



# LAKE COUNTY

## FLORIDA

OFFICE OF PROCUREMENT SERVICES  
315 WEST MAIN STREET, SUITE 441  
PO BOX 7800  
TAVARES FL 32778-7800

PHONE: (352) 343-9893  
FAX: (352) 343-9473

### **ADDENDUM NO. 3**

**Date: April 23, 2013**

**ITB / RFP No. 13-0027**

**ITB/RFP Title: South Lake Trail Phase 3A**

It is the vendor's responsibility to ensure their receipt of all addenda, and to clearly acknowledge all addenda within their initial bid or proposal response. Acknowledgement may be confirmed either by inclusion of a signed copy of this addendum with the initial bid or proposal response, or by completion and return of the addendum acknowledgement section of the solicitation. Failure to acknowledge each addendum may prevent the bid or proposal from being considered for award.

This addendum changes the date for the revised receipt of bids or proposals from May 1, 2013 to May 8, 2013.

This addendum includes alternate plan revisions.

This addendum includes the engineers estimate for informational purposes.

This addendum is to answer questions received from firms concerning the above mentioned RFP:

#### **Bid Document Changes and /or Additions:**

1. Delete original Section W from the Bid Manual (Pages W-1 through W-8) and Add new Section W in its place (Pages W-1 through 13).
2. Add Alternate A Plans (Sheets 1 through 9).
3. Add Alternate B Plans (Sheets 1 through 13).

#### **Questions and Responses:**

##### **Question #1:**

The list of pay items on the cover page of the bridge plans show pay item 530-3-3 Rubble Rip Rap, Bank and Shore for the CR 561A Widening. The only reference in the structure plans to this work is on plan sheet B2-03 without a calling. Please provide detail for this work and confirm location.

##### **Answer to Question #1:**

The pay item 530-3-3 on sheet B1-1 is errant and should be omitted. The small region on B2-03 represents repair to the existing Fabric-Formed Concrete due to the construction of the retaining wall.

For clarity during bidding, the contractors should be instructed to omit the above pay item but be aware that the repair of the existing Fabric-Formed Concrete shall be included in the cost of pay item number 400-2-11 Conc. Class II (Retaining Walls).

**Question #2:**

Are the load ratings for the proposed CR 561A Bridge widening available?

**Answer to Question #2:**

The load rating appears on sheet B2-17 of the plan set for the widening. The pedestrian bridge is not load rated, as it doesn't carry vehicular traffic.

**Question #3:**

Can a new bid form be issued using the pay items that are included in front of each set of plans? It would help eliminate confusion.

**Answer to Question #3:**

The bid form was modified by addendum #1 to include alternate work items. The bid will not be revised to reflect quantity information as shown on the plan sheet.

**Question #4:**

In the addenda, the revised bid form added Alternate 1, will we be receiving plans reflecting the work requested in the Alternate? The plans that were attached do not show a Round-A-Bout nor do the plans in the Inland Groves folder on the FTP site.

**Answer to Question #4:**

Plans are posted on FTP site at following link: <ftp://tftp1:t2000@ftp.tierraeng.com>

**Question #5:**

Can you elaborate as to what A2 and A3 consist of in the Alternate as opposed to the base bid:

**Answer to Question #5:**

See Revised Tabulation of Estimated Quantities, Section W, Alternate A Plans and Alternate B Plans.

**Question #6:**

Currently there is a concrete sidewalk for the length of the requested work on Silver Eagle that is not shown on the plans. Is this sidewalk to remain or is it to be removed and replaced with the proposed asphalt trail?

**Answer to Question #6:**

The trail construction along Silver Eagle is not part of the Phase IIIA construction.

**Question #7:**

Are cover plates required at the Expansion Joint locations on the Boardwalk bridge?

**Answer to Question #7:**

Yes, see sheet B1-20, note in the lower left hand side.

**Question #8:**

At the Bridge Widening, will cover plates be required at the Expansion Joints? If so, will the Contractor be required to remove the existing cover plate and install a new cover plate the full width of the proposed trail or is the Contractor to assume furnishing a cover plate only as wide as the limits of new construction?

**Answer to Question #8:**

Yes, a new cover plate across the entire path width is required.

**Question #9:**

If cover plates are required at the Bridge Widening (above question), is it acceptable to install a Poured Joint with Backer Rod (FDOT Index #21110) rather than the Strip Seal Expansion Joint (FDOT Index #21100) since the entire joint on the trail will be covered with a cover plate?

**Answer to Question #9:**

No, the joint specified in the plans is required as it matches the existing joint in type as shown on sheets EX35 and EX51.

**Question #10:**

Are the railings on the Boardwalk and Bridge Widening to be paid for under Bid Item Nos. 48 & 50 or included in the lump sum Item Nos. 55 & 57?

**Answer to Question #10:**

See Revised Tabulation of Estimated Quantities, Section W.

**Question #11:**

Bid Item No. 55, Boardwalk Bridge Construction is lump sum. In review of the deep soil borings on Plan Sheet B1-6 it appears that there is a high variability in suitable foundation strata. FDOT makes pay adjustments on lump sum bridge projects for piling in accordance with Supplemental Specification 9-2.2.2. Will the County provide quantity adjustments for increased or decreased pile lengths in accordance with FDOT guidelines?

**Answer to Question #11:**

As discussed in the Pre-Bid meeting, there will be no pay adjustments for piling increases or decreases.

**Question #12:**

On Plan Sheet B1-8, Note 8 references the requirement for high strength driving shoes. This note appears to be a carry-over from a previous project. Will this note be removed from the contract plans?

**Answer to Question #12:**

This is not a carry over. It is a requirement for this project. See geotechnical report dated October 12, 2001 by Andreyev Engineering Inc. page (5 of 5) paragraph 3.

**Question #13:**

Will the County provide the PDA testing and recommendation of pile casting lengths and driving criteria?

**Answer to Question #13:**

The County will provide PDA testing of the 4 test piles and provide pile casting lengths based on these results. Any additional PDA testing will be the responsibility of the Contractor. The Contractor may elect to perform additional PDA tests to verify pile capacities that have not met the original driving criteria.

**Question #14:**

Will the Boardwalk Bridge and CR 561 widening be able to support a concrete truck and slip form

machine to install the Pedestrian/Bicycle railing (Index 820)?

**Answer to Question #14:**

The plans provide information regarding the design specifications used and design load for the widening (See sheet B2-1). It is the contractor's responsibility to determine if the construction loads exceed that of design and plan his work accordingly.

**Question #15:**

The bridge plans dated 06/05/12 for the CR 561A over Lake Minneola list the bridge number as 114091 while the existing bridge plans dated 03/17/98 on sheet C1 list the bridge number as 114046. Please confirm these are the correct numbers and the corresponding new bridge widening is 114091.

**Answer to Question #15:**

The bridge number is correct as shown in the Proposed Plans – 114091.

Firm Name: \_\_\_\_\_ Date: \_\_\_\_\_

Signature: \_\_\_\_\_ Title: \_\_\_\_\_

Typed/Printed Name: \_\_\_\_\_

**DIVISION W**

**BID FORM**

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COMPANY NAME

NOTE: BIDDER SHALL SUBMIT BID IN DUPLICATE ON FORM PROVIDED HEREIN.

**BID**

OF

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(Name)

---

(Address)

( ) \_\_\_\_\_  
(Phone No.)

FOR

BID NO. 13-0027  
South Lake Trail Phase IIIA  
PROJECT NO. 2013-03  
FPN: 422570-2-58-01, FAN: 8886-257-A

Lake County, Florida

Submitted \_\_\_\_\_ 20\_\_

TO THE COUNTY OF LAKE, FLORIDA:

We, the undersigned, hereby declare that no person or persons, firm or corporation, other than the undersigned, are interested in this proposal, as principals, and that this Bid is made without collusion with any person, firm or corporation, and we have carefully and to our full satisfaction examined the Special Provisions and form of Contract and Bond, together with the approved Plans and Specifications for the above described project, and that we have made a full examination of the location of the proposed work and the source of supply of materials, and we hereby agree to furnish all necessary labor, equipment, and materials, fully understanding that the quantities shown herewith are approximate only, and that we will fully complete all necessary work in accordance with the Plans and Specifications, and the requirements under them of the Engineer, within the time limit specified in this Bid for the following unit values, to-wit:

**TABULATION OF ESTIMATED QUANTITIES**  
**South Lake Trail Phase IIIA**  
**Project No. 2013-03, Bid No. 13-0027**

ITEM NO.	PAY ITEM DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	AMOUNT
	<b>Roadway</b>				
102 1	MAINTENANCE OF TRAFFIC	LS			
102 60	WORK ZONE SIGN	ED			
102 71 14	BARRIER WALL, TEMPORARY, F&I, TYPE K	LF			
102 74 1	BARRICADE, TEMPORARY, TYPES I, II, DI, VP & DRUM	ED			
102 77	HIGH INTENSITY FLASHING LIGHT, TEMPORARY, TYPE B	ED			
104 10 3	SEDIMENT BARRIER	LF			
104 11	FLOATING TURBIDITY BARRIER	LF			
104 15	SOIL TRACKING PREVENTION DEVICE	EA			
104 18	INLET PROTECTION SYSTEM	EA			
110 1 1	CLEARING & GRUBBING	AC			
120 1	REGULAR EXCAVATION	CY			
120 6	EMBANKMENT	CY			
120 72	GRAVEL FILL	CY			
160 4	TYPE B STABILIZATION	SY			
285 704	OPTIONAL BASE, BASE GROUP 04	SY			
286 1	TURNOUT CONSTRUCTION	SY			
334 113	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	TN			
339 1	MISCELLANEOUS ASPHALT PAVEMENT	TN			
400 0 11	CONC CLASS NS, GRAVITY WALL	CY			
400 1 1	CONC CLASS I, CULVERTS	CY			
400 2 2	CONC CLASS I, ENDWALLS	CY			

**TABULATION OF ESTIMATED QUANTITIES**  
**South Lake Trail Phase IIIA**  
**Project No. 2013-03, Bid No. 13-0027**

425	1	521	INLETS, DT BOT, TYPE C, <10'	EA			
425	1	541	INLETS, DT BOT, TYPE D, <10'	EA			
425	1	551	INLETS, DT BOT, TYPE E, <10'	EA			
425	175	41	MANHOLES, P-7, <10'	EA			
430	175	118	PIPE CULV, OPT MATL, ROUND, 18" S/CD	LF			
430	175	124	PIPE CULV, OPT MATL, ROUND, 24" S/CD	LF			
430	175	212	PIPE CULV, OPT MATL, OTHER, 12" S/CD	LF			
430	175	218	PIPE CULV, OPT MATL, OTHER, 18" S/CD	LF			
430	175	236	PIPE CULV, OPT MATL, OTHER, 36" S/CD	LF			
430	984	125	MITERED END SECT, OPTIONAL RD, 18" SD	EA			
430	984	129	MITERED END SECT, OPTIONAL RD, 24" SD	EA			
430	984	621	MITERED END SECT, OPT/ELLIP/ARCH, 12" SD	EA			
430	984	625	MITERED END SECT, OPT/ELLIP/ARCH, 18" SD	EA			
430	984	638	MITERED END SECT, OPT/ELLIP/ARCH, 36" SD	EA			
515	2	202	PEDESTRIAN / BICYCLE RAILING, STEEL, 54" PICKET RAIL	LF			
519	78		BOLLARDS	EA			
520	1	10	CONCRETE CURB & GUTTER, TYPE F	LF			
520	2	2	CONCRETE CURB, TYPE B	LF			
522	1		SIDEWALK CONC, 4" THICK	SY			
522	2		SIDEWALK CONC, 6" THICK	SY			
524	1	1	CONCRETE DITCH PAVEMENT, NR, 3"	SY			
530	3	4	RIPRAP - RUBBLE, DITCH LINING	TN			
536	1	1	GUARDRAIL- ROADWAY	LF			
536	73		GUARDRAIL REMOVAL	LF			

**TABULATION OF ESTIMATED QUANTITIES**  
**South Lake Trail Phase IIIA**  
**Project No. 2013-03, Bid No. 13-0027**

536	85	22	GUARDRAIL END ANCHORAGE ASSEMBLY- FLARED	EA			
550	10	220	FENCING, TYPE B, 5.1-6.0', STANDARD	LF			
550	10	929	FENCING, SPECIAL TYPE, 5.1-6.0', SPECIAL FEATURES	LF			
550	60	223	FENCE GATE, TYPE B, DOUBLE, 12.1-18.0' OPENING	EA			
550	60	224	FENCE GATE, TYPE B, DOUBLE, 18.1-20.0' OPENING	EA			
570	1	2	PERFORMANCE TURF, SOD	SY			
700	20	11	SINGLE POST SIGN, F&I, LESS THAN 12	AS			
700	20	40	SINGLE POST SIGN, RELOCATE	AS			
706	3		RETRO-REFLECTIVE PAVEMENT MARKER	EA			
710	11	125	PAINTED PAVT MARK,STD,WHITE,SOLID,24"	LF			
710	11	170	PAINTED PAVT MARK,STD,WHITE,ARROWS	EA			
710	11	180	PAINTED PAVT MARK,STD,WHITE,YIELD LINE	LF			
710	11	211	PAINTED PAVT MARK,STD,YELLOW,SOLID,6"	NM			
710	11	224	PAINTED PAVT MARK,STD,YELLOW,SOLID,18"	LF			
711	11	123	THERMOPLASTIC, STD, WHITE, SOLID, 12"	LF			
711	11	160	THERMOPLASTIC, STD, WHITE, MESSAGE	EA			
711	11	211	THERMOPLASTIC, STD,YELLOW, SOLID, 6"	NM			
1050	11	222	UTILITY PIPE, PVC, 4"	LF			
			CONTINGENCY AMOUNT	LS			
<b>Roadway Lump Sum Sub Total</b>							

ITEM NO.	Structures (Boardwalk)		UNIT	QUANTITY	UNIT PRICE	AMOUNT
400	2	10	CONC CLASS II (APPROACH SLABS)	CY		
400	4	4	CONC CLASS IV (SUPERSTRUCTURE)	CY		

