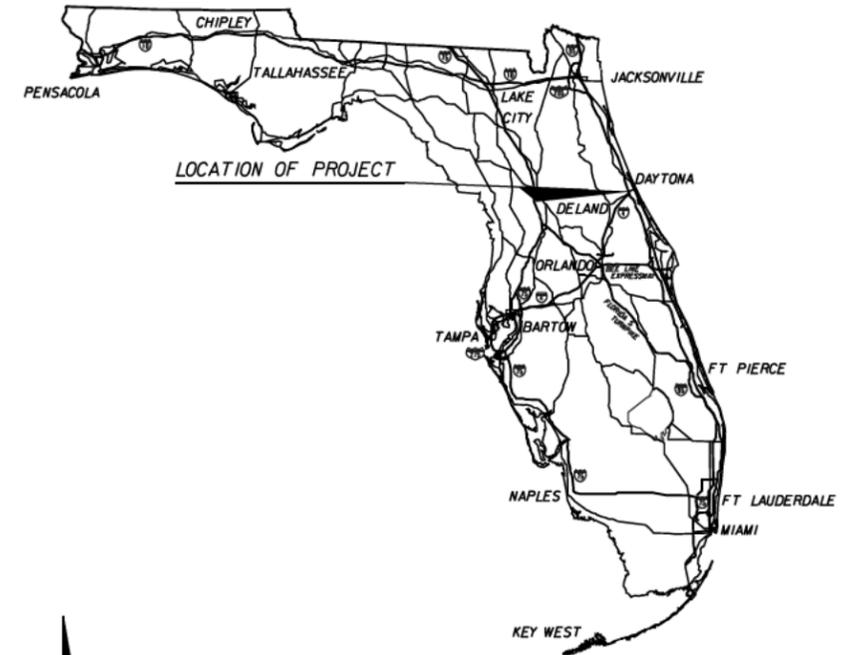


STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

CONTRACT PLANS

FINANCIAL PROJECT ID 434871-1-52-01

VOLUSIA COUNTY (79060)
STATE ROAD NO. 600



A DETAILED INDEX APPEARS ON THE
KEY SHEET OF EACH COMPONENT

INDEX OF ROADWAY PLANS

| SHEET NO. | SHEET DESCRIPTION |
|-----------|-------------------|
| 1 | KEY SHEET |
| 2 | TYPICAL SECTIONS |
| 3 | DRAINAGE DETAILS |
| 4-6 | PLAN |
| 7 | SWPPP |

R-32-E
R-33-E

BEGIN PROJECT
STA 469+00.00
MP 16.68

T-15-S



END PROJECT
STA 544+00.00
MP 18.10

ROADWAY SHOP DRAWINGS
TO BE SUBMITTED TO:

PLANS PREPARED BY:

HTNB CORPORATION
610 CRESCENT EXECUTIVE CT, SUITE 400
LAKE MARY, FL 32746
PHONE (407) 805-0355

CERTIFICATE OF AUTHORIZATION 6500

CONTRACT C-8V63

VENDOR 952661922-011

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

GOVERNING STANDARDS AND SPECIFICATIONS:
FLORIDA DEPARTMENT OF TRANSPORTATION,
DESIGN STANDARDS DATED JANUARY 2014,
AND STANDARD SPECIFICATIONS FOR ROAD
AND BRIDGE CONSTRUCTION DATED 2013,
AS AMENDED BY CONTRACT DOCUMENTS.

PROJECT LENGTH IS BASED ON C CONSTRUCTION

| LENGTH OF PROJECT | | |
|-------------------------|-------------|-------|
| | LINEAR FEET | MILES |
| ROADWAY | 7,500.00 | 1.420 |
| BRIDGES | 0.00 | 0.00 |
| NET LENGTH OF PROJECT | 7,500.00 | 1.420 |
| EXCEPTIONS | 0.00 | 0 |
| GROSS LENGTH OF PROJECT | 7,500.00 | 1.420 |

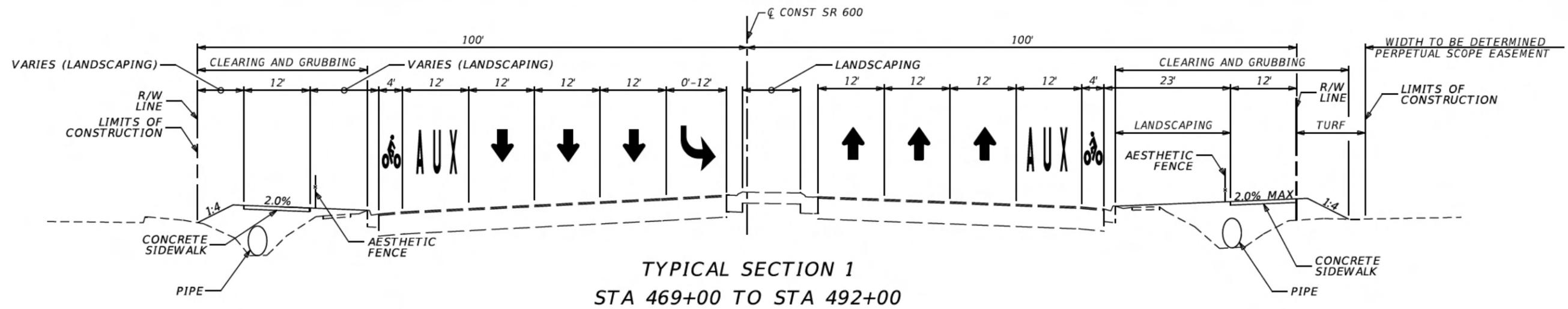
| KEY SHEET REVISIONS | | |
|---------------------|----|-------------|
| DATE | BY | DESCRIPTION |
| | | |

ROADWAY PLANS
ENGINEER OF RECORD: MICHAEL VERNON O'DONNELL, P.E.

