

March 28, 2017

**BOARD OF COUNTY COMMISSIONERS  
ORANGE COUNTY, FLORIDA**

**ADDENDUM NO. 1 / IFB NO. Y17-743-RM  
BARRY STREET DRAINAGE IMPROVEMENTS PROJECT**

**BID OPENING DATE IS APRIL 13, 2017**

This Addendum is hereby incorporated into the bid documents of the project referenced above. The following items are clarifications, corrections, additions, deletions and/or revisions to and shall take precedence over the original documents. Additions are indicated by underlining, deletions are indicated by ~~strikethrough~~.

**A.** The bid opening date remains April 13, 2017.

**B.** The following are questions/responses/clarifications:

1. Delete page A-5 Part H Technical Specifications and replace with the attached revised page A-5.
2. Delete sheet 1 Drawings and replace with the attached revised sheet 1.
3. Delete sheet 4 Drawings and replace with the attached revised sheet 4.
4. Delete sheet 25 Drawings and replace with the attached revised sheet 25.
5. Delete sheet 32 Drawings and replace with the attached revised sheet 32.

**C.** All other terms, conditions and specifications remain the same.

**The Bidder shall acknowledge receipt of this addendum by completing the applicable section in the solicitation or by completion of the acknowledgement information on the addendum. Either form of acknowledgement must be completed and returned not later than the date and time for receipt of the bid.**

**Receipt acknowledged by:**

\_\_\_\_\_  
**Authorized Signature**

\_\_\_\_\_  
**Date Signed**

\_\_\_\_\_  
**Title**

\_\_\_\_\_  
**Name of Firm**

## PART H

### TECHNICAL PROVISIONS

for

### BARRY STREET DRAINAGE IMPROVEMENTS ORANGE COUNTY, FLORIDA

“**Standard Specifications**” shall mean the January 2017 edition of the Florida Department of Transportation (FDOT) Standard Specifications for Road and Bridge Construction, and supplements thereto, and Orange County Road Construction Specifications. The project shall be constructed in accordance with these specifications and the Florida Department of Transportation (FDOT) “**Standard Specifications for Road and Bridge Construction**,” January 2017 edition, and “**Supplemental Specifications for Road and Bridge Construction**,” January 2017, hereafter referred to as the “**Standard Specifications**,” and “**Orange County Road Construction Specifications**,” latest edition. “**Additional Specifications**” (if any) may also be provided herein by the Engineer in an effort to more clearly define the Work under this Contract.

When reference is made to a Division, Section, or Article, it shall mean a Division, Section, or Article of said “Standard Specification”. Wherever the Standard Specifications indicate a mailing address for a State office or Agency, the office or agency and the address shown area hereby deleted and replaced by the following:

Orange County Roads and Drainage  
Division – Public Works Department

4200 South John Young Parkway  
Orlando, Florida 32839

Where duplication of specifications occur, the Florida Department of Transportation (FDOT) “Standard Specifications for Road and Bridge Construction (January 2017)” shall apply unless reference is made to a material or equipment specification as required by Orange County. Where discrepancies occur between the “Standard Specifications”, “Supplemental Specifications”, “Orange County Specifications” and the Engineer’s “Additional Specifications”, provisions of Section 5-2 of the Standard Specifications for Road and Bridge Construction (January 2017) shall apply.

Each reference to Basis of Payment in said “Standard Specifications” is superseded by the conditions contained in the Technical Provisions and all other conditions related to Basis of Payment contained in these specifications.

The work specified in this contract represents the type of services to be accomplished. Work under this contract is limited to specified areas as listed in the scope of work. Areas have been inventoried and calculated as to quantities. Any discrepancies or disagreements concerning quantities and limits of work shall be immediately reported in writing (shall reflect the new measurements taken by the Contractor and the contract measurements) to the County representative. Discrepancies or disagreements will be mutually resolved prior to beginning work in any area in question. The County will make the final determination on any unresolved matters.



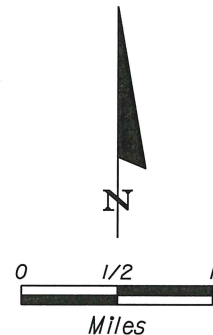
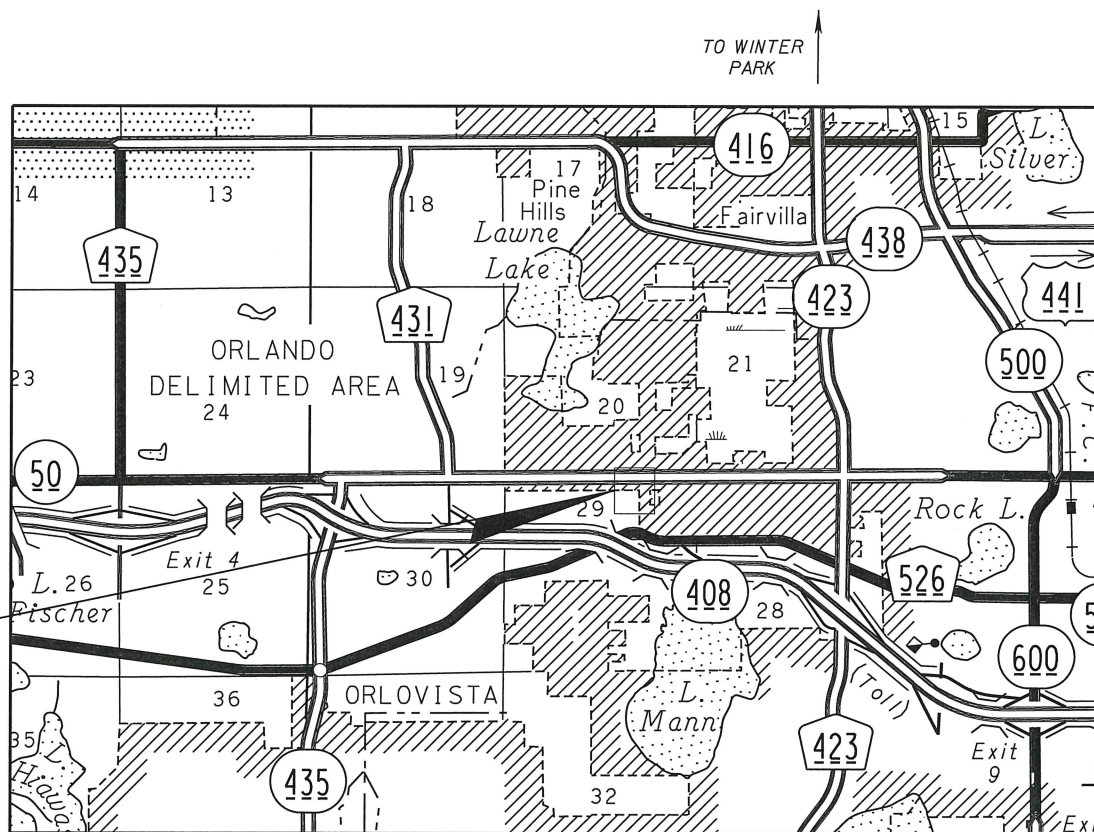
# CONSTRUCTION PLANS FOR BARRY STREET DRAINAGE IMPROVEMENTS ORANGE COUNTY, FLORIDA

