORDS AND SAMPLE RESULTS FOR ALL MATERIALS TESTED AND ANALYZED TO THE MARTIN COUNTY ENGINEER AND THE FDOT DCIC.

UTILITY COORDINATION

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL REQUIRED UTILITY COORDINATION DURING CONSTRUCTION.

2. THE CONTRACTOR SHALL CONTACT ALL APPLICABLE UTILITIES AT LEAST FORTY-EIGHT (48) HOURS IN ADVANCE OF CONSTRUCTION OPERATIONS.

3. THE LOCATIONS AND SIZES OF EXISTING UTILITIES SHOWN ON THE PLANS ARE APPROXIMATE AND ARE BASED ON THE BEST AVAILABLE INFORMATION. ADDITIONAL UTILITIES MAY EXIST WHICH ARE NOT SHOWN ON THE PLANS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LOCATION OF ALL EXISTING UTILITIES. THE CONTRACTOR SHALL VERIFY ALL UTILITIES BY ELECTRONIC METHODS AND BY HAND EXCAVATION IN COORDINATION WITH ALL APPLICABLE UTILITY COMPANIES, PRIOR TO BEGINNING ANY CONSTRUCTION OPERATIONS. ALL CONFLICTS OF EXISTING UTILITIES WITH PROPOSED IMPROVEMENTS SHALL BE REPORTED TO AND RESOLVED WITH THE OWNER/ENGINEER AND APPLICABLE UTILITY PRIOR TO BEGINNING ANY CONSTRUCTION OPERATIONS.

4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING THE POWER COMPANY AND PAYING ALL NECESSARY FEES FOR HOLDING AND/OR RELOCATING POWER POLES AND/OR LINES AFFECTED BY CONSTRUCTION ACTIVITIES.

5. THE CONTRACTOR SHALL PROTECT EXISTING WATER AND SEWER MAINS AND MAINTAIN EXISTING WATER AND SEWER SERVICES WITHOUT INTERRUPTION AT ALL TIMES DURING CONSTRUCTION.

6. CONTRACTOR SHALL NOTIFY MARTIN COUNTY PROJECT MANAGER & ENGINEER OF RECORD IMMEDIATELY OF ANY UTILITY CONFLICTS, RELOCATIONS OR ADJUSTMENTS.

FINAL DESIGN
(FOR CONSTRUCTION)

811 KNOW WHAT'S BELOW ALWAYS CALL 811 BEFORE YOU DIG
www.callsunshine.com

REVISIONS		
DATE	BY	DESCRIPTION

BOWMAN NO. 010391-01-002

DESIGNED BY LBL	DRAWN BY JMB
CHECKED BY GMB	PRINT DATE 04/24/2019

ENGINEER OF RECORD
L. LEONARD, P.E. NO. 61737

Bowman Consulting Group, Ltd.
301 SE Ocean Blvd. Suit 301
Stuart, FL 34994
Phone: (772) 283-1413
www.bowmanconsulting.com ©
Bowman Consulting Group, Ltd.

Bowman CONSULTING
Certificate of Authorization License No. 30462

CITY OF STUART

PROJECT NAME	FINANCIAL PROJECT ID
NW DIXIE HIGHWAY SIDEWALK EXTENSION	440020-1-58-01
	CITY OF STUART PROJECT NO.

GENERAL NOTES

SHEET NO. 3

P:\010391 - COS Dixie Highway Sidewalk\010391-01-002 (ENG) - COS Dixie Highway Sidewalk\Engineering\Engineering Plans\Dixie Hwy 2-4_6-8_25-28.dwg 3 GEN NOTES vfedio Apr 24,2019 - 9:56am

PAY ITEM NOTES:

102-1 MAINTENANCE OF TRAFFIC INCLUDES SIGNAGE, TEMPORARY STRIPING, AND ANY ITEM NECESSARY TO MEET FDOT STANDARDS.

SUMMARY OF PAY ITEMS

NW DIXIE HIGHWAY SIDEWALK EXTENSION

PAY ITEM NUMBER	PAY ITEM DESCRIPTION	QUANTITY	UNIT
	ROADWAY		
101-1	MOBILIZATION	1	LS
102-1	MAINTENANCE OF TRAFFIC	1	LS
104-10-3	SEDIMENT BARRIER	1100	LF
104-11	FLOATING TURBIDITY BARRIER	50	LF
104-18	INLET PROTECTION SYSTEM	3	EA
107-1	LITTER REMOVAL	1	AC
107-2	MOWING	1	AC
110-1-1	CLEARING AND GRUBBING	1	LS
110-4-10	CONCRETE REMOVAL	5	SY
120-1	REGULAR EXCAVATION	105	CY
120-6	EMBANKMENT	205	CY
160-4	TYPE B STABILIZATION (6" SUBGRADE PREP)	1180	SY
425-1521	Inlets, Ditch Bottom, Type C <10'	1	EA
425-4	INLET TOP - ADJUSTMENT	2	EA
425-6	VALVE BOX - ADJUSTMENT	1	EA
425-82	REPLACE INLET GRATE	3	EA
400-0-11	CONCRETE CLASS NS, GRAVITY WALL	55	CY
515-1-2	PIPE HANDRAIL-GUIDERAIL, ALUMINUM	470	LF
520-1-10	CONCRETE CURB & GUTTER, TYPE F	26	LF
522-1	SIDEWALK, CONCRETE, 4" THICK	1140	SY
522-2	CONCRETE DRIVEWAY - 6" THICK	20	SY
527-2	DETECTABLE WARNING STRIPS	130	SF
327-70-5	MILLING EXISTING ASPHALT - 2" AVG. DEPTH	65	SY
339-1	MISCELLANEOUS ASPHALT	6.5	TON
536-10	GUARDRAIL - ROADWAY, GENERAL/LOW SPEED TL-2	155	LF
536-73	GUARDRAIL REMOVAL	170	LF
536-85-24	GUARDRAIL - END ASSEMBLY	2	EA
550-10118	REMOVE AND RELOCATE EXISTING WIRE FENCE	195	LF
635-2-4	FIBER OPTIC BOX - ADJUSTMENT	1	EA
700-1-11	SINGLE POST SIGN, F&I GROUND MOUNT, UP TO 12 SF	6	AS
700-1-60	SINGLE POST SIGN, REMOVE	6	AS
711-111-23	THERMOPLASTIC PAVEMENT MARKING - WHITE, SOLID, 12" FOR CROSSWALK & ROUNDABOUT	350	LF
101-1B	CONSTRUCTION VIDEOS	1	LS
108-1	CONSTRUCTION LAYOUT/RECORD DRAWINGS	1	LS
1001-0	UTILITY COORDINATION	1	LS
	LANDSCAPE		
570-1-2	PERFORMANCE TURF, SOD	1200	SY

811 KNOW WHAT'S BELOW ALWAYS CALL 811 BEFORE YOU DIG www.callsunshine.com

FINAL DESIGN
(FOR CONSTRUCTION)

REVISIONS		
DATE	BY	DESCRIPTION

BOWMAN NO. 010391-01-002
DESIGNED BY LBL | DRAWN BY JMB
CHECKED BY GMB | PRINT DATE 04/24/2019
ENGINEER OF RECORD L. LEONARD, P.E. NO. 61737

Bowman Consulting Group, Ltd.
301 SE Ocean Blvd. Suit 301
Stuart, FL 34994
Phone: (772) 283-1413
www.bowmanconsulting.com ©
Bowman Consulting Group, Ltd.

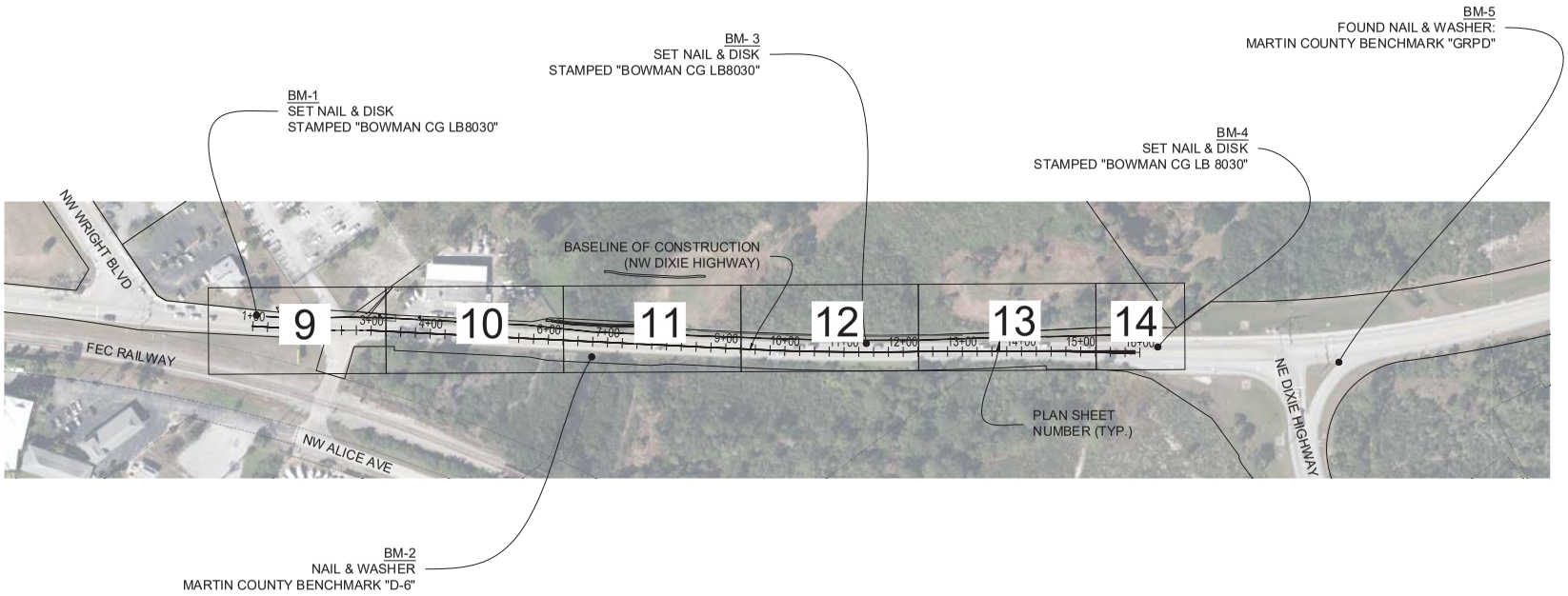
Bowman CONSULTING
Certificate of Authorization License No. 30462

CITY OF STUART
PROJECT NAME: NW DIXIE HIGHWAY SIDEWALK EXTENSION
FINANCIAL PROJECT ID: 440020-1-58-01
CITY OF STUART PROJECT NO.:

SUMMARY OF PAY ITEMS

SHEET NO. 4

P:\010391 - COS Dixie Highway Sidewalk\010391-01-002 (ENG) - COS Dixie Highway Sidewalk\Engineering\Engineering Plans\Dixie Hwy 2-4_6-8_25-28.dwg 4PAY vhelo Apr 24,2019 - 9:56am



COORDINATE TABLE			
BENCHMARK	COORDINATE		
BM-#	NORTHING	EASTING	ELEV.
BM-1	1048480.40	897576.12	4.26 (NAVD 88)
BM-2	1048895.60	897967.26	4.06 (NAVD 88)
BM-3	1049283.34	898223.65	3.44 (NAVD 88)
BM-4	1049654.98	898493.31	5.59 (NAVD 88)
BM-5	1049908.77	898721.22	7.76 (NAVD 88)

NOTES:

1. ALL WORK FOR THIS PROJECT SHALL BE COMPLETED WITHIN AND FROM THE EXISTING RIGHT OF WAY.
2. NORTHING AND EASTING COORDINATE VALUES ARE BASED ON NAD83, 2011 ADJUSTMENT.

GRAPHIC SCALE

200 0 100 200

(IN FEET)
1 inch = 200 ft.

FINAL DESIGN
(FOR CONSTRUCTION)

811 KNOW WHAT'S BELOW ALWAYS CALL 811 BEFORE YOU DIG www.callsunshine.com

REVISIONS		
DATE	BY	DESCRIPTION

BOWMAN NO. 010391-01-002
DESIGNED BY LBL | DRAWN BY JMB
CHECKED BY GMB | PRINT DATE 04/24/2019
ENGINEER OF RECORD L. LEONARD, P.E. NO. 61737

Bowman Consulting Group, Ltd.
301 SE Ocean Blvd. Suit 301
Stuart, FL 34994
Phone: (772) 283-1413
www.bowmanconsulting.com
© Bowman Consulting Group, Ltd.

Bowman CONSULTING
Certificate of Authorization License No. 30462

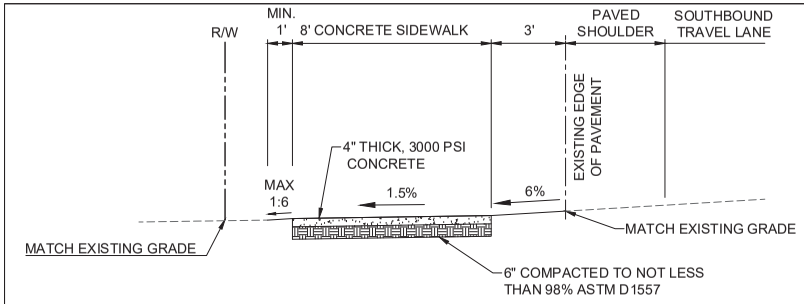
CITY OF STUART

PROJECT NAME	FINANCIAL PROJECT ID
NW DIXIE HIGHWAY SIDEWALK EXTENSION	440020-1-58-01
	CITY OF STUART PROJECT NO.

PROJECT LAYOUT
(KEY SHEET)

SHEET NO. 5

P:\010391 - COS Dixie Highway Sidewalk\010391-01-002 (ENG) - COS Dixie Highway Sidewalk\Engineering\Engineering Plans\Dixie Hwy 1_5.dwg 5 PROJECT LAYOUT vfeola Apr 24,2019 - 9:49am

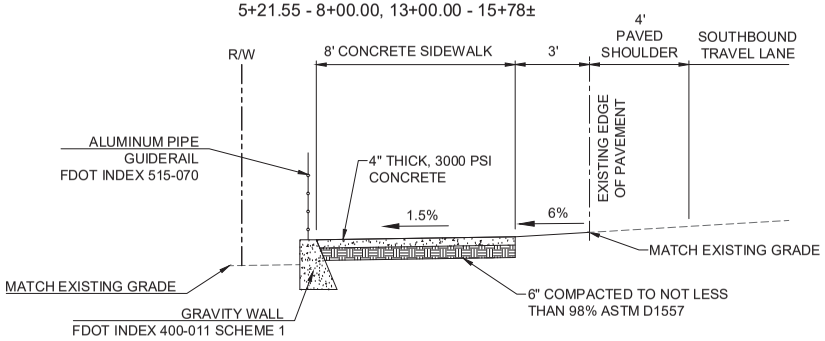


TYPICAL SECTION*

*UNLESS OTHERWISE NOTED

SCALE: 1"=5'

STA: 1+40.87 - 2+13.80, 2+52.74 - 3+46.26, 3+83.68 - 4+70.45, 5+21.55 - 8+00.00, 13+00.00 - 15+78±

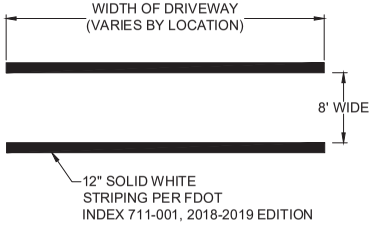


TYPICAL SECTION w/ GRAVITY WALL & GUIDERAIL*

*GUIDERAIL WHERE NOTED ON PLANS

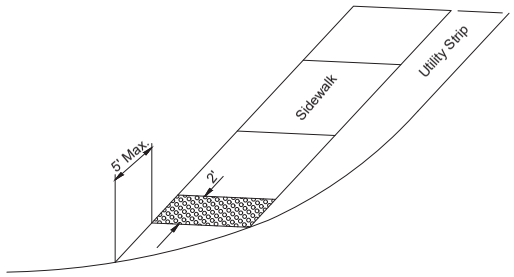
SCALE: 1"=5'

STA: 8+00.00 - 8+39.11, 8+51.11 - 13+00.00



CROSSWALK DETAIL

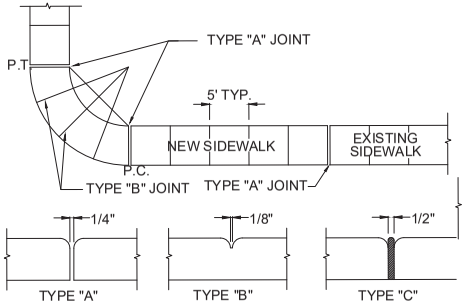
N.T.S.

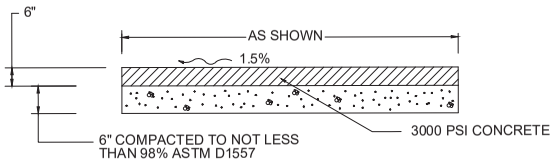


PICTORIAL VIEW FLUSH SHOULDER (OPTION B)

FDOT INDEX 522-002, 2018-2019 EDITION

TABLE OF SIDEWALK JOINTS	
TYPE	LOCATION
"A"	P.C. AND P.T. OF CURVES
"B"	5'0" CENTER TO CENTER ON SIDEWALK
"C"	WHERE SIDEWALK ABUTS CONCRETE CURBS, DRIVEWAYS AND SIMILAR STRUCTURES





TYPICAL DRIVEWAY SECTION

N.T.S.

GENERAL NOTES

1. FOR PUBLIC SIDEWALK CURB RAMPS, REFER TO FDOT INDEX 522-002.
2. FOR PAVEMENT MARKING AND SIGN INSTALLATION, REFER TO FDOT INDEXES 700-010 THROUGH 700-030, 700-040, 700-041, 700-101, 700-108, 700-110, 700-120, 711-001, 711-103.
3. ALL CROSSWALK MARKING MUST BE WHITE.
4. WHEN THE CROSSWALK IS SKEWED TO THE LANE LINES, THE LONGITUDINAL MARKINGS SHOULD BE PARALLEL TO THE LANE LINES.
5. SIDEWALK THROUGH DRIVEWAYS TO BE 6" THICK.
6. FOR CONCRETE FLARED DRIVEWAYS, REFER TO FDOT INDEX 522-003.
7. ALL DETECTABLE WARNING SURFACES ARE TO BE INSTALLED UTILIZING THE CAST-IN-PLACE METHOD.

FINAL DESIGN (FOR CONSTRUCTION)

811 KNOW WHAT'S BELOW ALWAYS CALL 811 BEFORE YOU DIG www.callsunshine.com

REVISIONS		
DATE	BY	DESCRIPTION

BOWMAN NO. 010391-01-002

DESIGNED BY LBL	DRAWN BY JMB
CHECKED BY GMB	PRINT DATE 04/24/2019

ENGINEER OF RECORD L. LEONARD, P.E. NO. 61737

Bowman Consulting Group, Ltd.
301 SE Ocean Blvd. Suit 301
Stuart, FL 34994
Phone: (772) 283-1413
www.bowmanconsulting.com ©
Bowman Consulting Group, Ltd.

Bowman CONSULTING
Certificate of Authorization License No. 30462

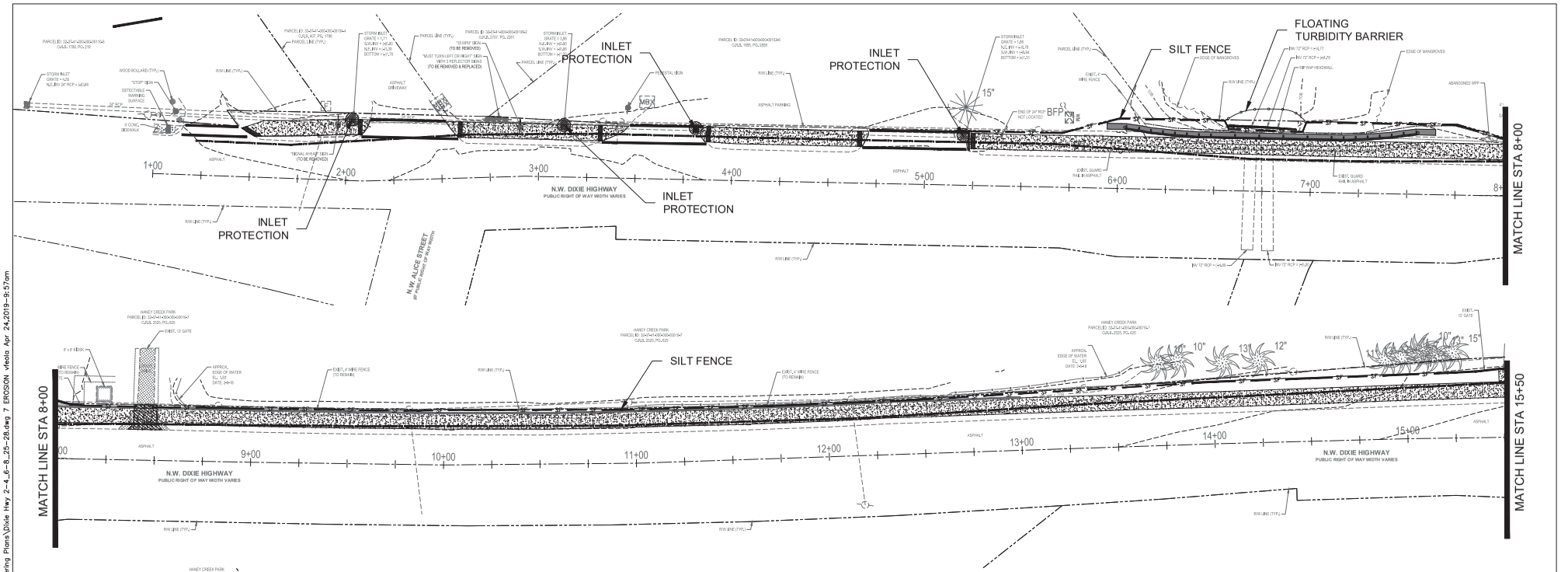
CITY OF STUART

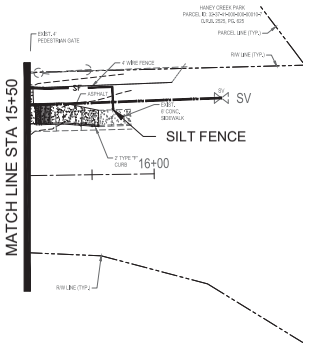
PROJECT NAME	FINANCIAL PROJECT ID
NW DIXIE HIGHWAY SIDEWALK EXTENSION	440020-1-58-01
	CITY OF STUART PROJECT NO.

