OFFICIAL FILE COPY
CLERK OF THE BOARD
OF COUNTY COMMISSIONERS
MIAMI-DADE COUNTY, FLORIDA

Memorandum

MIAMI-DADE COUNTY

Date: June 3, 2008

To: Honorable Chairman Bruno A. Barreiro
and Members, Board of County Commissioners

Agenda Item No. 8(P)(1)(B)

Resolution No. R-657-08

From: George M. Burgess
County Manager

Subject: Work Order Approval Recommendation in the Amount of $38,001.88 between Florida Transportation Engineering, Inc. and Miami-Dade County for the People's Transportation Plan (PTP) Project Entitled Design of Traffic Roundabouts Along Old Cutler Rd at SW 87 Avenue and SW 97 Avenue, in Commission District 8 **(Project # 20060366)**

Recommendation

The attached Work Order Approval Recommendation between Florida Transportation Engineering, Inc. and Miami-Dade County has been prepared by the Public Works Department (PWD) and is recommended for approval. Proceeds from the Charter County Transit System Sales Surtax (the Surtax) will be used to fund this Work Order, therefore, approval by the Board of County Commissioners (BCC) and Citizens' Independent Transportation Trust (CITT) is required.

Scope

The two (2) traffic roundabouts to be designed under this subject contract fall solely within the boundaries of Commission District 8.

Fiscal Impact/Funding Source

The fiscal impact will be approximately $38,001.08 and will be funded from the Surtax. The proposed improvements qualify under the allowable work categories included in the PTP Neighborhood Improvements Section.

Delegation of Authority

No additional authority is being requested within the body of this contract.

Track Record/Monitor

PWD has reviewed the Office of Capital Improvement's database concerning Florida Transportation Engineering, Inc's performance and found that this consultant has carried out nine (9) County projects, seven (7) have been PWD projects and the remaining two (2) were completed for the Aviation and Parks Departments. The referenced database lists only the seven (7) consultant performance evaluations from PWD, all with above satisfactory ratings. Throughout all People's Transportation Plan (PTP) projects, the responsible staff person in PWD will continue to be the PTP Coordinator, Mr. Frank Aira, P.E. Following completion of the award process, the project will be assigned to David Hays, P.E., PWD Traffic Engineering, for day to day responsibilities.

The principal engineer for Florida Transportation Engineering, Inc. is Ravi Devaguptapu, P.E., PTOE. The primary office is located at 7955 NW 12th Street, Miami, FL 33126

Background

In an effort to accelerate the continued success of the PTP Neighborhood Improvements initiative, PWD is taking advantage of various contracting mechanisms, such as the Equitable Distribution Program (EDP) available under the supervision of the Office of Capital Improvements (OCI).

PWD staff determined that the scope of work for this project resides within the guidelines of the EDP. The EDP allows various County Departments to access a pool of available, qualified engineering firms for small projects. Specifically, the program is limited to design of projects with a construction limit of $1 million, or traffic engineering studies up to $50,000.00. An EDP consultant request form was submitted to OCI with the project scope, estimated cost and qualifying engineering categories. OCI provided three (3) firms from the EDP rotating pool which were qualified for the subject work. PWD evaluated each firm's project proposal, resumes and performance history. As a result of this competitive selection process, PWD selected Florida Transportation Engineering, Inc. for the project, with the stipulation that approval for the work orders must be obtained from the BCC and the CITT due to guidelines associated with the funding source.

The cost and time associated with the engineering services in this Work Order has been negotiated at $38,001.88 and 90 calendar days, respectively.

Assistant County Manager

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MEMORANDUM
(Revised)

TO: Honorable Chairman Bruno A. Barreiro and Members, Board of County Commissioners

DATE: June 3, 2008

FROM: R. A. Cuevas, Jr. County Attorney

SUBJECT: Agenda Item No. 8(P)(1)(B)

Please note any items checked.

_____ **"4-Day Rule" ("3-Day Rule" for committees) applicable if raised**

_____ **6 weeks required between first reading and public hearing**

_____ **4 weeks notification to municipal officials required prior to public hearing**

_____ **Decreases revenues or increases expenditures without balancing budget**

_____ **Budget required**

_____ **Statement of fiscal impact required**

_____ **Bid waiver requiring County Manager's written recommendation**

_____ **Ordinance creating a new board requires detailed County Manager's report for public hearing**

_____ **Housekeeping item (no policy decision required)**

_____ **No committee review**

Approved _____ Mayor
Veto _____
Override _____

Agenda Item No. 8(P)(1)(B)
6-3-08

RESOLUTION NO. **R-657-08**

RESOLUTION APPROVING A WORK ORDER IN THE AMOUNT OF $38,001.88 BETWEEN FLORIDA TRANSPORTATION ENGINEERING, INC. AND MIAMI-DADE COUNTY FOR THE PEOPLE'S TRANSPORTATION PLAN (PTP) PROJECT ENTITLED DESIGN OF TRAFFIC ROUNDABOUTS ALONG OLD CUTLER RD AT SW 87 AVENUE AND SW 97 AVENUE, IN COMMISSION DISTRICT 8 **(PROJECT # 20060366)**