**TABULATION OF ESTIMATED QUANTITIES**  
**South Lake Trail Phase IIIA**  
**Project No. 2013-03, Bid No. 13-0027**

400	4	5	CONC CLASS IV (SUBSTRUCTURE)	CY				
400	147		COMPOSITE NEOPRENE PADS	CF				
415	1	4	REINF STEEL (SUPERSTRUCTURE)	LB				
415	1	5	REINF STEEL (SUBSTRUCTURE)	LB				
415	1	9	REINF STEEL (APPROACH SLABS)	LB				
450	3	21	PRESTRESSED SLAB UNITS (60'X12")*	LF				
455	34	3	CONCRETE PILE PRESTRESSED (18" SQ.)	LF				
455	143	3	TEST PILES (PRESTRESSED CONCRETE)(18" SQ.)	LF				
460	70	3	ALUMINUM RAILINGS (TRIPLE RAIL)**	LF				
521	6	1	CONC PARAPET (PEDEST/BICYCLE)	LF				
524	2	2	SLOPE PAVT CONC (4")	SY				
			CONTINGENCY AMOUNT	LS				
<b>Structures (Boardwalk) Lump Sum Sub Total</b>								

ITEM NO.	Structures (Widening)		UNIT	QUANTITY	UNIT PRICE	AMOUNT
110	3		STRUCTURAL REMOVAL OF EXISTING	LS		
400	2	4	CONCRETE CLASS II (SUPERSTRUCTURE)	CY		
400	2	10	CONC CLASS II (APPROACH SLABS)	CY		
400	2	11	CONC CLASS II (RETAINING WALLS)	CY		
400	143		CONCRETE SURFACE CLEANING & COATING	LS		
415	1	3	REINFORCING STEEL (RETAINING WALLS)	LB		
415	1	4	REINFORCING STEEL (SUPERSTRUCTURE)	LB		
415	1	9	REINFORCING STEEL (APPROACH SLABS)	LB		
460	70	2	ALUMINUM RAILINGS (DOUBLE RAIL)**	LF		

**TABULATION OF ESTIMATED QUANTITIES**  
**South Lake Trail Phase IIIA**  
**Project No. 2013-03, Bid No. 13-0027**

460	70	3	ALUMINUM RAILINGS (TRIPLE RAIL)**	LF				
521	6	1	CONC PARAPET (PEDEST/BICYCLE)	LF				
530	3	3	RIPRAP - RUBBLE, BANK AND SHORE	TN				
<b>Structures (Widening) Lump Sum Sub Total</b>								

<b>Total Lump Sum Base Bid (Figures):</b>	
<b>Total Lump Sum Base Bid (Words):</b>	
<b>Number of Calendar Days to Complete:</b>	<b>Three Hundred Sixty Five (365)</b>

**TABULATION OF ESTIMATED QUANTITIES**  
**South Lake Trail Phase IIIA**  
**Project No. 2013-03, Bid No. 13-0027**

ITEM NO.	PAY ITEM DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	AMOUNT
<b>Alternate A - Trail Construction: Sta 773+17 to Sta 785+35 (Trail Alternate A and B Start to Trail Alternate A and B End)</b>					
1	CONCRETE, 6" THK, 4,000 PSI	SY			
2	ASPHALT CONCRETE, SP 9.5, 1 1/2"	SY			
3	6" LIMEROCK BASE (LBR 100)	SY			
4	6" STABILIZED SUBGRADE (LBR 40), TYPE B	SY			
5	SOD	SY			
6	24" X 24" (R5-3) SIGN	EA			
7	18" X 18" (R1-1) SIGN	SF			
8	30"x30" (W11-2) SIGN	EA			
9	18" X18" (W3-1) SIGN	EA			
10	24" X 18" (D11-1) SIGN	EA			
11	12" X 9" (M7-5) SIGN	EA			
12	24" X 12" (W16-7P) SIGN	EA			
13	TRUNCATED DOME PAVER BRICKS	SF			
<b>(A) Alternate A Total Lump Sum:</b>					

**TABULATION OF ESTIMATED QUANTITIES**  
**South Lake Trail Phase IIIA**  
**Project No. 2013-03, Bid No. 13-0027**

ITEM NO.	PAY ITEM DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	AMOUNT
Alternate B - Trail and Roundabout Construction: Sta 773+17 to Sta 785+35 (Trail Alternate A and B Start to Trail Alternate A and B End)					
1	PAVEMENT MILLING 1-1/2" DEEP	SY			
2	PAVERS	SF			
3	CONCRETE, 6" THK, 4,000 PSI, WITH FIBER MESH	SY			
4	CURB & GUTTER, TYPE D	LF			
5	CURB & GUTTER, MODIFIED TYPE RA	LF			
6	CURB & GUTTER, MODIFIED TYPE F	LF			
7	SUPERPAVE ASPHALT CONCRETE	TN			
8	LIMEROCK, 10"	SY			
9	LIMEROCK, 12"	SY			
10	STABILIZED SUBGRADE, 12" THK	SY			
11	STABILIZED SHOULDER, 6" THK	SY			
12	6" PVC	LF			
13	SOD (PERIMETER OF ROUNDABOUT / LANDSCAPED ISLANDS)	SY			
14	TRUNCATED DOME PAVERS	SF			
15	30"x30" ROUNDABOUT CIRCULATION (R6-5P) PLAQUE	EA			
16	36"x36"x36" CONSTRUCTION YIELD (R1-2) SIGN	EA			
17	48"x24" ROUNDABOUT DIRECTIONAL (6-4A) SIGN	EA			
18	EXISTING ROAD DEMOLITION (COUNTY ROAD 561)	SY			
19	18" MES, CONCRETE, ROUND	EA			
20	PIPE CULVERT, RCP, 18"	LF			
21	INLET, DITCH BOTTOM, TYPE C	EA			
22	PAVEMENT MARKINGS, YELLOW/WHITE, STD	LS			

**TABULATION OF ESTIMATED QUANTITIES**  
**South Lake Trail Phase IIIA**  
**Project No. 2013-03, Bid No. 13-0027**

23	SITE LIGHTING FIXTURE AND POLE, TYPE SLA	EA			
24	LANDSCAPE UPLIGHTS, TYPE SLB	EA			
25	ELECTRICAL PULL BOX	EA			
26	1" CONDUITS BELOW GRADE WITH BRANCH CIRCUIT WIRING FOR LTG	LF			
27	TEMPORARY ELECTRICAL SERVICE WITH METER AND PANEL	EA			
28	LIGHTING CONTROL CONTACTOR	EA			
29	RELOCATION TREE	EA			
<b>(B) Alternate B Total Lump Sum:</b>					

- (A) Acceptance of Alternate A Trail Construction will include deletion of Original Trail Bid Work Quantities from Sta 773+17 to Sta 785+35.
- (B) Acceptance of Alternate B Trail and Roundabout Construction will include deletion of Original Trail Bid Work Quantities from Sta 773+17 to Sta 785+35.

Work performed under this contract shall be based on a total lump sum base bid. Quantities shown in this bid form and the construction plan are estimated for bidding purposes only and shall be verified by the contractor.

**TABULATION OF ESTIMATED QUANTITIES**  
**South Lake Trail Phase IIIA**  
**Project No. 2013-03, Bid No. 13-0027**

The undersigned further agrees to execute the Contract within ten (10) calendar days after receipt of notice of award, and within the time frame of Division X.

The undersigned further agrees to bear the full cost of maintaining all work until the final acceptance.

The undersigned further declares that his Bid is based on specifications as modified by the following Addenda:

Addendum No. \_\_\_\_\_ Dated \_\_\_\_\_ Addendum No. \_\_\_\_\_ Dated \_\_\_\_\_  
Addendum No. \_\_\_\_\_ Dated \_\_\_\_\_ Addendum No. \_\_\_\_\_ Dated \_\_\_\_\_  
Addendum No. \_\_\_\_\_ Dated \_\_\_\_\_ Addendum No. \_\_\_\_\_ Dated \_\_\_\_\_

The undersigned Contractor's address and principal place of business is \_\_\_\_\_  
\_\_\_\_\_.

If Contractor is a corporation list the names, titles, and business addresses of its President, Secretary and Treasurer:

1. PRESIDENT \_\_\_\_\_ Address \_\_\_\_\_  
(Name)
2. SECRETARY \_\_\_\_\_ Address \_\_\_\_\_  
(Name)
3. TREASURER \_\_\_\_\_ Address \_\_\_\_\_  
(Name)

**Reciprocal Vendor Preference**

Vendors are advised the County has established, under Lake County Code, Chapter 2, Article VII, Sections 2-221 and 2-222 (see below); a process under which a local vendor preference program applied by another county may be applied in a reciprocal manner within Lake County. The following information is needed to support application of the Code:

1. Primary business location of the responding vendor (city/state): \_\_\_\_\_

2. Does the responding vendor maintain a significant physical location in Lake County at which employees are located and business is regularly transacted:  Yes  No If "yes" is checked, provide supporting detail:

\_\_\_\_\_  
\_\_\_\_\_

**TABULATION OF ESTIMATED QUANTITIES**  
**South Lake Trail Phase IIIA**  
**Project No. 2013-03, Bid No. 13-0027**

Said corporation is qualified to do business in the State of Florida.

\_\_\_\_\_  
Corporate Name

By: \_\_\_\_\_  
\_\_\_\_\_, President  
(Print Name)

\*\*\*CORPORATE SEAL\*\*\*

\_\_\_\_\_  
or Qualifying Agent

\_\_\_\_\_  
Contractor's Registration or Certification No.

If Contractor is not a corporation, list the name(s) and business address(es) of its owner(s), joint venturers or partners:

1. \_\_\_\_\_ Address \_\_\_\_\_  
(Name)

2. \_\_\_\_\_ Address \_\_\_\_\_  
(Name)

3. \_\_\_\_\_ Address \_\_\_\_\_  
(Name)

The said company or business entity is a sole proprietorship, partnership, or joint venture and is trading and doing business as \_\_\_\_\_ (Company Name).

By:

\_\_\_\_\_  
Name of Firm or Qualifying Agent

\_\_\_\_\_  
Contractor's Registration or Certification No.

**TABULATION OF ESTIMATED QUANTITIES**  
**South Lake Trail Phase IIIA**  
**Project No. 2013-03, Bid No. 13-0027**

**FLORIDA TRENCH SAFETY ACT CERTIFICATION AND DISCLOSURE STATEMENT**

The undersigned acknowledges the requirements of the Florida Trench Safety Act (Section 553.60 et. seq. Florida Statutes).

A. The Bidder further acknowledges that the Florida Trench Safety Act, (the Act) establishes the Federal excavation safety standards set forth at 29 C.F.R. Section 1926.650 Subpart P, as the interim state standard until such time as the State of Florida, through its Department of Labor and Employment Security, or any successor agency, adopts, updates or revises said interim standard. This State of Florida standard may be supplemented by special shoring requirements established by the State of Florida or any of its political subdivisions.

B. The Bidder, as Contractor, shall comply with all applicable excavation/trench safety standards.

C. The Contractor shall consider the geotechnical data available from the County, if any, the Contractor's own sources, and all other relevant information in its design of the trench safety system to be employed on the subject Project. The Contractor acknowledges sole responsibilities for the selection of the data on which it relies in designing the safety system, as well as for the system itself.

D. The amounts that the Bidder has set forth for pipe installation includes the following excavation/trench safety measures and the linear feet of trench excavated under each safety measure. These units, costs, and unit values shall be disclosed solely for the purpose of compliance with procedural requirements of the Act. No adjustment to the Contract time or price shall be made for any difference in the actual number of linear feet of trench excavation, except as may be otherwise provided in these Contract Documents.

Trench Safety Measure (Description)	Units of Measure (LF, SF)	Unit (Quantity)	Unit Cost	Extended Cost
A.				
B.				
C.				
D.				
E.				
F.				

For Information Only, Not for Payment Purposes \$\_\_\_\_\_

Bidder may use additional sheets as necessary to extend this form.

**TABULATION OF ESTIMATED QUANTITIES**  
**South Lake Trail Phase IIIA**  
**Project No. 2013-03, Bid No. 13-0027**

Failure to complete the above may result in the bid being declared non-responsive.

E. The amount disclosed as the cost of compliance with the applicable trench safety requirements does not constitute the extent of the Contractor's obligation to comply with said standards. The Contractor shall extend additional sums at no additional cost to the County, if necessary, to comply with the Act (except as may otherwise be provided).

F. Acceptance of the bid to which this certification and disclosure applies in no way represents that the County or its representative has evaluated and thereby determined that the above costs are adequate to comply with the applicable trench safety requirements nor does it in any way relieve the Contractor of its sole responsibility to comply with the applicable trench safety requirements.

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Company

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Name and Title

Address:

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Telephone: (     ) \_\_\_\_\_

# CONSTRUCTION PLANS AND SPECIFICATIONS

FOR

# LAKE COUNTY DEPARTMENT OF PUBLIC WORKS ENGINEERING DIVISION

## SOUTH LAKE TRAIL PHASE III-A

PROJECT NO. 2013-03  
LAKE COUNTY, FLORIDA



GOVERNING STANDARDS AND SPECIFICATIONS:  
FLORIDA DEPARTMENT OF TRANSPORTATION  
DESIGN STANDARDS DATED 2012/2013 AND  
STANDARD SPECIFICATIONS FOR ROAD AND  
BRIDGE CONSTRUCTION DATED 2013 AS  
AMENDED BY CONTRACT DOCUMENTS.