TERESA JACOBS, COUNTY MAYOR

## BOARD OF COUNTY COMMISSIONERS

BETSY VANDERLEY DISTRICT 1  
BRYAN NELSON DISTRICT 2  
PETE CLARKE DISTRICT 3  
JENNIFER THOMPSON DISTRICT 4  
EMILY BONILLA DISTRICT 5  
VICTORIA P. SIPLIN DISTRICT 6

MARK MASSARO, P.E., PUBLIC WORKS DIRECTOR



SOURCE OF BENCHMARK DATUM:

**BENCHMARK 1**  
DESIGNATION: S754005  
DESCRIPTION: FOUND RAILROAD SPIKE IN EAST FACE OF POWER POLE, WEST SIDE OF FAIRVILLA ROAD, NORTHWEST CORNER OF FAIRVILLA ROAD AND ENTRANCE TO FAIR GROUNDS, 641 FEET ± NORTH OF STATE ROAD 50  
PUBLISHED EL. = 101.047 FT (NAVD88)

**BENCHMARK 2**  
DESIGNATION: TP-3054  
DESCRIPTION: FOUND STANDARD BRASS CAP ON HEADWALL AT NORTHWEST CORNER OF FAIRVILLA ROAD AND COLONIAL DRIVE (W)  
PUBLISHED EL. = 98.852 FT (NAVD88)

\*SOURCE OF BENCHMARK DATA:  
ORANGE COUNTY BENCHMARK DATABASE (2010)

PROJECT LOCATION

GOVERNING STANDARDS AND SPECIFICATIONS:  
Florida Department of Transportation, FY2016-17 Design Standard and revised Index Drawings as appended herein, January 2017  
Standard Specifications for Road and Bridge Construction, and 2010 Utility Accommodation Manual, as amended by Contract Documents.

For Design Standards eBook (DSeB) and applicable Design Standards Revisions (DSRs) go to the following website:  
<http://www.fdot.gov/rddesign/DesignStandards/Standards.shtm>

For Standard Specifications for Road and Bridge Construction go to the following website:  
<http://www.fdot.gov/programmanagement/Implemented/SpecBooks>

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

LENGTH OF PROJECT		
	LINEAR FT.	MILES
CANAL	-	-
BRIDGES	-	-
NET LENGTH OF PROJ.	883	0.167
EXCEPTIONS	-	-
GROSS LENGTH OF PROJ.	883	0.167

FINAL SUBMITTAL  
FEBRUARY 2017

VICINITY MAP

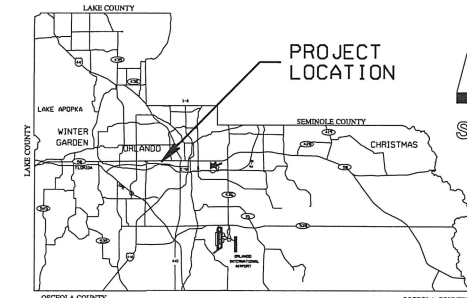
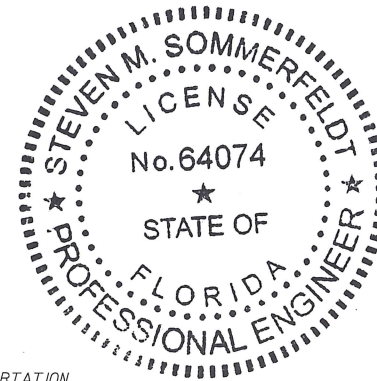
### NOTE

PLANS WERE PREPARED ACCORDING TO AVAILABLE INFORMATION TO ADEQUATELY ADDRESS CONDITIONS AS THEY EXISTED AT THE TIME OF PLANS PREPARATION. NEEDS, CONDITIONS AND OWNERSHIP OF PROPERTIES MAY HAVE CHANGED SINCE PROJECT DESIGN. THE COUNTY'S REPRESENTATIVE WILL ADDRESS CHANGES AND NEEDS WITH THE PROPERTY OWNER OR THEIR REPRESENTATIVES. CONTRACTOR SHALL WORK WITH THE COUNTY'S REPRESENTATIVE IN ADDRESSING AND MEETING NEEDS AND CONDITIONS THAT MAY HAVE CHANGED SINCE PLANS PREPARATION.