WHEREAS, this Board desires to accomplish the purposes outlined in the accompanying memorandum, a copy of which is incorporated herein by reference,

NOW, THEREFORE, BE IT RESOLVED BY THE BOARD OF COUNTY COMMISSIONERS OF MIAMI-DADE COUNTY, FLORIDA, that this Board approves the Work Order in the amount of $38,001.88 between Florida Transportation Engineering, Inc. and Miami-Dade County for the People's Transportation Plan (PTP) Project Entitled Design of Traffic Roundabouts Along Old Cutler Rd at SW 87 Avenue and SW 97 Avenue, located within Commission District 8 (PROJECT – NO. 20060366) in substantially the form attached hereto and made a part hereof.

The foregoing resolution was offered by Commissioner **Carlos A. Gimenez**, who moved its adoption. The motion was seconded by Commissioner **Sally A. Heyman** and upon being put to a vote, the vote was as follows:

Bruno A. Barreiro, Chairman	**aye**		
Barbara J. Jordan, Vice-Chairwoman	**aye**		
Jose "Pepe" Diaz	**absent**	Audrey M. Edmonson	**absent**
Carlos A. Gimenez	**aye**	Sally A. Heyman	**aye**
Joe A. Martinez	**aye**	Dennis C. Moss	**aye**
Dorrin D. Rolle	**absent**	Natacha Seijas	**absent**
Katy Sorenson	**aye**	Rebeca Sosa	**absent**
Sen. Javier D. Souto	**aye**		

The Chairperson thereupon declared the resolution duly passed and adopted this 3rd of June, 2008. This resolution shall become effective as follows: (1) ten (10) days after the date of its adoption unless vetoed by the Mayor, and if vetoed, shall become effective only upon an override by this Board, and (2) either i) the Citizens' Independent Transportation Trust (CITT) has approved same, or ii) in response to the CITT's disapproval, the County Commission re-affirms its award by two-thirds (2/3) vote of the Commission's membership and such reaffirmation becomes final.

MIAMI-DADE COUNTY, FLORIDA
BY ITS BOARD OF
COUNTY COMMISSIONERS

HARVEY RUVIN, CLERK

By: **Kay Sullivan**
Deputy Clerk

Approved by County Attorney as
to form and legal sufficiency.

Bruce Libhaber

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MIAMI-DADE COUNTY
PUBLIC WORKS DEPARTMENT
PTP-Traffic Engineering
WORK ORDER FOR ENGINEERING SERVICES

To: FLORIDA TRANSPORTATION ENGINEERING, INC.

Date: 01/08/2008

For: Roundabout at Old Cutler and SW 87 and 97 AV

Project No: 20060366

EDP Project No: EDP-PW-20060366

Resolution No: R-667-03

Resolution Date: 03/27/2006

Work Order No: 1

PTP

Time for Completion: 90 Calendar days.

In accordance with the terms and conditions of Administrative Order No. 3-39, Resolution R-667-03, as adopted by the Board of County Commissioners on 6/14/03 and through the Equitable Distribution Program (EDP), you are hereby authorized to proceed with subject roundabout design of intersections.

The cost for these services is outlined in the agreed proposal dated 8-27-07 and is in accordance with discussions held with County staff. Accordingly, the total fee for this task is established at a not to exceed amount of $ 38,001.88. The time of completion expected is 90 days after the notice is given to proceed.

Work Order Amount: *** $38,001.88**

Funds Available: PTP

Index Code: CPEPTP108INT.99021 1/30/08 $38,001.88

Approval Path:

1/23/08		1-23-08	
Traffic Engineer Project Managers	Date	Traffic Division Chief	Date
		02/05/08	
Traffic Assistant Director	Date	Finance Review (Acct 2)	Date
2/5/08			
Finance Approval (Acct 4)	Date	PTP COORDINATOR	Date
2/5/08			
Public Works Director	Date		

E D P

Equitable Distribution Program

ASSIGNMENT AND AGREEMENT FORM

OCI Office of Capital Improvements — **Miami-Dade County**

Section I

User Department	Project Manager	Telephone Number	Date
PUBLIC WORKS DEPARTMENT	HAYS, DAVID	305-375-2078	10/31/2006
		Fax Number	
		--	

Project#:	EDP-PW-20060366	Title:	ROUINDABOUT DESIGN AT OLD CUTLER & SW 87 AVE & 97 AVE

Scope of Work

	Prime	Sub
Tech. Cert. Required	0302, 0306, 0309	
Initial Estimated Cost	$80,000.00	

Forward the completed Assignment and Agreement Form with a copy of the Service Order to OCI