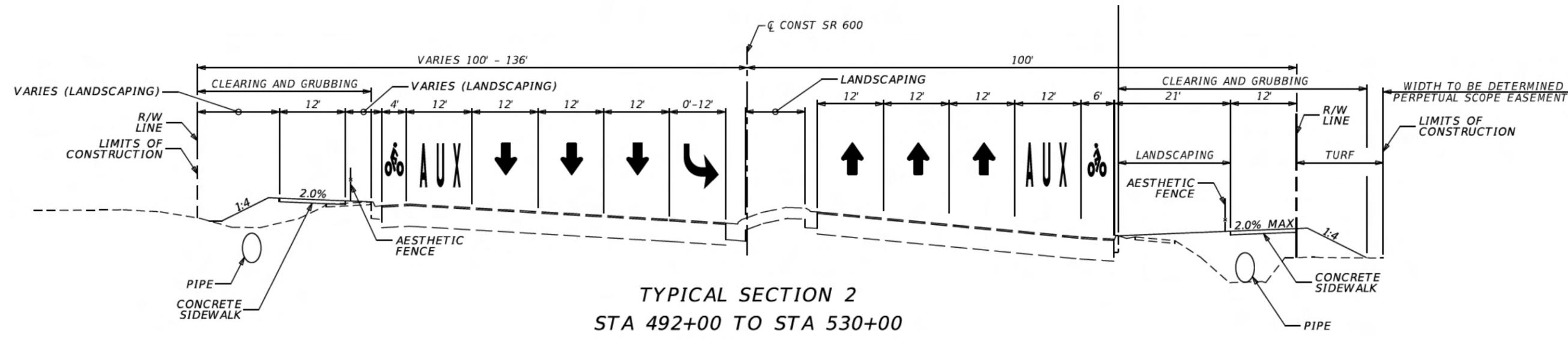
P.E. NO.: 67442

| FISCAL YEAR | SHEET NO. |
|-------------|-----------|
| | 1 |

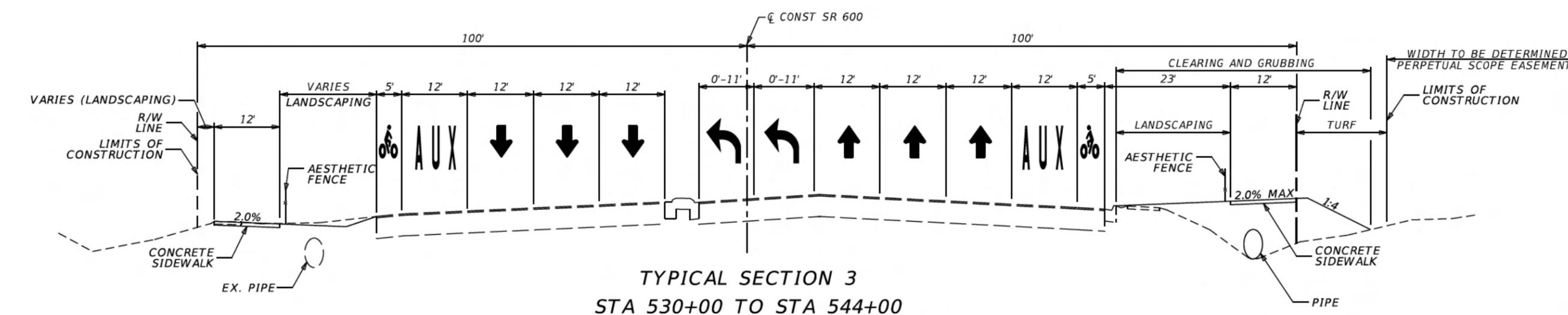
FDOT PROJECT MANAGER: BRADLEY BAUKNECHT, P.E.



TYPICAL SECTION 1
STA 469+00 TO STA 492+00



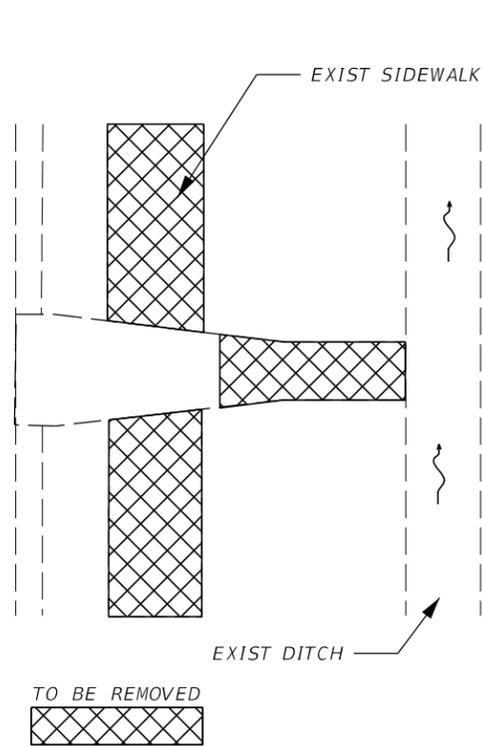
TYPICAL SECTION 2
STA 492+00 TO STA 530+00



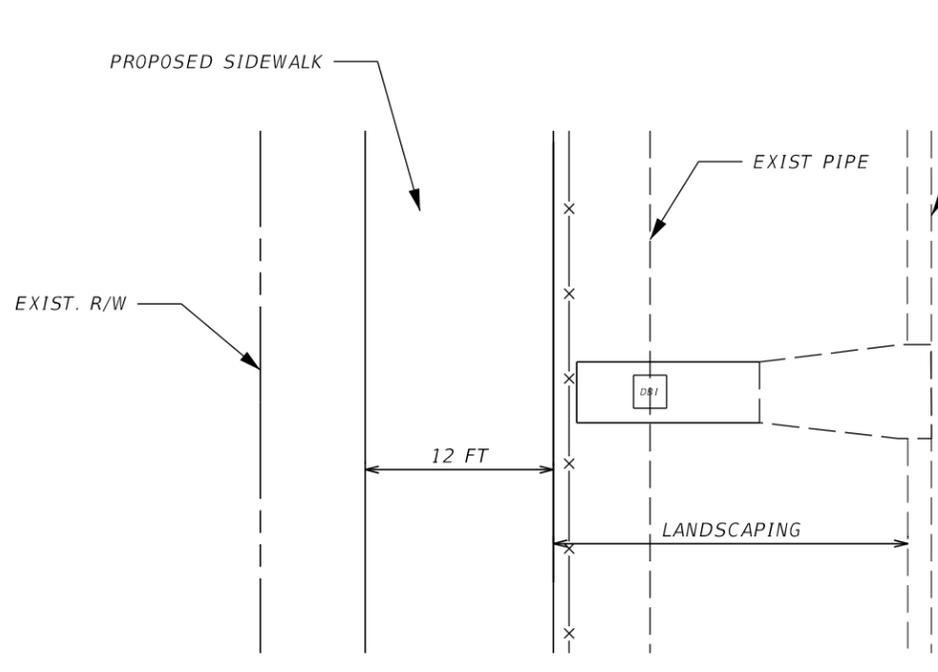
TYPICAL SECTION 3
STA 530+00 TO STA 544+00

| REVISIONS | | | | HNTB CORPORATION 610 CRESCENT EXECUTIVE CT SUITE 400 LAKE MARY, FL 32746 (407) 805-0355 CERT. OF AUTH. NO. 6500 | STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION | | | SHEET NO. 2 |
|-----------|-------------|------|-------------|--|--|---------|----------------------|----------------|
| DATE | DESCRIPTION | DATE | DESCRIPTION | | ROAD NO. | COUNTY | FINANCIAL PROJECT ID | |
| | | | | ENGINEER OF RECORD: MICHAEL VERNON O'DONNELL, P.E. FL. REGISTRATION NO. 67442 | SR 600 | VOLUSIA | 434871-1-52-01 | |