TYPICAL SECTIONS AND DETAILS

SHEET NO. 6

P:\010391 - COS Dixie Highway Sidewalk\010391-01-002 (ENG) - COS Dixie Highway Sidewalk\Engineering\Engineering Plans\Dixie Hwy 2-4_6-8_25-28.dwg 6 DETAILS vfeito Apr 24,2019-9:57am





NOTES:

1. ALL WORK FOR THIS PROJECT SHALL BE COMPLETED WITHIN AND FROM THE EXISTING RIGHT OF WAY.
2. ALL DISTURBED AREAS SHALL BE SODDED AT COMPLETION OF FINAL GRADING OPERATION.
3. THE CONTRACTOR SHALL IMPLEMENT THE WORK IN A MANNER SO AS TO MINIMIZE ANY ADVERSE IMPACTS OF THE WORK ON NATURAL ENVIRONMENTAL FEATURES AND WATER QUALITY. THE CONTRACTOR SHALL INSTITUTE ALL NECESSARY MEASURES DURING CONSTRUCTION TO REDUCE EROSION, TURBIDITY, NUTRIENT LOADING, AND SEDIMENTATION IN THE RECEIVING WATERS.
4. OFF-SITE DISCHARGES DURING CONSTRUCTION SHALL NOT BE PERMITTED.
5. IT IS THE CONTRACTOR'S RESPONSIBILITY TO INSURE THAT ADVERSE OFF-SITE WATER-RELATED IMPACTS DO NOT OCCUR DURING CONSTRUCTION.
6. CONTRACTOR SHALL BE RESPONSIBLE FOR PERIODIC INSPECTION AND REMOVAL OF DEBRIS AND SILT FROM EROSION CONTROL DEVICES.
7. ALL INLETS AND PIPE SHALL BE PROTECTED DURING CONSTRUCTION TO PREVENT SILTATION IN THE DRAINAGE SYSTEMS BY WAY OF TEMPORARY INLET FILTER SACKS IN THE INLETS. THE DRAINAGE SYSTEM THAT HAS BEEN IMPACTED BY THE PROPOSED MODIFICATIONS SHALL BE CLEANED OF ALL DEBRIS PRIOR TO FINAL ACCEPTANCE.
8. ALL OFF-SITE AREAS DISTURBED DURING CONSTRUCTION ACTIVITY SHALL BE IMMEDIATELY RESTORED TO PRIOR CONDITION PRIOR TO PROCEEDING FURTHUR WITH ANY WORK.
9. CONTRACTOR SHALL BE RESPONSIBLE FOR ADHERING TO ALL APPLICABLE WATER QUALITY, NPDES PERMIT, AND STORMWATER POLLUTION PREVENTION PLAN REQUIREMENTS. CONTRACTOR SHALL BE RESPONSIBLE FOR SUBMITTING A NOTICE OF INTENT (NOI) TO THE FDEP, PRIOR TO COMMENCING CONSTRUCTION.
10. ALL EROSION AND SEDIMENTATION CONTROLS ARE TO BE INSPECTED AND REPAIRED DAILY. MORE THOROUGH INSPECTIONS ARE TO BE PERFORMED WEEKLY AND IMMEDIATELY FOLLOWING A RAIN EVENT GREATER THAN 0.5". WEEKLY INSPECTION REPORTS ARE TO BE MAINTAINED ON-SITE AT ALL TIMES. TURBIDITY AND RAINFALL MONITORING SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. BASELINE TURBIDITY IS TO BE ESTABLISHED PRIOR TO CONSTRUCTION.

LEGEND

- SF — SF — SF — SILT FENCE
- INLET PROTECTION
- FLOATING TURBIDITY BARRIER

GENERAL SEQUENCE OF CONSTRUCTION:

1. NOTIFY THE COUNTY'S PROJECT MANAGER AT LEAST (48) HOURS PRIOR TO START OF CONSTRUCTION.
2. PERFORM CLEARING AND GRUBBING REQUIRED FOR INSTALLATION OF PERIMETER CONTROLS AND INSTALL APPROPRIATE INLET PROTECTION DEVICES FOR ALL EXISTING INLETS WITHIN PROJECT LIMITS.
3. INSTALL PERIMETER SEDIMENT CONTROL BMPS; NOTIFY THE COUNTY'S PROJECT MANAGER AND OBTAIN APPROVAL BEFORE PROCEEDING FURTHER.
4. CONSTRUCT THE SIDEWALK AND APPURTENANCES AND MAINTAIN ALL BMPS.
5. NOTIFY THE COUNTY'S PROJECT MANAGER INSPECTOR AND OBTAIN APPROVAL TO REMOVE SEDIMENT AND EROSION CONTROL.

GRAPHIC SCALE

50 0 25

(IN FEET)

1 inch = 50 ft.

FINAL DESIGN
(FOR CONSTRUCTION)

811 KNOW WHAT'S BELOW ALWAYS CALL 811 BEFORE YOU DIG
www.callsunshine.com

REVISIONS		
DATE	BY	DESCRIPTION

BOWMAN NO. 010391-01-002	
DESIGNED BY LBL	DRAWN BY JMB
CHECKED BY GMB	PRINT DATE 04/24/2019
ENGINEER OF RECORD L. LEONARD, P.E. NO. 61737	

Bowman Consulting Group, Ltd.
301 SE Ocean Blvd. Suit 301
Stuart, FL 34994
Phone: (772) 283-1413
www.bowmanconsulting.com ©
Bowman Consulting Group, Ltd.

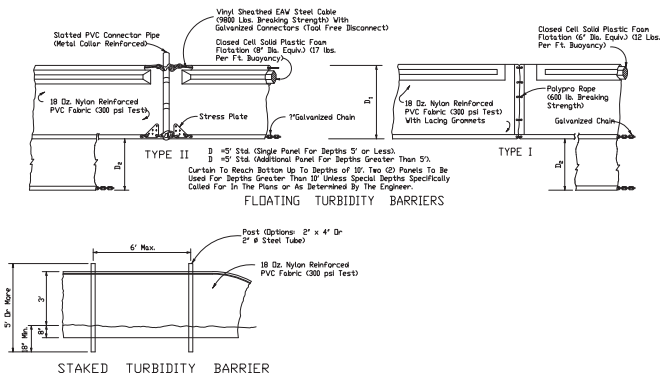
Bowman CONSULTING
Certificate of Authorization License No. 30462

CITY OF STUART	
PROJECT NAME	FINANCIAL PROJECT ID
NW DIXIE HIGHWAY SIDEWALK EXTENSION	440020-1-58-01
	CITY OF STUART PROJECT NO.

EROSION & SEDIMENT CONTROL PLAN

SHEET NO. 7

P:\010391 – COS Dixie Highway Sidewalk\010391-01-002 (ENG) – COS Dixie Highway Sidewalk\Engineering\Engineering Plans\Dixie Hwy 2-4_6-8_25-28.dwg 7 EROSION vtedo Apr 24,2019 - 9:57am



FLOATING TURBIDITY BARRIERS

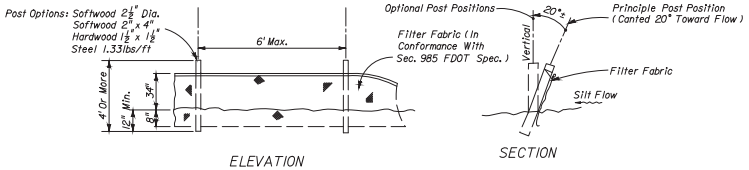
STAKED TURBIDITY BARRIER

TEMPORARY FLOATING TURBIDITY BARRIER

N.T.S.



Silt Fence Protection In Ditches with Intermittent Flow



ELEVATION *SECTION*

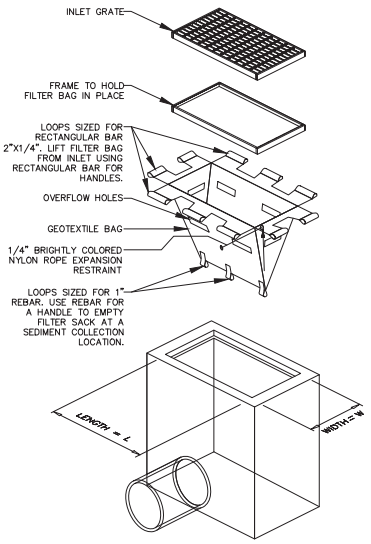
SILT FENCE

NOTES:

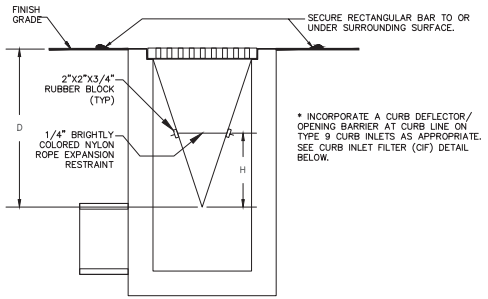
1. *Do not construct silt fences across permanent flowing watercourses. Silt fences are to be at upland locations and turbidity barriers used at permanent bodies of water.*
2. *Where used as slope protection, Silt Fence is to be constructed on 0% longitudinal grade to avoid channelizing runoff along the length of the fence.*

SEDIMENTATION/SILT FENCE DETAIL

N.T.S.



ISOMETRIC VIEW



SECTION VIEW
(FILTER SACK INSTALLED)

NOTES:

1. GEOTEXTILE SHALL BE A WOVEN POLYPROPYLENE FABRIC THAT MEETS OR EXCEEDS REQUIREMENTS IN THE SPECIFICATIONS TABLE.
2. PLACE AN OIL ABSORBENT PAD OR PILLOW OVER INLET GRATE WHEN OIL SPILLS ARE A CONCERN.
3. THE WIDTH, "W", OF THE FILTER SACK SHALL MATCH THE INSIDE WIDTH OF THE GRATED INLET BOX.
4. THE DEPTH, "D", OF THE FILTER SACK SHALL BE BETWEEN 18 INCHES AND 36 INCHES.
5. THE LENGTH, "L", OF THE FILTER SACK SHALL MATCH THE INSIDE LENGTH OF THE GRATED INLET BOX.

MAINTENANCE NOTES:

1. INLET PROTECTION DEVICES MUST BE INSPECTED FOR SEDIMENT ACCUMULATION WITHIN THE CATCH BASIN. REMOVE TRAPPED SEDIMENT WHEN BRIGHTLY COLORED EXPANSION RESTRAINT CAN NO LONGER BE SEEN.
2. REMOVAL OF SEDIMENT ACCUMULATED IN OR ADJACENT TO A STORM DRAIN INLET MUST BEGIN IMMEDIATELY UPON DISCOVERY, WITH COMPLETION OF THE ACTIVITY OCCURRING NO LATER THAN THE END OF THE FOLLOWING BUSINESS DAY.
3. INLET PROTECTION DEVICES SHALL BE INSPECTED FOR UNINTENDED BYPASS OR IMPROPER FLOW-RATES THAT MAY CAUSE DOWNSTREAM FLOODING.
4. CONTACT THE ENGINEER FOR ALTERNATE INLET PROTECTION IF THE DESIGNED PROTECTION MAY IMPACT DOWNSTREAM BMPS, ADJACENT SLOPES, ETC., DUE TO PONDING ISSUES. ENSURE THAT NO UNDERMINING OF INLET PROTECTION DEVICES HAS OCCURRED.
5. INLET PROTECTION DEVICES AND BARRIERS SHALL BE REPAIRED OR REPLACED IF THEY SHOW SIGNS OF UNDERMINING OR DETERIORATION.

LOW TO MODERATE FLOW GEOTEXTILE FABRIC SPECIFICATION TABLE		
PROPERTIES	TEST METHOD	UNITS
GRAB TENSILE STRENGTH	ASTM D-4632	300 LBS
GRAB TENSILE ELONGATION	ASTM D-4632	20 %
PUNCTURE	ASTM D-4833	120 LBS
MULLEN BURST	ASTM D-3786	800 PSI
TRAPEZOID TEAR	ASTM D-4533	120 LBS
UV RESISTANCE	ASTM D-4355	80 %
APPARENT OPENING SIZE	ASTM D-4751	40 US SIEVE
FLOW RATE	ASTM D-4491	40 GAL/MIN/SQ FT
PERMITTIVITY	ASTM D-4491	0.55 SEC $^{-1}$

MODERATE TO HIGH FLOW GEOTEXTILE FABRIC SPECIFICATION TABLE		
PROPERTIES	TEST METHOD	UNITS
GRAB TENSILE STRENGTH	ASTM D-4632	265 LBS
GRAB TENSILE ELONGATION	ASTM D-4632	20 %
PUNCTURE	ASTM D-4833	135 LBS
MULLEN BURST	ASTM D-3786	420 PSI
TRAPEZOID TEAR	ASTM D-4533	45 LBS
UV RESISTANCE	ASTM D-4355	90 %
APPARENT OPENING SIZE	ASTM D-4751	20 US SIEVE
FLOW RATE	ASTM D-4491	200 GAL/MIN/SQ FT
PERMITTIVITY	ASTM D-4491	1.5 SEC $^{-1}$

INLET PROTECTION FILTER SACK AT PAVED AREAS

N.T.S.

FINAL DESIGN
(FOR CONSTRUCTION)

811 KNOW WHAT'S BELOW ALWAYS CALL 811 BEFORE YOU DIG www.callsunshine.com

REVISIONS		
DATE	BY	DESCRIPTION

BOWMAN NO. 010391-01-002
DESIGNED BY LBL | DRAWN BY JMB
CHECKED BY GMB | PRINT DATE 04/24/2019
ENGINEER OF RECORD L. LEONARD, P.E. NO. 61737

Bowman Consulting Group, Ltd.
301 SE Ocean Blvd. Suit 301
Stuart, FL 34994
Phone: (772) 283-1413
www.bowmanconsulting.com ©
Bowman Consulting Group, Ltd.

Bowman CONSULTING
Certificate of Authorization License No. 30462

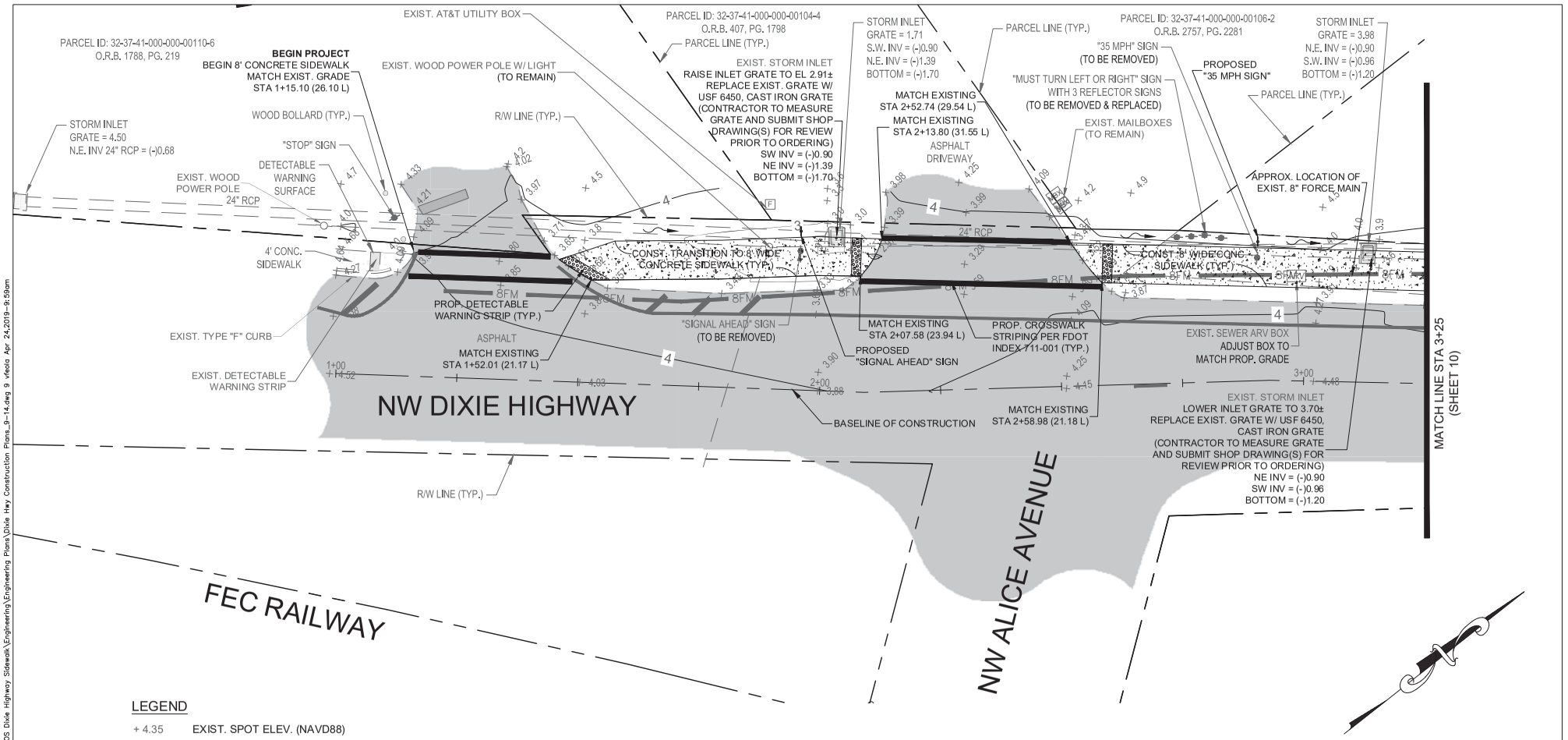
CITY OF STUART

PROJECT NAME	FINANCIAL PROJECT ID
NW DIXIE HIGHWAY SIDEWALK EXTENSION	440020-1-58-01
	CITY OF STUART PROJECT NO.

EROSION & SEDIMENT CONTROL DETAILS

SHEET NO. 8

P:\010391 - COS Dixie Highway Sidewalk\010391-01-002 (ENG) - COS Dixie Highway Sidewalk\Engineering\Engineering Plans\Dixie Hwy 2-4_6-8_25-28.dwg 8 EROSION DETAILS vtedio Apr 24,2019-9:57am



LEGEND

+ 4.35 EXIST. SPOT ELEV. (NAVD88)

— 4 — EXIST. CONTOUR

EXIST. ASPHALT PAVEMENT

PROPOSED CONCRETE SIDEWALK

NOTES:

1. ALL WORK FOR THIS PROJECT SHALL BE COMPLETED WITHIN AND FROM THE EXISTING RIGHT OF WAY.
2. ALL EXISTING FEATURES ARE TO REMAIN UNLESS OTHERWISE NOTED.
3. ALL ELEVATIONS SHOWN HERE ON REFER TO NAVD 88 DATUM.
4. CONTRACTOR TO COORDINATE WITH FPL TO REMOVE ABANDONED UTILITY POLE(S) PRIOR TO ANY CONSTRUCTION.
5. CONTRACTOR TO GRADE GREEN SPACE TO SLOPE TOWARD INLET.

811 KNOW WHAT'S BELOW ALWAYS CALL 811 BEFORE YOU DIG www.callsunshine.com

GRAPHIC SCALE

20 0 10 20

(IN FEET)

1 inch = 20 ft.

FINAL DESIGN
(FOR CONSTRUCTION)

REVISIONS		
DATE	BY	DESCRIPTION

BOWMAN NO. 010391-01-002	
DESIGNED BY LBL	DRAWN BY JMB
CHECKED BY GMB	PRINT DATE 04/24/2019
ENGINEER OF RECORD L. LEONARD, P.E. NO. 61737	

Bowman Consulting Group, Ltd.
301 SE Ocean Blvd. Suit 301
Stuart, FL 34994
Phone: (772) 283-1413
www.bowmanconsulting.com ©
Bowman Consulting Group, Ltd.

Bowman CONSULTING
Certificate of Authorization License No. 30462

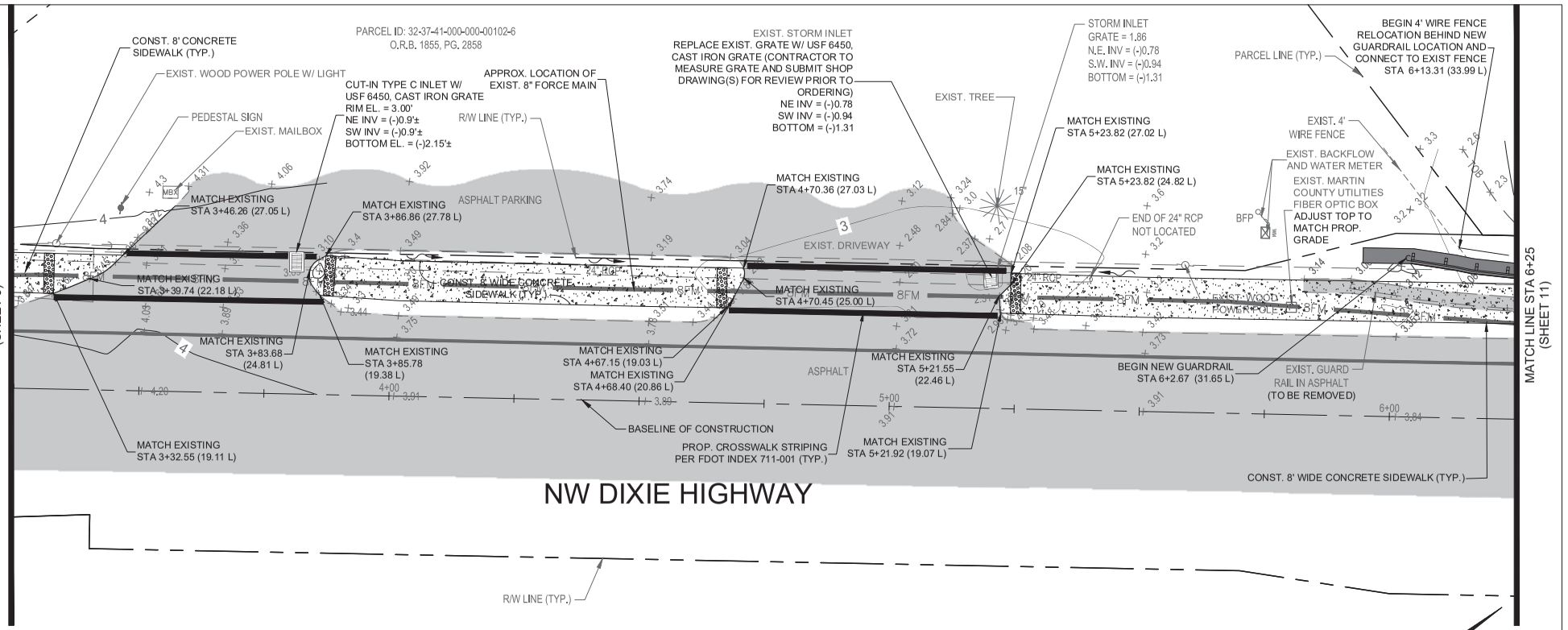
CITY OF STUART

PROJECT NAME	FINANCIAL PROJECT ID
NW DIXIE HIGHWAY SIDEWALK EXTENSION	440020-1-58-01
	CITY OF STUART PROJECT NO.