VICINITY MAP  
NOT TO SCALE

100% BID PLANS  
APRIL 3, 2013

### INDEX OF SHEETS

SHEET NO.	SHEET DESCRIPTION
C-01	COVER SHEET
C-02	SUMMARY OF PAY ITEMS
C-03	TRAIL PLAN
C-04	DETAILS
C-05	CROSS SECTIONS
C-06	GENERAL NOTES
C-07	STORMWATER POLLUTION PREVENTION PLAN
C-08	EXISTING CONDITIONS PLAN
C-09	STANDARD INTERSECTION DETAIL
C-10	PROFILES



CITY OF CLERMONT—INLAND GROVES ROUNDABOUT  
PROJECT NO.: 60284317

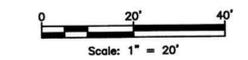
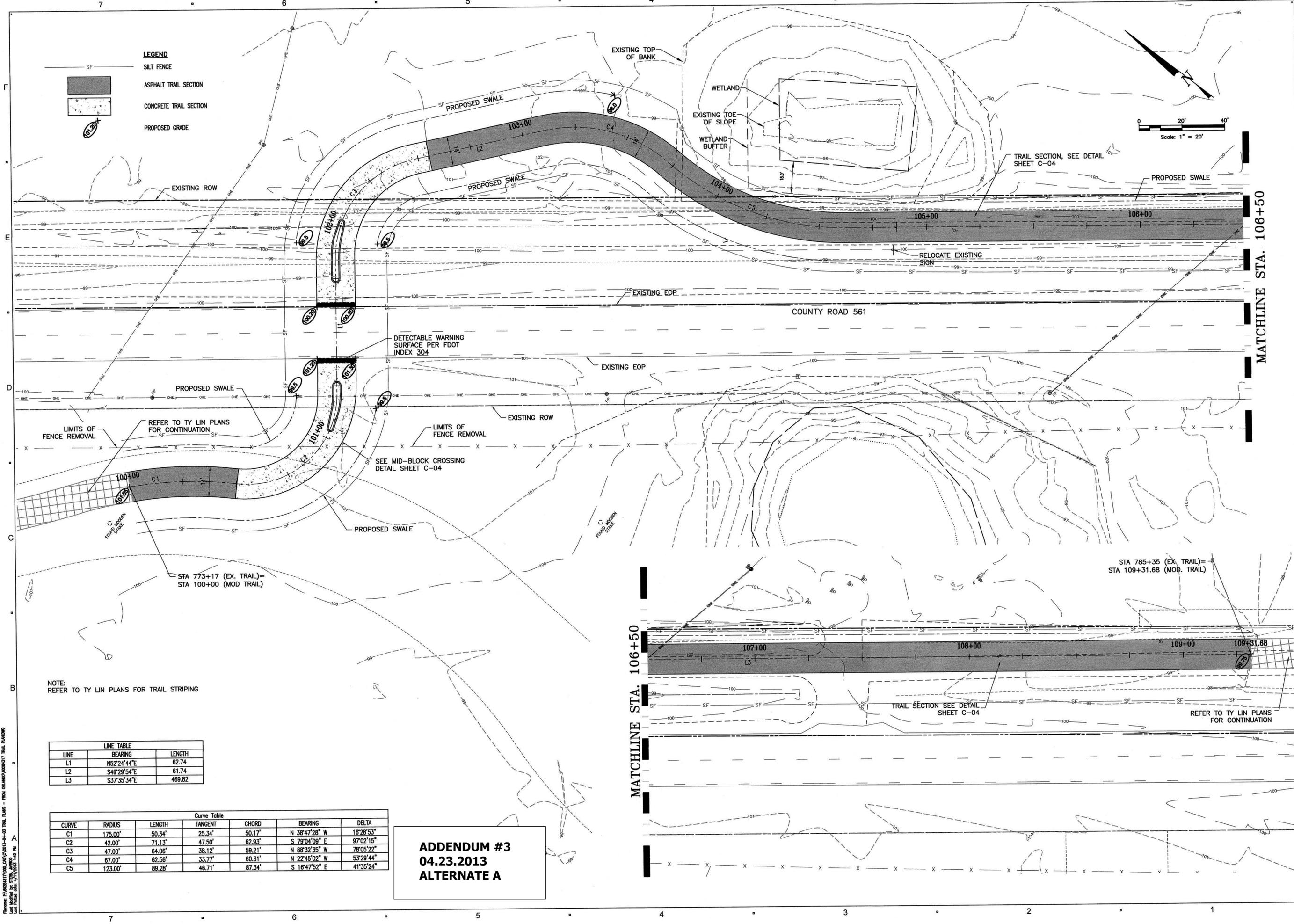
ROADWAY SHOP DRAWINGS TO BE SUBMITTED TO:  
LEO D. GIANGRANDE, P.E.  
AECOM TECHNICAL SERVICES, INC.  
3550 S.W. CORPORATE PARKWAY  
PALM CITY, FL 34990  
(772) 286-3883 FAX: (772) 286-3925

AECOM Technical Services, Inc.  
3550 S.W. Corporate Parkway  
Palm City, Florida 34990  
T 772.286.3883 F 772.286.3925  
Certificate Of Authorization 8115 & LB7860  
www.aecom.com

**ADDENDUM #3**  
**04.23.2013**  
**ALTERNATE A**

VERIFY SCALES BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	DESIGNED BY LDG	PROJECT ENGINEER LEO D. GIANGRANDE, P.E.	REV	DATE	DESCRIPTION	APPR
	DRAWN BY DLP	REG NUMBER 66387				
	CHECKED BY LDG	PROJECT NUMBER 60284317				
	DATE 4/3/2013	CADD STANDARDS				

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**LEGEND**

- SF SILT FENCE
- ASPHALT TRAIL SECTION
- CONCRETE TRAIL SECTION
- PROPOSED GRADE

**LINE TABLE**

LINE	BEARING	LENGTH
L1	N52°24'44"E	62.74
L2	S49°29'54"E	61.74
L3	S37°35'34"E	469.82

**Curve Table**

CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C1	175.00'	50.34'	25.34'	50.17'	N 38°47'28" W	16°28'53"
C2	42.00'	71.13'	47.50'	62.93'	S 79°04'09" E	97°02'15"
C3	47.00'	64.06'	38.12'	59.21'	N 88°32'35" W	78°05'22"
C4	67.00'	62.56'	33.77'	60.31'	N 22°45'02" W	53°29'44"
C5	123.00'	89.28'	46.71'	87.34'	S 16°47'52" E	41°35'24"

**ADDENDUM #3**  
**04.23.2013**  
**ALTERNATE A**

**REGISTRATION**



**ISSUE**

MARK	DATE	DESCRIPTION
	02.01.2013	30% CONST DOCS
	02.15.2013	90% CONST DOCS
	03.28.2013	95% CONST DOCS
	04.10.2013	BID

**KEY PLAN**

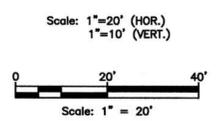
PROJECT NUMBER  
60294317

SHEET TITLE  
**TRAIL PLAN**

SHEET NUMBER  
**C-03**

2013 AECOM TECHNICAL SERVICES, INC.





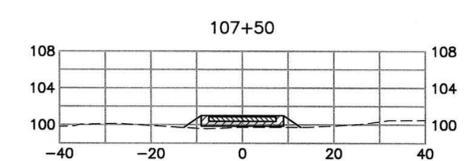
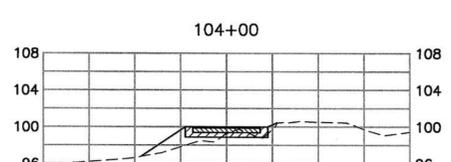
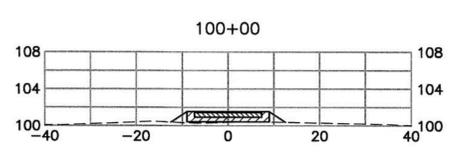
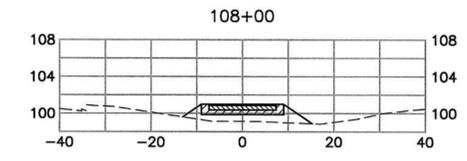
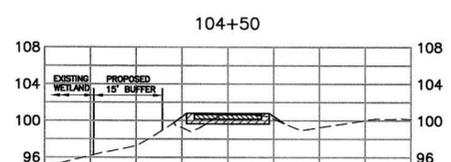
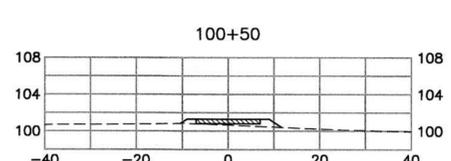
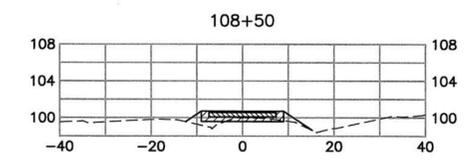
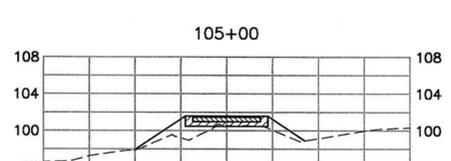
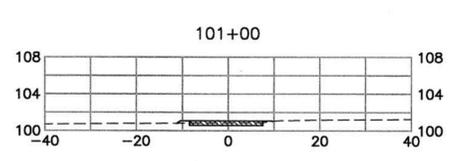
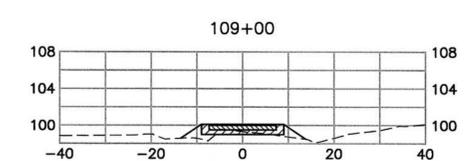
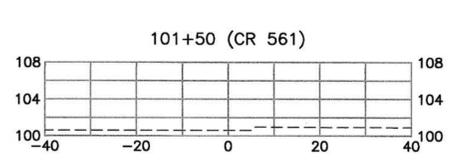
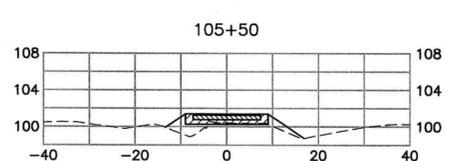
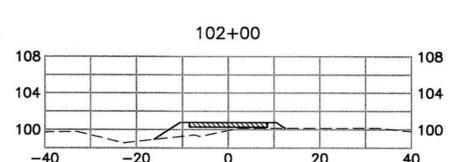
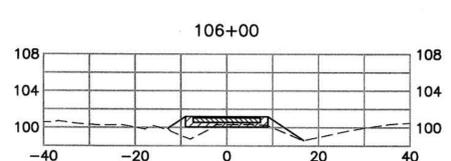
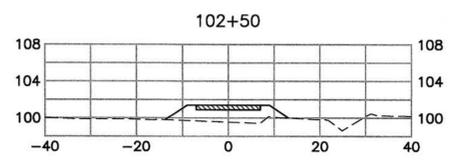
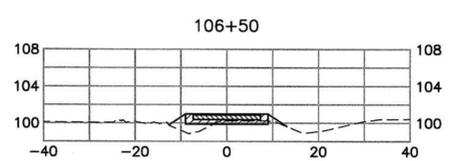
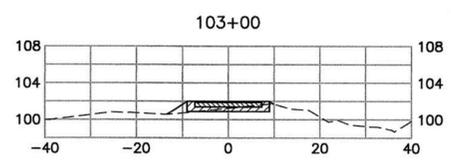
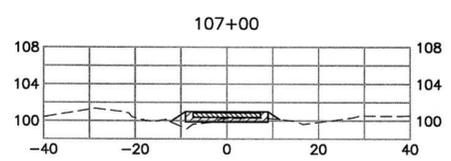
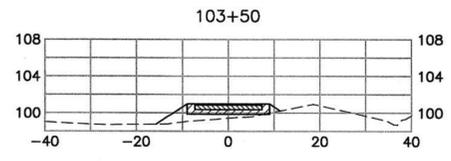
**AECOM**

PROJECT  
**SOUTH LAKE TRAIL  
PHASE III-A**

CLIENT  
**LAKE COUNTY**  
DEPARTMENT OF PUBLIC WORKS  
ENGINEERING DIVISION  
TEL 352-483-9040

LANDSCAPE ARCHITECT  
**AECOM**  
AECOM TECHNICAL SERVICES, INC.  
150 North Orange Avenue, Suite 200  
Orlando, FL 32801  
407 843 6552 tel  
www.aecom.com

CONSULTANTS  
**SURVEYING AND MAPPING**  
BESH  
350 N. Sinclair Avenue  
Tavares, FL 32778



MARK	DATE	DESCRIPTION
	02.01.2013	30% CONST DOCS
	02.15.2013	60% CONST DOCS
	03.28.2013	95% CONST DOCS
	04.10.2013	BID

KEY PLAN

PROJECT NUMBER  
8026437

SHEET TITLE  
CROSS SECTIONS

SHEET NUMBER  
C-05

DRAWING: PLANS AND CROSS SECTIONS FOR SOUTH LAKE TRAIL PHASE III-A, CR 561, FROM ORLANDO/BOCA RATON CROSS SECTIONING  
 DATE: 04/23/2013 1:48 PM  
 USER: JEFFREY.L. SMITH  
 PLOT: 04/23/2013 1:48 PM

**ADDENDUM #3  
04.23.2013  
ALTERNATE A**











# CONSTRUCTION PLANS AND SPECIFICATIONS

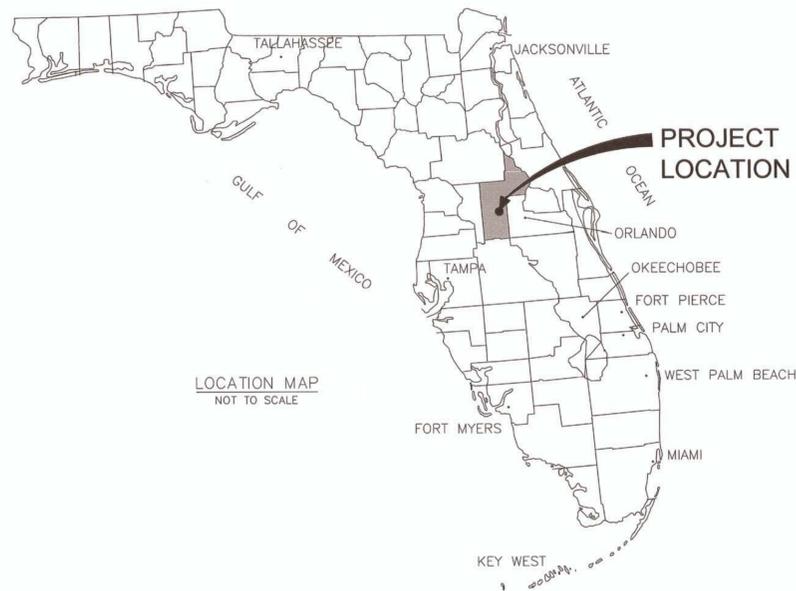
## FOR

# CITY OF CLERMONT

# INLAND GROVES ROUNDABOUT

### SECTION 14, TOWNSHIP 22 S, RANGE 25E

### LAKE COUNTY, FLORIDA



GOVERNING STANDARDS AND SPECIFICATIONS:  
FLORIDA DEPARTMENT OF TRANSPORTATION  
DESIGN STANDARDS DATED 2012/2013 AND  
STANDARD SPECIFICATIONS FOR ROAD AND  
BRIDGE CONSTRUCTION DATED 2013 AS  
AMENDED BY CONTRACT DOCUMENTS.