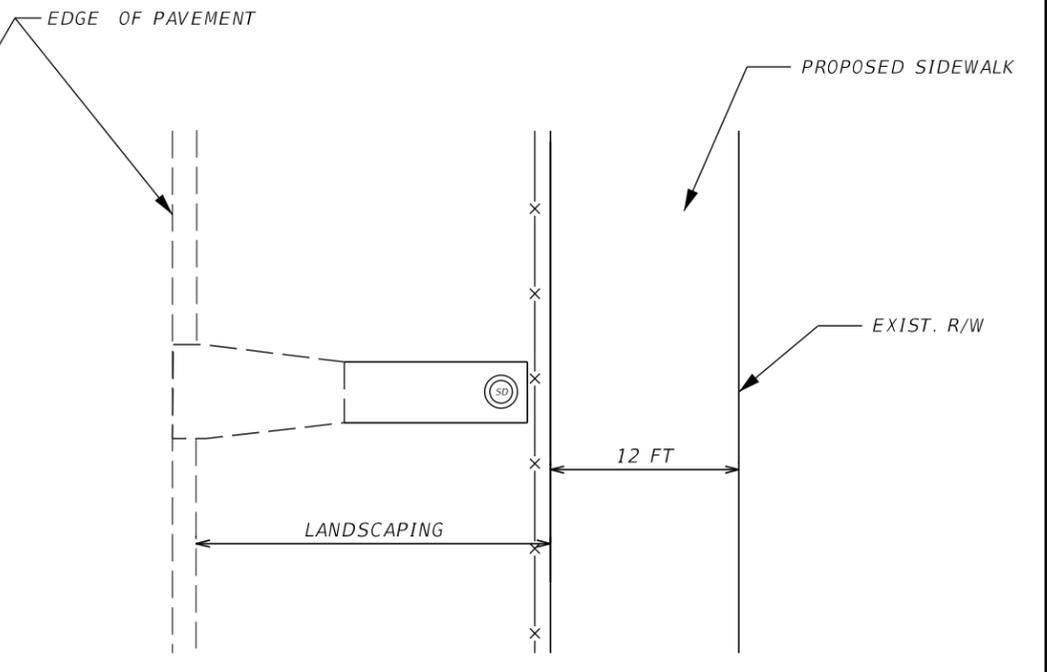
TYPICAL SECTIONS



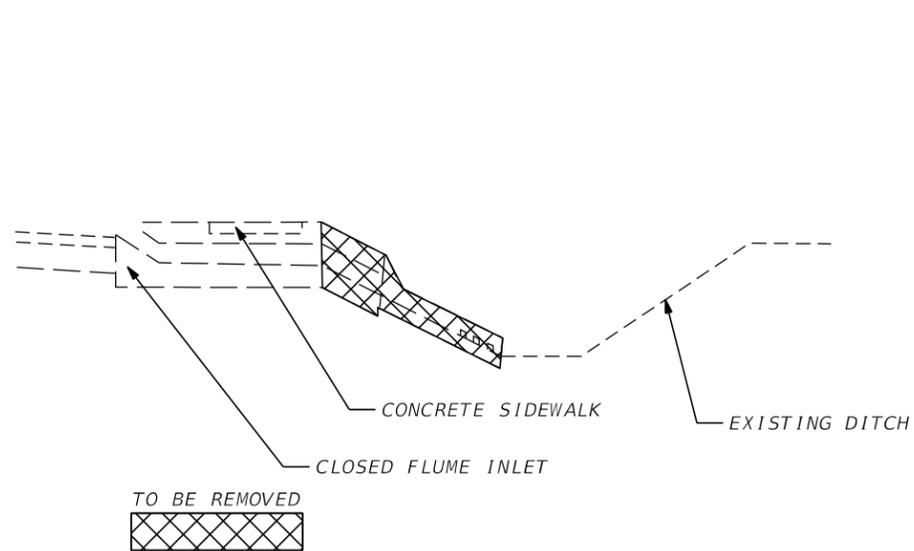
EXISTING PLAN
(RIGHT SIDE SHOWN,
LEFT SIDE SIMILAR)



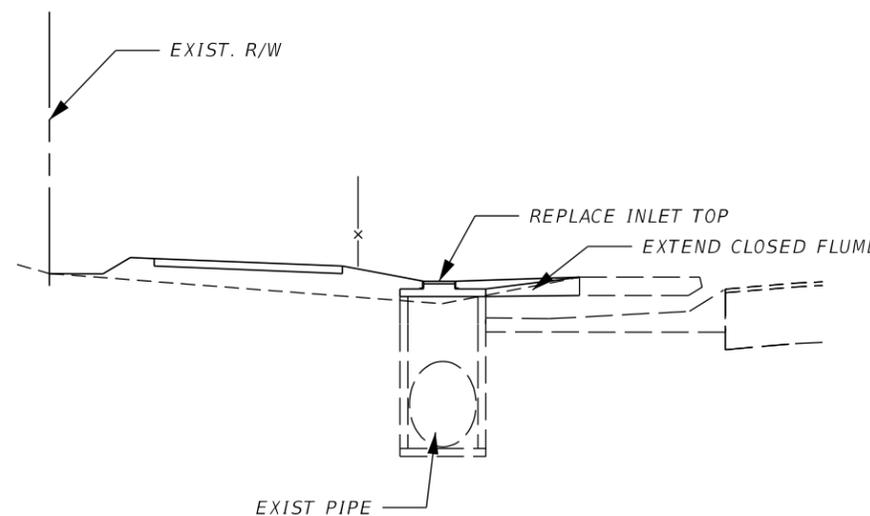
PROPOSED PLAN LEFT



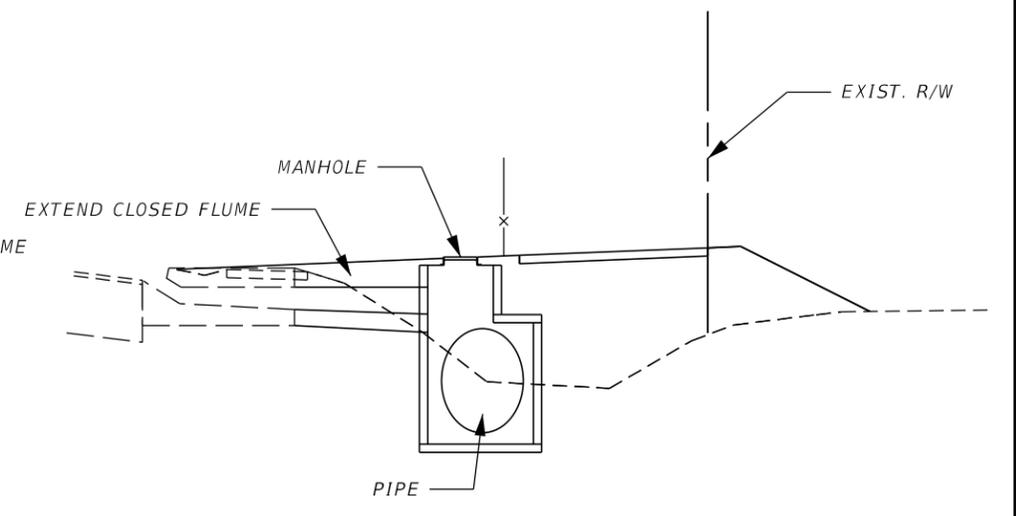
PROPOSED PLAN RIGHT



EXISTING CROSS-SECTION
(RIGHT SIDE SHOWN,
LEFT SIDE SIMILAR)