### CERTIFICATION TO PLANS

THIS IS TO CERTIFY THAT THE CONSTRUCTION PLANS AND SPECIFICATIONS AS CONTAINED HEREIN WERE DESIGNED TO APPLICABLE STANDARDS AS SET FORTH IN THE "MANUAL OF UNIFORM MINIMUM STANDARDS FOR DESIGN, CONSTRUCTION AND MAINTENANCE FOR STREETS AND HIGHWAYS", STATE OF FLORIDA, AS PREPARED BY THE FLORIDA DEPARTMENT OF TRANSPORTATION TALLAHASSEE, FLORIDA. DATED LATEST EDITION.

DATE: 3-27-17 ENGINEER: *Steven M. Sommerfeldt* REG. NO. 64074  
STEVEN M. SOMMERFELDT, P.E.



SEC. 29 TWP. 22 S RGE. 29 E

LOCATION MAP

### INDEX OF SHEETS

SHEET	DESCRIPTION
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2A	SUMMARY OF QUANTITIES
3	TYPICAL SECTIONS
4	GENERAL NOTES
5-5A	PROJECT LAYOUT
6-8	PLAN AND PROFILE SHEETS
9	TYPICAL SECTION / PLAN SHEETS
10	PLAN SHEETS
11	DRIVEWAY DETAILS
12	MISCELLANEOUS DETAILS
13-22	CROSS SECTIONS
23-24	SOIL PROFILES
25	TEMPORARY TRAFFIC CONTROL GENERAL NOTES
26	TEMPORARY TRAFFIC CONTROL TYPICAL SECTION
27	DETOUR PLAN
28-30	TEMPORARY TRAFFIC CONTROL PLAN
31	EROSION CONTROL DETAILS
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34	UTILITY ADJUSTMENTS

### UTILITIES ENCOUNTERED

AT&T	407-578-8000
AT&T - DISTRIBUTION	407-351-8180
BRIGHT HOUSE NETWORKS	407-448-5506
CITY OF ORLANDO - BUREAU OF WASTEWATER	407-246-3722
FLA. GAS TRANS.	407-838-7171
MC1	972-729-6322
ORLANDO ORANGE COUNTY EXPRESSWAY AUTHORITY	407-316-3800
ORLANDO UTILITIES COMMISSION - WATER	407-434-2558
ORLANDO UTILITIES COMMISSION - ELECTRIC	407-434-6537
TECO PEOPLES GAS	407-420-2675



Steven M. Sommerfeldt Certificate of Authorization No. 7074  
FL P.E. No. 64074 3000 Dovera Drive, Suite 200 Oviedo, FL 32765

REVISIONS	DATE	BY
SPECIFICATIONS VERSION REVISED	3/22/17	TWP

DESIGNED BY: TWP DATE: 03-2016  
DRAWN BY: TWP DATE: 11-2016  
CHECKED BY: CW DATE: 02-2017  
APPROVED BY: SMS DATE: 02-2017  
PROJECT NO: ORC-018-01