VICINITY MAP  
NOT TO SCALE

100% BID PLANS  
APRIL 16, 2013

#### INDEX OF SHEETS

SHEET NO.	SHEET DESCRIPTION
C-01	COVER SHEET
<del>C-02</del>	<del>SUMMARY OF PAY ITEMS</del>
C-03	GEOMETRY PLAN
C-04	GRADING PLAN
C-05	SIGNAGE & STRIPING PLAN
C-06	DETAILS
C-07	DETAILS
C-08	CROSS SECTIONS
C-09	GENERAL NOTES
C-10	STORMWATER POLLUTION PREVENTION PLAN
C-11	EXISTING CONDITIONS PLAN
LS-01	LANDSCAPE PLAN
EL-01	SYMBOLS, NOTES, DETAILS & DIAGRAMS
EL-02	ELECTRICAL PLAN



CITY OF CLERMONT-INLAND GROVES ROUNDABOUT  
PROJECT NO.: 60284317

ROADWAY SHOP DRAWINGS TO BE SUBMITTED TO:  
LEO D. GIANGRANDE, P.E.  
AECOM TECHNICAL SERVICES, INC.  
3550 S.W. CORPORATE PARKWAY  
PALM CITY, FL 34990  
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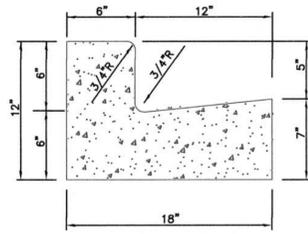
**ADDENDUM #3**  
**04.23.2013**  
**ALTERNATE B**

<b>VERIFY SCALES</b> BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	DESIGNED BY LDG	PROJECT ENGINEER LEO D. GIANGRANDE, P.E.	△		
	DRAWN BY DLP	REG NUMBER 66387	△		
	CHECKED BY LDG	PROJECT NUMBER 60284317	△		
	DATE 3/20/2013	CADD STANDARDS	△		
			REV	DATE	DESCRIPTION
					APPR

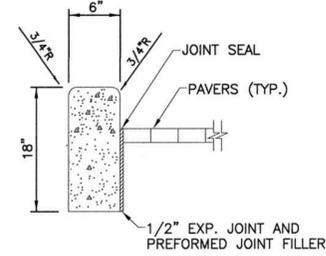




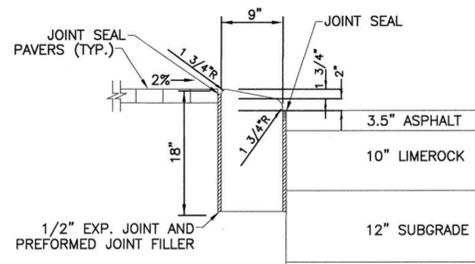




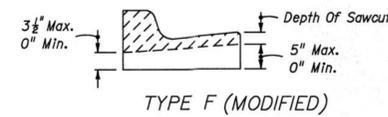
**MODIFIED TYPE F CURB & GUTTER**  
F.D.O.T. INDEX 300 NTS



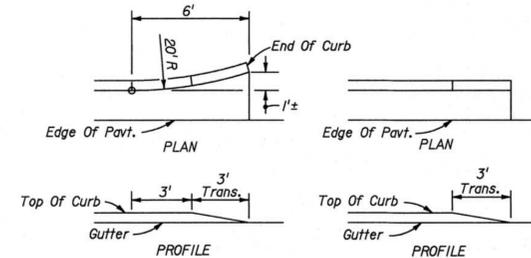
**MODIFIED TYPE D CURB**  
F.D.O.T. INDEX 300 NTS



**MODIFIED TYPE B CURB**  
(2" EXPOSURE) NTS  
F.D.O.T. INDEX 300



**TYPE F (MODIFIED)**  
Sawcuts should be avoided within valley gutter and within curb and gutter endings.  
**CONTRACTION JOINT IN CURB AND GUTTER**

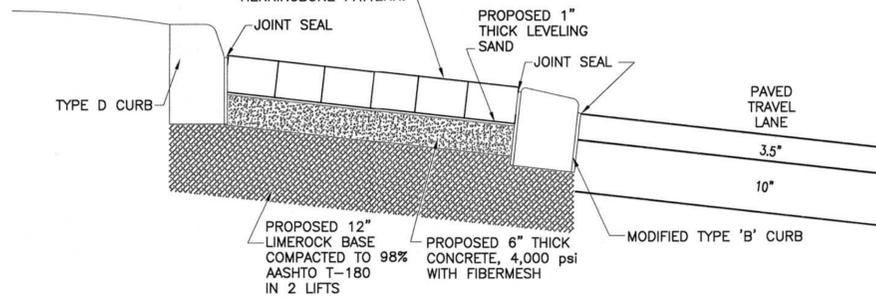


**CURB AND GUTTER TYPE (MODIFIED)**  
CURB AND GUTTER ENDINGS

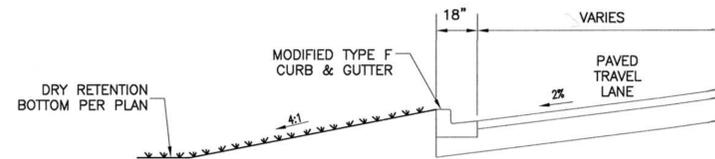
**GENERAL NOTES**

- For curb, gutter and curb & gutter provide 1/8" - 1/4" contraction joints at 10' centers (max.). Contraction joints adjacent to concrete pavement on tangents and flat curves are to match the pavement joints, with intermediate joints not to exceed 10' centers. Curb, gutter and curb & gutter expansion joints shall be located in accordance with Section 520 of the standard specifications.
- Ends of Curbs Types B and D shall transition from full to zero heights in 3'.

WHITACRE GREER CLAY PAVERS, SQUARE SIDE UP  
SIZE: 2-3/4"x4"x8"  
COLOR #'S: 32 ANTIQUE AND 33 DARK ANTIQUE  
EQUAL QUANTITIES, RANDOM MIX.  
HERRINGBONE PATTERN.

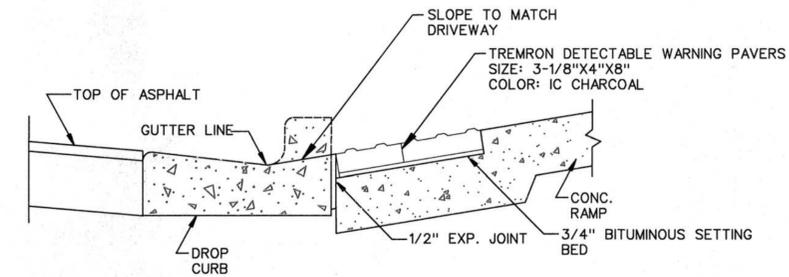


**ROUNDABOUT TRUCK APRON SECTION**  
NTS

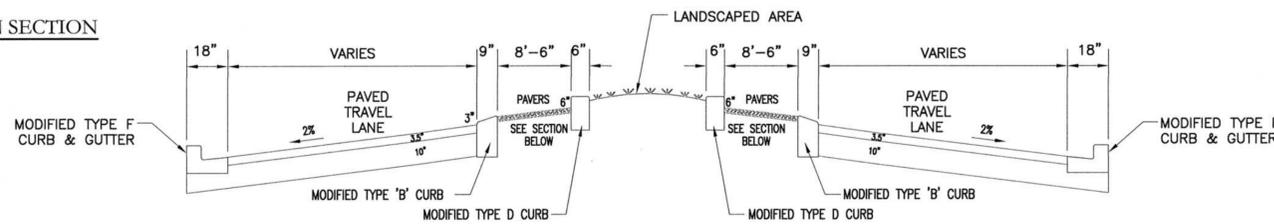


**RETENTION SECTION A-A**  
NTS

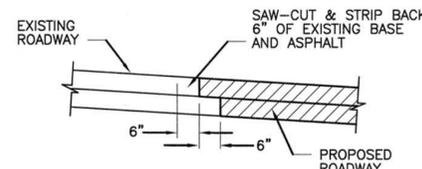
**CURB & GUTTER DETAILS**  
NTS



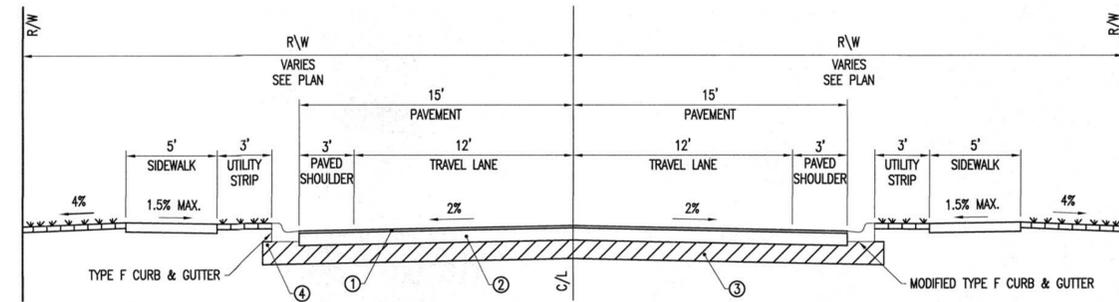
**PEDESTRIAN CURB RAMP DETAIL**  
NTS



**SECTION THRU ROUNDABOUT**  
NTS



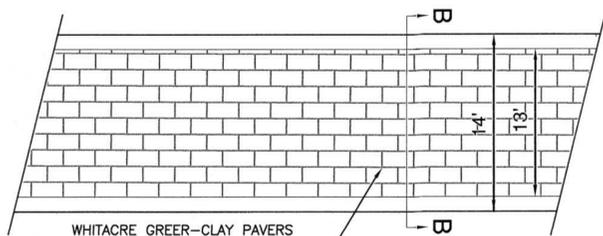
**ASPHALT TIE-IN DETAILS**  
NTS



**TYPICAL COLLECTOR ROAD DETAIL**  
FOR PAVEMENT CROSS-SECTION PURPOSES ONLY  
NTS

KEY	THICKNESS	SPECIFICATIONS
1	3.5"	2.5" MIN. SP 12.5 STRUCTURAL ASPHALT IN 2 LIFTS, 1" MIN. FC 9.5 FRICTION ASPHALT COURSE.
2	10"	LIMEROCK IN 2 LIFTS - 98% COMPACTION EACH LIFT, A.A.S.H.T.O. T-180, PRIMED & SANDED.
3	12"	12" MIN. TYPE B STABILIZED SUBGRADE MIN. LBR 40, 98% COMPACTION, A.A.S.H.T.O. T-180.
4	6"	TYPE B STABILIZED SHOULDER LBR 40, 98% COMPACTION, A.A.S.H.T.O. T-180.

- NOTE:**
- ALL STRIPING TO BE LEAD & SOLVENT FREE THERMOPLASTIC UNLESS OTHERWISE NOTED.
  - SOD ALL DISTURBED AREAS.



WHITACRE GREER-CLAY PAVERS  
COLOR #'S 32 ANTIQUE AND 33  
DARK ANTIQUE. EQUAL QUANTITIES,  
RANDOM MIX. RUNNING BOND PATTERN,  
PERPENDICULAR TO TRAFFIC FLOW.

**ROADWAY PAVERBRICK CROSS-SECTION**  
NTS

**ADDENDUM #3**  
**04.23.2013**  
**ALTERNATE B**



MARK	DATE	DESCRIPTION
	17.01.2013	PROGRESS SET
	02.01.2013	30% CONST DOCS
	02.15.2013	90% CONST DOCS
	04.03.2013	100% BID DOCS



Scale: 1"=20' (HOR.)  
1"=10' (VERT.)