Section II

Selected PRIME Firms

T.C. = 0302, 0306, 0309

Company Name	Contact Name	Phone#	Fax#
FLORIDA TRANSPORTATION ENGINEERING, INC	WALLACE HALL	941-639-2818	941-639-4851

Authorizing Representative	Signature	Date	Auth. Fees (Award)
Juan S. Calderon	[signature]	1/11/08	38001.88

Selected SUBCONTRACTING Firms

Section III

Name of Project Manager	Signature	Date
HAYS, DAVID		

Department Designee	Signature	Date
HASAN, MUHAMMED		

Please forward all information and questions to Elizabeth "Biba" Zabowski, OCI
biba@miamidade.gov **Fax** 305-350-6265 **Tel** 305-375-2824
111 NW First Street, SPCC, 21st Floor, Miami, Florida 33128

ESTIMATE OF WORK EFFORT AND COST - PRIME CONSULTANT

Name of Project: Design of Traffic Circles Old Cutler Road at SW 87 and 97 Avenue
County: Miami-Dade County
FPN:
FAP No.:

Consultant Name: Florida Transportation Engineering, Inc
Consultant No.: 206013
Date: 10/16/2007
Estimator: JC

Staff Classification	Total Staff Hours From "SH Summary -	Project Manager	SE	Eng	Cadd	Eng Tech	Clerical	Staff Classification 7	Staff Classification 8	Staff Classification 9	Staff Classification 10	Staff Classification 11	Staff Classification 12	SH By Activity	Salary Cost By Activity	Average Rate Per Task
		$47.54	$50.00	$34.91	$22.28	$17.00	$14.86	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00			
3. Project General Tasks	4	4	0	0	0	0	0	0	0	0	0	0	0	4	$190	$47.54
4. Roadway Analysis	34	3	2	7	20	1	1	0	0	0	0	0	0	34	$964	$28.37
5. Roadway Plans	64	6	3	16	35	2	1	0	0	0	0	0	0	63	$1,822	$28.93
6. Drainage Analysis	27	0	3	11	11	3	0	0	0	0	0	0	0	28	$830	$29.65
7. Utilities	6	1	0	2	1	1	0	0	0	0	0	0	0	5	$157	$31.33
19. Signing & Marking Analysis	14	1	1	4	6	1	0	0	0	0	0	0	0	13	$386	$29.84
20. Signing & Marking Plans	27	3	1	5	16	1	0	0	0	0	0	0	0	26	$741	$28.49
23. Lighting Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	$0	#DIV/0!
24. Lighting Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	$0	#DIV/0!
Total Staff Hours	201	20	11	50	103	11	2	0	0	0	0	0	0	197		
Total Staff Cost		$950.80	$550.00	$1,745.50	$2,294.84	$187.00	$29.72	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00		$5,757.86	$29.23

Check = $5,757.86

SALARY RELATED COSTS:			$5,757.86
Multiplier	3		$17,273.58
Subconsultant:	10%		$1,727.36
GRAND TOTAL ESTIMATED FEE PER CIRCLE			$19,000.94
SUB CONSULTANT GRAND TOTAL ESTIMATED FEE TASK		TWO CIRCLES	$3,454.72
GRAND TOTAL ESTIMATED FEE TASK			$38,001.88

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Design of Construction Plans for Roundabouts Old Cutler Road And 87 & 97 Avenue

Miami-Dade County

Public Works Department

Traffic Engineering Division

DBE

Responsible Office

2315 N.W. 107th Avenue
Bldg. 1M-29, Box No. 118
Doral, FL 33172

Contact Person

Juan S. Calderon, P.E., PTOE
(305) 463-8411
(305) 463-8744
jcalderon@fteinc.net

List of FTE Services

- Traffic Engineering
- Transportation Planning
- Lighting Design
- Land Development
- GIS
- Roadway Design
- Traffic Operation
- Signalization Design
- Construction Engineering Inspection (CEI)

December 12, 2006

Traffic Engineering Division
Mr. David W. Hays, P.E.
Miami-Dade County Public Works Departments
111 NW 1 Street
Suite 1510
Miami, Florida 33128-1970

Reference: Design Of Construction plans for roundabouts at Old Cutler Road and 87 & 97 Avenue
Request for Proposals – Professional Traffic Engineering and Consulting Services

Dear Mr. David Hays:

Our firm, Florida Transportation Engineering, Inc., (FTE), is extremely interested in being of service to Miami-Dade County on this project which involves Design of Construction Plans for Roundabouts at Old Cutler Road and 87 & 97 Avenue.

Our firm intends to work closely with Miami-Dade County in all aspects of this contract. FTE sincerely appreciates the opportunity to be considered for this important contract.

FTE is a corporation Organized under the laws of the State of Florida, on April 3, 1990. FTE has grown to a staff of 35 professionals, technicians and support staff. It has offices in Punta Gorda and Miami, Florida. The Miami-Doral office will be responsible for this particular RFP and all our staff will serve your county with local operating costs.