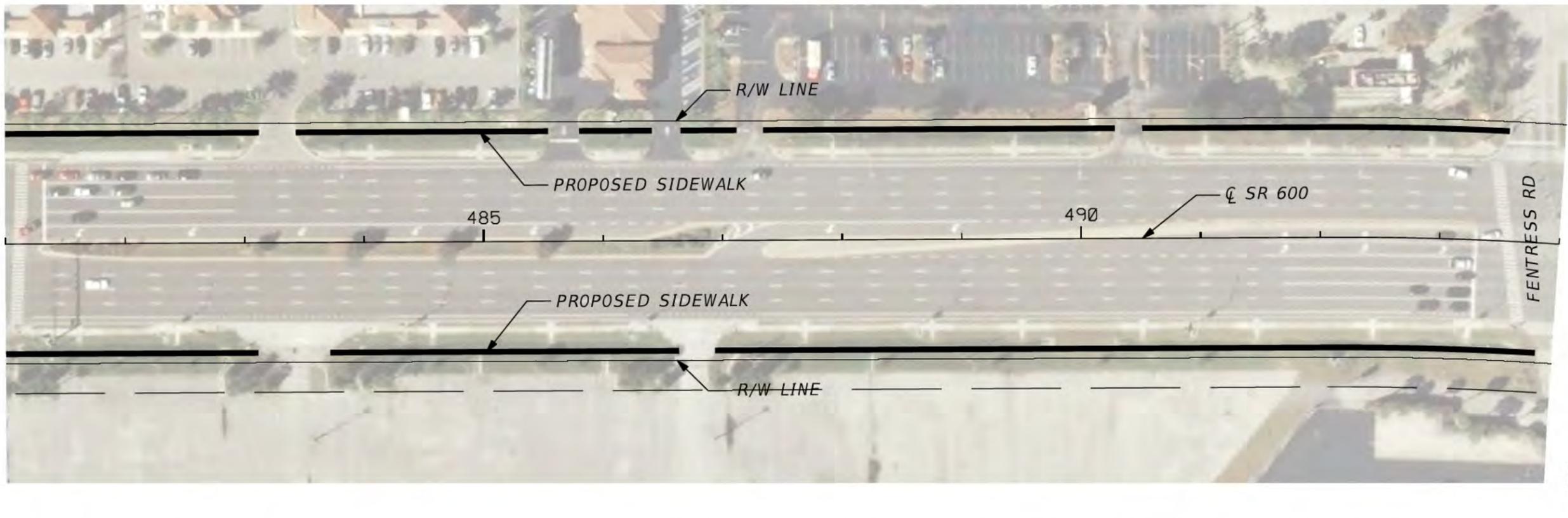
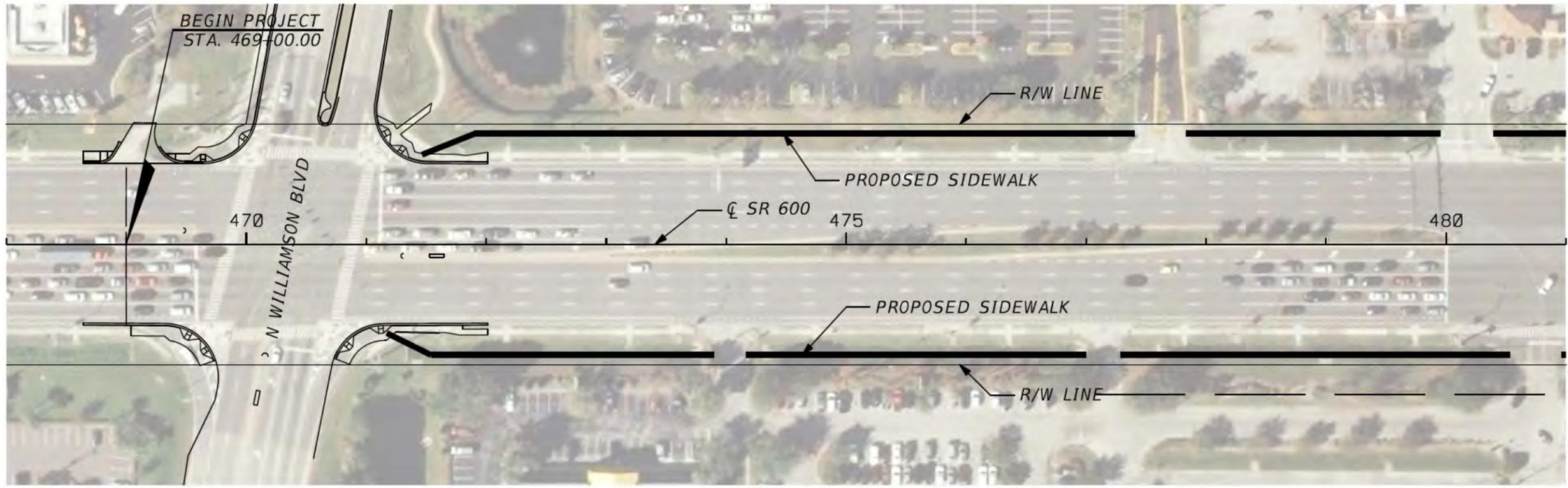
PROPOSED CROSS-SECTION LEFT