Scale: 1" = 20'



PROJECT  
**INLAND GROVES  
ROUNDBOUT**

CLIENT  
**CITY OF CLERMONT**  
685 W. MONTROSE STREET  
CLERMONT, FL 34711  
TEL 352-394-4081

LANDSCAPE ARCHITECT / ENGINEER  
**AECOM**  
AECOM TECHNICAL SERVICES, INC.  
150 North Orange Avenue, Suite 200  
Orlando, FL 32801  
407 843 6552 tel  
www.aecom.com

CONSULTANTS  
**ROUNDBOUT DESIGNER**  
ALTERNATE STREET DESIGN, P.A.  
1516 Plainfield Avenue  
Orange Park, FL 32073

**ELECTRICAL ENGINEER**  
CLEAR ENGINEERING  
13651 Crystal River Drive  
Orlando, FL 32828

**SURVEYING AND MAPPING**  
BESH  
350 N. Sinclair Avenue  
Tavares, FL 32778

REGISTRATION



ISSUE

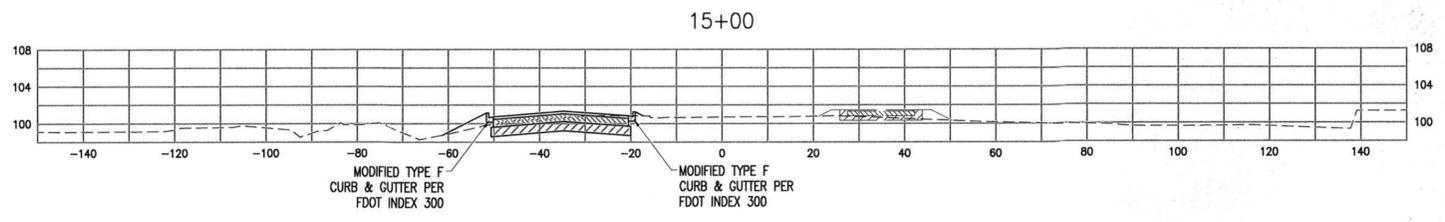
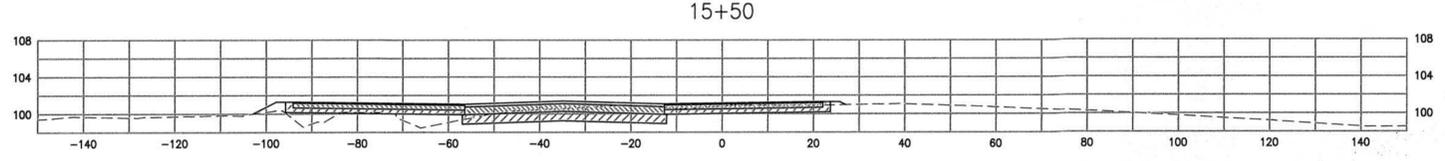
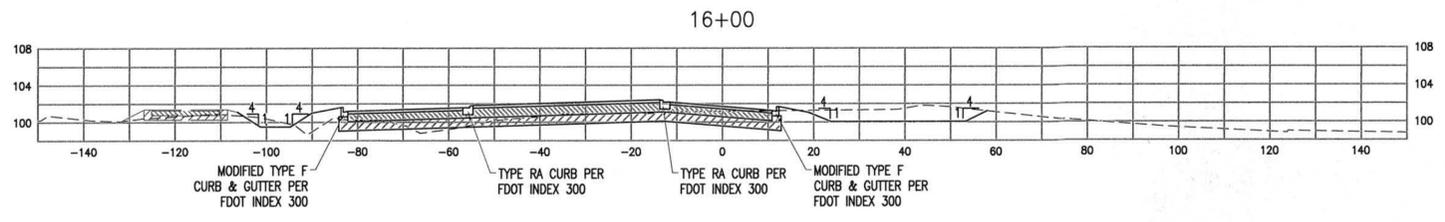
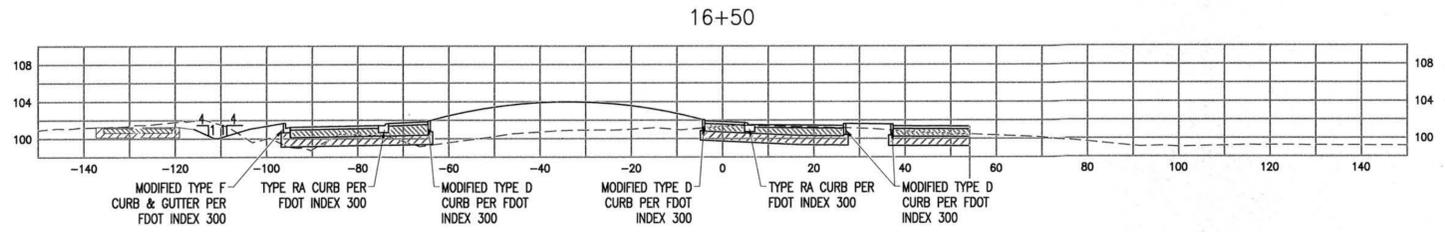
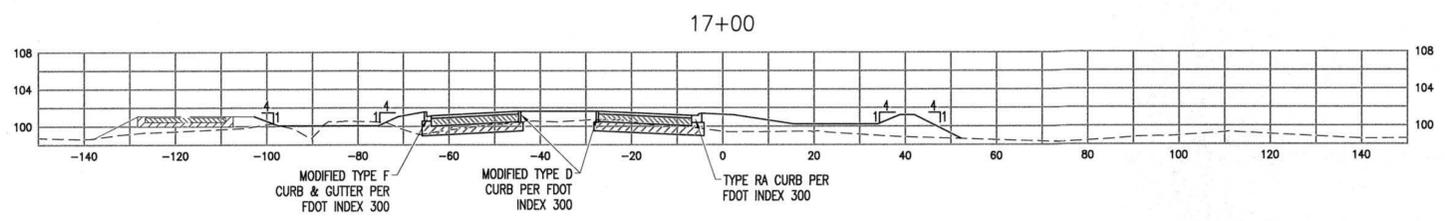
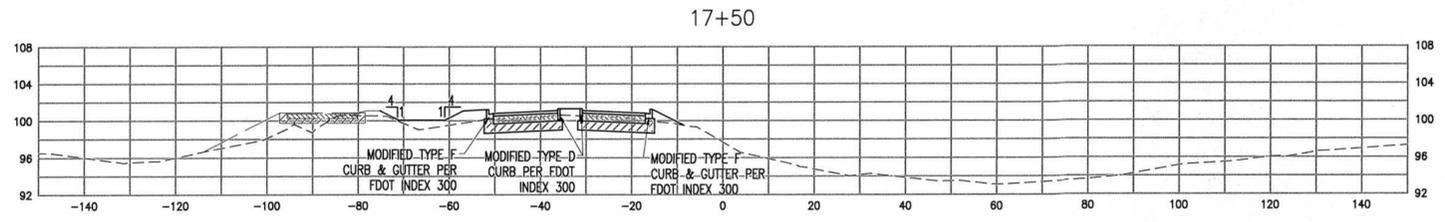
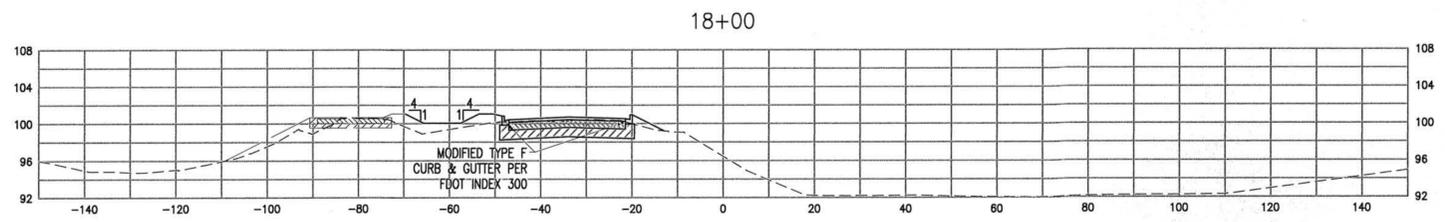
MARK	DATE	DESCRIPTION
	17.01.2013	PROGRESS SET
	02.01.2013	30% CONST DOCS
	02.15.2013	90% CONST DOCS
	04.03.2013	100% BID DOCS

KEY PLAN

PROJECT NUMBER  
60294317

SHEET TITLE  
**CROSS SECTIONS**

SHEET NUMBER  
**C-08**



**ADDENDUM #3  
04.23.2013  
ALTERNATE B**

File: C:\Users\jg\Documents\2013\04\23\13\ADDENDUM #3\ALTERNATE B\CROSS SECTIONS.dwg  
 User: jg  
 Date: 4/23/2013 1:57 PM







# TREE TRANSPLANTING NOTES

WITHOUT RESTRICTING THE GENERALITY OF THE WORK WHICH SHALL BE PERFORMED PURSUANT TO THE CONTRACT, IT IS CLEARLY UNDERSTOOD AND AGREED THAT THE INTENT OF THE CONTRACT IS THAT THE CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIAL, TRUCKING, EQUIPMENT, HOISTING, SCAFFOLDING, SUPPORTS, POWER, SERVICES, SUPERVISION, COORDINATION, TESTING, STORAGE, TOOLS, APPLIANCES, ENGINEERING, LAYOUT, AFFURTENANCES, TAXES, PERMITS, FEES, INSURANCES, AND ALL OTHER OPERATIONS OF EVERY KIND AND NATURE WHATSOEVER REQUIRED FOR THE COMPLETE PERFORMANCE OF THE CONTRACT SCOPE OF WORK WHICH SHALL INCLUDE, BUT NOT BE LIMITED TO THE FOLLOWING:

## A. PROJECT SUMMARY

1. THE PROJECT CONSISTS OF TREE RELOCATION AND RELATED SCOPE OF WORK FOR INLAND GROVES ROUNDABOUT. THE WORK GENERALLY INCLUDES TREE PREPARATION, PRUNING, TRIMMING, DEMOSSING, RELOCATION, AND MAINTENANCE.

## B. GENERAL

1. THE CONTRACTOR WILL BE WORKING ADJACENT TO ROADWAYS THAT ARE PRESENTLY OPEN TO THE PUBLIC AND MUST EXERCISE CARE IN PERFORMING WORK WITHIN SAID AREAS SO THAT ACCESS FOR THE PUBLIC IS NOT INTERRUPTED. ADVANCE NOTICE SHALL BE PROVIDED TO THE OWNER'S REPRESENTATIVE PRIOR TO THE INSTALLATION OF ANY LANE CLOSURES, TRANSITIONS, OR CROSSOVERS.
2. THE CONTRACTOR IS ADVISED THAT THE LIMITS OF THIS TREE RELOCATION ARE CONTAINED WITHIN AN AREA IDENTIFIED AS THE INLAND GROVES PROPERTY PARK ADJACENT TO THE ROUNDABOUT AND WILL INCLUDE RELOCATION FROM THIS AREA WITHIN A MILE RADIUS OF THE SITE.

## C. COORDINATION

1. THE CONTRACTOR SHALL COORDINATE ITS WORK WITH ALL CURRENT AND FUTURE CONTRACTORS UNDER CONTRACT WITH THE OWNER.
2. THE CONTRACTOR SHALL COORDINATE ITS WORK WITH OWNER'S REPRESENTATIVE'S CONSTRUCTION MANAGEMENT TEAM, INCLUDING THE ENGINEER OF RECORD, LANDSCAPE ARCHITECT, AND ARBORIST.
3. THE CONTRACTOR SHALL COORDINATE ITS WORK WITH ALL INVOLVED DEPARTMENTS OF THE CITY OF CLERMONT INCLUDING, BUT NOT LIMITED TO, THE ENGINEERING DEPARTMENT AND THE UTILITY DIVISION.
4. IT IS INCUMBENT UPON THE CONTRACTOR TO COORDINATE AND COOPERATE WITH ALL OTHER CONTRACTORS IN ORDER THAT ALL WORK IS INSTALLED IN A TIMELY AND EXPEDITIOUS MANNER.
5. ALL NECESSARY FLAGMEN, BARRICADES, WARNING FLASHERS, ETC., FOR SAFE AND PROPER TRAFFIC CONTROL WHEN PUBLIC ROADWAYS ARE USED, THE CONTRACTOR WILL COORDINATE HIS OPERATIONS WITH ALL JURISDICTIONAL AUTHORITIES. THE CONTRACTOR IS ADVISED THAT IT IS RESPONSIBLE FOR ALL CONSTRUCTION PERSONNEL AND TRAFFIC ROUTING LOGISTICS REQUIRED IN THE PERFORMANCE OF ITS WORK. COST OF THESE SERVICES AND MATERIALS IS INCLUDED IN THIS CONTRACT.

## D. TREE PREPARATION

3. THE CONTRACTOR SHALL PREPARE EACH AND EVERY TREE DESIGNATED TO BE RELOCATED. THE CONTRACTOR'S MEANS AND METHODS FOR THIS PREPARATION SHALL BE OUTLINED AND DEFINED IN THE PROPOSAL AND BECOME BINDING AS PART OF THE CONTRACT DOCUMENTS. THIS SCOPE DEFINITION SHALL INCLUDE ALL PRE-DIGGING, ROOT PRUNING, BURLAPING, WIRE BASKETING, BOXING OR CRATING OF THE TREES' ROOT BALL. DRILLING OF THE TREE TRUNK OR STEEL ROD SUPPORTS SHALL NOT BE ALLOWED.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE EXCAVATION OF ALL PLANTING PITS AREAS DESIGNATED TO RECEIVE THE RELOCATED TREES. ALL LOCATIONS SHOWN ON THE CONTRACT DRAWINGS ARE GRAPHICAL REPRESENTATIONS OF THE APPROXIMATE PLACING ON THE RELOCATED TREES. ALL LOCATIONS SHALL BE FIELD VERIFIED BY THE LANDSCAPE ARCHITECT OR THE OWNER'S REPRESENTATIVE.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL IRRIGATION AND WATERING REQUIRED FOR THE PREPARATION OF THE TREES TO BE RELOCATED. THE CONTRACTOR'S MEANS AND METHODS FOR THESE ACTIVITIES SHALL BE OUTLINED AND

DEFINED IN THE PROPOSAL AND BECOME BINDING AS PART OF THE CONTRACT DOCUMENTS.

6. ANY ADDITIONAL TREE PREPARATION AS DEEMED REQUIRED BY THE CONTRACTOR TO GUARANTEE THE SURVIVABILITY OF THE TREES SHALL BE OUTLINED AND DEFINED IN THE CONTRACTOR'S PROPOSAL AND BECOME BINDING AS PART OF THE CONTRACT DOCUMENTS. ALL COSTS ASSOCIATED WITH THIS WORK SHALL BE INCLUDED IN THE CONTRACTOR'S PROPOSAL.