The Project Manager for this contract will be Juan S. Calderon, P.E., PTOE, Vice-President of the firm. Mr. Ravi Devaguptapu, P.E., PTOE, President of the firm and will serve as Senior Engineer and Quality Control supervisor. They in turn will be supported by the department managers, engineering, technical and administrative staff.

We will commit the resources necessary to complete the project in a timely and cost-efficient manner with sound results.

We look forward to being of service to Miami-Dade County Public Works Traffic Division.

Very truly yours,

Juan S. Calderon, P.E., PTOE
Vice President

QUESTIONS FOR CONSULTANT SELECTION

1. Please describe your experience (no. of years) of Project Management and/or staff in the following areas:

a. Intersection analysis and design
b. Design of roundabouts and traffic circles
c. Geometric Improvements
d. Drainage design
e. Traffic Calming
f. Traffic data analysis

Florida Transportation Engineering, Inc. (FTE), has the capability to complete the tasks identified within the Scope of Services involving the ***design of construction plans for roundabouts at Old Cutler Road and 87 and 97 Avenues*** with our staff. Therefore, FTE is not proposing any sub-consultants for this contract. The following is a brief summary of qualifications and experience of the key personnel selected for this very important work.

FTE's proposed project manager Mr. Juan S. Calderon, P.E, PTOE has over eight years working in traffic projects involving intersection data collection, analysis, design, drainage and implementation of traffic calming alternatives such as roundabouts and traffic circles in Miami-Dade County. He is also specialized in traffic/transit data collection, traffic and transit data analysis, mapping using Geographic Information System (GIS) platforms, as well as, roadway design software. Mr. Calderon's traffic operation and safety experience includes studies such as traffic calming analysis reports, pedestrian signal warrants, intersection improvement designs of bicycle facilities for cities and neighborhoods such as City of Coral Gables, City of Miami, as well as, the City of Miami Beach.

In addition, within FDOT traffic operations related contracts, he has participated actively in scoping reports, preliminary engineering reports, environmental documentation, development of alternative alignments, selection of typical section alternatives, signal warrants, corridor studies, simulation using CORSIM and SYNCHRO. Furthermore Mr. Calderon has been the task leader for multiple task work orders that incorporate, qualitative assessments, left-turn warrant analysis, crash analysis and benefit/cost analysis among others.

Ravi Devaguptapu, P.E., PTOE- Senior Engineer, QA/QC - Mr. Devaguptapu has over twelve years of experience in traffic safety studies (fatal crash reviews, high crash spot and segment reviews, skid reviews, qualitative assessments, signal warrants, RRR Safety Reviews, Pavement Condition Survey, DRC Reviews, etc.), traffic engineering, roadway, lighting and signal design. Mr. Devaguptapu has a Masters Degree in Transportation Engineering. He has provided traffic engineering services to Charlotte County. Mr. Devaguptapu is active in community safety issues. He has managed the District 6 Traffic Operations and Safety Studies Contract along with the District 1 D/W Traffic Operations and Safety Contract. Additional work experience included intersection

analysis, signal warrant analysis, crash analysis, level of service analysis, delay studies, speed studies, traffic counts, high crash spots and segments, night crash reviews, skid reviews, and various other safety studies. He has performed over 150 high crash spots analyses, segments, night crashes, and over 400 fatal crash reviews, in addition to numerous Qualitative Assessments, RRR Safety Reviews, Intersection and Arterial analysis.

Alex Sanchez, M.S., E.I., Project Engineer – Mr. Sanchez has three years of experience in projection and modeling of Truck Traffic Volumes at Interstate Permanent Automatic Traffic Recorders. He has conducted various types of traffic studies including traffic counts, vehicle classification, turning movement studies, speed studies, travel time, delay studies, parking studies, vehicle gap studies, and roadway characteristics inventories.

2. **Please give us the names of three (3) representative projects including elements shown above with their location and the agency (-ies) for which they were performed.**

Project Name: <u>City of Coral gables General Traffic Engineering Services</u>
This contract involved the traffic calming plan and implementation of traffic calming solutions around the city of Coral Gables. FTE's project manager participated in the roadway design, signing and pavement markings, drainage, traffic evaluation, and implementation of over 40 projects within the City of Coral Gables. This projects included traffic circles and roundabouts solutions at intersections like San Amaro at Mercado Avenue, Mendavia Avenue, and Dorado Avenue; Hernando at Minorca Avenue, Almeria Avenue, Alcazar Avenue and Navarre Avenue. Segovia Street at San Lorenzo Avenue and San Antonio Avenue among others. Additional tasks within this contract incorporated to review traffic calming warrant analysis, intersection LOS analysis, justification reports and public involvement.
Client: City of Coral Gables Public Works Department
Project Manager: Alberto Delgado, P.E.