CONSTRUCTION PLAN
STA 1+15 to 3+25

SHEET NO. 9

P:\010391 – COS Dixie Highway Sidewalk\010391-01-002 (ENG) – COS Dixie Highway Sidewalk\Engineering\Engineering Plans\Dixie Hwy Construction Plans_9-14.dwg 9 vfeola Apr 24,2019–9:59am



LEGEND

+ 4.35	EXIST. SPOT ELEV. (NAVD88)
— 4 —	EXIST. CONTOUR
	EXIST. ASPHALT PAVEMENT
	PROPOSED CONCRETE SIDEWALK
	PROPOSED ASPHALT

NOTES:

1. ALL WORK FOR THIS PROJECT SHALL BE COMPLETED WITHIN AND FROM THE EXISTING RIGHT OF WAY.
2. ALL EXISTING FEATURES ARE TO REMAIN UNLESS OTHERWISE NOTED.
3. ALL ELEVATIONS SHOWN HERE ON REFER TO NAVD 88 DATUM.
4. THE EXISTING GUARDRAIL SHALL REMAIN IN PLACE OR TEMPORARY BARRIER(S) MUST BE INSTALLED AND MAINTAINED UNTIL THE NEW GUARDRAIL IS INSTALLED.
5. THE EXISTING WIRE FENCE SHALL REMAIN IN PLACE UNTIL THE NEW WIRE FENCE IS INSTALLED.
6. CONTRACTOR TO COORDINATE WITH FPL TO REMOVE ABANDONED UTILITY POLE(S) PRIOR TO ANY CONSTRUCTION.
7. GUARDRAIL POST LOCATIONS ARE APPROXIMATE. CONTRACTOR TO FIELD VERIFY ANY UTILITY/DRAINAGE CONFLICTS PRIOR TO CONSTRUCTION.

811 KNOW WHAT'S BELOW ALWAYS CALL 811 BEFORE YOU DIG www.callsunshine.com

GRAPHIC SCALE

20 0 10 20

(IN FEET)
1 inch = 20 ft.

FINAL DESIGN
(FOR CONSTRUCTION)

REVISIONS		
DATE	BY	DESCRIPTION

BOWMAN NO. 010391-01-002	
DESIGNED BY LBL	DRAWN BY JMB
CHECKED BY GMB	PRINT DATE 04/24/2019
ENGINEER OF RECORD L. LEONARD, P.E. NO. 61737	

Bowman Consulting Group, Ltd.
301 SE Ocean Blvd. Suit 301
Stuart, FL 34994
Phone: (772) 283-1413
www.bowmanconsulting.com ©
Bowman Consulting Group, Ltd.

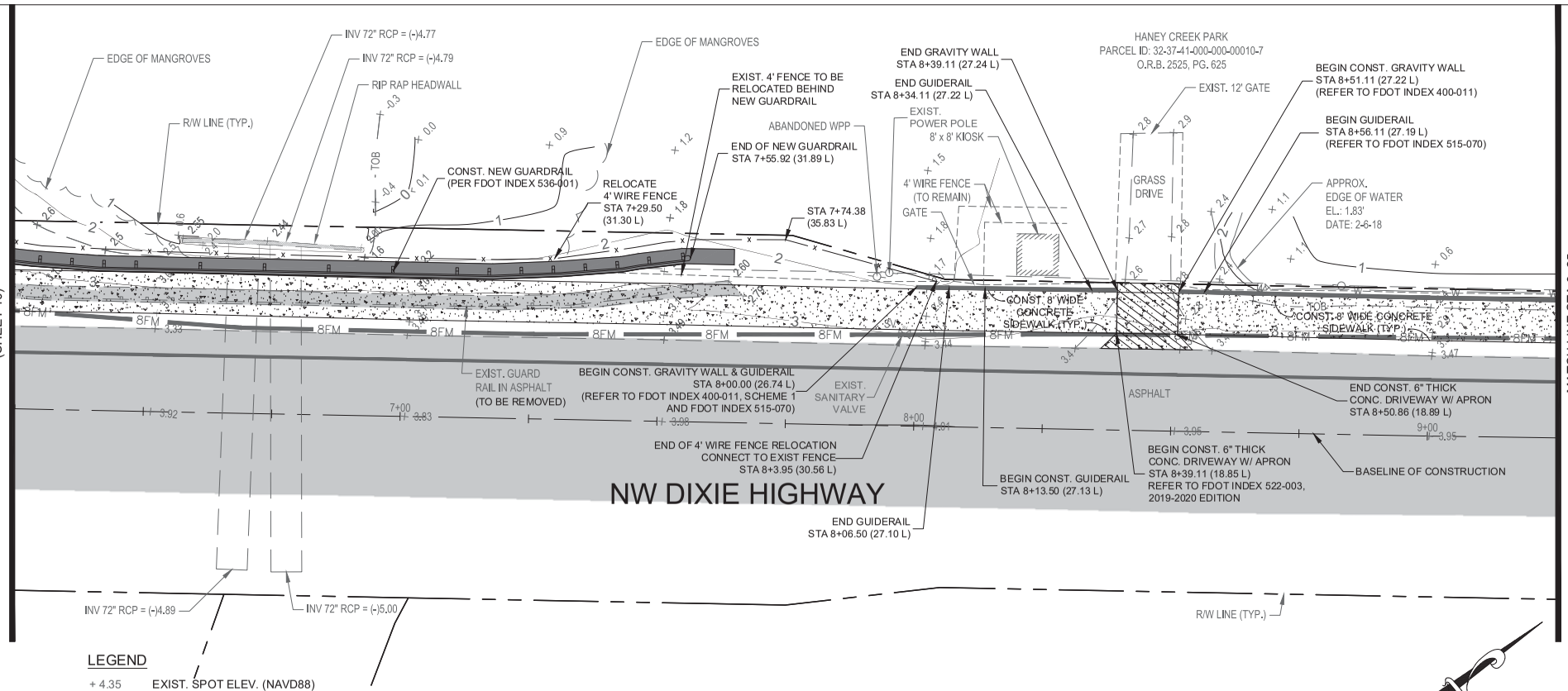
Bowman CONSULTING
Certificate of Authorization License No. 30462

CITY OF STUART	
PROJECT NAME	FINANCIAL PROJECT ID
NW DIXIE HIGHWAY SIDEWALK EXTENSION	440020-1-58-01
	CITY OF STUART PROJECT NO.

CONSTRUCTION PLAN
STA 3+25 to 6+25

SHEET NO. 10

P:\010391 – COS Dixie Highway Sidewalk\010391-01-002 (ENG) – COS Dixie Highway Sidewalk\Engineering\Engineering Plans\Dixie Hwy Construction Plans_9-14.dwg 10 vfeola Apr 24,2019-10:00am



LEGEND

+ 4.35	EXIST. SPOT ELEV. (NAVD88)
— 4 —	EXIST. CONTOUR
	EXIST. ASPHALT PAVEMENT
	PROPOSED CONCRETE SIDEWALK
	PROPOSED 6" THICK CONCRETE
	PROPOSED ASPHALT

NOTES:

1. ALL WORK FOR THIS PROJECT SHALL BE COMPLETED WITHIN AND FROM THE EXISTING RIGHT OF WAY.
2. ALL EXISTING FEATURES ARE TO REMAIN UNLESS OTHERWISE NOTED.
3. ALL ELEVATIONS SHOWN HERE ON REFER TO NAVD 88 DATUM.
4. THE EXISTING GUARDRAIL SHALL REMAIN IN PLACE OR TEMPORARY BARRIER(S) MUST BE INSTALLED AND MAINTAINED UNTIL THE NEW GUARDRAIL IS INSTALLED.
   THE EXISTING WIRE FENCE SHALL REMAIN IN PLACE UNTIL THE NEW WIRE FENCE IS INSTALLED.
5. CONTRACTOR TO COORDINATE WITH FPL TO REMOVE ABANDONED UTILITY POLE(S) PRIOR TO ANY CONSTRUCTION.
6. GUARDRAIL POST LOCATIONS ARE APPROXIMATE. CONTRACTOR TO FIELD VERIFY ANY UTILITY/DRAINAGE CONFLICTS PRIOR TO CONSTRUCTION.

811 KNOW WHAT'S BELOW ALWAYS CALL 811 BEFORE YOU DIG
It's free. It's easy. It's the law.
www.callsunshine.com

GRAPHIC SCALE

20 0 10 20

(IN FEET)
1 inch = 20 ft.

FINAL DESIGN
(FOR CONSTRUCTION)

REVISIONS		
DATE	BY	DESCRIPTION

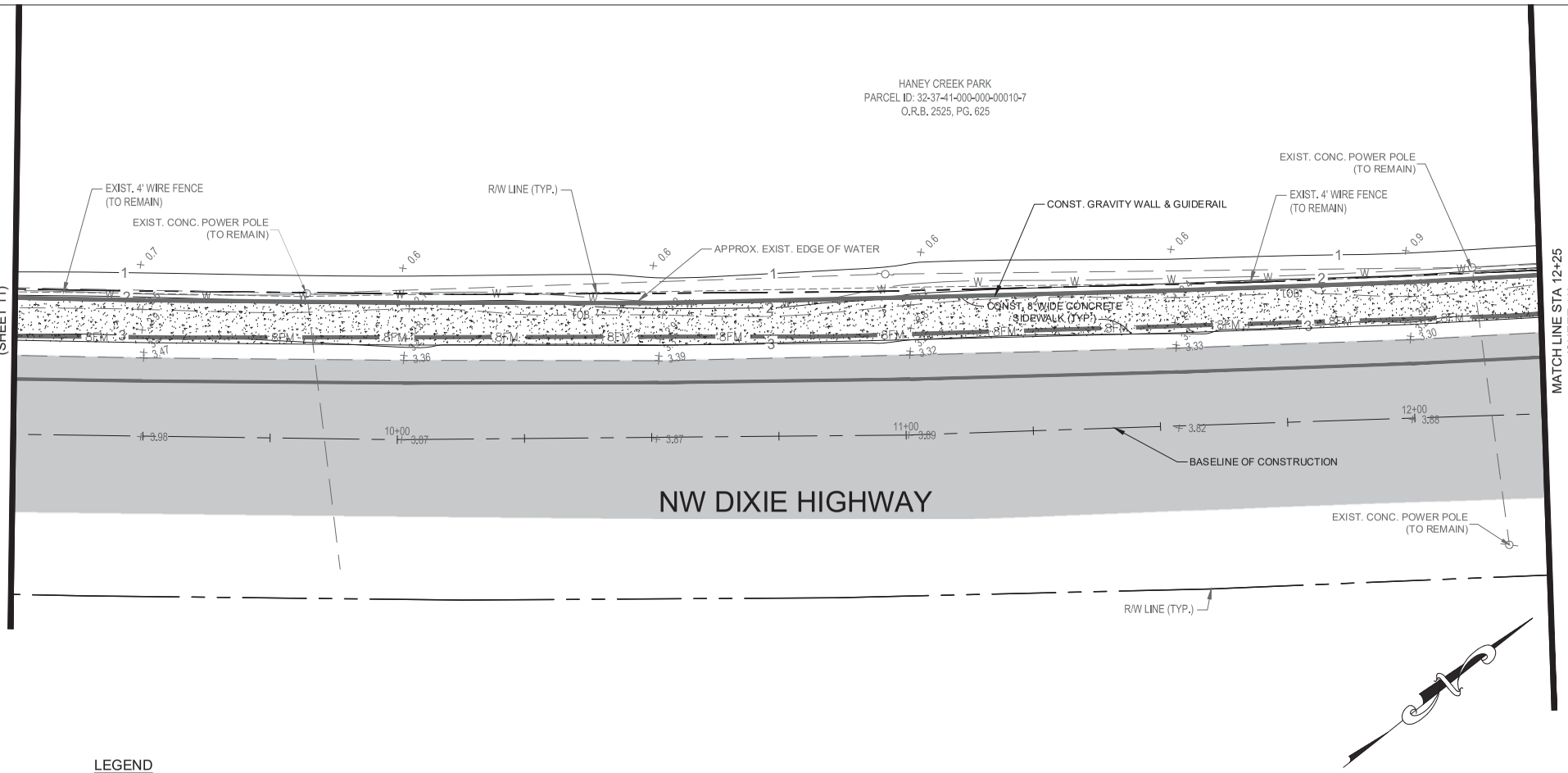
BOWMAN NO. 010391-01-002	
DESIGNED BY LBL	DRAWN BY JMB
CHECKED BY GMB	PRINT DATE 04/24/2019
ENGINEER OF RECORD L. LEONARD, P.E. NO. 61737	

Bowman Consulting Group, Ltd.
301 SE Ocean Blvd. Suit 301
Stuart, FL 34994
Phone: (772) 283-1413
www.bowmanconsulting.com ©
Bowman Consulting Group, Ltd.

Bowman CONSULTING
Certificate of Authorization License No. 30462

CITY OF STUART		CONSTRUCTION PLAN STA 6+25 to 9+25	SHEET NO.
PROJECT NAME	FINANCIAL PROJECT ID		11
NW DIXIE HIGHWAY SIDEWALK EXTENSION	440020-1-58-01		
	CITY OF STUART PROJECT NO.		

P:\010391 – COS Dixie Highway Sidewalk\010391-01-002 (ENG) – COS Dixie Highway Sidewalk\Engineering\Engineering Plans\Dixie Hwy Construction Plans_9-14.dwg 11 vfeola Apr 24,2019-10:00am



LEGEND

+ 4.35	EXIST. SPOT ELEV. (NAVD88)
— 4 —	EXIST. CONTOUR
	EXIST. ASPHALT PAVEMENT
	PROPOSED CONCRETE SIDEWALK

NOTES:

1. ALL WORK FOR THIS PROJECT SHALL BE COMPLETED WITHIN AND FROM THE EXISTING RIGHT OF WAY.
2. ALL EXISTING FEATURES ARE TO REMAIN UNLESS OTHERWISE NOTED.
3. ALL ELEVATIONS SHOWN HERE ON REFER TO NAVD 88 DATUM.
4. CONTRACTOR TO COORDINATE WITH FPL TO REMOVE ABANDONED UTILITY POLE(S) PRIOR TO ANY CONSTRUCTION.

811 KNOW WHAT'S BELOW ALWAYS CALL 811 BEFORE YOU DIG
www.callsunshine.com

GRAPHIC SCALE

20 0 10 20

(IN FEET)

1 inch = 20 ft.

FINAL DESIGN
(FOR CONSTRUCTION)

REVISIONS		
DATE	BY	DESCRIPTION

BOWMAN NO. 010391-01-002	
DESIGNED BY LBL	DRAWN BY JMB
CHECKED BY GMB	PRINT DATE 04/24/2019
ENGINEER OF RECORD L. LEONARD, P.E. NO. 61737	

Bowman Consulting Group, Ltd.
301 SE Ocean Blvd. Suit 301
Stuart, FL 34994
Phone: (772) 283-1413
www.bowmanconsulting.com ©
Bowman Consulting Group, Ltd.

Bowman CONSULTING
Certificate of Authorization License No. 30462

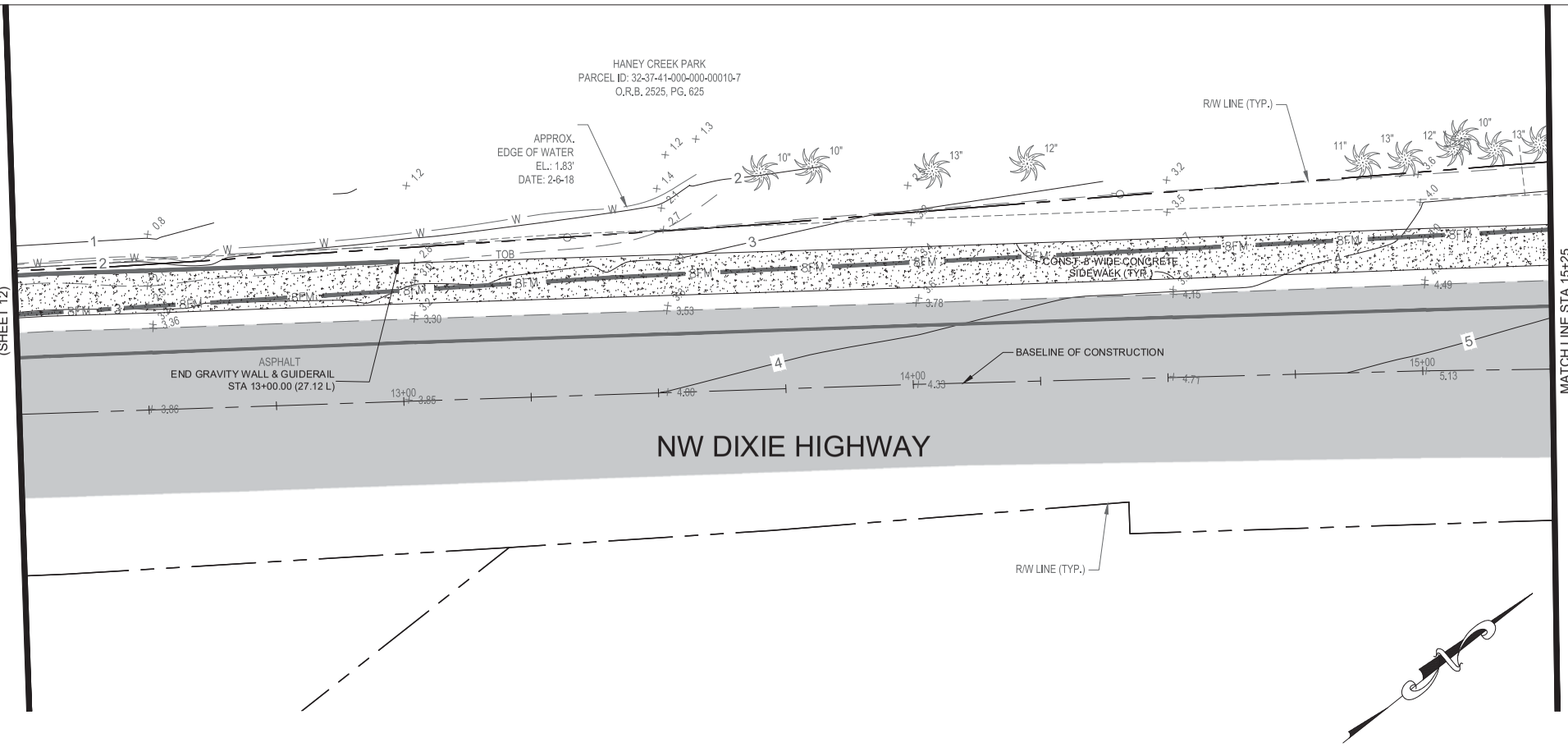
CITY OF STUART

PROJECT NAME	FINANCIAL PROJECT ID
NW DIXIE HIGHWAY SIDEWALK EXTENSION	440020-1-58-01
	CITY OF STUART PROJECT NO.

CONSTRUCTION PLAN
STA 9+25 to 12+25

SHEET NO. 12

P:\010391 – COS Dixie Highway Sidewalk\010391-01-002 (ENG) – COS Dixie Highway Sidewalk\Engineering\Engineering Plans\Dixie Hwy Construction Plans_9-14.dwg 12 vfeola Apr 24,2019-10:00am



LEGEND

+ 4.35	EXIST. SPOT ELEV. (NAVD88)
4	EXIST. CONTOUR
	EXIST. ASPHALT PAVEMENT
	PROPOSED CONCRETE SIDEWALK

NOTES:

1. ALL WORK FOR THIS PROJECT SHALL BE COMPLETED WITHIN AND FROM THE EXISTING RIGHT OF WAY.
2. ALL EXISTING FEATURES ARE TO REMAIN UNLESS OTHERWISE NOTED.
3. ALL ELEVATIONS SHOWN HERE ON REFER TO NAVD 88 DATUM.
4. CONTRACTOR TO COORDINATE WITH FPL TO REMOVE ABANDONED UTILITY POLE(S) PRIOR TO ANY CONSTRUCTION.

811 KNOW WHAT'S BELOW ALWAYS CALL 811 BEFORE YOU DIG www.callsunshine.com

GRAPHIC SCALE

20 0 10 20

(IN FEET)
1 inch = 20 ft.

FINAL DESIGN
(FOR CONSTRUCTION)

REVISIONS		
DATE	BY	DESCRIPTION

BOWMAN NO. 010391-01-002	
DESIGNED BY LBL	DRAWN BY JMB
CHECKED BY GMB	PRINT DATE 04/24/2019
ENGINEER OF RECORD L. LEONARD, P.E. NO. 61737	

Bowman Consulting Group, Ltd.
301 SE Ocean Blvd. Suit 301
Stuart, FL 34994
Phone: (772) 283-1413
www.bowmanconsulting.com
©
Bowman Consulting Group, Ltd.