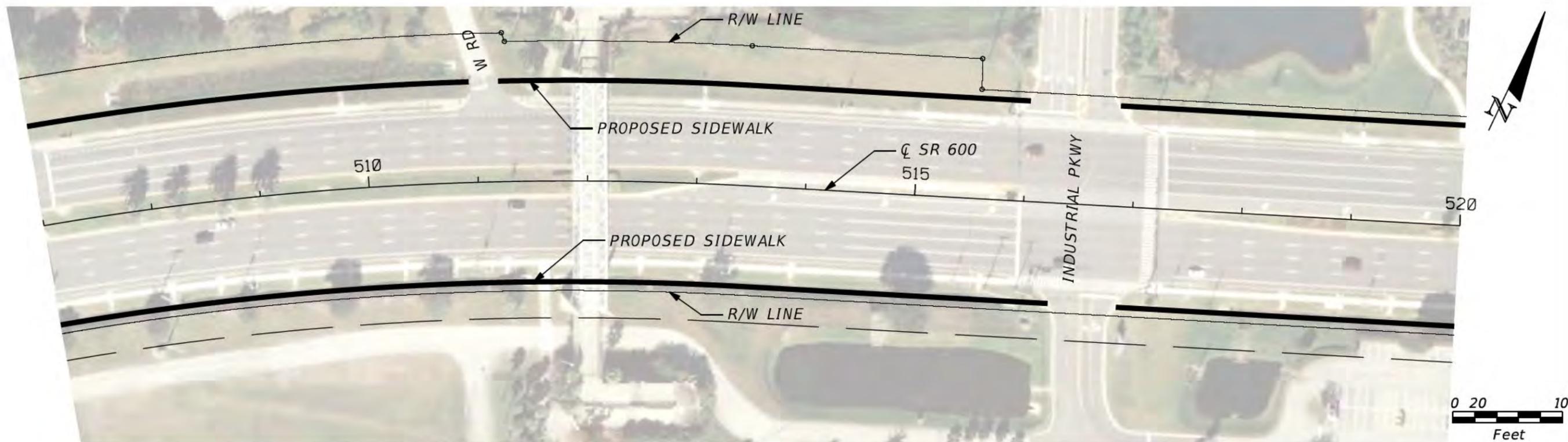
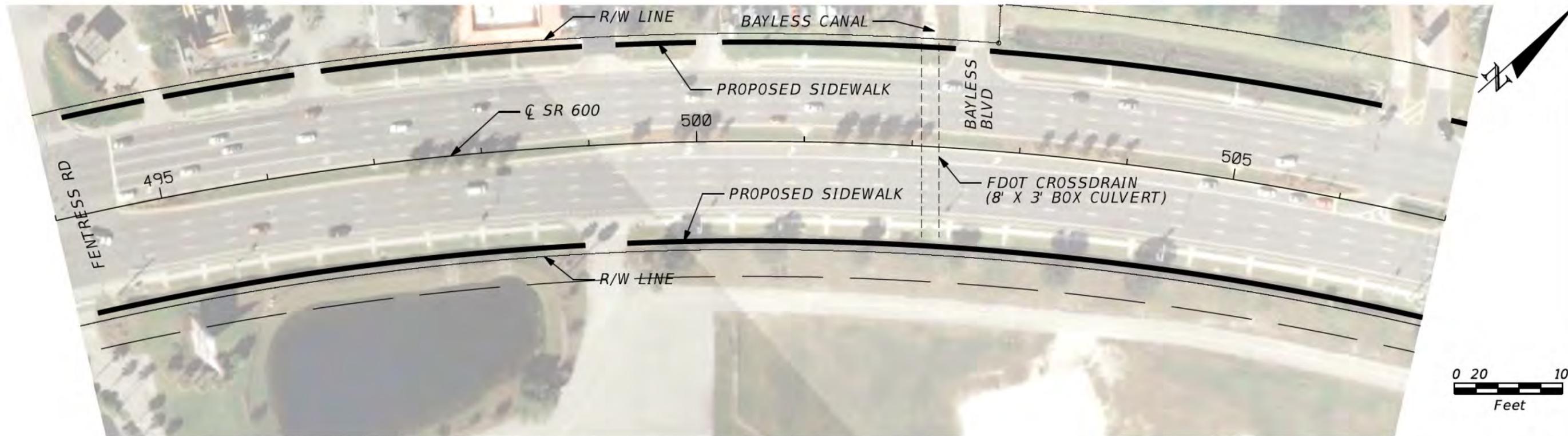
PROPOSED CROSS-SECTION RIGHT

| REVISIONS | | | | HNTB CORPORATION 610 CRESCENT EXECUTIVE CT SUITE 400 LAKE MARY, FL 32746 (407) 805-0355 CERT. OF AUTH. NO. 6500 ENGINEER OF RECORD: MICHAEL VERNON O'DONNELL, P.E. FL. REGISTRATION NO. 67442 | STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION | | | SHEET NO. 3 |
|-----------|-------------|------|-------------|--|--|---------|----------------------|-----------------------|
| DATE | DESCRIPTION | DATE | DESCRIPTION | | ROAD NO. | COUNTY | FINANCIAL PROJECT ID | |
| | | | | | SR 600 | VOLUSIA | 434871-1-52-01 | |