Project Name: <u>City of Miami General Traffic Engineering Services</u>
Services: This contract involved the traffic calming plan and implementation of traffic calming solutions around the city of Miami. FTE's project manager participated in the roadway design, signing and pavement markings, drainage, traffic evaluation, and implementation of more than 100 locations where traffic circles and roundabouts have been installed along City of Miami. This projects included assessment of traffic calming master plans for *The Roads and Flagami neighborhood areas* within the city. During this project traffic calming measures at intersections like SW 2 Avenue at SW 28 Road, SW 4 Avenue at SW 29 Road, SW 5 Avenue at SW 22 Road and SW 28 Road, among others were installed. Other tasks within this contract incorporated to review traffic calming warrant analysis, intersection LOS analysis, justification reports and public involvement.
Client: City of Miami Capital Improvement Department
Project Manager Maria Lopez, P.E.

Project Name: **East Kendall Charrette**
Services: This project involved assisting Miami-Dade County urban Planning Department to determine possible traffic solutions in the East Kendall area in which major FDOT corridor like Kendall Drive, Galloway Road can be improved through mass transit projects in conjunction with traffic calming alternatives for minor streets. FTE was in charge to organize and present traffic calming solutions and recommendations in public meetings involving over 100 residents of East-Kendall.
Client: Miami-Dade County Urban Planning Department
Project Manager Mr. Shailendra Singh

3. **A topo survey will be provided to you for this project. Will you be able to complete the design of construction plans for both roundabouts within 30 days of receipt of the survey? A pre-designated subcontractor consultant that you will use will provide the conceptual design layout for the design of the two roundabouts at Old Cutler Road and 87 and 97 Avenues.**

YES. Florida Transportation Engineering, Inc will ensure that quality control, schedule, and safety are maintained on this project so that the County receives the best product in the most efficient, timely, and safe manner possible. The FTE Team understands these commitments and guarantees to provide the county with the most proficient staff for this request.

Design of Construction Plan
for Roundabouts
Old Cutler Road
And 87 & 97 Avenue

Miami-Dade County

Public Works Department

Traffic Engineering Division

JUAN S. CALDERON, P.E., PTOE.
PROJECT MANAGER

EDUCATION and TRAINING

Master of Science in Civil Engineering, 1999
Florida International University, Miami, Florida

Bachelor of Science in Civil Engineering, 1997
University Santo Tomas, Bogotá, Colombia

REGISTRATION

Professional Engineer, Florida No. 58569
Professional Traffic Operations Engineer No. 1301

EMPLOYMENT

Florida Transportation Engineering, Inc. 2005-2006

Marlin Engineering, Inc 1999-2005

Florida International University 1998-1999

PROFICIENCIES

- Traffic and Transportation Engineering
- Planning Engineering
- Traffic, Highway and Transit Data Collection
- Traffic and Transit Analysis
- Roadway Design Plataforms
- GIS
- Traffic Calming
- Simulation

PROFESSIONAL EXPERIENCE

Mr. Calderon has over eight years of experience in traffic/ transportation engineering with a Master Degree on those areas. Mr. Calderon has been involved in several traffic and planning engineering projects with the Florida Department of Transportation providing direct support in planning/ traffic projects for Districts 4 and 6. He is intimately familiar with traffic data analysis for traffic impact projects, traffic calming, street closures, and traffic safety studies. He is also specialized in traffic/transit data collection, traffic and transit data analysis, and mapping using Geographic Information System (GIS) platforms, as well as, roadway design software. Mr. Calderon's traffic operation and safety experience includes studies such as traffic calming analysis reports for City of Coral Gables, City of Miami, and City of Miami Beach.

Within District 6 FDOT traffic operations related contracts, he has participated actively in scoping reports, preliminary engineering reports, environmental documentation, development of alternative alignments, selection of typical section alternatives, signal warrants, corridor studies, simulation using CORSIM and SYNCHRO. In addition, he has been the leader for multiple task work orders that include multi-way stop sign warrant analysis, qualitative assessments, left-turn warrant analysis, crash analysis and benefit/cost analysis among others.