SHEET 1  
OF 34

**GENERAL NOTES**

1. ALL CONSTRUCTION WITHIN ORANGE COUNTY AND FDOT RIGHT-OF-WAY SHALL BE IN ACCORDANCE WITH AND CONFORM TO THE MOST STRINGENT REQUIREMENTS OF THE PROJECT SPECIFICATIONS, THE FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (JANUARY 2017) FDOT DESIGN STANDARDS (FY2016-17), AND SUPPLEMENTS THERETO. ALL CONSTRUCTION WITHIN ORANGE COUNTY R/W SHALL ALSO MEET ORANGE COUNTY ROAD CONSTRUCTION SPECIFICATIONS.
2. SUBSURFACE INFORMATION SHOWN ON THESE DRAWINGS WAS OBTAINED FOR USE IN ESTABLISHING TOPOGRAPHIC FEATURES FOR THE PROJECT. THE ACCURACY OF THIS INFORMATION IS NOT GUARANTEED AND IS NOT TO BE CONSTRUED AS PART OF THE PLAN GOVERNING CONSTRUCTION OF THE PROJECT. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO INQUIRE OF THE ENGINEER IF ADDITIONAL INFORMATION IS AVAILABLE, TO MAKE ARRANGEMENTS TO REVIEW SAME PRIOR TO BIDDING, AND TO MAKE HIS OWN DETERMINATION AS TO ALL SUBSURFACE CONDITIONS.
3. ALL PERSONAL PROPERTY, WITHIN THE DRAINAGE EASEMENTS AND RIGHTS-OF-WAY NOT RELOCATED BY THE PROPERTY OWNER SHALL BE RELOCATED BY THE CONTRACTOR AS NECESSARY TO CONSTRUCT THE PROJECT IN ACCORDANCE WITH THE PLANS. RELOCATION OF PERSONAL PROPERTY BY THE CONTRACTOR SHALL BE IN COORDINATION WITH THE PROPERTY OWNER. PAYMENT WILL BE INCLUDED IN CLEARING AND GRUBBING. ANY IMPACTS OUTSIDE OF THE RIGHT-OF-WAY SHALL BE BROUGHT TO THE COUNTY'S ATTENTION IMMEDIATELY AND PRIOR TO PERFORMING WORK.
4. THE DISPOSAL OF EXCESS EARTHWORK MATERIALS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. APPROVALS OF THE DISPOSAL SITES SHALL BE OBTAINED FROM ORANGE COUNTY PRIOR TO DISPOSAL. ALL EXCESS MATERIALS ARE THE PROPERTY AND RESPONSIBILITY OF THE CONTRACTOR.
5. SOD ALL DISTURBED AREAS UNLESS OTHERWISE SHOWN ON THE PLANS. SOD SHALL MATCH EXISTING TYPE SOD UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
6. INSTALL TOPSOIL TREATMENT ON ALL PERMANENT GRASS AREAS. COST TO BE INCLUDED IN CONTRACT UNIT PRICE FOR SOD.
7. PEGGED SOD TO BE PLACED ON ALL SLOPES 1:3 OR STEEPER.
8. ALL OFFSETS SHOWN ARE TO THE  $\frac{1}{2}$  OF CONSTRUCTION.
9. THE CONTRACTOR SHALL PERFORM HIS WORK IN ACCORDANCE WITH REQUIREMENTS OF THE VARIOUS PERMITS INCLUDED IN THE BID SPECIFICATIONS. PAYMENT IS INCLUDED IN THE BID PRICE FOR SECTION 104; "PREVENTION, CONTROL, AND ABATEMENT OF EROSION AND WATER POLLUTION", EXCLUDING ITEMS SPECIFIED ELSEWHERE. ENVIRONMENTAL CONTROLS SHALL BE USED AT LOCATIONS DESIGNATED IN THE PLANS AND/OR DESIGNATED BY THE ENGINEER.
10. THE INFORMATION SHOWN ON THESE DRAWINGS CONCERNING TYPE AND LOCATION OF UNDERGROUND AND OTHER UTILITIES IS BASED ON AVAILABLE RECORDS AND SURVEYS BUT IS NOT GUARANTEED TO BE ACCURATE OR ALL INCLUSIVE. THE CONTRACTOR SHALL MAKE HIS OWN DETERMINATION AS TO THE TYPE AND LOCATION OF THE UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE THERETO AND IS RESPONSIBLE FOR COORDINATING UTILITY RELOCATION WITH PROJECT CONSTRUCTION. PRIOR TO ORDERING DRAINAGE STRUCTURES, THE CONTRACTOR SHALL DETERMINE IF DRAINAGE/UTILITY CONFLICTS EXIST. INFORMATION ON CONFLICTS IS TO BE SUBMITTED TO THE ENGINEER AS SOON AS POSSIBLE AFTER DISCOVERY FOR RESOLUTION. SUNSHINE STATE ONE CALL MUST BE NOTIFIED FOR LOCATES AT 1-800-432-4770.
11. ALL EXCAVATIONS SHALL BE REQUIRED TO CONFORM TO THE PROVISIONS OF PART IV OF CHAPTER 553.60, F.S., ALSO KNOWN AS THE "TRENCH SAFETY ACT", TO PROTECT EXISTING PAVEMENT, STRUCTURES, FOUNDATIONS, AND CONSTRUCTION PERSONNEL DURING CONSTRUCTION OF THE PROJECT.
12. THE LOCATION OF ALL EXISTING UTILITY SERVICES, FACILITIES AND STRUCTURAL FEATURES SHOWN ON THE PLANS HAVE BEEN DETERMINED FROM THE BEST AVAILABLE INFORMATION AND ARE PROVIDED FOR THE CONVENIENCE OF THE CONTRACTOR. ORANGE COUNTY AND ITS REPRESENTATIVE DO NOT GUARANTEE THE ACCURACY OR COMPLETENESS OF THE LOCATION INFORMATION PROVIDED. ANY INACCURACY OR OMISSION OF SUCH INFORMATION SHALL NOT RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITY TO PROTECT SUCH EXISTING FEATURES FROM DAMAGE OR UNSCHEDULED INTERRUPTION OF SERVICES. THE CONTRACTOR SHALL HALT CONSTRUCTION AND NOTIFY THE ENGINEER IMMEDIATELY IF A DISCREPANCY BETWEEN THESE PLANS AND ACTUAL FIELD CONDITIONS ARISE THAT WOULD APPRECIABLY AFFECT THE EXECUTION OF THESE PLANS.

13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND VERIFYING ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION, AND FOR NOTIFYING THE VARIOUS UTILITY COMPANIES TO MAKE THE NECESSARY ARRANGEMENTS FOR ANY RELOCATION, DISRUPTION OF SERVICE, OR CLARIFICATION OF UTILITY ACTIVITY. THE CONTRACTOR SHALL EXERCISE CAUTION WHEN CROSSING A UTILITY, WHETHER UNDERGROUND OR OVERHEAD, WHETHER SHOWN ON THESE PLANS OR FIELD LOCATED. UTILITIES WHICH INTERFERE WITH THE PROPOSED CONSTRUCTION SHALL BE RELOCATED BY THE RESPECTIVE UTILITY COMPANY AND THE CONTRACTOR SHALL COOPERATE WITH THE UTILITY COMPANY DURING RELOCATION OPERATIONS. ANY DELAY OR INCONVENIENCE BY THE VARIOUS UTILITIES SHALL BE INCIDENTAL TO THE CONTRACT.
14. PRIOR TO EXCAVATING IN THE VICINITY OF A GAS PIPELINE THE CONTRACTOR SHALL NOTIFY THE GAS UTILITY AND ORANGE COUNTY IN ACCORDANCE WITH THE REQUIREMENTS OF THE FLORIDA STATUTES, PROTECTION OF UNDERGROUND PIPELINES, F.S. 553.851, CH. 77-143.
15. THE CONTRACTOR SHALL NOTIFY UTILITIES 72 HOURS PRIOR TO EXCAVATION IN ACCORDANCE WITH THE FLORIDA UNDERGROUND FACILITIES DAMAGE PREVENTION AND SAFETY ACT, F.S. 556.101-116. THE CONTRACTOR SHALL CALL SUNSHINE STATE ONE CALL OF FLORIDA A MINIMUM OF 48 HOURS PRIOR TO THE COMMENCEMENT OF WORK. SUNSHINE STATE ONE CALL OF FLORIDA (SSOCOF): 1-800-432-4770.