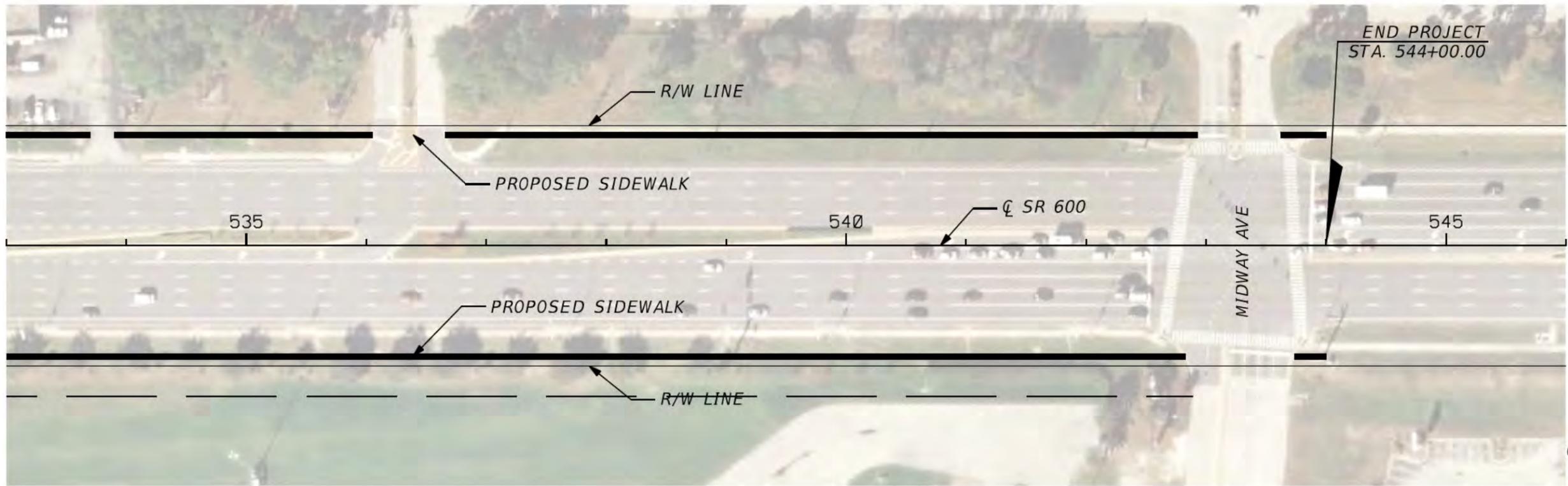
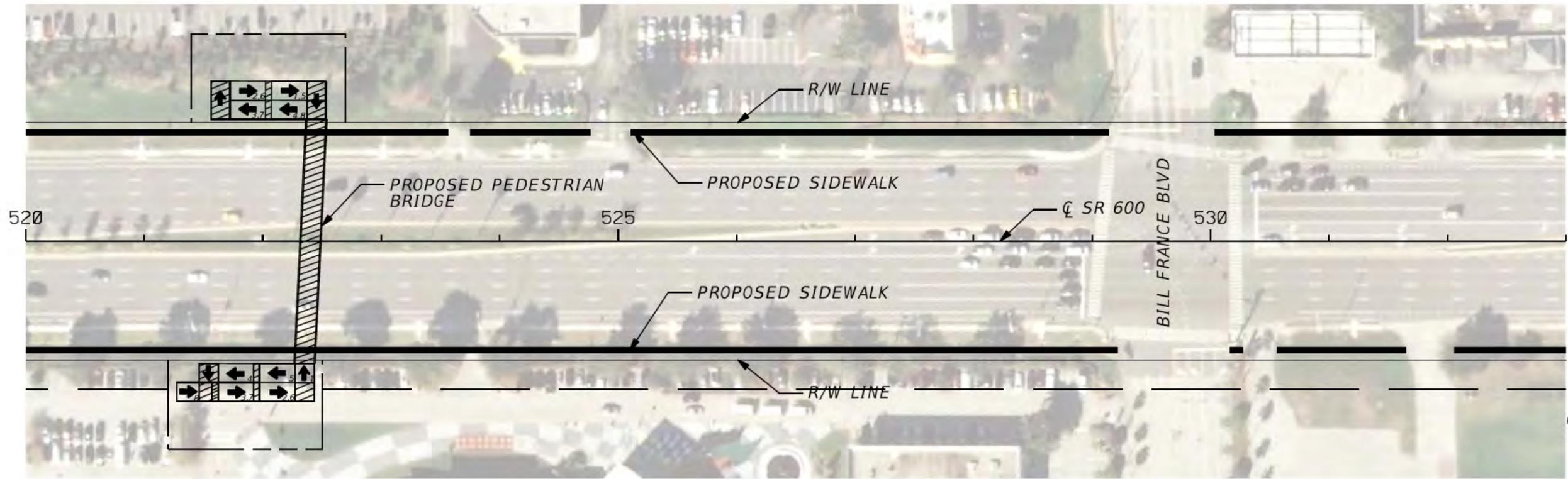
DRAINAGE DETAILS



| REVISIONS | | | | HNTB CORPORATION 610 CRESCENT EXECUTIVE CT SUITE 400 LAKE MARY, FL 32746 (407) 805-0355 CERT. OF AUTH. NO. 6500 | STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION | | | PLAN SHEET SHEET NO. 4 |
|-----------|-------------|------|-------------|--|--|---------|----------------------|---|
| DATE | DESCRIPTION | DATE | DESCRIPTION | | ROAD NO. | COUNTY | FINANCIAL PROJECT ID | |
| | | | | ENGINEER OF RECORD: MICHAEL VERNON O'DONNELL, P.E. FL. REGISTRATION NO. 67442 | SR 600 | VOLUSIA | 434871-1-52-01 | |



| REVISIONS | | | | HNTB CORPORATION 610 CRESCENT EXECUTIVE CT SUITE 400 LAKE MARY, FL 32746 (407) 805-0355 CERT. OF AUTH. NO. 6500 | STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION | | | PLAN SHEET SHEET NO. 5 |
|-----------|-------------|------|-------------|--|--|---------|----------------------|---|
| DATE | DESCRIPTION | DATE | DESCRIPTION | | ROAD NO. | COUNTY | FINANCIAL PROJECT ID | |
| | | | | ENGINEER OF RECORD: MICHAEL VERNON O'DONNELL, P.E. FL. REGISTRATION NO. 67442 | SR 600 | VOLUSIA | 434871-1-52-01 | |



| REVISIONS | | | | HNTB CORPORATION 610 CRESCENT EXECUTIVE CT SUITE 400 LAKE MARY, FL 32746 (407) 805-0355 CERT. OF AUTH. NO. 6500 | STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION | | | PLAN SHEET | SHEET NO. 6 |
|-----------|-------------|------|-------------|--|--|---------|----------------------|-------------------|--------------------|
| DATE | DESCRIPTION | DATE | DESCRIPTION | | ROAD NO. | COUNTY | FINANCIAL PROJECT ID | | |
| | | | | ENGINEER OF RECORD: MICHAEL VERNON O'DONNELL, P.E. FL. REGISTRATION NO. 67442 | SR 600 | VOLUSIA | 434871-1-52-01 | | |

1. SITE DESCRIPTION:

- A. CONSTRUCTION ACTIVITY/PROJECT LIMITS
 THE PROJECT IS LOCATED ON US-92 (SR 600) IN THE CITY OF DAYTONA BEACH IN VOLUSIA COUNTY IN SECTIONS 22 & 23, TOWNSHIP 15 SOUTH, RANGE 32 EAST.
 LATITUDE 29°10'55" N LONGITUDE 81°04'45" W
 THE PROJECT CONSISTS OF PEDESTRIAN IMPROVEMENTS FOR US-92 (SR 600) FROM WILLIAMSON BOULEVARD TO MIDWAY AVENUE. INCLUDED IS CONSTRUCTION OF SIDEWALKS, INLETS, PIPES, PEDESTRIAN BRIDGE, MAST ARM & INTERSECTION UPGRADES, UTILITY ADJUSTMENTS, LIGHTING, LANDSCAPING AND RESODDING. THE TOTAL PROJECT LENGTH IS 1.420 MILES.
- B. SEQUENCE OF MAJOR ACTIVITY AND IMPLEMENTATION OF CONTROLS
 1. INSTALLATION OF SEDIMENT BARRIER
 2. CONSTRUCTION OF DRAINAGE STRUCTURES
 3. CONSTRUCTION OF PEDESTRIAN IMPROVEMENTS
 4. FINAL SOD AND LANDSCAPING
- C. ESTIMATE OF TOTAL PROJECT AREA AND AREA TO BE DISTURBED IS 13.80± ACRES. THE TOTAL PROJECT AREA IS ESTIMATED TO BE 35.50± ACRES.
- D. ESTIMATED OF RUNOFF COEFFICIENTS, EXISTING SOIL DATA AND AVERAGE SLOPE
 THE ESTIMATED RUNOFF COEFFICIENT BEFORE CONSTRUCTION: C = 0.76
 THE ESTIMATED RUNOFF COEFFICIENT AFTER CONSTRUCTION: C = 0.79
 THE ESTIMATED RUNOFF COEFFICIENT DURING CONSTRUCTION VARIES FROM C = 0.76 TO C = 0.79
 THE USDA SOIL CONSERVATION SERVICE SOIL SURVEY OF THE PROJECT AREA.
 THE ESTIMATED DRAINAGE AREA AND SOIL TYPE FOR EACH OUTFALL:
 URBAN LAND IMMOKALEE SAND
- E. SITE MAP
 PLEASE SEE THE ROADWAY CONSTRUCTION PLANS.
- F. DRAINAGE MAP NARRATIVE
 EXISTING DRAINAGE PATTERNS WILL NOT BE ALTERED FROM PRE TO POST CONDITIONS. STORMWATER WILL BE CONVEYED BY A CLOSED SYSTEM. ALL STORM WATER SHALL EVENTUALLY FLOW THROUGH THE EXISTING DITCHES TO THE ULTIMATE OUTFALL OF THE TOMOKA RIVER.