KEY PROJECTS

Miami Coral Park Senior High School, Miami-Dade County, Public Works Department.
Mr. Harvey Bernstein, (305) 375-2030
Districtwide Traffic Operations Studies, FDOT District 6.
Mr. Khalil L. Maarouf, (305) 470-5335.
Traffic Engineering Services, City of South Miami.
Mr. Subrata Basu, (305) 663-6344.
Traffic Calming Studies, City of Miami.
Ms. Maria Lopez, (786) 380-0734
City Wide Traffic Studies City of Coral Gables.
Mr. Alberto Delgado, (305) 460-5001.
Traffic Calming Studies, Village of Pinecrest.
Ms. Maria Porrata, (305) 234-2121.
City of Miami Beach Miscellaneous, City of Miami Beach.
Mr. Joseph W. Johnson, (305) 673-7514.
Districtwide Public Transportation Consultant.
Ms. Andrea Chao/Ms. Paola Baez, (305) 470-5333
Downtown Miami Circulation Study.
Lehman Center Florida International University
US1 Monroe County, General Origin-Destination Study.
Lehman Center Florida International University
City of Hialeah Pedestrian Safety Study.
Lehman Center Florida International University
Traffic Monitoring Sites Design and Professional Services, FDOT, District 6.
Mr. Ernesto Polo, P.E., (305) 470-5382
Districtwide General Transportation Statistics Consultant, District 4.-
Federal Functional Classification, FDOT, District 4.
Mr. Doug O'Hara, (954) 777-4653.
Bee Line and Holland Expressways Pavement Condition Verification, FDOT.
Mr. Ken Dunne, P.E., (941) 571-5280.
Flashing School Signal Design, Miami-Dade County, Public Works Department.
Mr. Vishnu Rajkumar, (305) 375-2090.
Traffic Signal Design, Miami-Dade County, Public Works Department.
Mr. Vishnu Rajkumar, (305) 375-2090; David Hays, P.E.
East Kendall Charrette, Miami-Dade Urban and Planning Department
Mr. Shailendra Singh, (305) 375-2476.

Design of Construction Plan
for Roundabouts
Old Cutler Road
And 87 & 97 Avenue

Miami-Dade County

Public Works Department

Traffic Engineering Division

DBE

RAVI DEVAGUPTAPU, P.E., PTOE
PRESIDENT
Q/C TASK MANAGER

EDUCATION and TRAINING

Master of Science in Civil Engineering, Arizona State University, 1994

Bachelor of Science in Civil Engineering, Jawaharlal Nehru Tech University, INDIA

FDOT Basic Highway Lighting and Electricity Course

FDOT FSUTMS Workshop - Basic Transit Travel Demand Modeling

FDOT FSUTMS Workshop - Basic Travel Demand Modeling

FDOT FSUTMS Workshop - Intermediate Travel Demand Modeling

FDOT FSUTMS Workshop - Advanced Travel Demand Modeling

FDOT FSUTMS Workshop - Calibration Workshop

Highway Capacity Analysis Workshop
TRAFNetsim Workshop

Work Zone Control Safety Certification - MOT Level II

OUATS Travel Demand Forecasting Workshop

Roadway Design Workshop

Traffic Signals Workshop

Developing Engineer Institute
QC Manager

REGISTRATION

Professional Engineer, Florida #53150

Professional Traffic Operations Engineer

EMPLOYMENT

Florida Transportation Engineering, Inc.
1994-Present President, Vice President, Senior Transportation Engineer

PROFESSIONAL EXPERIENCE

Mr. Devaguptapu is trained and experienced in the use of TRAF-NETSIM and HCS/HCM procedures and applications. He also has experience in the applications of several traffic operation software including SOAP 84, Signal 94, TRANSYT-7F, Passer II 90 and III 90, and TSPPD.

He has performed quality assurance/quality control reviews on various design projects including signing and pavement marking plans, lighting plans, signal plans, Maintenance of traffic plans, and roadway design plans. He has reviewed traffic count data, conducted collision analysis, signal warrant analysis, gap studies, delay studies, and travel time & delay studies. He has also assisted with qualitative assessments, conclusions, recommendations, and technical memoranda.

Managed several projects for the Department including District One Districtwide Traffic Operations Safety Contract, SR 776 Design, SR 7 Engineering and Design, Metro Parkway Lighting, and SR 60A Lighting.US 41 Safety Improvement Evaluation, Off-System Sidewalk Improvement Study, Aerial Survey for I-75, Turn Lane Feasibility Study at Bus 41at 21st Street, US 17 @ Regent Road Intersection Study, District Wide Crash Location Studies, District Wide Fatal Crash Review and Disposition Studies, District Wide Skid Hazard Review and Disposition, and In-house Support. The work performed on this contract has helped us to be totally familiar with the Traffic Operations Office staff guidelines, procedures, DOT mainframe computer system, and the filing systems. Analyzed 128 fatal crash reviews, six Qualitative Assessments, seven RRR Safety Reviews, three signal warrant studies, two intersection analyses, sight distance study, and two left turn signal warrant studies.

Evaluated and developed design traffic and 18-Kip ESAL reports. Collected existing data and prepared FIHS Action Plans and Corridor Designation Reports. Directly involved in the review, assessment, conclusions, and technical memoranda for SR 916 Access Management Study and SR 7 Scoping Report in District Six. In addition performed access management related services for SR 776 and Toledo Blade Access Management Study, D7 D/W Access Management Support, Bonita Beach Road Access Management Study and BF Industrial Park Access Management Review

Performed quality assurance/quality control reviews on various design projects including signing and pavement marking plans, lighting plans, signal plans, maintenance of traffic plans, and roadway design plans. Reviewed traffic count data, conducted collision analysis, signal warrant analysis, gap studies, delay studies, and travel time & delay studies. Assisted with qualitative assessments, conclusions, recommendations, and technical memoranda.