UTILITIES ENCOUNTERED INCLUDE:

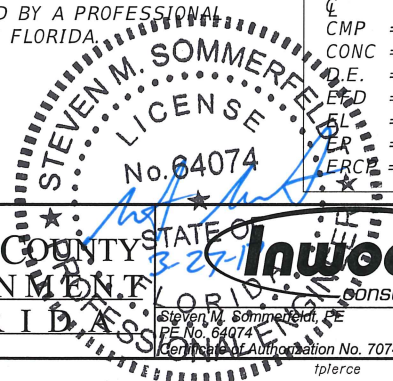
OWNER	TELEPHONE
AT&T	407-578-8000
AT&T - DISTRIBUTION	407-351-8180
BRIGHT HOUSE NETWORKS	407-448-5506
CITY OF ORLANDO - BUREAU OF WASTEWATER	407-246-3722
FLA. GAS TRANS.	407-838-7171
MCI	972-729-6322
ORLANDO ORANGE COUNTY EXPRESSWAY AUTHORITY	407-316-3800
ORLANDO UTILITIES COMMISSION - WATER	407-434-2558
ORLANDO UTILITIES COMMISSION - ELECTRIC	407-434-6537
TECO PEOPLES GAS	407-420-2675

16. ALL EXISTING DRAINAGE STRUCTURES AND PIPES WITHIN THE LIMITS OF CONSTRUCTION SHALL REMAIN, UNLESS OTHERWISE SHOWN IN THE PLANS OR DIRECTED BY THE ENGINEER.
17. ALL (P.R.M.'s) IRONS AND MONUMENTS SHOWN ON PLANS, OR FOUND, SHALL BE PRESERVED. THOSE SHOWN IN PROPOSED PAVEMENT SHALL BE PROTECTED WITH CAST IRON VALVE BOX.
18. PUBLIC LAND CORNERS WITHIN THE LIMITS OF CONSTRUCTION SHALL BE PROTECTED. IF A CORNER MONUMENT IS IN DANGER OF BEING DESTROYED OR DISTURBED, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER AND THE COUNTY SURVEYOR, WITHOUT DELAY, BY TELEPHONE 407-836-7940. THE CONTRACTOR SHALL PROVIDE WRITTEN FOLLOW UP CONFIRMATION WITHIN 48 HOURS OF TELEPHONE NOTIFICATION.
19. ANY U.S.C. AND G.S. MONUMENTS WITHIN THE LIMITS OF CONSTRUCTION SHALL BE PROTECTED. IF IN DANGER OF DAMAGE, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER, AND BOTH SHALL NOTIFY:  
  
STATE GEODETIC ADVISOR  
c/o FDEP, BUREAU OF SURVEY AND MAPPING  
3900 COMMONWEALTH BLVD., MS 105  
TALLAHASSEE, FL 32399-300  
PHONE 850-245-2606  
FAX 850-245-2645

20. PRIOR TO BEGINNING ANY CONSTRUCTION, THE CONTRACTOR SHALL SUBMIT TO ORANGE COUNTY A SET OF FIELD NOTES VERIFYING THE BENCHMARK ELEVATIONS AND THE REFERENCE POINT TIES SHOWN ON THE PROJECT LAYOUT SHEET AND PLAN AND PROFILE SHEETS, AND/OR A SET OF FIELD NOTES FOR ALL ADDITIONAL BENCHMARK AND REFERENCE POINT TIES PROPOSED TO BE USED IN CONSTRUCTING THE PROJECT WITH THEIR LOCATION, DESCRIPTION AND ELEVATION, BASED ON ORANGE COUNTY DATUM. ALL SUBMITTALS SHALL BE SIGNED AND SEALED BY A PROFESSIONAL LAND SURVEYOR REGISTERED IN THE STATE OF FLORIDA.

21. WITHIN 7 CALENDAR DAYS AFTER NOTICE TO PROCEED, THE CONTRACTOR SHALL STAKE THE RIGHT-OF-WAY/DRAINAGE EASEMENTS AT 100' INTERVALS AND AT RIGHT-OF-WAY BREAKS WITH STATIONING SHOWN ON THE STAKES. NO INVOICE FOR PAYMENT WILL BE PROCESSED UNTIL THE RIGHT-OF-WAY/DRAINAGE EASEMENT HAS BEEN STAKED TO THE SATISFACTION OF THE ENGINEER. PAYMENT IS INCLUDED IN THE PRICE BID FOR ITEM NO. 101-1 "MOBILIZATION".
22. EXISTING TRAFFIC SIGNS SHALL REMAIN IN PLACE OR BE RELOCATED AS NEEDED BY THE CONTRACTOR UNTIL THE NEW SIGNS ARE INSTALLED. THE EXISTING SIGNS SHALL BE REMOVED BY THE CONTRACTOR AND DELIVERED TO THE ORANGE COUNTY SIGN SHOP AT 4200 SOUTH JOHN YOUNG PARKWAY. COST OF RELOCATION, MAINTENANCE, REMOVAL, AND LEFTOVER SHALL BE INCLUDED IN THE PRICE BID FOR ITEM 102-1, MAINTENANCE OF TRAFFIC.
23. CONTRACTOR TO VIDEOTAPE AND PHOTOGRAPH THE LIMITS OF CONSTRUCTION BEFORE AND AFTER CONSTRUCTION AND PROVIDE A COPY TO THE COUNTY. COST TO BE INCLUDED IN THE PRICE BID FOR ITEM NO. 101-1, MOBILIZATION.
24. THE CONTRACTOR IS TO PROVIDE A WRITTEN DEWATERING PLAN WITH SCHEMATIC DRAWINGS TO THE COUNTY 2 WEEKS PRIOR TO MOBILIZATION FOR REVIEW AND APPROVAL. ALL COUNTY COMMENTS SHALL BE INCORPORATED INTO THE PLAN. COST TO PROVIDE THIS PLAN SHALL BE INCLUDED IN THE PRICE BID FOR PAY ITEM NO. 101- 1 MOBILIZATION. REFER TO THE STORMWATER POLLUTION PREVENTION SHEETS FOR FURTHER DEWATERING REQUIREMENTS.
25. THE CONTRACTOR WILL BE RESPONSIBLE FOR PROVIDING TEMPORARY DRAINAGE AND MAINTENANCE OF ALL EXISTING RUNOFF DISCHARGES DURING CONSTRUCTION TO AVOID THE TRANSPORT OF SEDIMENT AND ERODIBLE SOILS UNTIL THE WORK HAS BEEN ACCEPTED BY THE COUNTY.
26. THE CONTRACTOR SHALL BE RESPONSIBLE FOR A STAGING AREA (APPROVED BY THE ENGINEER) TO STORE EQUIPMENT, SUPPLIES, & MATERIALS, PROVIDE EMPLOYEE PARKING, ETC. FOR THE DURATION OF CONSTRUCTION. THE USE OF EXISTING COUNTY EASEMENTS AND RIGHT OF WAY SHOULD BE REQUESTED IN WRITING TO THE COUNTY FOR APPROVAL. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO KEEP THE HOA INFORMED IN REGARDS TO STAGING AREAS, PROJECT DURATION AND REMOVAL OR REPLACEMENT OF FENCE.
27. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN OF THE JACK & BORE SYSTEM. THE JACK & BORE SYSTEM DESIGN SHALL MEET THE REQUIREMENTS OF SECTION 556 OF THE FDOT STANDARD SPECIFICATIONS, CHAPTER 7 OF THE "STRUCTURES DESIGN GUIDELINES", AND FDOT UTILITY ACCOMMODATION MANUAL (2010). REFER TO THE SOIL PROFILES SHEETS FOR SOILS DATA (TB-1 AND TB-2) AT JACK & BORE PIT LOCATIONS. THE ENVIRONMENTAL CLASSIFICATION FOR THE DESIGN FOR BOTH STEEL AND CONCRETE PIPES AND ANY ASSOCIATED MINOR STRUCTURES IS "SLIGHTLY AGGRESSIVE".
28. ALL EXISTING SIGNS ARE TO REMAIN UNLESS OTHERWISE NOTED ON THE PLANS.
29. THE PAVEMENT MARKINGS AT ALL EXISTING / PROPOSED INTERFACE LOCATIONS ARE TO MATCH IN TERMS OF ALIGNMENT.
30. THE CONTRACTOR SHALL INSPECT ALL EXISTING DRAINAGE PIPES AND STRUCTURES TO BE UTILIZED WITHIN CONSTRUCTION LIMITS AND REMOVE ANY INTERNAL DEBRIS AND SAND/SILT THEREFROM