## E. TREE RELOCATION

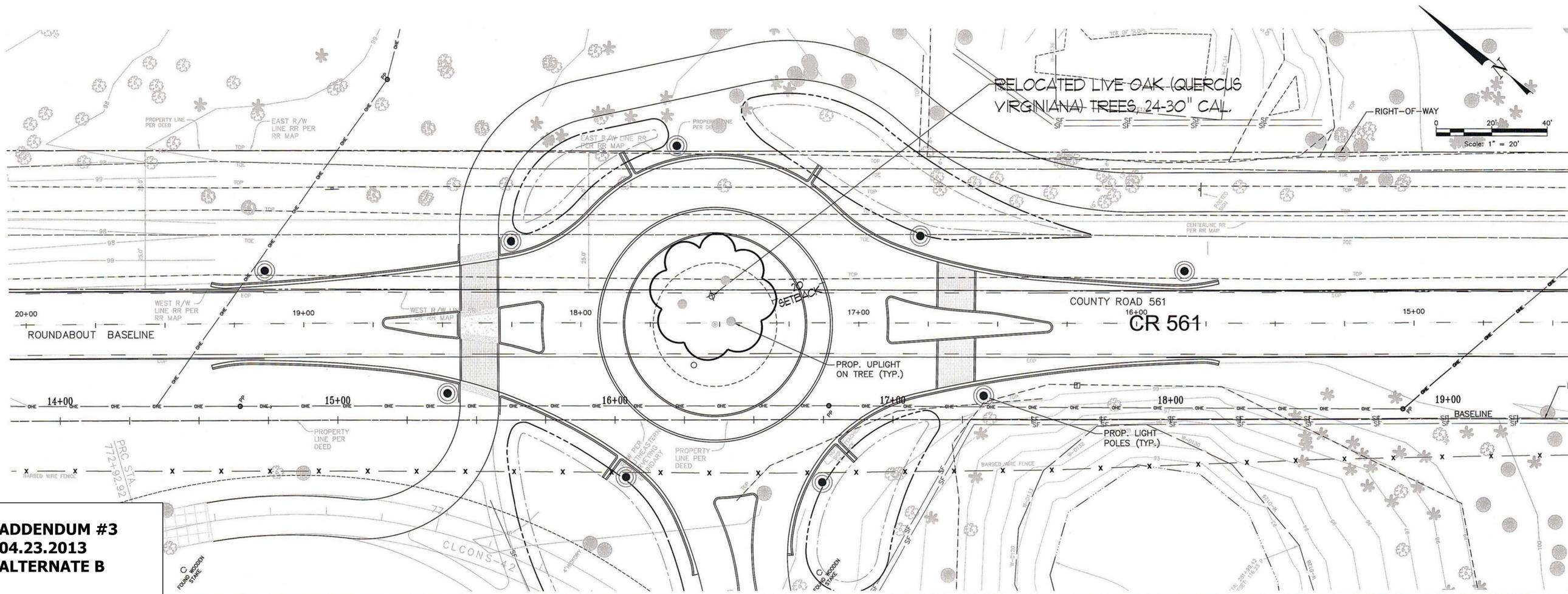
1. THE OWNER WILL INSPECT AND RESERVES THE RIGHT TO REFUSE ANY TREE SO DAMAGED DURING REMOVAL AND/OR RELOCATION AS TO BE JUDGED UNACCEPTABLE. IF SUCH DETERMINATION IS MADE, THE CONTRACTOR SHALL RELOCATE A SIMILAR TREE OF THE OWNER'S CHOOSING AS A REPLACEMENT IN SUCH AN EVENT, AS DIRECTED BY THE OWNER, AT NO ADDITIONAL COST TO THE OWNER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL AND TRANSPORTATION OF THE DAMAGED TREE TO THE OWNER DESIGNATED ON-SITE DISPOSAL AREA.
2. THE CONTRACTOR SHALL PROVIDE THE OWNER AS PART OF THE PROPOSAL A RELOCATION SCHEDULE DETAILING PREPARATION ACTIVITIES AND RELOCATION START AND COMPLETION DATES FOR EACH TREE. THE OWNER SHALL REVIEW AND HAVE THE RIGHT TO ADJUST SEQUENCING IN ORDER TO COORDINATE THIS WORK WITH THAT BEING PERFORMED BY OTHERS. THIS SCHEDULE SHALL BECOME BINDING AS PART OF THE CONTRACT DOCUMENTS.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL LIFTING AND TRANSPORTING AS REQUIRED FOR THE SUCCESSFUL RELOCATION OF THE TREES. THE CONTRACTOR SHALL PREPARE AND SUBMIT TO THE OWNER A ROUTING PLAN DETAILING THE PROPOSED TRANSPORT ROUTES FOR THE RELOCATED TREES. THE OWNER SHALL REVIEW AND HAVE THE RIGHT TO ADJUST THE CONTRACTOR'S PROPOSED ROUTING IN ORDER TO COORDINATE THIS WORK WITH THAT BEING PERFORMED BY OTHERS.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TEMPORARY SUPPORTS, BRACING, GUYING, AND TIE-DOWNS REQUIRED FOR TREE STABILIZATION AND POSITIONING AS SPECIFIED BY THE LATEST INDUSTRY STANDARDS OR AS SPECIFIED.

## F. MAINTENANCE

1. THE CONTRACTOR SHALL INCLUDE ALL COSTS ASSOCIATED WITH THE MAINTENANCE OF THE TREES RELOCATED BY THIS SCOPE OF WORK FOR SUCH A PERIOD OF TIME EQUAL AND SIMULTANEOUS TO THAT OF THE GUARANTEE PERIOD. MAINTENANCE SHALL INCLUDE BUT NOT BE LIMITED TO WATERING, FERTILIZING, ADDITIONAL TRIMMING AND PRUNING, GUYING AND BRACING ADJUSTMENTS, AND ANY OTHER PRUDENT MAINTENANCE MEASURE DEEMED NECESSARY BY THE CONTRACTOR TO ENSURE THE SURVIVABILITY OF THE TREES. THE CONTRACTOR SHALL OUTLINE AND DEFINE SUCH MEASURES IN THE CONTRACTOR'S PROPOSAL, WHICH SHALL BECOME BINDING AS PART OF THE CONTRACT DOCUMENTS.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL IRRIGATION AND WATERING REQUIRED FOR ONE (1) YEAR. THE CONTRACTOR'S MEANS AND METHODS FOR THESE ACTIVITIES SHALL BE OUTLINED AND DEFINED IN THE PROPOSAL AND BECOME BINDING AS PART OF THE CONTRACT DOCUMENTS.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DAILY INSPECTION AND OBSERVATION OF THE RELOCATED TREES. ANY ISSUES OR CONCERNS REGARDING OPERATION BY OTHER CONTRACTORS WORKING ON-SITE THAT MAY AFFECT THE SURVIVABILITY OF ANY OF THE RELOCATED TREES SHALL BE BROUGHT IMMEDIATELY TO THE OWNER'S ATTENTION IN WRITING.

## G. GUARANTEE

1. THE CONTRACTOR SHALL GUARANTEE THE SURVIVABILITY OF EACH RELOCATED TREE FOR A PERIOD OF ONE YEAR FROM THE DATE THAT THE LAST TREE IS RELOCATED, AGAINST ANY TYPE OF TREE LIFE LOSS CAUSED BY THE CONTRACTOR DURING TREE REMOVAL, TRANSPORTING AND/OR TRANSPLANTING. THE CONTRACTOR SHALL SUBMIT TO THE OWNER IN WRITING ON THAT DAY CONFIRMING THE COMMENCEMENT OF THE GUARANTEE PERIOD.
2. THE OWNER, THE OWNER'S LANDSCAPE ARCHITECT AND OWNER'S ARBORIST SHALL SOLELY DETERMINE TREE LOSS OF LIFE. IF SUCH DETERMINATION IS MADE, THE CONTRACTOR SHALL RELOCATE A SIMILAR TREE AS A REPLACEMENT IN SUCH AN EVENT, AS DIRECTED BY THE OWNER, AT NO ADDITIONAL COST TO THE OWNER.



**ADDENDUM #3**  
**04.23.2013**  
**ALTERNATE B**



PROJECT  
**INLAND GROVES ROUNDABOUT**

CLIENT  
**CITY OF CLERMONT**  
 685 W. MONTROSE STREET  
 CLERMONT, FL 34711  
 TEL 352-394-4081

LANDSCAPE ARCHITECT  
**AECOM**  
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 13651 Crystal River Drive  
 Orlando, FL 32828

**SURVEYING AND MAPPING**  
 BESH  
 350 N. Sinclair Avenue  
 Tavares, FL 32778

### REGISTRATION

*(Handwritten signature)*  
 10/2/13

MARK	DATE	DESCRIPTION
	02.01.2013	30% CONST DOCS
	02.15.2013	90% CONST DOCS
	03.28.2013	95% CONST DOCS
	04.16.2013	BID DOCUMENTS

### KEY PLAN

PROJECT NUMBER  
 60284317

SHEET TITLE

LANDSCAPE PLAN

SHEET NUMBER

LS-01

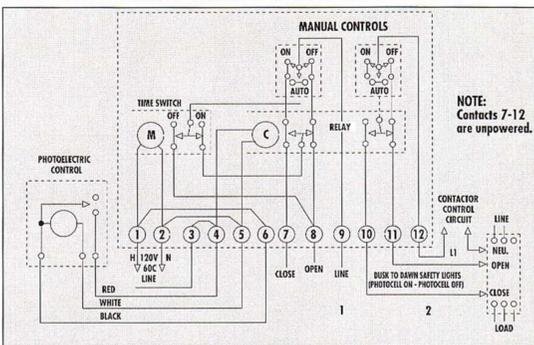
2013 AECOM TECHNICAL SERVICES, INC.

### SITE LIGHTING FIXTURE SCHEDULE

TYPE	DESCRIPTION	TOTAL WATTS	LAMPS		MOUNTING
			NO.	WATTS	
SLA	SITE LIGHTING FIXTURE AND POLE. DECORATIVE ALUMINUM FIXTURE HOUSING. LED LAMPS AND DRIVER. FULL CUTOFF, TYPE III DISTRIBUTION. MOUNTED ON 16' ROUND, TAPERED, STEEL/WOOD POLE. MULTI-TAP BALLAST. BLACK FINISH ON FIXTURE AND POLE. FIXTURE: SELUX SACL-1-LG3700-R3-35-20-BK-240 POLE: STUCTURA BOL T 16' 55 40 S2 BLK T3124 STD OWNER/LANDSCAPE ARCHITECT APPROVED EQUAL	67	-	-	LED POLE
SLB	LED LANDSCAPE TREE UPLIGHT FIXTURE. DIE CAST ALUMINUM HOUSING. BLACK FINISH. LED LIGHT SOURCE. MULTI TAP DRIVER. MEDIUM FLOOD OPTICS, WET LOCATION LISTED, KNUCKLE MOUNT. HYDREL 4640 18LED WHT41K MVOLT MFL KM ARJB EA12 GS LP BL OWNER/ENGINEER APPROVED EQUAL	20	-	-	LED GROUND

NOTES: 1. ALL FIXTURE 240 VOLT UNLESS OTHERWISE NOTED.  
2. ALL FLUORESCENT TUBE LAMPS SHALL HAVE MINIMUM 80 CRI.  
3. ALL FLUORESCENT LAMPS SHALL HAVE CORRELATED COLOR TEMPERATURE OF 3500.  
4. FIXTURES WITH ELECTRONIC BALLAST SHALL HAVE 10% MAXIMUM HARMONIC DISTORTION.  
5. FINAL FIXTURE FINISHES SHALL BE SELECTED DURING SUBMITTAL PROCESS BY ARCHITECT/ENGINEER FROM EXTENDED STANDARD COLOR CHART FOR EACH FIXTURE.

PROVIDE EQUAL TO TORK T920L PHOTO TIME CONTROL FOR 4-DAY ELECTRO-MECHANICAL TIMECLOCK TO OPERATE MECHANICALLY HELD CONTACTORS. PHOTO TIME CONTROL SHALL BE PRE-WIRED TO A CENTRAL TERMINAL BLOCK WHICH PROVIDES CONNECTING TERMINALS FOR PHOTOCONTROL AND INDEPENDENT CONTACTOR CONTROL CIRCUITS. TIME SWITCH SHALL FUNCTION TO PREVENT ENERGIZING OF LIGHTING FOR PRESET PERIODS EACH DAY. CONTROL SHALL INCLUDE PRE-WIRED MANUAL SWITCHING FOR EACH CONTACTOR CIRCUIT SPECIFIED. ENCLOSURE SHALL BE NEMA 1 SURFACE. PHOTOCELL TO BE PROVIDED ON EXTERIOR OF ENCLOSURE. IT SHALL BE FULLY TEMPERATURE COMPENSATED AND SHALL PROVIDE FOR TIME DELAY OF AT LEAST 15 SECONDS TO PREVENT FALSE SWITCHING. PHOTOCELL SHALL OPERATE CONTROL CENTER TO ENERGIZE WHENEVER NATURAL LIGHTING FALLS BELOW 1.5-5.5 FC TURN ON. SPRING DRIVEN RESERVE TIMING MOTOR SHALL BE PROVIDED SUFFICIENT TO OPERATE TIME SWITCH CONTROLS AT LEAST 24 HOURS AFTER POWER FAILURE, ON RESTORATION OF POWER, TIME SWITCH SHALL TRANSFER TO SYNCHRONOUS MOTOR DRIVE AND AUTOMATICALLY REWIND RESERVE POWER UNIT.



**LIGHTING CONTROL DETAIL**  
NO SCALE

NOTE: PROVIDE MULTI POLE "LIGHTING" CONTACTORS, 30 AMP RATED CONTACTS, MECHANICALLY HELD, NEMA 1 ENCLOSURE, EQUAL TO SQ-D CLASS 8903/LXG SERIES WITH 2-WIRE CONTROL RELAY. LIGHTING CONTACTOR TO BE TIMECLOCK/PHOTOCELL CONTROLLED.

POLE	PANEL CIRCUIT
1	PN-1:3 *
2	---
3	PN-5:7 *
4	---
5	PN-9:11 *
6	---
7	PN-10:12 *
8	---

\* TWO-POLE CIRCUIT

**ADDENDUM #3**  
**04.23.2013**  
**ALTERNATE B**

PANEL PN		SERVICE	120/240V-1φ-3W	MINIMUM BREAKER AIC	22,000	
LOCATION		NORTH	RATING	100A M.C.B.	MOUNTING	
		RESTROOM PAVILION			SURFACE, NEMA-1	
LOAD DESCRIPTION	BKR	KVA	CT. NO.	KVA	BKR	LOAD DESCRIPTION
L-TREE UPLIGHTING LIGHTING	20	2	0.6	1 2	0.6	20 1 R-RECEPT
L-ROUND-ABOUT LIGHTING	20	2	0.6	5 6	0.0	30 2 O-SURGE SUPPRESSOR
L-FUTURE LIGHTING	20	2	1.0	9 10	1.0	20 2 L-FUTURE LIGHTING
SPACE ONLY	-	1	0.0	13 14	0.2	20 1 O-LIGHTING CONTROLS
SPACE ONLY	-	1	0.0	15 16	0.0	- 1 SPACE ONLY
SPACE ONLY	-	1	0.0	17 18	0.0	- 1 SPACE ONLY
				19 20		
				21 22		
				23 24		
				25 26		
				27 28		
				29 30		
				31 32		
				33 34		
				35 36		
				37 38		
				39 40		
				41 42		
TOTALS		2.2	2.2		1.8	1.6
SERVES		CONN. LOAD - KVA	D.F.	CALC. DEMAND - KVA		
LIGHTING		6.4	1.25	8		
RECEPTACLES - 1ST 10 KVA		.6	1.00	.6		
RECEPTACLES - ABOVE 10 KVA		0	0.50	0		
MECHANICAL		0	1.00	0		
EQUIPMENT		0	1.00	0		
APPLIANCE		0	0.75	0		
SPARE/SPACE		0	1.00	0		
OTHER		.8	1.00	.8		
TOTALS		7.8		9.4		

NOTES:  
PANEL DIRECTORY SHALL IDENTIFY POLE ID NUMBERS SERVED BY EACH CIRCUIT.