Bowman CONSULTING
Certificate of Authorization License No. 30462

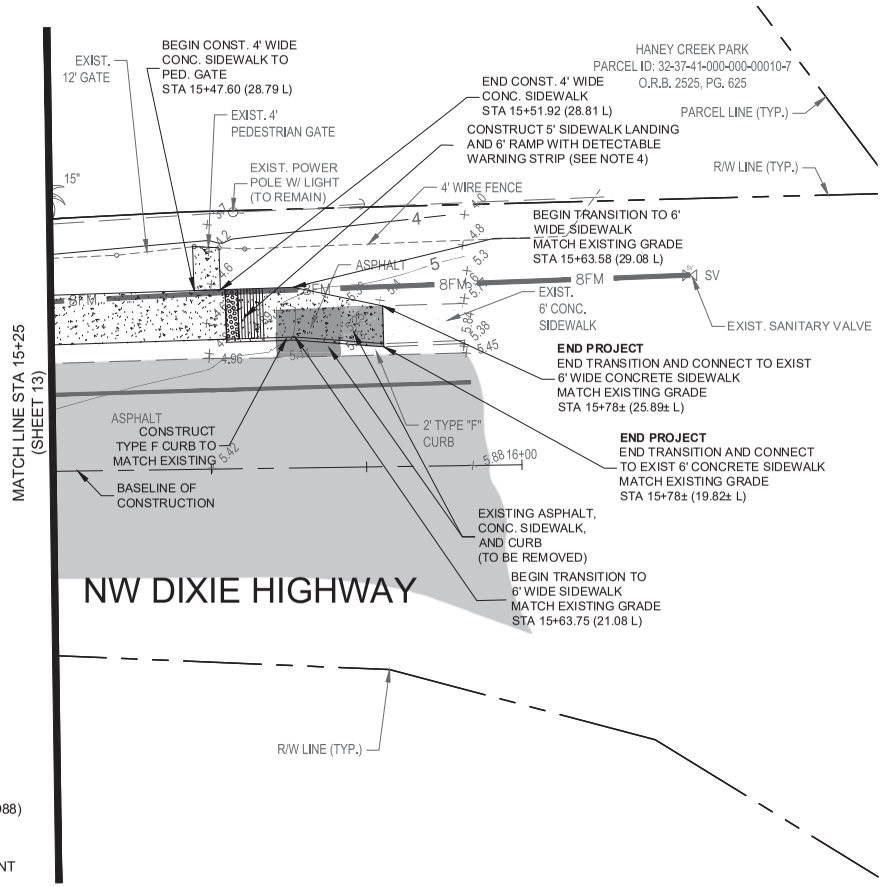
CITY OF STUART

PROJECT NAME	FINANCIAL PROJECT ID
NW DIXIE HIGHWAY SIDEWALK EXTENSION	440020-1-58-01
	CITY OF STUART PROJECT NO.

CONSTRUCTION PLAN
STA 12+25 to 15+25

SHEET NO. 13

P:\010391 – COS Dixie Highway Sidewalk\010391-01-002 (ENG) – COS Dixie Highway Sidewalk\Engineering\Engineering Plans\Dixie Hwy Construction Plans_9-14.dwg 13 vfeola Apr 24,2019-10:00am



LEGEND

+ 4.35	EXIST. SPOT ELEV. (NAVD88)
4	EXIST. CONTOUR
	EXIST. ASPHALT PAVEMENT
	PROPOSED CONCRETE SIDEWALK
	PROPOSED 6" THICK CONCRETE

NOTES:

1. ALL WORK FOR THIS PROJECT SHALL BE COMPLETED WITHIN AND FROM THE EXISTING RIGHT OF WAY.
2. ALL EXISTING FEATURES ARE TO REMAIN UNLESS OTHERWISE NOTED.
3. ALL ELEVATIONS SHOWN HERE ON REFER TO NAVD 88 DATUM.
4. CONSTRUCT 5' SIDEWALK LANDING (5' MIN WIDTH & 2% MAX SLOPE) AND A 6' RAMP (1:12 MAX SLOPE) AND DETECTABLE WARNING STRIP PER FDOT INDEX 522-002, FDOT STANDARD SPECIFICATIONS SECTION 527 AND PER ADA REQUIREMENTS.
5. CONTRACTOR TO COORDINATE WITH FPL TO REMOVE ABANDONED UTILITY POLE(S) PRIOR TO ANY CONSTRUCTION.

811 KNOW WHAT'S BELOW ALWAYS CALL 811 BEFORE YOU DIG www.callsunshine.com

GRAPHIC SCALE

20 0 10 20

(IN FEET)
1 inch = 20 ft.

FINAL DESIGN
(FOR CONSTRUCTION)

REVISIONS		
DATE	BY	DESCRIPTION

BOWMAN NO. 010391-01-002	
DESIGNED BY LBL	DRAWN BY JMB
CHECKED BY GMB	PRINT DATE 04/24/2019
ENGINEER OF RECORD L. LEONARD, P.E. NO. 61737	

Bowman Consulting Group, Ltd.
301 SE Ocean Blvd. Suit 301
Stuart, FL 34994
Phone: (772) 283-1413
www.bowmanconsulting.com
© Bowman Consulting Group, Ltd.

Bowman CONSULTING
Certificate of Authorization License No. 30462

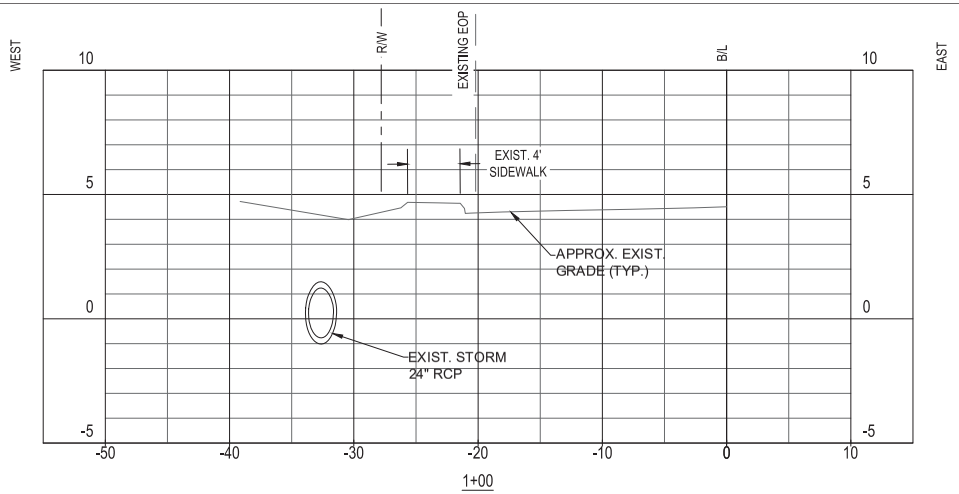
CITY OF STUART

PROJECT NAME	FINANCIAL PROJECT ID
NW DIXIE HIGHWAY SIDEWALK EXTENSION	440020-1-58-01
	CITY OF STUART PROJECT NO.

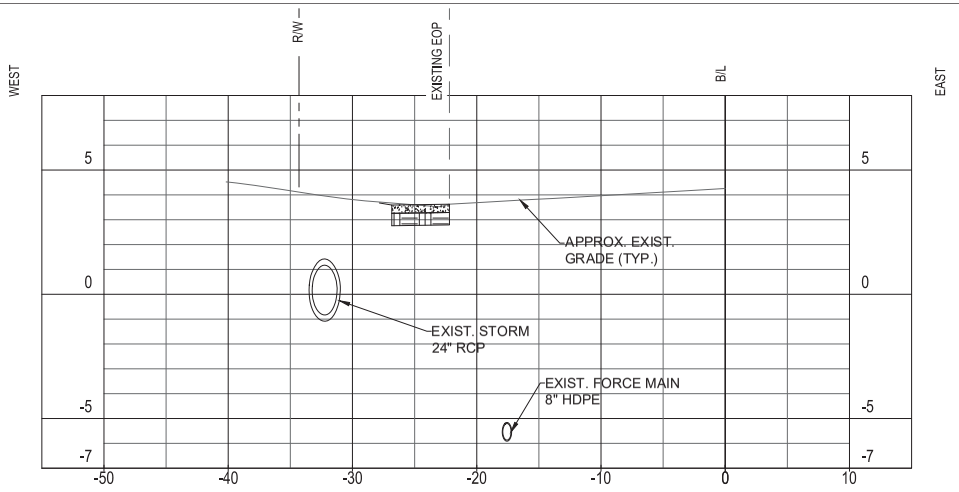
CONSTRUCTION PLAN
STA 15+25 to 15+78

SHEET NO. 14

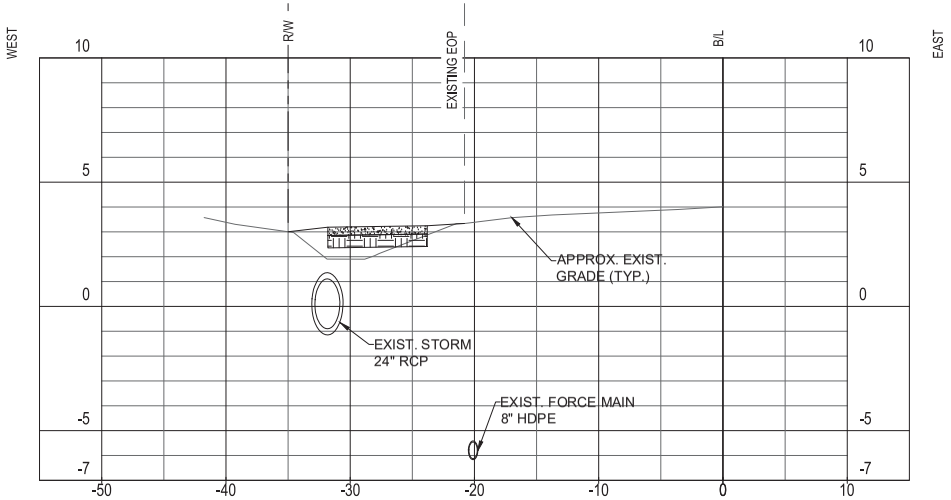
P:\010391 – COS Dixie Highway Sidewalk\010391-01-002 (ENG) – COS Dixie Highway Sidewalk\Engineering\Engineering Plans\Dixie Hwy Construction Plans_9-14.dwg 14 vfeola Apr 24,2019-10:00am



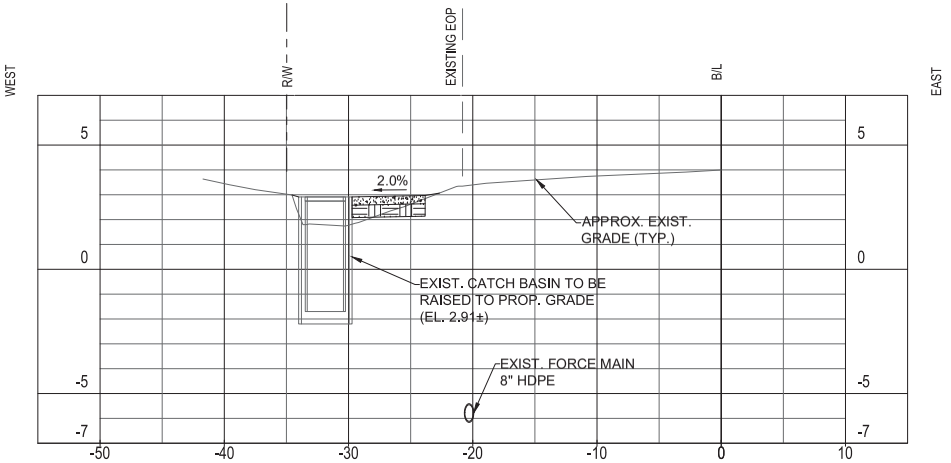
1+00
VERTICAL SCALE: 1"=5'
HORIZONTAL SCALE: 1"=10'



1+50
VERTICAL SCALE: 1"=5'
HORIZONTAL SCALE: 1"=10'



2+00
VERTICAL SCALE: 1"=5'
HORIZONTAL SCALE: 1"=10'



2+02
VERTICAL SCALE: 1"=5'
HORIZONTAL SCALE: 1"=10'

NOTE:

1. ELEVATIONS SHOWN HEREON ARE REFERENCED TO NAVD88.

FINAL DESIGN
(FOR CONSTRUCTION)

REVISIONS		
DATE	BY	DESCRIPTION

BOWMAN NO. 010391-01-002
DESIGNED BY LBL | DRAWN BY JMB
CHECKED BY GMB | PRINT DATE 04/24/2019
ENGINEER OF RECORD L. LEONARD, P.E. NO. 61737

Bowman Consulting Group, Ltd.
301 SE Ocean Blvd. Suit 301
Stuart, FL 34994
Phone: (772) 283-1413
www.bowmanconsulting.com
©
Bowman Consulting Group, Ltd.

Bowman CONSULTING
Certificate of Authorization License No. 30462

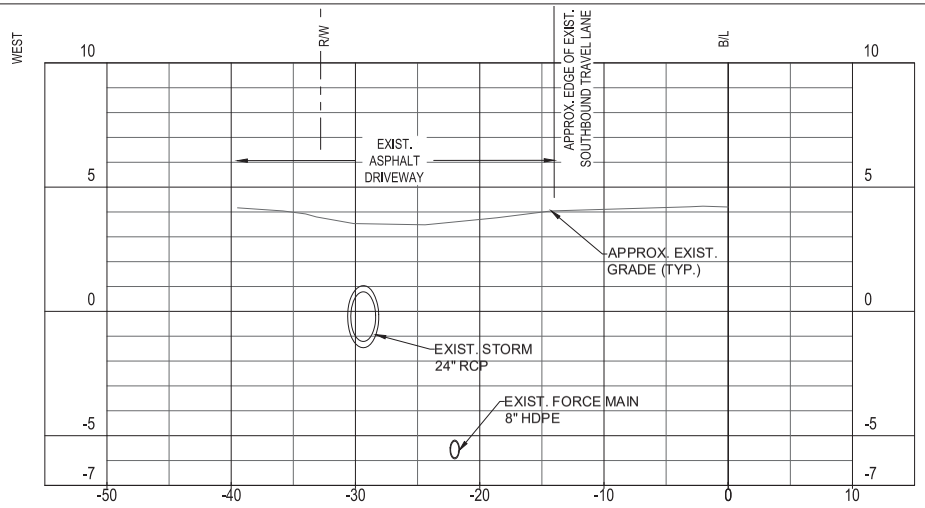
CITY OF STUART

PROJECT NAME	FINANCIAL PROJECT ID
NW DIXIE HIGHWAY SIDEWALK EXTENSION	440020-1-58-01
	CITY OF STUART PROJECT NO.

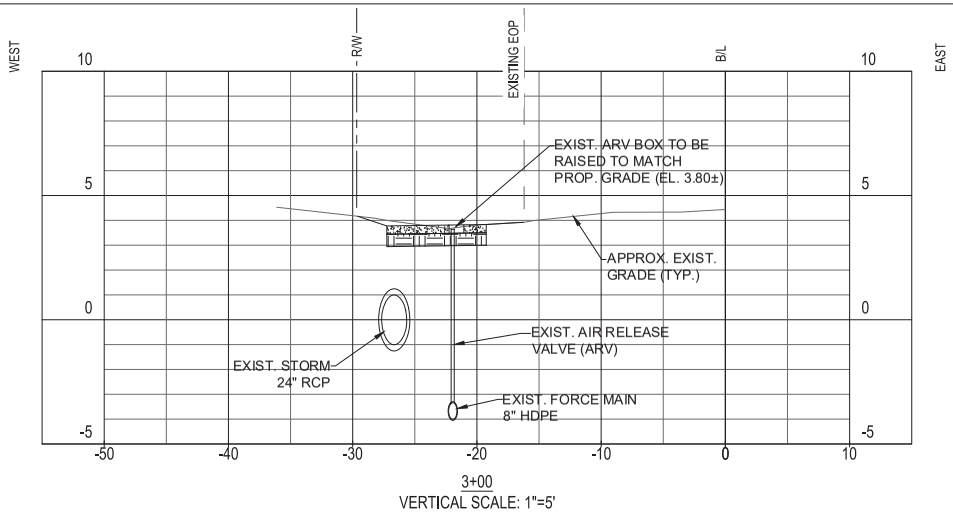
CROSS SECTIONS

SHEET NO. 15

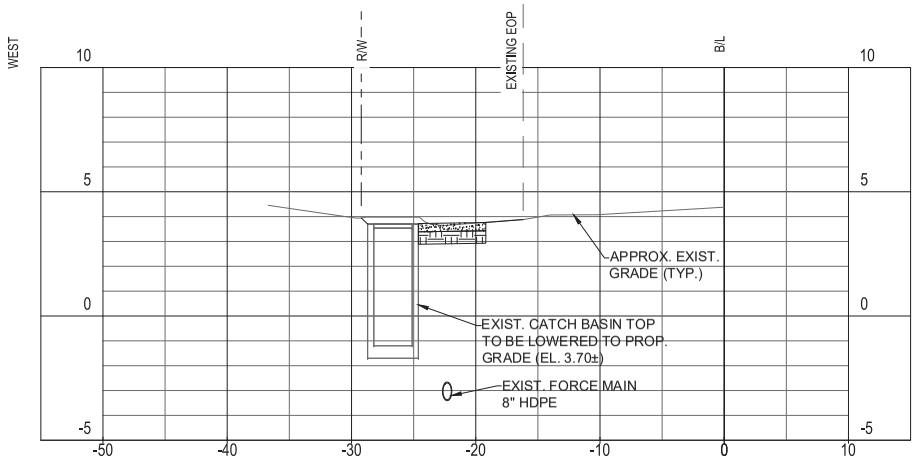
P:\010391 - COS Dixie Highway Sidewalk\010391-01-002 (ENG) - COS Dixie Highway Sidewalk\Engineering\Engineering Plans\Dixie Hwy Cross Sections 15-24.dwg 15 vfeols Apr 24,2019-10:03am



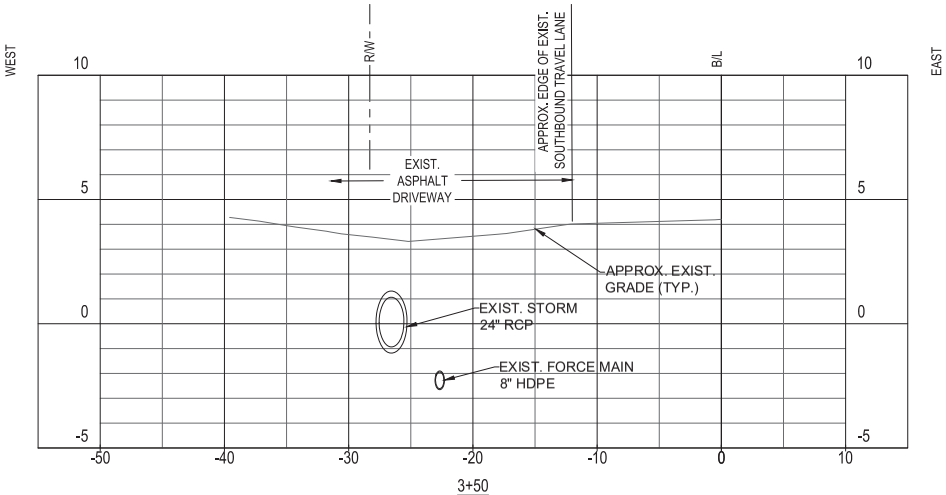
2+50
VERTICAL SCALE: 1"=5'
HORIZONTAL SCALE: 1"=10'



3+00
VERTICAL SCALE: 1"=5'
HORIZONTAL SCALE: 1"=10'



3+13
VERTICAL SCALE: 1"=5'
HORIZONTAL SCALE: 1"=10'



3+50
VERTICAL SCALE: 1"=5'
HORIZONTAL SCALE: 1"=10'

811 KNOW WHAT'S BELOW ALWAYS CALL 811 BEFORE YOU DIG www.callsunshine.com

NOTE:

1. ELEVATIONS SHOWN HEREON ARE REFERENCED TO NAVD88.

FINAL DESIGN
(FOR CONSTRUCTION)

REVISIONS		
DATE	BY	DESCRIPTION

BOWMAN NO. 010391-01-002
DESIGNED BY LBL | DRAWN BY JMB
CHECKED BY GMB | PRINT DATE 04/24/2019
ENGINEER OF RECORD L. LEONARD, P.E. NO. 61737

Bowman Consulting Group, Ltd.
301 SE Ocean Blvd. Suit 301
Stuart, FL 34994
Phone: (772) 283-1413
www.bowmanconsulting.com
© Bowman Consulting Group, Ltd.

Bowman CONSULTING
Certificate of Authorization License No. 30462

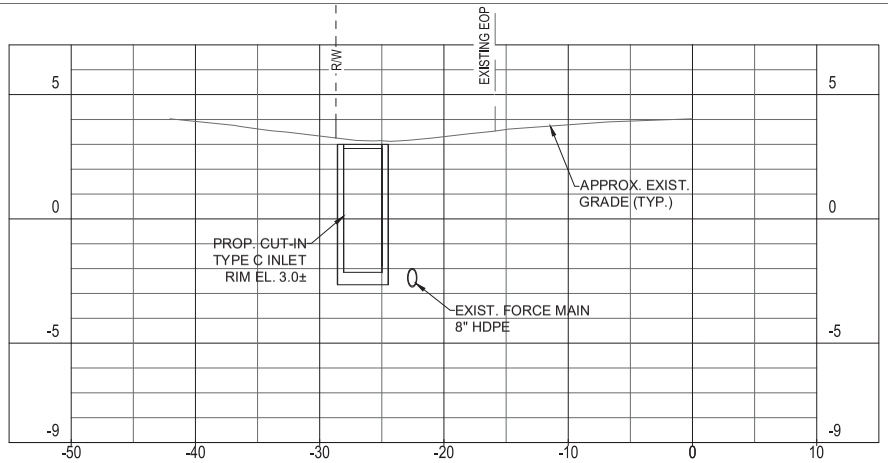
CITY OF STUART

PROJECT NAME	FINANCIAL PROJECT ID
NW DIXIE HIGHWAY SIDEWALK EXTENSION	440020-1-58-01
	CITY OF STUART PROJECT NO.