G. RECEIVING WATERS/WETLAND AREAS

| OUTFALL ID | RECEIVING WATER | LAT | LONG |
|------------|------------------|-------------|-------------|
| OUTFALL 1 | WILLIAMSON CANAL | 29°10'56" N | 81°04'44" W |
| OUTFALL 2 | BAYLESS CANAL | 29°11'23" N | 81°04'29" W |
| OUTFALL 3 | MIDWAY OUTFALL | 29°11'38" N | 81°03'49" W |

2. CONTROLS:

A. EROSION AND SEDIMENT CONTROLS
 DURING THE CONSTRUCTION OPERATIONS, THE FOLLOWING CONTROL MEASURES WILL BE USED TO PREVENT EROSION AND SEDIMENTATION. CLEARING AND GRUBBING OPERATIONS ARE CONTROLLED SO AS TO MINIMIZE UNPROTECTED ERODIBLE AREAS EXPOSED TO WEATHER. AREAS OUTSIDE THE LIMITS OF CONSTRUCTION WILL NOT BE DISTURBED.

EXCAVATED MATERIAL WILL NOT BE DEPOSITED IN LOCATIONS WHERE IT COULD BE WASHED AWAY BY HIGH WATER OR STORM WATER RUNOFF, AND STOCKPILES SHALL BE COVERED OR ENCIRCLED WITH SEDIMENT CONTAINMENT DEVICES. NEW AND EXISTING STRUCTURES WILL BE PROTECTED FROM SILTATION DURING CONSTRUCTION.

THE CONTRACTOR IS ADVISED THAT THE CONTRACT DRAWINGS ONLY INDICATE EROSION, SEDIMENT, AND TURBIDITY CONTROLS AT LOCATIONS DETERMINED IN THE DESIGN PROCESS. HOWEVER, THE CONTRACTOR IS REQUIRED TO UPDATE THE SWPPP TO REFLECT ANY ADDITIONAL CONTROLS NECESSARY TO PREVENT THE POSSIBILITY OF SILTING ANY ADJACENT LOWLAND PARCEL, RECEIVING WATER, OR OTHERWISE VIOLATING STATE AND FEDERAL PERMIT REQUIREMENTS. THE CONTRACTOR'S PLAN SHALL INCLUDE:

- * THE CONSTRUCTION PROJECT SCHEDULE WITH EROSION AND SEDIMENT CONTROL INSTALLATION AND MAINTENANCE TIED TO SPECIFIC DATES OR CONSTRUCTION ACTIVITIES.
- * MODIFICATIONS TO THE DEPARTMENT'S SWPPP PLANS DUE TO CONTRACTOR'S PROPOSED CONSTRUCTION MEANS, METHODS AND PHASING. THE CONTRACTOR'S EROSION CONTROL PLAN WILL BE UTILIZED AS THE FIRST FORMAL UPDATE TO THE SWPPP.
- * NAME AND PHONE NUMBER OF CONTRACTOR'S REPRESENTATIVE RESPONSIBLE FOR EROSION AND SEDIMENT CONTROL INSTALLATION AND MAINTENANCE ON A 24 HOUR BASIS.

(1) STABILIZATION PRACTICES

THE CONTRACTOR SHALL BE RESPONSIBLE FOR:

- A) EROSION AND SEDIMENT CONTROL MEASURES ARE TO BE PLACED AS THE FIRST STEP IN CONSTRUCTION. SEDIMENT CONTROL DEVICES WILL BE EMPLOYED AS A PERIMETER DEFENSE AGAINST ANY TRANSPORTATION OF SILT OFF THE SITE.
- B) STABILIZATION MEASURES SHALL BE INITIATED FOR EROSION AND SEDIMENT CONTROL ON DISTURBED AREAS AS SOON AS PRACTICABLE IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, BUT IN NO CASE MORE THAN 7 DAYS AFTER THE CONSTRUCTION ACTIVITY IN THE PORTION OF THE SITE HAS TEMPORARILY OR PERMANENTLY CEASED.
- C) PERMANENT SOIL EROSION CONTROL MEASURES FOR ALL SLOPES, CHANNELS, DITCHES OR ANY DISTURBED LAND AREAS SHALL BE COMPLETED IMMEDIATELY AFTER FINAL GRADING. WHEN IT IS NOT POSSIBLE TO PERMANENTLY PROTECT A DISTURBED AREA IMMEDIATELY AFTER GRADING OPERATIONS TEMPORARY EROSION CONTROL MEASURES SHALL BE INSTALLED. ALL TEMPORARY PROTECTION SHALL BE MAINTAINED UNTIL PERMANENT MEASURES ARE IN PLACE AND ESTABLISHED.
- D) THE CONTRACTOR SHALL FURNISH, INSTALL, MAINTAIN AND SUBSEQUENTLY REMOVE, ALL NECESSARY EROSION CONTROL, INCLUDING BUT NOT LIMITED TO SEDIMENT BARRIERS, TURBIDITY BARRIERS AND ANY OTHER MISCELLANEOUS ITEMS AS INDICATED WITHIN THE CONTRACT DOCUMENT, OR AS REQUIRED PER APPLICABLE STANDARDS OR THE ENGINEER.

(2) STRUCTURAL PRACTICES

THE FOLLOWING STRUCTURAL PRACTICES MAY BE INCLUDED AS PAY ITEMS IN THE SUMMARY OF QUANTITIES WITHIN THE CONSTRUCTION PLANS:

- SEDIMENT AND TURBIDITY BARRIER
- INLET PROTECTION SYSTEM
- FINAL SOD

B. STORM WATER MANAGEMENT AND MONITORING
 THE STORM WATER RUNOFF FROM UNSTABILIZED CONSTRUCTION AREAS MUST BE TREATED PRIOR TO DISCHARGE INTO TOMOKA RIVER VIA CONTROLLED DITCHES AND STORM SEWER PIPE.