Worked as a Transportation Engineer Consultant for Charlotte County for a year reviewing transportation related issues. Responsibilities included site plan review, development review, access management issues, traffic impact and mitigation, design plan review, school zone ordinances, safety concern reviews, speed limit ordinances, and signalization determinations.

KEY PROJECT

Mr. Devaguptapu has Managed and/or is involved in several projects for the Department including:
District One Districtwide Traffic Operations Safety Contract,
SR 776 Design,
SR 7 Engineering and Design,
Metro Parkway Lighting, and SR 60A Lighting.
US 41 Safety Improvement Evaluation,
Off-System Sidewalk Improvement Study,
Aerial Survey for I-75, Turn Lane Feasibility Study at Bus 41at 21st Street,
US 17 @ Regent Road Intersection Study,
District Wide Crash Location Studies, District Wide Fatal Crash Review and Disposition Studies,
District Wide Skid Hazard Review and Disposition, and In-house Support.
Districtwide Statistics contracts for Districts One, Four, Six, and Seven. e Bonita Springs Traffic Circulation Study.
Lighting Justification Reports (LJR) for several projects,
Assisted or prepared several traffic signalization plans
Traffic Monitoring Site design.

Design of Construction Plan
for Roundabouts
Old Cutler Road
And 87 & 97 Avenue

Miami-Dade County

Public Works Department

Traffic Engineering Division

ALEX SANCHEZ, M.S. E.I.
PROJECT ENGINEER

EDUCATION and TRAINING

Master of Science in Civil Engineering, Specializing in Transportation Engineering, 2006
West Virginia University,
Morgantown, WV, USA

Bachelor of Science in Civil Engineering, 2000
Pontificia Universidad Catolica del Peru, Lima, Peru

CXS Roadway Worker Protection, Contractor Safety, Annual Certification, August 2, 2006

PROFESSIONAL AFFILIATION

Institute of Transportation Engineers

RECENT WORKSHOPS

AIMSUN NG, fully integrated software of traffic and transportation analysis use for transport planning, microscopic traffic simulation, demand and traffic data analysis.

32 hours training for FSUTMS, FDOT Transit Modeling, 2006

Florida Roadway Access Management, 2006.

Livable Communities, 2006.

EMPLOYMENT

Florida Transportation Engineering, Inc.
2006 – Present

PROFICIENCIES

- Traffic and Transportation Engineering
- Data Collection and Analysis
- Accident Analysis
- LOS Analysis
- FDOT In-house Support

PROFESSIONAL EXPERIENCE

Mr. Sanchez has experience in Projection and Modeling of Truck Traffic Volumes at Interstate highways using data collected through PATR and he has conducted various types of traffic studies including traffic counts, vehicle classifications, functional classification studies, turning movement studies, speed studies, travel time & delay studies, parking studies, vehicle gap studies, highway safety studies, LOS analysis, improvements of pedestrian/bicycle facilities, signal warrants studies, and roadway characteristics inventories.

KEY PROJECTS

District Four Districtwide Systems Planning – RCI
Mr. Dough O'Hara, (954) 777-4653
District Four Districtwide Traffic Counts
Mr. Dough O'Hara, (954) 777-4653
Coral Park Senior High School Traffic Analysis
Mr. Harvey Bernstein, (305) 375-2030
District Six, SW 8th St. Falling Weight Deflectometer Test Study
Mr. Ernesto polo, P.E., (305) 470-5382
District Six, NW 74th St. Functional Reclassification Report
Mr. Ernesto polo, P.E., (305) 470-5382
District Six, PD&A Scoping Reports for SR112, SR9, SR 934
Mr. Ernesto polo, P.E., (305) 470-5382
FDOT In-House support, District 6.
Mr. Ernesto Polo, P.E., (305) 470-5382
Signalization Improvements for Opa-Locka Airport. MDAD
Mr. Jose A. Ramos, (305)
East Kendall Charrette, Miami-Dade Urban and Planning Department
Mr. Shailendra Singh, (305) 375-2476.

OTHER PROJECTS

-March Westin Company, Morgantown, WV. Project Engineer, supporting topographic works in a new construction project. (2003).
-Amanco of Peru, Lima, Peru. Project engineer in the installation of HDPE pipe and geomembrane in mining and highway projects. (2002-2003)
-Ingenieria Celular Andina, Lima, Peru. Project Engineer in the expansion of Nextel Cell Site Projects in Lima-Peru (2001-2002)
-Design Project, Enhancement of Highway Design Connecting Two Cities. Highway design using Inroad and CAD software, signalization, draining, and pavement design. (2000-2001)

Miami-Dade County
Public Works Department
Traffic Engineering Division

Scope of Services for Roundabout Design

Scope

- Develop construction plans for roundabouts at Old Cutler Road (OCR) and SW 87 and 97 Avenues. A baseline and topo survey of the two locations will be provided by Miami Dade County (MDC).