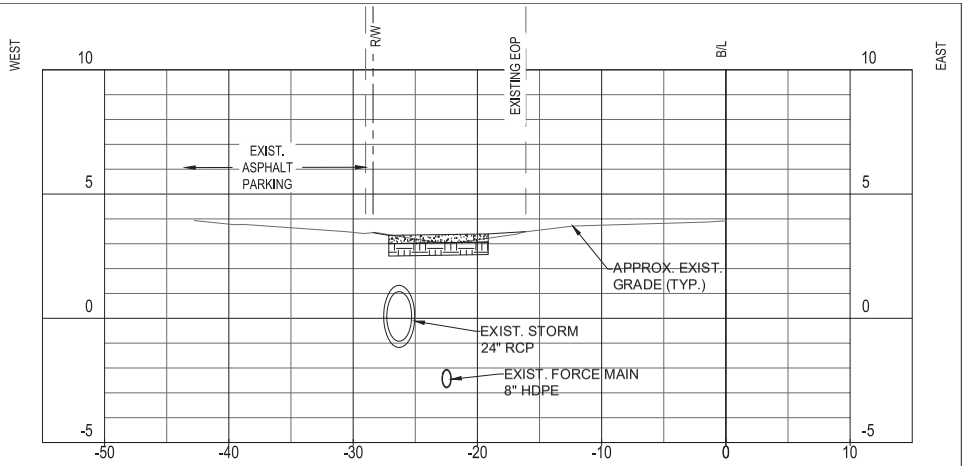
CROSS SECTIONS

SHEET NO. 16

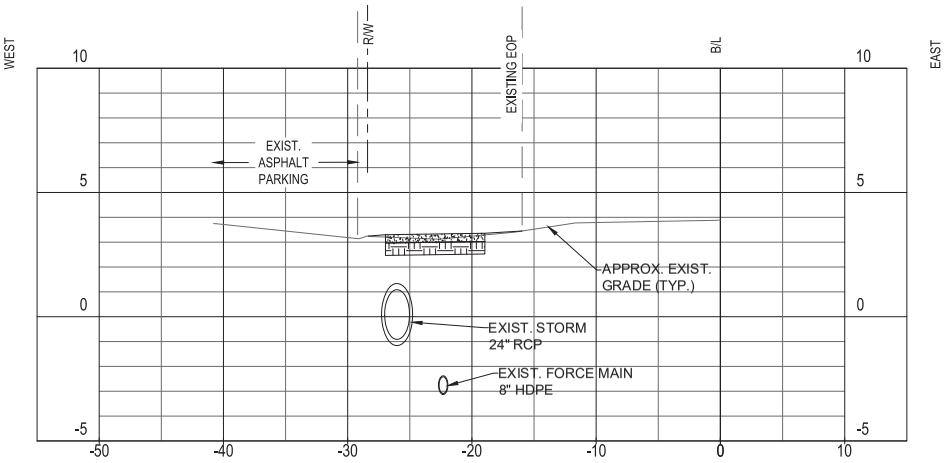
P:\010391 – COS Dixie Highway Sidewalk\010391-01-002 (ENG) – COS Dixie Highway Sidewalk\Engineering\Engineering Plans\Dixie Hwy Cross Sections 15-24.dwg 16 vfeola Apr 24,2019-10:04am



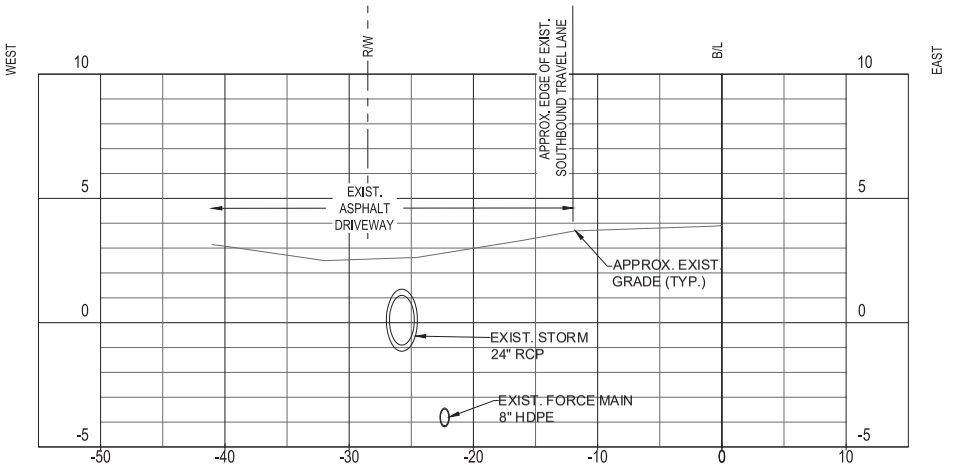
3+81
VERTICAL SCALE: 1"=5'
HORIZONTAL SCALE: 1"=10'



4+00
VERTICAL SCALE: 1"=5'
HORIZONTAL SCALE: 1"=10'



4+50
VERTICAL SCALE: 1"=5'
HORIZONTAL SCALE: 1"=10'



5+00
VERTICAL SCALE: 1"=5'
HORIZONTAL SCALE: 1"=10'

NOTE:

1. ELEVATIONS SHOWN HEREON ARE REFERENCED TO NAVD88.

FINAL DESIGN
(FOR CONSTRUCTION)

REVISIONS		
DATE	BY	DESCRIPTION

BOWMAN NO. 010391-01-002
DESIGNED BY LBL | DRAWN BY JMB
CHECKED BY GMB | PRINT DATE 04/24/2019
ENGINEER OF RECORD L. LEONARD, P.E. NO. 61737

Bowman Consulting Group, Ltd.
301 SE Ocean Blvd. Suit 301
Stuart, FL 34994
Phone: (772) 283-1413
www.bowmanconsulting.com ©
Bowman Consulting Group, Ltd.

Bowman CONSULTING
Certificate of Authorization License No. 30462

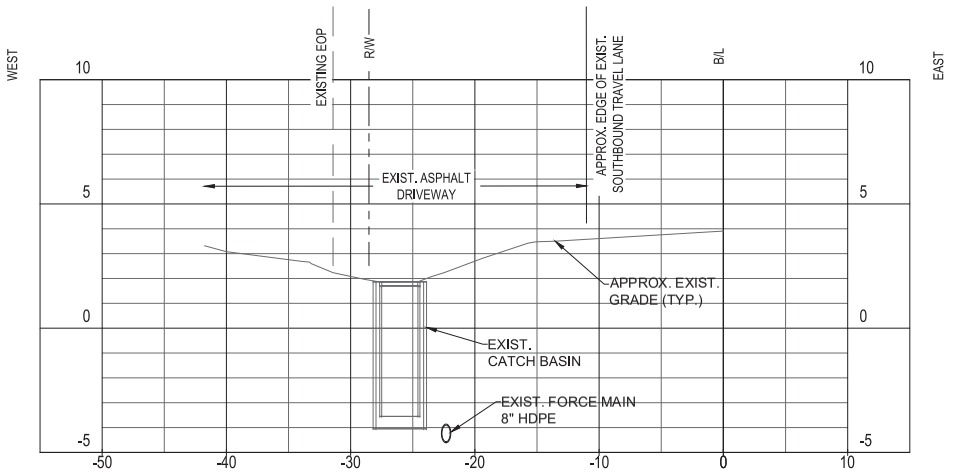
CITY OF STUART

PROJECT NAME	FINANCIAL PROJECT ID
NW DIXIE HIGHWAY SIDEWALK EXTENSION	440020-1-58-01
	CITY OF STUART PROJECT NO.

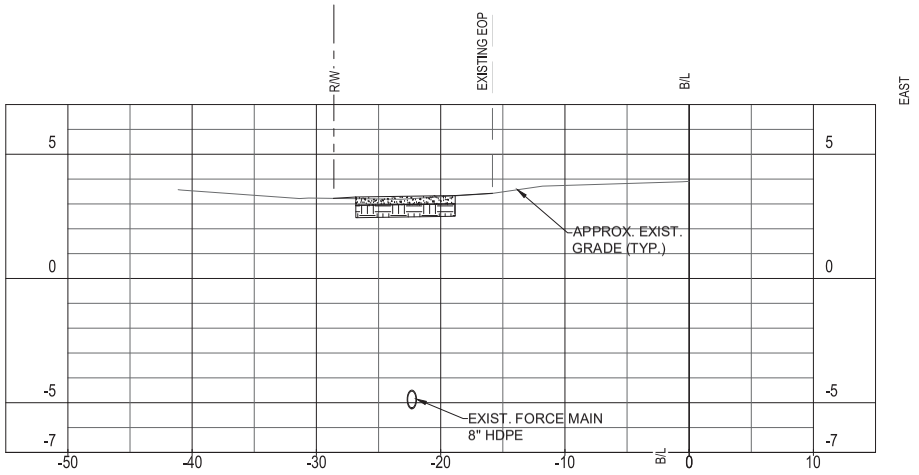
CROSS SECTIONS

SHEET NO. 17

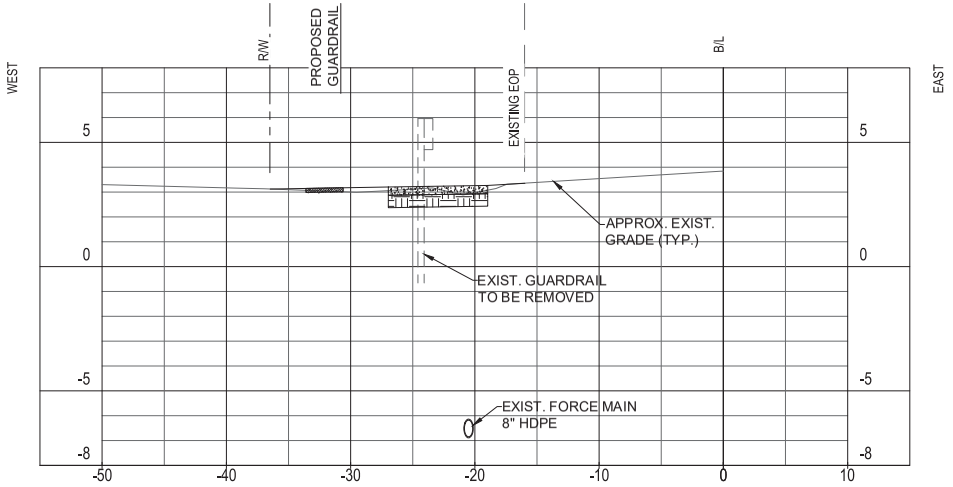
P:\010391 - COS Dixie Highway Sidewalk\010391-01-002 (ENG) - COS Dixie Highway Sidewalk\Engineering\Engineering Plans\Dixie Hwy Cross Sections 15-24.dwg 17 vfeols Apr 24,2019-10:04am



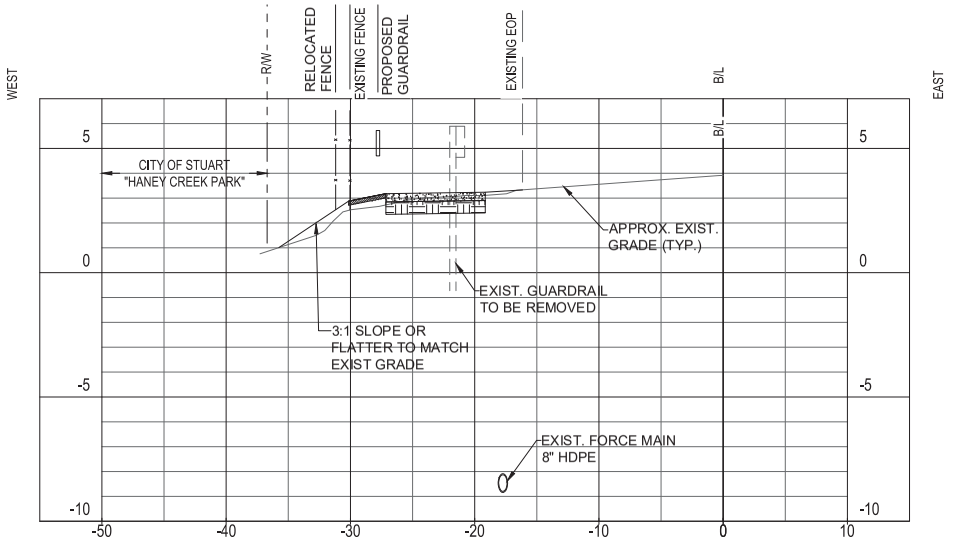
5+20
VERTICAL SCALE: 1"=5'
HORIZONTAL SCALE: 1"=10'



5+50
VERTICAL SCALE: 1"=5'
HORIZONTAL SCALE: 1"=10'



6+00
VERTICAL SCALE: 1"=5'
HORIZONTAL SCALE: 1"=10'



6+50
VERTICAL SCALE: 1"=5'
HORIZONTAL SCALE: 1"=10'

NOTES:

1. ELEVATIONS SHOWN HEREON ARE REFERENCED TO NAVD88.
2. ALUMINUM PIPE GUIDERAIL - INDEX 515-070 (FOR GRADES 0% TO 5%)

FINAL DESIGN
(FOR CONSTRUCTION)

811 KNOW WHAT'S BELOW ALWAYS CALL 811 BEFORE YOU DIG
www.callsunshine.com

REVISIONS		
DATE	BY	DESCRIPTION

BOWMAN NO. 010391-01-002	
DESIGNED BY LBL	DRAWN BY JMB
CHECKED BY GMB	PRINT DATE 04/24/2019
ENGINEER OF RECORD L. LEONARD, P.E. NO. 61737	

Bowman Consulting Group, Ltd.
301 SE Ocean Blvd. Suit 301
Stuart, FL 34994
Phone: (772) 283-1413
www.bowmanconsulting.com
© Bowman Consulting Group, Ltd.

Bowman CONSULTING
Certificate of Authorization License No. 30462

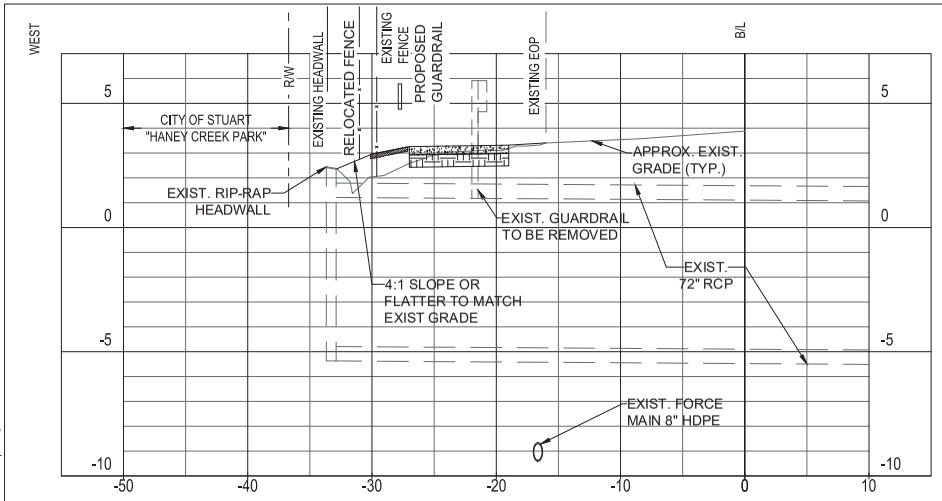
CITY OF STUART

PROJECT NAME	FINANCIAL PROJECT ID
NW DIXIE HIGHWAY SIDEWALK EXTENSION	440020-1-58-01
	CITY OF STUART PROJECT NO.

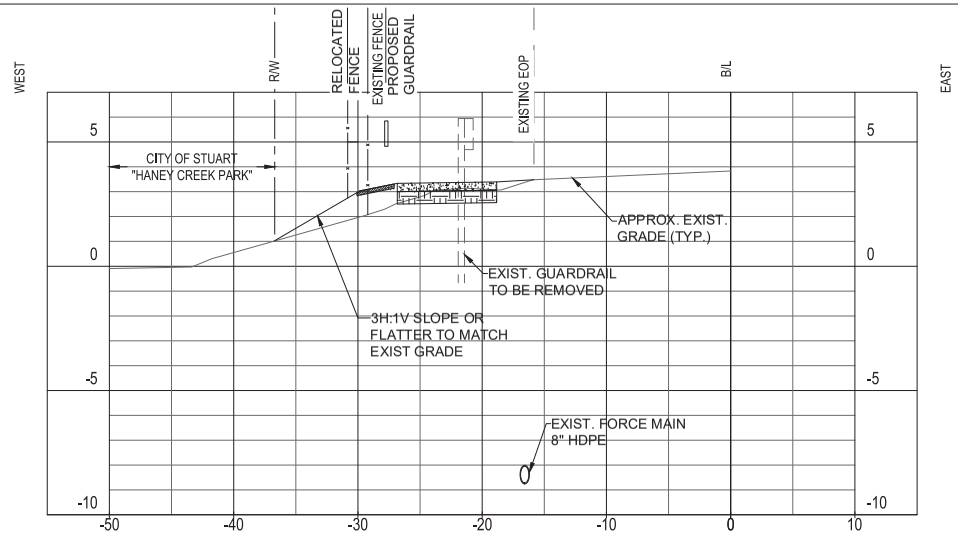
CROSS SECTIONS

SHEET NO. 18

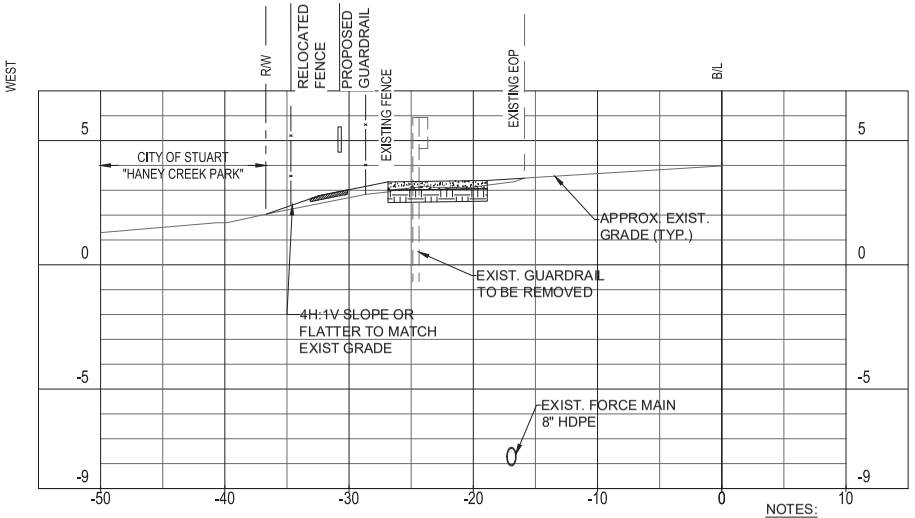
P:\010391 - COS Dixie Highway Sidewalk\010391-01-002 (ENG) - COS Dixie Highway Sidewalk\Engineering\Engineering Plans\Dixie Hwy Cross Sections 15-24.dwg 18 vfeola Apr 24,2019-10:04am



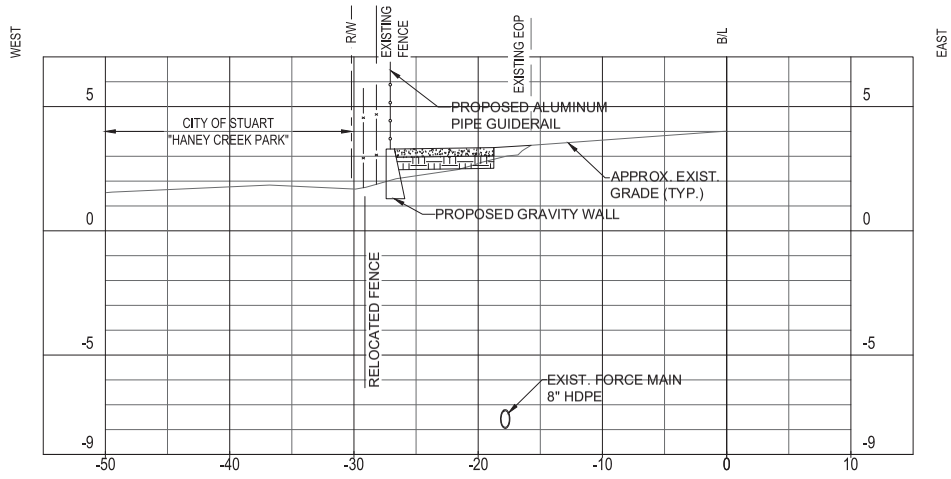
6+75
VERTICAL SCALE: 1"=5'
HORIZONTAL SCALE: 1"=10'



7+00
VERTICAL SCALE: 1"=5'
HORIZONTAL SCALE: 1"=10'



7+50
VERTICAL SCALE: 1"=5'
HORIZONTAL SCALE: 1"=10'



8+00
VERTICAL SCALE: 1"=5'
HORIZONTAL SCALE: 1"=10'

NOTES:

1. ELEVATIONS SHOWN HEREON ARE REFERENCED TO NAVD88.
2. GRAVITY WALL - FDOT INDEX 400-011 (SCHEME 1)
3. ALUMINUM PIPE GUIDERAIL - FDOT INDEX 515-070 (FOR GRADES 0% TO 5%)

811 KNOW WHAT'S BELOW ALWAYS CALL 811 BEFORE YOU DIG
www.callsunshine.com

FINAL DESIGN
(FOR CONSTRUCTION)

REVISIONS		
DATE	BY	DESCRIPTION

BOWMAN NO. 010391-01-002	
DESIGNED BY LBL	DRAWN BY JMB
CHECKED BY GMB	PRINT DATE 04/24/2019
ENGINEER OF RECORD L. LEONARD, P.E. NO. 61737	

Bowman Consulting Group, Ltd.
301 SE Ocean Blvd. Suit 301
Stuart, FL 34994
Phone: (772) 283-1413
www.bowmanconsulting.com
©
Bowman Consulting Group, Ltd.