LEGEND ABBREVIATIONS		
ACB	=	ARTICULATED CONCRETE BLOCK
B	=	BASELINE
BE	=	BURIED ELECTRIC
BT	=	BURIED TELEPHONE
BTV	=	BURIED TELEVISION
CIP	=	CAST-IN-PLACE
C	=	CENTERLINE
CMP	=	CORRUGATED METAL PIPE
CONC	=	CONCRETE
D.E.	=	DRAINAGE EASEMENT
ED	=	ELLIPTICAL FRENCH DRAIN
EL	=	ELEVATION
EP	=	EDGE OF PAVEMENT
ERCP	=	ELLIPTICAL REINFORCED CONCRETE PIPE
EX	=	EXISTING
FD	=	FRENCH DRAIN
INV	=	INVERT
IRC	=	IRON ROD & CAP
LT	=	LEFT
NAVD	=	NORTH AMERICAN VERTICAL DATUM
NTS	=	NOT TO SCALE
POT	=	POINT ON TANGENT
RT	=	RIGHT
SHWL	=	SEASONAL HIGH GROUNDWATER LEVEL
STA	=	STATION
TOE	=	TOE OF SLOPE
TOB	=	TOP OF BANK
U.E.	=	UTILITY EASEMENT



**ORANGE COUNTY GOVERNMENT**  
FLORIDA  
**Inwood** consulting engineers  
3000 Dovera Drive, Suite 200  
Oviedo, Florida 32765  
p 407.971.8850

REVISIONS		
DATE	BY	DESCRIPTION
3/22/17	TWP	SPECIFICATIONS VERSION REVISED

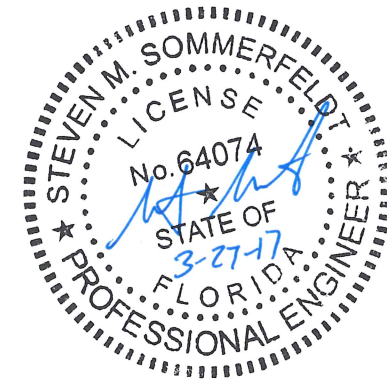
**BARRY STREET  
DRAINAGE IMPROVEMENTS**