Deliverable

- Using Mike Wallwork as a sub-consultant, develop a conceptual design layout for the roundabout at OCR and SW 87 and 97 Avenues. Meet with MDC Highways and Traffic Engineering for approval of the conceptual design layout.

- Develop final construction plans and Auto Cadd files for the roundabouts at OCR and SW 87 and 97 Avenues. Plans will include cover sheet, layout sheets, cross-section sheet, drainage sheets, signing and marking sheets, master billing quantitiy sheets, applicable detail sheet, and utility information and right of way sheets.

Time of Completion

- Construction plans must be completed within 30 days of receipt of the topo survey from MDC.

Project Contact

- All inquiries concerning this project are to be directed to Mr. Leo Ona at (305) 375-1909.

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All Departments | Find Projects With Search String ==>

Capital Improvements Information System

EDP Projects Report

Dept	Project	Title	Firm	PPE Ctr	Date	Contact	Amount
AV	EDP-AV-M043A	SIGNALIZATION IMPROVEMENT OPA LOCKA AIRPORT	FLORIDA TRANSPORTATION ENGINEERING, INC. (FTE)		6/22/2006	Flor C. Munoz R.A.	$50,000
PW	EDP-PW-20040597	FLASHING SCHOOL SIGNAL DESIGN GROUP 2	FLORIDA TRANSPORTATION ENGINEERING, INC. (FTE)		12/29/2004	Muhammed M. Hasan	$47,920
PW	EDP-PW-20040724	RIF TRAFFIC SIGNAL DESIGN GROUP 2	FLORIDA TRANSPORTATION ENGINEERING, INC. (FTE)		3/30/2005	David Hays	$100,000
PW	EDP-PW-20050049 P1	COUNTYWIDE PERMANENT STATION TRAFFIC COUNTS	FLORIDA TRANSPORTATION ENGINEERING, INC. (FTE)		4/13/2005	Muhammed M. Hasan	$50,000
PW	EDP-PW-20060366	ROUINDABOUT DESIGN AT OLD CUTLER & SW 87 AVE & 97 AVE	FLORIDA TRANSPORTATION ENGINEERING, INC. (FTE)		1/3/2007	Muhammed Hasan	$80,000
PW	EDP-PW-20070485-2	24 HOUR COUNTS	FLORIDA TRANSPORTATION ENGINEERING, INC. (FTE)		2/26/2007	David Hays	$50,000
PW	EDP-PW-20070504 B	TRAFFIC SAFETY STUDIES & COUNTS	FLORIDA TRANSPORTATION ENGINEERING, INC. (FTE)		4/24/2007	Muhammed Hasan	$50,000
PW	EDP-PW-CORAL PARK HS	TRAFFIC CONGESTION MITIGATION STUDY AT CORAL PARK HS	FLORIDA TRANSPORTATION ENGINEERING, INC. (FTE)		2/28/2006	Muhammed Hasan	$15,000
PW	EDP-PW-SW-120-ST-R2	TRAFFIC STUDY FOR OPERATIONAL IMPROVEMENTS	FLORIDA TRANSPORTATION ENGINEERING, INC. (FTE)		4/19/2006	Muhammed Hasan	$50,000
PZ	EDP-PZ-CP2006-2	EAST KENDALL AREA PLANNING	FLORIDA TRANSPORTATION ENGINEERING, INC. (FTE)		10/3/2006	Tom Spehar	$50,000
				Totals: 10			$542,920

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Capital Improvements Information System

Contractor Evaluations Report

Dept	Contract	Type	Contractor / Architect Name	Date	Rater	Period	Rate
PW	EDP-PW-SW-120-ST-R2	EDP	FLORIDA TRANSPORTATION ENGINEERING, INC.	4/4/2008	David W. Hays	Completion of study or design	3.8
PW	EDP-PW-20040597	EDP	FLORIDA TRANSPORTATION ENGINEERING, INC.	4/17/2008	David W. Hays	Completion of study or design	3.6
PW	EDP-PW-20070504 B	EDP	FLORIDA TRANSPORTATION ENGINEERING, INC.	4/17/2008	David W. Hays	Completion of study or design	3.7
PW	EDP-PW-20070485-2	EDP	FLORIDA TRANSPORTATION ENGINEERING, INC.	4/17/2008	David W. Hays	Project conclusion or closeout	3.8
PW	EDP-PW-20050049 P1	EDP	FLORIDA TRANSPORTATION ENGINEERING, INC.	4/17/2008	David W. Hays	Project conclusion or closeout	3.7
PW	EDP-PW-20040724	EDP	FLORIDA TRANSPORTATION ENGINEERING, INC.	4/17/2008	David W. Hays	Project conclusion or closeout	3.6
PW	EDP-PW-CORAL PARK HS	EDP	FLORIDA TRANSPORTATION ENGINEERING, INC.	4/17/2008	David W. Hays	Project conclusion or closeout	3.7

Evaluation Count: 7 Contractors: 1 Average Evaluation: 3.7

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