Bowman CONSULTING
Certificate of Authorization License No. 30462

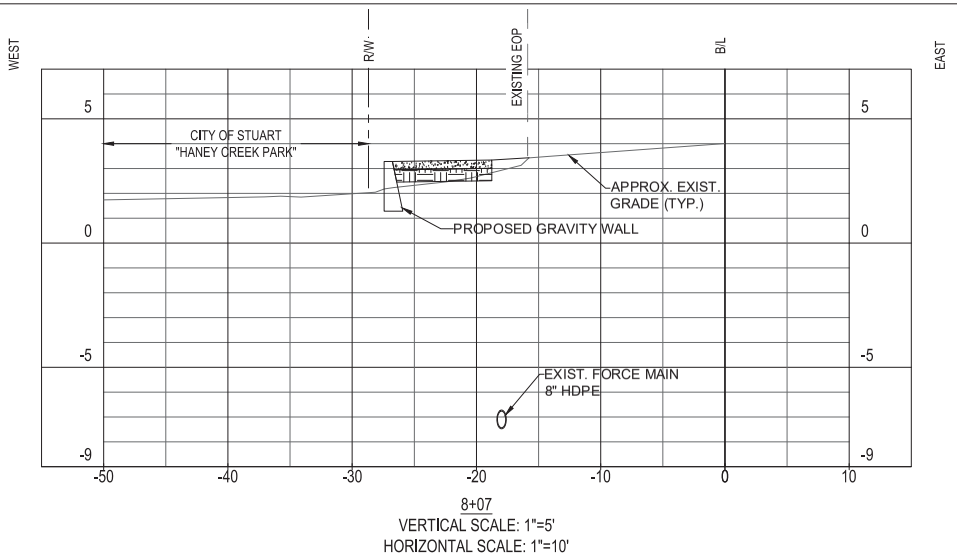
CITY OF STUART

PROJECT NAME	FINANCIAL PROJECT ID
NW DIXIE HIGHWAY SIDEWALK EXTENSION	440020-1-58-01
	CITY OF STUART PROJECT NO.

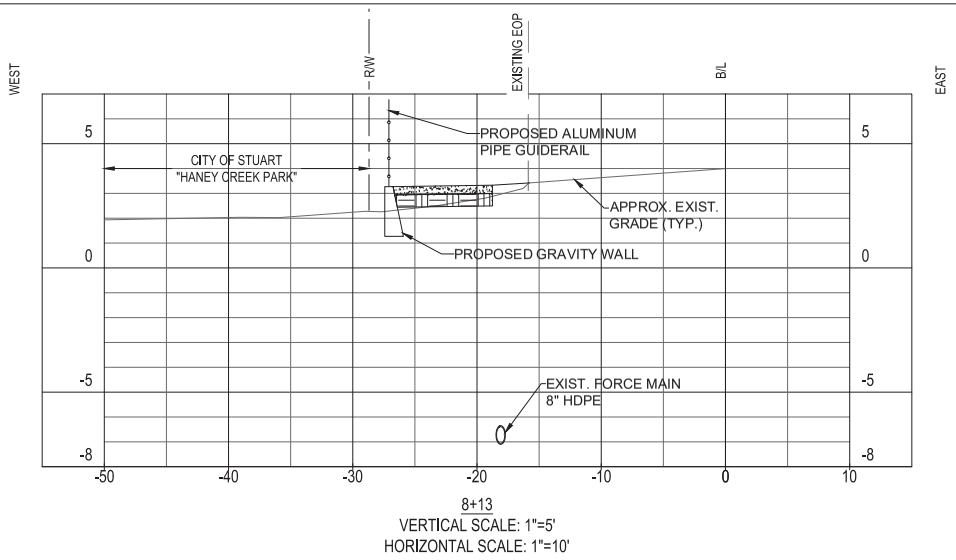
CROSS SECTIONS

SHEET NO.
19

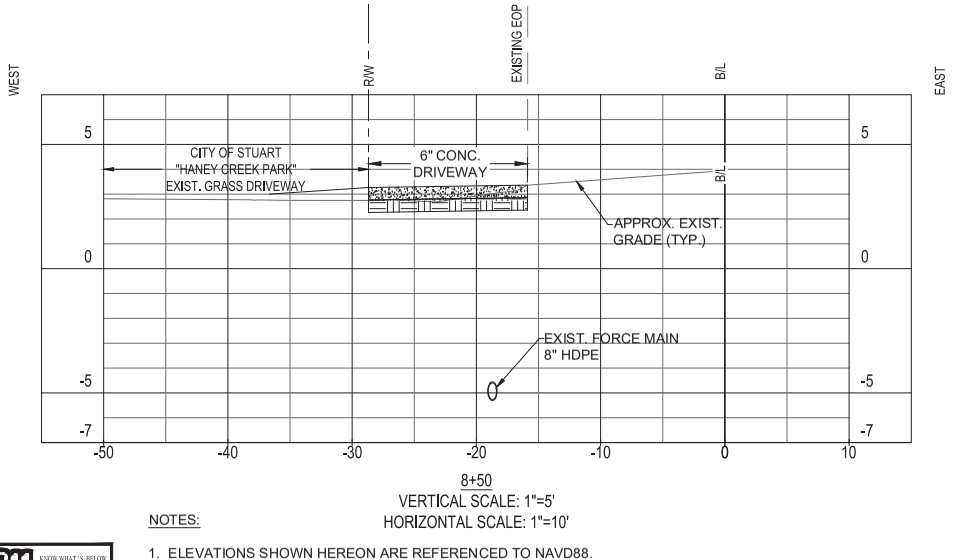
P:\010391 - COS Dixie Highway Sidewalk\010391-01-002 (ENG) - COS Dixie Highway Sidewalk\Engineering\Engineering Plans\Dixie Hwy Cross Sections 15-24.dwg 19 vfeols Apr 24,2019-10:04am



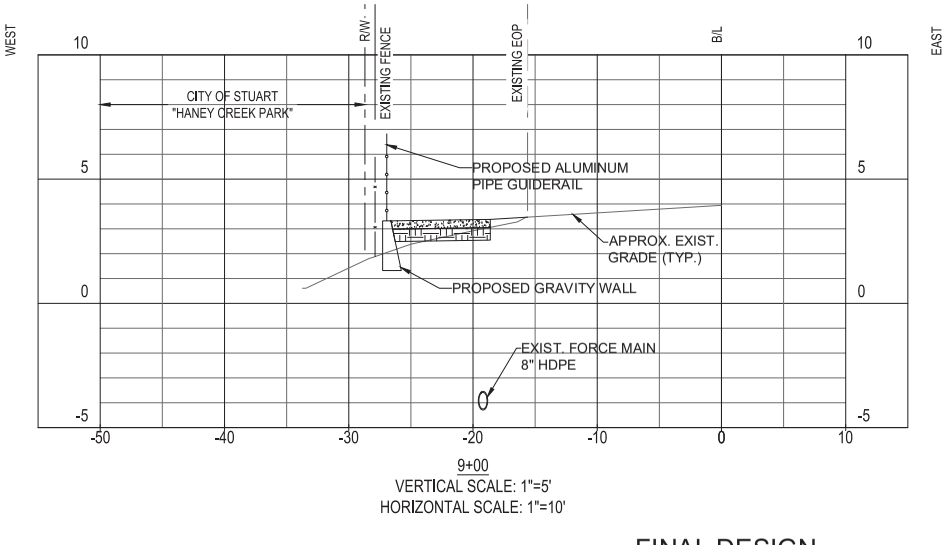
8+07
VERTICAL SCALE: 1"=5'
HORIZONTAL SCALE: 1"=10'



8+13
VERTICAL SCALE: 1"=5'
HORIZONTAL SCALE: 1"=10'



8+50
VERTICAL SCALE: 1"=5'
HORIZONTAL SCALE: 1"=10'



9+00
VERTICAL SCALE: 1"=5'
HORIZONTAL SCALE: 1"=10'

NOTES:

1. ELEVATIONS SHOWN HEREON ARE REFERENCED TO NAVD88.
2. GRAVITY WALL - FDOT INDEX 400-011 (SCHEME 1)
3. ALUMINUM PIPE GUIDERAIL - FDOT INDEX 515-070 (FOR GRADES 0% TO 5%)

811 KNOW WHAT'S BELOW ALWAYS CALL 811 BEFORE YOU DIG
www.callsunshine.com

FINAL DESIGN
(FOR CONSTRUCTION)

REVISIONS		
DATE	BY	DESCRIPTION

BOWMAN NO. 010391-01-002	
DESIGNED BY LBL	DRAWN BY JMB
CHECKED BY GMB	PRINT DATE 04/24/2019
ENGINEER OF RECORD L. LEONARD, P.E. NO. 61737	

Bowman Consulting Group, Ltd.
301 SE Ocean Blvd. Suit 301
Stuart, FL 34994
Phone: (772) 283-1413
www.bowmanconsulting.com ©
Bowman Consulting Group, Ltd.

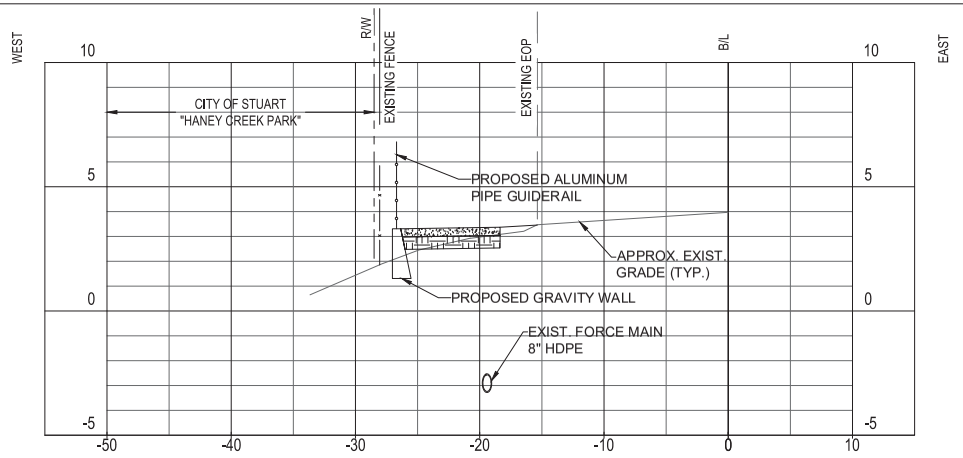
Bowman CONSULTING
Certificate of Authorization License No. 30462

CITY OF STUART	
PROJECT NAME	FINANCIAL PROJECT ID
NW DIXIE HIGHWAY SIDEWALK EXTENSION	440020-1-58-01
	CITY OF STUART PROJECT NO.

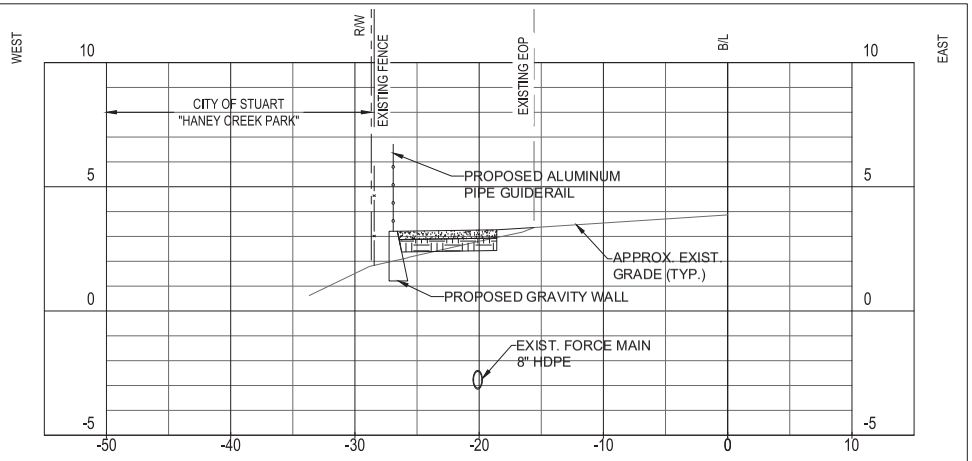
CROSS SECTIONS

SHEET NO. 20

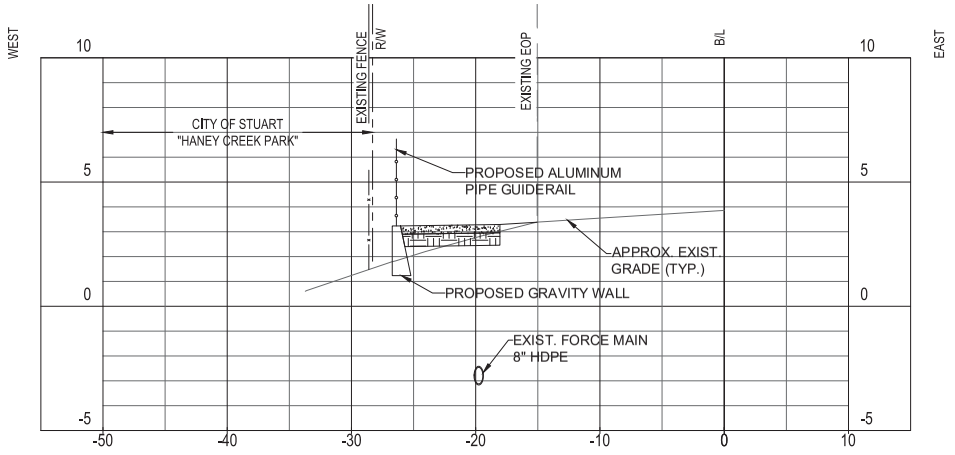
P:\010391 - COS Dixie Highway Sidewalk\010391-01-002 (ENG) - COS Dixie Highway Sidewalk\Engineering\Engineering Plans\Dixie Hwy Cross Sections 15-24.dwg 20 vfeola Apr 24,2019-10:05am



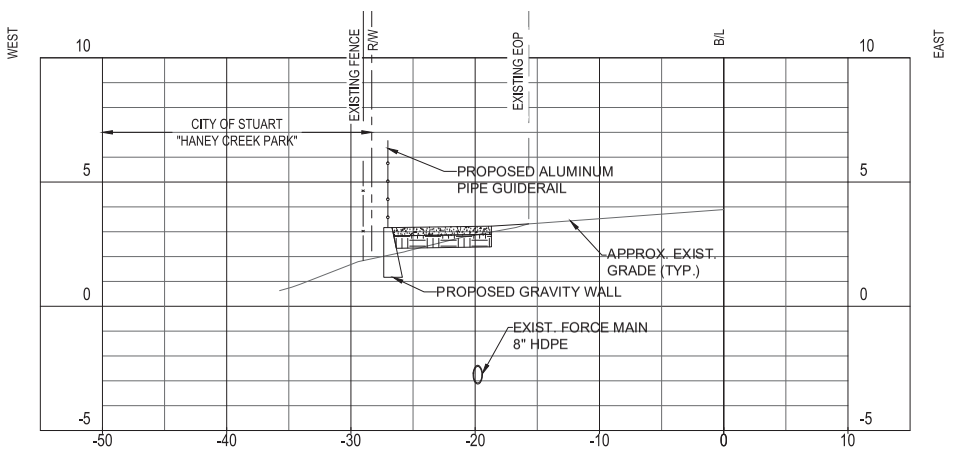
9+50
VERTICAL SCALE: 1"=5'
HORIZONTAL SCALE: 1"=10'



10+00
VERTICAL SCALE: 1"=5'
HORIZONTAL SCALE: 1"=10'



10+50
VERTICAL SCALE: 1"=5'
HORIZONTAL SCALE: 1"=10'



11+00
VERTICAL SCALE: 1"=5'
HORIZONTAL SCALE: 1"=10'

NOTES:

1. ELEVATIONS SHOWN HEREON ARE REFERENCED TO NAVD88.
2. GRAVITY WALL - FDOT INDEX 400-011 (SCHEME 1)
3. ALUMINUM PIPE GUIDERAIL - FDOT INDEX 515-070 (FOR GRADES 0% TO 5%)

811 KNOW WHAT'S BELOW ALWAYS CALL 811 BEFORE YOU DIG
www.callsunshine.com

FINAL DESIGN
(FOR CONSTRUCTION)

REVISIONS		
DATE	BY	DESCRIPTION

BOWMAN NO. 010391-01-002	
DESIGNED BY LBL	DRAWN BY JMB
CHECKED BY GMB	PRINT DATE 04/24/2019
ENGINEER OF RECORD L. LEONARD, P.E. NO. 61737	

Bowman Consulting Group, Ltd.
301 SE Ocean Blvd. Suit 301
Stuart, FL 34994
Phone: (772) 283-1413
www.bowmanconsulting.com
© Bowman Consulting Group, Ltd.

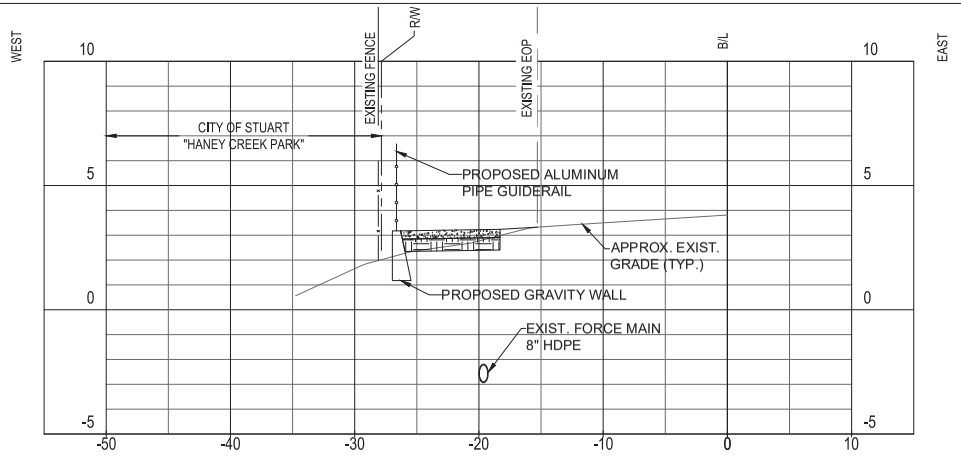
Bowman CONSULTING
Certificate of Authorization License No. 30462

CITY OF STUART	
PROJECT NAME	FINANCIAL PROJECT ID
NW DIXIE HIGHWAY SIDEWALK EXTENSION	440020-1-58-01
	CITY OF STUART PROJECT NO.

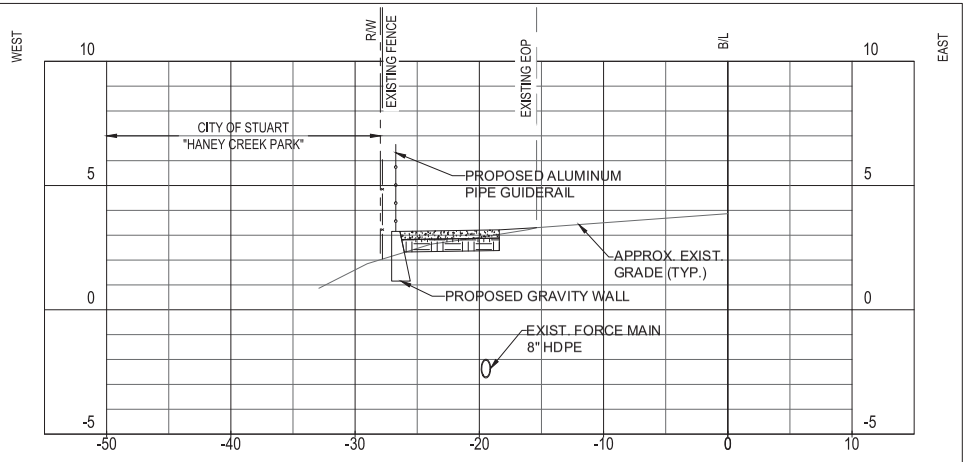
CROSS SECTIONS

SHEET NO. 21

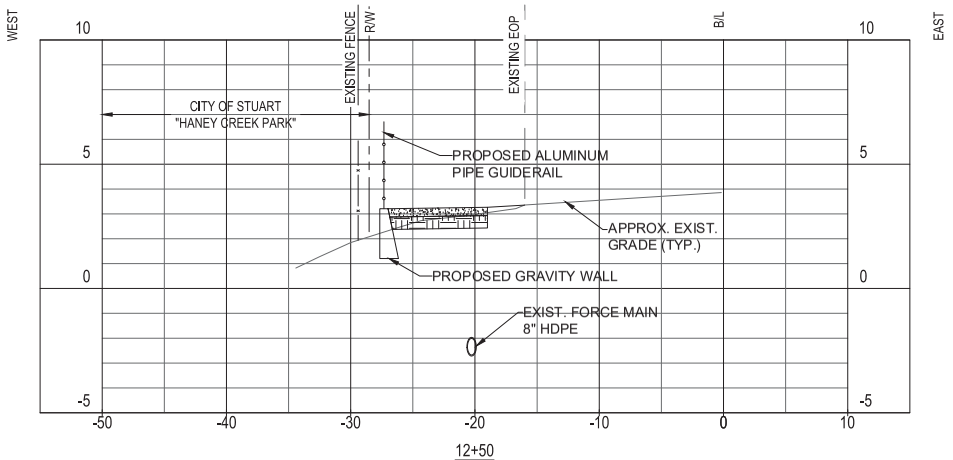
P:\010391 – COS Dixie Highway Sidewalk\010391-01-002 (ENG) – COS Dixie Highway Sidewalk\Engineering\Engineering Plans\Dixie Hwy Cross Sections 15-24.dwg 21 vfields Apr 24,2019-10:05am



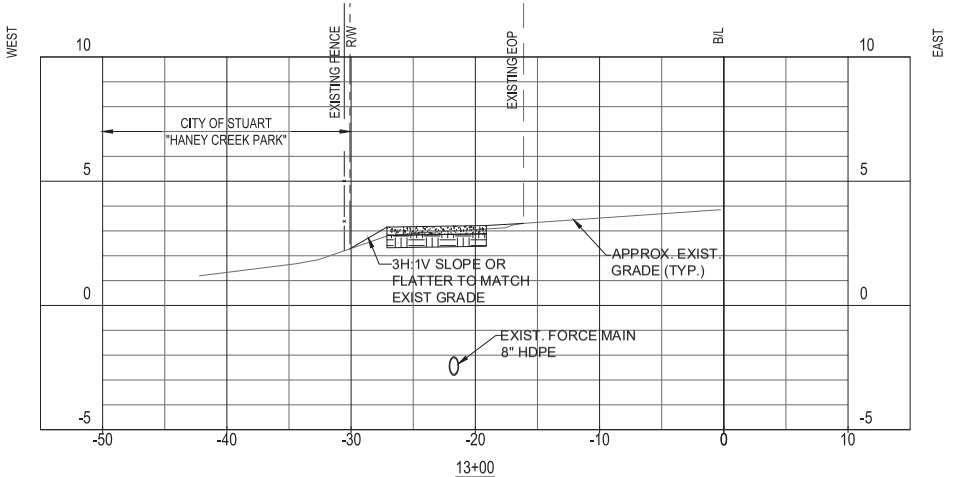
11+50
VERTICAL SCALE: 1"=5'
HORIZONTAL SCALE: 1"=10'



12+00
VERTICAL SCALE: 1"=5'
HORIZONTAL SCALE: 1"=10'



12+50
VERTICAL SCALE: 1"=5'
HORIZONTAL SCALE: 1"=10'



13+00
VERTICAL SCALE: 1"=5'
HORIZONTAL SCALE: 1"=10'

NOTES:

1. ELEVATIONS SHOWN HEREON ARE REFERENCED TO NAVD88.
2. GRAVITY WALL - FDOT INDEX 400-011 (SCHEME 1)
3. ALUMINUM PIPE GUIDERAIL - FDOT INDEX 515-070 (FOR GRADES 0% TO 5%)

811 KNOW WHAT'S BELOW ALWAYS CALL 811 BEFORE YOU DIG
Dial 811 or 1-800-432-4770
www.callsunshine.com

FINAL DESIGN
(FOR CONSTRUCTION)

REVISIONS		
DATE	BY	DESCRIPTION

BOWMAN NO. 010391-01-002	
DESIGNED BY LBL	DRAWN BY JMB
CHECKED BY GMB	PRINT DATE 04/24/2019
ENGINEER OF RECORD L. LEONARD, P.E. NO. 61737	

Bowman Consulting Group, Ltd.
301 SE Ocean Blvd. Suit 301
Stuart, FL 34994
Phone: (772) 283-1413
www.bowmanconsulting.com ©
Bowman Consulting Group, Ltd.