**GENERAL NOTES**

SHEET NO.  
**4**

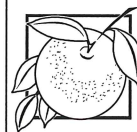
**TRAFFIC CONTROL GENERAL NOTES**

1. THE CONTRACTOR SHALL ADHERE TO THE REQUIREMENTS SET FORTH IN THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) (LATEST PUBLISHED EDITION), CHAPTER VI AND FY2016-17 FDOT DESIGN STANDARDS AT ALL TIMES. ANY AND ALL WORK CONDUCTED WITHIN THE FDOT R/W SHALL MEET AND CONFORM TO THE FY2016-17 FDOT DESIGN STANDARDS AND JANUARY 2017 SPECIFICATIONS.
2. ALL TRAFFIC CONTROL DEVICES (TEMPORARY SIGNS, PAVEMENT MARKINGS, BARRIER WALL, ETC.) REQUIRED DURING A CONSTRUCTION PHASE SHALL BE INSTALLED AND APPROVED BY THE TRAFFIC OPERATIONS ENGINEER PRIOR TO COMMENCEMENT OF CONSTRUCTION AND WILL BE MAINTAINED IN ACCORDANCE WITH INDEX 600 OF THE FY2016-17 FDOT DESIGN STANDARDS AND JANUARY 2017 SPECIFICATIONS.
3. ALL SIGNS 48" X 48" OR LARGER SHALL BE MAINTAINED ON TWO (2) BREAKAWAY SUPPORTS OR YIELDING POSTS AS SHOWN IN FIGURE 6-1 OF THE MUTCD. THE CONTRACTOR SHALL USE THE MUTCD TO DETERMINE THE APPROPRIATE PLACEMENT AND ELEVATION OF CONSTRUCTION SIGNS. REFLECTIVITY SHALL ADHERE TO THE FY2016-17 FDOT STANDARDS AND JANUARY 2017 SPECIFICATIONS FOR ROADS AND BRIDGE CONSTRUCTION.
4. VEHICULAR ACCESS TO RESIDENCES AND BUSINESSES WILL BE MAINTAINED AT ALL TIMES.
5. ALL OPERATIONS REQUIRING LANE CLOSURES SHALL BE SUBMITTED TO THE ORANGE COUNTY TRAFFIC OPERATIONS ENGINEER WITH LANE CLOSURES DATA SHEET AS REQUIRED BY FDOT.
6. EASTBOUND LANE CLOSURES ARE PROHIBITED BETWEEN THE HOURS OF 7:00AM AND 9:00AM. WESTBOUND LANE CLOSURES ARE PROHIBITED BETWEEN THE HOURS OF 3:00PM AND 7:00PM.
7. THE EXISTING REGULATORY POSTED SPEED OF 45 MPH WILL BE MAINTAINED DURING ALL PHASES OF CONSTRUCTION ON COLONIAL DRIVE.
8. TRAFFIC CONDITIONS, ACCIDENTS AND OTHER UNFORSEEN EMERGENCY CONDITIONS MAY REQUIRE THE TRAFFIC OPERATIONS ENGINEER TO MODIFY CHANNELIZATIONS. THE CONTRACTOR WILL MAKE THE NECESSARY ADJUSTMENTS AS DIRECTED BY THE TRAFFIC OPERATIONS ENGINEER WITHOUT DELAY.
9. THE CONTRACTOR WILL PROVIDE OFF DUTY LAW ENFORCEMENT OFFICER(S) TO BE USED FOR TRAFFIC CONTROL FOR MAJOR CHANGES IN TRAFFIC MOVEMENTS (INTERSECTION CHANGES, ETC.) AS DIRECTED BY THE TRAFFIC OPERATIONS ENGINEER. THE COST SHALL BE INCLUDED IN THE PRICE OF BID ITEM NO. 102-14.
10. ALL TEMPORARY MARKINGS SHALL BE IN PLACE ONE (1) HOUR BEFORE SUNSET.
11. IF THE CONTRACTOR ELECTS TO USE TEMPORARY SHEET PILING OR SHORING FOR THE INSTALLATION OF THE STORM DRAIN SYSTEM, ALL SUCH SHORING OR SHEETING SHALL BE REMOVED AFTER STORM DRAIN SYSTEM INSTALLATION IS COMPLETE. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO ORANGE COUNTY FOR REVIEW AND APPROVAL. SHOP DRAWINGS MUST BE SIGNED AND SEALED BY A PROFESSIONAL ENGINEER.
12. THE CONTRACTOR SHALL PROVIDE TEMPORARY DRAINAGE TO THE DOWNSTREAM RECEIVING WATER BODY IF CONSTRUCTION ACTIVITIES OBSTRUCT THE NORMAL DRAINAGE FLOW PATH. ANY PUMP SYSTEMS SHALL BE ADEQUATE FOR NORMAL FLOWS ANTICIPATED.
13. PORTABLE CHANGEABLE MESSAGE SIGNS ARE TO BE USED AT PROJECT TERMINI FOR 14 DAYS IMMEDIATELY BEFORE BEGIN CONSTRUCTION. THE MESSAGE TO BE USED ON PORTABLE CHANGEABLE MESSAGE SIGNS WILL BE ESTABLISHED AT THE PRECONSTRUCTION CONFERENCE.
14. CONTRACTOR SHALL COORDINATE WITH LYNX REGARDING ANY CONSTRUCTION ACTIVITIES IMPACTING LYNX TRANSIT OPERATIONS.



REVISIONS		
DATE	BY	DESCRIPTION
3/22/17	TWP	SPECIFICATIONS VERSION REVISED

**BARRY STREET  
DRAINAGE IMPROVEMENTS**



**ORANGE COUNTY  
GOVERNMENT  
FLORIDA**



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**TEMPORARY TRAFFIC CONTROL  
GENERAL NOTES**

SHEET  
NO.  
  
25

The following narrative is the Stormwater Pollution Prevention Plan and contains references to the FDOT Standard Specifications for Road and Bridge Construction (January 2017), the FDOT Design Standards (FY2016-17), and other sheets of these construction plans. The first sheet of the construction plans (called the Key Sheet) contains an index to the other sheets. The complete Stormwater Pollution Prevention Plan includes several items:

- \* this narrative description,
- \* the documents referenced in this narrative,
- \* the Contractor's approved Erosion Control Plan required by Section 104 of the FDOT Standard Specifications for Road and Bridge Construction (January 2017) hereinafter referred to as the 'Section 104 Erosion Control Plan', and
- \* reports of inspection made during construction.

**1.0 SITE DESCRIPTION**

**1.a Nature of Construction Activity:**

The project is the construction of stormwater culverts along Fairvilla Road and the cross drain at SR 50. The project area includes approximately 660 linear feet of the west right-of-way along Fairvilla Road and approximately 140 linear feet within the intersection of Fairvilla Road and SR 50. The project begins approximately 660' south of the intersection with SR 50, and ends at approximately the northwest corner of the Fairvilla Road and SR 50 intersection.

**1.b Sequence of Major Soil Disturbing Activities:**

In the Section 104 Erosion Control Plan, the Contractor shall provide a detailed sequence of construction for all construction activities. The Contractor shall follow the sequence of major activities described below, unless the Contractor proposes a different sequence that is equal or better at controlling erosion and trapping sediment and is approved by the County.

1. Excavate the unwanted, existing soils to be hauled overland for proper disposal. Remove existing soils and prepare the area for proposed improvements.
2. Construct the proposed inlets, manholes and culverts.
3. Stabilize the site with asphalt, concrete and sod.