C. OTHER CONTROLS

- (1) WASTE DISPOSAL
 TO BE DEVELOPED AS PART OF THE CONTRACTOR'S EROSION CONTROL PLAN.
- (2) OFF-SITE TRACKING/SPILLAGE
 TO BE DEVELOPED AS PART OF THE CONTRACTOR'S EROSION CONTROL PLAN.
- (3) SANITARY WASTE
 TO BE DEVELOPED AS PART OF THE CONTRACTOR'S EROSION CONTROL PLAN.
- (4) FERTILIZERS AND PESTICIDES
 TO BE DEVELOPED AS PART OF THE CONTRACTOR'S EROSION CONTROL PLAN.
- (5) NON-STORM WATER DISCHARGES AND HAZARDOUS WASTE
 TO BE DEVELOPED AS PART OF THE CONTRACTOR'S EROSION CONTROL PLAN.

WHEN THE CONTRACTOR ENCOUNTERS A SPILL, CONSTRUCTION WILL STOP AND WORK WILL NOT RESUME UNTIL DIRECTED BY THE ENGINEER. DISPOSITION OF HAZARDOUS WASTE WILL BE MADE IN ACCORDANCE WITH ANY REQUIREMENTS AND REGULATIONS OF ANY LOCAL, STATE, OR FEDERAL AGENCY HAVE JURISDICTION. THE CONTRACTOR ENCOUNTERS CONTAMINATED SOIL OR GROUNDWATER, CONTACT THE DISTRICT HAZARDOUS MATERIALS COORDINATOR AT (386) 943-5000.

D. APPROVED STATE AND LOCAL PLANS OR PERMITS

FDEP NOI PERMIT TO BE OBTAINED BY CONTRACTOR.

3. MAINTENANCE:

THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL POLLUTION PREVENTION CONTROLS. DAILY INSPECTIONS SHALL BE MADE BY THE CONTRACTOR TO DETERMINE THE EFFECTIVENESS OF EROSION, SEDIMENTATION, TURBIDITY, AND POLLUTION CONTROL MEASURES. REMEDIAL ACTION SHALL BE PERFORMED IMMEDIATELY.

4. INSPECTION:

THE CONTRACTOR IS REQUIRED TO INSPECT ALL EROSION CONTROL FEATURES AT LEAST ONCE EVERY SEVEN CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A STORM OF 0.5 INCHES [12.7 MM] OR GREATER. IN ADDITION, MAINTAIN ALL EROSION CONTROL FEATURES AS REQUIRED HEREIN AND AS SPECIFIED IN STATE AND/OR FEDERAL ENVIRONMENTAL REGULATORY PERMITS. THIS INCLUDES, BUT IS NOT LIMITED TO, THE DAILY REVIEW OF THE LOCATION OF SEDIMENT BARRIERS IN AREAS WHERE CONSTRUCTION ACTIVITIES HAVE CHANGED THE NATURAL CONTOUR AND DRAINAGE RUNOFF TO ENSURE THAT SEDIMENT BARRIERS ARE PROPERLY LOCATED FOR EFFECTIVENESS. THE CONTRACTOR WILL USE FDOT FORM 650-040-03 TO REPORT ALL INSPECTION FINDINGS AND CORRECTIVE ACTIONS TAKEN AS A RESULT OF THE INSPECTION. THE CONTRACTOR WILL SIGN EACH INSPECTION REPORT AND SUBMIT IT WEEKLY TO THE REPORT ENGINEER.

WHEN THE CONTRACTOR ENCOUNTERS A SPILL CONSTRUCTION WILL STOP AND WORK WILL NOT RESUME UNTIL DIRECTED BY THE ENGINEER. DISPOSITION OF HAZARDOUS WASTE WILL BE MADE IN ACCORDANCE WITH ANY REQUIREMENTS AND REGULATIONS OF ANY LOCAL, STATE, OR FEDERAL AGENCY HAVING JURISDICTION. IF CONTAMINATED SOIL OR GROUNDWATER IS ENCOUNTERED, CONTACT THE FDOT DISTRICT FIVE HAZARDOUS MATERIAL COORDINATOR, AT (386) 943-5000.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF RAIN GAUGES. DAILY RAINFALL DATA WILL BE RECORDED AND SUBMITTED TO THE ENGINEER ALONG WITH THE WEEKLY INSPECTION REPORTS.

5. DEWATERING:

AT LEAST 45 DAYS PRIOR TO INITIATION OF CONSTRUCTION, THE PERMITTEE SHALL SUBMIT A DETAILED EROSION AND SEDIMENT CONTROL PLAN, DEVELOPED BY THE CONTRACTOR RESPONSIBLE FOR CONSTRUCTION TO THE SJRWMD. FOR WRITTEN APPROVAL. THE PLAN SHALL DETAIL ALL EROSION AND SEDIMENT CONTROL MEASURES TO BE IMPLEMENTED BOTH DURING AND AFTER CONSTRUCTION. AT A MINIMUM THE PLAN SHALL INCLUDE:

- * IDENTIFICATION OF ANY AREAS WHERE DEWATERING WILL BE PERFORMED DURING CONSTRUCTION
- * DETAILS OF SPECIFIC EROSION AND SEDIMENT CONTROL MEASURES TO BE IMPLEMENTED TO CONTROL THE DISCHARGE OF TURBID WATER DUE TO DEWATERING ACTIVITIES.
- * CONSTRUCTION SEQUENCING AND DETAILS OF ALL EROSION AND SEDIMENT CONTROL MEASURES TO BE IMPLEMENTED DURING EACH SEQUENCE.

CONSTRUCTION SHALL NOT COMMENCE UNTIL THE PERMITTEE RECEIVES WRITTEN APPROVAL OF THE PLAN FROM THE SJRWMD.

| REVISIONS | | | | HNTB CORPORATION 610 CRESCENT EXECUTIVE CT SUITE 400 LAKE MARY, FL 32746 (407) 805-0355 CERT. OF AUTH. NO. 6500 | STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION | | | SHEET NO. 7 |
|-----------|-------------|------|-------------|--|--|---------|----------------------|--------------------|
| DATE | DESCRIPTION | DATE | DESCRIPTION | | ROAD NO. | COUNTY | FINANCIAL PROJECT ID | |
| | | | | ENGINEER OF RECORD: MICHAEL VERNON O'DONNELL, P.E. FL. REGISTRATION NO. 67442 | SR 600 | VOLUSIA | 434871-1-52-01 | |