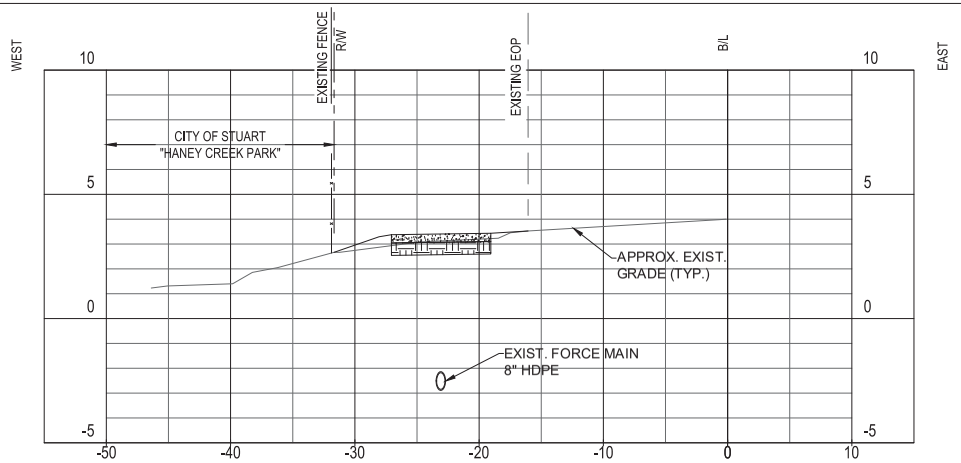
Bowman CONSULTING
Certificate of Authorization License No. 30462

CITY OF STUART	
PROJECT NAME	FINANCIAL PROJECT ID
NW DIXIE HIGHWAY SIDEWALK EXTENSION	440020-1-58-01
	CITY OF STUART PROJECT NO.

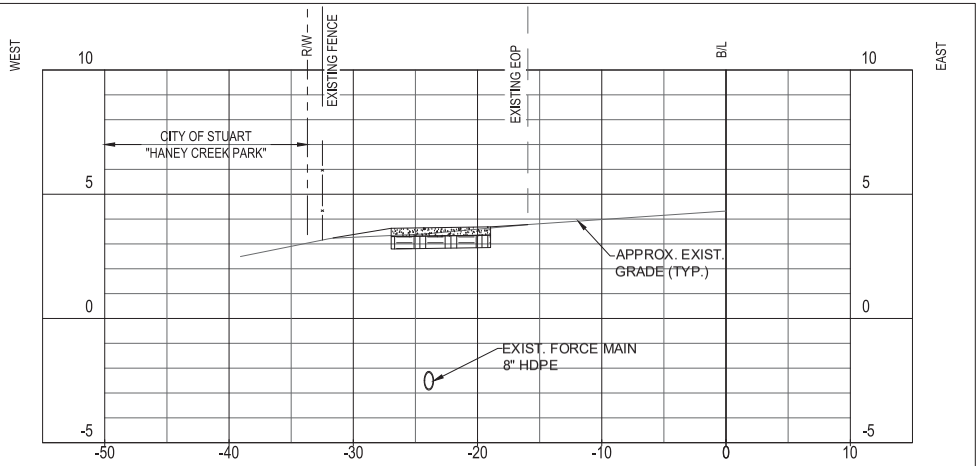
CROSS SECTIONS

SHEET NO. 22

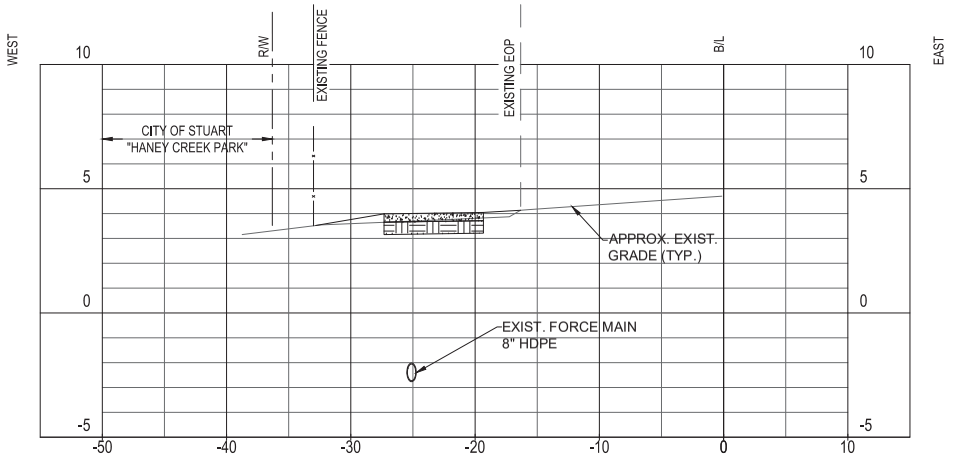
P:\010391 – COS Dixie Highway Sidewalk\010391–01–002 (ENG) – COS Dixie Highway Sidewalk\Engineering\Engineering Plans\Dixie Hwy Cross Sections 15–24.dwg 22 sheets Apr 24,2019–10:05am



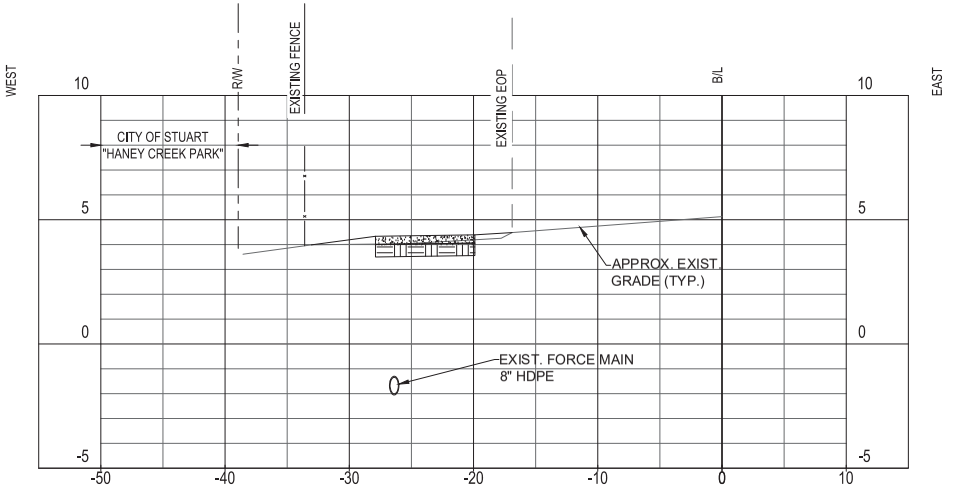
13+50
VERTICAL SCALE: 1"=5'
HORIZONTAL SCALE: 1"=10'



14+00
VERTICAL SCALE: 1"=5'
HORIZONTAL SCALE: 1"=10'



14+50
VERTICAL SCALE: 1"=5'
HORIZONTAL SCALE: 1"=10'



15+00
VERTICAL SCALE: 1"=5'
HORIZONTAL SCALE: 1"=10'

811 KNOW WHAT'S BELOW ALWAYS CALL 811 BEFORE YOU DIG
www.callsunshine.com

NOTE:

1. ELEVATIONS SHOWN HEREON ARE REFERENCED TO NAVD88.

FINAL DESIGN
(FOR CONSTRUCTION)

REVISIONS		
DATE	BY	DESCRIPTION

BOWMAN NO. 010391-01-002
DESIGNED BY LBL | DRAWN BY JMB
CHECKED BY GMB | PRINT DATE 04/24/2019
ENGINEER OF RECORD
L. LEONARD, P.E. NO. 61737

Bowman Consulting Group, Ltd.
301 SE Ocean Blvd. Suit 301
Stuart, FL 34994
Phone: (772) 283-1413
www.bowmanconsulting.com ©
Bowman Consulting Group, Ltd.

Bowman CONSULTING
Certificate of Authorization License No. 30462

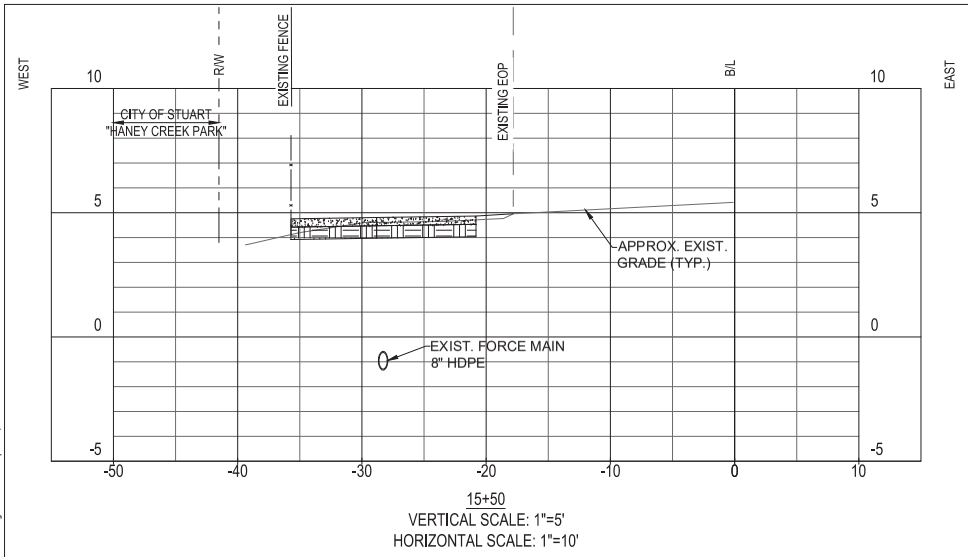
CITY OF STUART

PROJECT NAME	FINANCIAL PROJECT ID
NW DIXIE HIGHWAY SIDEWALK EXTENSION	440020-1-58-01
	CITY OF STUART PROJECT NO.

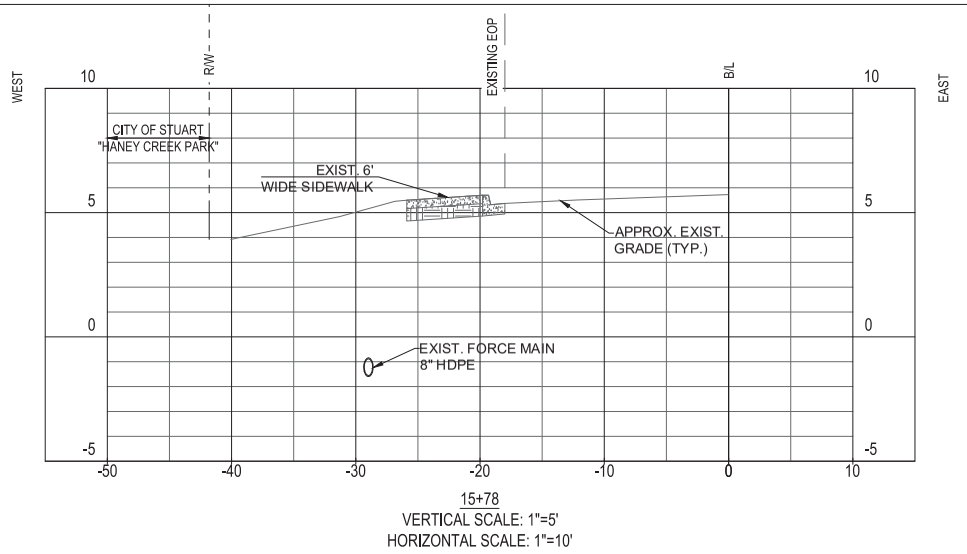
CROSS SECTIONS

SHEET NO. 23

P:\010391 - COS Dixie Highway Sidewalk\010391-01-002 (ENG) - COS Dixie Highway Sidewalk\Engineering\Engineering Plans\Dixie Hwy Cross Sections 15-24.dwg 23, vhoits Apr 24,2019--10:05am



15+50
VERTICAL SCALE: 1"=5'
HORIZONTAL SCALE: 1"=10'



15+78
VERTICAL SCALE: 1"=5'
HORIZONTAL SCALE: 1"=10'

NOTE:

1. ELEVATIONS SHOWN HEREON ARE REFERENCED TO NAVD88.

811 KNOW WHAT'S BELOW ALWAYS CALL 811 BEFORE YOU DIG
Dial 811 or 1-800-432-4770
www.callsunshine.com

FINAL DESIGN
(FOR CONSTRUCTION)

REVISIONS		
DATE	BY	DESCRIPTION

BOWMAN NO. 010391-01-002	
DESIGNED BY LBL	DRAWN BY JMB
CHECKED BY GMB	PRINT DATE 04/24/2019
ENGINEER OF RECORD L. LEONARD, P.E. NO. 61737	

Bowman Consulting Group, Ltd.
301 SE Ocean Blvd. Suit 301
Stuart, FL 34994
Phone: (772) 283-1413
www.bowmanconsulting.com ©
Bowman Consulting Group, Ltd.

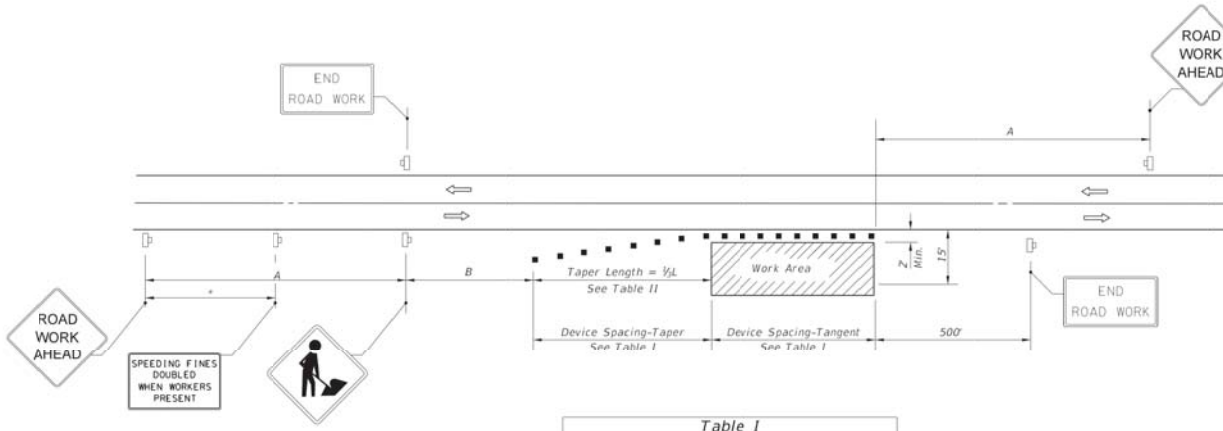
Bowman CONSULTING
Certificate of Authorization License No. 30462

CITY OF STUART	
PROJECT NAME	FINANCIAL PROJECT ID
NW DIXIE HIGHWAY SIDEWALK EXTENSION	440020-1-58-01
	CITY OF STUART PROJECT NO.

CROSS SECTIONS

SHEET NO. 24

P:\010391 - COS Dixie Highway Sidewalk\010391-01-002 (ENG) - COS Dixie Highway Sidewalk\Engineering\Engineering Plans\Dixie Hwy Cross Sections 15-24.dwg 24 vhoto Apr 24,2019--10:05am



DISTANCE BETWEEN SIGNS

Speed	Spacing (ft.)	
	A	B
40 mph or less	200	200
45 mph	350	350
50 mph or greater	500	500

*Midway between signs.

Table I
Device Spacing

Speed (mph)	Max. Distance Between Devices (ft.)			
	Cones or Tubular Markers		Type I or Type II Barricades or Vertical Panels or Drums	
	Taper	Tangent	Taper	Tangent
25	25	50	25	50
30 to 45	25	50	30	50
50 to 70	25	50	50	100

Table II
Taper Length - Shoulder

Speed (mph)	½L (ft.)			Notes
	8' Shldr.	10' Shldr.	12' Shldr.	
25	28	35	42	
30	40	50	60	$L=\frac{WS^2}{60}$
35	55	68	82	
40	72	90	107	
45	120	150	180	
50	133	167	200	
55	147	183	220	
60	160	200	240	L=WS
65	173	217	260	
70	187	233	280	

8' minimum shoulder width

½L = Length of shoulder taper in feet

W = Width of total shoulder in feet (combined paved and unpaved width)

S = Posted speed limit (mph)

SYMBOLS

- Work Area
- Channelizing Device (See Index 102-600)
- Work Zone Sign
- Lane Identification + Direction of Traffic

GENERAL NOTES

1. When four or more work vehicles enter the through traffic lanes in a one hour period or less (excluding establishing and terminating the work area), the advanced FLAGGER sign shall be substituted for the WORKERS sign. For location of flaggers and FLAGGER signs, see Index 102-603.
2. SHOULDER WORK sign may be used as an alternate to the WORKER symbol sign only on the side where the shoulder work is being performed.
3. When a side road intersects the highway within the TTC zone, additional TTC devices shall be placed in accordance with other applicable TCZ Indexes.
4. For general TCZ requirements and additional information, refer to Index 102-600.

DURATION NOTES

1. Signs and channelizing devices may be omitted if all of the following conditions are met:
   a. Work operations are 60 minutes or less.
   b. Vehicles in the work area have high-intensity, rotating, flashing, oscillating, or strobe lights operating.

CONDITIONS

WHERE ANY VEHICLE, EQUIPMENT, WORKERS OR THEIR ACTIVITIES ENCROACH THE AREA CLOSER THAN 15' BUT NOT CLOSER THAN 2' TO THE EDGE OF TRAVEL WAY.

NOTE:

CONTRACTOR SHALL USE DILIGENT CAUTION TO COMPLETE THE WORK WITHIN THE CITY RIGHT-OF-WAY AND ON CITY OWNED PROPERTY AS DESCRIBED IN THE PLANS. IN NO CASE SHALL THE CONTRACTOR ENCROACH ON PRIVATELY OWNED PROPERTY.

FINAL DESIGN
(FOR CONSTRUCTION)

LAST REVISION	REVISION	DESCRIPTION:			INDEX	SHEET
11/01/17			FDOT FY 2019-20 STANDARD PLANS	TWO-LANE, TWO-WAY, WORK ON SHOULDER	102-602	1 of 1

811 KNOW WHAT'S BELOW ALWAYS CALL 811 BEFORE YOU DIG www.callsunshine.com

REVISIONS		
DATE	BY	DESCRIPTION

BOWMAN NO. 010391-01-002
DESIGNED BY LBL | DRAWN BY JMB
CHECKED BY GMB | PRINT DATE 04/24/2019
ENGINEER OF RECORD L. LEONARD, P.E. NO. 61737

Bowman Consulting Group, Ltd.
301 SE Ocean Blvd. Suit 301
Stuart, FL 34994
Phone: (772) 283-1413
www.bowmanconsulting.com ©
Bowman Consulting Group, Ltd.

Bowman CONSULTING
Certificate of Authorization License No. 30462

CITY OF STUART
PROJECT NAME: NW DIXIE HIGHWAY SIDEWALK EXTENSION
FINANCIAL PROJECT ID: 440020-1-58-01
CITY OF STUART PROJECT NO.

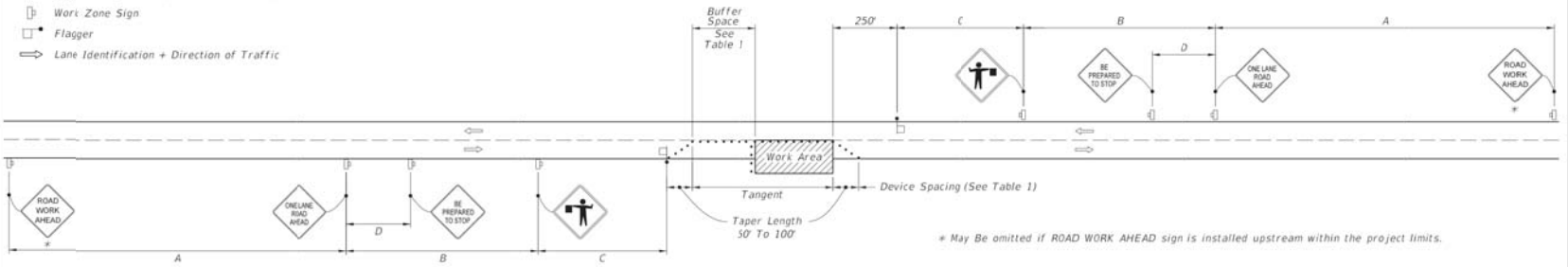
TRAFFIC CONTROL PLAN DETAILS

SHEET NO. 25

P:\010391 - COS Dixie Highway Sidewalk\010391-01-002 (ENG) - COS Dixie Highway Sidewalk\Engineering\Engineering Plans\Dixie Hwy 2-4_6-8_25-28.dwg 25 TC-3ET vtesla Apr 24,2019 - 9:57am

SYMBOLS:

- Work Area
- Channelizing Device (See Index 102-600)
- Work Zone Sign
- Flagger
- Lane Identification + Direction of Traffic



* May Be omitted if ROAD WORK AHEAD sign is installed upstream within the project limits.