CALCULATED AMPS: 39

**ELECTRICAL NOTES:**

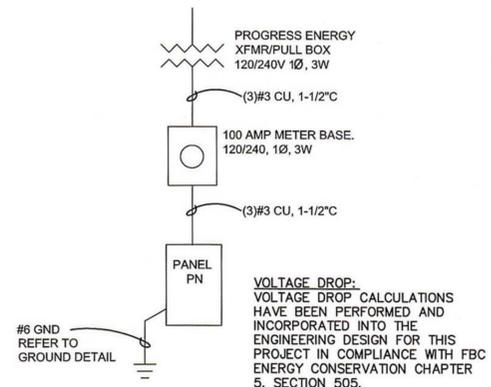
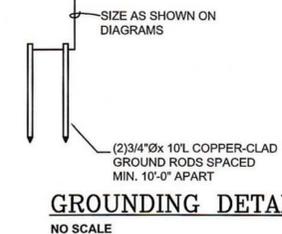
- GENERAL PROVISIONS:
  - GENERAL: PROVIDE ALL LABOR, MATERIALS AND EQUIPMENT FOR A COMPLETE AND PROPERLY OPERATING ELECTRICAL SYSTEM.
  - CODES AND STANDARDS: CONFORM TO THE REQUIREMENT OF ALL GOVERNING CODES AND STANDARDS, INCLUDING NATIONAL ELECTRICAL CODE. (2008 EDITION)
  - VISIT THE SITE OF PROPOSED PROJECT TO BECOME FAMILIAR WITH THE WORK. CONDITIONS AND NATURE OF WORK. PRIOR TO SUBMITTING BIDS. NOTIFY ENGINEER OF DISCREPANCIES OR OMISSIONS FOR INTERPRETATION OR DECISION AND SUCH DECISION SHALL BE FINAL.
- BASIC MATERIALS AND METHODS:
  - CONDUIT - INTERIOR WORK: CONCEALED ELECTRICAL METALLIC TUBING. IT IS ACCEPTABLE TO USE METAL CLAD CABLE (MC CABLE) IN LIEU OF RIGID METAL CONDUIT AS LONG AS THE INSTALLATION COMPLIES WITH ARTICLE 330 OF THE 2008 NATIONAL ELECTRICAL CODE. MC CABLE SHALL NOT BE USED WHERE SUBJECT TO PHYSICAL DAMAGE.  
EXTERIOR BELOW GRADE-SCHEDULE 40 PVC. EXTERIOR EXPOSED-SCHEDULE 40 RGS. DO NOT INSTALL PVC CONDUIT IN PATIENT CARE AREAS.
  - OUTLET BOXES: 4" X 4" STEEL W/PLASTER RINGS SIZED IN ACCORDANCE WITH N.E.C. FOR CONCEALED INTERIOR WIRING, CAST FERROUS OUTLET BOXES WITH INTEGRAL HUBS FOR EXPOSED AND EXTERIOR DEVICES
  - WIRE: COPPER, THIN /THWN DUAL RATED.
  - WIRING DEVICES - SPECIFICATION GRADE DEVICES AND PLATES WITH IVORY FINISH, EXCEPT MATCH paneled wall with devices and plates of similar color.
    - RECEPTACLES: 20 AMPS, 120V, 2 POLE, 3 WIRE, GROUNDING TYPE OR ISOLATED GROUND TYPE AS SHOWN ON DRAWINGS.
    - SWITCHES: 20 AMPS, 120/277V.
  - EACH MULTIWIRE BRANCH CIRCUIT MUST HAVE A MEANS TO SIMULTANEOUSLY DISCONNECT ALL UNGROUNDED CONDUCTORS AT THE POINT WHERE THE BRANCH CIRCUIT ORIGINATES. THIS IS TO BE ACCOMPLISHED WITH INDIVIDUAL SINGLE-POLE CIRCUIT BREAKERS WITH HANDLE TIES IDENTIFIED FOR THE PURPOSE, OR A BREAKER WITH A COMMON INTERNAL TRIP.
- LIGHTING FIXTURES:
  - FURNISH LIGHTING FIXTURES AS REQUIRED BY OWNER AND AS INDICATED ON DRAWINGS. FURNISH ALL NECESSARY MOUNTING HARDWARE AND LAMPS.
  - ALL RECESSED INCANDESCENT FIXTURES SHALL SATISFY THE REQUIREMENTS OF N.E.C. 410-65.
- PANELS:
  - ALL PANELS SHALL BE U.L. RATED AND OF THE SAME MANUFACTURER. PROVIDE SIZE AND TYPE AS INDICATED ON DRAWINGS. PANELS SHALL HAVE FULL SIZE NEUTRAL BUS AND 1/2 SIZE GROUND BUS.
- GROUNDING:
  - PROVIDE CONTINUOUS GROUNDING SYSTEM IN ACCORDANCE WITH N.E.C. SECTION 250, AND AS INDICATED. PROVIDE GROUND CONDUCTOR IN ALL RACEWAYS.
  - PROVIDE AN EXTERNAL ACCESSIBLE INTERSYSTEM BONDING TERMINAL FOR THE GROUNDING AND BONDING OF COMMUNICATIONS SYSTEMS (TELOC, CATV, SAT, ETC) AT THE SERVICE EQUIPMENT AND DISCONNECTING MEANS.
- IF, THROUGH ERRORS OR OMISSIONS, THE INTENT OF ARCHITECT/ ENGINEER WITH REGARD TO ANY DETAIL IS NOT CLEAR, OR IS CAPABLE OF MORE THAN ONE INTERPRETATION, SUCH MATTERS WILL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER IN WRITING BEFORE THE SUBMISSION OF BIDS, AND THE ARCHITECT/ ENGINEER SHALL MAKE CORRECTION OR EXPLANATION IN WRITING. OTHERWISE, NO EXTRA CHARGE WILL BE ALLOWED FOR THE WORK OR MATERIAL WHICH THE ARCHITECT/ENGINEER WILL REQUIRE, PROVIDED THAT IT COMES WITHIN A REASONABLE INTERPRETATION OF THE DRAWINGS AND SPECIFICATIONS.
- THE PLANS AND SPECIFICATIONS ARE INTENDED AS A GENERAL DESCRIPTION OF THE WORK TO BE PERFORMED. ALL ITEMS NOT SPECIFICALLY MENTIONED OR SHOWN, BUT NECESSARY FOR THE COMPLETION OF THE INSTALLATION, SHALL BE FURNISHED AND INSTALLED BY THIS CONTRACTOR. THIS CONTRACTOR SHALL THOROUGHLY ACQUAINT HIMSELF WITH THE MECHANICAL, ARCHITECTURAL, STRUCTURAL AND ELECTRICAL PLANS BEFORE SUBMITTING HIS FINAL BID. NO ADDITIONAL COMPENSATION WILL BE ALLOWED DUE TO THE CONTRACTOR'S FAILURE TO FAMILIARIZE HIMSELF WITH THE PLANS.
- INFORMATION SHOWN ON THE DRAWINGS AS TO THE LOCATION OF EXISTING UTILITIES HAS BEEN PREPARED FROM THE MOST RELIABLE DATA AVAILABLE TO THE ENGINEER. THIS INFORMATION IS NOT GUARANTEED, HOWEVER, AND IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE LOCATION, CHARACTER AND DEPTH OF EXISTING UTILITIES.
- COMPLETION REQUIREMENTS: RECORD DRAWINGS  
WITHIN 30 DAYS OF SYSTEM ACCEPTANCE, RECORD DRAWINGS OF THE ACTUAL INSTALLATION SHALL BE PROVIDED TO THE BUILDING OWNER, INCLUDING:
  - A SINGLE LINE DIAGRAM OF THE ELECTRICAL DISTRIBUTION SYSTEM
  - FLOOR PLANS INDICATING LOCATION AND AREA SERVED FOR ALL DISTRIBUTION.
- COMPLETION REQUIREMENTS: MANUALS  
WITHIN 30 DAYS OF SYSTEM ACCEPTANCE, AN OPERATING MANUAL AND MAINTENANCE MANUAL SHALL BE PROVIDED TO THE BUILDING OWNER TO INCLUDE, AT A MINIMUM, THE FOLLOWING:
  - SUBMITTAL DATA STATING EQUIPMENT RATING AND SELECTED OPTIONS FOR EACH PIECE OF EQUIPMENT REQUIRING MAINTENANCE.
  - OPERATIONS MANUAL AND MAINTENANCE MANUALS FOR EACH PIECE OF EQUIPMENT REQUIRING MAINTENANCE.
  - NAMES AND ADDRESSES OF AT LEAST ONE QUALIFIED SERVICE AGENCY.

**ELECTRICAL SYMBOL LEGEND:**

(NOTE: NOT ALL SYMBOLS SHOWN ON LEGEND ARE NECESSARILY USED ON FLOOR PLANS)

SYMBOL	DESCRIPTION
	EMERGENCY LIGHT FIXTURE
	WALL MOUNTED FIXTURE
	FLOOD LIGHT FIXTURE
	SITE LIGHT FIXTURE
	POST TOP SITE LIGHTING FIXTURE
	BOLLARD OR PENDANT LIGHT FIXTURE
	CEILING FAN
	SWITCH
	SWITCH, 2 POLE
	SWITCH, 3-WAY
	SWITCH, 4-WAY
	SWITCH - TIMER
	SWITCH - FAMILY LIGHT
	SWITCH - DIMMER
	DUPLEX RECEPTACLE
	SPECIAL PURPOSE RECEPTACLE
	DUPLEX RECEPTACLE, GROUND FAULT
	FLOOR MOUNTED RECEPTACLE
	DISCONNECT SWITCH
	MOTOR STARTER
	STARTER/DISCONNECT SWITCH
	JUNCTION BOX
	TIMECLOCK
	PULL BOX
	MOTOR
	TELEPHONE TERMINAL BOARD
	277/480V PANELBOARD
	120/208V OR 120/240V PANELBOARD

NOTE: SERVICE GND. PER N.E.C. AND SPECIFICATIONS.



PROJECT  
**INLAND GROVES ROUNDABOUT**

CLIENT  
**CITY OF CLERMONT**  
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REGISTRATION



ISSUE

MARK	DATE	DESCRIPTION
02.01.2013		30% CONST DOCS
02.15.2013		90% CONST DOCS
03.28.2013		95% CONST DOCS
04.16.2013		BID SET

KEY PLAN

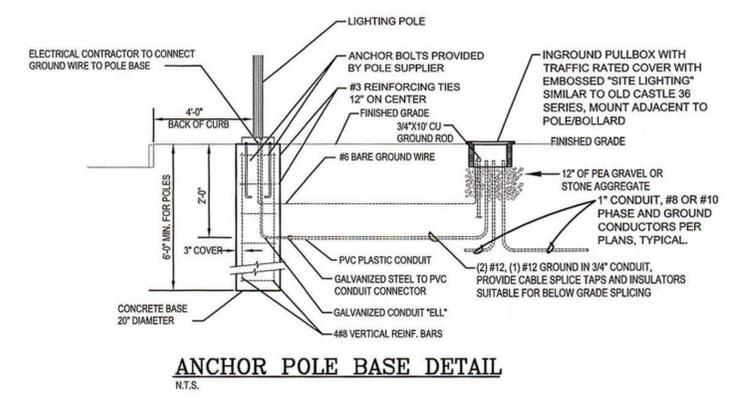
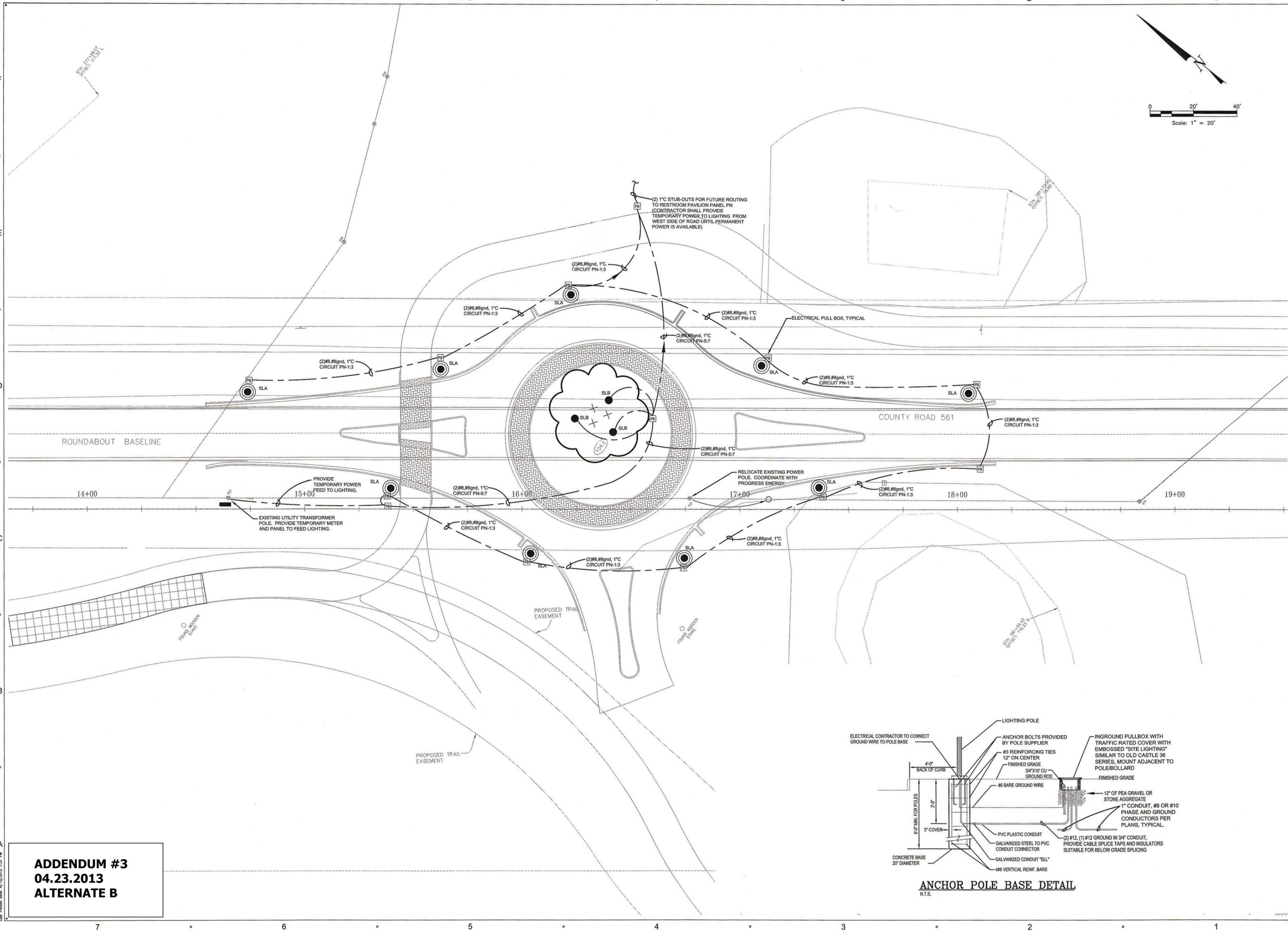
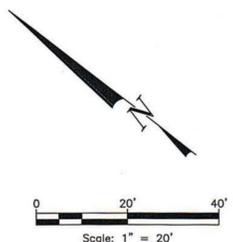
PROJECT NUMBER  
60284317