**1.c Area Estimates:**

Total project area: 37.2 acre.  
Total area to be disturbed: 0.37 acre.

**1.d Runoff Data:**

**Runoff Coefficients**

Runoff Coefficient for Impervious Areas: C = 0.95  
Runoff Coefficient for Pervious Areas: C = 0.25  
Runoff Coefficient for Wet Areas: C = 1.00

**Weighted Runoff Coefficients**

(B)efore Construction Runoff Coefficient: C(b) = 0.40  
(A)fter Construction Runoff Coefficient: C(a) = 0.40  
(D)uring Construction Runoff Coefficient:  
C(d) varies from 0.25 to 0.52

**1.e Soils Data:**

The soils are generally stratified into two layers. The uppermost soil layer is grayish brown and light brown fine sand to a depth of 4-6 ft below grade. The next layer is generally brown silty fine sand which is slightly silty and clayey at some locations.

**1.f Outfall Information Description:**

The existing system outfalls to Lake Lawne through the SR 50 stormwater system.

**1.g Site Map:**

The construction plans are being used as the site maps. The location of the required information is described below. The sheet numbers for the plan sheets referenced are identified on the Key Sheet of these construction plans.

\* **Drainage Patterns:**  
The existing drainage basins and flow directions remain unchanged.

\* **Approximate Slopes:**  
The slopes of the site can be seen in the Cross Section Sheets and Plan and Profile Sheets.

\* **Areas of Soil Disturbance:**  
The areas to be disturbed are indicated on the Plan Sheets and the Cross Section Sheets.

\* **Areas Not To Be Disturbed:**  
The areas not to be disturbed are indicated by the Contractor's Erosion Control Plan.

\* **Locations of Temporary Controls:**  
The temporary erosion control measures include silt fencing, inlet protection, and additional measures as indicated in the State of Florida Erosion and Sediment Control Designer and Reviewer Manual (E&SC Manual), or as required by the County.

The Summary of Quantities provides quantities for silt fencing and inlet protection systems.

\* **Locations of Permanent Controls:**  
The permanent erosion control measures include sodding of pervious areas. The Summary of Pay Items provides quantities for sodding.

\* **Areas To Be Stabilized:**  
- Temporary stabilization practices are shown in the Contractor's Erosion Control Plan.  
- Permanent stabilization is shown on the Plan and Profile Sheets or cross section sheets where appropriate.

\* **Surface Waters:**  
This project drains north via the proposed culverts to the SR 50 stormwater system, which outfalls to Lake Lawne.

\* **Discharge Points To Surface Waters:**  
The discharge is shown on the Plan Sheets.  
Locations: Lake Lawne - N: 1535735.62, E: 515344.75

\* **Receiving Waters:**  
Receiving Water Name: Lake Lawne

**2.0 CONTROLS:**

**2.a Erosion And Sediment Controls:**

In the Section 104 Erosion Control Plan, the Contractor shall describe the proposed stabilization and structural practices based on the Contractor's proposed Traffic Control Plan. The following recommended guidelines are based on the Traffic Control Plan (TCP) outlined in the construction plans. Where following the Traffic Control Plan (TCP) outlined in these construction plans, the Contractor may choose to accept the following guidelines or modify them in the Section 104 Erosion Control Plan, subject to approval of the County Engineer. As work progresses, the Contractor shall modify the plan to adapt to seasonal variation, changes in construction activities, and the need for better practices.

**2.a.1 Stabilization Practices:**

In the Section 104 Erosion Control Plan, the Contractor shall describe the stabilization practices proposed to control erosion. The Contractor shall initiate all stabilization measures as soon as practical, but in no case more than 7 days, in portions of the site where construction activities have temporarily or permanently ceased. The stabilization practices shall include at least the following, unless otherwise approved by the County Engineer.

**Temporary:**

\* Artificial coverings in accordance with FDOT Specification Section 104.

\* Sod in accordance with Specification Section 104.

**Permanent:**

\* Sod in accordance with Specification Section 575.

**2.a.2 Structural Practices:**

In Section 104 Erosion Control Plan, the Contractor shall describe the proposed structural practices to control or trap sediment and otherwise prevent the discharge of pollutants from exposed areas of the site. Sediment controls shall be in place before disturbing soil upstream of the control. The structural practices shall include at least the following unless otherwise approved by the County Engineer.

**Temporary:**

\* Silt fence in accordance with E&SC Manual and Specification Section 104.

\* Inlet protection in accordance with E&SC Manual and Specification Section 104.

**Permanent:**

\* Sod.

**2.b Stormwater Management:**

A Storm Drain System will be constructed to convey runoff downstream.

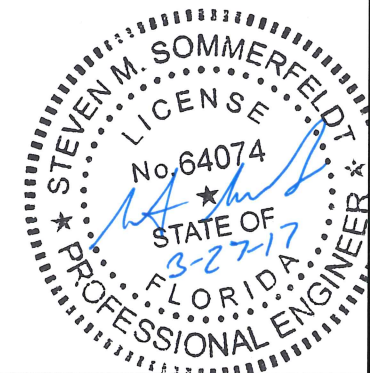
**2.c Other Controls:**

**2.c.1 Waste Disposal:**

In the Section 104 Erosion Control Plan, the Contractor shall describe the proposed methods to prevent the discharge of solid materials, including building materials, to waters of the United States. The proposed methods shall include at least the following, unless otherwise approved by the County.

\* Providing litter control and collection within the project during construction activities.

CONTINUED ON NEXT SHEET



REVISIONS			BARRY STREET DRAINAGE IMPROVEMENTS	 <b>ORANGE COUNTY GOVERNMENT FLORIDA</b>	 Steven M. Sommerfeldt, PE PE No. 64074 Certificate of Authorization No. 7074	<b>STORMWATER POLLUTION PREVENTION PLAN</b>	SHEET NO.
DATE	BY	DESCRIPTION					32
3/22/17	TWP	SPECIFICATIONS VERSION REVISED					