WITHOUT TEMPORARY RAISED RUMBLE STRIPS

GENERAL NOTES:

1. Special Conditions may be required in accordance with these notes and the following sheets:
   - A. Railroad Crossings:
     - a. If an active railroad crossing is located closer to the Work Area than the queue length plus 300 feet, extend the Buffer Space as shown on Sheet 3.
     - b. If the queuing of vehicles across an active railroad crossing cannot be avoided, provide a uniformed traffic control officer or flagger at the highway-rail grade crossing to prevent vehicles from stopping within the highway-rail grade crossing, even if automatic train warning devices are in place.
   - B. If the Work Area encroaches on the Centerline, use the Layout for Temporary Lane Shift to Shoulder on Sheet 3 only if the Existing Paved Shoulder width is sufficient to provide for an 11' lane between the Work Area and the Edge of Existing Paved Shoulder. Reduce the posted speed when appropriate.
2. Temporary Raised Rumble Strips:
   - A. Use when both of the following conditions are met concurrently:
     - a. Existing Posted Speed is 55 mph or greater;
     - b. Work duration is greater than 60 minutes.
   - B. Use a consistent Strip color throughout the work zone.
   - C. Place each Rumble Strip Set transversely across the lane at locations shown.
   - D. Use Option 1 or Option 2 as shown on Sheet 2. Use only one option throughout work zone.
3. Additional one-way control may be provided by the following means:
   - A. Flag-carrying vehicle;
   - B. Official vehicle;
   - C. Pilot vehicles;
   - D. Traffic signals.

   When flaggers are the sole means of one-way control, the flaggers must be in sight of each other or in direct communication at all times.
4. When a side road intersects the highway within the TTC zone, place additional TTC devices in accordance with other applicable TCZ Indexes.
5. The two channelizing devices directly in front of the work area may be omitted provided vehicles in the work area have high-intensity rotating, flashing, oscillating, or strobe lights operating.
6. When Buffer Space cannot be attained due to geometric constraints, use the greatest attainable length, not less than 200 ft, for posted speeds greater than 25 mph.
7. ROAD WORK AHEAD and the BE PREPARED TO STOP signs may be omitted if all of the following conditions are met:
   - A. Work operations are 60 minutes or less.
   - B. Speed limit is 45 mph or less.
   - C. There are no sight obstructions to vehicles approaching the work area for a distance equal to the Buffer Space shown in Table 1.
   - D. Vehicles in the work area have high-intensity, rotating, flashing, oscillating, or strobe lights operating.
   - E. Volume and complexity of the roadway has been considered.
   - F. If a railroad crossing is present, vehicles will not queue across rail tracks.
   - G. AFADs are not in use.
8. See Index 102-600 for general TCZ requirements and additional information.
9. Automated Flagger Assistance Devices (AFADs) may be used in accordance with Specifications Section 102, 990 and the APL vendor drawings.

NOTE:

CONTRACTOR SHALL USE DILIGENT CAUTION TO COMPLETE THE WORK WITHIN THE CITY RIGHT-OF-WAY AND ON CITY OWNED PROPERTY AS DESCRIBED IN THE PLANS. IN NO CASE SHALL THE CONTRACTOR ENCROACH ON PRIVATELY OWNED PROPERTY.

TABLE 1

Posted Speed	DEVICE SPACING: Maximum Spacing of Cones or Tubular Markers, On a Taper	Maximum Spacing of Cones or Tubular Markers, On a Tangent	Maximum Spacing of Type I or Type II Barricades/Panels/Drums, On a Taper	Maximum Spacing of Type I or Type II Barricades/Panels/Drums, On a Tangent	Distance Between Signs, A	B	C	D	Buffer Space
25	20'	50'	20'	50'	200'	200'	200'	100'	155'
30	20'	50'	20'	50'	200'	200'	200'	100'	200'
35	20'	50'	20'	50'	200'	200'	200'	100'	250'
40	20'	50'	20'	50'	200'	200'	200'	100'	305'
45	20'	50'	20'	50'	350'	350'	350'	175'	360'
50	20'	50'	20'	100'	500'	500'	500'	250'	425'
55	20'	50'	20'	100'	2640'	1500'	1000'	500'	495'
60	20'	50'	20'	100'	2640'	1500'	1000'	500'	570'
65	20'	50'	20'	100'	2640'	1500'	1000'	500'	645'
70	20'	50'	20'	100'	2640'	1500'	1000'	500'	730'

FINAL DESIGN
(FOR CONSTRUCTION)

CONDITIONS

WHERE ANY VEHICLE, EQUIPMENT, WORKERS OR THEIR ACTIVITIES ENCROACH THE AREA BETWEEN THE CENTERLINE AND A LINE 2' OUTSIDE THE EDGE OF TRAVEL WAY.

LAST REVISION	DESCRIPTION:	FDOT	FY 2019-20 STANDARD PLANS	TWO-LANE, TWO-WAY, WORK WITHIN THE TRAVEL WAY	INDEX	SHEET
11/01/17	REVISION				102-603	1 of 3

811 KNOW WHAT'S BELOW ALWAYS CALL 811 BEFORE YOU DIG — www.callsunshine.com

REVISIONS		
DATE	BY	DESCRIPTION

BOWMAN NO. 010391-01-002
DESIGNED BY LBL | DRAWN BY JMB
CHECKED BY GMB | PRINT DATE 04/24/2019
ENGINEER OF RECORD L. LEONARD, P.E. NO. 61737

Bowman Consulting Group, Ltd.
301 SE Ocean Blvd. Suit 301
Stuart, FL 34994
Phone: (772) 283-1413
www.bowmanconsulting.com ©
Bowman Consulting Group, Ltd.

Bowman CONSULTING
Certificate of Authorization License No. 30462

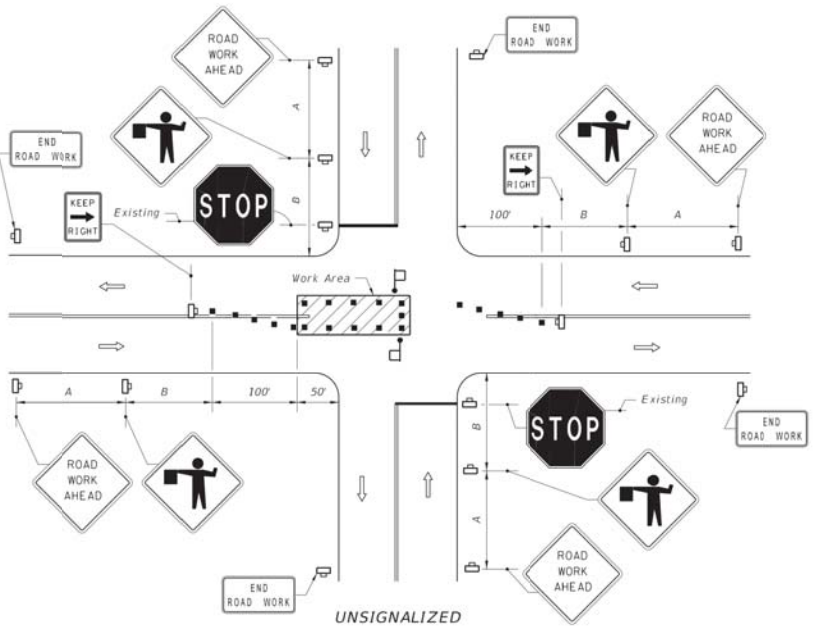
CITY OF STUART

PROJECT NAME	FINANCIAL PROJECT ID
NW DIXIE HIGHWAY SIDEWALK EXTENSION	440020-1-58-01
	CITY OF STUART PROJECT NO.

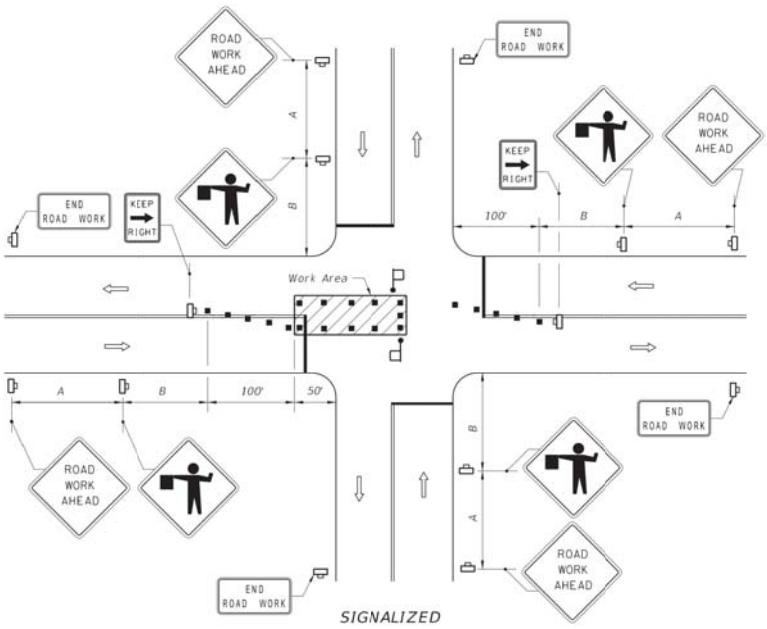
TRAFFIC CONTROL PLAN DETAILS

SHEET NO. 26

P:\010391 - COS Dixie Highway Sidewalk\010391-01-002 (ENG) - COS Dixie Highway Sidewalk\Engineering\Engineering Plans\Dixie Hwy 2-4_6-8_25-28.dwg 26 TC-DET vfeola Apr 24,2019 - 9:57am



UNSIGNALIZED



SIGNALIZED

SYMBOLS

- Work Area
- Channelizing Device (See Index 102-600)
- Work Zone Sign
- Flagger
- Stop Bar
- Lane Identification + Direction of Traffic

GENERAL NOTES

1. The FLAGGER legend sign may be substituted for the symbol sign.
2. When vehicles in a parking zone block the line of sight to TCZ signs, the signs shall be post mounted and located in accordance with Index 700-101.
3. If the work space extends across a crosswalk, the crosswalk should be closed using the information in Index 102-660.
4. Flaggers shall be located where they can control more than one direction of traffic.

   Flaggers shall be in sight of each other or in direct communication at all times.
5. Maximum spacing between channelizing devices shall be not greater than 20'.
6. Temporary signal phasing modifications are to be approved by the District Traffic Operations Engineer prior to the beginning of work.
7. For general TCZ requirements and additional information, refer to Index 102-600.
8. For unsignalized intersections, use Temporary Raised Rumble Strips in accordance with Index 102-603. Placement of Rumble Strips and additional signs should begin at FLAGGER sign location.

DURATION NOTES

1. ROAD WORK AHEAD AND END ROAD WORK sign may be omitted if all of the following conditions are met:
   a. Work operations are 60 minutes or less.
   b. Speed is 45 mph or less.
   c. No sight obstructions to vehicles approaching the work area for a distance equal to A plus B.
   d. Vehicles in the work area have high-intensity, rotating, flashing, oscillating, or strobe lights operating.
   e. Volume and complexity of the roadway has been considered.

NOTE:

CONTRACTOR SHALL USE DILIGENT CAUTION TO COMPLETE THE WORK WITHIN THE CITY RIGHT-OF-WAY AND ON CITY OWNED PROPERTY AS DESCRIBED IN THE PLANS. IN NO CASE SHALL THE CONTRACTOR ENCROACH ON PRIVATELY OWNED PROPERTY.

FINAL DESIGN
(FOR CONSTRUCTION)

DISTANCE BETWEEN SIGNS		
Speed	Spacing (ft.)	
	A	B
40 mph or less	200	200
45 mph	350	350

CONDITIONS

WHERE ANY VEHICLE, EQUIPMENT, WORKERS OR THEIR ACTIVITIES ENCROACH ON THE PAVEMENT REQUIRING THE CLOSURE OF A PORTION OF ONE OR MORE TRAFFIC LANES IN AN INTERSECTION.

LAST REVISION	DESCRIPTION:	FDOT FY 2019-20 STANDARD PLANS	TWO-LANE, TWO-WAY, WORK IN INTERSECTION	INDEX	SHEET
11/01/17				102-604	1 of 1

811 KNOW WHAT'S BELOW ALWAYS CALL 811 BEFORE YOU DIG — www.callsunshine.com

REVISIONS		
DATE	BY	DESCRIPTION

BOWMAN NO. 010391-01-002
DESIGNED BY LBL | DRAWN BY JMB
CHECKED BY GMB | PRINT DATE 04/24/2019
ENGINEER OF RECORD L. LEONARD, P.E. NO. 61737

Bowman Consulting Group, Ltd.
301 SE Ocean Blvd. Suit 301
Stuart, FL 34994
Phone: (772) 283-1413
www.bowmanconsulting.com ©
Bowman Consulting Group, Ltd.

Bowman CONSULTING
Certificate of Authorization License No. 30462

CITY OF STUART

PROJECT NAME	FINANCIAL PROJECT ID
NW DIXIE HIGHWAY SIDEWALK EXTENSION	440020-1-58-01
	CITY OF STUART PROJECT NO.

TRAFFIC CONTROL PLAN DETAILS

SHEET NO. 27

P:\010391 - COS Dixie Highway Sidewalk\010391-01-002 (ENG) - COS Dixie Highway Sidewalk\Engineering\Engineering Plans\Dixie Hwy 2-4_6-8_25-28.dwg 27 TC-DET vtecio Apr 24,2019 - 9:57am

SYMBOLS

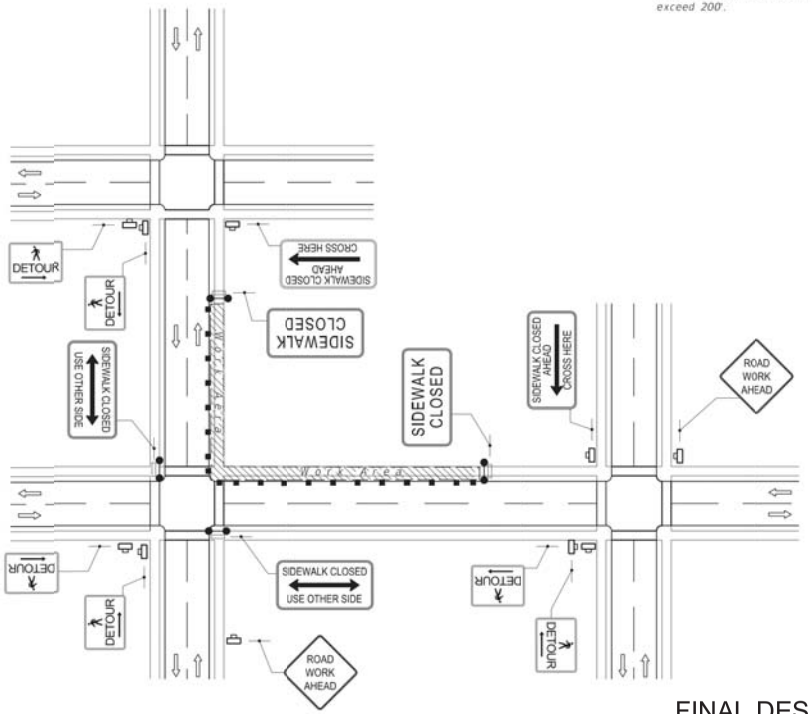
- Work Area
- Channelizing Device
- Work Zone Sign
- CR — Required Locations For Either Temporary Or Permanent Curb Ramps.
- Lane Identification + Direction of Traffic
- Pedestrian Longitudinal Channelizing Device (LCD) with Mounted Work Zone Sign or separate Work Zone Sign
- Pedestrian Longitudinal Channelizing Device (LCD)
- Temporary Sidewalk

GENERAL NOTES:

1. When encroaching work requires a sidewalk closure for 60 minutes or greater, provide an alternate pedestrian route.
2. For spacing of vehicular Channelizing Devices, see applicable vehicular temporary traffic control Indexes.
3. Cover or deactivate pedestrian traffic signal display(s) controlling closed crosswalks.
4. For post mounted signs located near or adjacent to a sidewalk, maintain a minimum 7' clearance from the bottom of the sign panel to the surface of the sidewalk.
5. Provide a 5' wide temporary walkway, except where space restrictions warrant a minimum width of 4'. Provide a 5' x 5' passing space for temporary walkways less than 5' in width at intervals not to exceed 200'.
6. Provide a cross-slope with a maximum value of 0.02 for all temporary walkways.
7. Maintain temporary walkway surfaces and ramps that are stable, firm, slip-resistant, and free of any obstructions or hazards such as holes, debris, mud, construction equipment, and stored material.
8. Remove temporary walkways immediately after reopening of the sidewalk, unless otherwise noted in the plans.
9. Meet the requirements of Index 522-002 for temporary curb ramps.
10. Place pedestrian longitudinal channelizing device(s) across the full width of the closed sidewalk. For temporary walkways, similar to the Sidewalk Diversion, place LCDs to delineate both sides of the temporary walkway.
11. For sidewalk diversions, ensure that there is sufficient R/W for placement of temporary sidewalk and pedestrian longitudinal channelizing devices.

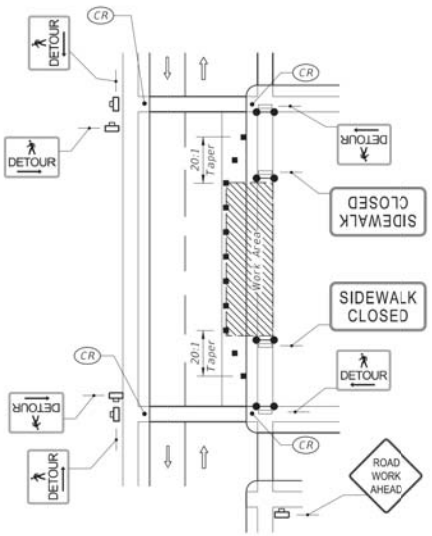
NOTE:

CONTRACTOR SHALL USE DILIGENT CAUTION TO COMPLETE THE WORK WITHIN THE CITY RIGHT-OF-WAY AND ON CITY OWNED PROPERTY AS DESCRIBED IN THE PLANS. IN NO CASE SHALL THE CONTRACTOR ENCROACH ON PRIVATELY OWNED PROPERTY.

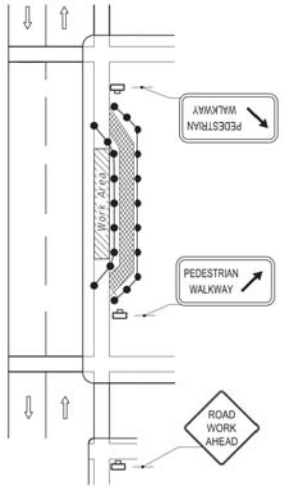


CROSSWALK CLOSURE AND PEDESTRIAN DETOUR

FINAL DESIGN
(FOR CONSTRUCTION)



SIDEWALK DETOUR



SIDEWALK DIVERSION

LAST REVISION	REVISION	DESCRIPTION:	FDOT FY 2019-20 STANDARD PLANS	PEDESTRIAN CONTROL FOR CLOSURE OF SIDEWALKS	INDEX	SHEET
11/01/17					102-660	1 of 1

811 KNOW WHAT'S BELOW ALWAYS CALL 811 BEFORE YOU DIG — www.callsunshine.com

REVISIONS		
DATE	BY	DESCRIPTION

BOWMAN NO. 010391-01-002

DESIGNED BY	DRAWN BY
LBL	JMB
CHECKED BY	PRINT DATE
GMB	04/24/2019

ENGINEER OF RECORD
L. LEONARD, P.E. NO. 61737

Bowman Consulting Group, Ltd.
301 SE Ocean Blvd. Suit 301
Stuart, FL 34994
Phone: (772) 283-1413
www.bowmanconsulting.com ©
Bowman Consulting Group, Ltd.

Bowman CONSULTING
Certificate of Authorization License No. 30462

CITY OF STUART

PROJECT NAME	FINANCIAL PROJECT ID
NW DIXIE HIGHWAY SIDEWALK EXTENSION	440020-1-58-01
	CITY OF STUART PROJECT NO.

TRAFFIC CONTROL PLAN DETAILS

SHEET NO. 28

P:\010391 – COS Dixie Highway Sidewalk\010391-01-002 (ENG) – COS Dixie Highway Sidewalk\Engineering\Engineering Plans\Dixie Hwy 2-4_6-8_25-28.dwg 28 TC-DET vtools Apr 24,2019-9:57am

EXHIBIT B

MARTIN COUNTY PUBLIC WORKS DEPARTMENT

CONTRACT ADMINISTRATION FEE SCHEDULE			
Contract Position	**Billable Hours**	**Rate**	**Project Cost**
Budget & Finance	65	$20.00	$1,300.00
County Attorney	5	$200.00	$1,000.00
Administrative Asst III	20	$18.00	$360.00
Inspector	51	$75.00	$3,825.00
Project Manager (RCS)	90	$90.00	$8,100.00
Project Manager	34	$90.00	$3,060.00
Sr. Project Manager	8	$110.00	$880.00
Sr. Project Engineer	15	$150.00	$2,250.00
	Total Projected Fee*		**$20,775.00**

*Fee includes manhours and expenses paid during pre-construction, construction, and post-construction phases

Estimated Project Cost $404,015.00

TOTAL CONTRACT ADMINISTRATION FEE **$20,775.00**