SHEET TITLE  
SYMBOLS, NOTES, DETAILS & DIAGRAMS

SHEET NUMBER  
EL-01



ISSUE	MARK	DATE	DESCRIPTION
	02.01.2013		30% CONST DOCS
	02.15.2013		90% CONST DOCS
	03.28.2013		95% CONST DOCS
	04.16.2013		BID SET



**ANCHOR POLE BASE DETAIL**  
N.T.S.

**ADDENDUM #3**  
**04.23.2013**  
**ALTERNATE B**

Filename: R:\ENGINEERING\DOCUMENTS\2012 PROJECTS\2228 - INLAND GROVES PARK\EL-02.DWG  
 Last Modified by: DARIUS D. ADAMS  
 Last Printed Date: 07/29/2013 7:37 PM

**South Lake Trail  
ENGINEERING ESTIMATE OF QUANTITIES (FOR INFORMATION ONLY)**

ITEM NO.	PAY ITEM DESCRIPTION		UNIT	QUANTITY	
	<b>Roadway</b>			<b>PLAN</b>	
101	1	MOBILIZATION	LS		
102	1	MAINTENANCE OF TRAFFIC	LS		
102	60	WORK ZONE SIGN	ED	1950	
102	71	14	BARRIER WALL, TEMPORARY, F&I, TYPE K	LF	300
102	74	1	BARRICADE, TEMPORARY, TYPES I, II, DI, VP & DRUM	ED	15760
102	77		HIGH INTENSITY FLASHING LIGHT, TEMPORARY, TYPE B	ED	15760
104	10	3	SEDIMENT BARRIER	LF	36221.
104	11		FLOATING TURBIDITY BARRIER	LF	234
104	15		SOIL TRACKING PREVENTION DEVICE	EA	5
104	18		INLET PROTECTION SYSTEM	EA	2
110	1	1	CLEARING & GRUBBING	AC	21.
120	1		REGULAR EXCAVATION	CY	7034
120	6		EMBANKMENT	CY	21439
120	72		GRAVEL FILL	CY	193.
160	4		TYPE B STABILIZATION	SY	32057.
285	704		OPTIONAL BASE,BASE GROUP 04	SY	27359.
286	1		TURNOUT CONSTRUCTION	SY	2077.
334	113		SUPERPAVE ASPHALTIC CONC, TRAFFIC C	TN	2303.
339	1		MISCELLANEOUS ASPHALT PAVEMENT	TN	13.
400	0	11	CONC CLASS NS, GRAVITY WALL	CY	194.
400	1	1	CONC CLASS I, CULVERTS	CY	9.
400	2	2	CONC CLASS I, ENDWALLS	CY	1.
425	1	521	INLETS, DT BOT, TYPE C, <10'	EA	0
425	1	541	INLETS, DT BOT, TYPE D, <10'	EA	1
425	1	551	INLETS, DT BOT, TYPE E, <10'	EA	1
425	175	41	MANHOLES, P-7, <10'	EA	1
430	175	118	PIPE CULV, OPT MATL, ROUND, 18" S/C	LF	542
430	175	124	PIPE CULV, OPT MATL, ROUND, 24" S/C	LF	0
430	175	212	PIPE CULV, OPT MATL, OTHER, 12" S/C	LF	153
430	175	218	PIPE CULV, OPT MATL, OTHER, 18" S/C	LF	254
430	175	236	PIPE CULV, OPT MATL, OTHER, 36" S/C	LF	0
430	984	125	MITERED END SECT, OPTIONAL RD, 18" SD	EA	4
430	984	129	MITERED END SECT, OPTIONAL RD, 24" SD	EA	0
430	984	621	MITERED END SECT, OPT/ELLIP/ARCH, 12" SD	EA	8
430	984	625	MITERED END SECT, OPT/ELLIP/ARCH, 18" SD	EA	4
430	984	638	MITERED END SECT, OPT/ELLIP/ARCH, 36" SD	EA	0
515	2	202	PEDESTRIAN / BICYCLE RAILING, STEEL, 54" PICKET RAIL	LF	565
519	78		BOLLARDS	EA	4
520	1	10	CONCRETE CURB & GUTTER, TYPE F	LF	153.
520	2	2	CONCRETE CURB, TYPE B	LF	951
522	1		SIDEWALK CONC, 4" THICK	SY	127.
522	2		SIDEWALK CONC, 6" THICK	SY	593
524	1	1	CONCRETE DITCH PAVEMENT, NR, 3"	SY	0
530	3	4	RIPRAP - RUBBLE, DITCH LINING	TN	1.
536	1	1	GUARDRAIL- ROADWAY	LF	438.
536	73		GUARDRAIL REMOVAL	LF	312.
536	85	22	GUARDRAIL END ANCHORAGE ASSEMBLY- FLARED	EA	2
550	10	220	FENCING, TYPE B, 5.1-6.0', STANDARD	LF	3798
550	10	929	FENCING, SPECIAL TYPE, 5.1-6.0', SPECIAL FEATURES	LF	313
550	60	223	FENCE GATE, TYPE B, DOUBLE, 12.1-18.0' OPENING	EA	1
550	60	224	FENCE GATE, TYPE B, DOUBLE, 18.1-20.0' OPENING	EA	2
570	1	2	PERFORMANCE TURF, SOD	SY	49029.
700	20	11	SINGLE POST SIGN, F&I, LESS THAN 12	AS	100
700	20	40	SINGLE POST SIGN, RELOCATE	AS	1
706	3		RETRO-REFLECTIVE PAVEMENT MARKER	EA	270
710	11	125	PAINTED PAVT MARK,STD,WHITE,SOLID,24"	LF	70
710	11	170	PAINTED PAVT MARK,STD,WHITE,ARROWS	EA	20

**South Lake Trail  
ENGINEERING ESTIMATE OF QUANTITIES (FOR INFORMATION ONLY)**

710	11	180	PAINTED PAVT MARK,STD,WHITE,YIELD LINE	LF	240
710	11	211	PAINTED PAVT MARK,STD,YELLOW,SOLID,6"	NM	0.28
710	11	224	PAINTED PAVT MARK,STD,YELLOW,SOLID,18"	LF	100
711	11	123	THERMOPLASTIC, STD, WHITE, SOLID, 12"	LF	955
711	11	160	THERMOPLASTIC, STD, WHITE, MESSAGE	EA	14
711	11	211	THERMOPLASTIC, STD,YELLOW, SOLID, 6"	NM	1.
1050	11	222	UTILITY PIPE, PVC, 4"	LF	60
			CONTINGENCY AMOUNT	LS	

ITEM NO.	Structures (Boardwalk)		UNIT	QUANTITY	
400	2	10	CONC CLASS II (APPROACH SLABS)	CY	16.
400	4	4	CONC CLASS IV (SUPERSTRUCTURE)	CY	174.
400	4	5	CONC CLASS IV (SUBSTRUCTURE)	CY	88.
400	147		COMPOSITE NEOPRENE PADS	CF	10
415	1	4	REINF STEEL (SUPERSTRUCTURE)	LB	67525
415	1	5	REINF STEEL (SUBSTRUCTURE)	LB	8957
415	1	9	REINF STEEL (APPROACH SLABS)	LB	2822
450	3	21	PRESTRESSED SLAB UNITS (60'X12")*	LF	1624
455	34	3	CONCRETE PILE PRESTRESSED (18" SQ.)	LF	1853
455	143	3	TEST PILES (PRESTRESSED CONCRETE)(18" SQ.)	LF	232
460	70	3	ALUMINUM RAILINGS (TRIPLE RAIL)**	LF	852
521	6	1	CONC PARAPET (PEDEST/BICYCLE)	LF	852
524	2	2	SLOPE PAVT CONC (4")	SY	168
			CONTINGENCY AMOUNT	LS	

ITEM NO.	Structures (Widening)		UNIT	QUANTITY	
110	3		STRUCTURAL REMOVAL OF EXISTING	LS	539
400	2	4	CONCRETE CLASS II (SUPERSTRUCTURE)	CY	34.
400	2	10	CONC CLASS II (APPROACH SLABS)	CY	5.
400	2	11	CONC CLASS II (RETAINING WALLS)	CY	10.
400	143		CONCRETE SURFACE CLEANING & COATING	LS	4849
415	1	3	REINFORCING STEEL (RETAINING WALLS)	LB	1962
415	1	4	REINFORCING STEEL (SUPERSTRUCTURE)	LB	10936
415	1	9	REINFORCING STEEL (APPROACH SLABS)	LB	622
460	70	2	ALUMINUM RAILINGS (DOUBLE RAIL)**	LF	180
460	70	3	ALUMINUM RAILINGS (TRIPLE RAIL)**	LF	180
521	6	1	CONC PARAPET (PEDEST/BICYCLE)	LF	180
530	3	3	RIPRAP - RUBBLE, BANK AND SHORE	TN	387
			CONTINGENCY AMOUNT	LS	

ITEM NO.	Alternate Trail Quantities		UNIT	QUANTITY	
1			CONCRETE, 6" THK, 4,000 PSI	SY	323
2			ASPHALT CONCRETE, SP 9.5, 1 1/2"	SY	1,131
3			6" LIMEROCK BASE (LBR 100)	SY	1,263
4			6" STABILIZED SUBGRADE (LBR 40), TYPE B	SY	1,874
5			SOD	SY	830
6			24" X 24" (R5-3) SIGN	EA	2
7			18" X 18" (R1-1) SIGN	SF	2
8			30"x30" (W11-2) SIGN	EA	4

**South Lake Trail  
ENGINEERING ESTIMATE OF QUANTITIES (FOR INFORMATION ONLY)**

9	18" X18" (W3-1) SIGN	EA	2
10	24" X 18" (D11-1) SIGN	EA	2
11	12" X 9" (M7-5) SIGN	EA	2
12	24" X 12" (W16-7P) SIGN	EA	2
13	TRUNCATED DOME PAVER BRICKS	SF	72

ITEM NO.	Alternate Roundabout Quantities	UNIT	QUANTITY
1	PAVEMENT MILLING 1-1/2" DEEP	SY	324
2	PAVERS	SF	2,825
3	CONCRETE, 6" THK, 4,000 PSI, WITH FIBER MESH	SY	276
4	CURB & GUTTER, TYPE D	LF	1485
5	CURB & GUTTER, MODIFIED TYPE RA	LF	263
6	CURB & GUTTER, MODIFIED TYPE F	LF	776
7	SUPERPAVE ASPHALT CONCRETE	TN	371
8	LIMEROCK, 10"	SY	1,538
9	LIMEROCK, 12"	SY	255
10	STABILIZED SUBGRADE, 12" THK	SY	1,238
11	STABILIZED SHOULDER, 6" THK	SY	246
12	6" PVC	LF	302
13	SOD (PERIMETER OF ROUNDABOUT / LANDSCAPED ISLANDS)	SY	3,199
14	TRUNCATED DOME PAVERS	SF	114
15	30"x30" ROUNDABOUT CIRCULATION (R6-5P) PLAQUE	EA	2
16	36"x36"x36" CONSTRUCTION YIELD (R1-2) SIGN	EA	5
17	48"x24" ROUNDABOUT DIRECTIONAL (6-4A) SIGN	EA	3
18	EXISTING ROAD DEMOLITION (COUNTY ROAD 561)	SY	646
19	18" MES, CONCRETE, ROUND	EA	1
20	PIPE CULVERT, RCP, 18"	LF	41
21	INLET, DITCH BOTTOM, TYPE C	EA	1
22	PAVEMENT MARKINGS, YELLOW/WHITE, STD	LS	1
23	SITE LIGHTING FIXTURE AND POLE, TYPE SLA	EA	9
24	LANDSCAPE UPLIGHTS, TYPE SLB	EA	3
25	ELECTRICAL PULL BOX	EA	12
26	1" CONDUITS BELOW GRADE WITH BRANCH CIRCUIT WIRING FOR LTG	LF	1200
27	TEMPORARY ELECTRICAL SERVICE WITH METER AND PANEL	EA	1
28	LIGHTING CONTROL CONTACTOR	EA	1
29	RELOCATION TREE	EA	1